

ASIA PACIFIC FONDATION FOUNDATION ASIE PACIFIQUE OF CANADA

DU CANADA

## 2019-2020 -ANNUAL REPORT -----DIGITAL LEADERSHIP

## ANNEXES



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## ASIA PACIFIC FOUNDATION OF CANADA Work Plan 2020-2021



#### **Statement of Intent: Refocusing**

In 2020, the Asia Pacific Foundation of Canada (APF Canada, hereafter) will solidify its position as Canada's leading research centre working on Asia Pacific affairs. The Foundation will leverage its research to support Canadian governments and businesses in engaging more effectively with Asia Pacific countries and in Asia Pacific markets, while providing the Canadian public with the knowledge needed to address the unique opportunities and challenges unfolding in the region. APF Canada will further use its institutional expertise and diverse network to educate the next generation of Canadian Asia scholars and practitioners. The Foundation will also begin to develop a more robust business development model that optimizes funding possibilities, monetizes relevant and actionable research, and deepens engagement with both public and private sector partners in order to reduce APF Canada's endowment distribution to \$3.5 million over the year, with the aim to further reduce the distribution to \$3.25 million in 2021-2022.

This document outlines APF Canada's annual work from April 1, 2020 to March 31, 2021. The document covers the Foundation's research, its business development, and its communications plans. The authors have drafted this plan in line with the Five-year Strategic Plan (2020-2025) presented at the Board of Directors' meeting in November 2019 in Halifax. Fitting with the strategic plan, this annual work plan and its constituent parts support the first 'Refocus' stage (2020-2022).

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#### Approach

In refocusing its efforts, the Foundation has prioritized the development of an APF Canada 'brand' and the elevation of APF Canada's influence within the Canadian public and private sectors. Under the refocus phase, APF Canada will continue working to consolidate and refocus all efforts across **research**, **education**, **and networking** to:

- Further develop and promote APF Canada's research agenda/products and brand;
- Align activities within a set of strategic priorities with the highest impact;
- Build a research, business development, and communications structure that will support a more sustainable funding model to support these priorities; and,
- Ensure unity of effort throughout the Foundation.

The Foundation has been working to achieve these outcomes over the past year and believes an equal amount of time is necessary to complete this phase (2020-2021).

In particular, the Foundation has undertaken the following efforts to date:

- Refocusing APF Canada's strategic activities and efforts research, education and networks into six pillars: *Business Asia, Engaging Asia, Perspectives Asia, Sustainable Asia, Strategic Asia,* and *Digital Asia.*
- Developing pillar-specific research priorities and schedules, including two marquee publications per year, as well as monthly reports on related issue areas.
- Co-ordinating APF Canada's research publication schedule, with a monthly public event around product launches.
- Establishing cross-pillar research efforts to enable further depth, and to generate contract proposals.
- Consolidating the Foundation's co-op and study abroad activities under its Asia Connect program.
- Exploring expansion opportunities for the Asia Studies Curriculum project and the APEC-Canada Growing Business Partnership.
- Signing a memorandum of understanding with the Pacific Institute of Chile.
- Establishing and maintaining the 'Asia Watch' series moving from a news aggregation service to an analytical newsletter, disseminating 12 analytical pieces on the Asia Pacific per week (600 per annum).
- Convening events around topics of importance, such as the October 2019 Technology and Geopolitics conference and the January 2020 conference on the Free and Open Indo-Pacific.
- Exploring new avenues of revenue generation, such as subscription to data packages and consulting contracts.
- Refining strategies to broaden reach and impact, with more strategic development of event invitation lists and dissemination of research products.

These activities have enabled APF Canada to raise its profile on Canada-Asia research and analysis, and to increase its influence across its stakeholder network.

#### Work Plan

APF Canada leadership will establish a solid base of research staff and research products that can be strengthened and marketed throughout the coming years.

The below table outlines APF Canada's proposed research, education, and networking activities and outputs, together with key performance indicators.

REFOCUS (Year One: 2020-2021)		
<ul> <li>REFOCUS (Year</li> <li>RESEARCH: Regularized, impactful research of thus establishing a recognized APF Canada br</li> <li>Outcomes</li> <li>The Foundation will consolidate its research efforts around the six pillars of Sustainable, Digital, Business, Engaging, Perspectives, and Strategic Asia.</li> <li>The Foundation will develop pillar-specific databases to use for original, data-driven research and as a basis for consulting.</li> <li>The Foundation will expand its research products to include monthly actionable strategic research and quarterly net assessments around major trends in the Asia Pacific.</li> </ul>	effort around the six defined research pillars,	
<ul> <li>Conduct annual polling to gauge Canadians' perspectives on topics of importance within Canada-Asia relations</li> </ul>	<ul> <li>Indo-Pacific, marking the establishment of a Vancouver Asia Dialogues conference series.</li> <li>Conduct one legacy NOP and develop themes for two topical NOPs for the following year.</li> </ul>	

<b>EDUCATION:</b> Pursue further opportunities for the Curriculum project (both in B.C. and other provinces) and explore new opportunities within the <i>Asia Connect</i> program.		
Outcomes Key Performance Indicators		
• The Foundation will expand its current curriculum work into B.C. schools, adding new modules and continuing outreach efforts and teacher training, while also making inroads into other provinces, starting	• Increased number of project website hits and module downloads, as well as actionable contacts in provincial ministries, school districts, and teachers' associations.	

 NETWORKS: Evaluation of current secretariat activities to develop strategies to better

 leverage existing networks.

 Outcomes

 Key Performance Indicators

Outcomes	Key Performance Indicators	
<ul> <li>The Foundation will undergo a full stock-taking exercise of its ABAC, APEC, and PECC activities for the past five years with its entire research team and develop strategies to showcase research in appropriate fora.</li> <li>Host a successful ABLAC meeting with robust, actionable. recommendations to facilitate enhanced Canada-Asia business relations.</li> <li>The Foundation will also develop strategies to seek grant funding and partnership funding for its own research through these fora.</li> </ul>	<ul> <li>A research dissemination strategy utilizing the networks.</li> <li>A grant-funding strategy to identify appropriate funding sources through the Foundation's various networks.</li> <li>A successful ABAC III 2020 meeting including a successful research symposium led by the Foundation on the margins of this meeting.</li> <li>Generate and support five actionable recommendations at the ABLAC 2020 meeting.</li> </ul>	

The below table outlines APF Canada's business development and communications efforts to promote the above research, education, and networking products and activities.

<b>BUSINESS DEVELOPMENT:</b> Pilot new strategies for revenue-generation to find most efficient and effective options.		
Outcomes	Key Performance Indicators	
<ul> <li>Achieve full funding for marquee events and projects in phase one.</li> <li>Develop competency/briefing partnerships with existing organizations (ICD, OG100 etc.).</li> </ul>	<ul> <li>Solicit, engage, and steward range of supporters for all initiatives, with all sponsors satisfied with experience.</li> <li>Develop pipeline of 20 new prospects for funding.</li> </ul>	

<ul> <li>Canada website and develop marketing materials that outline options.</li> <li>Ongoing stakeholder engagement and consultation to understand needs.</li> <li>Host series of three flagship events per year (Vancouver Asia Dialogues, ABLAC and one other conference).</li> </ul>	Host, or make considerable progress towards hosting, five competency/briefing sessions with partner institutions. Content available on website; at least four marketing packs available. Develop grant finding strategy utilizing networks. Funding support for three flagship events: ABLAC, Vancouver Asia Dialogues, autumn conference/keynote event
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<ul> <li>Increase Asia Watch subscribers by 100 per cent by end of fiscal (to</li> </ul>
4,500)
• Increase website visits by 15%.
• Increase social reach and engagement
by 20%.
<ul> <li>Create/update publication and</li> </ul>
presentation templates reflecting a
unified brand across all projects.

#### Initiatives

Building on its research, education, and networking outputs and activities, APF Canada will refocus and strengthen its ongoing initiatives while developing additional initiatives to promote its activities and consolidate its networks and partners. Table 1, below, outlines the Foundation's ongoing initiatives. Table 2 outlines the Foundation's intended initiatives for 2020/21.

#### Table 1: Existing Initiatives

- APEC-Canada Growing Business Partnership: Government-funded, highly-replicable initiative to support micro, small and medium sized enterprises in Asia Pacific economies; exploring expansion into Nepal, Bhutan and Mongolia.
- Asia Business Leaders Advisory Council: Transpacific council convened annually; premier leaders supporting Canada-Asia business relations. High-value network.
- Asia Connect: program that encourages and facilitates co-op and study abroad opportunities in Asia.
- **BC Curriculum Project:** Asia Studies curricula in BC schools, in final phases. Potential to replicate across Canada. Currently initiating dialogues with NS, SK.
- **Grants program:** Supports research on Canada's relations with Asia, primarily through Junior Research Fellowships, Post-graduate Research Fellowships, and Distinguished Fellowships.
- Investment Monitor: Database of two-way investment flows between Asia and Canada.
- John H. McArthur Distinguished Fellowship: Endowed fund that supports an Asia Pacific thought-leader from business or academia to engage with the Foundation.

- Media Fellowships: Supports through APF Canada's Grants Program and partner Cathay Pacific airline two Canadian journalists to become better informed about the Asia Pacific in order to write and broadcast insightfully on Asia and the Canada-Asia relationship while promoting the APF Canada brand in high-value media.
- **Multinational Business Survey in Asia:** Inaugural perspectives research project in Asia, regarding economic engagement with Canada. Further polls anticipated every two years.
- National Opinion Poll: Flagship survey project surveying Canadians on issues of importance vis-à-vis Asia.
- Secretariat roles: APF Canada is the designated secretariat for the Asia Pacific Economic Cooperation Business Advisory Council (ABAC), the Pacific Economic Cooperation Council (PECC), and the Asia Pacific Economic Cooperation Study Center (APEC Study Center).
- Women's Only Business Missions to Asia: Government-funded series of business missions to Asian priority markets for women entrepreneurs. Facilitated Mission to Japan in April 2019. Additional Missions planned through 2023.

#### Table 2: Upcoming/emerging Opportunities

- **Competency partnerships:** Offering Asia 101+ training for public and private sector stakeholders, in partnership with existing networks or programs (e.g. Global Affairs Canada, Royal Roads University, and Institute of Corporate Directors).
- **Council for Security Cooperation in the Asia-Pacific (CSCAP):** Potential new secretariat role for APF Canada.
- **Database access:** Propose further databases similar to Investment Monitor; data available for a fee.
- **Micro-consulting:** Increased interest from stakeholders in having APF Canada conduct tailored research/analysis or provide tailored briefings for a fee. Recent requests from Consulate General of Indonesia, Calgary Economic Development.
- Vancouver Asia Dialogues series: Proposed annual flagship conference on timely topics in Asia, likely with a security focus – propose to leverage funding from the John H. McArthur Distinguished Fellowship fund to establish a John H. McArthur Academic Fellow who would be keynote guest at Dialogues, among other commitments.

#### Conclusion

In refocusing its research, education, and network efforts over 2020-2021, APF Canada will solidify its reputation within the country as the predominant research institution working on Asian affairs. The Foundation will prioritize its ongoing and future activities in line with the most significant issues in Asia, drawing on its weekly Asia Watch efforts to track active and emerging trends. Through refocusing, the Foundation will also limit its activities to reflect its resources, jettisoning, for example, projects or research efforts that are less than relevant from a regional context and to APF Canada's stakeholders and partners while strengthening research efforts that have clear impact. This refocusing will work in tandem with a new sustainable business development model that will allow the Foundation to reduce its endowment distribution by half a million in fiscal year 2020-2021 and three quarters in subsequent years, to \$3.5M and \$3.25 million respectively. Furthermore, APF Canada will also ensure purposeful overlap between its research, education, and network efforts so that all activities are mutually constitutive. This will enable the Foundation to ensure its research products, for example, inform its network outreach and development and that its work on education shapes its research priorities and network development.

Importantly, the Foundation's refocusing efforts are not a critique of its past work, most of which remains relevant for government, business, and societal understanding of Canadian opportunities in Asia. Rather, by refocusing, the Foundation will consolidate its work across a limited set of priorities to better achieve its full potential as a research institution in line with its existing resources.



# ARTIFICIAL INTELLIGENCE POLICIES IN EAST ASIA:

AN OVERVIEW FROM THE CANADIAN PERSPECTIVE



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## EXECUTIVE SUMMARY

Accelerated advances in computing and greater integration of the internet-along with the pullferation of big data - have eachied significant progress in the field of artificial intelligence (AI) during the past few years, relating the public of a discipline long relegated in the fringes. Many, especially in Asia, point in the DeepMind AI AlphaGo's victory over Lee Se-dul in the game of Go in 2016 as the watershed moment when the satigrist abilitied. The possibilities - and therefore faces - tied to advances in AI have started in dominate the public discourse. Tangible progress in a field that blues the between science fortim and waitry has helped fuel the faces and underscores the urgent need for intervention by policy-malars.

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As AI is relatively new key for people, it is challenging to talk about it, let alone create pullcies related to it. There are many unknowns and upcoming firsts in the regulation or governance of AI. In China, Japan, and South Koren, however, governments have begun creating AI policies in a comprehensive and committed manner. Thus East Asia provides excellent case studies for Considian policy-makers as they begin to grapple with the development, deployment, and regulation of artificial intelligence.

Underpinning this report is the fact that all three East Asian nations regard AI as a key factor contributing in their international competitiveness, and that they have all taken nation-wide measures to enhance their AI capabilities. The scope of their national AI strategies is broad, with ambitious goals for everything from AI research and development (R&D) to integration of AI in specific convenic sectors. This report provides a manced and detailed documentation of East Asia's AI agends. It is hoped that the report will provide useful case studies for the Government of Canada as it seeks inconstive ideas for expanding its two government of this disruptive technology.

More importantly, this report asserts that the Government of Canada must receptize AI as a space for geopolitical competition and act proactively and strategically. The emotivation of the AI policies in East Asia paints a familiar picture for Canadians: China is a major influencer in the space of AI, promising opportunities for Canadians, but engagement with China entails risks and difficulties arising from differing values. In a similar veite, Japan and South Korea remain reliable partners for on-operation for Canadians, with the potential for collaboration yet to be fully exploited. Canada punches above its weight in AI research, and China, Japan, and South Korea are looking in Canada in help boost their own talent and research capabilities. Today, AI is a space where Canada can exercise greater influence, with the potential in tale a leadership role in shaping norms of international AI governance.

Canada abraid, therefore, leverage its strengths and engage with these three East Asian countries in a strategic menner. It should participate in discussions on AI ethics and governance in positively contribute in the shaping of international norms, while building partnerships of likeminded metions to gain leverage in promoting uses of AI that align with Canadian values. As the technological becomes intertwined with the political, the perception of China as a threat to the Iheral world order continues to gain traction in the Al apace. Western liberal democracies have strengthened their rhetoric and policies in counter China's approach to Al, highlighting liberal values in their ethics gaidelines and policies. At the same time, China continues with its Al ageods and seeks to raise its international profile by becoming a norm-setter. Canada could play the role of the traditional "middle power" in facilitating constructive conversations, bridging the gap between China and the West. Menowhile, Canada has the opportunity in form allances with like-minded, relevant countries like Japan and South Korea in further increase its profile as a major player in international governance of Al.

As of July 2019, the trade was between China and the United States continues. This is accompanied by the United States' attempts to check the rise of Chinase high-tech firms, as exemptified in the White House and Department of Commerce orders in limit Chinase company Huawel's access in its U.S. vendors. The trade was underscores the greater role that technologies such as AI play in foreign policy index and brings attention to the need for the Canadian government to approach AI government on the global stage to a strategic and comprehensive manner.



In this content, this report explores the outload AI policies of these three East Asian countries to inform Canadian policy-makers and AI practitioners of the challenges and opportunities of a field that will som intersect with every aspect of our lives. The report first establishes the relevance of AI and AI policies in East Asia for Canadian policy-makers. Then, three subsequent sections investigate AI policies in China, Japan, and South Korea, focusing on the policies, talent management, and ethical, legal, and social implications (KLSI) of the technology. Finally, the last section synthesizes the analysis of AI development in East Asia and concludes with four broad recommendations:

Recommendation 1: Increase Canada's capacity to govern AI in a co-ordinated manner at different. Jevels of government.

Recommendation 2: Leverage Canada's Al inlent more effectively as part of "Brand Canada."

Recommendation 3: Proactively address emerging AI issues in trade and investment.

Recommendation 4: Identify Counda's place in emerging AI geopolitics and engage strategically.

## INTRODUCTION

It is an exciting time to be in the field of artificial intelligence (AI). Recent research breakthroughs and the transition toward a data-based society and economy have brought forth a guiden age for AL Every day, the media continues to circulate stories – often sensationalized ones – about AI and how it will revolutionize the way we live.

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However, contrary to public experimitions, AI will not dramatically change the world. Instead, it will make existing products and services faster and more efficient. AI does not exist on its own; as it is used today, AI is a program that is applied in existing hardware or services to maximize their efficiency-more similar to electricity than the T-800 from the film Terminator. But this means that AI, compresent like electricity, will influence- and already has influenced-most of what we do today, and this will have policy implications. AI presents the world with challenges and opportunities.

Particularly for Canada, this is a pivotal moment. During the late 1966s and early 1990s, at a time when AI was considered an interesting but impractical field, Canada invested in the field. Some of its institutions are now home to leading AI academics who are thriving in the field and attracting investments from tech giants like Amazon and Google. In the mid-2016s, the federal government invested C\$125M on a catimal AI strategy to further support research and attract talent, which contributed to bringing Canada to the top of the list for investors and companies seeking to leverage AI. However, the according transformations brought by AI pase new challenges to all stakeholdez: government, industry, and civil society.

Chine, Japan, and South Kozen's approach to AI provides important insights at this critical juncture for Canadians. Their governments have committed to comprehensive AI strategies that stretch beyond supporting research and development (R&D). These strategies point to opportunities for Canada in both its bilateral relations with these countries and in multilateral settings where Canada could take a leading role in driving the discussion/agenda around AI governance. Further, their strategies underscore the permethility and potential impact of the technology, which prompts us to think about our own approach in AI.

The objective of this study is in provide an overview of Chinese, Japanese, and South Korean Alpolicies, demonstrating their degree of commitment to not only research, botalau commercialization, deployment, and considerations of ethical, legal, and social implications (ELSI). This report also analyzes the differences between Canadian and East Asian policies, drawing out implications for Canada. In order to limit the scope of this study, policy discussions on privacy and data management laws are not included. This report represents an attempt to make sense of the new space and provide the foundation for more in-depth research in specific areas of AI governance.

This report adds in the existing literature by taking a more to-depth look at the national policies in the three countries, with the intent of finding Canadian implications. At the numerit, there are several reports that focus on domestic implications (e.g. forum of work) within Canada, or con-Canadian reports that focus specifically on China and threats to security. This report considers the region as a whole and provides comparative overviews while developing a greater analytical perspective on Canada's policy toward East Asia.

#### Structure and Methodology

The report is based on qualitative analysis of policy documents, reports, and media coverage, supplemented by interviews with relevant academics, policy-makers, and other practitioners in Beijing, Secol, and Tokyo. These interviews occurred primarily during the spring of 2018 and are complemented by additional conversations.

The first section explains the basics of Al policy. Case studies of China, Japan, and South Korea are then presented. Findings are analyzed in the final section, and policy recommendations are presented. Each case study features an analysis of the broader government policy on AI, the country's attempts to address AI R&D and talent training, and its engagement with AI KLSI through government policy. Based on the analysis of the three cases in East Asia, four policy recommendations for Conada are presented at the end.

#### AI 101



How do we define intelligence? Philosophers have dedicated substantial isomes to this task, but disagreement remains, which leads to even more questions about the nature of intelligence. The definition of *artificial* intelligence becomes even more challenging, particularly when the term is confinited with other closely associated technologies like robotics and 5G, although neither of these constitute on artificial intelligence.

There is no singular definition of AL Rven. Stuart Russell and Peter Norvig's leading textbook on AI, Artificial Intelligence: A Modern

Approach, eschews a singular definition, and instead lists four different definitions: thinking humanly, thinking rationally, acting humanly, and acting rationally.<sup>1</sup> Rousel and Norvig also note the interdisciplinary aspect of Al as a field, printing to philosophy, mathematics, economics, neuroscience, psychology, computer engineering, control theory and cybernetics, and linguistics as the intellectual foundations of the technology, which underscores the point that defining Al could be tantamount to tackling the personnal questions in the discipline of philosophy.<sup>2</sup> Ryan Calo states that Al is "an univella term, comprised by many different techniques," and other policy documents on the subject take similar approaches.<sup>9</sup>

For the purposes of this report, AI is simply defined as simulation of human intelligence through computers, matching referring is machine learning. Put simply, machine learning is a form of data

<sup>\*</sup>Rewall, Start and Pater Narvig. 2010. Artificial intelligence & median appendie. Opper Soldie River: Bontice Holl, p. 2. \*Ibid., p. 5-16.

<sup>\*</sup>Cuto, Ryan. 2017. Artificial intelligence policy: A primer and readourp. U.C. Davis Law Review. 51(2): 5.

analysis in which systems identify patterns and make decisions based on data to an automated manner. The theory itself is not new, but it took off in recent years due to the availability of big data and computing hardware capable of running these systems.

It abould also be noted that we are still very for from seeing an Al like the T-800 from the Terminator movie franchise or Andrew in Bicentennial Man because current Al programs are limited in performing specific tasks that they were designed for - that is, they are "nor row" Als. For instance, consider an Al program designed to play chess. A human may not be able to beat this program in chess, but this program will not be able to perform other tasks that we perform daily, such as figuring out the beat transit route to work or summarizing the contents of a newspaper article.

The opposite of narrow Al is artificial general intelligence, a system that is able in perform any task that a human being can. But experts in the field generally believe that this will not happen in the near future. Martin Ford, an author who has written on Al and robotics, asked 23 leading experts when we should expect to see the first artificial general intelligence, and the average timeline of the 18 who responded is 2090.<sup>4</sup> As such, at least for the near future, the use of Al will mainly complement, not sholar, humans or their intelligence.

This report focuses on the more immediate challenges emerging from greater integration of narrow. At join all aspects of our daily lives rather than issues surrounding artificial general intelligence.

#### Why an Al Policy?

If we are not concerned about the rise of a self-aware robut army, then why should we worry about AI at the policy level? It is because AI is a disruptive technology that will significantly affect the way businesses operate, as well as the larger society. According to a 2017 PwC report, AI is expected in provide a US\$15.7T boost to global grass domestic product (GDP) by 2030, which would be equivalent to adding approximately 10 Canadian economies to the global economy.<sup>3</sup> Especially for high-income, developed countries with technical capabilities, AI promises an opportunity for increased productivity. Today, there is consensus around the world that policy-mekers should support their respective AI research and industry to take advantage of the economic opportunity that AI presents.

However, this report argues that investment in Al policies is required out only for economic reasons, but also because of three brander challenges in the rapidly evolving field of AL

First, most countries lack the necessary infrastructure to further their Al ambitims. There is a worldwide Al talent shuringe, and major players in the private sector are racing to hire Al talent, from Silicon Valley in Beijing. According to a Tencent report, there are perhaps 300,000 individuals with Al expertise, while there is an immediate shuringe of 800,000 specialists in this field.<sup>6</sup> This challenge will require a government-level response in education and immigration policies. The problem of infrastructure also extends to data, the "fuel" of AL. The greater the amount of data available, the better Al can be engaged. Today, however, must countries have regulations that

<sup>\*</sup> Viscant, Jonas. 2018. This is when Alls top connections think ortificial general intelligence will be achieved. The Verge. <u>https:// www.theoregu.com/2018/11/27/10114267/vi.actificial general intelligence when achieved continuing and Real, M.</u> 2018. Architects of Intelligence. The treats almost All from the people building it. Realinghout Facht Reliabing.

<sup>\*</sup>ReinvatachemenCoopers. 2017. Sing the prime What's the real value of Al for your hashess and how can you expite in-? Instea Existence Coopers.

<sup>&</sup>quot; Tenzent Hanner & Institute, 2017. <u>BR AT 1910 A</u># (Elekslantikala) intelligence takent white paper). Heljing: Tenzent Hanner & Institute,

restrict data flow due to privacy concerns. As such, there is a need to reform existing regulations to allow the use of data, while ensuring the privacy rights of individual citizens.

Just as governments needed to create highways and establish rules of the road with the advent of the mass-produced automobile, so too do citizens and industry require the involvement of government to set up the basic infrastructure for an Al-driven economy in take full advantage of the new technology.

Second, AI turches ethical, legal, and social implications that will permente different sectors. The best publicized example is labour market disruption due to automation. According to McKinsey, as much as 30 percent of human labour could be displaced by AI by 2030." Further, AI turches potential threats to privacy rights, as well as the perpetuation and exacerbation of existing socioexmostic bissos. Economist Joseph Stigitize warms that AI could further deepen the gap between the rich and the pour." Experts in the field have raised concerns about the abuse of AI for malicinus uses, from new forms of scame to drone attacks." These concerns anderscore the need for greater state involvement in proactively adjusting regulations to promote R&D and dephyment, but also in prepare citizens for a society where AI is fully integrated.



Finally, AI raises potential challenges for state sovereignty. At the most basic level, integration of AI into weapons and weapon systems could change the nature of warfare. Rassian President Viadimir Putin recently said that "whoever leads on AI will raie the world." The policy debates surrounding the technology are now increasingly framed within the language of an AI race, which emphasizes the competition between nations for supremacy on AI technologies, akin to the arms race between the United States and the former Soviet Union during the Cold War.<sup>34</sup> At a more subtle level, AI could also challenge the ability of states in govern effectively. AI, due to its decentralized nature, is a difficult technology to regulate. It has the potential in further underative states through ELSI, such as mean unemployment or the dissemination of minimum time. As soch, AI pases threats in a state's sovereignty at different levels, which warrants a response from policy-makers.

<sup>&</sup>lt;sup>1</sup> McRimay & Company, 2017. John Just, john gehach What the feature of work will manufar john, abile, and wages. New York: City: McRimay & Company, <u>https://www.coldinary.com/featured-bailgits/feature-of-work/obs-lost-john-gehacd-what-tha-</u> feature-of-work-will-mean-featjohn-shifts-cod-wages.

<sup>\*</sup> Karinek, Astron, and Jumph B. Stights. 2018. Artificial intelligence and its implications for income distribution and wavespinyment. INSM Working Report No. 20174. Combridger Matimal Research Research. Instanch.

<sup>\*</sup>Parase of Homonity Institute, 2008. The codifions use of artificial intelligence forwarding, parametics, and mitigation. Oxford: Journe of Homonity Institute.

<sup>\*</sup>Suity, Katelo. 2018. All on change the behave of power. Barlin Rolley Journal. <u>https://barlinyalicyjournal.com/al-on-change-</u> the-behave-of-power/.

Policy-makers have become sware of the opportunities and chellenges that come with AI, and governments around the world have started announcing their AI strategies.

#### Where is Canada in the Al Space?

Canada was an early investor in Al research. During the so-called "Al winter," a period during the 1960s and 1990s when decreased interest in Al led to a drop in research funding. Canadian funding agencies continued to support basic Al research, attracting scholars from all over the world. As a result, Canada today is home to world-leading researchers and their teams. At a time when Al talent is in high demand, Canada's research capabilities allow it to punch above its weight.

To further leverage this advantage, the Government of Canada announced in 2017 that it would commit C\$125M for the next five years to further Canada's AI R&D and attract top-level talent in the country through the Pan-Canadian Artificial Intelligence Strategy, managed by the Canadian Institute for Advanced Research (CIFAR). The Strategy mainly addresses R&D and talent issues.

Further, there are various initiatives within the government that seek to address the advent of Al. Innovation, Science and Economic Development Canada (188D) launched the National Digital and Data Consultations to understand the Canadian public perception of data issues. The Standards Council of Canada is working to develop a national standard for ethical uses of Al as well. The Treasury Board of Canada has also been active in the Al space. In February 2018, Canada joined the Digital Seven, a network of governments sceleton to further integrate digital technologies in governance, and in July 2018 it created the first-ever Minister of Digital Government. In December 2018, the government also announced that it would collaborate with the French government on the International Panel on Artificial Intelligence, which will courses international Al Initiatives.

#### Why East Asian Al?

There are three key reasons why Canadians abould pay attention to East Asia's AI development.

First, China, Japan, and South Kurea offer examples of comprehensive and forward-hooking AI strategies that could provide lessons for Canadian policy-makers. The three East Asian governments have each formulated comprehensive national plans that promote AI R&D through facilitation of collaboration among policy-makers, academics, and industry stakeholders. Their plans also include strategic integration of AI juin their economies and societies with a long-term view.

Second, understanding East Asian Al development is crucial for Canada's future engagement in the region. Economically and politically, the three East Asian countries are important partness for Canada. China is Canada's second largest trading partner. Japan and South Koren are also key trading partners (fifth and seventh largest, respectively). They are also regarded as vital partness in Canada's multilateral desitogs and share similar pultical values. The national pulties in East Asian states demonstrate a clear commitment to transforming their economies and societies through AJ, which gives rise in new challenges in trade and diplomacy. Canada's continued engagement in Asia about be accompanied by a deeper understanding of the region's Al development.

Third, East Asian Al development underscores the emergence of an Al race and the need for Canada to identify its appropriate rule. An examination of Al development in East Asia suggests a global fracture in attitudes toward Al and the subsequent emergence of an Al race or Al geopolitics. The attitude toward Al in East Asia clearly demonstrates that Al development is regarded as a nationallevel project with implications to multiple areas of society. China, Japan, and South Korea regard AI development as a continuation of national development.

Combined with the cultural, social, and political factors that contribute to AI development, the consideration of AI as a national endeavour strongly suggests the emergence of AI as a space in foreign policy that could deepen existing splits in contemporary geopolitics. For instance, competition for securing AI talent and infrastructure between China and the United Status has already been described as a duopoly -a race between the two-especially as China's use of AI for social surveillance and military application has alarmed liberal, Western states, led by the United Status has large 'stock between' China and the United Status, sentiments that echo estating anxiety about their rule 'stock between' China and the United Status, sentiments that echo estating anxiety about China's rise in the region.

Canada has research capacities that allow it to perform well to the space of Al. Early investment to basic research has produced world-leading researchers in Al based in institutes at the University of Alberta, University of Toronto, and Université de Montréal, and has drawn investment from global ginots such as Google and Amazon in the country. The Government of Google lowched the Pan-Canadian Artificial Intelligence Strategy in 2017 to further develop its existing strengths in research and talent. As the technological becomes increasingly intertwined with the political, these strengths to research and talent provide Canada with a tool to broaden its options in foreign policy, which should be leveraged in a timely manner.



#### Government Policies

The Chinese Communist Party has clearly articulated a concrete vision for the rule of AI in its policy documents released since 2015. The latest Five Year Plan (2016-2020), which is China's principal, large economic strategy, released in 2015, articulated China's intent to invest and gain leadership in big data and "intelligent numerfacturing." Made in China 2025 consistently emphasized the need for China in upgrade its manufacturing sector by integrating emerging technologies (principally AI). As such, the Party had clearly identified the need in invest in AI for continued economic growth before the release of its AI-specific plans.

In July 2017, the State Council (the equivalent of the federal cabinet) released the Next Generation. Al Development Plan, a comprehensive strategy document that outlines China's ambition in became a world leader in both Al development and application by 2030 (see Table 1). The Plan is comprehensive in its scope, addressing issues of talent acquisition, funding allocation, safety frameworks, technology standardization, and ELSI.

#### Table 1: Short and long-term objectives of China's AI development

Year	Goals	Scale of Core Al Industry	Scale of Related Industries
2020	Catch up to other extinus in terms of Al research and application	ANNE 1508 (Cjailse)	FINE(1T {C\$276.28)
2025	Achieve major breakthroughs academically and be world-leading in application	RMB4008 (C\$81.38)	RMB5T (C\$1.016T)
2020	Baconia the world's primery Al imposition cantes	FMB1T (C\$208.28)	RMB10T (C)22.0221)

The Al Development Plan operates on four guiding principles.<sup>10</sup> First, it should be led by technology, in the sense that the policy-makers about be sware of the need to attain leadership to cattingedge Al technology. Second, the Plan about be implemented systematically, placing basic research, technological R&D, industrial development, and commercial applications within a single system. It is noted that the "advantages of the socialist system" should be used in support this systematic approach to Al development, which points in greater policy latitude available to the central government. Third, the implementation of the Plan about be driven by the market, leveraging

<sup>-</sup> The author cand the translation of the Pina proton in: China Copyright and Marile. 2017. A Mart Generation. Artificial Intelligence Development Pina (translation by New America). China Copyright and Marile. https://chinacopyrightmediancile. www.jacam.com/2017/07/2016-anti-generation-ortificial-intelligence-development-pina/.

the resources in the private sector. It highlights the need to fully definente the responsibilities of the government and the private sector in maximize the government's role in planning and guidance, policy support, security, regulation, environmental protection, and formulation of ethical guidelines. Finally, the Plan should follow the concept of open-source sharing and promote collaboration between industry, academin, research, and production units. It highlights the need to promote two-way conversion and application of AI technology for tivil and milliony uses, and the need in continue participating in global research.

Following the release of the Next Generation AI Development Plan, the Ministry of Industry and Information Technology released the Three-Year Action Plan for Promoting Development of a New Generation Artificial Intelligence Industry (2018-2020), which outlines more immediate guidelines for industry, government, and other stakeholders until 2020. The Action Plan highlights the importance of supporting research and entrepresentably in establishing a foundational AI industry, and specifies target AI products such as automousts whicles, medical imaging diagnostic systems, video and voice identification systems, smart home products, and intelligent translation systems. The Action Plan falls in line with and supports the Next Generation AI Development Plan within a narrower time frame.

It is necessary to approach these national policies in a nonneel manner that considers China's unique form of governance. In the West, where there is emphasis on the rule of law, the text of a policy is of utmost importance, and any kind of adjustment in policy requires appropriate process (i.e. legislative procedures). However, this is slightly different in China. The text of a policy is important in some degree, but policies and regulations can be bent following matual understanding between officials that such action is necessary to achieve greater guils. This can provide greater egility and fierability in addressing emerging technologies such as AI (this advantage comes with the cost of lack of democratic accountability or predictability, of course).

In this case, the greatest impact of the Next Generation AI Development Plan is the Party's explicit endorsement of the industry and the implicit understanding that it will be followed by policy support. Ultimately, the Plan functions out as a detailed bloeprint whose success is measured by congruence to its details, but as a general "wish list," according to Matt Sheehan of MacroPolo, a University of Chicago think task that analyzes the Chinese economy. Sheehan writes that this wish list signals the relevant physics – local government officials, private firms, academics – to deliver the items on it using their resources and ingenoity and promises the necessary policy support.<sup>22</sup>

Since the hunch of the Next Generation Al Development Plan, China has made great strides in this area by leveraging its unique policy strengths. In China, these national plans offer an opportunity for ambitious local government officials to make a name for themselves by delivering the items on the wish list. Fifteen out of 34 local governments had announced their own Al strategies as of October 2018. The projected size of the Al industry from the combination of the 15 Al strategies amounts in RMB4296 (C\$80.17E) by 2020, almost three times the national goal of RMB1506 (C\$30.5E), which underscoves the impact of the national directive upon local policies.<sup>10</sup>

The private sector has followed suit as well. The Chinese startup scene is notoriously competitive, and the nod from the government was quickly understood by ambitious entrepreneurs as an

<sup>&</sup>lt;sup>2</sup> Stanbar, Matt. 2018. How Chine's membre 41 plan actually works. MecorPain. <u>https://necorpain.org/dointe-analys-of-plan-</u> actually-works/.

<sup>&</sup>lt;sup>2</sup> Ding, Juliay. 2018. Latent Reliains for Al Substry (Data scorce). Some Qianshan Change Southering. <u>https://docs.google.com/</u> document/A/DEQS/jaTeoSugaQEye8a7D440.5gob/97264(Soch Blacksite).

opportunity in profit. Chinese startups received 48 percent of total global AI funding in 2017.<sup>36</sup> SecureTime, a Beijing-based facial recognition form, became the world's most vahiable startup at US\$4.5B, and its success would not have been possible without the government policy support.<sup>30</sup> Chinese AI research is guining more influence in academia as well, with the number of papers from Chinese researchers accepted by the Association for the Advancement of Artificial Intelligence conferences (the most prestigious in the field) more than doubling-jumping from 19 percent of papers to 23 percent-between 2012 and 2017.<sup>34</sup>

The Party has also taken further measures to maximize the efficiency of the private sector by organizing a National AI Team. More specifically, the Ministry of Science and Technology has designated tech giants such as Baido, Allaha, Teocent, and FlyTek to lead specific sectors of AL. For instance, Baido is responsible for autonomous driving. Allahab for smart cities, Tencent for health care, and FlyTek for voice recognition. The expectation is that the members of the National AI Team develop "open incovation platforms" on these key areas and thereby set the standards for each industry.<sup>39</sup> Forther, this has the effect of minimizing competition among large tech forms, which have shown the tendency to compete until they have edged each other out of the market.

#### AI R&D and Talent



The issue of Al talent is a major policy issue not only in China, but in the rest of the world. This is a marky area for examination, as it is challenging in define "Al talent." For the purpose of this report, Al talent does not merely refer to high-level Al scientists and engineers with graduate degrees, but also workers who are able to function to Al-integrated workplaces (such as smart factories).

That being said, the shortage of talent-as an inclusive term that stretches beyond PhD hulders-has been defined as a major challenge in China's Al ambitions. This has been explicitly indicated in China's ufficial Al policy

documents, including the Next Generation Al Development Plan, which notes that "cutting-edge talent for AI is far from meeting demand."<sup>20</sup> Tencent has also noted that the AI talent shoringe is a major policy issue and that there may be a deficit of up to five million qualified workers within a few years.<sup>20</sup>

<sup>&</sup>lt;sup>14</sup> Sooy, Jackin 2018. China's Al startups mand more funding than America's Instrume. MIT Technology Breiew. <u>https://www.</u> technologyerview.com/the-download/S20271 / thinas of startups accord-mano-funding-theo-americas-last-year/.

Same Time has going accors to findage from China's 170 million chand-circuit TV consens by partnessing with government, which is toos must the tochoology for anticlass values. Son Round, Jac. 2018, China's Same Time, the work's highest-valued Al startup, chans \$520M follow-on around. TechConach. <u>https://techconach.com/2018/05/80/www.mom-manay-for-aroutine-al-china/.</u>

<sup>&</sup>lt;sup>10</sup> Ding, Jeffrey, 2018. Desightering Chine's Al denote The context, components, capabilities, and consequences of Chine's strategy to lead the world in AL Chrise's Detors of Homosity Institute.

<sup>&</sup>lt;sup>17</sup> Goodekh, Jinany and Paul Telelo. 2018. Rose, ekilog a wave to fall starse about. New Amarka. <u>https://www.newsonatice.org/</u> cylicanovsky.initiation/lighthing/ciling-wave.fell starse.about/.

<sup>\*</sup> Soo the translation of the Next Grossetion. All Development Place https://doi.org/yelghtenber/fexture/group. som/2017/17/20/secret.governine.artificial.intelligence.dovelopment.plan/.

<sup>-</sup> Terratop. dt.

The Chinese government views addressing this talent shuringe as a priority. Even before the hunch of the AI Development Plan, the Chinese government had been proactive in recruiting international academic talent in acience and engineering through the likes of the Thousand Talents Program, which focuses on repairiating Chinese researchers working abroad. For ther, since the hunch of the Plan, all relevant physics involved in Chine's AI development have been racing to attract talent. For instance, the municipality of Beijing introduced an incentive program for top AI talent in March 2018 that offered RMB1M (C\$187,009) in cash prizes and a fast-tracked immigration process as perks.<sup>#</sup>

The private sector plays a key role in this space. Companies such as Baidu, Alibaba, and Tennent have been leveraging their financial resources in compete against other tech giants in the Silicon Valley and elsewhere to attract AI talent from around the world. Nick Zhang, president of the Washen Institute, said experienced AI researchers are being offered a salary of US\$1M or nume by major companies.<sup>10</sup> The combined efforts of the Chinese in this space seem to be yielding results. According to a Tennent report, the proportion of foreign AI talent in China increased from 5.2 percent to 7 percent between 2015 and 2017.<sup>10</sup> In addition, these companies have also established AI laba outside Chine, such as Baidu's driverless cars laboratory in the Silicon Valley or Tennent's AI research lab to Sentile.

However, in the long run, China's priority is in strengthen its own AI talent pool, and it has started investing in AI education at the national level. In April 2018, the Ministry of Education issued the AI innovation Action Plan for Colleges and Universities, which seeks in make Chinase research and academic institutions the leaders of AI innovation and training by 2030, in line with the goals of the Next Generation AI Development Plan.<sup>20</sup> Under this Action Plan, 16D AI specialization programs for specific domains (e.g. AI plus bealth care, AI plus transportation) would be created by 2020 through the development of 50 sets of world-class teaching materials, 50 national-level, high-quality online courses, and 50 AI institutes. By doing this, the Chinase government addresses the talent shortage in not only codemic research, but also in lower-level, technical applications in different sectors that seek to integrate AI.

Further, under this initiative, AI expert and venture capitalist Kai-Fu Lee's Sinovation Ventures, created in 2017 in offer AI talent in Beijing, partnered with the Ministry of Education and Peking University in develop a plan to educate at least 5,000 students and 500 tauchers within the next fire years. At the pre-university level, 40 high schools have trained up with SenseTime for the AI high school program, and there are reports of elementary schools introducing basic AI curricula in their students as well.

#### AI ELSI

For Conscients, China's engagement with Al from the HLSI perspective is a major concern. As a liberal democracy, the use of Al for social surveillance and militarization – sepecially with the explicit emphasis on civil-military technology transfer in China's official strategies – raises major

<sup>&</sup>lt;sup>20</sup> Lue, Januada. 2018. Beijing offers 1 million yana in cash incentivos, kong-teon wines and 'goon casf' to attora giabel taket. South China Monsing Rost, https://www.anap.com/tech/doine-tech/wildb/2120520/mijing-offers-lue-yana-cash-incentivo Ing-teon-size-and-goon.

<sup>&</sup>lt;sup>24</sup> Cynanold, David. 2018. China entrys the hottle for Al takent. Nature. <u>https://www.nature.com/articles/40.586-018-01604-6</u>.

<sup>\*</sup>See the anomary of the A1 Journation Action. Has far Colleges and Delousition <u>https://webline.com/spaceboolistics.</u> prin-aboutico-farme-on-ol-plane-3D-al-constant-by-2020-55896/35be701.

concerns. It also seemingly justifies the call to securitize Canada's digital assets with regards to China, as the United States has done by limiting access to U.S. research institutes and funding. This is an especially difficult topic of discussion, as it is layered with cultural and pultical differences between the two countries, amplifying the sense of anxiety and fear that has characterized the world's response to China's rapid rise to power. In this light, it is important to consider the different ways in which China approaches AI ELSI and identify areas where constructive engagements could be pursued.



First, it is true that China uses AI for social surveillance and military applications. It regards such applications of AI as directly relating in the maintenance of stability ("social harmony") and therefore is unlikely to yield in any compromise in this area. The government plays a clear rule as a client in acquiring key AI technologies for social surveillance. Since 2015, the Chinase government has been rolling out the social credit system, which rules citizens based on their behaviours within anciety. Hased on their ruling, citizens could be either panished (e.g. banned from public transit, denied loans) or rewarded (e.g. discounts on public bicycle rental fees, access to government loans). The program is expected in be rulled out nationally by 2020, and international expects have expressed concerns about the added surveillance capacity of the Chinese government and the potential implications for democratic institutions abrond as well.<sup>44</sup> In this light, it is difficult in Imagine China being receptive in international AI ethics guidelines or simulation's light, it is difficult in Imagine China being receptive in international AI ethics guidelines or simulation's Ethics Guidelines for Trastworthy AI.<sup>45</sup>

It is also important in coasider other approaches to AI BLSI in China. Indeed, the Party is using AI in a way that does not match the values of liberal democratic societies like Canada's –such as developing tools of social surveillance and allowing companies in access private data and test out AI products and services in a way that may jeopardize citizens' safety from the Canadian perspective. However, this does not mean that China is unsware of or indifferent to the potential dangers of AI, or that the Chinase people are passively accepting these filteral uses by the Party. Arguably, the opposite is true.

<sup>\*</sup> Hafman, Sananthe. 2018. Social coeffic Technology-coloural antimitation cantral with global consequences. Conference Antonian Strategic Policy Institute.

<sup>•</sup> Link to Monteial Declaration: <u>https://www.monteeableclaration-engonalideal.com/</u>.

<sup>•</sup> Liste in Guidelines for Transverties Di Litipo// a surges se finite ins/rs/si allows-consultation.

At the public level, there are concerns about AI KL51. Chinese citizens are aware of the potential dangers of AI, as shown in a March 2018 pull that indicated 76.3 percent of Chinese people saw AI as a threat to their privacy." Chinese consumers have been pushing back against misuse of private data by relating their concerns unline, as well as initiating invoutis. For the Chinese government, which greatly cares about its legitimacy, this is not an issue that it will merely diaregard to meet the economic targets of the Next Generation AI Development Plan; in fact, it regards itself as the key player in protecting the collective well-being of its citizens. For instance, the Ministry of Industry and Information Technology issued warnings to Baido, news platform Toutise, and unline payment platform Alpey for their misuse of personal data and ordered the companies to address the complaints from concerned citizens."

More broadly, the Next Generation Al Development Plan dearly states the need to develop a "security assessment framework" and adjust the educational system for its different to preparation for a more Al-dependent economy and society. The Standardization Administration of China's Al Standardization White Paper (March 2018) points to the government's commitment to addressing ELSI as stated to the Plan. The white paper highlights the importance of safety, ethics, and privacy issues. It also demonstrates an awareness that a standardization process that takes these issues into consideration is important in order for Chinase products to remain competitive in the global market, with no eye to setting the global standards on this technology.<sup>20</sup> In June 2919, the Ministry of Science and Technology issued Governance Principles for the New Generation Artificial Intelligence as well (see Table 2).

#### Table 2: Governments principles for the new generation artificial intelligence: Developing responsible artificial intelligence<sup>25</sup>

- Harmony and human-friendly
- Feirman and justice
- Inclusion and sharing
- Respect for privacy
- Safety and controllability
- Shared responsibility
- Open and collaboration
- Agila governance

<sup>\*\*</sup> Bassy, Real: 208. Almost 80% of Chinas concerned almost AI theat to privacy. Technols. <u>https://witamin.com/2014/RAD/almost.80.chinas.com/concerned.al.theat.gr/org-87.almody.fml.theat.work/.</u>

<sup>\*</sup> Datas, Chi. 2018. Baile, Alipay and Touties cans, advant to table supported privacy violations. GRT in m. <u>https://gittime.</u> com/faile.olipay.cod.toutiescom.ordeani.to.techie.comparted.privacy=cialations.

<sup>\*</sup> See the teachting of the White Report https://www.commerics.org/cylessecutivy-initiation/flighting/dog/teachting, surrepts-filmes-white-paper estilisied intelligence-store institution/.

<sup>\*</sup> See the transition of the principles http://www.chinadaily.com.co/v200306/17/175507/050-200306/17/250-200306/11/250-200306/17/250-200306/17/250-200306/17/250-200306/17/250-200306/11/250-200306/17/250-200306/17/250-200306/17/250-200306/17/250-200306/17/250-200306/17/250-200306/17/250-200306/17/250-200 

#### Condusion

The main takenway of this section is that China regards AI as a key technology for its national competitiveness, and it has been investing substantial resources to achieve its goal of becoming the global leader in AI - in both research and application - by 2030. Regardless of the quality of China's AI innovation, the government's announcement of the Next Generation AI Development Plan has made quite a spisah among the relevant stakeholders (private sector, academia, local governments) and also matche China. The perceived importance of AI for future national competitiveness, combined with the scale and speed of China's AI agenda, has generated contern and anxiety from the rest of the world, especially regarding China's scentingly illiberal application of the technology.



It is necessary to understand that China's Al ambitions are pursued in a comprehensive manner, one that does not really operate with the same clear demarcation between public and private that Canadians are familiar with. As stated in the Next Generation AI Development Plan, the development of Al in China allows technology transfer between civil and military uses. While it would be improdent to entirely securitize Canada's researchessets or businesses against China and cause engagement, it is necessary to critically approach Chinese investment in Canadian Al research instituizes or commercial deals. As such, China's whole-of-

the-nation approach must be taken into consideration and addressed commensurately in dealing with it on AI, whether it is on research collaboration or business engagement.

At the same time, the Government of Canada has an opportunity to positively influence China's use of this technology through smart engagement. There are no widely embraced international standards on the R&D and use of A1, and China has the ambition of being a norm-setter in this area. The relationship between China and the United States continues to become more frigid, and the Buropean Union has become increasingly word in integrating explicitly liberal values into its digital policies. In this context, there is an opportunity for Canada to play the rule of a middle power in finding prognaticareas of collaboration with China, such as in the development of ethics guidelines on data and AI technologies, eschewing more sensitive inpice such as social surveillance or military applications, and addressing non-political yet critical supects of AI regulation focused on safety. China's recent softening since on AI development and its call for international collaboration further suggests that there is such an opportunity for Canada.<sup>50</sup>

Overall, Canada must innest more resources in developing and implementing necessary measures to not only manage its domestic technology agenda, but also to manage its relations in the areas of foreign policy where technology and China are increasingly becoming more and more important.

- Knight, Will. 2008. China's leaden an arthroing their stans on AL. MIT Technology Leview. https://www.technologowinu. am/a/512341/thinas-leaden-am-calling-for-interactional-collaboration-on-a/.



#### Government Policies

Al is embedded within Japan's overall growth agenda, characterized by the vision of Society 5.9. Prime Minister Abe came to power in 2012 with an aggressive economic policy called Abenumics, characterized by measures designed to tackle economic singustion, which had been identified as a long-term problem stemming from fundamental issues such as decreasing productivity and an aging population. Prime Minister Abe was by pledging to address these problems.

in this content, the Japanese government coincil the concept of Society 5.0. This socio-economic vision aims in use emerging technologies – most notably, AI – in create "a human-centred society that balances economic advancement with the solution of social problems by a system that highly integrates cyberspace and physical space.<sup>300</sup> The concept was first introduced in 2016 through the Ministry of Education, Culture, Sparts, Science, and Technology (MEXT) in its fifth Science and Technology Basic Plan, Japan's five-year science and technology strategy.<sup>30</sup> Society 5.0 was further integrated into Japan's greater economic development strategy by the Council on Investments for the Fature in Japan's greater economic development strategy by the Council on Investments for the grail of realizing the visions of Society 5.0 and selected health care, mobility, distribution, smart cities, and financial technology as priority areas. Further, the Growth Strategy introduced the following objectives:

- Investment of government resources in strategic fields, leveraging Japan's strength;
- Development of data platforms for inter-connected utilization of data across different fields and provision of public data for private sector needs;
- Support for individual-focused adult education and strengthening of IT skills of citizens;
- Introduction of a "regulatory sandbox system"<sup>10</sup> in try out new ideas; and
- Linkage of the aforementioned measures to a wide range of regions, companies, and people.<sup>10</sup>

As part of realizing the visions of Society 5.9, the Cabinet created the Strategic Council for Al Technology to specifically address AI R&D and implementation. In this, the Strategic Council serves as a "control tower" for three main ministries relevant to AI: MEXT, the Ministry of Internal Affairs and Communications (MIC), and the Ministry of Economy, Trade, and Industry (METT).

Strictly 50. Cohinet Office. https://www.fl.com.go/philp/mglilh/nocirty/5\_D/induchtml.

<sup>&</sup>lt;sup>24</sup> Ministry of Reporting, Culture, Sports, Science and Technology – Japan. Japan's 5th Science and Technology Resic Plan. <u>http://www.mast.go.jp/ms/prilog/admon\_technology/framedylog/technology/framedylog/technology/framedylog/technology/framedylog/technology/framedylog/technology/framedylog/technology/framedylog/technology/framedylog/technology/framedylog/technology/framedylog/technology/framedylog/technology/framedylog/technology/framedylog/technology/framedylog/technology/framedylogy/f</u>

<sup>-</sup> Depictory configure refer to testing generals for combanizous markle that are not protected by correct regulation, or expervised by againtary institutions.

<sup>\* 2017.</sup> Council on Investments for the Jators. Prime Minister of Japan and His Cohinet. <u>https://japan.loutri.gr.jp/97\_abs/</u> actions/201705/90article5.html.

The Strategic Council m-ordinates policies within these ministries and sumetimes others, such as Ministry of Health or Ministry of Agriculture, when relevant. These ministries have also been responsible for national institutes that conduct relevant research on AI, such as the National Institute of Information and Communications Technology (NICT), the National Institute of Physical and Chemical Research (RIREN), or the National Institute of Advanced Industrial Science and Technology (AIST), which further gives them the ability in facilitate the government-industryacademia collaboration on AL.

The Strategic Council developed the Artificial Intelligence Technology Strategy in 2917, which outlines Japan's AI R&D and industrialization road map, with the objective of developing on AI industrial consystem by 2030. The Strategy has assigned three different research sectors for AI application (health care, productivity, and mobility) for each ministry. It has also assigned R&D agencies and private sector companies in pursue research objectives (see Table 3):

#### MIC MEXT METI National Institute of NEO Agendes National Institute National Institute of of Information and Physical and Chamical Advanced Industri Communications Research (RECEN) Science and Taolinology Technology (NECT) (ABT) Japan Science and Now Energy and Industrial Technology Technology Agency (JST) Dovelopment Organization (NEDO) Natural language Basic research and Application in industrial Al Research Area processing, speech infrastructure technology sectors translation, and brain information communication Health Care Revent Junior. Productivity Productivity · Making Mobility Health Care Health Case

#### Table 3: Structure of the Strategic Council

The Japanese government has thus developed a framework that strategically facilitates collaboration between academic, industry, and government that leverages Japan's strengths and resources, with the ultimate objective of delivering the vision of Society 5.0.

#### AI R&D and Talent

Japan's self-identified weakness in AI is the lack of talent. The White Paper on International Economy and Trade (2017) noted that there is a talent abortage of approximately S0,600 in the technology field, including AL<sup>®</sup> Professor Mitsura Ishizaka of the Cognitive Incornation Center (CK) notes that Japanese researchers are legging behind in the field of deep neural networks, stating that Japane is a follower when it comes to this technology.

<sup>•</sup> Ministry of Bouncey, Tesde and Endnetry - Japan. 2017. White Paper as Interactional Bouncey and Tesds. <u>http://www.anti.ga.jp/mgilab/aport/data/ap2017/ap2017.html</u>.



Major corporations lead AI RAD and talent recruitment in Japan, as they have the financial resources in attract AI talent. According in a Canadian official in Tokyn, while Japanese companies have been reluciant to look outside Japan thus for, the lack of talent in AI has made them more willing in collaborate with international partners. The Perspectives on Artificial intelligence/Robotics and Work/ Employment report by Artificial Intelligence Research for Human (AIR) notes that corporations have started biring foreign talent in address this gap.<sup>10</sup> The official, however, notes that most Japanese companies are

looking for access to foreign AI talent through the purchase of startups abroad or on a consulting basis, as opposed to hiring and bringing them to Japan. The Japanese private sector's interest in accessing Canadian AI talent is reflected in Fujitso's recent opening of its global AI headquarters in Vancouver, BC, in November 2018.

The government's commitment to promoting Al has had a positive impact on Al education, spurring collaboration between private and public sector entities. MEXT and METT have together created Al-related university programs, convering a national consultative body with pust-secondary institutions, the Japan Bostness Federation, and industry stateholders to address talent shortages and weaknesses in research.<sup>46</sup> Further, government ministries are collaborating closely with national research institutes and the private sector to advance research and application in the fields that they have been assigned. The Japan Deep Learning Association (JDLA) has leanched an Al certificate program, in which engineers and managers go through short-term training on Al fundamentals. Lastly, Japan Science and Technology Agency also offers JPY150M to JPY500M (C\$1.8M to C\$6M) worth of funding in the area of AI and big data, and PRESTO for Young Researchers provides JPY30M to JPY40M (C\$36D,0XD to C\$48D,000) for each three-year project for young, rising AI researchers.

#### ai elsi

Society 5.9 regards economic growth and solutions for social problems as inseparable. Thus, in addition to R&D and economic growth, Society 5.D includes Japan's approach in BLSI in relation to AI development. The Cabinet's commitment in BLSI is most notable in the establishment of the Advisory Board on Artificial Intelligence and Human Society.<sup>56</sup> The Advisory Board consists of 12 members from different academic backgrounds (humanities, social sciences, engineering, law, etc.) and is designed to advise the Cabinet on BLSI matters related to AI from an interdisciplinary perspective. The Board's Report on Artificial Intelligence and Human Society (March 2017)

<sup>\*</sup> Ministry of Rimstins, Calmer, Sports, Science and Tachardogy - Japan. Acceptable intelligence with Responsibility, Respective on Artificial Intelligence/Robotics and Work/Resplayment. <u>http://www.cost.go.jp/us/yolicy/usiance-tocknology/</u> Japan-Aylan/WinfR/Arta/III/1275211.htm.

<sup>&</sup>lt;sup>24</sup> Harris, Rud. 2017. Decemb Initia Consignments in artificial intelligence (41) in Japan and implications for Antonia. Dependences of Relations and Techning, https://interactionschutechine.gov.or/Interactional-astwork/pages/Sulleylightime Japan/Decements/AW-2016/520 Symp-Fillman art M-2016 in 6 (7)-2017 p3.

<sup>&</sup>lt;sup>24</sup> Inc., Axio. 2017. BAD-7 Regional Dynamics on A/IS Biblion Japan. The IEEE (Subal Initiative on Biblio of Antoneous and Intelligent Systems. <u>https://stanlash.lass.org/content/docs/ince-standards/stanlash/wb/doceasesis/athus/sals/2\_agional\_\_\_\_\_\_</u> appring IE

addresses concrete, imminent issues in multility, manufacturing, personal services, and communication from ethical, legal, economic, educational, anchil, and R&D perspectives. Parther, MIC organized the Conference toward AI Network Society in 2017, which convened approximately 40 members from academia, industry, and civil anciety. A subcommittee at the conference dufied AI R&D principles, an ethics guideline for researchers. It is clear that the Japanese government is attentive to groups uncorned about AI ELSI and provides apace for active discussions.

#### Table 4: AI R&D principles®

- Principle of collaboration: Developers should pay attention to the interconnectivity and interoperability
  of AI systems (principles mainly concerning mitigation of risks associated with AI systems).
- Principle of transposency: Developes should pay attention to the varifability of inputs/outputs of AI systems and the explainability of their judgments.
- Principle of controllability: Developers should pay attention to the controllability of AI systems.
- Principle of sufety: Developers should take it into consideration that Al systems will not have the blo, body, or property of users or third parties through notation or other devices.
- Principle of security: Developers should pay attention to the security of AI systems.
- Principle of privacy. Developee should take it into consideration that Aleysteins will not infringe on the privacy of users or third parties.
- Principle of ethics: Developers should respect human dignity and individual autonomy in R&D of AI systems (principles mainly concerning improvements in acceptance by users, etc.).
- Principle of user anistance: Developmen should take it into consideration that AI systems will support
  uses and make it possible to give them opportunities for choice is appropriate manage.
- Principle of accountability: Developers should make efforts to fulfil their accountability to stakeholders, including AI systems' users.

Lively discussions on Al HLSI have taken place in academia as well. The Japanese Society of Artificial Intelligence (JSAI) established its Ethics Committee in 2014. The Ethics Committee storted duffing a Code of Ethics in early 2016 and published the Japanese Society for Artificial Intelligence Ethical Goldelines in May 2017. The Goldelines, directed at Al researchers, stress the importance of being suare of their social responsibilities and maintaining effective communications with society (see Table 5).

#### Table 5: JSAI Ethical Guidelines\*\*

- Contribution to humanity
- Abiduous of laves and regulations.
- Respect for the privacy of others
- Principle of fairman
- Principle of security
- Acting with integrity
- Accountability and social responsibility
- Communication with society and self-development.
- Abidance of ethics guidelines by AI

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<sup>&</sup>lt;sup>4</sup> Ministry of Education, Calture, Sports, Science and Technology – Japan. Acceptable Intelligence with Dependiality, Respectives on Artificial Intelligence/Indolase and Work/Imployment. <u>http://www.most.go/p/w/prilcy/minut\_pcdmology/</u> Intendpion/Athent/10/1275011.htm.

There are also other groups, such as the JDLA and AIR. As such, there are foroms in Japan for interclasiplinery scholars in raise AI ELSI matters in policy-makers as large-scale domestic policies are foromated. AI ELSI continues to raise concerns around the world. In this context, Japan, a country with a great AI ambition, the technological capability in deliver it, and similar political values as Canadians, stands out as a promising partner in the area of international governance in matters of AI ELSI.

Japan has started mobilizing its resources to play an active role in shaping the international governmore of AL During his policy speech delivered to the National Diet on Japanary 28, 2919, Prime Minister Abs announced that Japan "will take the lead to establishing human-centred ethical principles for AL"<sup>44</sup> His administration has thus far followed through with this pledge. Japan has agreed to collaborate none closely with Canada and the European Union on AI during Prime Minister Abe's trips to April and May, with an emphasis on promoting "human-centric" uses of the technology.

#### Condusion

Strong, centralized lendership by the government underscores Japan's Al strategy. The policies that the Japanese government has colled out thus far make it very clear that it regards increasing its R&D capacities and integrating Al into its economy – particularly the menufacturing sector – a key priority within the national economic agends. The formation of the Strategic Council – the control tower – underscores the importance of the government support. The Council creates the space for key ministries – MEXT, METI, and MIC – in co-ordinate their Al policies, while also providing a forum for policy-makers, industry, and research in collaborate in creating the foundation for a new economy driven by emerging technologies such as Al.



The emphasis on AI within Japan's greater commute policy has aptiled over in the private sector in the area of talent. The government and the industry are keenly owere of Japan's lag in basic AI research, and they are looking at Canada in fill the gap. Japanese companies, known for their conservative attitude inward foreign workers, are now realizing that they need in work with those abroad in order in complement their weakness in AI research. Japan's capital and manufacturing capabilities could be effectively coupled with Canada's strength in AI basic research.

movement in Al KL51 again underscores the degree of importance that it has invested in Al. The fact that the government has invested in internal bodies such as the Advisory Board on Artificial intelligence and Human Society highlights the Japanese government's understanding that Al namest be confined to the realm of science and technology policy, but that of the greater national development policy. Further, Japanese Al HLSI bodies have been active in producing early and widely distributed Al ethics guidelines, with an eye to the international governance of the technology.

<sup>&</sup>lt;sup>44</sup> Cabinet Public, Bultetions Office, 2019, Rolley Sparsch by Peiner Minister Spinsor Alberto the 198th Sumion, of the Dist, <u>https://</u>japan.html.goi/988\_albeitstemant/201918./ (1919).html.

Overall, the zeriew of Japan's Al strategy demonstrates that Japan, like China, considers Al and its integration into the common as a priority within its national commic agends, and that it has been making use of its powerful government bureaucracy to spur the collaboration between policymakers, industry, and academia. Japan's strategy is comprehensive and co-ordinated, viewing Al as a key marker of global competitiveness for Japan to the world.



In this context, Japan stands as an attractive partner for collaboration in the space of AI. Canada's strength in basic research complements Japan's strength in manufacturing and application, as well as abundance of capital. Further, the alignment of values between Japan and Canada suggests that the two could also collaborate in the promotion of global AI governance. Being mindful of Japan's substantial commitment to AI, the Government of Canada should look in Japan for a like-minded partner.



#### Government Policies

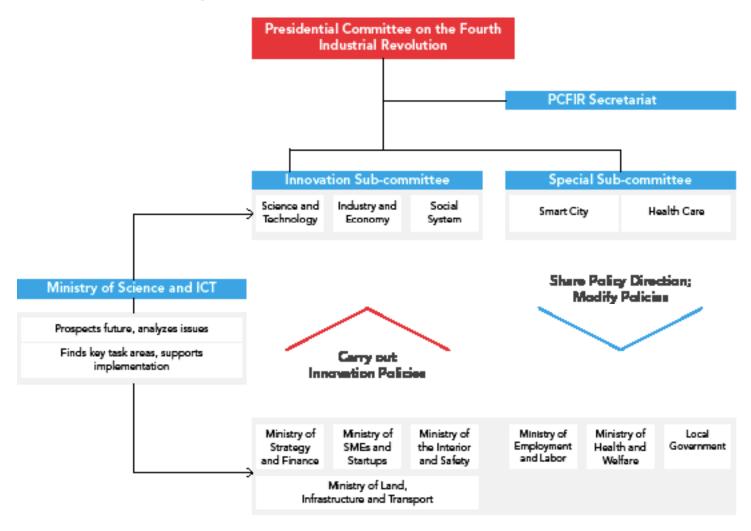
In 2017, the Ministry of Science, KT, and Fature Planning (now the Ministry of Science and KT) isonched the Mid-to-Long-Term Master Plan in Preparation for the Intelligent Information Society: Managing the Fourth Industrial Revolution. The policy document addresses R&D strategies and potential RLSI of greater use of AI and introduces a rund map for achieving the following goals:

- Build a world-class technological foundation;
- Promote intelligent industry<sup>®</sup>; and
- Revise existing social policies and regulations.

The document provides a framework for collaboration between technology, industry, and tivil society with a 30-year time frame. The Ministry of Science, KT, and Fature Planning was restructured in the Ministry of Science and ICT with the change of power in May 2017, and the Mid-to-Long-Term Master Plan has become outdated. However, the Plan reflects the South Korean government's basic approach to AI, which is re-articulated in more detail through the Presidential Committee on the Fourth Industrial Revolution (PCFOR).

Newly elected President Moon Jae-in established the PCFIR in November 2018. Operating under the motto "led by the private sector, supported by the government," the PCFIR features a raster of private sector leaders and academics alongside five ministers from relevant departments and the science advisor to the President, intalling 25 members (see Table 6). Approximately 30 staff members from the Ministry of Science and KCT support the day-to-day operations of the PCFIR.

#### Table 6: Composition of the PCFIR



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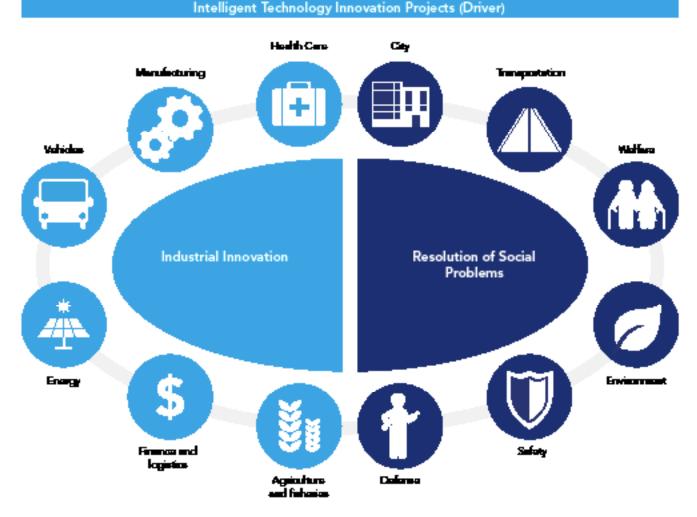
Similar to Japan's Strategic Cruncil for AI Technology, the PCFIR serves as a control tower for coordinating the government's policies on AI and other emerging technologies. More specifically, the nambate of the PCFIR is the following:

- Co-ordination of policy measures submitted by various ministries and the committee members;
- Organization of public comparison related in the fourth industrial revolution and encouraging public participation;
- Preparing the groundwork for regulatory and institutional reforms to support of publicprivate partnerships; and
- Fastering convisions for emerging industries.

The PCFUR's key document is the People-Centered Response Plan for the Fourth Industrial Revolution to Promote Innovative Growth, or 1-Kown 4.0 Strategy. The Strategy outlines a comprehensive national strategy that seeks to support R&D and deploy the technologies of the fourth industrial revolution. 1-Korea 4.0 parallels Japan's Society 5.0 in that both outline a comprehensive vision in which the technologies of the fourth industrial revolution are developed and deployed to support economic growth and solve social problems.

More specifically, I-Korea 4.D outlines the plan to promote intelligent technology inconstion projects in 12 different sectors (see Table 7); secure growth engine technologies; create industrial infrastructure and ecosystems; and make preparations for future social change entailing the use of disruptive technologies. In I-Korea 4.D, the PCFIR aggregates and co-ordinates proposed policies from relevant ministries, with the Ministry of Science and ICT taking the lead. The time frame for the Strategy is five years, from 2018 to 2022, and the Strategy lists concrete objectives for all 12 sectors.

#### Table 7: The 12 sectors in I-Koree 4.0



Super-Liferen 4.0 houldet

In June 2019, President Moon announced a manufacturing remissions strategy, which will inject RRW8.4T (US\$7.1B) in key industries such as non-memory chips, future multility, and biobealth technologies, as well as upgrade South Korea's manufacturing sector through integration of Al. The manufacturing remissionse strategy echoes Made in China 2025 in many ways, articulating South Korea's ambitum in not only maintain, but also enhance, its manufacturing competitiveness, striving to become one of the top four global exporters, as well as increasing the value-added ratio of the manufacturing sector from 25 percent to 30 percent by 2030.

The strategy is not a deviation from I-Koren 4.0; rather, it builds on I-Koren 4.0 as a blacquint and finishes out the details specifically within the monofacturing sector. In addition to the construction of 30,000 smart facturies outlined in I-Koren 4.0, the government will also support the development of 2,000 "Al facturies" by 2030. The process will also include the establishment of a data centre for smart factories and revision of existing laws to enhance the business controlment for the manufacturing sector. Further, the Ministry of Industry will take a lead in drafting an Al national strategy on manufacturing within 2019.



#### AI R&D and Talent

South Korean policy-makers and AI practitioners generally believe that their AI R&D sector is underdeveloped. A common refrain in policy documents and conversations held with AI experis in Korea is the fear of falling behind or the need to catch up to the rest of the world. The lack of AI talent is a major policy concern for South Korean policy-makers and the industry, which has prompted the introduction of the national AI R&D Strategy.

The PCFIR bunched the AI R&D Strategy in May 2018, investing KR902.27 (C\$2.668) until 2022 in acquire world-class AI technology, develop AI talent, and become one of the top four AI nations. More specifically, the AI R&D Strategy includes the following initiatives:

 Government-funded AI projects in public sectors (defence, health care, public safety) modelled after DARPA Grand Challenge competitions to the United States;

- Creation of six additional Algraduate programs and five Al R&D institutes for training 5,000 new Al specialists by 2022;
- Promotion of Al application in promising industries (e.g. pharmaceutical research); and
- Creation of an AI hab to provide data relevant to local entrepreneurs and industries.

Adding to the challenge is the disparity in resources between the unglomerates and small and medium-sized enterprises (SMEs). Startups and SMEs currently compete against multinational conglomerates (e.g. Samsung, LG) that are not only acquiring talent from within, but also from the rest of the world.

#### Table 8: Al research centres of South Korean Multinational Corporations

Corporate Al Research Labs	Year of Establishment	
Newsr Labs. Al	2015	
SK Telecom Al	2016	
Sumrung Al Contor	2016	
LG AI Lab	2017	
SK 1-Brain	2017	
Kakao Brain	2017	
Newsr Clove	2017	
Samsung SDS A	2017	
Hyundhi Niotani Al	2017	

South Known conglumerates have started looking abroad to access top AI talent around the world. Never (often referred to as South Know's Google) purchased XRCE in France to gain access to 80 top European AI experts. The conglomerates have also been active to Consda. Samsong opened its second North American AI Centre in Toronto in May 2018, following the launch of its AI lab in Montreal to partnership with the Université de Montréal's MILA (one of the three AI clusters) in September 2017. LG also established a partnership with the University of Toronto – home to the Vector Institute, another AI cluster – to set up an AI research lab.

#### AI ELSI

ELSI is integrated into South Kursu's bloeprint for its fourth industrial revolution policies. The PCFIR's objective of using cutting-edge technologies in boost economic growth and solve social problems makes it very clear that ELSI is a central concern for South Korea's lawmakers. I-Korea 4-0 specifically points in policies of integrating Al into bealth care, welfare, the controlment, and public safety. One of the PCFUCs three subcommittees is the Social Institutions Subcommittee, which is tasked with innovation of employment and welfare policies, educational reforms to fester creativity, legal and policy reforms in solve real social problems, and international and community relations.

One of the four pillors of I-Koren 4.D is to make preparations for future society. The PCFIR lists the following policy measures that fall within this pillar:

- Broadening of scope for employment insurance and strengthening of the social safety net for job retraining;
- Reflecting the changing nature of the work environment in ensure that workers in new industries are eligible for workers' compensation;
- Creating an ethics guideline for AI;
- Creating measures to ensure that these negatively impacted by AI have a legal basis for proper compensation; and
- Continuing to hold multi-stakeholder discussions through the PCFIR to create "social consensus" on the government's response to the fourth industrial resolution on labour, education, the social safety net, and ethics.

One of the signature events of the PCFDR is the Regulatory and Institutional Reform Hadrathon, which has been held 13 times since the lounch of the PCFDR. Modelled after sprint-like, intense work sessions among software engineers in the tech sector, the Hadrathon has brought together approximately 30 stakeholders from government, civil society, and the private sector for two-day workshops. The participants discuss multi-stakeholder issues, such as data and privacy rights, the data cloud, or the drune industry in an open manner, curated by professional facilitators. With an emphasis on consensus making, the participants create policy recommendations to the PCFDR, relevant ministries, and the National Assembly. The progress on their recommendations is reported in all participants quarterly. While not all of the discussions touch on AI, these backathons provide a model for bringing together relevant stakeholders and influencing pulky-making in a nimble, democratic namer.

Date	Themes
Carcanhar 2017	<ul> <li>Right to Sall-determination in Financial Information</li> <li>Improving Location Information Protection Law</li> <li>Improving Advanced Medical Equipment Regulation</li> </ul>
January 2018	<ul> <li>Improving Certification Systems</li> <li>Harmonizing Use and Protection of Personal Information</li> </ul>
April 2018	<ul> <li>Hermonizing Data Use and Protection of Peaconal Information</li> <li>Hermoting Data Information</li> <li>Hermoting Use of Cloud Computing in Public Sectors</li> </ul>
September 2018	<ul> <li>Innovation in Transportation Service through ICT</li> <li>Legalizing Shared Rentals for Korean Citizens in Urban Areas</li> <li>Improving Regulation of Combined Products in Health Care</li> </ul>
Nanch 2019	<ul> <li>Eliminating Regulatory Gray Zones Created by Increase of Personalized Temport</li> <li>Stimulating Food Inclustry by Improving Labelling of Nutational Functionality</li> </ul>

#### Table 9: Regulatory and Institutional Reform Hackathons

On the ethics front, the Ministry of ICT, in collaboration with the National Information Society Agency, released the Ethics Guideline for Intelligent Society in June 2018, as indicated by I-Korea 4.0. The Guideline builds on the principles of Secul PACT (Publicness, Accountshility, Controllability, and Transportercy) (see Table 19).

#### Table 10: Seoul PACT

Publicness: Intelligent information technology should benefit as many people as possible, and the economic benefits produced by the technology should be shared widely for the prosperity of humanity.

Associately the distribution of information on intelligent information technology and related services, and ensure that the distribution of information on unisty and protestion of user rights and other related movial duties is undertaken.

Controllability: Pre-emptively prepare responses to malfunctions of intelligent information technology and services, and ensure that user rights for choices be guaranteed as much as possible.

The superverse R&D and clasign should strive to reflect opinions of user, communer, and officiary diadous potential dangers while in use; and answe that personal information is processed appropriately.

#### Condusion

South Korea's rapid economic development following the rawages of the Korean Way has been referred to as the Miracle on the Han River and became a benchmark for developing nations around the world. The miracle was made possible through economic policies in which the government and private sector entities collaborated deasely with each other, taking a whole of the nation approach to economic and social development. The ratch-up mindset of the twentieth century is reflected in South Korea's approach to AI and, more broadly, the fourth industrial revolution. Like China and Japan, South Korea's approach at as a key driver of the next generation economy and therefore a national project, closely tied to its global competitiveness. As such, the government has taken measures to ensure that South Korea does not fall behind the rest of the world, dearly articulated in its goal of becoming one of the top four AI nations by 2022. Canada's C\$125M investment in its national AI strategy poles in comparison in South Korea's C\$2.66B investment in its R&D strategy, and even more so considering other policy measures taken within the PCFUC's generar agenda.



South Kores and Canada have strengths that complement each other. Experts have noted Canada's strength in basic AI research, a product of a long-term investment in its scientists; menowhile, South Korea excels in implementation and has hardware capacities through its strong manufacturing sector. South Knyes's emphasis on apgrading its manufacturing sector through integration of Alis consistent with the objectives of Chine and Japan, and also highlights the same opportunity for Canada: Canadian AI inlent and the East Asian partner's manufacturing capacity. The rash of South Korean conglumerates in Canada is a testument to this potential, and Canada should explore ways of harnessing this opportunity even further.



Finally, the examination of South Korea's approach in Al underscores the potential for collaboration between Canada and South Korea on the lasses of Al ethics and broader politics of Al governance. The South Korean government is aware of - and has taken policy measures through the PCEIR to act open - the potential ELSI of AI. When it comes to values, Canada and South Korea have more in common than not. Further, in light of the growing chasm between China and the United States, Canada and South Korea have the potential in collaborate clusely on advocating for the ethical use of AI at the international level.

## ANALYSIS & POLICY RECOMMENDATIONS

#### Analysis

This review of Al policies in East Asia soggests that all three governments regard AI as a transformative technology that is critical to their economic and ancial development. They regard the state as a key actor in delivering this AI vision, and thus have created comprehensive strategies that stretch beyond R&D and talent development to consider AI's integration into their economy and measures to address associated ELEI.

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Accordingly, they have created Al-specific builder, such as China's Al Plan Promotion Office under the Ministry of Science and Technology, Japun's Strategic Council for Al Technology; and South Koren's Presidential Committee on the Fourth Industrial Revolution, to co-ordinate Al-related endervoors of different ministries and facilitate a cohevent, long-term, national-scale plan of action.

These AI strategies create a framework in which a set of goals on AI development are outlined, and the private sector, with the policy support of the state, delivers them. More specifically, these strategies create a space where policy-makers, private enterprises, and academia can collaborate closely. South Korea's strong bureaucracy and co-ordinated policy-making allow the state to play the role of facilitator among different stakeholders. Given that AI requires not only advances in R&D and capital, but also adjustment of existing policies and regulations at the government level, this comprehensive, national approach to AI will facilitate a favourable environment for the East Asian states to move forward in the AI space.

Chine, Japan, and South Koren believe that they are legging behind in R&D and inlent development, and therefore have primitized these perceived deficiencies. They have exacted policies to address the aboringe of Al talent, by both creating education programs and attracting foreign talent. Their primite sectors are also aggressively recruiting and creating research centres abroad in access foreign. Al talent. In this, they have shown considerable interest in gaining access in Conside's AI ecosystem and talent.

Further, these government budies and plans point in their swarreness of BLSI resulting from increased deployment of AI. China's Next Generation AI Development Plan and South Korea's I-Korea 4.D address the need in both adjust social and legal institutions in place and adequately prepare their citizens in the long ron. Similarly, the Advisory Board in Japan has made recommendations on BLSI to the Caldnet through its Report on Artificial Intelligence and Human Society. All three East Asian governments display an awareness of the potential dengers of AI and a willingness to engage with the BLSI issues in both development and deployment with a long-term perspective.

Al development in each of the three states is considered a national project. The strategies of each country conform to the developmental state theory, which explains the past success of Bast Asian states in achieving rapid economic growth by appending to the nationalist rheturic that they



are falling behind the rest of the world and thereby justifying significant state involvement in commonic planning.<sup>44</sup> With the rise of AI geopolitics, therefore, it is important to understand that AI development is regarded as a national project, and Canada's engagement in this space – whether the objectives are to promote trade or address national security concerns – requires a more comprehensive approach, especially with a technology like AI, which hiers previously set sectoral boundaries.

Finally, on values: it is important to understand that substantive discussion on Al ethics will have to go beyond broad statements featured in respective ethics guidelines. Table 11 demonstrates that ethics guidelines from the three East Asian states and Canada do not deviate much from each other. These guidelines share the idea that Al must be used for some sort of greater good, and that it must be used in a way that is safe, transparent, or responsible. From a broader putot of view, the difference lies in the specific social, economic, political, and caltural context in which Al systems are deployed. This difference is an implicit premise of this report.

\* San Leitwich, Adelan. 1995. Reinging politics back in: Towards a model of developmental state. The Januard of Development Station. 31(3).

Table 11: Con	perison of	ethical ;	guidelines
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Key Themes	Canada (Montreal Declaration)	China (Principles of Next Generation Al Governance)	Japan (JSAI Ethical Guidelines)	South Korea (Seoul Pact)
Printery	<ul> <li>Privacy and intimacy</li> </ul>	+ Respect for privacy	<ul> <li>Respect for the privacy of others</li> </ul>	
Justice	<ul> <li>Equity</li> </ul>	<ul> <li>Fairness and justice</li> </ul>	<ul> <li>Principle of fairness</li> </ul>	
Safety	+ Pruchano	* Safaty and controllability	<ul> <li>Principle of security</li> </ul>	+ Controllability + Transportancy
Responsibility	<ul> <li>Responsibility</li> </ul>	<ul> <li>Shared responsibility</li> </ul>	<ul> <li>Acting with integrity</li> <li>Accountability and social responsibility</li> </ul>	<ul> <li>Accountability</li> </ul>
Sodaiy and Gananama	<ul> <li>Solidarity</li> <li>Democratic participation</li> <li>Diversity inclusion</li> <li>Sustainable clovelopment</li> </ul>	<ul> <li>Inclusion and sharing</li> <li>Agile governments</li> </ul>	<ul> <li>Abidence of lease and argulations</li> <li>Communication with society and self- clevelopment</li> </ul>	4 Publicmenn
Human-centric well-being	<ul> <li>Well-being</li> <li>Respect for autonomy</li> </ul>	<ul> <li>Harmony and human-friendly</li> </ul>	<ul> <li>Contribution to humanity</li> <li>Abidance of ethics guidelines by AI</li> </ul>	
Other		<ul> <li>Open and collaboration</li> </ul>		

This has several important implications. Shared values underline the fact that the concern for responsible AI transcends political differences, and that there is space for constructive, transmitiscul, dialogue on AI governance with the three East Asian states, at least in theory.

However, prior experience indicates that beyond shared values articulated in documents, context, which affects their interpretation, implementation, and enforcement, matters more. In this situation, it is important for Gmada to continue engaging with its partness on Al, finding common ground in the actual practice of these ethical values through communication and collaboration. It is easier and more expedient to argue for this approach in relation to Japan and South Koren, but not so much with regards to China, which has increasingly become the "other" of the Western, liberal states. But especially for this reason, it is important for states like Canada to continue engaging with China, in order in ensure that important dialogues on Al governance (and beyond) are not stated along gropolitical fault lines; and to constantly refine and identify areas of dialogue and negotiation, focused on issues of mutual concern.

#### Policy Recommendations

#### Recommendation 1: Increase Canada's repectly to govern AI to a co-ordinated manner at different levels of government.

Canada stands to benefit from the Government of Canada's forward-looking investment in academic research in the field of AI. The C\$125M investment in the Pan-Canadian Artificial Intelligence Strategy will further boost Canada's excellence in research, striving to maintain its global competitiveness. However, this evaluation of East Asian AI strategies suggests that there is a need for a more comprehensive Canadian AI strategy that strategies beyond R&D and that would harness Canada's capacity to adequately compete with better co-ordinated states in AI like China, Japan, or South Kores.



These countries have recognized that AI is a technology that is not limited within a single domain, and that engagement with it requires a cross-ministerial effort, which requires expertise to govern. Therefore, they have created bodies such as the AI Plan Promotion Office (China), Strategic Council (Japan), and the Presidential Committee on the Fourth Industrial Revolution (South Korea). In May 2019, the Government of Canada created the Advisory Council on Artificial Intelligence to "advise the Government of Canada on how best to build on Canada's AI strengths, identify opportunities to create economic growth that benefits all Canadians and ensure that AI

edvancements reflect Canadian values.<sup>we</sup> This is a new development and not much information is available, but it is definitely a step to the right direction.

Canada is different from East Asia and the developmental state approach would out be applicable in the context of Canada's system of government, especially considering different levels of government. It is challenging for the Canadian government to engage with better co-ordinated Asian states, because it does not have the same capacity in centralize its AI agends as they do. This is a challenge that has no single answer, but the Government of Canada must lead and huid dialogues with lowerlevel governments to ensure that AI is deployed across the country and to formulate AI policies that balance the need for co-ordination while maintaining the respect for existing relations between different levels of government.

Increasing the state capacity in govern AI starts by creating a space and investing in talent that can facilitate agile discussions and pulley implementations to co-ordination with different levels of government and non-governmental stakeholders. While it is difficult to imagine a centralized AI agency with the same capacities as the ones in East Asia, it might be reasonable to create an AI hub for federal and provincial AI R&D and deployment strategies in different sectors, as well as policy guidelines and public engagement.

\* Innovation, Science and Research Development Canada, 2019. Government of Canada canata Advinuy Council on Artificial Intelligence, New Wire County, https://www.councils.co/www.advanu/government-of-canada-county-advinuy-canada-ca artificial-intelligence-PURS90005.html. There are great initiatives rolling out in different levels of government in addition to the Pan-Geometrian Strategy, such as the federal government's Innovation Superclusters Initiative or the Alberta government's recent decision to invest C\$100M to help Al sectors. Also, the federal government has worked with the Council of Chief Information Officers to set standards for use of Al and bosted National Data and Digital Consultations roundtables to address the ELSI issues. The creation of a central Al agency would allow the different levels of government in work together more effectively to maximize the potential of different Al-related programs, ensure that the diffusion and adoption of the technology across the country follow common norms and ethics, and provide the capacity for Canadian policy-makers to lead in Al governance at the international level.

#### Recommendation 2: Leverage Canada's AI talent more effectively as part of "Brand Canada."

Canada is home to world-class researchers strong in basic AI research. This is an asset particularly important at a time when the global AI talent shoringe is the most common, pressing challenge for governments seeking to harness their AI potential. The Pan-Canadian AI Strategy recognizes this strength and seeks to maintain this competitive edge.

However, at least in East Asia, there is a need to highlight the association between these world-data researchers with the Canada brand. While many recognize the names of researchers, they do not necessarily associate them with Canada. Althoogh major corporations from East Asia (e.g. Semsong, Baida, Fujitso) are rashing to establish research centres in gain access to Canada's Al talent, more could be done to attract investment to Canada. Canadian governments and AI stakeholders should work together on buncing Canadian AI to further stress the association with Canada, thereby creating opportunities for post-secondary universities and local economies that host these worldclass researchers.

More specifically, it is necessary for Counda's AI stakeholders – federal and provincial governments, academics, and practitioners – to identify what makes Coundian AI distinct from U.S., Chinese, or any other competitor's AI. Initial conversations have suggested that Counda's diversity and encellence in good governance are some of the qualities that abould be stressed, and a policy that combines immigration –a specific policy area that reflects these Coundian values – with AI tolent acquisition might be a productive way forward.

Finally, it is necessary to horness the exmanic benefit of Considian Al beyond R&D and connect it in its application in different sectors of the Considian economy. The Innovation Superclusters initiative is a positive measure that enhances existing areas of strength in Canada's diverse economy and aboveness it in the rest of the world. In brancing Canadian AI, it is necessary in integrate a broader picture that goes beyond highlighting excellence in R&D.

#### Recommendation 3: Proactively address emerging AI issues in trade and investment.

Due to the nature of the technology, advances in AI development and deployment will create new issues to trade and investment with Chino, Japan, and South Korea, which are Canada's second, fifth, and seventh largest tracing partners, respectively. As such, Canada's different levels of government about consider emerging AI issues in trade and investment and prepare a fature course of action.

Chondian AI entrepreneurs are sware of the market opportunity in China but are apprehensive about the issues of intellectual property regulations and potential transfer of their technology for social surveillance or AI wanpons. This apprehension stems from the perception of different approaches in AI ethics, a problem that will not necessarily be limited to China. Further, crossboxler data regulation, which is tied in AI development and deployment, has already been identified as an emerging trade issue. In this content, different governments in Canada – especially the federal government – must harness the capacity to respond in issues related to AI and trade in an efficient and timely manner.

Considian AI talent and research centres continue to attract investments from major East Asian companies. AI is a permeable technology and could puse threats in different social, economic, and political sectors. This does not mean that Canada should resort to isolationism driven by fear; on the contrary, it is necessary for policy-makers to fully assess the implications of foreign investments to the space of AI and create clear guidelines for all statishedders.

Finally, it should be noted that when it comes to AI pulley, there is no silver bullet that will adequately address all issues at more. The focus should be on creating a space for continuous discussions and devising policy responses in a nimble manner, instead of drafting heavy headed regulations that cannot keep pace with the technology.

#### Recommendation 4: Identify Counda's place in emerging AI geopolitics and engage strategically.

China's rapid rise in the field of Al has created a sense of antiety around the world, coupled with the existing fears isward China. Conversations about AI in the Western world increasingly stress points such as democracy and civil rights, which read as a response in China's use of Al for social surveillance. Key discussions on Al ethics and policy occur in foroms such as the Organisation for Reconsmic Co-operation and Development (OECD) or the G7, which emiode China. Consequently, a fracture seems in he emerging between China and the Western world, which may prevent constructive dialogue on AI ethics and global governance. This fracture seems in have deepened significantly and become more obvious since September 2018, when the first draft of this report was developed.

Japan and South Koren share apprehension about China's AI leapfrogging, viewing it as a threat is their economic competitiveness. Politically, they are considered in he part of the liberal countries, but there are concerns about an overly Western imposition of AI ethical discussions, stemming from distinct cultural and intellectual traditions. For instance, even though both are liberal democracies, Japan and South Koren's discussions of AI ethics would explicit use of liberal language, such as democracy or civil rights. Further, for states like Japan and South Korea, their proximity to and economic dependence on China will increasingly limit their full commitment to causes of the liberal countries.

In this context, Canada is in a position to play a positive rule on the international stage as a mediator. It has strong Al researchers and institutions as an asset and the credibility that China, the United States, and European countries lack vis-à-vis each other. Regrettably, Canada's relations with China have deteriorated significantly since the arrest of Hunwei CFO Meng Wanzhou, but with the right pivoting in the long run, Canada could be the player that brings these parties to the table in facilitate dialogue on Al ethics and global governance.

In sum, the Government of Causda must embrace AI as a space of international competition among states, an analgam of the geopolitical and technological. In addition to continuing to barness its AI capacity, it about also actively participate in AI ethics and governance moving forward.

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The Asia Pacific Foundation of Canada (APF Canada) is dedicated in strengthening ites between Canada and Asia with a focus on expanding economic relations through irade, investment, and innovation; promoting Canada's experiise in offering solutions in Asia's climate change, energy, food security, and natural resource management challenges; building Asia akills and competencies among Canadians, including young Canadians, and improving Canadians' general understanding of Asia and its growing global influence.

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ASIA PACIFIC FOUNDATION OF CANADA FONDATION ASIE PACIFIQUE DU CANADA

# CANADA AS A 21<sup>st</sup> CENTURY PACIFIC POWER

TOWARD 'BROAD DIVERSIFICATION' IN ASIA

**JANUARY 2020** 

This policy brief is a part of the Asia Pacific Foundation of Canada's Strategic Asia series, which examines security and geopolitical issues in the Asia Pacific with reference to Canada's national security interests. The authors identify what they agree are the region's most pressing geopolitical and geo-economic issues and outline the parameters within which policy-makers can act. The brief is non-partisan and, as such, avoids prescribing specific policy measures. Rather, the authors have provided regional situational awareness for those in government to craft informed policy in line with their respective political mandates.

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be Asia Pacific Brandetion of Canada (APF Canada) is a cost-for-profit organization forased on Canada's catalyst for engagement with Asia and Asia's bridge to Canada. APF Canada is dedicated to strengthening ites between Canada and Asia with a focus on seven thematic areas: trade and investment, surveys and polling, regional security, digital technologies, domestic networks, sustainable development, and Asia Competency.

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### EXECUTIVE SUMMARY

Canada must prioritize the advancement of its national interests in the Asia Pacific when developing a regional grand strategy. Specifically, Canada must develop an approach to Asia that allows it to ensure its security, demonstrate its autonomy, continue its economic development, and grow its stature and prestige.

Must immediately, Canada must develop a strategic approach to manage its position between the United Status and China as the two superpowers' relations are conflictual and Canada finds itself under pressure in 'choose sides.'

Central to this approach is the need to demonstrate to Asia Pecific countries that Canada is an independent actor. Canada must articulate its autonomy in Asia, particularly as regional countries are increasingly concerned over the U.S.'s influence on regional security and stability and tend in view Canada as aligned with the U.S.

Canada needs in demonstrate strategic commitment in Asia through bilateral engagement and multilateral dialogue. Canada, in particular, must strengthen its non-economic links in Asia, particularly those addressing strategic issues. Central to developing a strategy to achieve "broad diversification" is greater understanding of the region's institutions and trends. Canadian pulley-makers must invest in developing a domestic respective to munitor and respond to regional developments in ways that demonstrate Consilian leadership and Canadian values.

Canada can also engage with other regional 'middle powers,' meny of which are looking to expand bilateral relations with other Asian countries to balance egainst U.S. and Chinese Influence. Australia, Japan, New Zealand, and Singapore, in particular, are natural partners.

Canada should perticularly look to ASEAN and ASEAN member states for opportunities for engagement with a clear understanding that ASEAN is growing in regional centrality and importance.

INTRODUCTION

### INTRODUCTION

In the three years since the Asia Parific Foundation of Canada (APF Canada) published its 2026 Building Bloch for a Canada Asia Strategy, the Asian region has grown in importance and in complexity for Canada. Opportunities for diplomatic and commercial engagement within the region have expanded, for example, around areas including middle power diplomacy and economic regionalism. Concurrently, uncertainty and instability in the Asia Pacific – whether in the form of trade tensions between the United States and Chine, a deterioration to bilateral relations between Canada and Chine, or a creeping militarization of issues ranging from the South Chine Sea to India-controlled Kashmir – have grown and continue to expand.

'An immediate priority of any Canadian government must be the formulation and implementation of a comprehensive Asian strategy that draws on Canadian strengths and values to demonstrate its strategic commitment to the region.'

It is APF Canada's position that an immediate priority of any Canadian government must be the formulation and implementation of a comprehensive Asian strategy that draws on Canadian strengths and values to demonstrate its strategic commitment in the region. While certain issue areas

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#### INTRODUCTION

will require more ad boc policy approaches, development of an Asian 'grand strategy' is not only possible but critical for Canadian engagement in the region. Pailing its development, Canada will find itself increasingly on the outside of

regional developments as Asian countries more forward without consideration of its position or interests. Succeeding in its formulation and implementation, conversely, Canada can position itself as an important regional actor, one that leads with its values and abopts regional developments as a participant rather theo an observer.

In this policy briefing, APF Canada offers a bloeprint for a Canada-Asia strategy based on dominant regional trends and institutions, Canada's regional comparative advantage and value-add, and Canadian national interests. In an during, APF Canada provides a strategic formula based on relatively fixed inputs, many of which are non-partiasm to the extent that they will inform any Canadian government's policy making process.

#### In developing a regional 'grand strategy,' Canada must:

- Develop a strategic approach to manage its position between the United States and China.
- Demonstrate to Asia Pacific countries that Canada is an independent actor and not one beholden to U.S. interests.
- Demonstrate strategic commitment to Asia through bilateral engagement and multilateral dialogue.
- Invest in developing a domestic capacity to monitor and respond to regional developments in ways that demonstrate Canadian leadership and Canadian values.
- Engage with other regional 'middle powers' and in particular look to ASEAN and ASEAN member states for opportunities for engagement.

## CHAPTER 1 INSTITUTIONS AND TRENDS

#### CHALLENGES

ith regard to the Asia Pacific's predominant institutions - those most influential an regional order and development - APF Canada believes the following are the most relevant with respect in Caunda's policy formulation. First and foremost are the orgaing tensions between the United States and People's Republic of China. (PRC), which suggest the Asia Pecific is moving toward a fature of increased competition (if not conflict) and hiferention. While estimately the result of trade disputes, such tensions are increasingly structural, based on China's growing commute contrality in Asia, the interconnected nature of Asian trade, investment, and finance, and the United States' relance on its military to maintain regional 'pre-eminence.' As most forenesis suggest Chine's dominant position in Asia will grow with the PRC potentially beaming the world's largest exmany in real grass domestic product (GDP) terms by 2000 and as more Americana come to view China's growth as a 'critical threat' to U.S. interests, it is highly unlikely that tendons between the two countries will ameliorate with a trade agreement, even one seen as beneficial by both governments." Rather, there is a likelihood that U.S. -China tensions will entend beyond the Tramp and XI administrations to infect the two countries' next-generation leaders, repurchess of their political affiliations and/or prodivities. At the time of writing, for instance, all the U.S. Democratic condidates for president have expressed opposition to China's development model and criticism of its internal politics.

'There is a likelihood that U.S.-China tensions will extend beyond the Trump and Xi administrations to infect the two countries' next-generation leaders.'

As U.S.-China transform deepen, there is an increased likelihood. that regional status, including Canada, will be forced in choose which of the two countries is a priority partner. While Asian countries have long sought to avoid this outcome, which they universally agree would lead to increased strategic instability and decremed economic development, any 'decoupling' between the U.S. and China will result to parallel institutions within Asia. that would result to competing 'spheres of influence.' One of the must prominent examples of this type of development is already underway with regard in talecommunications and 5G, with Asian countries such as Thailand, Malaysia, the Philippines, Cambodie, Laos, and Myanmar all working with the Chinese company Hurwei while others, tockeling Japan, Australia, and Taiwan, limiting and/or restricting Houses's involvement in their internal communication network systems. The division between those countries that work with Hussei and those that do not is not simply a choice between companies, but rather a choice with implications that extend to competing rules, regulations, and systems that are mutually exclusive.

Closely related to U.S.-China tensions is the increase in belliousity and unifateralism coming from both the United States and China toward issues in the Asia Pacific. With regard to the United States, the Tramp administration's 'America First' foreign

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policy approach is undermining the U.S.' traditional allance relationships with South Koren and Japan while creating tension within Asia over their relations with China. Senior Trump administration officials including Vice President Pence and Secretary of State Pempeo have repeatedly used international and regional multilateral fore to demand that U.S. allies pay more for U.S. 'protection' and to pressure Asian countries to reject economic engagement with China, advancing the controversial assertion that Beijing uses 'debt trap diplomety' to undermine Asian countries' sovereignty. The Trump administration has also shown a willingness to use economic mertion in shape Asian countries' foreign and trade policy, the most relevant example for Canada being steel and aluminum tartifs and threats of further trade control measures.

The Trump administration's 'America First' foreign policy approach is undermining the U.S.' traditional alliance relationships with South Korea and Japan while creating tension within Asia over their relations with China.'

The Tramp administration is also militarizing Asia through its plans to deploy land-based, medium range ballistic missiles off the Chinese meinland, its 'fire and fary' approach to North Kown, its continued freedom of navigation operations (PONOPa) in the South Chine Sen, and its drawdown of diplomats and increase in military officials through the region. While the prioritization of a U.S. 'forward presence' in Asia has been a staple in U.S. foreign policy going back decades, the Tramp administration's publication of its *inde-Pacific Strategy Report marks* a significant increase in U.S. securitization of the Asian region with specific reference to China as a near-peer adversary and an existential thrent.<sup>2</sup> Notably, the Tramp administration's militarization of Asia is occur ring in parallel with broader U.S. disengagement from Asia, whether in terms of its alliance networks or economic relations. These concurrent developments suggest the U.S.'s future role in Asia will be one predicated on security issues, not on the economic and political concerns Asian states primitize.

As for China, Beijing under the XI Jupping administration has shown an increased willingness in use coercion to advance its foreign and security policy goals, whether in the form of hostage diplomacy or informal compute constitues. Canadians are well aware, for example, that Beijing has detained foreign nationals working in China in gain negotiating leverage or as a means in panish countries it feels are working against it. The case of the Canadian detainees is a stark example of this behaviour and a clear sign of the pitfalls any country faces when working closely with the PRC. Beijing has also demonstrated its willingness in use economic tools such as import controls and/or phytosanitary inspections in stop or in also inhound exports from countries it seeks in puniah.

Chinese rheioric around issues it describes as 'core' to its national interests has become increasingly assertive, with particular reference to China's territorial data over the South China Sea and its sovereignty claim to Telson. While Beijing continues to

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use a dual track approach toward these issues, one predicated on negotiation and threats, the XI administration has taken a more direct line in 'solving' these issues within a fixed timeframe than previous Chinese leadership, most particularly with regard in Taiwan's status. This approach to cross-strait relations has the potential in bring China into conflict with the United States, as U.S. Congress passed the non-binding Taiwan Assurance Act in 2019 to demonstrate its political and military support for Taiwan in the face of growing pressure from Belling.



More immediate than Talwan, however, is the XI administration's approach to the situation in Hong Kong, which is growing more precarious. While protests in Hong Kong have decreased in size, the protestors have adopted new, more disruptive tantics, including targeting transportation halo such as the Hong Kong atyport and Hong Kong Mass Transit Railway system. Clashes between protesters and Hong Kong police have become more frequent and more violent and public opinion, as a result, has become more divided within Hong Kong and abroad among those who support some protesters and those who support the local government and Beijing.<sup>6</sup> Some analysis argue Hong Kong is the first 'battleground' in the emerging U.S.-China 'Cold War,' pointing to the clash of political and economic theology within the extensionus region and U.S. overt and (suspected) covert activity in the area challenging Beijing's sovereignty. Whether or not this is an accurate portrayal, it is likely that developments in Hong Kong will have wider regional implications for U.S.-China relations and, consequently, for Canada's engagement strategy in Asis. Canada will find its relations with Hong Kong complicated, for instance, if the United States revolves Hong Kong's special trading status as members of the U.S. Congress have threatened.

Beyond U.S.-China tensions and U.S. and Chinese behaviour, there are many other significant institutions that constitute Asten order and, thereby, shape Canada's policy options toward the region. One troubling development, for instance, is the breakdown in state relations between South Korea and Japan, two countries that have, despite a troubled history, developed deep pulitical, commercial, and people-to-people ties over the past 50-plus years. While the precise nature of the downturn in South Korean-Japanese relations is beyond this paper's scope, it is important to note the two countries' deterioration in relations is occurring during a time of diminished engagement by the U.S. The Tramp administration has repeatedly called the value of its allance relations with South Korea and Japan into question, has left key State Department pratition is both countries onfilled for extended periods of time (including the U.S. ambassador to South Koren), has appointed non-curver diplomats as amhaasadors to

both countries, and has marginalized both states from the U.S. approach to security and trade in the region. The breakdown in South Korea-Japan relations is also taking place as both countries increase their diplomatic and economic ties to China and as China becomes more militarily engaged with Russia in Nurtheast Asia.

The Democratic People's Republic of Korea (DPRK) and its origoing nuclear program remain a critical part of Asian order with the potential to introduce high levels of conflict, if not war, to the Asian theatre. The current U.S. administration's summit approach to U.S.-DPRK relations has not addressed any of the outstanding issues around the DPRK's ordear program, rather it has provided time and space for its further development and consolidation. While some may see the DPRK's self-imposed more turium on long-range ballistic missile testing as a incitical victory, that the current administration has chosen in claregard it alies' concerns over its short- and mediam-range missiles is a strategic win for Kim Jong-un. That the DPRK continues to test and in refine its missile delivery systems is also indicative that the situation on the Kozem peninsula remains unstable.

Among the regional 'hot spots,' Kashmir remains one of the bottest, with the current Indian government's decision to revola Article 370 of India's constitution and its subsequent stripping of the region's autonomy likely to contribute to further instability in the area. India is also experiencing actionwhile protests, many of which have resulted in has of life, the result of the Modi government's new citizenship lass that restricts Muslim immigration and relegates the country's 200 million Muslims to second-class status.\*

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Relations among the Melsong River basin states are also increasingly strained over issues related to water use and water management. Late monssion ratus coupled with apstream hydropower developments in China and Lans led to a drought within Melsong riperian communities in 2019 with the river's water level falling to its lowest level in 10D years. Rice coltivation in China, Myanmer, Thelland, Lans, Combodia, and Vietnam – all Melsong states –fell precipitously as a result, affecting continental Southeast Asia's overall food security. While the Melsong river states continue to discuss terms for abared usage, China is developing opsizem hydropower projects, damaning the river clines in its source waters. As the Melsong directly effects up to 300 million people across Southeast Asia, its remains an important source of potential instability within the Asia Pacific.

"While the Mekong river states continue to discuss terms for shared usage, China is developing upstream hydropower projects, damming the river close to its source waters."

Closely related is the issue of climate change, an issue with deep relevance in the Asia Pacific context. Changes in temperatures and weather patterns have caused super typhoons in Southeast and Northeast Asia, flooding in India, Japan, and Thailand, and entreme weather in countries like China, Japan, and South Koren in 2019. For Asian countries such as the Maldwes, Fijl, and Bangladesh, rising sea levels present existential challenges both in terms of inundation and human security.

#### **OPPORTUNITIES**

whin the past year, there has been a resorgence of middle power diplomacy within the Asia Pecific, perticularly from the Association of Southeast Asian Nation (ASEAN) member states as they work in navigate U.S. -China treadous and to insulate themselves from outside pressure. Must recently in June 2019, the ASEAN member states agreed on an Outlook on the Indo-Patific concept where member states tilentified ASEAN centrality in regional affairs and ASEAN-led institutions, such as the East Asian Summit (EAS), as necessary conditions to regional stability. While a degree of distantity penalata among the ASEAN member states over certain. iasue areas, whether with regard in the South China See or the U.S.-Chine trade way, there is still a clear tendency among these countries to collaborate on strategic issues, such as the development of a Code of Conduct (CoC) for activity in the South China See. While scholars have debuted ASEAN's relevancy since its inception, the organization's position as an alternative centre. of power in Asia is growing as its member states' comunies grow, as ASEAN economic and political interconnectivity deepens, as China increases lits relience on ASEAN to facilitate its approach to Southeast Asia, and as the U.S. and EU empower the organization. to balance against China's regional influence.

Middle power co-operation between countries including Anstralia, Japan, New Zealand, and Singapore has also deepened over recent years, both the result of these countries' shared commitment to good governmore and economic

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inclusivity and their aboved visions of the Asia Pacific's strategic contransment. Less formalized than ASEAN, co-operation between these like-minded Asian middle powers has resulted in the development of regional norms around concepts like the indo-Pacific and institutions like the Comprohensive and Progressive Transpacific Partnemhip (CPTPP).<sup>5</sup> Such middle power engagement in Asia extends in Latin America, where middle powers including Chile and Maxico have prioritized their Asian engagement strategies and operationalized their engagement through regional institutions like the CPTPP. For Canada, opportunities with Asian middle powers include multilateral engagement (outlined below) and bilateral shalogoes, such as Canadian-Australian, Canadian-Singaporean, and/or a Canadian-Indonesian dialogue mechanisms, for example.

'While scholars have debated ASEAN's relevancy since its inception, the organization's position as an alternative centre of power in Asia is growing.'

Closely related to middle power antivian is the continued importance within the Asia Pacific of ambiliateralism and multilateral institutions. While ASEAN is arguably Asia's most established and endoring multilateral institution – both as a standalone institution and as a co-ordinating mechanism for extra-regional states through its ASEAN + formats – institutions such as the Conference on Interaction and Confidence-Building Measures in Asia (CICA), the Council for Security Cooperation

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in the Asia Pacific (CSCAP), Asia-Pacific Economic Cooperation (APEC), the Lancing-Melong Cooperation (LMC) Mechanism, and the Shanghai Cooperation Organization (SCO) also provide important platforms for regional states to engage in diplomacy and dialogue around regional issues that, if left unaddressed, could lead to conflict. Within the ASEAN+China forum, for example, ASEAN member states and China are negotiating a Code of Conduct (CoC) for the South China Sea that could – If successfully agreed upon – help deescalate one of Asia's main flashprints. Southeast Asian countries are also working with China through the LMC mechanism to agree on water rights and water usage around the Melong river, relying on diplomacy and dialogue to address what otherwise has the potential to be a significant source of tension in Asia.

Parallel to Asian multilateralism is the growing number of minilateral institutions, often formulated around a specific issue area. The U.S.-led Quadrilateral Security Dialogue is -one soch example of a minilateral institution between the U.S., Japan, Australia, and India, designed as a democratic bulwark against China's regional rise. China-Japan-ROK trilateralism and the ASEAN-based 'Our Eyes' intelligence abaring mechanism are other salient examples of Asian minilateralism, all with potential to infinence regional dynamics for broader regional stability. For Canada, there are also significant opportunities in develop minilateral ties around other issue areas in Asia. A strategic Canadian minilateral approach to Asian landlucked countries including Nepal, Mongolia, and Housen, for instance, would allow It to develop influence in otherwise isolated states where it has a long tradition of good bilateral relations but lacks a contemporary aid program to maintain relations. The demand-signals for Canadian involvement within these landlocked countries are loud; Canada need only allocate resources for engagement to advance its interests.

While pullitical engagement and dialogue are in part responsible for ASEAN's growing statute as a middle power institution, the abift in the economic centre of gravity in Asia from China toward Southeast Asia is also providing it with additional relevance. ASEAN member states such as Vietnam, Thailand, Maleysia, and Singapore are all benefiting from U.S.-China tracke tensions as investors relucate menufacturing hubs, resource supply chains, and look for alternative resource providers. This abift provides a complementarity in the increased consolidation of the ASEAN Beenomic Community (AEC) 2025 concept, which ASEAN member states adopted in 2015 in facilitate a single ASEAN common market, and some ASEAN member states' adoption of the CPTPP agreement in late 2018/early 2019.

Building on these economic institutions, ASEAN member states are in negotiation with other Asian countries – including Australia, Chine, Japan, India, New Zealand, and South Keren – to conclude the Regional Comprehensive Economic Partnership (RCEP) agreement, which would further increase Asian economic integration and ASEAN economic centrality. 'Vietnam, Thailand, Malaysia, and Singapore are all benefiting from U.S.-China trade tensions as investors relocate manufacturing hubs, reroute supply chains, and look for alternative resource providers.'

In addition to ASEAN and ASEAN member status, Japan under Prime Minister Alse has taken on a more active rule in the Asia. Pacific and has, as a consequence, become a partner of choice on exposite and diplomatic affairs for many Asian countries.\* Takyo was a driving force behind the CPTPP agreement and remains the largest outside provider of foreign direct investment. (FDI) in Southeast Asia, investing primarily in the sub-region's underdeveloped infrastructure sector. Japan has also embraned giobal and regional multilateralism, leading the charge to reform the World Trade Organization (WTO), for example, and reinforcing market openness through its role as G20 host. Through this proactive approach, Tokyo has increased its regional. influence -or its ability to influence regional outcomes - to the degree where the Lowy Institute identified it as the second most powerful power in Asia in 2019, after China.' Where the U.S. has withdrawn from regional leadership, Japan has stepped forward as the regional stabuart of the existing liberal order.

Japan has also been proactive in negatistions around the Regional Comprehensive Economic Partnership (RCEP) agreement, bosting the first non-ASEAN multilateral meeting on the topic in Tokyo in 2019. RCEP would include all ASEAN member states and ASEAN's six free trade agreement (FTA) partners, making it one of the largest free trade blocs in the world's accounting for 45% of the world's population, 40% of the world's trade, and 33% of its gross domestic product (GDP). In parallel to RCEP, China has launched the largely regionally-focused Belt and Road Initiative (BBI) which, while often decried in Western media as a grand strategy in advance China's global influence, also brings much medel investment to the Asian region and enables interconnectivity between China and the rest of Asia and between Asian countries.

Like Japan, Indonesia is becoming an increasingly active middle power state, both within ASEAN and Southeast Asia. Over the past three years, indonesia has maintained a growth rate of around 5%, has experienced a rapid growth in mobile e-commerce, and has introduced a Maritime Global Fulcrum (MGF) strategy designed in turn the country into an indo-Pacific bub. With 60% of its population under 40 years of age and a population of 256 million, indonesia will grow in importance in the near to medium izeros, particularly within the Asia theore.

The Asia Pacific continues to lead the globe in state-led investment in technology development and innovation, with key countries like China, South Koren, Japan, and India leading the charge.\* This state-centric push has led to breakthroughs in hig data and Artificial Intelligence with matching opportunities for regimel multilateral institution formation to take place around data management and AI application. Regional technology trends are also contributing to the growth of research and development centres of excellence in Asian economies such as Australia, Chine, Taiwan, Singapure, and Japan and accelerator and incubator clusters in countries like Thailand, Makysia, and Vietnam. CHAPTER 2 BUILDING A 2020 CANADA-ASIA STRATEGY

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o build a Considian strategy for the Asia Pacific, it is first necessary to identify and articulate Canada's strategic cod state toward the region. What is

It that Canada seeks to achieve through engagement in Asia? While there is large scope in debate what precisely Canada hopes to achieve, there are certain fundamentals within its national interasts that are core and.

as such, require consideration. in any policy formulation. These fundamentals include put are not necessarily limited to) security, automony, scanoric development, and stature/ prestige." Any Canadian prevenuent's approach to the Asia Pacific region must consider these core issues, regardless of its broader approach to its regionallyfocused foreign policy or the when it brings to its foreign. engegement. As such, one can

Fundamentals within Canada's national interests that are core to any policy formulation:

- Security
- Autonomy
- Economic development
- Stature/prestige

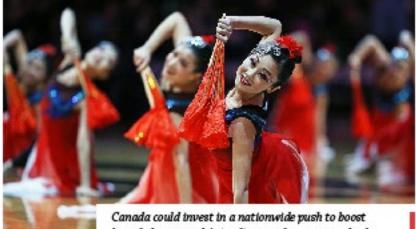
view the successful realization of its outlooel interests – defined in line with the above considerations – as Canada's primary objective in the Asia Pacific. From this starting point, one can formulate policy accordingly.

### SECURITY

With regard to security, the most pressing challenges Canada faces in the Asia Pacific are 1) conflict between the U.S. and China, 2) conflict in the South China Sea, 3) conflict on the Korean Parinaula, 4) conflict between China and Taboan, and 5) non-traditional security threats, including transmational crime, terrorism, and climate change. While none of these challenges – with the possible exception of terrorism – presents a direct domestic challenge to Canada, each has the potential to destabilize the Asian region (undermining Canada's other national interests, such as economic development and stature), in split the region along opposing sides, and/or to draw Canada tain a conflict scenario where it has much to has and little to gain.

No strategy can completely remove the threat of insecurity for Canada. The best policy-makers can do is in develop an approach that leasens Canada's overall risk in the Asia Pacific through engagement, dialogue, and partnership. Where, when, and how a government chooses to undertake such policy can vary, but a successful policy for the Asia Pacific must consider the following structural conditions within the region around these issues.

First, many of the region's outstanding disputes – whether instability on the Korean Peninsula, territorial disputes between China and Japan, or questions of sovereignty between the PRC and Taiwan – are remnants of the Cold War in Asia and, as such, carry deep ideological and historical undertones.<sup>30</sup> Any attempt to address these issues, or to participate through multifateralism. to address these issues, requires these involved to have a deep anderstanding of historical issues as they influence contemporary state relations. To ensure Canadian policy-makers have these requisite skills, the Canadian government must invest in a nationwhile push to promote Asian hiteracy around language, history, and colture. By way of example, under Prime Minister Kerin Rudd, Australia committed AUS\$65 million in develop Asian literacy at the primacy, secondary, and tertiary levels explicitly to strengthen Australia's foreign and security policy relation in Asia.<sup>12</sup>



knowledge around Asian literacy, language and culture

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Source: Getty Images

Second, the Canadian government must be proactive rather than reactive in engaging with Asian countries on issues of regional security and atability. The must effective means in achieve proactive security diplomacy is through engagement in Asia's predominant security-related multilateral fore, including the ASEAN Defence Ministers Meeting-Plus (ADMM+), the East Asia Sommit (EAS), and the Track 1.5/2 Council for Security Cooperation in the Asia Pacific (CSCAP), all of which lack a

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sustained Canadian presence at the time of writing. While Canada's ultimate participation within these multilateral form is conditional on regional states' approval (particularly the ASEAN-led ADMM+ and EAS), the government can, and should, energetically lobby for the chance to engage and contribute to discussions on regional issues. Canada can, and also should, look to engage bilaterally with Asian states on security diplomacy and strategic dialogue, particularly with Asian mildle powers such as Asstralia, Japan, New Zealand, and Singapore, which share Canadian values and strategic priorities toward the region.

Canada abraid also consider the possibility and desirability of establishing rotational troop presences in certain key Asia states, such as Singapore, Indonesia, or Malaysia, for training and operational purposes, particularly around nonkinetic activities such as homonitarian and disaster relief, and maritime law enforcement activities. This is not to advocate for Canadian oversens military bases, but rather for an increased investment from the Department of National Defence (DND) in military people-to-people enchanges to demonstrate Canadian's willingness to support regional strategic priorities and to abow a soutained, non-economic Canadian presence within the region.

The government can, and should, energetically lobby for the chance to engage and contribute to discussions on regional issues." Third, and dosely related, the Canadian government must demonstrate sustained strategic resolve in its Asian pariner countries. There is an unfortunate sense from regional actors that Canada's interests in the Asia Pacific are purely economic and that it would rather avaid the trickler issues around security and sinhility and, as such, that it locks a sustained commitment. to Asia mitalde its communic interests.<sup>38</sup> This regional perception. means that Canada has less influence in the region, not because Aden countries see Canada as not important, but rather that they see Canada as largely absent from regional non-economic offairs.<sup>10</sup> To address this, the Coundian government must do more than simply open embassies in Asian countries or appoint an ASEAN ambauador. Rather, it must invest in government and nongovernment initiatives to ensure Canadian vokes are consistently and regularly beard throughout the regim on security incomand in demonstrate its long-term investment to regional peace. and stability.

There is an unfortunate sense from regional actors that Canada's interests in the Asia Pacific are purely economic and that it would rather avoid the trickier issues.'

Burth, the government must work within regional norms and values in advance Canada's national interests with regard to security relations. Rather than framing its Asian engagement through its own values and norms, many of which are not widely shared throughout the region, Canada would do well to

understand the importance for Adam countries of concepts such. as 'non-interference,' 'nutrial respect,' and freedom of 'national existence, which are codified to ASEAN principles and the Five Principles of Reaceful Coexistence that inform regional state relations.<sup>34</sup> This is not to suggest that Canada should not pursue its own values where and when it sees doing so as essential to its national security interests. Rather, Canada about understand that many Asian states view regional security as a value-less structure requiring a progratic rather than a principled approach. <sup>20</sup> As such, Canada should work to desegregate its principled foreign policy from its security relations on. issues including Chine's internment of its Uigher population, the Myanmer government's treatment of its ethnic Robingya. population, and Philippine President Duterte's 'drug war' entrajudiciel killings. While such a realpolitik epproach will be difficult for many Canadiana to support, it is essential for Canada to operate within the strategic Asian environment as it exists, not as Canada worki prefer it.

'Canada should understand that many Asian states view regional security as a value-less structure requiring a pragmatic rather than a principled approach.'

#### AUTONOMY

In his keynote speech to the Shengri-La Dialogue in 2019, Singaporean Prime Minister Lee Halen Loong outlined a vision of Asian oxfer predicated on conflict between the U.S. and China where small and middle powers lack agency to advance their own notional interests outside of multifateral institutions.<sup>16</sup> PM Lee used his speech in call for granter unity among ASRAN member states in maintain sovereign autonomy and in prevent the development of regional spheres of influence around U.S.led and Chinese-led blocs. While PM Lee was speaking from a Singapurean perspective, his comments echoed regional pulling results that suggest fear of autonomy and dissetisfaction over grant power conflict is widespread among Asian states.<sup>27</sup>

Canada faces, and will face, these same pressures operating in the Asia Pacific. While there is no question about Canada's domestic sovereignty, its ability to operate within the Asia Pacific is limited to the extent that it can affect change within the regional order. As a quintessential middle power, Canada can influence outcomes through traditional tunk like diplomacy. Canada's unfateral ability to shape its operational environment in Asia is, however, limited, as is its ability to meintain full automony of action.

The U.S. has looked to Canada as a natural partner to advance its own foreign affairs, even when the rationality of doing so is not immediately clear for Canada.' This is particularly the case with regard in the United States, which sees Canada, and which Canada has long seen, as a natural partner and ally in Asia. Indeed, while Canada has been a leader to some cases issued Asian affairs (must notably with its decision in normalize relations with the PRC before the U.S.), it has traditionally looked in the U.S. (and EU) for policy direction within the region.<sup>16</sup> Concurrently, the U.S. has looked in Canada as a natural partner to advance its own foreign affairs, even when the rationality of doing so is not immediately dear for Canada.<sup>16</sup>

While Causela has benefited, and continues to benefit, from its close relations with the U.S., the current administration's approach to U.S.-Causela relations and its increasingly belicase approach to Asian affairs both suggest that Causela must antively work to develop strategic autonomy within the region outside of the broader U.S.-driven approach. The need in demonstrate autonomy from U.S. influence within the Asian region is particularly important for the following reasons.



Sources Gotty Images

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Enst, the U.S. has dearly articulated an approach to the Asian region – its 2019 Indo-Pacific Strategy – predicated on a military-led strategy designed to counter China, which it portrays as a 'strategic threat.' In adopting similar language around an Indo-Pacific approach to Asia, Canada must make certain to differentiate itself from the U.S.-formulated concept, particularly with its focus on military competition and its inherently anti-China language. This distinction is essential as other regional states and institutions – Japan and ASEAN, for example – are working in develop their own visions of the Indo-Pacific more relevant in their strategic visions, geographic positions, and maltilateral relations.

Second, Canada must demonstrate its independence from the U.S. in the Asia Pacific is address regional concerns over its autonomy.<sup>2</sup> While this is not to suggest that Canada purposefully break with the U.S., or undermine its relations with Washington for symbolism's sale, clear opposition to a U.S. priority and/or initiative within the region would ameliorate regional perceptions that Canada only acts in ways that support U.S. priorities. Importantly, Canada should only show opposition to U.S.-led initiatives if doing so advances Canada's national interests. Yet the simple act of demonstrating Canada's independence to a sumewhat sceptical region would allow Canada to develop for ther its animomy, and a national interest in and of itself.

Third, Canada should look to regional strategies such as Indonesia's 'progratic equidistance' to develop an approach to great power relations where it maintains strategic distance from China and the United States. This type of policy must include diversification of Canada's economy away from the United States, deepening of bilateral relations with middle powers in Asia, such as Japan, Taiwan, Australia, and Indonesia, and expanding its presence in regional multifateral fors, including those multifateral platforms such as the Belt and Road Initiative Forum that Washington does not support. The demonstration of a distinct Canadian 'voice' on regional strategic issues within regional groupings like CSCAP is also a critical component of a strategic distancing approach toward Asia, although the developing of such a voice requires a sustained strategic commitment in the region.

Bourth, and lastly, Canada must restore positive ties with China. for the sales of regional balance of relations and for the value of the overall bilateral relationship. Despite the difficulty in working with Chine, it is in Canade's broader national interest to maintain good state relations. Importantly, Geneda must approach its bilateral relations with the understanding that good relations require reciprocity and that Beijing must be willing to compromise on issues such as the detainees to advance relations. Canada, too, must compromise on lasure of importance to China, even at the cust of diminished relations with the United States. Canada could follow the United Kingdom's example, for instance, and allow the Chinese firm Huswel to have a role in Canadian 5G development. Or Canada might co-operate with China under its Belt and Road. Initiative, including participation in China's sumual Belt and Read Initiative Forum, where doing so makes sense for Canada's national interests. While such compromise may be impalpable to some Canadiana, poor relations with China do come with a beavy out, including greater dependence on the United Status and the corresponding loss of strategic extension in Asia.

## ECONOMIC DEVELOPMENT

Measured by actual and forecasted economic growth, the Asia Pacific has become the global centre of gravity, meaning much fature economic activity – whether innovation, invasiment, or consumption – will occur within the region.<sup>20</sup> For Canada, economic growth in Asia is a distinct opportunity as it is geographically a Pacific nation and has the benefit of economic complementarity with many Asian countries, particularly within its more traditional economic sectors of coal, agricultural goods, and forestry products. Soccurative Canadian governments have rightfully prioritized the region in their economic developmental strategies, forusing on market access, multidirectional investment, and people-to-people exchanges.



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Yet Canada's approach to communic engagement in Asia has, in date, fallen short of its full potential, even within institutions such as the CPTPP. Since late 2018/early 2018, for instance, Canada's overall trade with Japan, Mexico, Pera, and New Zealand – all CPTPP states – has actually declined, despite the reduction and removal of trade barriers such as tartifs.<sup>22</sup>

While this downturn in trade is in line with global trends, the implications for Canada's communic integration in the Asia Pacific are numetheless significant.

'In a region where politics and economics are intricately linked, Canada's approach has failed to reconcile the two.'

Neither has Canada successfully navigated the pulitical dimensions of economic co-operation, failing, for example, to separate the political and economic components of its relations with China and/ or to demonstrate its strategic commitment to the Asia Pacific outside its economic interests. In a region where pulitics and economics are intrinstely linked, Canada's approach has failed to reconcile the two.

To ensure greater economic engagement in the Asia Pacific, both within its existing institutions and with non-traditional partness, the Canadian government can develop a strategy that achieves both its economic and political sime. While the exact parameters will differ with each government, such a strategy should be based on the principle of broad diversification,' as outlined below.

#### ECONOMIC DIVERSIFICATION

Central to a broad diversification approach is the deepening of Canada's economic relations with its traditional Asian partners, the expansion of Canada's regional economic partners, and the broadening of its economic relations from traditional sectors – those based on natural resource extraction – to technology driven sectors, including clean technology and aerospace products, among others.

With regard to deepening economic relations, Canada should work with Asia's developed economies - many of which are already its must important regional economic parimers - in expand bilateral economic ties in both type and scope. With Japan, for instance, Canada should increase its export of liquefied natural gas (LNG) to the country to help Tokyo ensure energy diversification and in expand Canada's energy exports to the region. Canada also has a unique opportunity through the CPTPP to export more agri-food and sectord products to Japan, particularly beef, which saw a tartiff reduction of nearly 49% under the multilateral trade agreement. With Australia and New Zealand, conversely, Canada should encourage further public and private investment to key industries, building on the already entensive bilateral investment relations it enjoys with both countries. Canada's peoplen funds, in particular, abould look to Anstralia and New Zealand as two of Asia's must stable investment destinations going forward, and Canada's service sector can leverage new rules under the CPTVP to expand. their activities in transportation, legal, manufacturing, and contramonatal access.

With regard to partnership diversification, Canada can work within its existing regionally-based institutions, such as the Canada-Korea FTA, the CFTPP, and the Asian infrastructure investment Bank (ADB), to expand trade and investment ties and in identify areas for development essistance that can provide return on investment and advance its political interests. With the Canada-Korea FTA, for instance, Canadian firms must move beyond the export of coal, copper and iron ore, and raw aluminum to include more value-added products such as precision instruments and machines, both of which South Korea imports from other sources."

The Canadian government can support such expansion either through direct negotiations with the South Korean government (which enjoys a trade surplus with Canada) for greater market access or by providing funding to Canadian small and medium sized enterprises to plint their products in the South Korean market.

'Central to a broad diversification approach is the expansion of Canada's economic partners and the broadening of its economic relations from traditional sectors – those based on natural resource extraction – to technology driven sectors.'

With CPTPP member states, Causda can support its private enterprises to expand trade and investment with both its traditional and non-traditional economic partners by providing them with timely data so they can identify trends and appartantities within the bloc. According to APF Canada's 2019 CFTPP Tracker report, for instance, Canada correctly sends **82%** of its exports within this bloc to Japan, Mexico, and Australia. Yet Canadian exports are actually growing more quickly with smaller CFTPP states such as Malaysia, Vietnam, and New Zealand.<sup>26</sup> This is not to discount Canada's trade relations with its largest partners – although bilateral trade between Canada and Japan, Mexico, and Australia did, indeed, decline to 2019. Rather, it is to suggest Canada develop a comprehensive approach to CFTPP developing states as a way to brunden its economic diversity in Asin.

In perallel, Canada would benefit from building on its CPTVP relations in Southeast Asia to develop a sub-regional approach to expanding trade. Counda should predicate this approach on expanding Canada's PTAs with Singapure, Brunet, Maloysia, and Vietnam (CPTVP member states) to all of ASEAN – an outcome that would give Canada greater economic access to 648 million consumers with a combined economy of US\$2.8 trillion.<sup>20</sup>

Canada should also look in its outbound investment data in the Asia Pacific to better understand where and how Goodian firms are investing in Asia so to better position the Canadian government to support broader engagement. According to APF Canada's Investment Monitor data for 2019, for instance, while Canadian firms continue to invest primerily in the 'radiitional' economies of Australia, Chine, India, Hung Kung, and Vietnem, Canadian investment in Asia is becoming more diversified with investment growing in South Koren, Singapore, and Japan. Canadian investment is also expanding to emerging markets including Bangladesh and in second- and third-tiered cities throughout the region. As of 2919, Canadian firms have invested in more than 465 Asian cities across the industry, real estate, utilities, and financial service sectors.<sup>10</sup> Notably, Canadian investment in ull and gas has decreased while investment in renewable energy has increased.



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This suggests that Canada would do well in support Canadam investment in non-traditional partner countries and across emerging economic sectors in facilitate broader investment diversification in Asia. Canada could accomplish this by supporting Canadian firms to invest in Southeast Asia, for instance, in line with its approach to expanding trade in the sub-region. As with trade, Canada could accomplish greater investment diversification through greater economic integration with ASEAN, whether formally through on FTA or informally

#### BUILDING A 2020 CANADA-ASIA STRATEGY

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through bilateral exchange, perhaps drawing on the CPTVP's torestment chapter for a framework for bilateral and/or multilateral investment co-operation.

Lastly, Canada can work in identify and to support regional development priorities, particularly around infrastructure intexamentivity and small and medium sized enterprise development, both of which are development priorities among regional states. Canada can accomplish this through bilateral engagement, utilizing its development aid to help countries achieve their millennium development goals, or through multilateral channels, such as the Asian Infrastructure Investment Bank or Asian Development Bank. Notably, while some Canadian pulley-makers are bestight to engage with the ABB because of China's central role in the organization's founding and development, regional perceptions of the AIIB are largely positive and Canada's current role as one of 12 rotational directors of the AID's Board of Directors (through 2021) gives it a unique opportunity to ensure the institution's regulations are in line with Canadian norms and volum.

#### DECREASE DEPENDANCY ON THE U.S.

Central to any diversification strategy for Canada is the need to decrease its dependency on the United States economy for trade and investment. The U.S. remains Canada's most important economic partner at present, with more than 73% of its exports going to the U.S., more than 46% of its imports coming from the U.S., and more than 46% of oregal. FOI into Canada coming from the U.S., " Long held as a position of economic advantage for Canada, such dependency comes with opportunity cost, particularly with regard in Canada's economic relations in the Asia Pacific. Whereas Australia – a country of statilar population and economic size – has successfully diversified its economy away from dependency on the U.S. toward integration with Asia, with its intra-Asian trade increasing by 85% over the past five years alone, Canada remains an exclusively North American economy.<sup>20</sup>

There are three primery reasons Canada should earnestly pusses a strategy of economic diversitication away from the United States: one economic, one political, and one security related. Economically, dependence on the U.S. results in Canadian underdevelopment, as it exports raw nationals to the U.S. (crule petroleum, aluminum, and agri-food) and imports menufactured goods (such as electronics, cars and trucks, and chemical products). This is not in suggest Canada's economy itself is underdeveloped, only that within its bilateral commutic relations with the U.S. it remains a provider of natural resources and a consumer of value-added goods. Decreasing its relative on menufactured goods from the U.S. would allow Canada to develop

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further its own domestic industries, which it could then export in Ade as part of its brand diversification strategy.<sup>20</sup>



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Pulitically, comunic dependency exposes Canada in coercise," whether directly in the form of sizel and aluminum tariffs or indirectly through threats of economic retaliation should it chose to oppose the U.S. in its foreign policy goals. Most recently, one can see this behaviour in the Tramp administration's demond that Canada renegotiste the North American Free Trade Agreement (NAFTA) and include a clause (32.10) that limits Canada's autonomy in establishing trade relations with 'non-merket' states, a 'poisoned bill' condition that severally limits Canada's ability to enter into an economic agreement with China.<sup>10</sup> Hear of economic retaliation also limits Canada's room to manoeuvre on issues such as the detention of Hoswei Chief Financial Officer Meng Wanzhou, even within Canada's own legal system. These limitations have

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serious implications for Canada's broader relations in the Asia. Pacific, particularly with China.

With regard to security, Canada's economic dependency on the U.S. undermines its automony and, as such, prevents it from achieving its national interests. While a controversial point, one can argue that Canada's current downturn in relations with China is the direct result of U.S. influence over aspects of its dementic institutions, primarily with regard to law enforcement and extradition. Prior to the decision by local customs and law enforcement officers to detain Meng Wanzhou in Vancouver in December 2018, Canada was actively pazzuing deeper economic ties with Chine, including a potential bilateral FTA. After her detention, and China's retailation and arbitrary arrest of two Canadians, Canada-China relations broke down, with an enormous cust in Canada and an equally enormous benefit to Washington. China now views Canada as a dependent actor, accusing it of singing a dust' with Washington, a viewpoint that places Canada dearly in China's retailatory 'crossbairs' with no henefit for Canadian Interests.<sup>50</sup> Canadian perceptions of China have also turned sharply negative, with only 29% of Canadiana holding positive views of China in 2018, down from 36% in 2017.\*\*

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# MAINTAIN AND DEEPEN ECONOMIC TIES WITH CHINA

What less than a year ago was accepted wisdom has now become a controversial point in need of new justification and defence. To be certain, China's detention of two Canadians on charges of espinnege and Beijing's willingness to engage in hostage diplomacy to ensure its own national interests does roise serious concerns over Beijing's foreign policy and its willingness to use direct oversion. Indeed, Beijing's post behaviour with economies including South Kores, Japan, the Philippines, Norway, and Taiwan suggests that any economy parsuing doser relations with Chine must do so with the dear understanding that China's domestic institutions allow it to engage in behaviour other states generally work. Any economy that engages with China must, therefore, do so with dear -eyed zelism, understanding that for Beijing politics and economics are two sides of the same coin.

The realization that bilateral relations with China are challenging should not, however, prevent the Canadian government from engaging with Beijing. Nor abould Canadian policy-makers succomb to the fil-informed advice of commentators that China is 'noo different' to work with and that it should 'double down' on its relations with the U.S. to counter China. There is nothing inherently 'different' about China that should prevent strong Canada-China relations. Neither is China the only country to use coextion against Canada for pulitical ends. One need lunk no further then the Trump administration's steel and aluminum tariffs for evidence of U.S. coercion, designed to achieve a political rather then an economic outcome. There is nothing inherently 'different' about China that should prevent strong Canada-China relations. Neither is China the only country to use coercion against Canada for political ends.'

Canada's own Export Development Canada (EDC) continues to rate China as a 'low risk' country that is open for Canadian businesses.<sup>30</sup> Aneolotally, Canadian businesses largely report that work in China is 'business as usual,' despite the relative breakdown in state relations. People-in-people relations also remain robust, with record numbers of Chinese students coming to Canada for higher education and, according in APP Canada's public opinion polling, the majority of Canada.<sup>54</sup>

In line with these realizations, it is in Canada's best interest to continue developing deep economic ties when and where doing so is in Canada's national interest. Clearly, Canada can benefit from trade, investment, and joint research and development with China, so much so that the EDC believes China could become Canada's largest trade and investment partner by the end of the 2928s.<sup>20</sup>

# NAVIGATING POLITICS AND ECONOMICS IN ASIA

For Canada to act on these basic elements of a 'broad diversification' strategy, it must come to terms with the overlap between economics and politics in the region. In line with the global aztigetst of anti-globalism, or economic nationalism, the Canadian government must accept the unfortunate reality that its political choices will influence its economic opportunities in Asia, particularly with regard in its relations with the U.S. and China. Leaders from the U.S. and China have both indicated, for example, that they view their bilateral relations with Canada through the lens of orgoing U.S.-China tensions to the extent that Canadian political support for one will come with an opportunity cost for the other.<sup>#</sup>

The Canadian government must allocate resources in better understand its strategic and operational contronment in order to support its broader economic engagement. Orgoing participation in regional strategic dialogue forums like CSCAP or the EAS, for instance, would provide Canadian policy-makers and academics access in regional strategic thinking with reference back in its economic involvement in Asia. Canadian policy-makers can then consider regional strategic views and perceptions when formulating the country's economic and political approach to the Asia Pacific. At the same time, Canada can and should look to countries like Japan and Taiwan for direction on how to manage a 'hot economic, cold politic' relationship with regional economies. Tukyo and Taipei both have extensive experience maintaining economic ties with their neighboring economies during times of political instability.



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In parellel, Canada must realize that for many Asian countries it remains an 'outsider' in that they perceive its interests in exclusively commonic terms and doubt its strategic commitment its the region. Canada's lack of involvement in regional political and/or security fore is at the heart of this perception, fairly or not, as is its relatively "light' diplomatic presence in Asia. To put this into perspective, Canada has one military attaché operating in India – a high-priority country with more than 1.5 billion people – whereas lanel, a country with one-finarth of Canada's population, has over 361 Similarly, where Australia allocates resources to promote 'brand Australia' throughout Asia, the regional perception is that Canadian relations do little to comparison to promote understanding of Canadian values and culture.<sup>60</sup> While such efforts may sound trifting, Asian states

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place value on such engagement and Asian populations rely on such activities to learn more about 'Western' states. Canada's lack of regional non-economic activity leaves the country relatively isolated, to the degree that many institutions and/or think-tanks in the region that study Asian state relations do not consider Canada an 'Asian' country.

To address these concerns, and to demonstrate a deeper regional commitment than simple commits relations, the Canada government should undertake the non-commits activities within the region described above. These include participation in regional dialogues, engagement with strategic initiatives, and, above all else, establishing a permanent, noticeable presence within the region's multilateral strategic forums, perhaps emulating the Australia model.

# THE DOMESTIC CONTEXT

While it is beyond this policy paper's scope in examine the anaplex interplay between Canada's domestic and foreign policy, it is, never theless, necessary to consider several domestic variables that do influence the direction of Canada's foreign policy development toward Asia. Principal among these are Asian dissports and Asian immigration in Canada, Asian students and their influence on Canadian higher education and research and development, and Asian investment into Canadian industries, particularly around areas Canadian law enforcement and/or intelligence deem sensitive and assorptible to foreign influence.



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#### DIASPORAS AND IMMIGRANTS

With regard to Asian disspons, Canada should work closely with key organizations and individuals to help facilitate greater economic linkages with Asia, to encourage greater people-topeople enchanges with various disspons' respective countries, and in develop 'Asia competence' within the broader Canadian population. Others can, and should, develop a national strategy for disspon engagement that provides specific mechanisms for information abaring (town balls, for example) and advocacy designed in advance both the community's and Canada's shared intexasts. Central in this approach is the government developing a more manced understanding of disspore constituents and dynamics, as many disspore communities are less homogeneous and far more complex in terms of group dynamics than they may appear at first glance."

'Ottawa can, and should, develop a national strategy for diaspora engagement that provides specific mechanisms for information sharing and advocacy designed to advance both the community's and Canada's shared interests.'

One carrent in this approach is the government's need to better understand chappers pulltics and the dissparse' relations back to their countries of origin. While people-to-people ties are torebachle in supporting Canada's bilateral relations throughout Asia, dissparse are not necessarily the only less through which

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Canada abraid view its bilateral relations or define its national interests issued a partner country. Although important contributors to the Canadian social fabric, Canada's sizable Silch community does not represent the only voice in Canada-India relations. India is a large and diverse country with many languages, coltures, and regional ethnicities. Pavoaring the interests of one disspore within the Indo-Canadian community over the others in the bilateral relationship has impacts domestically but, also, on the foreign policy relationship with India. The Canadian government must around letting domestic disspore politics apill over thin bilateral foreign relations.

With segard to Asian immigration, the Causda government should continue in support high-skilled individuals into Causda to strengthen its people-to-people ties in Asia and to support its economic development. According to a 2010 AFF Causda public opinion pull, the majority of Causdians support high-skilled immigration from Asia – regardless of country of origin – as they see it as essential in building Causda's high-tech domestic industries.<sup>10</sup> The Causdian government should work to attract this talent, particularly at a time when other countries, especially the United States, are decreasing Asian immigration in line with growing nationalist sentiments. Such measures could include the continuation of a work vise/permanent resident scheme for foreign students who complete courses in Causda and express entry for those with advanced degrees and work experience.

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# FOREIGN STUDENTS AND HIGHER EDUCATION

More than 60% of foreign students studying in Canada come from Asia, with students from China and India accounting for 50% of initial foreign students.<sup>20</sup> As with the United States, Australia, the United Kingdom, and New Zealand, Canada's domestic universities benefit largely from this foreign student inflow, both in terms of revenue generated and talent acquired. As of 2019, foreign students contributed more than C\$21 billion to the Canadian economy, resulting in more than 190,00 fulltime jobs.<sup>40</sup> At the university level, the increase in revenue from foreign students can result in more generous scholarships, greater resources for research and development, and more threasity within a broader student budy.

To both support and to namage foreign students coming to Canada from Asia, the government must consider the following issues. First, there is a clear strategic need to diversify foreign students away from Chine and India to include students from alternative destinations in Asia including Vietnem, Thailand, the Philippines, and Indonesia, among others. Overrelance on Chinese students for revenue, in particular, is a strategic weakness for Canada as the Chinese government has shown it is willing to use government control to restrict Chinese citizens' overseas activities for strategic ends. A 2019 report on the subject noted that three of Canada's largest universities – University of Toronin, the University of British Columbia, and McGill University – would experience 'astastrophic' financial shortfalls in the event Chine restricted its citizens from studying in Canada.<sup>42</sup> There is a clear strategic need to diversify foreign students away from China and India to include students from alternative destinations in Asia."

To address this strategic volcershill ty through student diversification, the Canadian government has two choices. Ottawa can impose Imits on foreign students from any onecountry to decrease their overall percentage of total foreign students, or increase the number of students from alternative source countries. As imposing cellings on student visus based. on the applicant's country of origin is a lose-lose scenario for both universities and students, increasing students from lessrepresented source countries is the preferable option.<sup>40</sup> To this end, the Truckeus administration took some initiative in 2019, providing around C\$30 million over fire years for recruitment. activities in Ada (and Latin America) to attract name foreign. students.\*\* While certainly an important start, expanding recruitment alone will not address the imbalance within Canada's overseas student population. Rather, Canada could learn from New Zenland and provide direct merit-based scholarships to students from Southeast Asia – many of whom cannot afford to study to Canada - as well as support for the application. process through country-based outreach.<sup>40</sup> Canada could also provide acholarahips and paths to citizenship for Asian doctoral candidates, particularly those working in sectors where Canada has high demand for employment. These types of approaches unid achieve Canada's student diversification strategy, raise its profile within Asia, and contribute to its domestic economic growth through high-skilled immigration.

Second, Canada needs to develop a strategy in regulate foreign. student involvement in domestic research and development within higher education, particularly within fields that its security services deem 'sensitive.' Concern over Chinese students' involvement in domestic research, in particular, has become a central issue in the U.S., Australia, and the U.K. - countries where student incoherent in research and development has traditionally been under-regulated. Many of the same concernathat drive debute within those countries exist in Canada. This is not in suggest that Canada engage in country-of-origin profiling around its province- or university-spinsored research and development programs, only that it establish dear guidelines for foreign participation that it applies to all international students. involved in such activity. Options could include interim security descences or monitoring of foreign sindents' work-related. communications during their research tenure. While such policies are operate and intrusive, they are preferable to a complete bars on foreign involvement in research and development, which is the policy direction in countries like the U.S. that struggle with the balance between foreign involvement and explorage."



Source: Photo by Hike Share on Unspiseh

THE DOMESTIC CONTEXT

# FOREIGN INVESTMENT IN CANADA'S DOMESTIC INDUSTRIES

According to APF Canada's 2019 pull on Asian Investment in Canada's high-tech sector, Canadians are, by and large, receptive to foreign brownfield and greenfield investment in Canada, with the exception of Chinese investment in the country's telecommunication and resource sectors, per ticularly by stateowned enterprises." Concern around China's involvement in telecommunications comes primarily from media reporting on Hoswei, as well as the Trump administration's forceful. position that the U.S.'s alles and partners exclude Hursei from their telecommunications industry or face the prospect of an intelligence-sharing ben.<sup>12</sup> The 2019 poll also aboves a majority of Canadiana (54%) believe the federal government lacks the ability to conduct risk-benefit analysis around Asian investment. and that decisions to ban foreign investment on the basis of national security is too secretive and lacks transporency (81%). This data suggests the challenge for Ottown is not providing greater oversight over Asian investment into Canada, but rather demonstrating to the Canadian public that its deliberations include risk analysis and are open in enternal scrutiny.

The challenge for Ottawa is not providing greater oversight over Asian investment into Canada, but rather demonstrating to the Canadian public that its deliberations include risk analysis and are open to external scrutiny."

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#### THE DOMESTIC CONTEXT



Sources Gotty Images

The APP Canada poll also notes that 66% of Canadians see Asia as the global leader in science and innovation in the near fature. More than 70% of respondents farmer the government supporting greater Asian investment to research and development (a trend that is at odds with concerns over Asian students and R&D), particularly from Japan, and developing a stateled approach to encourage Canadian-Asian co-operation in innovation and research. Taking note of these findings, the Canadian government could work to encourage Asian investment in Canada's high-tech sector, with the understanding that it should also develop a transparent means of determining the national security implications of such investment, so long as doing so does not undermine its intelligence capabilities.

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#### IGNORE THE SCAREMONGERING

Within Canada, there is a vocal cohort of academics and analysis who write on the deleterious effects of China's influence on the country's domestic institutions. They argue that China's activities – both overt and covert – are challenging Canadian sovereignty and undermining Canadian values. In contrast to the Australian and New Zealand cases, where analysis have clearly documented Chinase attempts in develop influence through political funding and/or pressure campaigns, the evidence for such Chinase activities in Canada is there – but to date, limited.

'Ottawa should treat unsubstantiated, anecdotal reporting on Chinese influence operations in Canada as a call to develop Asian literacy in the country rather than a call to arms.'

Furthermore, Beijing's ability in 'buy' political influence in Canada is held in check by domestic laws that prohibit foreign campaign funding and ensure transparency under the 2018 Elections Modernization Act. Neither is these compelling evidence that China or any other Asian country is working to influence election outcomes through social media, although Ottawa should (and is) monitoring sizes including Facebook and Twitter for foreign aponamed content. Canada must not turn a blind eye in foreign activities within its burders that could ultimately result in influence development; indeed, Canada should maintain vigilance over this foreign activity. But at present, China has not differentiated itself as a particularly malign actor within Canada's domestic context. Others should, therefore, treat unsubstantiated, anecdotal reporting on Chinese influence operations in Canada as a call in develop Asian literacy in the country rather than a call to arms against one of the country's must important partners.



# CONCLUSION



here is no simple formule the Canadian government can follow to develop a grand strategy toward Asia. Canada's interests within the region

are diverse and, in some instances, conflicting. Engagement with China – long a government strategy for examine and political diversification – requires an acceptance of the interplay between politics and economics, something Ottowa has been loath to do in the past. Engagement with countries like Myanmar, Cambodia, Thatland, and Vietnam also requires a name realpolitik mindaet for Ottawa, as these countries all eachew democracy for eathoritarianism. Under U.S. pressure, democstrating automousy in foreign policy isward Asia, particularly China, will carry certain custs for Ottawa. As such, the best any Canadian government can do is develop a comprehensive approach to Asia that balances its interests and values and seeks to minimize casts while maximizing gains.

While APF Caunda believes there is no one clear approach to Asia that is 'correct,' it does advocate informed policy making that takes regimel dynamics into account. This brief has identified what APF Caunda believes are the overarching conditions within Asia that Caunda must navigate when developing an Asia strategy and has provided parameters around the policy decisions it believes any government must consider. In defining these parameters, APF Caunda has used Caunda's national interests as a goide, focusing on the cure issues of security, sovereignty, and economic growth which, it believes, all Caundam policy-makers will support. As such, policy-makers should treat this policy paper as a gakle open which they can build a distinct strategy; one that accords with their values and intentions. While it is beyond this brief's scope in spell out such specific policy directions, it provides a starting point for informed discussion from which any government will benefit. Report prepared by:

## Dr. Jeffrey Reeves, Vice-President, Research, Asia Pacific Foundation of Canada

For none information, contact: jeff.corres@asiapacific.ca

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# MARKET INTELLIGENCE AND POLICY RESEARCH

Cleantech Market Opportunities in China



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### EXECUTIVE SUMMARY

Chine has achieved remarkable economic growth in a few short decades, but at the cost of a deteriorating surrironment. In recent years, the Chinese government has embedded environmental protection and green development into its growth strategy in an attempt to mitigate this damage. Chine has made comprehensive plans and enacted new policies to deal with pollution and committed considerable resources to key regions and cities.

These commitments are contributing to the rapid growth of China's cleantech market; investment in the environment sector has beened in recent years and is expected to continue to grow in line with China's strong GDP. There were more than SD,GDD cleantech companies in China in 2016, and that number continues to rise. China now ranks globally as the top market for air, water, and soil remediation technologies. Sewage treatment, air pollution, and solid waste account for more than 95 per cent of China's cleantech industry, while the remediation of contaminated soil is projected to soon be the fastest growing sector. Despite the rapid development of China's cleantech sector, demand outpaces supply.

Canada, meanwhile, excels in the cleantech sector – particularly in water and wastewater treatment, solid waste management, soil remediation, and air pollution control. Canada is strong in the meanwh and development stage of cleantech, but not so when it comes to commercializing the technology. When it comes to doing business with or in China, Canadian companies need to invest more in astablishing a presence, deepening angegement with Chinese partners, and better understanding the Chinese regulatory and business environment.

Information on China's environmental changes at the city level will help Canadian cleantech companies looking to invest in China. Opportunities are immense in major cities across China, but some cities leg behind in terms of their environmental protection performance, providing both challenges and opportunities to potential investors. Similarly, the national government has targeted key regions for pollution control, and local governments differ in their investment and efforts for environment protection, creating an uneven investment landscape for Canadian cleantech forms looking at markets in China.

This report identifies five provincial capitals in China as areas of focus and potential interest for export-ready Canadian clean tech firms. The five cities were identified based on the severity of their pollution problems, their historical environmental performance, and their ability and willingness to integrate local and national government policies. The cities of focus are: Shijinghuang and Xian for air, Shanghai and Chongqing for water, and Kuoming for solid waste.

### **METHODOLOGY**

The research for this report was conducted from January to March 2019. It consisted of three sets of activities:

- The first consisted of reviewing publicly available information, documents, and analytical articles on China's environmental policies and its cleantech market, and development of Canada's cleantech industry;
- The second involved consultations with the Canadian cleantech community. Information solicited from roundtable discussions with representatives from industry, government, and experts in Vancouver, Montreel, Torunto, and Calgary provides Canadian perspectives on Chinase market opportunities; and
- The third was a quantitative assessment of China's environmental protection performance. Environmental data from China's 31 provincial capital cities were analyzed to assess changes in performance between 2013 and 2017. Different sets of indexes reflecting air and water quality and solid waste management were taken into consideration to determine where cleantech goods and services may be in demand.



### INTRODUCTION

China taday is at a historical juncture. After decades of high but unsustainable growth driven by polluting industries, the economy is dramatically transitioning toward a high-quality, innovation growth model that emphasizes green development. This transition underfines China's desire to become an "ecological civilization" and a global player in addressing climate change.

As China has been steadily moving toward a greener future, Canada has been investing in and promoting clean technologies at home and for the international market. This has easiled Canadian cleantech companies to support Canada's transition toward a lowcarbon economy and cleaner environment, as well as to be better positioned in the global marketplace. China represents the largest international market for clean technologies. This presents Canadian firms with transmitms opportunities, as well as challenges to scale up and compets in this marketplace.

This report analyzes China's transition and progress toward a green growth economy and the implications this has for Canada–China co-operation in clean technology. The aim of the research is to analyze China's environmental protection performance and assess where the best opportunities for Canada's cleantech exports and investment can be found.

Where to do business is a question Canadian small and medium-sized enterprises (SMRs) often ask when looking at the vast and immensely competitive market in China, in all its complexity. For the deantech industry, this usually means going to where there is the most demand for the type of product or service being marketed. The research seeks to address this question. Using data from the China Eco-City Tracker project from the Asia Pacific Foundation of Canada (APF Canada), it identifies priority markets at the municipal level for clean technologies focused on air pollution, water quality, and solid waste management. Soil remediation is also discussed.

The report comprises the following sections:

- Green Growth and Cleantech Market Opportunities in China: an overview of China's transition toward a green growth economy, policy restructuring, and cleantech market development;
- Canada's Clean Technology Industry: a seriew of Canada's cleantech industry, its presence in the cleantech market in China, and opportunities and challenges;
- Environmental Performance of Chine's 31 Provincial Capitals: an assessment of environmental protection performance in Chine's provincial capitals, and trends with respect to air, water, and solid waste management; and
- Identification of Priority Markets and Recommendations: priority market areas are identified for further study relating to air, water, and solid waste disposal technologies. Recommendations are made for facilitating Canadian elemetech business interests in China in these sectors.

### SECTION I: GREEN GROWTH AND CLEANTECH MARKET OPPORTUNITIES IN CHINA

China's rapid economic development over the past three decades has been remarkable. Today, China is the world's second-largest economy and the largest producer of industrial goods. The economy accounts for over 19% of global GDP, surpassing that of the United States, and close to half of global manufacturing employment.<sup>1</sup>

Chine's export-led growth model has yielded huge economic dividends, but to the detriment of the corriconment and human health. Inefficient resource consumption and a heavy relince on coal to drive industry have made Chine the world's largest pollutar of air, water, and soil. The World Bank conservatively estimates the cost of environmental pollution to be in encass of 6% of its GDP.<sup>1</sup>

#### 1. China's Transition to Green Growth

Chine has not been oblivious to environmental concerns since its industrial transformation. The first Environmental Protection Law was passed by the National People's Congress in 1979, and a National Environmental Protection Commission was established in 1984. However, during the early reform years, economic growth was given much higher priority than environmental protection. As a result, there were few incentives to take corrective action, and policy implementation proved week.

Environmental protection began to show prominence in China's 11th Fire Year Plan (2006-2010), marking a turning point in environmental policy-making.<sup>4</sup> The 12th Five Year Plan (2011-2015) took this further, with measures for shutting down beavily polluting industries and developing a series of action plans to tackle air, water, and soil pollution and waste disposal. Premier Li Keqiang's declaration of a "war on pollution" at the annual meeting of the National People's Congress in 2014 signalled an important change in the government's approach to the environment, ushering in stringent protection measures and enforcement to tackle the three battles of air, water, and soil.

Today, the corriginmental agends has moved to the forefront. In the 13th Five Year Plan (2016-2020), corriginmental protection and green development are embedded within China's growth strategy. The plan prioritizes structural reform of the economy and states that the principle of an "ecological civilization" will guide China's growth and development. It sets ambitious targets to control carbon emissions and eliminate polluting industries, improve water quality, address soil contamination, control waste, and develop green infrastructure. Furthermore, it lays the foundation for mainstreaming green growth across the economy via industrial policy, green finance, and market reforms to promote clean technologies as new economic drivers.

#### Environmental Protection Policies and Action Plans

Over the years, China has enacted a relatively comprehensive legal framework for environmental protection, beginning with the Environmental Protection Law. The legal regime pursued and of pipe cleanup approaches to dealing with pollution. It was not until the shift in economic thinking that China began to develop forward-looking action plans.

#### Air Pollution

Air pollution is the most prominent public concern in China. Geographically widespreed, it affects all major cities, and especially those in the northeast industrial belt. The first Air Pollution Prevention and Control Action Plan was released in 2013. It embedded targets on air quality improvement into government officials' performance, prompting local governments to pay close attention to implementation. The plan set nation-wide sub-goals with priority given to the urban conglomerates in the Yangtze River Delta, the Fearl River Delta, and the Beijing-Tianjin-Hebei (BTH) region.

In June 2018, the State Council released its successor, the Three-Year Action Plan for Winning the Blue Sky War, which set new targets for air quality by 2020. The plan expands the geographic scope to include 82 new cities and new regions where pollution is heavy, including the Feo-Wei Plains<sup>1</sup> and areas adjacent to the BTH region, such as parts of Shanxi, Shandong, and Henan.

#### Water Pollution

Water pollution is widespread and particularly acute in cities. About two-thirds of China's cities suffer from water shortages and severe contamination. China's Water Pollution Prevention and Centrel Action Plan, issued in 2015, puts tight controls on polluting industries and includes strict supervision. For surface water, the focus is on improving water quality in seven major river systems: Yangtze, Yellow, Fearl, Songhua, Huai, Hai, and Lian. For groundwater, the focus is on treatment and control in all 31 provincial capitals and directadministered municipalities.

#### Soil Contamination

Soil contamination, up until recently, has not received as much attention. However, soil pollution is very serious because of its complex interactions with groundwater and find production. A government survey in 2014 estimated that one-fifth of farmland is heavily polluted.<sup>1</sup> In 2016, the State Council released its Soil Follution Prevention and Control Action Plan; in 2018, the Soil Pollution Prevention and Control Law was exacted. The Action Plan sets two major targets – one for 2020 and the other for 2020 – to attain the safe utilization ratio of contaminated lands. A National Soil Pollution Survey is currently being undertaken; by next year, "an assessment of the distribution of all contaminated land by key polluting enterprises and their environmental risks will be complete."

#### Solid Wests Management

Solid waste has been expanding at a high rate, pasing health and food safety concerns. Disposing of it has become a major challenge. Four solid wastes – municipal, industrial, hazardous, and agricultural – are disposed of largely by incineration or landfill. However, less than 6D% of hezardous waste is safely disposed of, and more than 3D% of cities do not have disposal facilities for medical waste.<sup>1</sup> China does not have an action plan for solid waste, but there are multiple laws and regulations governing it, including the Solid Waste Pollution Prevention and Control Law (2015 revised). The adoption of resource use policies, such as the Circular Economy Promotion Law (2019), has increased the utilization rate of industrial and residential waste, but increasing volumes pase major challenges to municipal governments.

Municipal wasts, including wasts electrical and electronic equipment, is the fastest-growing wasts stream in China. Wasts collection and recycling is dominated by small-scale collections and informal recycling facilities. Throughout China, the government is introducing modern recycling plants, but the management system is in need of modernization. At present, most bazardous wasts treatment facilities are small-scale enterprises with low capacity.

#### Ban on Foreign Wests

Up until very recently, Chine's solid waste pollution was compounded by the importation of foreign garbage, where regulatory controls were lar. The government has now taken decisive action and implemented a complete han on imported waste – Implementation Plan on Banning Entry of Foreign Garbage and Reforming the Administration System of Solid Waste Importation (2017) – effective as of 2018. This stops the importation of all waste (China was previously the world's largest importate) and significantly reduces environmental damage caused by waste pollution.

#### Environmental Protection Tax

A market-based instrument introduced in 2018 to advance China's green growth reforms is the Environmental Protection Tax Low. This is China's first green tax specifically designed to shift the system of pollution discharge fees into a system of taxes, thereby incentivizing enterprises to not just control pollution, but to switch to cleaner alternatives. The tax is also designed to help shift China's manufacturing industry toward technologically advanced and eco-friendly businesses.

#### Green Financing

Complementing fiscal levers, China is quickly developing green financing instruments. Green credit systems extending financing for environmental protection and green projects are shaping new market niches. The system is being developed to regulate access to finance in terms of compliance with environmental standards. Government is also promoting environmental liability insurance for companies to manage environmental risk. The People's Bank of China recently launched green bonds into China's financial system, with more than 90% of transactions being conducted by state-owned enterprises. This size and scope of China's green financing system has made it the world leader.

#### Co-ordinated Regional and Urban Green Development Approach

Green growth is also encapsulated in China's approach for co-ordinated regional development and urbanization.<sup>4</sup> Priority is given to implementing co-ordinated green development in:

- The Beijing-Tianjin-Hebei region for the establishment of ecological corridom/zones;
- The Yangtze River Delta to protect water resources and control water and soil pollution;
- Clean energy transformation in city clusters in the Ren-Wei Plains; and
- Water remediation in the Pearl River Delta region.

Resources are also being committed for the greening of cities and new urbanization, including the development of:

- Smart cities to make full use of new technological drivers for green growth, the development of the internet of things to promote efficiencies and green development, and green infrastructure;
- Green eco-cities and forest cities projects incorporating green principles and practices in city planning and uses of resources; and
- Zero-waste cities projects that aim to minimize waste produces and strengthen recycling and urban solid waste management.

#### 2. Market Opportunities in Cleantech

China's commitment to green growth has made it the largest and fastest-growing market for clean technologies in the world. Investment in the environmental sector is reported to have reached a trillion dollars, an increase of 21% year on year,<sup>10</sup> constituting over 2.5% of GDE China's investment in cleantech and renewable energy encode the combined investment of that of the United States and Europe, making it the global leader. In addition, China today dominates in the provision of smart technology, such as smart metering, and is prised to lead the global industrial internet of things, linking it to environmental services.<sup>11</sup>

China's rapid expansion in the cleantech market is also seen in the growth of its companies, rising from around 3,000 in 2005 to over 50,000 in 2016,<sup>12</sup> with that number being even higher today. Chinase companies top the list of the Clean 2Ki company roster, and the country ranks globally as the top market for air, water, and soil remediation technologies.<sup>14</sup>

#### Market Development

China's market for clean technology is responsive to policy, and government investment aggressively drives the market. Green investment needs are estimated to be between US\$450B and US\$600B per year, and this is expected to grow in line with China's GDP in the short term.<sup>14</sup> However, public funding is not sufficient to meet more than a quarter of domestic domand. The development of green financing mechanisms and new instruments is helping to reduce this gap and to encourage greater marketization of green development as part of China's new market reforms.

Market barriers have been a longstanding complaint of foreign investors of the Chinese economy. However, barriers are slowly croding as China deepens its market reforms. The new Foreign forestment Law that takes effect on January 1, 2020, is a significant step toward protecting investors and strengthening the intellectual property (JP) regime. The Ministry of Commerce's Industry Catalogue for the Guidance of Foreign Investment (2017) lists receivable energy and the cleantech sector as areas where foreign investors are permitted to establish wholly foreign-owned enterprises. And as inducements for Chinese companies, the State Council, in its 2016 Catalogue of Encouraged Imported Technology and Products, grants local companies import purchase discounts for a variety of cleantech products.

Despite these trends and the size of the market, the cleantech industry in China is still in a development stage. Industries have a relatively low degree of concentration compared with OECD countries, and many enterprises are still small in scale with no clear market leaders.<sup>15</sup> For example, the Hong Kong Trade Development Council finds that "in the mainland market for urban domestic sewage treatment, the top 10 enterprises take up only 27% of the market share." Chinase cleantech enterprises are keen to co-operate with international companies, not just for technology transfer and N&D, but to improve managerial capabilities, enhance co-operation in international markets, and to seek opportunities to capture supply chain niches.

#### **Cleantech Sectors**

The cleantsch market in China is broad and complex, and each sector is unique and operates in a different way. However, sewage treatment, air pollution, and solid waste account for over 95% of the total output value of the industry.<sup>10</sup> The remediation of contaminated soil, previously not given attention, is projected to soon be the fastest-growing sector.

#### Air Pollution

The scope for cleantech is wide, ranging from technologies to control industrial air pollution and motor vehicle emissions, to munitoring systems and equipment, to consumer products such as filters. And the market is large in all the industrial cities.

Coal is the single largest source of air pollutants in Chine, and the country relies on it to meet its energy demand. Reducing coal consumption is an overriding priority, but one that won't happen overnight. Replacement by non-polluting renevable energy sources is the direction the government is going, but until then, improved energy efficiency and cleantech solutions to emissions offer considerable market scope for the industry.

Over the past five years, the manufacturing of pollution treatment equipment and emission control technologies in China has grown by 15%, and the number of businesses by over 9%.<sup>17</sup> Industry revenue reached US\$3.3B for 2017. Companies holding the largest market share include Tianhan Group, China Datang Corporation, Pojian Longking Co., and Tsinghua Tongfang Rurizonment Co. The market for environmental monitoring has also kept pace, growing at 17% over the same period and generating US\$3.3B in revenue in 2017 above.<sup>10</sup>

#### Water and Westewater Treatment

The Clean Water Action Plan lays out targets to achieve water quality of Grade 10 (fit for consumption) in 70% of water in the major watershels and over 93% of drinking water sources in all major cities.<sup>10</sup> The plan establishes 26 detailed requirements and 238 measures to address industrial effluent, wastewater treatment, water reuse, and improved monitoring systems. The implementation of activities is valued at approximately US\$9208.

There is also a requirement to upgrade existing plants and to introduce new chemical and biological methods. Key technologies in demand include advanced filtration and membrane systems, nitrification and biological denitrification, waste bandling equipment, and the enhancement of management and monitoring systems.

The plan also sets targets for water efficiency and reuse to combat water scarcity, specifically in coal mining and in the metals, textiles, pulp and paper, chemical, and petruleum industries. These priorities provide particular inducement for cleantsch solutions in membranes and advanced filtration, digital water control systems, and a range of minitoring and engineering consulting services. It is estimated that the membrane technology market will grow around 30% annually over the next five years in response to these policy drivers.<sup>10</sup>

Chine's westewater treatment market is currently valued at approximately US\$508, growing at a compound annual rate (CACR) of 6.7%. As the management of water pollution strengthene across China, industry revenue is especial to grow even faster, as well as the number of businesses emerging in the sector (currently increasing at 6%). Companies holding, the largest market share include Shanghai Foxin Aijian River Control, AquaMata Holding, Changquing Water Group, Beijing Capital, and Beijing Gunhuan Tsinghua Environmental Engineering.

In the water resource management sector, revenue has also grown at approximately the same level, reaching over US\$3B in 2D18. Companies with the largest market share include Goanglong Investment Ltd., China Water Investment, General Water of China, Sound Group, Shanghai Municipal Raw Water, and Beijing Capital.<sup>21</sup>

#### Waste Management and Recycling

Solid waste disposal and repurposing or recycling constitutes a large but segmented market in Chine. Of the waste collected in urban municipalities, most of it is landfilled, incinerated, or composted. Recycling of bousehold waste is relatively low, and within the sector varies greatly between industries and in how it is reported. Electronic scrap waste recycling is quickly growing but is dominated by small-scale collections and informal recycling facilities. Plans are underway to establish modern recycling plants across China, but this is still at an early development stage.<sup>22</sup>

With respect to becardous industrial waste, over 6D million tons are generated annually, most of which is not treated properly.<sup>22</sup> Hazardous waste treatment facilities are generally small enterprises with low capacity. Disposal capacity is estimated to be approximately one-third of waste collected. Funds have been allotted for the construction of 3KI hazardous waste disposal facilities and to initiate brownfield remediation projects in China.<sup>24</sup>

The bazardous waste management industry in China has grown close to 9.5% over the past five years, generating revenue of around US\$3B. The scope for accelerated growth is large given the small scale of the industry. Companies currently holding the largest market share include Doogjiang Rovironmental, China Everbright International, Sound Group, Shemben Green Reo-Manufacture High Tech, and Yonker Rovironmental Protection Group.<sup>26</sup>

#### Soil Remediation

Soil treatment is a growth area with large technology and finance gaps. Industrial pollution in brownfields and farmland contamination caused by polluting industries – alongoide a lack of sanitary landfills – has made soil pollution the biggest but most neglected threat to China's ecology and economy. The Soil Pollution Prevention and Control Action Plan proposes a number of remedial actions, including the construction of six national pilot zones, over 200 pilot projects of soil remediation, and the establishment of monitoring systems and a regulatory framework.

Market scale and size is growing rapidly thanks to preferential policies for soil remediation. The International Institute for Sustainable Development (HSD) reports "as of May 2017, there were more than 2,600 companies with soil-related businesses, making it one of the bottest areas in the environmental protection industry."<sup>44</sup> It is expected that the market will grow to over US\$1008 by 2020. Soil remediation, however, is complex and costly. The HSD citas estimates of around US\$117 for remediation, but the government can only meet a fraction of that cost.

At present, there is a lack of comprehensive risk assessment and verification systems, as well as capacity in site investigations and remedial technologies. Various soil remediation technologies have been applied – such as soil leaching, in situ beating, and microbial chemical reduction – but more advanced interventions are needed that can be applied to the various contexts in China.

Many of the soil remediation companies are joint ventures with international co-operation. Companies holding the largest market abave include Jiangsu DDBS Environmental Remediation, Junmei Materials, BCEG Environmental Remediation, Yonker Environmental Protection Group, and CECEP DADI Environmental Remediation.<sup>27</sup>

<sup>1</sup>OED, 2018, China's Boguns Tounchs Grave, Gravith.

World Bank, 2007, Cost of Pollation, in China.

<sup>1</sup> China's five-purpletes (FFA) area as atomspic biospicies for China's scattering planning. The 11th FFF introduced the concept of analogy and welfand aroun important underscatted measures, including targets to make a calour endedow, teating wartwater, improving consistival solid worts, and providing access to under this important.

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<sup>1</sup> This includes Kims and other parts of Shourd province, Hence province, and Shourd province. See State Council, PEC, 2018: These Your Action Hencing Working the Kim Sky War.

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<sup>1</sup> In Frankton II. Juping's report to the 19th National Congress of the Communist Early of Chine, new patients of schemization, and explored development are to be gailed by analogical considerations and drivers for game growth. <u>http://anglish.gov.co/18th.</u> top:mgram/.

<sup>20</sup> Hung Kong Toola Development Council, 2018. China's Breisenmart Market.

<sup>2</sup> Institute for Barry Records and Hamaid Lodyis (IERA). 2018. Chief's Clobal Records Borry Byranica.

PWC. 2017, Chinese Cleantach Market Opportunities.

<sup>24</sup> Interactional Tools Administration, USA Department of Compares. 2017. 2016 Top Madate Report: Review mental Technologies, Chine; Institute for Revery Recommics and Humaris I Analysis. 2018. (Takes 2017 Levins)

\*Crisits. 2018. Opinions China Sata Stage for Wave of Grans Invariance.

<sup>2</sup> Hong Rong Tools Development Council, 2018. China's Invienzestal Market, https://doub.hitch.com/em/101021/5/ <u>bitch: encount/China6822589590: Invienzemental Market.</u> In CMCD countries, and communical protoction from our more concentrated and waitedly integrated, as for account the Vanile complements (<u>https://www.wolin.co/m</u>).

<sup>2</sup> Hong Rong Tools Development Council, 2018, China's Review mental Market.

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<sup>2</sup> Zhou, B., C. Sun, H. W. 2017. Solid Wests Disputed in Chinese Citizendo Reduction of Local Performance. Southinshility 2017. 9:2224.

<sup>2</sup> Solid These (August 15, 2017) expected that only 15% of China's basedous wasts is treated properly, and most of the remaining wasts is not treated properly (<u>http://www.com.co/2017/08-15/250925.shtm</u>).

<sup>2</sup> Interactional Tools Administration, 124. Department of Concenses. 2017. 2016 Top Markets Report: Review metal Technologies, Chine.

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<sup>20</sup> ISD. 2018. Housing Models for Soil Houselistics in China.

\* https://www.example.com/companies/asymptotical-parallelines/fithing/fithing/fithing/fithing/fithing

### SECTION II: CANADA'S CLEANTECH INDUSTRY: DOING BUSINESS IN CHINA

As Chine progresses toward a green growth economy and its cleantech market expands quickly, Canada has been investing in and promoting its clean technologies. Canadian firms have expertise that is in demand in Chine. However, challenges exist in doing business with or in the Chinese market.

#### 1. The Cleantech Industry in Canada

Canada is home to a variety of enterprises with competitive advantage in global value chains in the cleantach sector, including renewable energy, air pollution control, green transport, water and wastewater treatment, solid waste management, and suil remediation. There are around 850 cleantach firms, with total revenues enceading C\$138. They employ more than 55,000 people, most of whom are young and highly skilled.<sup>1</sup> Canada's cleantach sector is dubbed as the "nation's first new industry of the 21st Century" – a major growth sector with revenues growing anomally at over 10% and contributing around 3% to GDP. With better financing and market support,<sup>2</sup> the industry has the potential to contribute significantly more to the Canadian economy.

Canadian cleantech firms are internationally recognized as drivers of incorration. Ranked fourth overall in the Globel Cleantech Incorvation Index,<sup>8</sup> the industry draws more than 50% of its revenue from exports. Twelve Canadian companies are listed in the 2019 Global Cleantech 100 list.<sup>4</sup> The majority of Canada's cleantech firms are, however, SMEs. As small firms in a large international market, they are challenged with many issues of scale relating to innovation commercialization, market entry, profitability, financing, and organizational development (retaining talent and building capacity).<sup>6</sup>

#### Sectors with Proven Capabilities

Given Canada's small domestic market, deantech enterprises are highly export driven. And consisting mostly of SMRs, the industry is fairly segmented, not well vertically integrated, and focused on specific market sectors. However, Canada has innovation potential, and increasing conversion rates of innovation into outputs, supported by late single investments, are helping to more Canada firms into key markets.

Areas where Canadian firms have proven expertise in sub-sectors with market opportunities in China include:<sup>1</sup>

 Water and wasterester treatment: desalination; grey water treatment; groundwater remediation; heavy water treatment; membrane and tertiary treatment; munitoring and information technologies; and systems management;

- Solid waste management: e-waste; industrial waste; municipal waste; hererdous waste;
- Soil remediation: pollutant identification; non-extractive remediation; extractive remediation; and
- Air: filtration systems; emissions detection and control; monitoring and information, technologies; energy renewables.

In the water sector, there are a growing number of companies offering treatment and control management services using leading-edge technologies, such as UV systems, oridation, wastewater recycling, and their components.<sup>7</sup> Canadian expertise is strong in this sector, as exemplified by the depth of innevative products reaching the market, and the development of more vertically integrated industries, as can be seen with multinational companies in the sector (for example, Veola and SUEZ).

In the soil remediation market, Canadian enterprises are pioneering in new technologies that are in domand in China. Some of the leading commercial remediation technologies are in thermal soil remediation, chemical absorbent technologies, and in situ remediation.<sup>4</sup> Canadian firms also have proven international experience in sampling, monitoring, and filtration.

Canada's expertise in the air pollution sector is varied and growing in response to international demand. Services range from emissions and process manitoring systems to filters, oxidizers, and other industrial pollution control technologies.

In the sector of solid wasts management and recycling, Canadian firms have astablished international market presence in both product design and systems management. Cleantech firms are particularly active in research and innovation in bio-product technologies for recycling carbons into biofuels and chemicals, and municipal garbage into energy.

#### Challenges for Industry Growth

Canada's cleantech sector performs well in the early steges of innovation and has a fairly strong research ecosystem. Between 2009 and 2015, the industry spent over US\$78 in research and development, contributing to more than 3% of global cleantech research publications. However, the industry has not fared as well as other countries in commercializing innovation, as seen from its declining market abave in exported goods – from 1.8% to 1.3%, a 40% decline.<sup>6</sup> This contrasts sharply with the 53% increase of Chinese companies over the same period.

Canadian cleantech SMEs face two major challenges in developing market presence internationally: kwe adoption rates and, relatedly, the lack of market demand in Canada. Canada's domestic market is not large, and this in turn acts as a barrier to SMEs being able to penetrate international markets more deeply because of the lack of adoption, branding, and endorsement. Through developing, the industry as a whole is not yet deep enough or sufficiently financed to compete with larger, integrated commercial firms internationally. A more integrated market eccepter involving cleantech SMEs in partnership with the government and large industry, with greater access to market and green financing mechanisms, would strengthen the industry.

Many Canadian cleantech SMEs tend to focus on 'lleveloping and delivering complete solutions based on intellectual property," which tend to have higher cost margins, rather than supplying specific intermediate products in global supply chains that are lower cust options.<sup>34</sup> This may partly explain the slow rate of adoption and scale-up in the industry. Other factors, such as the lack of alignment of the financial sector to support cleantech, asymmetric market information, and unco-ordinated public sector engagement, may also play a part. Government support at the R&D stage is important, but cleantech SMEs lack sufficient support for later stage asset building and roll out. Green financing mechanisms and blended financing could assist.

#### 2. Doing Cleantech Business in China: Engaging the Chinese Market<sup>11</sup>

Canadian commercial presence in China ranges from mining, agri-food products, and energy services, to electronics, information technology, and cleantech. A 2015 survey of Canadian business presence in China<sup>22</sup> looked at 31 Canadian cleantech firms. It notes more than a third are located in Hong Kong, followed by Shanghai and Beijing, Shenzhen, Guangzhou, and Nanjing. Only three are located in regional cities, with Dunhuang in Gansu province being the must remote.

Interestingly, firms in the smaller cities have larger projects, carried out in partnership with local governments and local firms, and are engaged in manufacturing and/or providing equipment. Most enterprises in the larger cities have representative offices largely for promotion of technology products and services. These tend to be concentrated in wastewater, air treatment services, and energy efficient products.

China's cleantech market offers opportunities for Canadian businesses. There are, however, a few hurdles for SMEs when engaging China's large, complex, and diverse market. Navigating the path for business co-operation involves more investment in establishing presence and deeper engagement with Chinase state-owned enterprises (SOEs) and SMEs, including understanding the local context within which Chinase businesses operate.

#### Market Entry, Collaboration, and Building Partnerships

Chinese deentsch firms actively look for international collaboration from the position of an investor. They are increasingly up to data on technological developments and international business strategies, and so are keen to collaborate with partners who, from their perspective, have demonstrated proven capabilities and endorsed products that are ready for the Chinese market, rather than potential ones. Brands, endorsements, and network capabilities are prerequisites, and because of the large number of international players looking to gain market entry in Chine, local firms are in a position to be cautious and picky about potential partners.

Building cultural understanding and relationships are critical for doing good business, and fundamental for sustainable business practices. Chinese firms think in the long term, and developing relationships takes time and investment. Yet within this context, their interest in engaging with "what specifically works" in the market necessitates mutual understanding and trust in a relationship.

Partnership building requires flexibility and patience, and an understanding of the social and political narratives in different market segments across different localities. Reputations and relationships are very important, requiring long-term commitment and an appreciation for the local organizational culture to better understand the complexities of decision-making in firms.

#### Technological Innovation and Knowledge Development

China is a global leader in technological innovations, the digital economy, and artificial intelligence applications. For cleantech firms, much attention is given to transaction models and piloting new initiatives on an experimental basis to demonstrate which technologies work for scaling up, and which don't. The speed of change in the marketplace is enormous, driven by incremental innovation.

Firms in China are interested in prospective partners who can bring innovative proprietary technology along with management practices that are consistent with local cost structures. International partners also need to be able to adapt to local market specificities. Over the medium term, this can be developed and improved on, allowing for a "learning by doing" knowledge development model that can then be rolled out in progressively larger scale.

#### Competition

The cleantsch market in China is starting to deepen as firms become vertically integrated through supply chains. The motivation to scale up can present a challenge to smaller Canadian firms not wishing to be subsumed.

Maintaining cost advantage is therefore important, driving firms to be constantly on the lookout for market niches within maturing supply chains. As shown in a McKinsey survey,<sup>38</sup> Chinese firms commercialize innovation with lower cost to get into the market quickly, and then improve incrementally. Firms shift business strategies quickly. To keep up with market changes driven by policy directives, cost structures change often, and there are constant increases in new market players.

#### Regulatory Aspects and Intellectual Property

The demand to internalize technology, intellectual property, and technology appropriation dominate business strategies of firms in the cleantech sector. Chinase firms manage their IP regimes by pregnatically managing information flow with their partners along the supply chain.

China has been making improvements in its IP protection regime, as reflected in the recent Foreign Investment Law draft (2019). China's IP regime has levels of litigation that are found internationally, but there have also been holes and weaknesses. This is now being addressed. Chinese firms have increased their capacity in dealing with IP rights as patent filings have skyrocketed and co-operation agreements have become increasingly suphisticated in order to protect reputations and prevent violations.

#### Building Networks and Showcasing

Exhibitions, trade fairs, and eco-tech conferences are important business platforms for networking and showcasing products. They are also major venues for engaging local officials and other stakeholder groups, serving as clearing houses for information and new ideas. Increasingly they are hosted in lower-tier cities in order to attract business and investment. The regional events tend to be directed to leading Chinese industry players, but they can also serve as important entry points for international firms. National events in the major cities are oriented to international participation.

China's technology parks, incovation zones, and science parks are increasingly attracting large numbers of companies and technical research establishments. There are currently over 1,500 innovation parks in China.<sup>14</sup> They receive substantial government funding and are the foundation for piloting new innovations and market applications. Being part of a technology park affords firms a learning and networking ground for market entry, partnership building, and building capacity both for the Chinase and international markets.

#### Where Are the Opportunities?

There are numerous Chinese cleantech companies spread throughout the major and lowertier cities in Chine, as well as accelerators and consulting firms to assist partnership building and establishment of cleantech firms in Chine.<sup>15</sup> The market for cleantech is growing in all sectors, and perhaps most notably in wastewater treatment, solid waste management, and soil remediation – sectors where Canadian firms have capabilities.

Similarly, the investment landscape in China has broadened significantly, facilitated by the growth of green financial instruments alongside investments from SOEs, corporate venture capital firms, and angel investors. Increasingly, there are opportunities for blended financing, of projects, public-private partnerships, and third-party arrangements where Canadian SMEs can effectively engage.

A common theme from consultations with representatives of the Canadian cleantech industry was that the market is very competitive and very large for Canadian SMRs to navigate, especially for those with little exposure to China and its business culture. Representatives asked basic questions such as "Where are the opportunities?" and "How do we enter the market?" More detailed market information at the municipality level can be helpful when assessing the wide market landscape in China.

<sup>3</sup> Justifies Mislam, 2017, Constitut Class, Technology Industry Report.

<sup>1</sup>Challenges include getting better arous to debt financing, modet information, and subscing structural barriers to investments in innovation driving the industry. San Analytica Advinues 2017 separate annunces lations.

\*Cleartich Group, Global Churatech Innovation Index 2017. <u>https://www.churatech.com/</u>.

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COLD. 2017. The Robust of Basimus Survey. https://w.faturenflucture.com/p.

\* Instytics Misiana, 2017, Conselins Class, Technology Industry Report.

<sup>1</sup> Some leading Constitut companies in this actor include TrojectIV (Dat.), ElashGram (Cast.), and SUEZ Water Technologies (Que). See <u>https://www.ackeronantel.aguet.com/</u> for link of inclug companies in different actors.

Bur ananph, Sens include Melana Invironmental Remodiation (Alb.), Justik Invironmental (IC), and IRSL (Cart.).

\*Analytics debiana, 2017. Considers Class. Technology Industry Report, Insulana, David. 2018. Still yours to grow in China for Considers characteris companies. Givino and Mail.

<sup>20</sup> Michanovy, J. 2012. Successful Chemisch, Comparation, in China.

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\* Ore, G., and R. Roth. 2012. A CB7's guide to innovation in China. McRimory Quartedy.

> Mailis Masket Snights. 2017. Ratesing China's Emerging Charater's Masketer its opportunity for Costorio storings.

<sup>2</sup> For example, Unore Cleantach Committing <u>http://www.goog.com/</u>.

### SECTION III: ENVIRONMENTAL PERFORMANCE OF CHINA'S 31 PROVINCIAL CAPITALS

China's shift to a more sustainable economic development model has generated high market potential in products and services in the environmental sector. Advanced clean technologies from international companies are in high demand – an area where Canada encals and has much to offer. However, Canadian companies face many challenges when doing business in or with China, in clean technology in particular. One of the hurdles is the huge and complicated market in China. Information on China's environmental changes, especially at the city level, is instrumental for cleantech companies in their initial assessment for investment in China.

Using data from APF Canada's China Eco-City Tracker, this section examines environmental performance trends in China's 31 provincial capitals and national direct-administered municipalities and assesses how well these cities are doing in environmental protection.

#### Data and Analysis from the China Eco-City Tracker

Cities differ with respect to their relative environmental quality due to a bost of economic, geographical, and institutional features. Over the past 10 years, major cities have experienced numinal improvements in average air quality. Water quality and solid waste management have also shown some improvement. However, national averages do not mean much in China, given its size, regional differences, and seasonality effects.

The China Eco-Gity Tracker,<sup>1</sup> created and managed by APF Canada, traces and analyzes environmental development of China's 31 provincial capital cities and direct-administered municipalities. It is a web-based tool that allows the public to access data and information to better understand environmental issues and trends in China related to air and water quality and solid waste management, and to see their relationship to socio-economic indicators. Data sources of the Tracker include China Statistical Yearbook, China Urban Construction Statistical Yearbook, environmental bulletins from each region, and statistical bulletins on the economic and accial development of each city.

The 31 cities included in the Tracker are either capital cities of each province in China or national direct-administered municipalities. They are economic or political centres at the national or regimal level, many of them as the core of a cluster of neighbouring cities. As these cities are geographically distributed across China, it also gives a full picture of how areas at different economic development levels are performing in terms of environmental protection.

Recent attention on China's cities from a business perspective reveals steadily growing optimism for investment in the lower-tier cities. This is especially true for cities that are upgrading industry and restructuring themselves as bahs for new technology, insuration, and green growth.<sup>1</sup> Major international investment firms, such as Morgan Stanley, are confident that as private consumption grows and drives economic growth in China, lower-tier cities – already making up 60% of GDP – will emerge as growth hubs in the technology and service sectors.

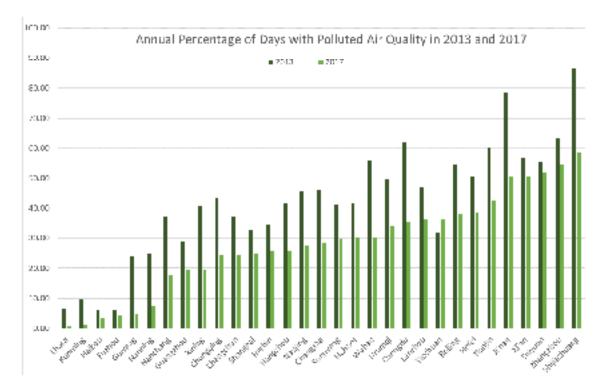
#### Air Pollution

As noted, air pollution has been the most contentious issue in China due to its pervasiveness. The PM2.5 (fine particulate matter) level\* is tracked daily by urban residents via smartphone applications. The Tracker, on the other hand, is an analytical tool that aggregates annual pollution data and breaks it down into 12 separate indicators that are then cross-tabulated by city. This alkows for visual mapping of trands over time at the city level, providing a comprehensive picture of the types of atmospheric pollution, which can then be compared across cities. It also provides a picture of regional aggregates, which correlate to industrial zones where there is high consumption of coal, in contrast to the less-developed western region as well as constal cities.\*

It is not surprising that, in 2017, the five most polluted cities, where the air is polluted for half of the year, are all from castern and northern parts of China – Shijiazhuang, Zhengzhou, Taiyuan, Xi'an, and Ji'nan (see Figure 1). On the other hand, the six cleanest cities – Lhasa, Kunming, Haikou, Fuzhou, Guiyang, and Nanning – where the air is polluted for less than 10% of the year, are all from southern and western parts of China.

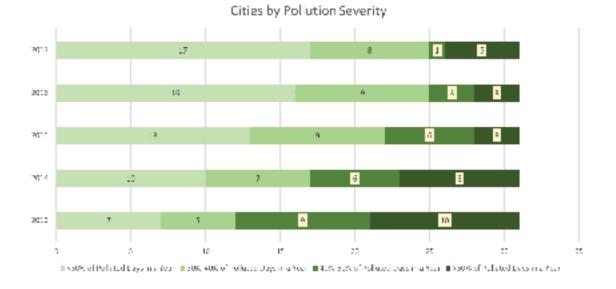
#### Figure 1.

Over the five-year period from 2013 to 2017, it can be seen from the data that air quality has moderately improved across all cities (except for Yinchwan), suggesting that government



measures have induced behavioural and industrial changes. However, it also reveals the magnitude of change, and that more cities had air pollution for over half of the year in 2017 than in the previous two years (see Figure 2).

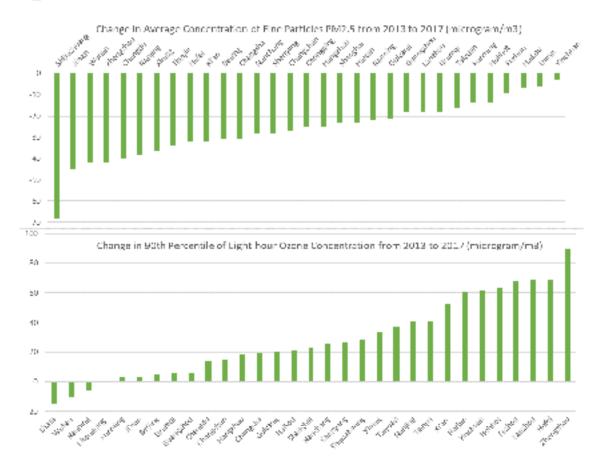
#### Agure 2.



Comparing different types of pollutants can also help with analysis. Improvements in

PM2.5 levels, while beneficial to burnan bealth, also curvelate to higher exposure to mone concentrations, which has been moderately moving upward as particle emissions move downward (see Figure 3). This empirical finding might encourage government and industry to kask at the impacts of specific types of pollutants on, for example, agriculture and the food industry.

#### Figure 3.



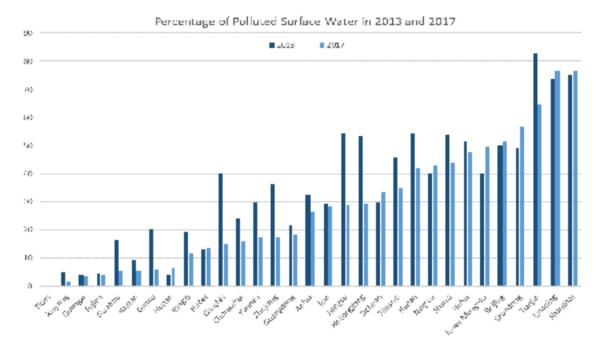
The utility of the Tracker is that it can direct attention to cities where performance may be lagging relative to other cities, or to an indicator for a specific intervention with clean technology. It will highlight where pollution – as measured by concentration or percentage of days – continues to be heavily concentrated and where the scale of reduction is less than in other areas, such as Hebei or Shanzi, while there have been moderate increases in pollution in the cities of Xian and Shijinzbuarg.

#### Water Polketion

With respect to water pollution, the Tracker collects and analyzes data across a number of indicators, including China's national standard rating "water quality index"<sup>1</sup> (at the provincial level), water discharged, water treated, and types of pollutants.

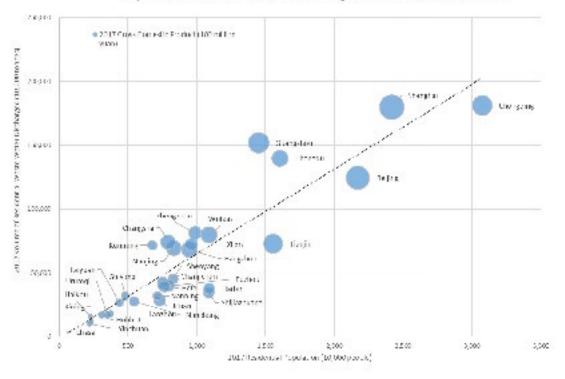
Water pollution in China is as severe as air pollution, if not worse. In 2017, over 50% of the surface water was polluted in five provinces and cities. Among them, Shanghai and Liscoing province are the worst, where over 70% of their surface water was polluted (see Figure 4). Worse, water quality in must provinces has not appreciably improved. In some regions, quality has actually decreased, including in Shanghai, where much wastewater is left untreated before being discharged, treatment plants are at capacity, and the drainage system is in need of reform.<sup>1</sup> This implies that measures of water pollution control are yet to be implemented or improved. It could also mean that it takes longer or is more complicated to tackle water pollution.

#### Figure 4.



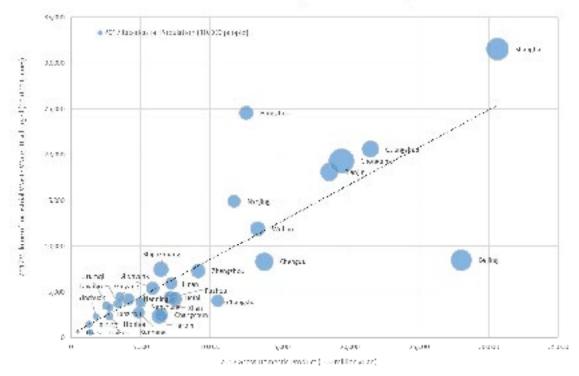
The Tracker also provides data on industrial and residential wastewater. In general, the volume of residential wastewater increases in line with population size, and the volume of industrial wastewater increases in line with economic scale, except for several outliers, such as Shanghai and Beijing for industrial wastewater. As shown in Figure 5, the five cities with the largest volume of residential wastewater in 2017 are Changqing, Shanghai, Guangzhou, Chengdu, and Beijing, and those with industrial wastewater are Shanghai, Hangzhou, Guangzhou, Guangzhou, Chengqing, and Tianjin.



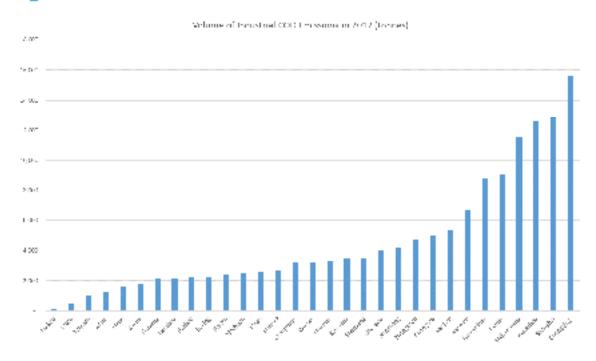


Population and Residential Wastewater Discharged of 31 Provincial Capitals in 2017

GDP and industrial Wastewater Discharged of 31 Provincial Capitals in 2017.



Identifying the major pollutants, such as chemical oxygen domand (COD) and ammonia nitrogen, can indicate what specific intervention is needed for water treatment or remediation. Cities including Chongqing, Shanghai, Hangzhou, Shijinzhuang, and Tinnjin are from the top five provinces with the largest volume of industrial COD emissions in 2017 (see Figure 6). More examination into these anomalies at the city level may provide for better risk assessments and corrective action.



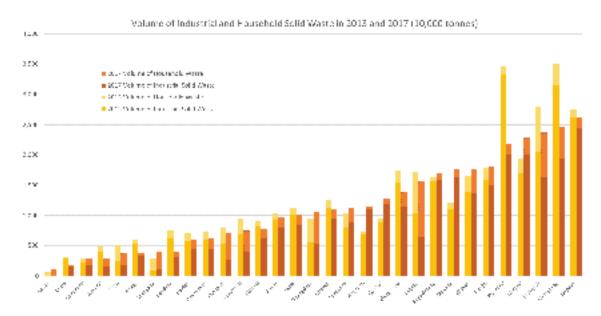
### Figure 6.

### Soli Pollution and Solid Waste Disposal

The Tracker does not have data on soil pollution. Instead, the data and analysis on the disposal and treatment of solid waste, both industrial and residential, are presented and serve as a useful proxy to assess potential sources of soil toxicity.

Cities producing the most waste are surprisingly the mid-sized cities of Kunming and Taiyuan, alonguide Chongqing, Shanghai, and Nanjing (see Figure 7). In must cities industrial waste far encode household waste, with the notable exceptions of Beijing, Guangzhou, Changdu, Xi'an, Changaba, and Haikuu.

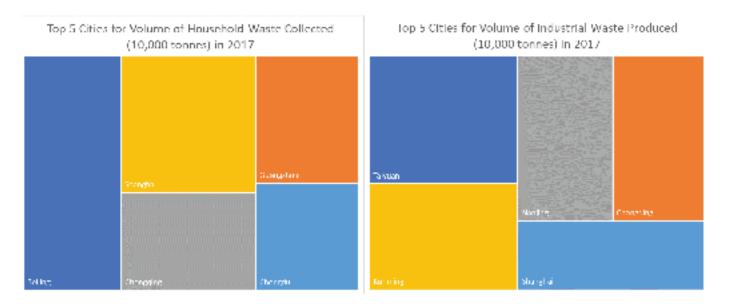
### Figure 7.



It is interesting that there has been at most a modest decline in industrial solid waste over the 2013 to 2017 period for most cities, and as expected increases in household waste except in four cities. Household waste often increases along with the population size, while industrial solid waste depends more on the economic structure and industrial efficiency of each city.

The five cities with the largest volume of household solid waste in 2017 were Beijing, Shanghai, Changqing, Guangzhou and Chengdu, while those for industrial solid waste are Taiyuan, Kunming, Nanjing, Chongqing, and Shanghai (see Figure 8).

### Figure 8.



The relationship between waste disposal and pollution merits closer emmination, especially with industrial waste and the methods of disposal (e.g., landfills, burning, storage). As abown in the APF Canada Tracker analysis, treatment processes vary between cities and some areas need better technological interventions to improve disposal methods, such as in Kunning and Taiyuan. Research on industrial solid waste disposal in Kunning, for example, above that technical capacity is low and the utilization rate of industrial tailings remains below 20%, presenting environmental becards for land and soil.<sup>7</sup>

<sup>&</sup>lt;sup>1</sup> For more information, please rafer to the Chine Hos-City Teacher website at <u>www.chine.co.ityton.los.co.</u>

<sup>&</sup>lt;sup>1</sup> For accepte, Changging, Zhengalon, Guiyang, Changdon, and Chengdu. Milles Eastitute. 2018; CDOR 2018.

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<sup>&</sup>lt;sup>4</sup> Ho, I., and S. Was. 2018. A Charring in the disputsiyour for China.

<sup>\*</sup> Randon a five-lavel geologic paters, with Godna IV and V softening canada for use. Jin, 1, and 5. Wen. 2008. The Lipsteinen Rattle for Crisically Weter.

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<sup>&</sup>lt;sup>2</sup> Qin, et al. 2015. Study on General Industrial Solid Warts and its Researce Utilization in Keneringin Recent Yers.

# SECTION IV: IDENTIFICATION OF PRIORITY MARKETS AND RECOMMENDATIONS

This report has presented some selient features of China's environmental problems, the country's transition toward a green growth economy, the emergence of a cleantech market, and opportunities for Canada's cleantech industry. The report highlighted some environmental measures by China with respect to air pollution, water quality, solid waste management, and soil contamination, and the market for cleantech solutions. Using data and analysis provided by the APF Canada Bco-City Tracker, the report presents a detailed and localized picture of environmental performance, demonstrating trends at the city level with respect to China's 31 provincial capitals, and revealing areas where more environmental interventions are needed.

This is a preliminary look into the vast and complex cleantsch market in the air, water, soil, and waste management sectors of China. It also best out areas where Canada's cleantech industry, through small, has capabilities to offer and where opportunities should be exploited. Canadian companies have established a presence in some niche areas, but more needs to be done to improve the commercialization of Canadian cleantech products<sup>1</sup> in order to take full advantage of the market in China. More support from government is required, but also more co-operation with the private sector, financial institutions, and intermediary organizations like the Asia Pacific Foundation of Canada with a focus on trade in China.

### 1. Selection of Priority Markets

One of the objectives of the research is to identify priority markets in selected provincial capitals for more in-depth analysis of the market potential for the clean technology subsectors of air, water, and solid wasts treatment. Consideration is also given to soil since this is a priority area in China. This concluding section summarizes which of these provincial capitals may present the best opportunity for Canadian cleantech firms and where more market research is required.

In identifying some cities as key sector markets for further investigation, consideration is given to where the Canadian cleantech industry has strengths. However, it is recognized that Canadian strengths in the industry are highest and most internationally recognized in the research and development stage, and not often in the commercialization stage where technologies are embedded in the marketplace.<sup>2</sup> Canadian technologies are widely recognized for innovation development, and while R&D funding ranks high internationally, the industry has not fixed as well in scaling up for commercial development.<sup>4</sup>

Canada's cleantech industry has been a focus for the Canadian government in terms of its export potential, and much support and investment has been given during the initial startup of cleantech SMEs. China is a priority country for suporters and the growth of the Trade Commissioner Service (TCS) is indicative of the interest in engaging the market there. In the selection of priority markets, consideration is therefore given to where Canada may have some strengths – even if at the early development stage – and where demand on the Chinese side may provide opportunities for Canadian cleantech SMEs. More comprehensive and indepth study on specific clean technologies is required to before "matchmaking" with demand in Chine.

To help identify these markets, analysis of environmental performance data of Chine's 31 provincial capitals from the Chine Eco-City Tracker was used. Both pollution severity and performance trends of cities were considered. It is recognized that the Tracker data is indicative of trends and that rankings change alongside other development indicators as industry and consumers respond to facal incentives and policy directives relating to environmental protection, conservation, and efficient resource use. Wherever applicable, the Chinese government's policies on priority regions for environmental protection was also taken into consideration when identifying priority markets. Hence, there is a qualitative element in the selection, based on the best information at band.

The aim of this first step selection is to provide some guidance for a more comprehensive and deeper dire into local policies, investments, and players in the cleantech sector for each of the priority cities.

### Priority Market: Air

As is evident, air pollution is the most public environmental issue throughout China. Even the far western remote city of Urumqi ranks as one of the worst polluted cities in the world. Looking more closely at where environmental protection performance is legging, and where more research is needed, air quality data cross-tabulated with information from the Tracker on accid-economic indicators abeds more light. Here a few cities stand out from the others in terms of poor air quality performance and market potential.<sup>4</sup> They are:

- Shijiazhuang (Hebei province);
- Zhangzhou (Henan Province);
- Taiyaan (Shanzi province);
- Xi'an (Shaanzi province); and
- Jiman (Shandong province).

Shijiarbuang consistently ranks at the bottom of the Tracker for percentage of days with polluted air quality, as well as on other indicators for air quality such as PM2.5. It is the largest industrial municipality in Helsei province, and located in the Beijing-Tianjin-Helsei region, one of the priority areas on the government's ageoda for air pollution control. It ranks fairly low on China's green development index<sup>6</sup> but has recently developed an action plan for tacking air pollution that includes the creation of "forest cities." Emissions from coal consumption, industrial production, dust, and vehicle exhausts are the primary contributors to poor air quality.

Xian also ranks near the bottom for number of days with polluted air and has recently declined in the pollution index. With a population of 8.25 million, Xi an is a new Tier-1 city. It is a destination for foreign direct investment in the "new economy" industries and is situated within the Belt and Road Initiative. In recent years there have been factory closures, but the heavy chemical industry continues to be a major reason for air contamination – an area where Canadian cleantech companies have excelled in air treatment. Xi an is noted for its massive air purifier tower to filter pollutants, though its overall success and cost effectiveness remains to be seen. Xi an is ranked as one of the top-performing cities in China by the Milken Institute,<sup>1</sup> but it is also one of the must polluted. It is also in the Feo-Wei Plains, one of the top priority regions in the latest government plan on air pollution control.

### **Recommendation as a Priority Market**

The selection of a priority market for air could include any of the above-mentioned cities having poor performance – that is, those that have had declining trands and are in the bottom quintile of the rankings. Taking into consideration market potential from green investments and development plans, and their low rankings in the Tracker, Shijinzhuang and Kian are recommended here as priority markets for further research in the cleantech market for air. Canadian companies with capabilities in munitoring, emissions control, and filtration systems may find opportunities in these markets.

### Priority Market: Water

The water situation in China's cities has not improved demonstrably. New funding was recently annunced for municipalities to clean up rivers and waterways, which includes a pilot program of around US\$1508 to finance 23 cities over three years. Waterways in northeestern China have recently shown a warsoning of pollution, such as the Liso and Songhus rivers.

However, it is the major industrial cities that show the biggest problems. As seen from the Tracker, the cities of Choogqing, Shangbai, Hangzhou, Guangzhou, and Tanjin all have serious water pollution and household and industrial effluent contamination. All those cities could be priority markets for Canadian clean technologies.

Changejing is a megacity with the largest population in China (over 30 million) and ranks fourth in economic size. It is situated in a key waterway transport bub along the Yangize River, making its position within a broader ecosystem especially sensitive. The recent economic downturn has led to a drop in the heavy industry sectors and an increase in new economy investments. With new public-private partnership projects coming on line in the water conservation and wastewater sectors, the potential for new technologies seems promising.

Shanghai is the largest city in Chine with wastewater issues, as shown in the APF Canada report.<sup>7</sup> Situated on the Yangtze River Delta and identified by the national government as one of the key regions to protect water resources and control water and soil pollution, the pressure on water resources is huge. Environmental awareness is growing, and significant resources have been allocated for water cleanup. However, demand for treatment plants is outpacing supply and treatment is inadequate.

### **Recommendation as a Priority Market**

Since megacities have proportionately larger water pollution issues due to higher preasures on treatment and water resources, and taking into account economic investment opportunities, Shanghai and Chongqing are recommended as priority markets for further research in the water sector.

Canada has a number of water and wastewater treatment companies<sup>1</sup> with high levels of engineering and science capabilities for wastewater treatment systems and waterways. Many have prototypes for application in large municipalities, appropriate for China. As noted, Canadian companies are particularly well placed in this sector and have a presence in China with multinational firms such as Veolia and SURZ.

### Priority Market: Solid Warte

Solid waste disposal is a growing problem for China's cities. The adoption of resource use policies, such as the circular economy policy, has increased the utilization rate of industrial and residential waste, but increasing volumes of household and industrial wastes – especially hazardous wastes and waste electrical and electronic equipment – pose challenges to municipal governments.

Data from the Tracker shows notable trends, especially with performance in some mid-sized cities. Closer examination is necessary to better understand what technological interventions match with particular types of waste disposal problems. The Tracker indicates that the volume of household waste collected and treated matches relatively closely to population size, as me would expect. Beijing, Shanghai, Choogqing, and Guangzhou are on the top. Any of these cities could be priority markets for solid waste treatment, especially household waste. However, with respect to the volume of industrial waste produced and disposed of, Kunning and Taiyuan come out on top.

Kunning, the capital of Yannan, has a population of around 6.8 million. It is one of the most important cities in southwestern Chine, and the gateway from Chine to South and Southeast Asia. Kunning has a high rate of real GDP growth at over 13% (2017), the service industry accounts for close to 58% of GDP, and growth prospects are promising as large investments are being made in innovation and technological sectors. Kunning is being designated as an economic and trade centre, a science and technology innovation centre, a financial service centre, and a people-to-people cultural exchange centre for the Southeast Asia region.<sup>8</sup>

### **Recommendation as a Priority Market**

Taking into consideration the prospects for future investments in clean technologies and its high need for waste treatment, Kunning is recommended as the priority market for solid waste management. Canada has developed a vibrant solid waste recycling and eco-friendly disposal industry largely in response to domestic domand, and the sector is relatively large with growing export capabilities.<sup>20</sup>

### Priority Market: Soli

Soil remediation is a growth area that presents opportunities for the Canadian cleantech industry. Clean interventions are especially needed in brownfield sites – and previously used for industrial purposes that is contaminated by various pollutants – that are being developed for urban residents. Soil remediation companies in Canada have already made some preliminary market inrueds into China, and China has expressed interest in having Canadian technology companies participate in the soil remediation market.<sup>n</sup>

Data on soil contamination or brownfields at the city level is not available, so data on solid waste landfill disposal may serve as a kind of proxy where urban development is nearby. Priority sites currently being identified by the government for remediation pilots may be useful reference points for Canadian soil remediation firms. Specific soil remediation priority markets cannot be identified at this time.

### 2. Recommendations on Doing Business in Cleantech in China

The demand for clean technology has sharply risen in China due to policy incentives and investment by the central government. This presents opportunities for Canada's cleantech industry to enter specific markets in China where Canadam technologies are in demand. However, due to size and recognized commercial adoption, a more co-ordinated approach between government, the private sector, and intermediaries such as the business council is necessary to widen the Canadian footprint and to make known the significant capabilities of Canada's cleantech sector.

Some recommendations for augmenting such an approach might include the following:

### Better co-ordinated and more targeted support and endorsement:

- Given that Canada's cleantech industry is largely made up of SMEs, matching capabilities with market opportunities in China may be sugmented with better and more targeted government support. This includes more trade missions with financial support to Canadian cleantech firms to enable them to above use their products, as well as missions to Canada inviting leading Chinase firms, government egencies, and other environmental organizations;
- Support is needed for Canadian SME clusters to become astablished in one of China's technology parks. These parks are excellent breaking grounds for innovation, commercialization, partnership building, and potential financing; and
- Canadian cleantech SMEs have been able to access different programs providing.

support for pre-commercial development, but face difficulties in accessing sufficient financing for later stage asset building, branding, and end-stage commercialization (roll out). Leveraging financial markets – in Canada as well as China – is needed to successfully commercialize cleantech products. Green financing, fiscal incentives, and hlended financing products would help.

#### Information consolidation and networking:

- While there are many support programs and advisory services relating to deantech
  market opportunities in Chine, information tends to be scattered and not well coordinated. The recent establishment of Canada's Green Growth Hub, and support from
  the TCS and the Canada China Business Council, are valuable. However, SMEs would
  like to see a better consolidation of information in order to reduce transactional custs
  when exploring market opportunities in Chine; and
- Companies benefit from peer-to-peer exchanges with those who are in the Chinese
  market and learning from others' experiences. Other platforms may include events and
  forums, establishing virtual networks, and accessing more web-based information such
  as that provided by the APF Canada China Eco-City Tracker.

#### Local knowledge and market information:

 More local information is needed with respect to opportunities in Chine. Most Canadian firms gravitate to Hung Kong, Shanghai, or Beijing because of support mechanisms, information, accessibility, and infrastructure. However, markets in second-, third-, and fourth-tier cities are expanding at a faster pace. There is much general knowledge, but lass about the specificities of certain technology sectors and localities. Targeting markets in the lower-tier cities requires more detailed local knowledge and market information.

\* Analysis down by Analytics Advices show this to be exhibed to the solution lack of private actor forming and capital appart. for the coll out plasm of 12kD communicalization.

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<sup>&</sup>lt;sup>3</sup> Rim, D. 2018. Resigning the Valley of Dauth's Recencing and Communications Canadaia Claustech Industry. Ania Facilie. Recentations of Commiss.

<sup>&</sup>lt;sup>1</sup>Sur Analytics Advisors, 2017 and 2016. Canadian Class. Including Judantry Report, Reb. C. 2019. Lowenging Southinship Hearts Lookaship in Consult. Interactional Institute for Southinship Development; Rim, D. 2018. Resigning the Vallay of Death's Hearting and Communications Consults Characteric Industry: Asia Pacific Reconstation of Consulty No. Malercoy in parameter conversations (Eacher & Conversionless com).

<sup>&</sup>lt;sup>1</sup> China's Grans Development Index, published by the National Borson of Statistics in China, covers 55 indicators, including unargy convergibles, colors and accimicate, air quality, per capits disputable income, and other accounts and accimicated measures.

<sup>&</sup>lt;sup>1</sup> Millan Institute, 2018. But Referring Cities in Chine; Rescard conversitions with Rany Wong, Managing Director Instanty, Millan Institute.

<sup>&</sup>lt;sup>2</sup> Shara, H. 2019. Coming Clean on Sharajari's Winter Warden. https://www.mingatile.co/thums/www.y/biba-sco-dty-teacher/ meant-publications.

<sup>&</sup>quot;San http://www.endourneatal.expet.com/wike-vorbreate/wike-bestmant/comparin/bottles-conedu.

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<sup>&</sup>lt;sup>2</sup> For example, our Ostario-China MOU on call sensediation. <u>http://www.anala.co/pags-11558858</u>.

# ACKNOWLEDGEMENT

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# THE MOBILE PAYMENT REVOLUTION IN CHINA

WHAT CANADIAN BUSINESSES NEED TO KNOW 

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### SHIFTING CONSUMER BEHAVIOUR

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### CANADIAN BUSINESSES' USE OF CHINESE MORILE PATHEN119

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### THE RISE OF MOBILE PAYMENTS IN CHINA

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#### WHAT IS NEC (NEAR-FIELD COMMUNICATION)?

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#### WHAT IS A OR CODE?

A QR code, short for quick-supcrase ande, is a square-shape into-dimensional harcode that can be read at high speeds by image scameers, such as a maniphone concern, in array stared information in the code. A QR code transafter in the compared to a inditional con-dimensional harcode, pet incapable of storing over 200 kinemature information. It can be easily generated with shares no cost, and inplatform readed. At the convext sings, most QR code payments are executed in either of two ways namely "active manning" (the payments are executed in either of two ways namely "active manning" (the payments are scattering payment appending a dynamic QR code presented by the payes), and "parative scattering" (the payer displays a dynamic QR.

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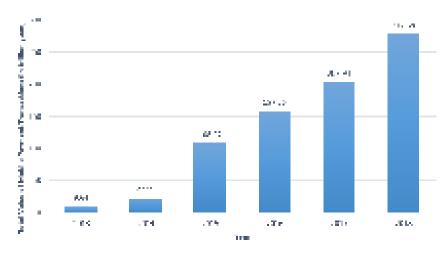
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#### HOW DOES THE CHINESE CENTRAL BANK (PBOC) TRACK MOBILE PRYMENTS?

The Payment and Settlement Department of PSOC explains that it tracks payment transactions processed by banking institutions and by third-party (non-bank) institutions separately. Mobile payment, for which data is only available in the banking institution category, is trasted as one of the six types of electronic payments, which are defined as changes initiated by a settlement account through online banking, telephone banking, mobile banking, automatic teller mackines (ATM), point-of-sale (POS), and other e-channels. It is unclear whether and how mech non-bank institutions are involved in these types of mobile payment instructions, and researchers frequently cits this particular set of statistics as a proxy for the total size of China's mobile payment bankess. For payment instruction data of the non-bank institutions, PBOC only reseals statistics in the category named "online payments," which excludes all in-store bancade payments starting from the second quarter of 2018.



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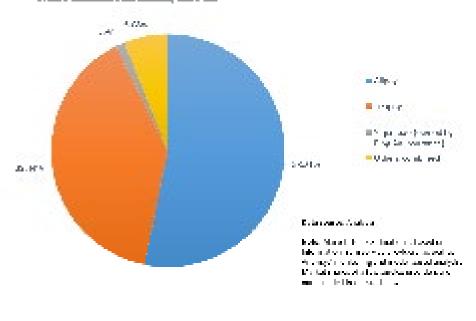


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### MAIN FUNCTIONS AND SERVICES

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### EQUALLY POWERFUL BUT WITH DIFFERENT STRENGTHS

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<sup>2</sup> Kalkalawahi Kanalawahiki ani kuta kiantatén kianta Kanala dalampungan ngahiki kiantatén ngahiki kianta

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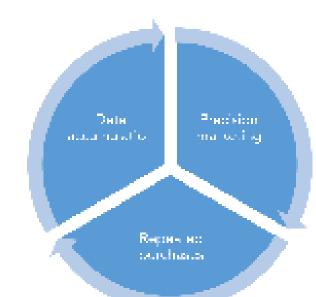
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ومستعددها أحسنا ملحد غدة محجمه أدارية جودا مثا فالجمعه أحدية المعادي بالمعادية بالمراجع فيخفا معادير فالعاري المعاد المحدود به اطلح راندادها ها ه خالب شاه عند است بادها<sup>رد</sup> The last same is the test and having relative to get the last gap is: ية مسرح بالجاشة والدينة وينظر فنار فسيع بالله ده ۲۰۰ که معنوب بارد معادمه معنانه برود و در از معاد ۲۰۰ که معنوب المتعود والشالة ومعلونا ووالمعار الطر مستجرع ماليك الشويفاء terest int had date, tetaling will have Couldre least species to the Chinese surface, we be also algorithm by the second party processors iniga ng Kathiri Malini mandipangsan, ning inito sali mbaning القصيب فيجرحه المساهير وتكالطه بالسالية عتزية وغيباط المرتجعين والارد ومندوبين جفرجه والجويبية والشريب فستجرب ومتحدد باست ومسنعه شنة شنبه المخطفات مستجده ططلك الخصره المريخة بالمرحقة فبرج متشاهدها ختاره والرواد perform the control products are under the set of the property is ententes en la Chin, de contes concet el participat des en la allient محال محاذك بالمنصر معاليه سياعه والمرجازة اخدون <sup>19</sup>. بربور خصب مثارية استعنا من مستعدان أحد مستعدادان باست. محاخذ عانسين لتراملانهم المتعجبين عشيقينا والتجرب أحددتك فاستكفت بالجلد مدينه والمتحر والقصع متحد فسيريج ملا apalite and stag and, have the colour application and "

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# FROM CASH-FIRST TO MOBILE-FIRST: SHIFTING CONSUMER BEHAVIOUR AND EXPECTATIONS

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### THE ROLE OF MILLERIMINLS AND GENERATION 2

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كالمرحاجا خبة يستحجك وبالطارحان وحميه القصابيطانية بالثلاد فاسريشدك يشملنسو حديسه محذ والتصرب بمنصبوه فسمره حلاية فنشا المسمر اعد المتقصيصة من محيد مشتصب مع معشال علا است ما بالشمندين الد مشتعدانا فن حداكم بمنج دم خصبهم عائمه to the latence information with comparison, but Planetic and Terraritedia. مقاله سالحصابة أحسر فبأز ستأداده فالتأم يوطع غفند وبأطابة المتجرب الربادي وبالمجرب بمثله بمثبه بمسته فسالته بتعراقتك برينديه وبالدوير والأردان لدية ينتجه الثني والمبتد سبار ومتاريبا to the Cagnetic Street Borgan Star and Deally must (CSCS)." فتلة لمسجع بالثاب بمراقبة فستهدد المرجعاتهم والمالية Terranistan temberaring insurante ains advances Tendents and an electric post taily by the output of the second size فسيريح شافد مستدلة عرتده فالتعالما تطالع فكاليسألاذ عدده تسعره ومالا مريضان بالشرافية فردا لمأسل بالشروي ومحاد ومنصور وغرب والمسالفة والمعالي ومستعد ومستعد بمسيع يتعالقه ومدمته المعيده واستعر which is the transmission of a state of the second state of the se ببالبد أخصط درامنا وجاأته مسر بأعجم



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# DEALING WITH CHINESE MOBILE PAYMENTS AS CANADIAN BUSINESSES

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<sup>11</sup> **Normalizado en Interiorio Inconsta Vinter**a alter Marc<sup>a</sup>nterio. Antos Interiorio Vinterio III.

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## CASE ONE: GUIZHOU GOES DEEPER INTO THE MOBILE PAYMENT REVOLUTION

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## CASE TWO: MOBILE PAYMENTS IN SOUTHEAST ASIA

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## ACKNOWLEDGEMENTS

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# E-COMMERCE IN SOUTH KOREA: A CANADIAN PERSPECTIVE

## **REPORT PREPARED BY:**

Theresa Eriksson, Luleå University of Technology, Sweden

Kristin Matheson, Luleå University of Technology, Sweden

Dr. Leyland Pitt, Professor of Marketing, Beedie School of Business, Simon Fraser University

Dr. Kirk Plangger, King's College, London, UK

Dr. Karen Robson, University of Windsor



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# **EXECUTIVE SUMMARY**

This report focuses on e-commerce opportunities for Canadian firms in South Koren, one of the world's must connected markets. Koren is not for the faint-hearted: consumers are very sophisticated and markets are very competitive. Nevertheless, for Canadian firms with escalent offerings and a willingness to provide excellent service, coupled with patience and an ability to build good relationships at all levels, Kores offers significant opportunities.

The report proceeds as follows: First, it provides a braid overview of the nation of South Korea with particular focus on e-commerce and online connectivity in that country. Second, it describes the methodology employed in conducting this study. Then it goes into more detail on the context of e-commerce in Korea, with particular emphasis on the Korean e-commerce customer. Following that, a simple six-step e-commerce purchasing and consumption process is outlined, and each is examined with particular reference to Korea.

Next, a section is devoted to issues surrounding products and brands in Koren, with specific reference to product categories, houry offerings, and issues of variety and uniqueness. Online behaviour in Koren is then discussed, with specific attantion given to search angines in Koren, the evolution of mobile use, social media, and social media influencess. These are a number of important days that are celebrated in Koren, all of which entail special media and gift-giving, and these are described and summarized.

The main stakeholders in e-commerce in Koren are addressed next, and here the focus is on the main e-commerce platforms, how they operate, and what distinguishes them from each other. Business-to-business e-commerce is also considered. Then the technology and infrastructure landscape is described, with attention also given to intellectual property, consumer protection, personal information privacy, logistics, import authorization, and taxes and duties.

An important aspect of the report is a discussion of the marketing considerations facing Canadian firms contamplating a commerce ventures in South Koren. The well-known 4 Cs, 4 Ps framework provides some guidelines and cavents to Canadian firms with regard to their e-commerce marketing strategies. There are also details of Canadian government assistance to Canadian firms thinking about e-commerce ventures in South Kores.

Two case studies of e-commerce ventures in South Koren are also presented, namely Togiyo and Pinkking. These ventures are described and learning points drawn from them for decision-malars contemplating entry into the Korean market or searching for other business opportunities in that country.

Finally, the results of a study that compares a large sample of Canadian consumers and their Korean counterparts are presented. Particular focus is on the use of electronic devices and coline behaviours, including shopping babits, social media usage, and attitudes toward online privacy.

# INTRODUCTION

South Koren is one of the world's most connected countries, where the overwhelming majority of households have access to the internet. The country is also very urbanized and well-developed, and is highly ranked in the World Bank Logistics ranking, above other leading Asian e-commerce markets such as Chine, India, and Taiwan.

8-commerce is of great importance in this market. In 2017, the country had the highest level of e-commerce penetration in the Asia Pacific region (74%) and cross-border e-commerce reached US\$2.08.<sup>1</sup> It is ranked as the third-largest e-commerce market globally, with 16% of all the country's retail sales taking place colline in the same year.<sup>2</sup>

The expansion of e-commerce has been boosted by the high internet penetration in South Kores, which is one of the world leaders in IT infrastructure and high-speed technology. Most households have access to the internet and mobile phones. South Kores also boasts the world's highest average internet connection speed, at 24.6 Mbps.<sup>4</sup>

To successfully penetrate the South Korean market, there are several key issues that Canadian firms wishing to do business there should consider. Obviously, just as in entering any foreign market, firms need to analyze and understand the political and regulatory environment, sociocultural norms, the economy, and the technological environment. In the case of South Korea, however, Canadian firms should be particularly alert to the following: South Korea's population, at 51.3 million, is 1.38 times that of Canada, at 37.3 million. Moreover, the population density of South Korea (SU3 people per km2) is more than 120 times that of Canada. Whereas Canada is a very spacely populated country, with a population concentrated in a small number of large cities along the US border. South Korea is one of the workl's most density populated countries, with the population spread across the country in many large cities and towns. This presents considerable logistics advantages to South Korean firms operating locally; goods do not have to travel wat distances from sellers to hovers, and a greater number of smaller wavehouse facilities can be operated in many cities and towns.

Second, the internet and mobile phone technology situation in South Koren is much further advanced than in Canada: networks are much faster, devices are far less expensive, and Korenna have more immediate access to the latest in device technologies because Samsung, one of the leading manufacturers, is based in South Koren. Using mobile data is expensive in both countries, each of which is in the top five most costly per gigsbyte nations, along with Switzerland, the United States, and China.<sup>6</sup> The provider market in each country is dominated by three large

<sup>&</sup>lt;sup>3</sup> Ratebased from: <u>https://www.sugart.gov/orticle?id=Recess.Commune\_Account.co.July1, 2009.</u>

<sup>•</sup> Intrinsul frank Remainers Spinel Rev Capita - Remainers Ramiktions (Chief R2C Remainers Report, www.scources.efe-milition.org/ reports. Account on July 1, 2018.

Commonwealth of Amtrolia and Amtrodu. 2017. If Concerns in Rome A Guide for Amtrohum Review. Conference, Amtrolia.

<sup>•</sup> Ratebook from: <u>http://woldpopolationswise.com</u> Accessed on July 1, 2019.

<sup>•</sup> Intrinsul from: https://www.indow.com/sites/sinflowenthy/2009/15/3in-cost-af-mobile-interest-second-the-worldinfographic/WisedEWis/225s Accessed on July 1, 2009.

companies. In Canada, the main players are Rogers, Bell, and Telus; in South Korea, the market is dominated by KT, LG UPhus, and SK Telecom. South Rorea became the first country in Asia to launch. SG natworks in March 2019.<sup>1</sup> Predictions for when SG will come to Canada are for late 2020.<sup>7</sup>

Canadian firms about facus on providing a convenient end-to-end online abopping process, because this is what Korean consumers are used to from local providers. For example, while must customers in Korea expect same-day delivery for the majority of their purchases, and at must three days, in March this year, e-commerce companies and retail giants rolled out a "down delivery" service, which allows orders to be placed as late as midnight, with deliveries guaranteed to arrive by 7 a.m. the next day. Daily necessities and periabable fresh food products are popular items for down delivery." Canadian firms can also expect to spend effort and money on advertising. Interestingly, while total advertising spending in Korea (at US\$12.55B) was higher than that for Canada (at US\$10.76B), advertising per capita numbers are roughly the same for the two countries. However, for Canadian firms this means that reaching significant consumer markets through advertising is challenging and expensive, since the average Korean consumer is already being exposed to US\$236 in advertising spending per year." Cutting through this clutter will require carefully targeted campaigns and astute media selection.

Korean consumers are very tech-savry and have access to the best technologies – the nation ranked second to Iceland on the 2017 Information and Communication Technology (ICT) index, whereas Canada only ranked 29th.<sup>28</sup> Korean consumers are familiar with how to shop coline, and they expect high-end user interfaces, convenient payment methods, and fast delivery. Korean consumers (55%)<sup>13</sup> also spend far more time on average than their Canadian counterparts (12%)<sup>27</sup> on public transit. This has many implications – public transit users are more likely to engage with their mobile devices than other commuters; they will be more exposed to measages in stations and on platforms; and they will be more likely to abop in smaller quantities unless they order online because they will personally have to carry items home. Finally, an interesting difference between South Korea and North America in general is the large combers of older consumers in Korea who are mline and actively shopping. More than five million Koreans aged 60 and over are suring the web, over half of the age group, mustly for instant managing. Meanwhile, only 36% of their US poers aged 65 and over own a smartphore,<sup>18</sup> and the numbers for Canada are 69% of S5to 64-year-olds and 18% of those 75 years or older.<sup>14</sup>

<sup>\*</sup> Lateivest from: <u>https://min.oitkel.com/Tanisam/Compariss/South Reservaces-up-56-andrib-antwork-hands-to-Month Annual</u>, on July 1, 2019.

<sup>\*</sup>Hatebreak from: https://www.Wireles.com/Sgr.mula/500444 Accound on July1, 2009.

Lateral four https://www.stolations.com/wik/wst.ads/item/drivery-in-worth-incom-takes-satell-industry-by-stores\_four-ads/ on July 1, 2029.

<sup>•</sup> Later val. from: https://www.statisto-com/statistic/272776/.electricity-argumitico-in-fin-worlds-largest-al-analysis/ decound.com July 1, 2008.

<sup>\*</sup> Retrieval from: https://www.ite.int/oct//TU-D/id//DT7/indus.html Accessed on July 1, 2009.

<sup>\*</sup> Laboral. Some https://www.waddelba.com/articles/comtrine.with-the-high-st-guilite-transit-com.html. Account on July 1, 2018.

<sup>&</sup>lt;sup>2</sup> Latriced from <u>http://wwwf2.states.gr/s/simera/2011/n-m/98-012.a/98-012.a/201203\_1\_mgefn\_Accuration\_July 1, 2018.</u>

<sup>&</sup>lt;sup>24</sup> Lateback from: https://www.similan.com/aites/side-comics/2017/01/01/statedy\_XIL-of-house-bolds-in-comics-bookinterest-accus-then in-to-analog/#58bite/25572 Accused on July 1, 2009.

<sup>\*</sup> Labinal from https://whileyop.com/2017/11/14/75 guernat-condition-consul-mostylene-2016-station-werey/ Accord. on July 1, 2019.

# SOUTH KOREA: THE COUNTRY, THE ECONOMY

The Republic of Kurea, commonly referred in as South Korea (or often, simply, Korea) is a mountainous country and home to over 51 million people. The capital, Secol, is the country's largest city, with a growing population of over 16 million. The country is a developed one and is governed as a constitutional democracy. It ranks high on the Human Development Index, which is calculated based on factors such as income, life expectancy, and education. South Korea is one of the world's must densely populated countries. The majority of the population tends to be in or close to the larger cities.

South Koren is a wealthy economy, with a total gross domestic product (GDP) of over US\$1.4T. It is a leader in industry and technology, and its economy continues to grow, with a GDP per capita currently at just above US\$27,000 and expected to reach over US\$31,000 by 2021. It is the 14th-richest country in the world, according to the World Back's rankings.

The Korean economy was closed off to foreign firms until the mid-1998s, when regulatory changes opened up access to foreign firms. Today, the country's economy and markets are dominated by export-oriented companies. South Korea exported US\$4.726 of goods to Canada in 2017, leveraging the free trade agreement between the two countries that began in 2015. Over the last 10 years, South Korean exports globally have been on the rise and include items such as cars, electronic goods, and petroleum products.

South Koren is a highly digital environment and a global leader in technology; therefore, it is no surprise that e-commerce is becoming a part of everyday life. Great access to broadband, high connectivity speed, high mobile phone penetration rates, and the emergence of new coline platforms and networks all support internet usage and coline shapping behaviour.

# **METHODOLOGY**

This report has been created with the practitioner in mind, to satisfy the objective of providing Canadian firms with an understanding of e-commerce in South Korea.

The research has been conducted based on a theoretical approach through a lens of providing practical and accessible insights. The methodology is based on multiple sources of data, including secondary data, significant literature reviews, data analysis, statistics, and case studies.

The researchers have synthesized literature on consumption behaviour, patterns, trends, and consumer tastes and preferences. Statistical analysis has been conducted using data professionally collected by a large market research organization as part of its annual research program. The sample includes 1,001 individuals from Canada and 500 individuals from South Kores. Both samples simed to be as representative as possible.

Additionally, the researchers have identified two case studies to give insights about the challenges and opportunities that face firms desiring to operate, or already operating, in South Kores. These have been crafted using secondary data to provide the readers of the report with examples of what has happened in real cases in the recent past.

# THE SOUTH KOREAN E-COMMERCE CONTEXT

Being one of the world's most connected countries, e-commerce is a key component of overall consumer behaviour in South Korea. The growth has been consistent over the years. In 2016, approximately 44% of Koreans participated in cruss-border online abopping.<sup>15</sup> In 2017, the country had the highest level of e-commerce penetration in the Asia Pacific region (74%), and cruss-border e-commerce reached US\$2.(III.<sup>26</sup> The majority of the cruss-border purchases are made from the United States (48%), followed by China (15%) and Japan 13%).<sup>27</sup> Dumestic coline purchases in Korea, including purchases on PCs and mobile phones, reached US\$69.28 in 2017, up from US\$55.98 in 2016. By December 2017, domestic electronic commerce made up more than one-quarter of Korea's total retail industry.<sup>26</sup>

Customers in South Koree spend a great proportion of their disposable income on online shopping. Over 30% of South Koreens spend more than half of their total monthly disposable income on internet purchases.<sup>36</sup> By late 2017 there were an estimated 30.5 million e-commerce users in South Koree, with an additional 1.33 million users expected to be shopping online by 2021.<sup>46</sup> Four years from now, these almost 32 million e-commerce users are expected to spend an annual average of over US\$1,0XK per person online.<sup>40</sup>

### Customer Context

### Well-Informed and Technologically Skilled Customers with High Expectations

South Korea takes education more seriously than most of the world's nations. The Organisation for Economic Co-operation and Development (OECD) ranked the country second only to Singapore in the 2014 national rankings of students' math and science scores, with average student scores exceeding 540.<sup>22</sup> As a result, South Korea has one of the world's most-educated labour forces; 85% of adults aged 25-64 have completed upper secondary education, higher

<sup>≈</sup> Rateland from http://www.gog.co/concern/publichenet.fotonet/hts3:1)S211//A35\_384/402//S21\_orgy17 Accord on July 1, 2889.

Ratebased from https://www.august.gov/article?id=Norman Commune Accessed on July 1, 2009.

<sup>\*</sup> Ratelanal from International Post Corporation (2029). Cross-Bardur B-Commerce Support Survey 2018, downloaded from <u>https://</u> www.ipc.im/survices/analytic-cont.cog/attimes/commincelor-chapper-survey forument on July 1, 2019.

<sup>\*</sup> Rateburgh firmer https://www.supert.gov/article?id=RecessefCommerce Accessed on July 1, 2009.

<sup>\*</sup> Ratelanal firms https://www.indow.com/illan/illananaics/2017/01/201/wwdy.2010.afilmsweihilite.in.com/indow.com/indow.com/indow/2017/01/2018.

<sup>\*</sup> Rateland from https://www.akapwaitk.com/blogicatik.kom/-acamanics-insights-3187/ Acamat on July 1, 289.

<sup>\*</sup> Rateland from https://www.akayarabl.com/blog/arath.htms-accurates-heights-318.7/ Accurat on July 1, 2009.

<sup>&</sup>lt;sup>24</sup> Rateleval form https://www.silestimair.com/wilestim/wiles/2015/11/wwile-incomencies-incogengering-for-inclognice-biologystes/500001/ Accessed on July 1, 2018.

than the OECD average of 76%.<sup>28</sup> In our studied sample, the South Korean sample was more educated compared to respondents in Canada (75.2% graduating university versus only 41.0%). Koreans have strong technological skills and are ranked with Canadians as among the world's most entrepreneurial citizens.<sup>24</sup> They are among the world's top credit card users and expect their coline purchasing process to be efficient. There is a high interest in quality and houry goods,<sup>25</sup> and environmental and health claims carry weight in the decision process. They use coline resources for the full purchasing process, from exploration to post-purchase reviews.

South Koreans dedicate time to researching and purchasing the best products they can find. Price is important but it generally comes second to high quality. They dedicate time to discovering new products and sharing their interests with others.<sup>26</sup>

## **Highly Connected Customers**

By the end of 2017 South Kures had an internet penetration rate of 95.1%, one of the highest in the world. By comparison, Canada's internet penetration rate is estimated by the Canadan Internet Registration Authority (CIRA) to be around 90%.<sup>27</sup> All Korean age groups between 1D and 59 show internet usage of 99.9%, and even those between 60 and 69 show a usage of 88.8%. In 2018, Korean consumers in the 1D-19 age group spent the most time online, at an average of 189 minutes a day, and this decreases alightly in a linear fashion over the age groups, although even those over 50 spent an average of 131 minutes per day on the internet. In similar fashion, 24.5% of Koreans spent 7-14 hours online per week, while 24.9% spent 14-21 hours, 25.8% spent 21-35 hours, and 8.7% spent 35 hours or more.<sup>24</sup>

## Health and Wellness Conscious

South Karsans have high concern for personal health. This is evidenced by a steady increase in the number of health-care service providers per capita (doctors and numes) and number of heapital beds per capita, and a life expectancy at birth of 82.4 years in 2016,<sup>28</sup> almost identical to Canada's at 82.3 years.<sup>30</sup> The obesity rate in South Korea increased slightly over the 10 years from 2026 to 2017, when it stood at 34.1%; this is still almost half that of Canada, which was around 64% in 2017.<sup>49</sup>

South Korea and Canada face different, although equally serious environmental problems. South Korea is confronted with air pollution in large cities; acid rain; water pollution from the discharge

<sup>&</sup>lt;sup>20</sup> Labeleral, frank <u>https://web.achive.org/web/201606000147/http://www.com/better#inint.org/comatcin/incom/trans.</u> July 1, 2019.

<sup>\*</sup> Latebook from: https://www.com/arco/best-com/cin/actopresson/dp-colling. Accord. on July 1, 2019.

<sup>\*</sup> Latebook from: <u>https://app.lacerpron/worth.lacers.gov/up\_douborace-os.s.lacerprondet/</u> Accessed on July 1, 2009.

<sup>\*</sup> Lateral from <u>https://m.portal.anotooderteels.com/mulyas-cordinis/south-home/southing-the-communes</u>.Accuration.July 1, 2019.

<sup>&</sup>lt;sup>27</sup> Labiani, fons: <u>https://www.thepstechorougheneniner.com/fisiog-story/8201206-constine-interest-maga-in-st-90/</u> Accessed on July 1, 2019.

<sup>\*</sup> Laboral from https://www.satilistecom.goog/ike/oso/statistics/2017/5/conth-hose-sines-weil-for-addite/statust-weildegeby-age/statustation.jtdy 1, 2009.

<sup>\*</sup> Latebreak from: <u>https://www-atableta-com.promp?lkalio.co/atably/51197/land/b-com-in-analia-lanze/</u> Accound on July 1, 2019.

<sup>\*</sup> Latebased from: <u>https://yourheaktingstom.ciki.co/imp/inizie??ioug-co/?/initiatues/101/ific-experiency-at-</u> <u>http://oug/Tangal.eys12/</u> Accessit on July 1, 2019.

<sup>\*</sup> Labiral from https://www.conduce/m/phile.insith/www.con/publications/buildy-ining/doubly-anan-wight-atuapunding-adults.html Accessed on July 1, 2009.

of sewage and industrial effluences and the consequences of drift net fishing. Canada is faced with air pollution and resulting acid rain severely affecting lakes and damaging forests; metal smalting, coalburning utilities, and vehicle emissions impacting agricultural and forest productivity; and ocean waters becoming contaminated due to agricultural, industrial, mining, and forestry activities.<sup>32</sup> While the green movement has been active and prominent in Canada for some time, the Green Party in Koren was only established in 2012, and although still very small, remains active.<sup>33</sup>

## The E-commerce Shopping Process

There are many models of the unline purchasing process, mostly based on so-called "hierarchy of effects" models, the first of which were referred to by Berthum, Watson, and Pitt in 1995.<sup>34</sup> These all view the coline purchasing process as a hierarchy of activities that a shapper goes through, from first becoming aware of their needs and searching for information, through purchase, payment, receiving their purchases, and then providing feedback, or perhaps returning their purchases. We present a simple example of one of these hierarchical models in the diagram below:



South Korean consumers use online resources for the full e-commerce shopping process, from exploration and product research to providing post-purchase reviews. They expect to be directed throughout the online buying process. These consumers forour a simple and easy-to-use service and process. Online retailing is showcasing a strong convergence with other platforms. For example, internet sites, social network services, and TV home purchasing services all provide colline abopping functions. The popularity of these platforms is on the rise, driven by the desire for a one-stop option to research, purchase (including online payment), and provide product reviews. Around 3.92 million mobile transaction payments per day were made in Korea during 2018.<sup>55</sup> The average daily value of mobile payment transactions made in South Korea in 2018, by type of provider (in billion South Korean won) was 53.14 to offline establishments, 48.63 to online retailers/menufacturess, and 24.25 to online communication technologies. The main colline payment platforms used were Samsung Pay, SSC Pay, Smile Pay, and L Pay.

<sup>\*</sup> Laboral from https://www.addona.atazam/country/info/tain/Review.add/Countrinon\_Accuration Accuration\_Accu

<sup>\*</sup> Latebreak from: <u>http://www.skynome.org/mglidd/</u> Accuration\_July 1, 2008.

<sup>\*</sup> Instinu, Fiers, Layland I. Pitt, and Richard T. Watana. 1995. "The World Wide Web as an advertising median." Journal of Advertising Research 35. 1: 43–54, see also Watana, Tichard T., Places Berthan, Layland B. Pitt, and Gange M. Zialdan. 2014. "Hartencic connectors: The strategic prospective." Fort World, Tic The Daylon Ress.

<sup>\*</sup> Lashval form https://www.statika.com.gov.plb.do.co/statikita/101575/natik-in-so-m-gay-and-to-sovetion-skily-molen/ Account on July 1, 2019.

## Product Research

Online shappers in South Korea tend to search and buy online, with 45% of consumers following this path. A smaller percentage will search in sture but buy online (14%), and 11% will search online but buy in store.<sup>46</sup> Some media attention was given in Korea around 2010 to the reviews of so-called "Twinsumers," shopping behaviour that essentially means that one purchases products based on the reviews of others that people feel are similar to them in preferences and values (their online "twin"). More recently, this phenomenon has become less significant as consumers turn more to major online influencess, for example, the Kardashians in North America and Jungkook in Korea, who has more than 6.2 million followers on Instagram.

## Purchase

When considering which online provider to use, research in 2014 indicated that South Korean consumers contemplate a variety of factors, including the availability of product details and photos (23%), consumer or peer reviews (21%), product selection (18%), and retailer's reputation (16%), among other factors such as delivery speed, return policy, pick-up location options, and convenience, as well as the number of delivery options available.<sup>34</sup>

In the same study,<sup>34</sup> South Korean online shappers were least satisfied with their ability to live that with retailers to ask questions, create an account, and store their information on the platform for future use, their ability to find or contact a customer service representative, and their ability to find an online retailer's return policy.

South Roman customers cross-border abop online primarily in three ways:

- 1. Furthesing directly from an organization's website (-38%);
- Using deputy purchasing agents who purchase the products for consumers and then have them shipped to Korea (-33%); and
- 3. Using local e-commerce websites that assist foreign vendors (-295).

Consumers will use deputy purchasing agencies when there are barriers to online cross-border abapping, such as language considerations or concerns with the transaction process. For a commission fee, the agency will bandle any inquiries and issues that may arise. The typical commission fee for this service is 10% to 20% based on the price of the goods.<sup>4</sup> For products in high demand, these agencies can sometimes be seen as distributors in South Kores. Large deputy purchasing agents include Poombuy, Wirwid, Narmbop, and Njoy New York.

<sup>\*</sup> Lateral from https://www.abibio.com/group.likelo.co/study/20255/-commune.io-conth.htms-abibio-domin/ Accessed on July 1, 2018.

<sup>\*\*</sup> Laberal from: http://www.docentinee.co.lo/www.form/bis/2015/10/128\_78894.html Accessed on July 1, 2019

<sup>\*</sup> Laboral from: https://www.statista.com.group.likelo.co.iataly/2005/s-commune.io-arath.io-arath.io-doubs/.foremod.on July 1, 2008.

<sup>\*</sup> Labieral from Statists 28.4 <u>http://www.statiste.com/statistic/L41685/unsumer-asidestice-search-laousing-aspeciesco-</u> mins-inves/Accessed on July 1, 28.9.

Communentity of Antrolia and Antroda, 2017. E Commune in Ensure A Guide for Antrodam Environ. Conferenza, Antrolia.

# Payment

With regard to card use, it is important to distinguish between credit cards and debit cards as plastic cards consumers use for payment. As far back as 2011, South Korea became the most plasticoriented country in the world, with consumers there using plastic – a credit or debit card – on average 129.7 times per year, compared to Canada at 89.6 times per year. Canadians have a higher penetration of credit cards than Koreana, with 83% of Canadian individuals owning at least one credit cards in 2017 versus 64% of Koreana.<sup>40</sup> In 2017, Korean households had the highest arrange number of cards, at 6.7 cards per household.<sup>42</sup> According to the Korean Consumer Agency (KCA), "By 2016 only about 20% of all payments in Korea were being made with cash – among the lowest in the world – according to the Back of Korea. The central bank of Korea is aiming for the country to go cashless by 2020, beginning with plans to phase out coins so as to reduce the cast of mining them. It has already cut back on issuing paper money.<sup>44</sup> The KCA is a government organization, which was founded on the guiding principle of protecting consumer rights and interests, promoting rational consumption, and contributing to the development of the nation's economy.<sup>44</sup>

In South Koren, 34% of consumers use social media psyment gateways such as Kakso Pay and Naver Pay when shopping online on their mobile device.<sup>46</sup> An additional 29% prefer using a bank psyment app, such as Samsung Card and mpacket.<sup>46</sup>

One of South Korea's biggest e-commerce platforms, WeMakePrice, also known as Wemepu, is integrating cryptocurrencies such as Bitcoin, Ethereum, and Litecoin in collaboration with Bithumb, the nation's biggest cryptocurrency suchange. The collaboration will allow WeMakePrice to accept cryptocurrencies as part of the misting payment platform, OneThePay. Users will not have to register with Bithumb in order to pay for goods and services as the application will be fully integrated into their current infrastructure. However, while cryptocurrencies are a bot topic, contion is recommended because recently the government has placed very strict regulations on the trading of cryptocurrencies by citizens and foreigners alike.

# Delivery

When consumers make a purchase online, the products may be delivered via a delivery agency office. In South Korean, the number of specialized package-posting companies is increasing. Prior to 2009, South Koreans living abroad, international students, and small enterprises provided this service. Since then, Malitail has opened distribution centres in the United States and has begun providing this service, focusing at first on Korean customers. Malitail describes itself as the leading parcel-forwarding service in Asia, with over a million users. Its infrastructure enables it to reach customers over many thousands of miles and provides a parcel-forwarding service

<sup>&</sup>lt;sup>ar</sup> Labinai franz <mark>http://www.statista.com/gray/likefo.co/statistic/57877//oww.schip.of.co.iit.co.in.giuluity-by-constry/ Accessed on July 1, 2018</mark>

<sup>\*</sup> Latrianal. Some <u>https://www-atableta-com.prosp.lika/io.co/atabletics/65/858/coulit-cords-per-konsubald-by-country/</u>.Accessed on July 1, 2019.

<sup>\*</sup> Lational from: https://www.stollations.com/wie/web.ast\_oub.is.htmls\_insta-asth-lauxe\_Azonados\_July 1, 2018.

<sup>•</sup> Labelevel. from: <u>http://mgliak.ics.go.br/induzite</u> Accound on July 1, 2018.

<sup>\*</sup> Latrianal franchippe//www.statiste.com/statistics/652865/conth-laces-incling-type==f-mabile-payment-services/Accessed on July 1, 2019.

<sup>\*</sup> Laboral. Some <u>https://www.statiste.com/statistics/653865/conth.labora-inding-type-of-achile-paperat-service/</u> Account.com July 1, 2019.

where packages are received from one party and delivered to the customer's door. In addition to this basic forwarding service, Malitail provides various services to overcome the abortcomings of international coline abopting markets.<sup>47</sup>

Nowadays Malitail provides services and solutions for consumers shopping in other countries as well, including the United States, Japan, China, and Germany. The company provides customers with a unique local address that they can use to complete shipping information on e-commerce sites outside of their home nation. Malitail will also inspect the merchandise purchased by its customers, and when necessary, repackage it appropriately for international air shipping, and then ensure that the customer's purchases are delivered to their door. In addition, it provides the service of completing customs declarations and handling import duties.<sup>46</sup>

The other main delivery agencies that now offer international shipping services to South Korea include iporter, Ehaner, New York Girls, Postbay, and Ohmyzip. These organizations do business in the United States, the United Kingdom, Germany, China, and Japan and often strategically place their wavehouses and distribution centres in cities with little or no government taxes.

In the Korean context it is important to differentiate between delivery agencies such as Malitail and deputy purchasing agencies. Malitail provides the service of giving the customer the convenience of having a local address in another country that a supplier can ship to, inspecting and repackaging the goods, and then shipping them to the customer's door with all customs formalities being handled. A deputy purchasing agency (DPA) is a true agent in the sense that it transacts on the customer's behalf. After instruction, the DPA then buys the product on the customer's behalf and delivers it to the customer's home in Korea. However, some DPAs (e.g. Poombuy and Narrabop) are also able to fulfil the functions of parcel-forwarding services.

With the growth of e-commerce, there has also been an increase in business services that support cross-border trade, such as international shipping assistance companies. For instance, Lotte Global Logistics developed an international shipping support company called iDeLiVer. These types of companies offer their customers a local shipping address or wavehouse in the desired country where they can have their goods sent. The company will then deliver the order on their client's behalf. In some cases, these support companies also offer ordering services.

Despite high expectations for logistics and delivery, price still remains a factor. Consumers are willing to weit for a product to arrive if there is a significant cost saving.\*

# Post-purchase – Reviews and Feedback

Kowans are very active on social media: as of January 2019, South Kowa had the third-highest rate of active social media users in the workl.<sup>54</sup> South Kowan consumers produce a high volume of content in the form of reviews and feedback online, providing useful information concerning products specialized to individual consumers. Consumer reviews online are a strong factor in online

<sup>\*</sup> Latebrail from: <u>https://www.molitalian.com/coalital</u>.Account.co. July 1, 2019.

<sup>\*</sup> Lateinsel from: <u>https://www.soliteins.com/coliteit</u>.Account.co. July 1, 2018.

<sup>&</sup>lt;sup>er</sup> för assaylar http://m.gortal.austradiatede.com/analyna-austatio/weth-based-austation\_ding-tim-comeanum\_http://ingust-agort. austategmasela.fr/m/constry/weth-bases/mediat-comeanum\_Accessed one July 1, 2019.

<sup>•</sup> Laboral frank https://www.statistes.com/statistics/282346/mgalar-social-estworking-angu-prostantion-worklobin-by-country/ Account on July 1, 2009.

marketing success and are highlighted as an important element in making purchasing decisions.

#### Returns

It is important to keep the customer relationship strong by providing high-quality after-sales service. Like in Canada, customers generally expect a simple and flexible return policy for unused goods. According to a recent study, 8% of coline consumers in South Koren consider a retailer's return policy when comparison shopping. In addition, the same study found that 29% of online shoppers in South Koren are satisfied with the shifty to find a retailer's return policy during the product search phase.<sup>84</sup>

# Products and Brands

#### Product Categories

By the end of 2017, total South Korean e-commerce revenue across all product categories hit US\$21.38B, and is expected to grow to US\$32.6B by 2021.<sup>52</sup> Popular products that are foreign sourced and bought from online retailers are cosmetics, food, health products and distary supplements, apparel and footweer, and electronics. Fashion, specifically, is currently a leading product category in South Korea, accounting for US\$7B market share, followed by toys, hobbies, and do-it-yourself (decorating, repairing, or making things for the home oneself), which generate US\$4.9B in sales. Travel and reservation services through Korean e-commerce platforms are also popular. Domastic electronic commerce makes up to a quarter of South Korea's total retail industry sales.

#### Cosmopolitan and Luxury Indined Consumers

Overall, South Korean consumption behaviour mirrors other developed economies' consumption behaviours.<sup>50</sup> Here brand names are important, and there is a decreasing focus on only buying products made in South Korea, aspecially when price is a factor and non-domestic products are offered at lower prices. South Korean consumers are mindful of their spending; however, high-end howry spending is still common.<sup>54</sup> Indeed, management consulting firm McKinsey's identified Korea as a major market for howry goods as far back as 2010: "Lawury is a \$4 billion industry, accounting for more than 15% of all fashion spending. It is also becoming part of the fabric of Korean life.<sup>55</sup> More recently it has been noted that South Korea's fashion market makes annual sales of US\$18B at current exchange rates and was expected to grow 3% in 2018 from 2017, partly

Retrieved fearer Statists /study\_id29755\_s-commerce-in-worth-incen-statists-densizepif, p26. Account on July 10, 2009.

<sup>&</sup>lt;sup>10</sup> Retrieved from a https://www.salagourdit.com/blog/anti-laws-concentra-insight-2007/Accessed on July 10, 2008.

<sup>&</sup>lt;sup>—</sup> Retrieved from http://www.statista.com.goory.lik.fo.co/statistics/2472/7/austh-lance.commarce.comgary.ada/Accound on July 10, 2019.

Reviewed from https://www.statista.com/group.likefix.co/statistics/97/1572/auxth-lawes-forbion-groubule-disut-commen-admhy-country-and-orgion/ Accurate adapted in Arty 10, 2019.

<sup>&</sup>lt;sup>24</sup> Among the most important mercurs sequenting this teamb Solding, Rebs., and Martine Jas-Ben. Site. 2010. "South Konen Living it up in heavy? McDinary & Ca. https://www.co.chine.yc.um/~/www/factures/Soldinary/S

due to the popularity of mobile e-commerce, which accounted for US\$9.6B in sales.<sup>28</sup> Online purchases from foreign retailers are stoudily increasing due to price-busting. This is especially prevalent when less-expansive prices are found using foreign websites, even after accounting for international shipping fees and import duties.

# Variety and Uniqueness

Appearance is important in South Koree. As in must developed societies, apparel and fashion items are increasingly used, aspecially by youth, to express their individuality in what has traditionally been a rather uniform society. One aremse to achieve this is by using foreign brands that are viewed as unique due to the limited volume available. Further, Korean beauty products are gaining ground on the international stage thanks not only to the increased international appreciation of Korean pop music, fashion, and culture, but great innovations in chemistry and hinscience. Korean beauty products are known to not only be fashionable but functional as well. While the Korean market would therefore present a trough challenge for Caradian manufacturers<sup>57</sup> to crack, there may yet be e-commerce opportunities for those Canadian firms desiring to import heauty care products from Korea.

# **Online Behaviour**

There are many aspects of South Kurean unline behaviour that are similar to those in Canada. For example, 44% of all internet users in South Kurea watch videos online on a daily basis,<sup>56</sup> alightly more than the 26% of Canadians who reported doing so in 2016.<sup>59</sup> In the early 2008s, domestic platforms such as Never, Tistory, and Cyworld were most popular; however, online behaviour in the country is beginning to change. In recent years, social media platforms such as YouTube and Facebook have made significant ground in Korea; however, KakaoTalk, a local instant messaging application, is equally popular.

South Korea has a hierd of Korean and international search engines arailable. Among the most popular are Neverson, Daum net, Tistury.com, and Google.

The five must popular website properties in Korea in 2018 are shown and described in the table below: •

- <sup>28</sup> Retrieved from https://www.incodific.tep/orbits-age-and-coming-commilian-basedy-baseds-that-are-going-to-ba-largein-2018-1.4942772 Account.on July 10, 2839.
- 🖷 Retrieved from Statists 2018 study, ja72775, jutarnat-range in-south Jacob statistic-domine, pDF, p. 22 Accessed on July 10, 2019.

Retrieved from: <a href="https://www-statista-conspony/likafia.co/statistics/97858/south-loses-fashina-industry-market-size/">https://www-statista-conspony/likafia.co/statistics/97858/south-loses-fashina-industry-market-size/</a> on July 10, 2018.

<sup>\*</sup> Retrieved forms https://doi.org/inthody/doi.org/integed-to-ord/org/integed-to-org Integed-to-org/integed-to-org/integed-to-org/integed-to-org/integed-to-org/integed-to-org/integed-to-org/integed-to-org/integed-to-org/integed-to-org/integed-to-org/integed-to-org/integed-to-org/integed-to-org/integed-to-org/integed-t

Retrieved from Statists 2018 study jd22775\_jutarsat-enge is-conth-locus-statists-dualacpdf, p. 22 Accessed on July 10, 2029.

WEBSITE	NUMBER OF UNIQUE VISITORS (MILLIONS) IN 2018	DESCRIPTION	ORIGIN
Naver.com	29.1	The first web portal in Korea to develop and use its own search engine, and also the first operator to introduce a comprehensive search feature that compiles search results from various categories and presents them in a single page. Now provides services such as email and news as well as the online Q&A platform Knowledge iN.	Founded in South Korea in 1999.
Deum.net	21.8	Web portal very similar to Never offering web-based email, a measage service, forums, shopping, and news and webtoon services. Purchased planser search engine Lycos for US\$95.4M in 2004 as a way of building search capacity; sold Lycos for US\$36M in 2010.	Founded in 1997. Owned by Kaleso Corporation.
Tistory.com	17.0	A blog-publishing service that allows private or multi-user blogs. As of 2007, all services were acquired by Daum.	Started by Tatter and Company, a blogging platform developing company that developed the software Tattertools with Daum in 2006.
Youtube.com	13.51	US-based video-sharing website headquartered in San Bruno, California. Acquired by Google in 2006 for US\$1.68. Now a Google subsidiery.	Started by three formal PayPal employees in 2005.
Google.com	13.17	An American multinational technology company that specializes in internet-related services and products, which include online advertising technologies, cloud computing, software, and hardware, but still mainly thought of as the world's most popular search engine. Google had 1.9 billion active monthly users. <sup>61</sup>	Founded in 1998 by Larry Page and Sergey Brin in Silicon Valley.

Intrieved from https://tochjary.ort/state-shout/gough/Accessed on July 10, 2019.

# Mobile Evalution

The mobile evolution is entrenched in South Kores. Overall internet penetration in South Kores. is over 92%, and mobile penetration is at almost 80%. In 2017, 40.18 million people used the internet on their mobile phones in South Kores, with an estimated 41.75 million in 2019, and that number expected to rise to 42.97 million by 2022. The penetration rate in 2017 was 78.13%, with an estimate of 80.48% in 2019. It is expected to reach 82% by 2022. In 2017, mobile e-commerce accounted for 52% of internet sales in South Kores.<sup>42</sup>

Mobile e-commerce is the main driver of the explosive e-commerce growth. While online adopping grew by 19.2% in 2017, mobile e-commerce increased by 34.6%. Purchases from mobile platforms make up 61% of the total market value.<sup>60</sup>

# Social Media

South Korea has a high social media penetration rate. By 2018, 49.1% of malas and 47.1% of females in South Korea used social media.<sup>44</sup> The highest number of social media users were in the 18-24 age group, where 82.1% of the group used social media, and the lowest were in the 64+ age group, where 6.9% were users.<sup>46</sup> There are differences by age group with regard to the trust in news appearing on social media: while 22% of Koreans older than 55 would trust news on social media, only 12% of those in the 25-34 age group would do so.<sup>46</sup>

# Social Media Platforms

With regard to social media, two indicators are important. The first is that of penetration, or what percentage of the population uses them. The second is that of usage frequency, or which social mediam a person would use must frequently. The leading social media networks in South Koree in 2018 by level of penetration are:<sup>67</sup>

- 1. YouTube (74%);
- 2. Facebook (62%);
- 3. KakanTalk (S8%);
- Instagram (39%);
- 5. Google Plus (29%);
- 6. Twitter (38%);
- 7. Facebook Measonger (24%);

<sup>=</sup> Latebrai, from: Statists 20.8 study. jd23175. jate cost mage in south Jacob statists densire.pdf Account on July 10, 20.9.

<sup>🖷</sup> Latebaral from Statists 20.8 study jd20755 🤌 commerce in work laten statists densinguit Account on July 20, 2019.

<sup>\*</sup> Laboral from https://www.statiste.com/group/ite/ore/italiatio/771624/conft.incesonial.andingumatation.bygunlas/ Account on July 10, 2019.

<sup>\*</sup> Labinal four http://www.sbibis.com.group.likelo.co/stabitio/752718/costh.houre-archi-media-posstation-by-age-group/ Account on July 10, 2019.

<sup>\*</sup> Laboral from: https://www.abilists.com.promplikalio.co/abilistics/962096/conth-house-oran and al-amilio-treat-by-age/Accasad. on. July 10, 2019.

<sup>🖛</sup> Natebook from: Statistic atmly: jd22775, joterost-range in-anath-hanes-atabiats-duminequili, p. 21. Azzanal. on July 10, 2019.

- 8. LINE (15%);
- Skype (10%);
- 10. Tumhler (10%);
- 11. Twitch TV (8%); and
- 12. WeChat (7%).

In 2018, Facebook was the most popular social media platform in South Korea, with around 28.9% of survey respondents in that year stating that they used it the most frequently out of all the other social media services. The other leading social media in South Korea by frequency of use in 2018 are shown below.<sup>40</sup>

- Facebook (28.9%);
- Kakao Story (Z3.8%);
- Instagram (17.4%);
- Twitter (12.5%); and
- Naver Band (12.5%).

#### Social Media Influencers

Fashion trends are important and influencers such as pop stars, celebrities, and actors have a strong impact on consumer preferences. As of January 2018, South Korea had approximately 43 million active social media users. In September 2017, South Korea had the highest rate of social media penetration among all Asia Facific countries at 84%.<sup>49</sup> Given the mgoing growth of social media networks and users in the country, influencers are an important aspect of the e-commerce landscape. Similar to North America, in South Korea, influencer marketing is growing, with 15% of consumers buying products that they have seen on social media. In 2018, Lee Minho was the leading social media influencer on Facebook, with 17.5 million fame, followed by Hi-Mart (1.7 million), PST (10.8 million), BIGBANG (10.7 million), and 2NR1 (9.0 million).<sup>40</sup> Instagram has also become a very relevant barometer of social trends in South Korea.<sup>40</sup> The four Korean influencers currently with the must followers on Instagram are EKO\_CY (17.9 million followers),<sup>40</sup> Sehun (16.4 million followers),<sup>40</sup> and Beakhymee (15 million followers).<sup>40</sup>

- <sup>20</sup> Rateinend from: <u>https://www.instegram.com/mol\_pry/Oil-en</u> Accessed on July 10, 2019.
- <sup>20</sup> Ratebreak from: <u>https://www.instegram.com/oohnthuro/Tol-en</u> Account on July 10, 2018.
- <sup>2</sup> Latebook from: <u>https://www.instagoom.com/wwiligitegs/761-m\_</u>forumat.us\_July 10, 2019.
- <sup>2</sup> Labeland, from: <u>https://www.instegram.com/buility.com/an/201-en\_Accound on July 2019.</u>

<sup>\*</sup> Laboral from: https://www.statista.com.group.likelia.co/statistics/322748/conth.htma.comt.gop.im.social.contin/.forumat.m. July 10, 2019.

<sup>\*</sup> Lateinsel, from: Statists study\_id23775\_internet-mage-in-anth-lance-statists-dominspift Accessel on July 10, 2019.

<sup>\*</sup>https://www.woodella.htm.com/statistics/isosbook/pages/intel/earth.htmss/Accuration.July10, 2019.

<sup>&</sup>lt;sup>20</sup> Laberal from <u>https://www.compl.com/athch/1280701.opp/integran-bross.com/s.2018-popular-accents</u> Accend on July 10, 2019.

As in North America, in South Korea brands are seen as part of the customer's self-expression and an indication of social status. Social media influencers are key in this market as their preferences and endorsements can impact consumer decision-making and set future trends. As influencers often come from the entertainment industry, live streaming and fandoms are trends of particular interest.

Women in Korea shop online slightly more than do men, with 57% of women reporting having made an unline purchase in 2015 versus 50% of men.<sup>20</sup> Those aged 20-29 (81.2%) and those aged 20-29 (78.2) were the most prolific online shoppers in Korea in the same year. The most cited reasons for shopping online by Koreans in 2018 were (in order of mention): convenience (55%), price (54%), easy payment (25%), and quick and convenient shipping (24%).<sup>27</sup>

# Shopping Events and Timing

There are a number of important days of celebration in South Korea that impact consumer shopping and consumption behaviour. Some of the more important ones are described briefly in the table below, and the implications for e-commerce explained. From an e-commerce perspective, this means getting the website genred up for seasonal purchasing, making sure that the most desired purchases are available and adequately promoted, and ensuring that logistics and deliveries are genred up to make on-time delivery of orders.<sup>70,70</sup> It is also important to note that many stores and all post offices are closed during these times.

	WHEN CELEBRATED	BRIEF DESCRIPTION	E-COMMERCE
lı (t	1st day of Korean lunar calendar (usually January/ February), three- day duration	This is a time for remembering ancestors, visiting family, enjoying great food, and having fun. <sup>81</sup>	Seollal is one of the three biggest buying holidays in South Korea. <sup>82</sup> Many stores are closed during this time, and so much of the purchasing of gifts and food to be prepared occurs before the holiday. Nowadays many of these purchases occur online to avoid the rush and

<sup>2</sup> Retrieved from https://www.statista.com/group.lik.civ.ce/statistics/22578564ace\_af\_interest\_singpres\_in-conficience-by-gaular/ Accessed on July 10, 2019.

<sup>27</sup> Relationed from a <u>https://www.statiota-conceptury.lik.ofa.ce/statiotics/957289/scanne-coline-shopping-anth-lance/</u>Accound co. July 11, 2019.

<sup>22</sup> Retrieved forme https://www.jacia.auto/putt/house.auto-puts/hilling-codin-house/experymenting-puts-size-auto-size/auto-size/ 10, 2018.

"<sup>9</sup> Retrieved forms https://www.jacia.edo/jact/incore awaysers/hild.genedia.incore by program/incore awaysers/he decommit on July 10, 2018.

Retrieved from: https://www.statists.com.pumplik.afa.co/statistics/226782/slace-of-interest-shappers-in-scath-laces-by-agegroup/ increased on July 10, 2019.

Retrieved from https://winarchity.org/force/arcitel.incere.incer.arc.your Account.on July 10, 2009.

<sup>17</sup> Retrieved from https://dog.gog.a.as/a-compares/country-gotfight/country-gotfight-couth-hous-show-strong-s-communegoerth/.Account on July 20, 2019.

CELEBRATION DAY	WHEN CELEBRATED	BRIEF DESCRIPTION	E-COMMERCE IMPLICATIONS
Seollal			the heavy traffic of the holiday. Gifts for parents are part of the celebration and include ginseng, honey, health products, massage chairs, toiletry gift sets, and food treats. <sup>83</sup>
Chuaeok ( alao Ienown as Konsan Thanksgiving Dey In English)	15 days of the 8th month of the lunar calendar on the full moon. <sup>14</sup> Lasts three days.	Churreck was originally a harvest factival, but in modern Korea It is an occasion for families and friends to get together and enjoy good food and companionahip.*	Since this is a time of gift-giving and also the purchase of celebratory foods, sales of these items increase by eround 20% in the period leading up to the holiday. <sup>16</sup> For example, in 2018 overall aske for the month of September increased 6.9% due to Chuseok shopping, <sup>47</sup> with online purchases increasing even higher at 8.6%. Both brick-end-moster and online stores tend to have special promotions prior to this holiday, but astute Korsen shoppers also seek bergains online in other countries. <sup>46</sup>
Christmas	December 25	Estimates are that 29% of the South Korean population follow the Christian faith, and the majority of these are Catholics. <sup>97</sup> These Koreans celebrate Christmas more as a religious occasion with less emphasis on gift-giving. <sup>90</sup> However, as in many other countries, many Koreans who are not Christian also celebrate the holiday. South Korea is the only Southeast Asian country to recognize Christmas as a national holiday.	Christmas spirit, as in many Westem nations, begins in Korea in early December, when stores decorate and people begin to plan get-togethers and gifts for others. More uniquely, and especially among secular Koreans, Christmas is celebrated as a time of romance (because Seollal and Chuseok are already time for families), and so the emphasis where gifts are given is on one's romantic partner. Travel and hotels are especially busy at this time, so online bookings of these services increase dramatically. <sup>91</sup>

• Latrianal from https://www.initianan.or.in/am/ATE/31\_36\_jp?chi-940852 Accessed on July 10, 2009.

\* Labievel. Some Rangert in Kanzan. Calibary. Kanzan. Calibary and Information Survive Ministry. http://www.incom.act/Montlle/Ministry-of-Calibary-Sportsand Francism Account on July 10, 2018.

\* Latrianal from <u>https://winocirty.org/locat/https://winokilocate.floalagiding.log</u> Accessed on July 10, 2018.

• Latebared from <u>https://www.soc.ubip.com/bbg/accounce-bbjping-to-hours</u> Account on July 10, 2019.

\* Labelannii, forma <u>http://www.ukuluu.uku.glich/2018.10/20/;</u> 1275/57227.htm, Accurval. on. July 10, 2029.

• Latebarral from https://www.security.com/film/2017/07/2-a-commerce-mediat-in-house-public-commedies-Joly 10, 2018.

\* Latebaud. from: <a href="https://www.gourseauch.org/fort-tools/2014/08/12/6-forts-shout-decisionity-io-conth-house/Accessed on July 10, 2018.</a>

• Labelanal. Grans. https://www.thorganousta.com/dointmas.in.lanes.2118609.Account.on.July10, 2018.

• Latrianal from <u>https://www.fodus.com/hitss/achalpeanark/2017/12/20/webcaus-to-tim-paraduated-world-of-lansan-chaintanae/Web118287/u8b\_Accausel.</u> on July 10, 2019.

CELEBRATION DAY	WHEN CELEBRATED	BRIEF DESCRIPTION	E-COMMERCE IMPLICATIONS
Family Month <sup>®</sup>	May	Constate of three days: Children's Day (May 5) (a national holiday), when children are given gifts and treats by their parents and taken on excursions. Parents' Day (May 8), a day to show gratitude to parents and share a meel with them. Teachers' Day (May 15), a day to honour teachers by current and former students.	Family Month is the third-largest holicity period in Kones. Some anime retailers view the entire month of May as an opportunity to increase sales. For example, Gmeriat, one of the largest online retailers in Kores, holds a Family Month asis every year. A veriety of products are included in the promotion, such as carnetion galands, children's toys, books, health products, electronic appliances, computers, and even message chairs." According to the National Statistics Bureau of Kores, the Korean travelling population in May is the third highest, just behind Secilal and Chuseok. This means an especially bury time for online workba of accommodation, travel, and ascarsions.
		Other significant shopping o	occasions:
Valentine's Day	February 14	In Korea, this is different than in the West. It is mainly women that give men gifts, often in the form of expensive delicacies like fine chocolates. Nowadays women also give gifts to other friends and colleagues, but will make a distinction between "courtesy chocolates" and the "chocolates of pure love." <sup>54</sup> While she will have to wait a month to receive an appropriate response to her gift to a romantic partner, it is worth it for a woman to spend appropriately (see White Day below).	

• Latebreak from <u>https://newis.com/businam-targating-in-house-map-tim-family-month/</u>Accound on July 10, 2019.

\* Ratebook from https://www.fourie.com/busies.targating-in-isone-may-tim-isonily-month/ Account on July 10, 2019.

• Latriaved from: <u>https://highink.com/philip.govp/singles-in-worth-lawe-calibrate-their-oum.html-of-voluntion-sky-and-ite-implicing frommed on July 20, 2009.</u>

CELEBRATION DAY	WHEN CELEBRATED	BRIEF DESCRIPTION	E-COMMERCE IMPLICATIONS
White Day	March 14	The man reciprocetes his Valentine's gift and is expected to observe the Rule of Three: a gift three times the value of what he received in February. He can give candy, but also flowers, stuffed enimals, lingerie, and even jewelry. How he responds signifies what he thinks about the relationship. If he down't reciprocets, this signifies that he down't acknowledge the relationship. If he merely gives a gift of equal value, this can signify that the relationship is over. <sup>36</sup>	White Day is called that for a reasons the importative to intervesive the colour white into gifts as much as possible, for example, by giving white chocolate or wrapping gifts in elegant white packaging. The more the colour white is used, the better. <sup>96</sup>
Pepero Day	November 11	An unofficial day in South Korea that's celebrated by exchanging boxes of Peperos, chocolate-covered cookie sticks that look like the number 1 – hence November 11 (11/11). Friends and couples give each other Peperos, one of the most famous Korean snacks, which are available at any supermarket and also online in South Korea. <sup>97</sup>	
Black Friday	Alweys the day after US Thanksgiving (November 29 In 2019)	Unofficially viewed as the baginning of the Christmas ahopping season, the notion of shopping for real bargains on this day originated in the	Since consumers are prepared to apend on Black Friday if they can find real bargains, websites are advised to identify unique offerings and to make sure that these are offered at great prices. In recent years in South

\* Exclused from: https://bigibiol.com/philipgeory/doginale.com/bious-caldente-their conschied-of-valuation-day-and-in-implicing Account on July 10, 2019.

\* Exclused from: https://highink.com/philip-prov/dogin-in-south-hous-caldoute-timic-com-biod-of-volvetion-day-and-in-implicing Account on July 10, 2019.

\*\* Estabated. Some https://www.house.dow/kite/2018/01/kit/jugero.dog.in.house/Account.on July 10, 2019.

CELEBRATION	WHEN	BRIEF DESCRIPTION	E-COMMERCE
DAY	CELEBRATED		IMPLICATIONS
Black Friday		United States but is now abserved in many other countries, including South Kares.	Korea there has been classification with Black Frichy online abopping. Major online operators, as The Korea Herald noted in 2018, have been accused of offering deals as "dick- bait," experiencing server crashes, offering only very limited quantities of goods at the special prices, and not delivering on time when seles are made. <sup>56</sup>

# Main Stakeholders

# E-commerce Platforms

There is a suite of South Korean retailers with different e-commerce models catering to techsevvy yet time-crunched consumers. There are many marketplaces and coline abopping malls that allow third-party rendom to sell to consumers on their sites. Most major e-commerce companies provide both apps and websites and use different areames to gain and keep customers. For example, Coupang offers a delivery service called "Rocket Delivery" providing same-day delivery.

In 2018, the must popular online shapping options in terms of the number of unique visiturs were:

PLATFORM	NUMBER OF VISITORS	NOTES
11at.co.kr	9.7 milian	E-commerce platform offering a points system that customers can use for discounts on products.
Gmarket.co.kr	9.5 million	E-commerce used to buy and sell goods and services.
Auction.co.ler	8.7 milian	Price comparison site and online suction company.
Interpark.com	6.7 million	Online auction and shopping mall, as well as South Korean music distributor.

Retrieved from http://www.housilecold.com/viewylig?mi-20101030100.001 Account on July 30, 2009.

PLATFORM	NUMBER OF VISITORS	NOTES
Wameleprice.com	6.0 milian	Online sales and advertising platform apectalizing in daily deals, with a wide selection of products.
Coupang.com	5.0 million	One of the fastest-growing e-commerce companies in the world, with a proprietary same-day delivery system.
Ticketomonatar.co.ler	4.5 million	E-commerce site offering a wide range of products and services, including travel pedages.
ssg.com	4.3 million	Online shopping mall provided by the Shinsegae Department Store.
ցանօր.com	3.2 milion	Online shapping platform provided by one of South Korea's leading TV shopping companies.
danawa.com	2.9 million	Originally a technology and electronics shopping mall, which now provides a broad range of offerings.

11st co.kr is an online auction place, as well as an e-commerce nell. This e-commerce platform offers a points system that customers can use for discounts on products. It is owned by a very large South Korean telecommunications provider called SK Telecom. It is free to register as a seller on this platform. One can choose to register as an individual seller, business seller, or global seller. During registration, documents are requested, and once these have been approved products can be linked to the account. This platform also provides business training for sellers. Promotions and downloadable coupons are common here. This was the sixth most popular online property in Korea in 2018 with 9.7 million unique visitors, <sup>-8</sup> 8.34 million of whom were actually aboppers, <sup>-8</sup> reaching 28.9% of the Korean population. <sup>-8</sup> Its revenues for 2017 were US\$440M.<sup>-92</sup>

Genericet co.kr was originally founded as part of an online suction company, and this platform is used to buy and sell goods and services. It was acquired by eBay in 2009 and caters to small and

- 🐃 Intrived force https://www.statiste.com/statiste/2003/force\_sisk\_web\_dapping\_properties/Account on July 10, 2019.
- Intrived from: http://www.eduliate.com/ataliatio/8978/34/conft. Increases it with a commence with iterate / Account on July 10, 2018.
- <sup>22</sup> Intrived from http://www.statiste.com/atatistics/201917/Indi<u>ages.atalice.in.com/atases.com/atases.com/atatistics</u> <u>commune.com/</u>Accuration\_July 10, 2018.

<sup>\*</sup> Retrieved from https://www.stolisto.com/statistics/200348/nove-skilt-veb-graperties/Accessed on July 10, 2018.

medium-sized business sellers. Sellers pay a fee, which is calculated based on item price. This was the seventh most popular online property in Korea in 2018, with 9.46 million unique visitors,<sup>365</sup> 8.95 million of whom were actually shoppers,<sup>364</sup> reaching 30.1% of the Korean population.<sup>366</sup> Its revenues for 2017 were US\$563.48M.<sup>366</sup>

Coupang.com was founded in 2013 by Bon Kim. Much like Amazon.com, Coupang.com showcases a wide range of offerings from various merchants. These include clothing, electronics, food items, household goods, and many others. The platform also has a range of delivery options, including "Rocket Delivery," which provides deliveries within 24 hours of purchase, and "Rocket Fresh," which provides deliveries of fresh or perishable items by 7 a.m. as long as they are ordered by midnight the day before. To achieve these fast deliveries, it employs thousands of delivery personnel – each one known as a "Coupang man." Coupang also offers a payment service known as "RocketPay," which is a proprietary one-touch payment system. Coupang did not feature in the top 1D most popular online properties, although it listed as the sinth must popular shopping site with 6.4 million visitors who were actually shoppers,<sup>20</sup> reaching 20.3% of the Korean population.<sup>300</sup> Its revenues for 2017 were the highest for any Korean e-commerce website at US\$2,313.29M.<sup>300</sup>

The table below organizes the platforms by the type and main activity. In addition to the domestic sites, foreign sites such as Ameron-com and elley are also often used.

General Marketplaces	Apperal Meriotolecas	Department Stores and Retails	Online Auctions	Blogging Services
11st.co.kr	Kaleau Banko	ag.com	Auction.co.ler	Navar
Gmarket.co.kr	Kooding	gsshop.com	Interpark.com	Nate
WaMakePrice	YaaStyla	Lotternell		Kalaso
Coupang.com	MOCOBLING	Hyundai Home Shopping (TV)		

💳 Intrived force https://www.statista.com/attistics/2822/I/acces.sist\_wah.gov\_attin/Accessed on July 10, 2019.

🐃 Intrived from: http://www.statista.com/atatista/28267/acces\_sisk\_sak-dapping-pagestin/Accessed on July 10, 20.9.

<mark>— Internal force https://www.shifeta.com/ataliaka/1928/20/acath.hove.com/acath.eta.com/acathahovya/Acamad on July 10,</mark> 2018.

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🐃 Intrived franchityw//www.intrinte.com/ataliat/a/28287/incea.cish-wik-dapping-parpetine/Account on July 10, 2019.

<sup>—</sup> Intrived from: <u>http://www.skiinte.com/atabio/2020/north.Jonee.com/acate-e-commerce-schake-gr/</u>Acamed on July 20, 2018.

— Intrived force: https://www.statiste.com/atalistics/20/207/indiag.s.astalics-in-south-house-conind-by-concul-web-scommune-wine/Account.com/atalistics/20/207/indiag.s.astalics-in-south-house-conind-by-concul-web-sThe business-to-business (B2B) e-commerce market is very competitive, and it has been difficult for foreign companies to break into the market. While the US government's International Trade Administration's website export gov<sup>300</sup> noted that B2B e-commerce market data on South Korea was not available in June 2018 (and further extensive searches confirmed this), it did report as follows: "... however, due to the explosive expansion of business to consumer (B2C) e-commerce and tough competition among e-commerce players, e-commerce companies have been looking to expand into B2B e-commerce on consumable sales to small and medium size companies."

Genericst was the first to launch a H2B shopping site, called BizON, in 2012. It is relatively simple for a Canadian firm, or any firm for that matter, to register as a woodor on Genericst Riz. The only documents needed are a certification of business registration, a bank statement, a copy of the passport of the representative shown on the business registration, a copy of the seller's registration form on Genericst, and a copy of the seller's confirmation letter on Genericst. The last two documents can be downloaded directly from the platform's very helpful website, which offers other advice and a Q&A service.<sup>10</sup>

Auction.cn kraise has 828 sites, called Biz club for food ingredients and Biz plus for other consumables. (For an insightful video on how to register and operate on these, see https://www.youtube.com/watch?v=sjX2AzR-z?o.) Interpark has I Market Korea, which integrates H2B and B2C services. WeMakePrice started WeMakePrice Bizmall in 2016. With 5.4 million business owners and 3.5 million small and medium-sized companies, the B2B e-commerce market in South Korea is regarded as being very competitive.<sup>372</sup>

# Technology and Infrastructure Landscape

# Infrastructure

South Koren has one of the highest levels of internet penetration in the world, at 95.1%.<sup>213</sup> Internet usage in the country has been growing steadily since 2KKI, when the internet penetration rate was approximately 45%. The country reached the highest internet connection speed in the world by 2017 and maintains that position in this day. In the same year, there were over 26 million unique IPv4 addresses in South Korea, compared with 142.7 million in the United States and 46.2 million in Japan. Korea also had over 21.2 million broadband subscriptions, compared with 39.2 million in Japan and 110 million in the United States.

Accurding to Forbes,<sup>114</sup> South Korea is home of the world's best internet as their internet infrastructure allows for competition that drives down prices and increases service. Thanks to market friendly initiatives by the government, private sector innovation, and high population density, South Koreans have access to multiple internet service providers. Wi-Fi is available in public spaces such as the subway, and access in rural areas is relatively high speed as well, as

Intrieval frank https://www.magort.gov/wiki/201-Frank-rCommany Accuration July 1, 2018.

<sup>🏁</sup> Inteirent franz http://www.incomin.bloft.com/on-incoment.fraign.miler.at.gonalist.in.hennet Account on July 20, 2018.

<sup>&</sup>lt;sup>20</sup> Intrinsul forms https://www.ungoet.gov/wikib?id=Decase/Communes Accumul.un.July10, 2019.

<sup>🏁</sup> Intrivent from: http://www.statista.com/topin/2220/tatarost.com<u>g.is.emath.loca/</u>Account.co.July10, 2019.

<sup>&</sup>lt;sup>201</sup> Intrinent Some https://www.forline.com/Alter/Austraneo.com/2018/12/11/Accom/Interact agraeds Social. Son the workin-Society and Jugast countries in 2018/ACC687/454976 Account on July 10, 2019.

regulations supported the required infrastructure in these areas. Furthermore, by the first quarter of 2018, it was estimated that 60% of miline transactions were made via mobile phones.

In terms of net neutrality, South Koren has strong policies that help to ensure smaller websites receive the same privileges as larger players. South Koren is actively positioning itself as a startupfriendly economy and was rated 19th in the world in this regard in 2019.<sup>106</sup> While the South Korean government heralded a "creative economy drive" in 2012 to faster a startup scene nearly from scratch, the situation is still not perfect, and the country is often overlooked in ferour of other markets, such as Singapore and Hong Kong. Language and cultural herriers are mentioned as a reason for this.<sup>106</sup>

### Intellectual Property

It is illegal to sell counterfaited products on e-commerce sites and to bring any counterfait goods into Korea via cross-border e-commerce. While Korea has strict legislation in place, it has been observed that when it comes to actual enforcement of these rights, especially in the area of counterfaits, the country still needs to more further ahead, just like most other countries around the globe.<sup>317</sup>

Korea has a number of acts governing intellectual property rights. The main pieces of legislation include the Copyright Act, Computer Program Protection Act, Patent Act, Davign Act, Utility Models Act, Tradamerk Act, and Unfair Competition Prevention and Trade Socret Protection Act.

Companies can register intellectual property (IP) for trademarks, patents, and designs coline through the Korean Intellectual Property Office (www.kipu.go.kr). Foreign organizations that do not have an office in Korea must lodge patent, design, and trademark registrations through a Korean IP attorney.

According to the Global Innovation Policy Center (GIPC)'s International IP Index of 2019, South Korea is third in Asia, after Japan and Singapore, and 13th in the world with regard to its intellectual property environment. The GIPC Index consists of five key sets of indicators to map the national intellectual property environment. In 2019 the United States was ranked first with 42.66 points, and South Korea scored 36.06. Canada was ranked 19th with a score of 29.88 points. The key points considered are: (1) patents, related rights, and limitations; (2) copyrights, related rights, and limitations; (3) trademarks, related rights, and limitations; (4) enforcement; and (5) membership and ratification of international treaties.<sup>10</sup> Two Korean companies were rated in the top 10 most innovative companies in the world by number of patents granted in the United States in 2018; Samsung was second and LC Electronics was fifth.<sup>109</sup> Samsung was ranked fifth of the world's companies with the highest spending on research and development in 2018.<sup>200</sup>

<sup>🐃</sup> Retained Search Stign://www.coli.bin/2019/18.412/www.statug-Silenity-constain-io-the-world-2019/ Accessed on July 10, 2019.

<sup>&</sup>lt;sup>en</sup> Reteined Some https://www.Solon.com/iter/ik/incomines/2017/15/25/.eby-antegeneers-come-to-conth-house-and-aby-they-<u>doot/Walk9667/ih/5</u>.formal on Joly 10, 2019.

<sup>🏧</sup> Retained Sama <u>http://www.hana.hua.bl.com/view.php?ul-20181818100611</u> Account on July 10, 2019.

<sup>&</sup>lt;sup>en</sup> Reteined foun http://www.statiste.com.gourylikalis.co/statistics/257582/gjg.interactional.intellatual.gougesty.index/ Accumul on July 10, 2019.

<sup>&</sup>lt;sup>10</sup> Retained Some <u>https://www.statiste-com.goory.Bladic.co/statistics/277280/workie-cont-innovative-companies/Accessed on July 10, 2019.</u>

<sup>&</sup>lt;sup>ee</sup> Retrieved from https://www.statiste.com/prospills/face/statistics/255645/wohing-of-tim-20-composing-with-the-high staspanding-on-prosech-and-development/Accessed on July 20, 2018.

Kozes's national patent office was ranked fourth in the world (after Chine, the United States, and Japan) for issuing the most patents.<sup>221</sup>

### **Consumer Protection**

The Korea Consumer Agency is a government organization that was developed in 1987 in accordance with the Consumer Protection Act to implement consumer protection policies. The Framework Act on Electronic Message and Electronic Commerce (1999) and the Electronic Signature Act (1999) were developed in response to the growing e-commerce sector. In 2002, the E-Commerce Consumer Protection Act was implemented to protect buyers by outlining the fair trade of goods or services via online transactions. The E-Commerce Mediation Committee was developed to resolve disputes between consumers and providers of this platform, as well as between providers and their partners, such as payment services and telecommunication companies. For Canadian firms wishing to conduct e-commerce in Koree, this means complying with legislation that protects Korean consumer rights and understanding that consumers have a right of recourse in cases where defective or faulty goods are delivered, when marketing communication is false or mialending, or when transactions are disputed.

# Personal Information

South Korea's comprehensive Personal Information Protection Act was enacted September 30, 2011, and is among the world's strictest privacy legislation. It protects privacy rights and applies to must organizations, even government departments. The legislation also includes criminal and regulatory finas and even imprisonment, and it is strictly enforced.<sup>122</sup> In June 2018, South Korea became the fifth member to bind to the APEC Cross-Border Privacy Rules, along with the United States, Japan, Canada, and Mexico. These rules establish effective privacy protections while avoiding barriers to information flows and ensuring continued trade and economic growth.<sup>228</sup> For Canadian firms wishing to conduct e-commerce in South Korea, this means that privacy and data protection need to be taken seriously not simply because it is good business, but also because the consequences of any breaches can be costly and severe.

#### Logistics

South Korea has signed free trade agreements with a broad range of countries, supplying South Korean consumers with options, as well as supporting the export of Korean goods to other markets, particularly China. South Korea has free trade agreements with ASRAN, Anstralia, Canada, Chile, China, Colombin, India, New Zealand, Peru, Singapore, the European Union, the European Free Trade Association (Norway, Switzerland, Icaland, and Liechtenstein), the United States, Turkey, and Vietnam.<sup>724</sup> South Korea ranked 25th in the 2016 World Bank Logistics ranking, down from 24th in 2016,<sup>726</sup> and South Koreans have very high expectations for speedy

<sup>&</sup>lt;sup>14</sup> Retained from <u>https://www.statista-com.prosplitutio.co/statistics/257114/cohing-of-tim-20-comateles-with-the-most-point-</u> applications/ Account on July 10, 2018.

<sup>&</sup>lt;sup>ee</sup> Retained from https://kypany/acce/a/gdps-cathdop-anth-lance-present-information-protection-act/Accessel on July 10, 2019.

<sup>&</sup>lt;sup>00</sup> Rateirad fenn http://kypanylaanda/ylyr-entebry-the-specydwey-fermandand-enn-hude-ydwey-mha/Accanden July 10, 2018

<sup>🐃</sup> Retained from https://www.export.gov/actide3d=Ences.Tanks.Agreenenis.Acrossed on July 2019.

<sup>😁</sup> Retained Same <u>https://pl.woddlank.org/international/global/2018</u>.Accound on July 10, 2018.

and trackable delivery. Same-day deliveries are communly offered by domestic South Korean e-retailers such as Coupang, which announced in early January that it would offer dawn delivery, so that orders placed before midnight could be delivered by 7 a.m. the following day.<sup>24</sup>

The country has an extensive network of first-class railways, highways, and domestic air routes. International airports and ports are the point of entry for most imported products. The major cities (Secol, Busan, Incheon, Daegu, and Gwangyang) have modern distribution centres. This is a broad market, where both distribution methods and the use of intermediaries vary wilely by product. Due to high demand, wavehouses and distribution centres can be a scarce resource, and although investment in such facilities has increased, this remains a consideration.

# Import Authorization, Taxes, and Duties

The Canada-Korea Free Trade Agreement (CKFTA) and Korean customs legislation are summarized in the following infographic.

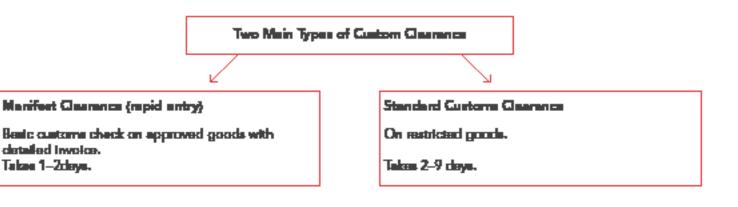
CKFTA: Canada-South Korea Free Trade Agreement. Signed March 11, 2014 by Prime Minister Stephen Harper and President Park Geun-by. Enforced Jenuary 1, 2015. South Korea eliminates 98.2% of tariffs; Canada eliminates 97.8% on mutual imports.

Two Main South Koreen Customs Authorities:

Koreen Customs Service (KCS) enforces legislation. Ministry of Strategy and Rounce (MOSP) develops policy.

KCS determines duty-free regulations:

Items less then US\$150 (US\$200 for US products) duty free for personal use. Items more than US\$150, duties and taxes on top of 10% VAT.



<sup>122</sup> Reteined Some <u>https://www.stecintium.com/ads/ant-ads/down-dailway-in-anth-Josen-tains-estail-industry-by-storm</u> Account on July 1D, 2019. Obviously CKFTA provides numerous opportunities for trade between the two countries. Despite resistance from firms on both sides (for example, the auto industry in Canada and agriculture in South Korea), from a Canadian e-commerce perspective the agreement makes it simpler to either directly set up an online presence in South Korea or to distribute through a Korean online platform. Moreover, the reduction in tariffs on the majority of products afforded by CKFTA enables Canadian firms to compete on a more or less level footing in South Korea. Data for 2017 indicate that CKFTA has had a positive effect for Canadian exporters overall, with an approximate 25% increase in trade for 2017 over 2016.<sup>217</sup> This also had a very positive benefit on the balance of trade with Korea for Canada, turning it in Canada's favour.<sup>218</sup> Apart from mining and agricultural commodities, among the diverse range of Canadian exports for which Korea is a major market for Canadian exports and that lend themselves ideally to e-commerce are appared (Canadian exports to Korea were C\$25M in 2018),<sup>328</sup> ensuries equipment (US\$12.272M in 2018),<sup>318</sup> wine (C\$2.39M in 2016), and ice wine (2,097,0KD litres in 2017).<sup>334</sup>

For information about the Canada-Koren Free Trade Agreement (CKFTA), visit: <u>http://</u> international.gc.ca/trade-agreementa-accords-commercianz/agr-acc/korea-curee/overviewagencu.asprflang=eng (last accessed on July 16, 2019).

#### Product Import Logistics

As of 2015, people who purchase products online have been encouraged to get an e-dearance registration number called a Personal Customs Clearance Cule, also known as an Individual Customs Number. These numbers are issued by the Koren Customs Service to expedite the clearance process. A resident registration number can also be used to receive products from crass-border e-commerce. In 2016, 3.4 million Koreans had an Individual Customs Number. Women accounted for 56% of the total number issued. Individuals in their thirties represented approximately 45%.

<sup>&</sup>lt;sup>ee</sup> Retained Some https://www.statiste.com.gourySile.cie.co/statistice/S7/300/worth-lawse.importal\_goode-whee-Som-consdeaince-Som-toole-ogeneeust/Account on July 20, 2019.

<sup>&</sup>lt;sup>10</sup> Retained from https://www.statisto.com/program/likefia.co/statistice/57/919/wwsb-inves-tools-belows-with-superior-fromtools-agreement/ iterated on July 10, 2019.

<sup>🐃</sup> Retained Sourch <u>https://www.statiste.com.prospill.afa.co/statistics/551775/weath-inves.prt-food-import-wins-Sour-constle/</u> Account on July 10, 2019.

<sup>🚥</sup> Retained Some https://www.statisto.com.gourylikulis.co/statistic.2457785/com/ilen.tools.bakers.col.anvious.by-com/ty/ Account on July 10, 2019.

<sup>&</sup>lt;sup>en</sup> Reteined fram http://www.statiste.com.group.ik.div.c/statistice/SSHM 1/volke.organt-rolm-dustination.com.ala/ Account on. July 11, 218 %

<sup>&</sup>lt;sup>199</sup> Retained Some https://www.statiste.com/prov/likufo.co/statistic/201722/heiling-organi-comtedm-for-oppord-comede/ Account on July 1D, 2018.

<sup>🏧</sup> Retained Seam <u>https://www.statisto.com.peny.likuliu.cy/statistics/559221/envoim-apalpment-asport-value-dustinativo-curvals/</u> Accurved on July 10, 2019.

<sup>&</sup>lt;sup>na</sup> Reteined from http://www.statisto.com.groupill.afr.co/statistic/870940/in-wise-opert-volume-coords-datisation/Account. un.July 10, 2019.

# For Canadian Firms Contemplating E-commerce in South Kores: Marketing Considerations

E-commerce in South Korea is expected to continue to grow and develop, with more domestic and foreign players entering the market. South Korea is expected to show particularly strong growth in total e-commerce revenue. Statista<sup>355</sup> projects that retail e-commerce sales in South Korea will be US\$68,554M in 2019 and increase to US\$80,305M by 2023. Average revenue per user is also expected to continue to steadily increase.

The busy lifestyle of consumers and their high fluency with digital technology makes e-commerce an attractive alternative to speeding time travelling to stores and shopping. Combining the ample infrastructure and technology serviness with growing disposable incomes, consumers are expected to continue to seek products that offer convenience.

Canada is already a top 10 provider of agri-food and seafood products to Korea, and is also active in other markets. Additionally, the free trade agreement with Canada continues to open up interesting avenues to enter the market. The Canadian Trade Commissioner Service<sup>304</sup> for South Korea is a resource to potentially draw upon when looking to further commercial relationships in the region. Areas that are expected to continue to be on the rise are food related, such as commission packaged food, where sales have been seen to grow steadily.

Other product areas that continue to warrant attantion include consumer products, forestry and word, and sustainable technologies.

From the perspective of a Canadian firm considering some kind of e-commerce initiative in South Korea, there is much that is positive, as evidenced in this report so far. The country is availed of the best internet technology in the world, and its citizens are not only among the world's highest users of smartphones but are also willing to embrace innovations and new technologies. Korea is an appealing and lucrative market, and CKPTA means that for it will be easy for Canadian forms to enter the market, at least from an administrative perspective. The average Korean is reasonably wealthy by world standards: per capita income (in 2017) is around US\$39,44D, and of the major nations in Asia, only Thiwan (US\$50,30X) and Japan (US\$42,80X) were higher, compared to Canada at US\$44,34D.<sup>597</sup> This means that Koreans have high discretionary income and are willing to spend it on themselves and their families, to enjoy new offerings and to celebrate special belidays.

However, as Korean marketing consultant Olivia Song points out, many major Western brands have been facted into thinking that the Korean market is an easy one to enter and have experienced serious problems in doing so as a result. She points to firms such as Walmart, Carrefour, and Uber and argues that firms that adopt an over-simplified strategy of transplanting to Korea what they have done in their home markets will usually fail. In doing so they seriously underestimate the uniqueness of the Korean market.<sup>336</sup> Dr. Chang Hom Oh, William Seywell

<sup>🐃</sup> Intrivent frans: https://www.statista.com/authole/242/12/accenters/auth-large\_Accenter\_http://www.statista.com/authole/242/12/accenters/auth-large\_Accenter\_https://www.statista.com/authole/242/12/accenters/auth-large\_Accenter\_https://www.statista.com/authole/242/12/accenters/auth-large\_Accenter\_https://www.statista.com/authole/242/12/accenters/auth-large\_Accenter\_https://www.statista.com/authole/242/12/accenters/auth-large\_Accenter\_https://www.statista.com/authole/242/12/accenters/auth-large\_Accenter\_https://www.statista.com/authole/242/12/accenters/auth-large\_Accenter\_https://www.statista.com/authole/242/12/accenters/auth-large\_Accenter\_https://www.accenters/authole/242/12/accenters/authole/242/12

Intrieval form: <u>https://www.toda.com/inforce.gr.co/o-6/in/index.htm</u> Accessed on July 20, 2019.

<sup>&</sup>lt;mark>— Intrivent form: <u>https://www.cin.gov/liberty/publications/the-world.fortbook/andar/2014sank.html</u>.tcomed on July 20, 2018.</mark>

<sup>\*\*</sup> Intrivul form: http://wedian.com/anarog/29/mediating-in-locar-5-anarticl-tips-to-gat-you-started=86x8ac2x25 Accessed on July 10, 2019.

Professor in Asia Pacific Studies at Simon Fraser University's Beedie School of Basiness and a Korean-Canadian international business expert, remarks, "The biggest issue that Canadian firms will face in Korea is market dynamics and business practices. Everything changes so quickly in Korea, and Koreans really go for trendy services and products. Canadian firms are not familiar with these dynamics and thus it would not be easy for Canadian firms to adjust their business practices and decision-making under such dynamics. I fear that most of them won't be able to move fast enough.<sup>439</sup>

The 4 Cs, 4 Ps framework<sup>14</sup> can be used here for Canadian firms considering an e-commerce initiative in South Kozes. To be able to identify its target market effectively, a firm must first understand who its Customers are, who its Competitors are, who its Collaborators are, and what its Competence is. To be able to optimally meet the needs of its customers, a firm must be able to offer them something unique that its competitors cannot match, because they do not have the collaborators that the firm has, and do not pusses the necessary competence.

Once the firm has identified its target market, it can then construct its marketing mix using the 4 Ps: Product, Price, Place, and Promotion. This means that the firm must provide its target market with the right product (or service, nowadays more commonly referred to as the offering), at the right price, make it available at the place the customer desires it (nowadays more commonly referred to as distribution), and promote the offering to the customer accordingly (nowadays more commonly referred to as marketing communication, which encompasses advertising, personal selling, public relations efforts, unline communication, and promotional tactics). This simple framework is illustrated in the figure below and firms the basis of our discussion on targeting the Korean e-commerce market by Canadian firms that follows.



Penneul interview, Dr. Chang Hum. Ob, Vancauver, June 20, 2029.

<sup>🗝</sup> B 🖉 Sile, Alain J 2005. What is Marinting? Boston, MA: Horvord Basisson School Penn.

#### The 4 Ca

#### Customers

Koreans are reasonably affluent, sophisticated customers who are highly connected and in principle represent an attractive unline market. However, there are some barriers that need to be understood. First, language can be a major stumbling block to many foreign unline marketers. While most Koreans under the age of 6D today have at least a moderate understanding of English – and this is equally true for both genders<sup>10</sup> – potential Canadian e-commerce marketers should understand that communicating in Korean is mandatory and that a simple translation from English will probably not work.<sup>10</sup> It will be worth spending money on messages that are culturally optimized rather than simply translated.

Second, while optimizing search on Google might work well in Canada, Never is far more popular in Korea (used by 92% of the population, versus Google's 65% in 2017).<sup>340</sup> Never uses it own proprietary marketing tools and its entire interface is in Kerean, which means that a firm contemplating an e-commerce initiative would need to acquire these Never skills in order to reach. Never users.

Third, due to the high rate of penetration of smartphones in Kores, accompanied by the fastest mobile connection speed in the world, a majority of Koreans are accessing the internet primarily on their mobile devices today.<sup>344</sup> This means that entrants to the e-commerce market in South Korea need to optimize their contant for mobile devices, rather than simply porting desktop websites to mobile devices, where lack-of-fit mistakes will be readily apparent. Also, because Korean consumers frequently interact with their devices in public spaces, this means that they might not always turn the sound on. So providing headlines and text on video that can summarize the crux of the massage and can be followed on smartphones is a really good idea.

#### Competitors

In many offering categories there are established Korean firms with brands that are both world leaders and enjoy local dominance. Obvious examples are Hyundai in automobiles, Samsung in mobile devices, and LG in electronics. However, there are also other offering categories that might be less obvious to outsiders, such as beauty care products. US and European firms, such as the French brand Sephura, that have attempted to enter the Korean market have found that the local loyalty to homegrown products of equal quality that are sold at lower prices is a very trough force to deal with.<sup>36</sup> In addition, Korean firms in these categories have long track records and a superb understanding of the market. So, a Canadian firm producing whether to enter the South Korean market abould make a very careful study of the competitors already in the market, as well as potential entrants.

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<sup>🏧</sup> Retained Some https://www.auroliting.com/wards-angles-mailating-in-lauro/Account.com.July/10, 2019.

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<sup>\*\*</sup> Extrinved Source <u>https://doi.org/actions/action/Actional-5-large-to-Access-Alight-Lounderting-atomagin-for-content-</u> audienting\_2018/44/75/ Accessed on July 10, 2019.

<sup>&</sup>lt;sup>10</sup> Retained Some https://weikes.com/automoug/19/andering-in-laces.5-an-articl.tips.ta-gat-yan-startal.c%55aa2;76 Accessed on July 10, 2019

#### Collaborators

The term "collaborators" refers to all the external parties that a firm must rely on to reach its target market effectively. These typically include suppliers, intermediaries, systems providers, service providers such as delivery firms, and, in many instances, government at local and national levels. A firm needs to have all of these on its side to effectively target and serve customers. For Canadian firms contemplating the Korean e-commerce market, this means that managing relationships effectively is essential for success.<sup>144</sup> Starting and maintaining relationships takes time and requires resources. For example, the ride hailing service Uber, while successful in many countries, failed badly in Korea when enturing in 2013 because it seemed to have ignored the importance of relationships with the local taxi industry, municipalities, and the government. Uber was obliged to exit Korea in 2015.<sup>147</sup> Only recently (in April 2019) has Uber once more entured the Korean market, but not in its usual ride hailing format. Instead, the company has partnered with local taxi operators to start a service called Uber Taxi. Under this format, Uber customers can use the Uber app in Korea to hail a taxi partner.<sup>344</sup>

#### Competence

There are three main kinds of competence that Canadian firms desiring to enter the e-commerce arms in South Korea will either need to have, develop, or acquire. First, they will need online marketing skills to conceptualize offerings unline in a way that appeals to a sophisticated and connected market. While this could perhaps be said of any e-commerce venture anywhere, it should be realized that the Korean market is truly sophisticated and truly connected, far more than most other nations. This has the effect of creating a virtums circle skin to that argued by Michael Forter's<sup>16</sup> "diamond model" of a nation's competitive advantage. The framework would contend that South Korea has a national advantage in e-commerce because it has strong related and supporting industries to e-commerce (e.g. smartphone and components manufacturers), the factor conditions (skills in internet technologies), and intense rivalry among local e-commerce firms, which causes them to compete fiercely against each other. All of these are in place and these in turn create sophisticated demand conditions – consumers who expect and receive the best, and in so duing further incite suppliers and the industry to do even better. In simple terms, South Korean online consumers won't settle for second best when they already have the best. Entrants that doo't understand this will fail.

Second, Canadian firms wishing to enter the Karean e-commerce market will need to have technical skills above and beyond those used in home markets. For example, maximizing search optimization on Google is a bard task: the tools are complicated and real skills are expensive and rare. Now factor in the fact that Karea operates in another language entirely, and that Google skills, scarce as they may be, are not nearly enough. When Never is the Korean search engine of choice and requires entirely different skills to manage and optimize, the magnitude of the challenge becomes apparent.

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<sup>🏧</sup> Intriend inne https://day.india.y.com/non-patietics.git.exand.com/house Accessed on July 10, 2018.

Intrined from https://pilence.co/advises/hg/pace-30035aa\_200312 Accessed on July 10, 2019.

<sup>🐃</sup> Review, Michael B. 1993. The Computition Advantage of Visitians. Combridge, Mile Harvard Business School Management Programs.

Third, as alloded above, Canadian firms desiring to enter the e-commerce market in Koree will require the skills to build extensive local relationships with parties not directly related to the offering itself. These include internet service providers, courier delivery services, financial institutions, and government departments, in addition to all manner of local partners.

#### The 4 Pa

#### Product

Decisions concerning the offering will not only include the design and conceptualization of the offering itself but also issues such as branding, packaging, labelling, sizes, quantities, and warranties. Shipping offerings purchased online will require strong, secure packaging for the product itself but also for its shipping and delivery. Koren also has specific labelling requirements for products such as pharmaceuticals, as well as for organic and functional food and food produced through biotechnology.<sup>150</sup> There is also extensive legislation in Korea covering product liabilities and warranties.<sup>504</sup>

#### Price

It has long been known that the internet has been a price leveller, because its overall effect has been to reduce search custs for consumers and make markets more efficient.<sup>152</sup> This is certainly the case in Korea, where almost everyone is connected and search engines are used. However, the pricing situation is even more complex in that Korean consumers are used to getting many things for free – free samples are everywhere, and ticket prices for most events are love.<sup>363</sup> For Canadian firms desirous of entering the Korean e-commerce market, this means paying careful attention to competitive prices and finding ways of creative sampling. These might include physical sampling of products, such as food and drink or health-care products at retail locations and public spaces, electronic couponing whereby consumers receive free samples by submitting a virtual coupon colline, or "freemium" strategies for non-physical offerings, whereby a consumer can obtain the basic service for free but will need to pay for more advanced features.

However, as Kurean marketing specialist Grace Song notes, while Korean consumers are very price conscious, this does not mean that they're unwilling to part with money. She observes that FOMO (fear of missing out) is a strong drive among many Korean consumers, and this means that they are quick to adopt new offerings and are willing to pay high prices for these.<sup>154</sup>

<sup>—</sup> Received an explanation of them requirements, see <u>https://wie.for.outle.gov/Lecut/20/GADW2/Debiletions/Ophot/20/G2D</u> Konsid/2009/ADBinted/52D.oh/fogf-200-grinements\_Seed\_Konsid-20\_52D.gobilet-20of\_6-22-2007.gdf Accessed on July 10, 2019.

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<sup>&</sup>lt;sup>ma</sup> Roteined finne http://wwikes.com/antoneg/719/andering-in-lease-5-anential-tipe-ta-gat-yan-startad-2658aa2276. Accessed on July 10, 2019.

# Distribution (Place)

In simple terms, distribution strategy is about determining the path a product or service will take from the time it is produced until the customer takes possession of it. There are two aspects to this: first, who takes title to the offering as it moves along this routs, that is, who owns it, and second, what physical path the offering will take. For a Canadian firm desiring to enter the Korean e-commerce market, this means that two sets of decisions need to be made. First, whether taking title will be simple, as, for example, when a Korean consumer procures the offering directly off the Canadian firm's website, or whether it will of necessity be more complex, if the Canadian firm chanses instead to use intermediaries such as import agents, wholesalers, or large or small. Korean colline presences, which can range from mega sites such as Coupang, to niche players in specialist categories. Second, especially in the case of physical goods, whether the Canadian firm is shipping from Canada or via a warehouse facility in Korea, and whether a third party such as a courier delivery service will be part of the supply chain in either both countries or in Korea alone. These observations bring us back to the admonition to either have, build, or acquire the skills to manage relationships; in this case either with other channel members or members of the physical supply chain.

For most Canadian firms this will require considerable time spent researching potential partners and then in all likelihood being on the ground in Korea to negotiate and strategize with them. Local expertise is crucial, and foreign firms that have been successful in Korea are those that have spent a lot of time finding strong local partners and building relationships with them, in order to obtain expertise at understanding local dynamics and arciding costly local blunders.<sup>105</sup> Firms that succeed in working with foreign partners in coline environments are those that (1) exert considerable resources and time to identifying them; (2) carefully examine their current portfolio of partners and evaluate these; (3) spend time exploring just how well a potential partner markets themselves, which can be a given up and (4), don't expect the channel partner to do all the work. This is true in any international marketing situation; however, in the really dynamic Korean e-commerce arene, paying careful attention to these guidelines will definitely mean the difference between success and failure.

#### Promotion

Promotion, a convenient word because it starts with a P, is more properly conceived of as marketing communication, or how a firm will communicate with its target market. There are many ways in which a firm can do this, including mass media advertising, personal selling, publicity and public relations, and all manner of promotional methods such as samples, competitions, and coupons. In the age of e-commerce all of these tools can be combined, so that advertising (informing, personading, and reminding), selling (undertaking transactions), publicity and public relations (news reports, blogs, social media presence), and all manner of promotional tactics can be conducted online. In the well-connected Korean e-commerce market, there are a number of specific issues that unline Canadian marketing communicators abould take note of.

First, a very large number of Korean consumers use social media in a variety of forms. While Facebook was used by 28.9% of Korean consumers in 2018 and Instagram by 17.4%, social media.

<sup>&</sup>lt;sup>—</sup> Reteined from https://wallane.com/ancomag/719/analyting-in-lasen-5-anantial-tips-ta-gat-you-started-s/55/lan/2676 Account on July 10, 2019.

unique to Korea such as KalaoStory (23.8%) and Never Band (12.5) also command a significant presence.<sup>158</sup> Canadian firms considering using social media tools as part of their marketing communication armoury would be well-advised to incorporate local social media, and will probably have to pay for local expertise in order to do that. One of the benefits of using social media is that users do a lot of the work for you by spreading the message through word of month, but getting that to happen is easier said than done. One of the mechanisms that works very effectively in Korea is that of influencers, discussed briefly in the next paragraph.

Second, there is evidence that using celebrities and influencess in marketing communication works more effectively in South Korea than in Anglo nations such as the United Kingdom, the United States, and Canada. More than 40% of television advertising in South Korea features celebrities, compared to 12% in the United Kingdom, 10% in the United States, and 5% in Canada, according to the international marketing research firm Kantar Milward Brown.<sup>357</sup> While use of celebrities might not directly equate to effectiveness, the large differences in numbers suggest that using celebrities and influencess works more strongly in Korea. Quite simply, Korean marketers are doing it because it works there. This means that Canadan firms seeking an e-commerce presence in Korea abould seriously consider incorporating, depending of course on budget, either a celebrity, such as actress Gianna Jun, or a significant local influencer on social media into their coline marketing communication strategy.

Third, localization of marketing communication is critical in Koren, and this does not simply mean translation. Foreign brands that have succeeded in Koren have all gone beyond translation and developed content that is directly relevant to Korenn andiences, including sensitivity to cultural, historical, and political contexts.<sup>120</sup> For an excellent summary in English of why simple written translation from English into the Korean language is beset with problems, see the post "Korean Localization: Unique Challenges of a Unique Language.<sup>256</sup>

# Canadian Government Help in Entering the Korean and Other Markets

For Canadian firms wishing to enter the Korean market, the most important government office is the Trade Commissioner Service. This government department has representative offices in more than 16D cities internationally. The website<sup>344</sup> provides information on how the department can assist Canadian firms with funding and support programs, and in becoming part of trade missions and events. It also provides information on Canada's trade agreements and country-specific information on tariffs, sanctions, and export controls.

<sup>—</sup> Retrieved finnes <u>https://www.etatiote.com.prosp.likafor.co/atatiotics/757748/wordb-investancet-popular-andol-anality/</u>Azzamed on July 10, 2019.

<sup>==</sup> Retrieved from http://www.allancebrows.com/ork.global/one-thioking/esticlas-opinion/esticlas/band-auttem/2008/ addutting-alian-in-ad-compaigns Accessed on July 10, 2010.

<sup>—</sup> Retained Some https://wwikes.com/accommany/10/mediatiog-in-incentiol-tip-to-gat-yes-started-s95-film/2:76 Account on July 10, 2019.

<sup>&</sup>lt;sup>10</sup> Retrieved Some https://www.acto.Kayu.ucit.com/increa.lawilaction-colum-desitenge-af-o-colum-language/Accessi.com/in/ 10, 2019.

<sup>—</sup> Retrieved Sense https://www.tool.org.com/actionary.com/content-dalagree\_concerning/induc.upu72mg-mg/incensel. on July 10, 2019.

The Canadian Trade Commissioner for South Korea is based in Secul at: 21, Jeonglong-gil, Jung-gu Secul, D4S18 Tel: (82-2) 3783-6000 Rmail: SROUL-TD@international.gc.ca

It's websits can be found at <u>https://www.tradecommissioner.gc.cs/kores-republic-cores-</u> republique/office-buren/index.agriflang=angkoffice=SEOUL. On this website there is information on country market facts (such as the etiquette of doing business in Koree), market reports, trade events, and information on visits by Canadian firms.

# FUTURE OUTLOOK

South Knew is a vibrant, very highly developed e-commerce market that has grown rapidly, and there are a number of factors that suggest this growth will continue into the future. First, the technology and coline infrastructure in Korea is among the best in the world. The massive development investments by major local firms, such as Samsung continuing rapid progress in mobile devices, and the adoption of SG networks that lead the world, will drive e-commerce forward.

Second, as this report has indicated, Korean consumers are now almost all online, particularly on mobile derices. They are generally well-educated and economically prosperous. They are also suphisticated and accustomed to the online environment, and if current trends provide any indication of the future, their use of online platforms will continue to grow. They demand a wide selection of new offerings and the logistics that enable these to be delivered on demand. When they are unable to satisfy their needs on the local market, they will turn to foreign mline platforms, as suggested by strong trends in recent date. There were 14.94 million foreign direct online transactions worth US\$1.32B in the first half of 2018, representing increases of around 36% and 35%, respectively, over the same period in the previous year.<sup>30</sup> This represents transactions opportunities for foreign firms with the right offerings and the right e-commerce strategy in place to enter a very attractive market.

Third, while both technological developments and a large market that is willing and keen to purchase online make Koren a very attractive market, Canadian firms would do well to remember that the market is intensely competitive and that local firms are aggressive in the pursuit of both Korean and oversees markets. Moreover, the pace of change is extremely rapid, which will make marely keeping up a challenge.

Perhaps the most interesting changes in the Kurean e-commerce environment in the future will come from government. Online trading permits a reduction in transaction costs (the costs of search, evaluation, negotiation, etc.), and this allows consumers to obtain offerings at lower prices than in traditional offline markets.<sup>367</sup> The Korean economists Cho, Kim, and Roh argue that there are spillover effects when transaction costs are reduced in one industry to other industries and that these ultimately affect the affect the economy as a whole.<sup>369</sup> Their research shows that when the Korean government reduced tariffs on foreign coline trade, foreign direct online purchasing reduced transaction costs and thereby increased the welface of the Korean economy overall. They recommend that policy-makers pursue initiatives that make e-commerce more active in more diverse industries. The Korean government is almost certainly source of this and the benefits that it brings. Under this scenario there will be even more opportunities for foreign firms (and Canadian firms in particular, given CKPTA) to conduct online business with Korean firms and consumers.

<sup>🗯</sup> San Kasan Cantana Sarvice (awas contenus, golar) Accound on July 10, 2018.

<sup>🕶</sup> Studie, Troy 1, and Michael J. Shew 1997. "Characteristics of electronic markets." Databas Support Systems 21, 24.85-198.

<sup>&</sup>lt;sup>20</sup> Cho, Yanakyo, Tashwan Kim, and Jawabak Rek. 2019. 'In molysis of the effects of electronic commune on the Komm accounty using the CCH masked.' Electronic Commune Remarks 1-24.

# CONCLUSION

South Karen might appear dounting to Canadian firms considering market entry by means of e-commerce. There are a number of challenges. The market is intensely competitive, and major local companies present serious challenges to potential entrants. Consumers are sophisticated and demanding and are accustomed to being served rapidly and well. The pace of change in the e-commerce environment is among the most rapid in the world, and some experts have expressed concern that Canadian firms might not be able to adapt their practices and strategies rapidly enough to succeed.<sup>364</sup>

Nevertheless, there is much that makes e-commerce entry into South Korea an enticing business option. While the country is small in area, its economy is the third largest in Asia after China and Japan; its GDP ranked 12th in 2018 (Canada ranked 10th) and it is the world's seventhlargest exporter.<sup>36</sup> This means that consumers are generally well-off and are prepared to spend their money on offerings that provide novelty, quality, and good value. The country's delivery and logistics services are second to nume, which makes the shipping of offerings purchased online extremely efficient and inexpensive. These indicators are readily apparent, but there is an additional reason to seriously consider South Korea as a market for e-commerce: because the pace of change is so dynamic, the country provides an excellent opportunity for entering firms to learn and keep abreast of developments in the e-commerce sphere. South Korea can be seen as a belive ther in the broad field of technological incoration in general, and for e-commerce in particular. What happens in South Korea today will inevitably happen in other parts of the world in the future, in the e-commerce domain. By being present, studying, and learning from what is happening. Canadian firms might profit financially, but they will almost certainly gain transferable knowledge from being present and active in this dynamic market.

Personal interview, Dr. Chang Hono Ob, Wanneser, June 20, 2018.

Tatrásval ferras <u>https://intebenik.cog/inte/incubral/2002pdf</u> Accuration July 10, 2019.

# **CASE STUDIES**

# Case Study I: Yogiyo

# Food Delivery in Korea

Loog before the advent of food delivery appa such as Skip the Diahes and Door Daah in North America, fast courier delivery of meels was well-established in Korea. Back in the 1960s and 1970s, Korean bruseholds were able in order fast food for home delivery by simply calling a restaurant's number and having a meal delivered to their homes or place of work in a very abort time. The high population density in urban environments, as opposed to the more spreadout populations in North American suborbs, made this a more feasible business not only for restaurants and courier services, but also for other convenience goods and services providers such as dry cleaners and mom-and-pop convenience stores. When the internet became a reality in the 1990s, Koreans began to order coline as well. Apps on smart devices accelerated the trend even further, and as this happened, the competition in the Korean fast food delivery service industry intensified. A major player is Yogiyo.

# Yogiyo and Delivery Hero

Yogiyo is a significant competitor in the Karean food delivery service industry. It is a member of RGP Group Korea Ltd., a company that was founded in Secul in 2011.<sup>344</sup> In December 2018, RGP (restaurant growth partner) Group Korea announced that it would be changing its name to Delivery Hero Korea (DHR).<sup>367</sup> According to DHK CEO Kang Shin-bong, the name change was intended to highlight the importance of the Korean market as one of the largest and most important global markets that Delivery Hero is present in. RGP Korea was established in late 2011 as a regional affiliate of Delivery Hero. Yogiyo was a service launched by RGP at the time of its establishment, and RGP then acquired two other Korean food delivery services, Baedaltoog in 2014 and Foodfly in 2017.<sup>369</sup>

Delivery Here is a German company based in Berlin and listed on the Frankfurt Stock Euchange. The company was founded in May 2011 by Niklas Östberg, whose vision was to be the world's number one find ordering company. It operates in countries in Europe, Asia, Latin America, and the Middle East, and has partnerships with more than a quarter of a million restaurants.<sup>349</sup> It claims to have delivered more than 369 million orders in 2018. Delivery Hero has a policy that foreign offices should run autonomously in a way best suited to each country.<sup>338</sup>

💳 Intrived form: http://massjongauglally/nim.com/orm/article/article.mps?uid=2056458.4cmand.on.July20, 2018.

<sup>&</sup>lt;sup>---</sup> Intrieval Second Stym//www.bloom/waysons/waws.bl/stoche/priests/wayshot.mp?privog61-21.4472757 Accessed on July 10, 2019.

<sup>—</sup> Intrived from: http://www.jourgengl.ukg/prim.com/oran/article/article.mprilukd-3056458.4cmand.om.July 20, 2019.

<sup>—</sup> Intrived from: https://ordcoom/com/2012/05/77/tole-ant-was-last-op-delivery-bas-adva-father-50a-to-soc-just-ast-tophiled-dualaction/Accessed on July 20, 2018.

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Kang Shin-bung, an MBA graduate of Duke University's Fuque School of Business, joined RGP Korea in January 2016 as the chief operating officer, and was then named CEO of the company in July 2017. Previously he was a marketing executive at eBay Chine as well as for the APEC region, and led the acquisition of eBay Korea's Gmarket.<sup>273</sup>

# The Korean Food Delivery Market

While Koreans have been enthusiastic consumers of fast delivered food for many years, Korea is still a very dynamic market in this regard, and the recent past has seen many changes. Advances in mobile technologies and changing demographics have mainly driven these changes.<sup>172</sup> Whereas previously Koreans would order from printed memory by phone, or on websites via home or office desktop computers, the advent of apps on mobile devices now enables ordering and payment to happen with just a few clicks.

Korean demographics are also changing, and there are more single person bruseholds in large Korean cities today than previously. These consumers prefer to order in than to eat out on their own. The Korean market research form Macromill Embrain<sup>103</sup> surveyed 1,KED Koreans of both genders between the ages of 15 and 59 in the first half of 2018 concerning their attitudes toward delivered food and food ordering apps. The study indicated that more than 70% of respondents had used a food delivery app, and that the use of food delivery apps, rather than conventional phone orders, had increased by almost 50% between 2017 and 2018.<sup>274</sup> Not surprisingly, younger consumers were more likely to use food ordering apps, and more than half of the respondents stated that the main reasons for using an app were being able to search, order, and pay for the service on one platform. A number of consumers did indicate their concerns that the pricing policies of food delivery apps were not transparent, and they were concerned with the split of the ticket price between profit to the restaurant and profit to the delivery company behind the app.

# Competition in the Konson Food Delivery App Industry

There are two main players in the Korean food delivery app industry, although there is also a host of smaller firms. The first is Baedal Minjok, which incorrding to most reports is the largest player in the industry.<sup>176</sup> The company was backed by major investors including Goldman Sachs, venture capitalists, and the Korean internet giant Naver when it hunched in 2011.<sup>274</sup> A study by Korean app data analysis firm Increas<sup>377</sup> reported in 2019 that Baedal Minjok had enjoyed app and web traffic of 6.39 million visitors for the month of April. Yogiyo was second with 3.68 million. Burger King was third with 1.23 million, and the Asian fast food chain Lotteris, which originated in Tokyo, was fourth with 630,000 visitors. Baedaltung, also owned by DHK, came in fifth.<sup>136</sup> Interestingly, both Burger King and Lotteria had grown faster in the past year than had Baedal Minjok and Yogiyo.

<sup>🐃</sup> Retained from <u>https://www.delice.phare.com/hunde/pagipa/</u> Accound on July 10, 2018.

<sup>🏧</sup> Ratained Sama <u>http://www.basedonabl.com/ebesphp?ml-20180518100087</u> Account on July 10, 2019.

<sup>🚥</sup> Retained Seam <u>http://www.co.hado.com/cog/inter/interl.org</u> Accessed on July 10, 2018.

<sup>🕶</sup> Retained fanns http://www.lacen.lacal.com/winequip?ml-2018061800087 Account on July 10, 2019.

<sup>🕶</sup> Retrieved form <u>https://pilanove.co.in/view.pip/yea-20.96ao-406548</u> Accessed on July 10, 2019. –

<sup>🚥</sup> Retained Sama <u>http://www.laces.lacel.com/view.php?ml-2018061200082</u> Accessed on July 10, 2019.

<sup>&</sup>lt;sup>100</sup> Retrieved from https://www.incom.com/ww/shout-hereau/abouton/ Account on July 10, 2009.

<sup>🏧</sup> Retained from https://polassema.co.bs/viewydg/ywa=20195aa=006565. Account on July 10, 2019.

Baedal Minjuk was especially visible as a brand because of its independent delivery service called Baemin Riders, a team of motorcycle delivery riders who had been part of the workforce the company gained when it acquired a service provider called Dubaki Call in 2017. Dressed in their attractive light blue uniforms and on their similarly coloured scorters,<sup>374</sup> the Baemin Riders deliver from restaurants that don't offer delivery services of their own, for an additional fee, and in this way provide dimers with more choice. Seemingly in retaliation, DHK acquired Barogo Riders for Togiyo for US\$18.5M in May 2018, having already purchased Foodfly in 2017. Barogo Riders is a similar motorcycle delivery service whose riders also wear distinctive uniforms. The proliferation of these delivery services in the capital, Seoul, prompted the city's Metropolitan Police Agency to sign a memorandum of agreement with all the major delivery companies, including Yogiyo and Baedal Minjek, in January 2018 to promote safe metorcycle riding.<sup>369</sup>

Investment in the industry was significant, especially in the year 2015, and it continues unabated. Baedal Minjuk received KRW\$54.3B of investment in 2012, and this was surpassed by Delivery Hero's KRW65.9B investment in Yogiyo in the same year. Delivery Hero invested a further US\$35M in Yogiyo in 2015.<sup>369</sup> "Knree is a successful and key market for Delivery Hero," said Delivery Hero FR Manager Bodo von Braunmühl at the time. "We won't hold back on investments that will inevitable enable Yogiyo to provide the most suitable solution." Delivery Hero founder Östberg was equally optimistic about Yogiyo's future, stating that the holding company would continue to invest in Yogiyo in order for it to diversify the service that would improve user experiences and bring additional revenue for Yogiyo's restaurant partners.<sup>362</sup>

# Key Takeawaya

- Smartphone apps have changed many industries, from ride sharing and accommodation
  in the food delivery business. While the food delivery business had existed in Korea
  for many years, it was the advent of apps that enabled the industry to enter the phase
  of rapid growth that the Togiyo case illustrates. Whereas ordering by phone and then
  from a computer-based website had been convenient, only apps could provide the real
  benefit of one-stop purchasing, by integrating selection, ordering, and payment into one
  transaction. This is not unique to the food delivery business; the same principles apply in
  a host of other settings. It would be almost impossible to enter many markets in Korea
  indep without having a fast, reliable, and well-designed mobile app.
- The Korean market is intensely competitive and dynamic. As successful as Yogiyu appears in be, there are a number of other very strong competitors. Almost paradoxically, appahave allowed more traditional restaurant chains, such as Burger King and Lotterin, to become major players in the mobile e-commerce market once more, witnessed by their rapid growth. The intense and ever-changing competitive scenario requires that managers monitor the competitive situation and continually revise and update their strategies.

<sup>🚥</sup> Ratained Sama <u>Intig //www.laces.laces.laces.laces.laces.php?int=20180/51800/080</u> Account on July 10, 2019.

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<sup>&</sup>lt;sup>er</sup> Arteined imme <u>http://ww.horsymetel.com/article/985/20151022/nor-m.fool.delivery-pojke bigant-investment.htm</u>.Accessel. en. July 10, 2019.

- Consider why a German firm would enter the Korean market, which it already knows to be highly competitive. The reasons may be twofold: First, the execution of the Korean subsidiary's strategy is still left almost entirely to local executives, trusting that they will know the local market environment for better and be able to execute decisions there. Second, there is much to learn internationally from operating a firm successfully in a highly competitive market like Korea. After that, less competitive and dynamic markets that the building company might decide to enter will be relatively easy by comparison.
- Understand how changes in local demographics can create opportunities. In the case of Kores, for example, an increase in the number of small single-occupant dwallings means a change in the way that people dine. By understanding this change, and developing a solution to it, the home food delivery industry capitalized on a very attractive market.

# Case Study II: Pinkfong and Baby Shark

#### The Baby Shark Phenomenon

In a video on YouTube that has almost 1.5 million views to date, a very cute taddler asks Ameron's digital assistant to "Play Baby Shark."<sup>100</sup> Alexa gets it very wrong the first time, and the toddler quickly stops it and repeats her demand. Alexa gets it wrong again, and this time the frustrated tot abouts it down before repeating her request. Now Alexa plays the version of the song Baby Shark by Johnny Only, which is the right song, but not the version she wants. In frustration the child halls her mother for help. Her mom gets Alexa to play the version of the song her denghtar is looking for: Pinkfong's Baby Shark. The toddler yells her delight and immediately begins to sing along with the song, and to do all the hand movements that accompany it on the song's YouTube video. It is one of the most watched YouTube videos of all time, with almost three billion downloads.<sup>284</sup>

# Pinkfong and Baby Shark

The Baby Shark video features two cute, very young kids singing a very simple song about a family of sharks. It is filmed against a simple series of animated cartoon backdrops. The words are very simple, with each verse introducing a new family member, starting with laby, and moving through the parents and grandparents, and simply eacing m "doo doo doo." As each family member is introduced, the kids in the video do hand movements to mimic the character. In the last verse the shark family decide to go hunting, but the kids happily manage to escape by hiding safely in a large shell. The song is simple enough for children as young as two or three to learn the words, and to mimic the actions of the kids in the video.

The Baby Shark video possesses all of the characteristics of a property that has been referred to as "atickinasa." Stickiness, as defined by Makoim Gladwell<sup>105</sup> in his bestselling book, *The Tapping* Point, is the requirement for a successful message to be memorable to the extent that it can create change and spur someone to action. Gladwell uses the childreo's TV classic Secone Street to illustrate how stickiness works. The producers of the show realized that the attention span of the average five-year-old was very abort, and that for a kids' TV show to hold the attention span of the average five-year-old was very abort, and that for a kids' TV show to hold the attention of its audience it would have to be crafted with the specific purpose of doing this. Indeed, the producers would test scenes for future episciles of the show by showing them to sample audiences of small children, and then deliberately trying to distract these audience members while the scene was playing. For example, people would walk by carrying food, or enter the room and do something silly. If the distraction was successful, these scenes were removed from the abow, under the reasoning that child audiences would not watch them because they were distracted. Argushly Baby Shark has been bogely successful because it possesses all the characteristics of stickiness movement; simple repetitive lyrics and a very simple melody; and a call to action – children are encouraged to minic the actions of the kids in the video.

The song was released in 2016 by the Korean children's entertainment and education company Pinkling, and the video was placed on YouTube. The song first went viral in South Korea, followed

<sup>🎫</sup> Intrievel forme <u>https://www.youtube.com/watch?e-Influif2ajiD</u> Accound on July 10, 2018.

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<sup>💳</sup> Gladwall, Malenica. 2006. 75a Thysing Pearls Flow Little Weinge Care Meles ar By Diglinance. Flow York, MT: Little, Brown.

by the rest of Asia in 2017. The rest of the world quickly took up the song and the viden in 2018. By Jammry 2019 the Baby Shark song featured on the Billboard Top 40 charts in the United States, where it enjoyed a 20-week streak, and also reached number six on the singles charts in the United Kingdom. The Baby Shark song was also featured on the Ellen DeGeneres Show and on James Cordon's Late Late Show, where it was performed by Joah Groban and Sophie Turner. It was also mentioned on social media by major influencers such as Kendall Janner and Cardi B.<sup>306</sup>

Hendquartered in Secol, South Koren, Pinkking is an entertainment company that targets families with young children around the world with content suitable for the education and entertainment of children. The company, whose brand is represented by a playful pink for, <sup>are</sup> has a library of over 4,000 songs and stories in its library, and has won many awards from online giants such as Amazon Video, YouTube, and Google Play.

# Pinkfong and SmartStudy

Finkforg is a subsidiary of SmartStudy. Also based in Seoul, Kurea, SmartStudy is a company founded in 2010 that focuses on children's entertainment and education. It produces videos featuring a range of characters, and these are in a number of languages, including Kurean, English, Chinese, Spanish, and Russian. Its mobile app, which provides content to users, has been downloaded 150 million times by smartphone and tablet owners in more than 100 countries.<sup>204</sup> SmartStudy's CEO Kim Min-seok, aged 38, is the largest shareholder in the company, owning 23.1% of the stock. He is the son of Kim Jin-yung, CEO of Samsung Publishing, which is the second largest shareholder in SmartStudy, with 20.8% of the shares. According to reports in late 2018, SmartStudy was considering a public stock offering in 2020, having sent a request for proposals to major Korean securities firms.<sup>206</sup>

In a recent interview, Finkforg's US-based CEQ, Bin Jeong, talked of the company's founding and its current strategy.<sup>300</sup> From her LinkedIn page,<sup>300</sup> Bin Jeong notes that she has led the company's international business development efforts focused on the US market, to open more distribution channels for digital content, apps, and offline products. She has particularly focused on Finkforg's YouTube operations, paying special attention to metrics. Previously she had worked in digital marketing within the arts and entertainment industries.

Jeong explains that Pinkking was established in Koren in 2016, and opened its US office in 2016, where SmartStudy was already present and employed more than 150 people. Pinkking's objective with regard to content, she argues, is not to get the highest number of views; rather, its obligation is to produce quality educational content for kids. The company consults with educators, scholars, and child psychologists in its attempts to create materials that will work heat for the education and entertainment of children, rather than simply attract lots of downloads.

<sup>—</sup> Extrined from https://www.dw.cs/acfin/g/flowed.gr/promy-24-2019-staff-diflowed-controlo-johong-only-ondmore-1.6929911/tm-long-complicated-biology-of-loby-abody-and-the-activ-fighting-for-condit-1.4929285 Accessed on July 10, 2019.

<sup>&</sup>lt;sup>20</sup> Detrived from https://doi.org/analysis.com/2017/10/14/pinking-p/ Account on July 10, 2018.

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<sup>—</sup> Retrieved Sense <u>https://thusaevyncessaev.com/2007/00/34/pioking-up/</u> Accessed on July 10, 2018.

<sup>—</sup> Retrieved Source <u>https://www.linkadio.com/in/bio-jumg-71175666/</u> Accessed on July 20, 2019.

Jeong is also mindful of the cultural differences between the markets Pinkfong serves. "Because we deliver our content worldwide, we have to consider the cultural differences between countries. What is considered appropriate for kids in one country might not be in another," she says.<sup>362</sup> Finkfong, she goes on to say, focuses on learning videos for children, but also on apps for mobile devices, games, songbooks, and more recently, toys. Other than Baby Shark, its other most popular videos include "Police Car" and "The Lion." The company has already concluded deals with major mline operators such as Amazon Prime and YouTube for the provision of content. Finkforg's future plans include further development of characters and animation series, expansion into other product offerings, and broadening the age appeal of its offerings.

#### Expanding Baby Shark

Baby Shark has expanded well beyond the original video. In June 2019, Pinkfung acknowledged that Baby Shark had enabled it to increase its revenues by 47% over the previous year.<sup>300</sup> Apart from the original video, revenues were boosted by almost 40 licensing deals, including those with well-known companies such as WowWee, Harper Collins, and toy manufacturer Hashro. These covered a wide range of offerings, including toys, health and beauty accessories, food, publishing, and clothing. The Baby Shark range of products on Amazum.com sold out only two days after becoming available in the first half of 2019.<sup>304</sup> The brand is now also featured in concert tours in a number of countries including the United States, the United Kingdom, and Canada, where Finkforg is working with children's media company Nickelodene, and Round Room Live, a premier live entertainment company that has worked with famous brands such as The Rolling Stones.<sup>26,304</sup>

Nickeledem has been particularly enthusiastic about the Baby Shark opportunity and will develop a new original animated series based on Baby Shark for distribution worldwide.<sup>407</sup> This will be accompanied by a bost of other product categories that Nickelodeon will cultivate in partnership with Viscum. Pam Kaufman, president of Viscom Nickelodeon Consumer Products, says, "Our outstanding creative teams are moving fast to get more Baby Shark product across multiple categories to retailers, and our content team is excited to develop a terrific original animated series that will bring this property to new heights and even more fans.<sup>1000</sup> There is even speculation that apps will be developed on Amazon's Alaza and Google Home's voice assistants to further engage kids and their families with Baby Shark.<sup>400</sup> One of PinkEmg's founders, Seungkyu Lee, informed news company Bloomberg that the company was working to develop a stage musical that would debut in North America.<sup>200</sup>

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<sup>—</sup> Retrieved forms https://www.subs.com/2008/05/17/viod-laby-shade-ang-to-anguad-bound-to-ty-concerts-and-mana-latak https://www.lice.org/alml.com/television/piolationg's-lashy-shade-gate-apin-antice\_forms at on. July 10, 2029.

<sup>na</sup> Retained from <u>https://www.abc.com/2003/05/17/dod.loby-abak-ang-to-apand-band-to-ty-concerts-and-asaw.html</u> Accumud on July 10, 2019.

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### Intellectual Property Controversy

The Liberty Korea Party (LKP), a right-wing political party in that country, decided to use a Johnny Only<sup>222</sup> wezzion of the Baby Shark song in 2018<sup>222</sup> that had been on YouTube since 2011 to promote candidates in its political campaigns. Only gave them permission to use it because the song was in the public domain – it was an old German folk song called "Kleiner Hai" (or "small shark").<sup>208</sup>

In Inte 2018, SmartStudy threatened a copyright infringement suit. Johnny Only's YouTube page was soon flooded with comments from Koreans, mostly supporting him. One post encouraged him to take legal action against Finkforg, while another wrote in English, "As I am a Korean, I am diagraceful to this case. Last, I am sorry."<sup>204</sup>

He contacted a Korean intellectual property lawyer, not in chim copyright or in seek compensation, but simply to obtain a Korean court ruling, "on what they think regarding the issue between Pinkking and my version."<sup>200</sup> Pinkforg has not responded to the suit as far as can be accertained. Sconghyun Yoon, SmartStudy's marketing manager, has said simply, "we took a fresh twist and recreated on a traditional singalong chant by adding upbeat rhythms and fresh melody. We have a team of content creators based in South Korea that plans and directs the design, choreography, storyboarding and localization of Finkforg's content."<sup>200,207</sup>

### **Baby Sharic The Future**

After very successful live shows in other countries including the United Kingdom,<sup>20</sup> in June 2019, Pinkfong and Round Room Live announced that they were partnering to embark on a 10XI-city tour of the United States and Canada with a Baby Shark show that would deliver a "fully immensive concert experience.<sup>200</sup> In the show, Baby Shark joins up with his friend, Pinkfong (the little pink fm), to sing and dance such songs as "Five Little Monkeys" and "Wheels m the Bus," both of which are songs that parents have sung to and with their children over many generations, and of course, the Baby Shark song. Tickets for the shows in North America were already available on the milite booking website, StubHub.<sup>20</sup> Naturally there are also a multitude of opportunities for children and their guardians to further engage with the Baby Shark brand

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<sup>—</sup> Rateined from http://www.ukue.com/2019/01/www.lasth-financh-count-and-jeve-media-loby-shedra-hithted-Accountm. July 10, 2019.

Partniwed from https://www.youtube.com/watch?v=h184b0yWaaw\_Accessed on July 10, 2019.

<sup>=</sup> Retrieved forme https://www.dw.ce/collecte/formed.up/herency\_20.7079\_atoff\_dilamand-contende\_johency\_conty\_code

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<sup>—</sup> Retrieved from https://www.urlingstone.com/wwwic.org/fully\_shade-therts\_784765/ Accessed on July 10, 2019.

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<sup>&</sup>lt;mark>— Retrieved feans https://www.blookinglumenedl-avab/aparin1-features/fifturg-dis-boby-abade-swart-asstar-15787988</mark> Accumulan. July 10, 2019

<sup>&</sup>lt;sup>m</sup> Rateined from http://www.co.co.co.ductories.co.flaby-chark.Tex-to-tour.2002-arch-co.co.doin-1.4455055\_Accessi.m. July 10, 2018.

<sup>&</sup>lt;sup>20</sup> Retained from <u>https://www.docomponents.com/www.st/</u> Accessed on July 10, 2019.

<sup>🍱</sup> Ratel and from: https://www.stabledu.co/philosog.laby.ebude.ikus.com/col\_ite.lata/geography/50128035/ Accessed.co..July/10, 2019.

at the shows, with the prospect of seeing and photographing the characters at intervals,<sup>222</sup> and purchasing merchandise including dothing and toys.

Finkforg continues in expand the Baby Shark brand both unline and in the real world. A selection of Baby Shark toys were displayed in January 2019 at the annual Toy Fair at Olympia London, one of the world's major toy exhibitions. Baby Shark Sound Books are carefully designed to ensure an optimal learning experience for children aged 0-3. Each book carries 10 songs and is available in English, Chinese, and Korean. There are also stuffed toys such as the Shark Family Sound Doll whose tummy can be squeezed to hear a "Shark Song." On September 6, 2018, shares in Samsung Publishing (which, as already stated, owns a 20% state in SmartStudy) surged 13.2% in one day's trading on the Secol Stock Exchange, having already increased in value by 76% over the previous year. This was attributed to the fact that on August 31, 2018, the Baby Shark song had become the first children's song to make it in the UK Top 40.<sup>208</sup>

The Baby Shark success story illustrates how a successful e-commerce venture can originate from a very basic idea: a simple concept, in this case a catchy tune with elementary lyrics and a rudimentary but fun video. Finkforg used YouTube as an essentially free broadcast medium to reach a global market; this could only realistically have been done in an coline environment. The power of the internet allowed the video to touch almost three billion people. Once this effect has been achieved, further growth opportunities are almost endless in both unline and brick-and-mortar settings. The Baby Shark YouTube video becomes a meme<sup>214</sup> that can then be propagated coline in the form of further videos, games, apps, and e-reader books. It also permits the firm to create a range of tangible offerings, such as dothing and toys, that can be marketed both coline and in brick-and-mortar stores, as well as producing or franchising live entertainment in theatres, for which tickets can be subliced.

#### Key Takeawaya

Understand how things go viral in coline environments. Of the millions of posts every day on social media, only a handful garner more than a million responses. Great content is not enough on its own, although this is a prerequisite. First, this content must truch at least one of the basic human emotions, such as anger, sadness, diegast, or in the case of the Baby Shark video, both joy and fear.<sup>215</sup> Second, the social media message always needs an accelerant in order to diffuse rapidly, and this usually comes in the form of broadcast media. This can be likened to starting a fire: making a fire requires fuel, but getting it going strongly usually requires an accelerant. In the Baby Shark case, the really cute and well-produced content supplied the fuel. While the company is not forthcoming on this, behind the scenes was almost certainly a well-oiled publicity machine spreading the news about the video to television channels and other mass media to act as an accelerant.

<sup>&</sup>lt;mark>™ Retrieved Sense <u>http://www.bloo.inglumencil-a.v.d/porial-Sectures/Aitherpails-beby-alante-www.antersit/7876788</u>Accumulan. July 10, 2019.</mark>

<sup>&</sup>lt;sup>20</sup> Retained Some https://www.abc.com/2018/09/06/http://baik.com/og.gobiliking.abcik.com-<u>on-wazen-of-sial-mog</u>hted. Accessed on July 10, 2019.

<sup>&</sup>lt;sup>200</sup> A means in an image, witho, pince of text, str., typically humanous in nature, that is capied and queued repidly by interast cases, after with elight variations. (Claim) lingüich Dictionary)

<sup>🚥</sup> Elman, Ruil. 1982. 'An argument for bair continue.' Capation & Bonton G. 8-4:169-201.

Understand the benefit of "platform" strategies.<sup>236</sup> In a very real sense Baby Shark provides a platform from which Pinkfung can build both a business for itself and for its collaborators. This has many of the characteristics associated with both major and minor platform success staries, and suggests ways in which an original simple idea can be used. as the platform to grow a successful business in a multitude of ways. At a very large level, for example, Disney has used simple, formulaic animated movies, mustly based on falk. tales (e.g. Snow White, Cinderella, Aladdin) as platforms to sell a bost of other offerings in addition to the original. These have included games, toys, and clothing. At a much smaller level, Dave Carroll, a Canadian musician, recorded a song called "United Breaks Guitars" and placed the video on YouTube as a form of protest when United Airlines indeed brake his expensive guitar on a flight and refused to compensate him. The "fuel" - the video was excellent, funny, and entertaining. It was also helped by an accelerant: the story was picked up by all the major news media, which further accelerated the number of YouTube downloads (19 million by June 2019).<sup>237</sup> Carroll was obviously able to monetize the video downloads on YouTube. More importantly, however, he also used it as a platform to sell a book about the incident; to act as a spokesperson for Taylor guitars, travel consultants, and service training companies; to sell a range of merchandise such as T-shirts and moga; and to give talks on service quality and act as a consultant and motivational speaker for many large companies.<sup>200</sup>

Baby Shark has afforded Pinkforg a platform from which it can build a very substantial business. The original video has enabled the company to expand into publishing, live performances, toys, and a whole range of other offerings.

- Understand the importance of stickiness, namely, designing messages, especially online ones, to be memorable so that they can create change and spur people to action. This does not only apply to markets of young consumers; it applies to customers of all ages.
- Understand the power of alliances. Pinkfung has not attempted to monetize everything concerning Baby Shazk for itself. While this may have been an attractive proposition, the company does not have unlimited resources, and instead, has sought partners all over the world, who serve a variety of different markets, and have different skills and resources. For Canadian firms desirous of entering the Korean market (and indeed others), this means that finding suitable partners with whom to form alliances is important and potentially rewarding. Firms could either market their own content through a partner like Finkforg, or align with Finkforg to represent it in either a bread or specific manner in the home country.
- Be culturally sensitive. Pinking has made sure to be culturally sensitive in selling its content coline in different countries. While simple kids' videos such as Beby Shark might seem innocums, it is worth ensuring that whatever is placed online does not offend members of other cultures.

<sup>&</sup>lt;sup>20</sup> See <u>https://www.achinesy.com/indows.forctions/ilgitel.achinesy/or-indgite/ibe-right-ilgitel.gittines-stology</u> Accessed on. July 10, 2008

<sup>&</sup>lt;sup>20</sup> Retained from <u>https://www.youtube.com/with3v-511SolaDyum</u>Account on July1D, 2019.

<sup>&</sup>lt;sup>20</sup> See Deighten, John. 2019. United Brack Gatter, Hervard Bastone School Care 9-530-057, Boston, MA: Harvard Basiane School Publishing.

- Be wary of intellectual property issues. The Pinkking Baby Shark case raises important
  issues regarding intellectual property. First there is the issue of content that might be
  viewed in some countries as being in the public domain. For example, an old folk song
  whose composer might out even be identified, or for which the content has long expired.
  Second there is the issue of disputing an intellectual property issue in a jurisdiction
  outside of the home country.
- Understand the power and opportunities that conducting natural coline experiments
  can provide. Producing a simple video such as Baby Shark is relatively inexpensive, and
  broadcasting it initially is essentially free. While not all videos will go viral or achieve the
  apectacular online success of the Baby Shark video, the odds of success increase in relation
  to the number of attempts to gain public attention. While the bit rate on successes might
  be low, a success even a tenth the magnitude of Baby Shark can result in major payoffs.

## **APPENDIX**

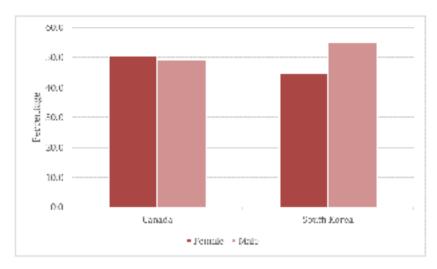
### Digital Technology in South Korea and Canada - A Comparison of Digital Device Ownership, Digital Media Consumption, and Digital Behaviour

### 1.0 Sample Panel Introduction

This data was professionally collected by a large market research organization as part of their annual research program. The sample panel includes 1,001 individuals from Canada and 500 individuals from South Koree. Both the Canadian and South Korean sample aimed to be as representative as possible.

### 2.0 Sample Panel Statistics

The Canadian sample is balanced in terms of gender, with 49.3% men and 50.7% women (see Figure 2.1). The South Korean sample had slightly fewer women with 45% and slightly more men with 55%.





The average age of the sample was older in Canada, at 42.9 years of age, then in South Koren at 39.1 (see Figure 2.2). The Canadian sample was evenly distributed around the average age, but the South Korean sample was younger, with 7.6% of the sample being above 55, compared to 20.6% in the Canadian sample.

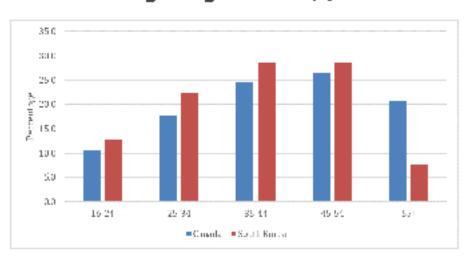


Fig. 2.2: Age distribution (%)

In terms of education completed, the South Korean sample was more educated, with 75.2% graduating university, versus only 41.0% in Canada (see Figure 2.3). Similarly, only 2.6% of the South Korean sample did not complete high school, compared to 6.1% in the Canadian sample.

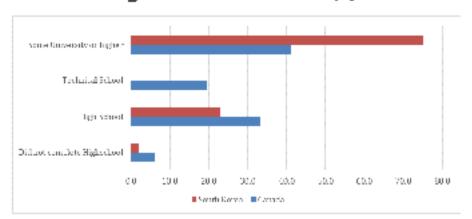
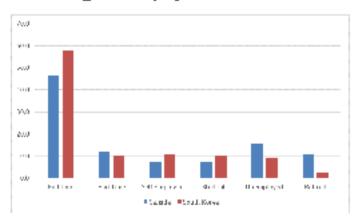


Fig. 2.3: Education distribution (%)

In terms of employment status, the largest group of individuals were employed fall time, with S8.0% in the South Korean sample and 46.6% in the Canadian sample (see Figure 2.4). Only 8.8% of the South Korean sample reported being unamployed, compared to 15.7% of the Canadian sample. In line with the Canadian sample being slightly older, the Canadian sample included 11.0% of retired participants versus only 2.4% in the South Korean sample.



Rg. 2.4: Employment status (%)

In terms of marital status, must people in both countries were married, with 59.2% in the South Korean sample and 50.1% in the Canadian sample. Only 1.0% of the South Korean sample reported living as married, while this designation was more common, 17.7%, in the Canadian sample. Many respondents in both countries stated they were single, with 36.0% in South Korea and 24.3% in Canada.

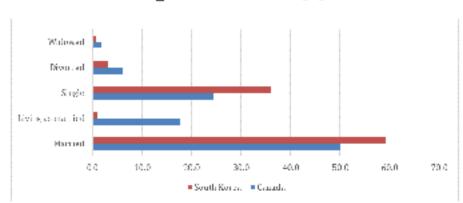
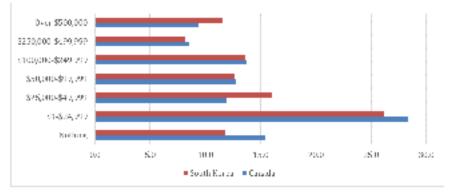


Fig. 2.5: Marital status (%)

In terms of household investable assets, South Korean respondents on average reported that they hold more than individuals in the Canadian sample. Some individuals (11.8%) in the South Korean sample reported having an household investable assets, compared to 15.4% in the Canadian sample (see Figure 2.6).



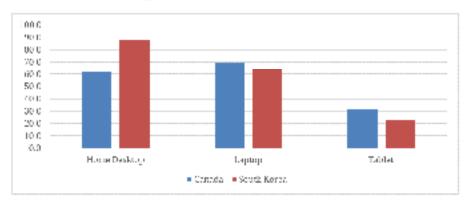


### 3.0 Digital Device Ownership

Before investigating the extent to which digital technology has penetrated the daily lives of individuals in South Kures and Canada, it is important to assess their access to or ownership of basic digital technology.

Most individuals in both countries seemed to have access to at least one personal computer at home, with some having access to more than one computing device (see Figure 3.1). The South Korean sample reported having access to desktops (87.6%), laptops (64.0%), and tablet computers (22.2%). The South Korean sample reported owning more (87.6%) home desktops than the Canadian sample (61.6%).

Fig. 3.1: Own a computer (%)



The picture changes slightly when examining mabile phane ownership (see Figure 3.2). The South Karena sample reported owning more other smartphones (62.4%), compared to 34.9% of the Canadian sample. With the Canadian sample, 23.6% reported owning an iPhone, while only 13.2% of the South Korean sample reported owning an iPhone.

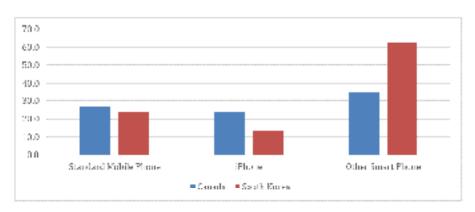


Fig. 3.2: Own a mobile phone (%)

In terms of home electronic devices, the Canadian sample reported higher percentages of ownership of DVD players, e-readers, and game consoles (see Figure 3.3). Smart TVs are relatively more popular with the South Korean sample (33.2%) than the Canadian sample (11.1%).

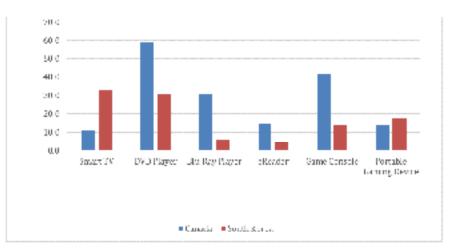


Fig. 3.3: Home electronics devices ownership (%)

In short, although there are some differences in device comership, digital technologies are pervasive in both South Koren and Canada, with most individuals reporting that they own digital devices.

### Digital Media Consumption

Media consumption has been changing with the widespread adoption of the internet and associated web and networking technologies. First, individuals reported their overall internet usage, then quastions drilled down to understand how these individuals consume media both in offline and coline contexts. Finally, the survey explored the extent to which they used social media and the reasons for that use.

As expected, internet usage was pervasive among individual in both countries (see Figure 4.1). Of the Canadian sample, 94.5% reported using the internet at least every day or almost every day. This was echoed by the South Kurean sample, where 93.4% reported using the internet at least every day or almost every day.

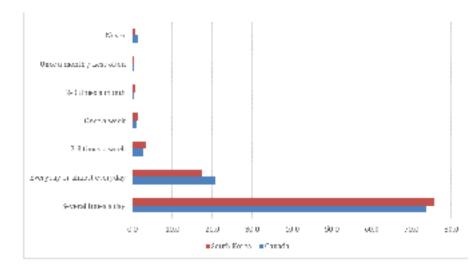


Fig. 4.1: Internet use (%)

Television (TV) habits have been largely offline in both the Canadian (77.3%) and South Korean (75.2%) samples, with reports that individuals watch conventional TV at least mice a day or almost every day. This contrasts with online TV use in both samples, with South Korea (18.8%) and Canada (14.9%) watching every day or almost every day (see Figures 4.2 and 4.3). Conventional TV seems widely adopted in both countries, with only a relatively small percentage in each country reporting they do not watch it (South Korea: 3.2%; Canada: 4.9%). Furthermore, the spreed of coline TV media has been more pervasive in South Korea among the sample, with only 14.8% reporting they never use online TV. This is contrasted by the Canadian sample, in which 44.8% reported never using coline TV.

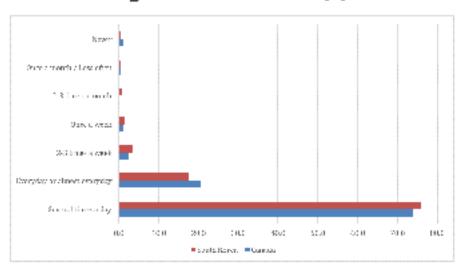
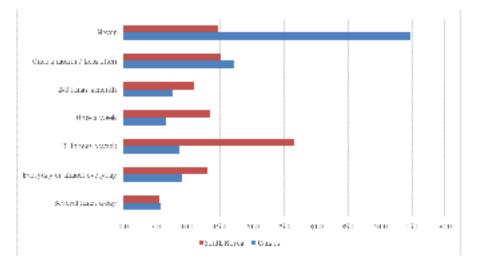


Fig. 4.2: Conventional TV use (%)





In terms of how people access news, South Korean individuals seemed to rely more on digital (74.0%) newspapers at least once a day or almost every day than print (27.8%) (see Figures 4.4 and 4.5). However, the Canadian sample reported much smaller percentages of relying at least once a day on digital (33.1%) newspapers, and similarly with print (23.5%).

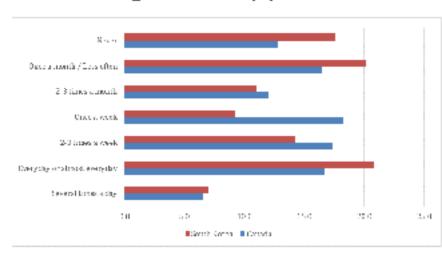


Fig. 4.4: Print newspaper use (%)

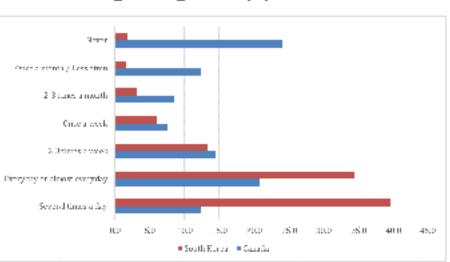
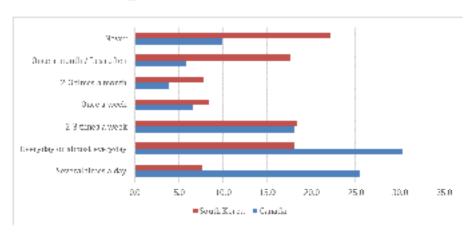


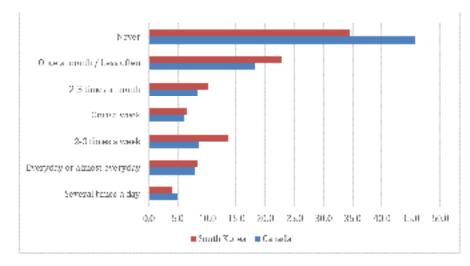
Fig. 4.5: Digital newspaper use (%)

Whereas newspapers were not as widely used in Canada compared to South Korea in the study, SS.8% of the Canadian sample used conventional radio, compared to only 25.6% of the South Korean sample (see Figures 4.6 and 4.7). However, this pattern does not carry over to digital radio media, as many individuals in both countries report not using or rarely using radio on the internet.

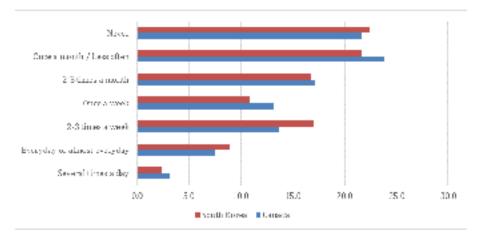






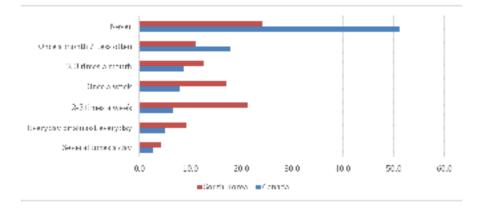


Canadians reported similar usage of megazines in print formats compared to South Koreans (see Figure 4.8). Digital megazines were especially unpopular among the Canadian sample, with 51.1% reporting never using the medium, whereas only 24.2% of the South Korean sample responded the same way (see Figure 4.9).

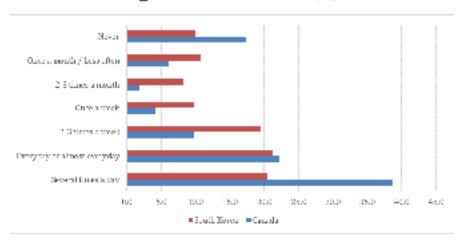








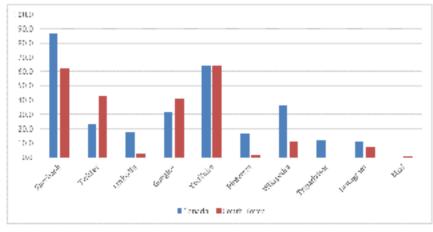
Canadians reported using social media sites more frequently than South Koreans, with over 60.9% of Canadian individuals in Canada using these services at least once a day or almost every day, versus 41.6% in South Korea (see Figure 4.10).





Some platforms were popular with individuals in both countries, such as Facebook and YouTube, but others were more popular with South Koreans, such as Twitter (see Figure 4.11). LinkedIn was more popular with Canadian social media users (18.1%) then South Koreans (2.8%).

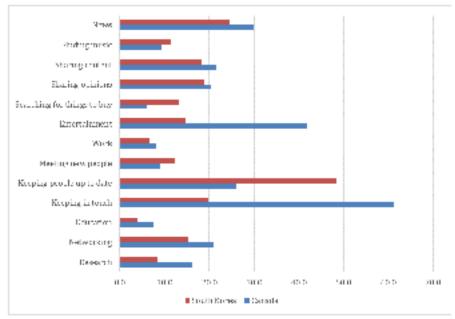




\* Inputting only where one was also of 9% in at least one country.

Social media users in the South Korean sample reported a narrow range of reasons for using social media sites, such as keeping people up to date (48.5%) and news (24.5%) (see Figure 4.12). However, individuals in the Canadian sample reported using social media for keeping in truth (61.3%), entertainment (42.0%), news (29.9%), sharing contant (21.6%), networking (21.1%), and sharing opinions (20.5%).





### 5.0 Digital Attitudes and Behaviour

Digital technology has changed the way individuals live their lives in both South Koren and Canada. First, this report examines attitudes toward technology, including attitudes toward privacy in general, surveillance programs, and personal information collection and control. Then, the report digs deeper into the topic and asks how individuals feel about their privacy when there is a measurable benefit to the provision of their personal information: personalization. Finally, the report explores how these attitudes are seen via reported behaviour regarding online and mobile protection measures.

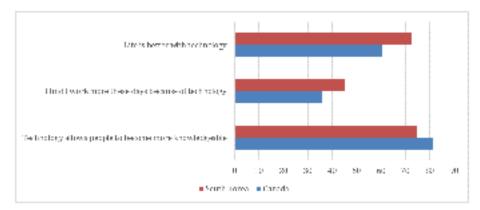


Fig. 5.1: Attitudes toward technology (% agree with statements)

South Koreans were generally more positive about technology in their lives than Canadians (see Figure 5.1). Specifically, 72.6% of South Koreans felt that life was better with technology, compared to only 60.3% of Canadians surveyed. Furthermore, 45.2% of South Korean and 35.6% of Canadians studied falt that they work more today due to technology. Finally, a majority of participants in both countries – South Korea: 74.6% and Canada: 81.2% – agreed that technology facilitates the exchange of information and that they felt more knowledgeable with technology.

Surveyed individuals in both countries falt that technology was part of their daily lives (see Figure 5.2). A majority of individuals in both countries felt the inshility to just relax or "switch off" due to digital technologies' impact on their life (South Korea: 61.8% and Canada: 54.8). South Koreans reported more interactions with technology than Canadians in terms of their conversations being coline (South Korea: 50.4% and Canada: 33.1%) and koking at screens (South Korea: 56.2% and Canada: 63.3%). Furthermore, 66.6% of South Koreans claimed that the internet is vital to their daily lives, compared to 59.1% of Canadian individuals.

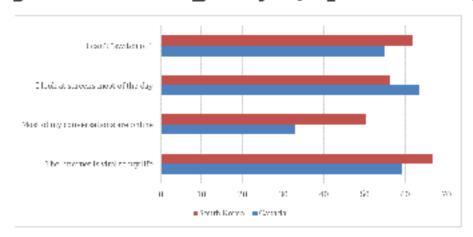
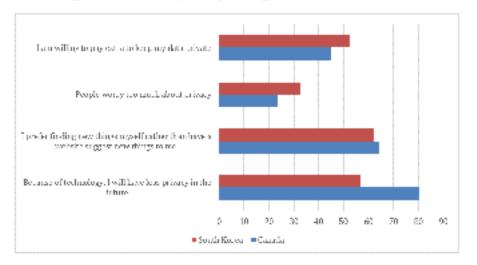


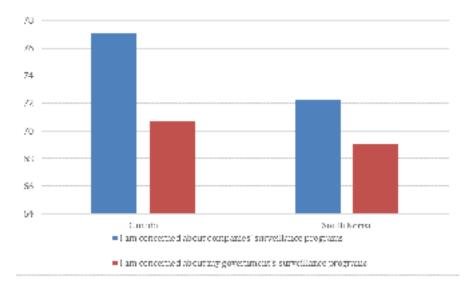
Fig. 5.2: Effects of technology on daily life (% agree with statements)



### Fig. 5.3: General privacy (% agree with statements)

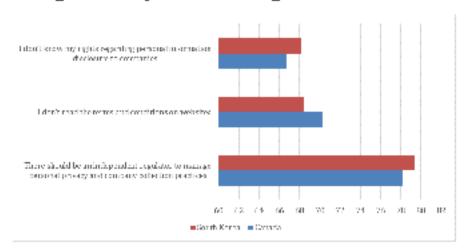
Turning new to attitudes specifically toward privacy, attitudes are similar for the most part (see Figure 5.3). There was general agreement in both South Korea (S7.0%) and Canada (80.2%) that in the future advances in digital technology would result in less privacy. Moreover, surveyed individuals feit the same in South Korea (62.0%) and Canada (64.3%) about discovering new things: they would rather discover new things themselves than have a website suggest new things based on their personal information. However, 32.6% of South Koreans through that people worried to much about their personal privacy, compared to only 23.4% of Canadians. Furthermore, slightly more South Koreans (52.4%) would pay more for enhanced security features than the 45.1% of Canadians who would do the same.

On the other side of the personal information privacy delate is the government and corporate surveillance programs that obtain or acquire personal information from individuals. Figure 5.4 reports the stated concern for these programs. In Canada, many individuals falt concern for both kinds of surveillance, but corporation surveillance programs evidenced slightly more concern (77.1%) compared to government surveillance programs (70.7%). South Koreans felt similar concern for corporate (72.2%) and government (69.0%) surveillance programs as Canadians.



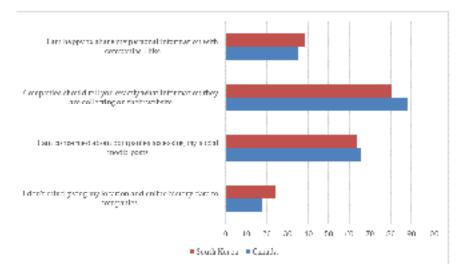
### Fig. 5.4: Concern about surveillance programs (% agree with statements)

Surveyed individuals in both countries reported similar agreement regarding the extent to which they are sware of their privacy rights under the law or perform certain privacy protection behaviours (see Figure 5.5). There was similar sentiment in both South Koreans (68.2%) and Canadians (66.8%) that they felt poorly equipped and prepared to deal with information disclosure requests from companies. However, a majority of people in both South Korea (68.4%) and Canada (76.2%) reported not performing simple information privacy protection behaviours, such as reading the terms and conditions on websites. Moreover, the majority of South Koreans (79.4%) and Canadians (78.2%) felt that there needs to be an independent regulator that manages personal information privacy and governs the actions of companies seeking to collect this personal information from consumers.









Looking closer at the personal information collection practices of corporations, individuals in both countries are concerned and seek transparency with these practices (see Figure 5.6). There were 38.4% of South Koreans reporting being happy to share personal information with companies they like, compared to 35.4% of Canadians who agreed. On transparency of personal information collection practices, the great majority of South Koreans (80.2%) and Canadians (88.4%) thought that companies abould be clearer about the sourt information being collected by corporate websites. Similarly, approximately two-thirds of South Koreans (63.8%) and Canadians (65.9%) were concerned that corporations would access their social media posts. In terms of controlling the personal information after collection, both countries have similar reactions in the quastions (see Figure 5.7). South Koreans (66.6%) and Canadians (75.5%) both reported that they are unsure of the information companies hold about them. Most South Koreans (77.2%) and Canadians (83.3%) feel that they should know the names of the third-party organizations that bought their personal information. Furthermore, 56.6% of South Koreans and 75.7% of Canadians would like access in the data that companies hold on them so they can make better decisions.

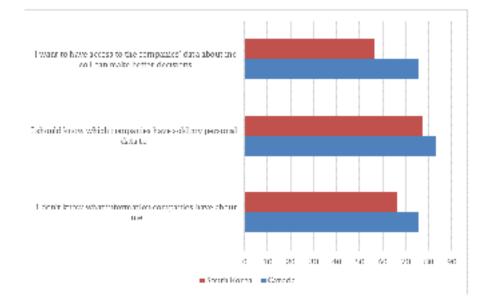
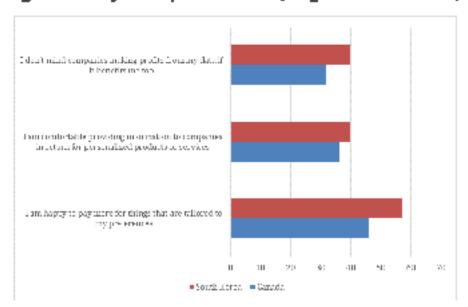


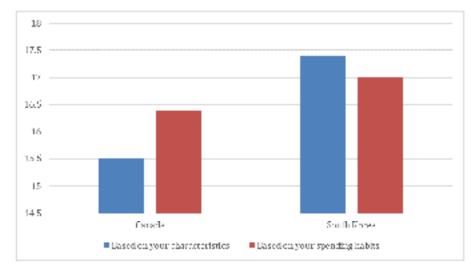
Fig. 5.7: Controlling personal information online (% agree with statements)

In light of these potential benefits, the next set of questions relate to how much personalization is wanted and at what privacy cost (see Figure 5.8). Overall, South Koreans saw similar benefits to personalization compared to Canadians in the study. For instance, 33.8% of South Koreans reported being happy to share personal information in return for personalized services, compared to 36.2% of Canadians. Moreover, 44.0% of these South Koreans did not have a problem with companies making profits using their personal information as king as they benefited in some way versus 31.7% of surveyed Canadians. Also, 57.4% of South Koreans and 46.0% of Canadians would be willing to pay extra for products and services that are tailored to their preferences.





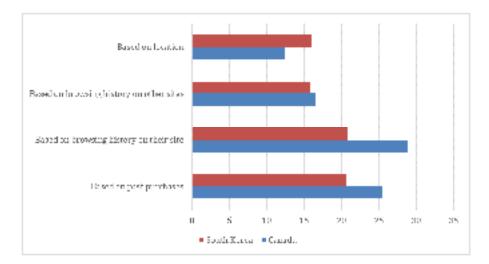
Digging further into what kind of companies the respondents would like to receive personalized services and products from, we first look at banks, then websites in general, and then specifically social media companies (see Figure 5.9). With banks, South Koreans are slightly more willing to receive personalized banking services based on their characteristics (17.4%) or their spending babits (17.0%) than Canadians (15.5% based on characteristics and 16.4% on spending babits).





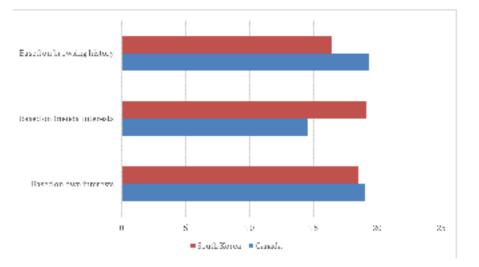
In terms of websites in general, again South Koreans were more comfortable receiving personalized suggestions based on location (16.0%) versus only 12.5% of Canadians. However, South Koreans were less confirmable receiving personalized suggestions based on browsing history of other sites (15.8%) versus 16.6% of Canadians, and browsing history of that site (20.8%) versus 28.9% of Canadians (see Figure 5.10). Moreover, 20.6% of surveyed South Koreans did not mind personalized suggestions where consumers had past purchases on the website, compared to 25.5% of Canadians.

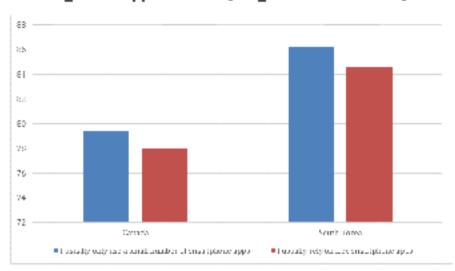
### Fig. 5.10: Personalized suggestions from a website (% agree with the practice)



For social media companies, South Koreans and Canadians seemed to be similarly sensitive to personalized suggestions from websites (see Figure 5.11). Only 16.4% of South Koreans and 19.4% of Canadians were comfortable having personalized suggestions based on their personal browsing history. Similarly, 19.1% of Canadians, versus 18.5% of South Koreans, were comfortable receiving personalized suggestions from a social modia company based on their own personal interests. When asked how they felt if these personalized suggestions were based on friends' interests, 19.2% of South Koreans and 14.5% of Canadians agreed with the practice.

Fig. 5.11: Personalized suggestions from a social media company (% agree with the practice).







Finally, regarding app behaviour, surveyed individuals in both countries reported similar behaviours (see Figure 5.12). While both countries reported relying on a small number of apps (South Kores: 86.2%; Canada: 79.4%), these apps are generally free (South Kores: 84.6%; Canada: 78.0%), and often have user agreements that require the disclosure of personal information or being allowed to track personal information such as location.

# **ABOUT THE AUTHORS**



**Dr. Layland Pitt** is the Dennis F. Coher KMBA Ahumni Professor of Business Administration at the Beedle School of Business, Simon Freser University, Vancouver, BC, Canada, where he teaches marketing in MBA and doctoral programs. His work has appeared in journals such as Journal of the Academy of Marketing Science, Information Systems Research, Journal of Advertising, and MIS Quarterly. He is currently associate editor of Business Hortzens and Journal of Advertising Research.



**There a Erikanen** is a doctoral student in industrial marketing at the Lalet University of Technology in Lules, Sweden, where she researches entrepreneurship and technology. Her work has been published in journals such as Bariner Herizow and the Journal of Strategic Marketing.



**Existin Mathemen** is a doctoral student in industrial marketing at the Lulek University of Technology in Lulek, Sweden. She bolds a bachelor's degree in sociology from McGill University and an MBA from the University of Alberta. Her work has been published in the Journal of Wise Research.



Dr. Kick Planguer is Associate Professor of Marketing at the King's Business School, King's College, London, UK, where he teaches and researches digital marketing, His undergraduate education in economics was at Western University, and his PhD in marketing was evented by Simon Preser University. His work has been published in journals such as the Journal of Business Research, Journal of Strategic Information Systems, and Academy of Marketing Science Review.



**Dr. Kernen Rejensen** is Assistant Professor of Marketing at the Odetta School of Business, University of Windsor, Ontario, where she teaches marketing and consumer behaviour. Her PhD in marketing was earned at the Beedie School of Business, Simon Fraser University. Her work has been accepted for publication in journals including Journal of Advertising Research, Journal of Advertising, Technovation, and MIS Quarterly Executive.



ASIA INCIPIC POURDATIÓN OF CARLEA

PONEXTION ASIE PACIFIQUE DU CANADA

# **Guidebook for Doing Business** in the Asia Pacific:

A Resource for Indigenous Businesses

September 2019



### Using this Guidebook

### What Will it Provide? Who is it For?

This guidebook is intended to be a resource for indigenous businesses interested in doing business with the Asia Pacific region, specifically importing and exparting goods and services and attracting investment. Given the diversity of indigeness communities in Canada (Piest Nations, Métis, Insit) and in type, size and service of indigenous businesses in Canada, this guidebook focuses on general considerations and resources rather than the details of how a particular business or community should or should not engage, although many of the resources introduced in this guidebook con succet in annearing such inquiries.

Indigenous entropsensors, indigenous owned small, medium, and large enterprises, and economic development corporations will find useful information bere, whether they are non-exporten in explosionry stages, or more experienced international physics looking to expand or attract investment. The goldehunk – or parts of it – may be shared with chief and council, your board of discrizes, and/or managers to present the case for engaging with Asia Pacific businesses. The goldehunk can help you prepare for visits from Asia Pacific stakeholders or for your Asia Pacific in-market endersours. There are introductions to topics the exporting 101, networking, financing, and cross-cultural business, along with links to external resources the websites, tools, and goldes that can provide deeper dives into further understanding the opportunities, challenges and approaches to Asia Pacific business engagement.

### Navigating the Guidebook

The guidebook can be read as a whole document. Guline, you can use the navigation pane on the left to jump to the relevant section(s) for your interests and needs. You also can downland PDFs of each section.

Section 1: introduction provides an overview of the guidebook and presents the case for why doing business in the Asia Pacific might be a viable and fraitful option for your community to meet its such), cultural and economic goals. Section 2: Background, Best Practices and Winning Strategies for Indigenous Exporters provides a narrative introduction to the opportunities, challenges, and approaches to doing business with the Asia Pacific. Section 3: Tips, Tactics, and Resources for Success provides more detailed information on specific topics and lists of actionable resources forused on different topics of interest, like industry information or cultural guides.

Throughout, the guidebook will help nonver the following questions for Asia-interested Indigenous businesses, economic development corporations, and communities, to help grow their presence in the Asia Pacific

- What government resource are there in Canada and alread?
- What non-government resources and experimentions are and able?
- What indigenous resources are available for aiding in Aria Pacific expansion?
- Where are the obstacles and opportunities for potential Asim investment, business, or trade?

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### **Executive Summary**

The Aria Parific Roundation of Canada presents the Galdalook for Daing Business in the Asia Parific: A Baseana for Indigeness Reviewes. This measure aims to help catalyze Indigeness business engagement with the Asia Parific region.

The Aris Partific is a dynamic region that accounts for the largest parties of the global population and global indigenous population, and will soon account for most of the global eronemy, middle class, and ultra-wealthy people. The region has a large interest in indigeneity, not only among their own indigenous populations, which are becoming more prominent, but also among other countries like Canada. Historical similarities including colonialist patterns and cultural similarities between the Asia Pacific and Indigenous Canadians can provide the grounds for deep engagement. A long bistory of indigenous glabalism and recent institutional clumges have made it increasingly opportune for indigenous bustnesses in Canada to enter the global economy with specific attention to the Asia Pacific. The resources and economic development gaals that indigenous peoples have and the diverse industries they operate in – such as energy, natural resources, agriculture, fish and senford, the arts, tourism, and digital/technology economies – are complimentary with increasing demand from the Asia Pacific region.

Indigenous peoples are the fastest-growing demographic in Canada and have significant economic potential. There were 55,255 First Nations, Métis and host -owned businesses in Canada in 2016 special across every province and territory in a wide variety of sectors; this is an increase from 43,000 in 2011 and from 37,445 in 2006. According to one survey, these businesses expant at a greater rate than the average Canadian business, and for each dallar lent under the Aboriginal Business Financing Program, C\$3.60 is added to the Canadian GDR.

Despite these positive indicators, going ginhal can be a challenge for Indigenous businesses and communities, especially when acting independently. Obstacles include capacity, having the experience to properly plan and prepare, according formating and support programs, understanding and engaging with other cultures, and utilizing resources for business purposes that are in line with community goals. Indigenous mations have many assets, but they can also be challenging to utilize and make doing business difficult. For example, the organizational attractors of nations can make it quicker and earlier to do some projects, and stall others. Overcaning the many obstacles and challenges is important, as connecting to the global economy is aftern seen as the next step to indigenous economic development, which likely is a key to reconciliation.

The galdebook cavers some general strategic considerations. For example, co-operation among holigenous businesses and nations to increase their communications abilities, represent their interests, build partnerships, and increase autonomy in the global economy may help overcame some of the mentioned challenges. Many holigenous businesses have deep experience in Canada and the United States, which is a partitive predictor of success oversess encorg other factors tike having a business plan. For a successful conspartitive predictor of success oversess encorg other factors tike having a business plan. For a successful conspartitic partnership, you will have to learn the formal and cultural aspects of doing business in Asia, just as your partners will have to when in Canada. The importance of cultural competency cannot be overstated. There are many seconces and tips to help you, but the outlook on going global about be one of coutions optimion. Different business atmizging may work differently for different businesses and nations, bringing to light particles and negatives that may be difficult to forease. And just as many studies have taught or, like the insightful *Harword Project on American Indian Harmoni Dambyment*, access to all manner of seconces and having a plan does not gammite auccess. Soccess brings on internal factors such as the throughtful leadership of an entryprise or making hard decisions for the long-term that run counter to the immediate struggies of nations, his spending money on international travel or apending large ancents of thus on proposals. This guidebook will not discuss how those decisions should be made or how difficult it will be. Nor is it a how-to goide for every possible configuration of potential Asia engagement.

This guidebook details the namy framcial, logistical, planning, networking, and indigenous business supports for doing business and strategizing with the Asia Pacific. It shows which federal and provincial programs and affires, business associations, and indigenous organizations might be able to help minimize risks and maximize successful engagement in Asia Pacific numbers, and can help address some of the obstacles and challenges mentioned. By capitalizing on their resources, cultural and historical similarities, and overlapping gasis, Indigenous businesses can be leaders in engagement and selving opportunities in the Asia Pacific on their own terms.

# Section 1:

Introduction

### Why the Asia Pacific?

There are many reasons that indigenous people in Canada might be interested in developing or increasing engagement with the Asia Pacific region. Whatever your strategic canademations, the <u>Asia Pacific region</u> will come to play an increasingly important role in the <u>inform</u>.

### Asia Pecific Is Diverse and Its Population Is Growing

There are assumd 50 economies in the Asia Pacific that account for more than half of the world's population and a third of the world's longuages.

There is a mix of developed (e.g. Japan, Aastmila) and developing and emerging economies (e.g. India). Demographically, there are economies that are aging (e.g. Hong Kong, Japan, Singapure, South Korea, Tahsan), these with youth bulges (e.g. India, Indonesia, Malaysia, Pakistan, the Philippines), and those somewhere in between (e.g. Chim).

Like elsewhere in the world, urbanization is on the rise and the region is home to the world's largest and fasterst-growing cities; over half of the cities with a population of five utilion people or more are in the Asia Pacific.

The Asia Pacific is also home to an estimated 70% of the <u>global indigenous population</u> of approximately 370, solition, many of whom are interested in or are already actively participating in the global economy.



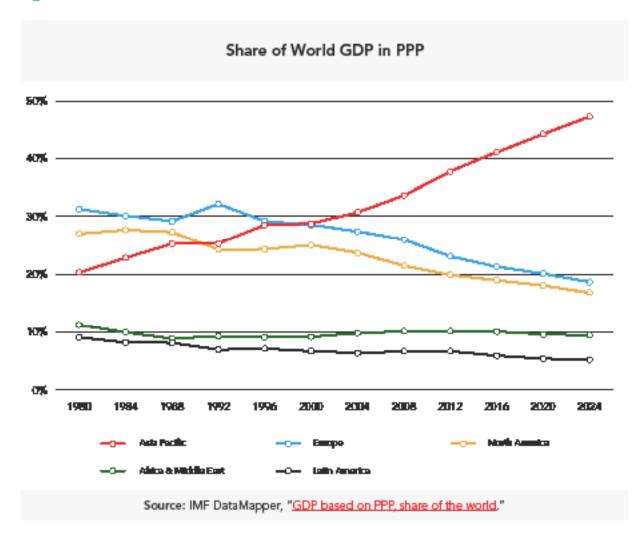
#### Figure 1.

Asia Pacific Foundation of Canada 1-8

### Asia Pacific Fuels the Global Economy

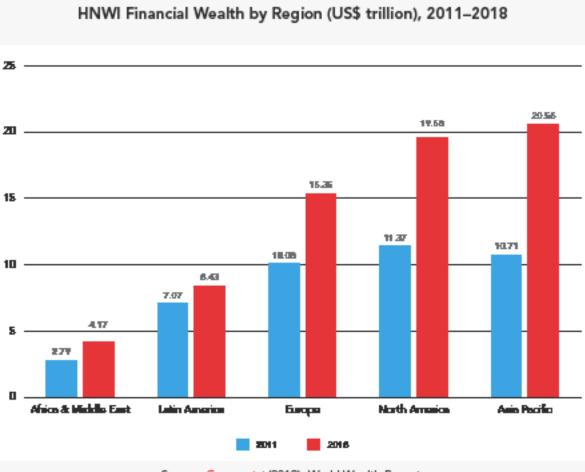
### The region continues to be the units source of <mark>global economic growth</mark>; it already accounts for the world's largest alare of gross domestic product (GDP) in current prices and adjusted by purchasing power parity (PPP).

#### Figure 2.



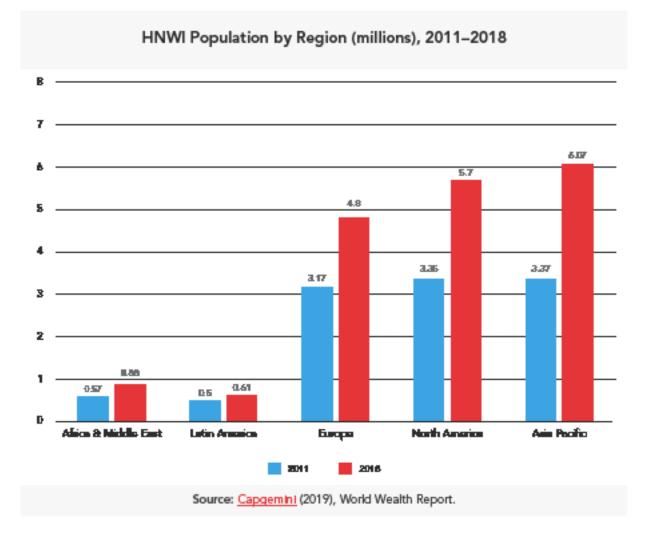
The region will account for half of the world's middle class by 2020 and already has the largest partien of the world's nine-wealthy people or so-called high net worth individuals (HNWI) both in terms of population and wealth.





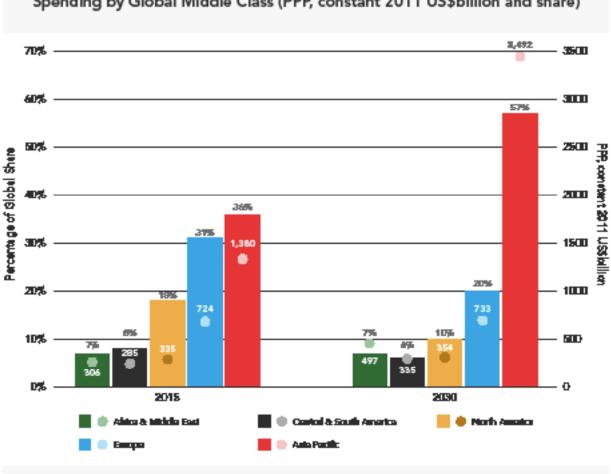






Asia Pacific adds millions of new middle-class consumers each year, who are taking demand for energy and clasm energy products, agricultural and food products, services, and are increasingly interested in tourism and mitural products from Canada's indigenous peoples.

Figure 5.



Spending by Global Middle Class (PPP, constant 2011 US\$billion and share)

Source: Hoimi Kharas (2017), The Unprecedented Expansion of the Global Middle Class. Brookings Institute.

The economies and humaness in the region have demonstrated interest in Canadian and Indigenous products, resources, and services, and they often view Considen products and services as safe, reliable, and of high quality.

Less is known on the current engagement of Asia Pacific stakeholders with Indigenous businesses and communities in Canada, but anecdotal accounts from account the country suggest significant and growing interest in Indigeness Canada from the Asia Pacific.

While all this prints a may picture of opportunities in the Asia Pacific, business suggement can be far from easy or storightforward. Many of the Asia Parific businesses that are engaged internationally are large or even massive conglementation or state-owned enterprises, while most indigenous businesses in Canada are univer to small in size. The Asia Pacific is the most diverse and dynamic region in the world, many of the markets are complex, filled with competitors from anound the world, and difficult even for established Canadian comparises in markets.

That being so, wanting to address some of the increasing needs, desires, and opportunities arising from the Asia Pacific can be one means for ready and well-prepared indigeneus businesses to meet their community, social, and economic goals, and <u>usine growth in the region.</u>

# Section 2:

Background, Best Practices, and Winning Strategies for Indigenous Exporters

### Now is the Time for Indigenous Exporters

Intering the global economy on their own terms is a key factor to fature indigenous economic development, and the Asia Pacific region holds particular promise. Participating in the global economy can be done in a way that allows traditional lands, culture, history, and values to play a large rule. Globalization can allow indigenous cultural distinctiveness to survive and thrive by allowing direct mattering and political connections to international actors, in contrast to the common position that globalization reduces cultural diversity.<sup>1</sup> Indigenous peoples have a strong history of global trade, relations, and engagement, but changes to today's modern institutions, norms, and supports have made it easier for indigenous communities and businesses to conduct these activities. These changes include:

- The 1980 International Labour Organization Convention 160 (building off its predecessor Convention, 107 from 1957) alms to improve living conditions of huligenous peoples through recognition and respect for indigenous customs, institutions, and rights;
- The World Bank and regional development lumin such as the Asian Development Bank larre specific indigenous paikies and anfeguards to help faster respect of indigenous peoples and ensure their active and beneficial participation in projects that affect them;
- The 2007 United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) is supported by most of the world's countries and is the most comprehensive international instrument on Indigenous rights and standards;
- A myriad of murt meet in various jurisdictions have ruled in favour of indigenous rights, title, and dating;
- The Truth and Reconciliation Commission of Canada's <u>calls to action</u> that address education (62-65), professional development (57), and business (62), and
- A new focus in Canada on inclusive trade has required in changes to the United State-Mexico-Consta Agreement (USMCA, formerly NAFTA),<sup>2</sup> the June 2019 joint Constian Council for Abariginal Business (CCAB)-Global Affairs Canada (GAC) report and recommendations on Indigenous exporting, and a Constian government announcement of expended trade services for Indigenous business.

While much work needs to be done, three all speak to the long-term sostained global efforts by indigenous people for domestic and international emocule inclusion.

holigeness peoples are the fastest growing demographic in Canada and have significant economic potential – the Canadian Indigeness economy was worth an estimated C\$328 in 2015 and is growing. These were 55,255 First Nations, Métic and Insit -council businesses in Canada speed across every province and territory in a wide watery of sectors in 2016, up from 43,000 in 2011 and 37,445 in 2006.<sup>2</sup>

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<sup>\*</sup> Geométrik, D. 2003. The fatore of indigences values cultural subtitions in the face of accounts development. Returns, 25: 90.7-929.

<sup>&</sup>quot; In 1996". As even extinuither provide helps as holes are for example, folgoese burden its as slights to be day from

Crosse National Household, 2006, 2011, 2016.



Most recent calculations estimate that hullgenous from an both innovating and exporting at mize higher than the national average. With some coverts on sample size, a joint <u>Global Affairs Canada-CCAR survey</u> report found that while 11.8% of Canadian SMRs export, 24.4% of Aberiginal-owned businesses are exporting. Exporting goods or services matters for businesses because according to <u>Export Donalopment Canada</u> "comparies that export make 121% more money, grow faster, last langer, are better connected within supply chains, are more section to economic downtarns, and are more productive, competitive and inconstive." For each deliar tent under the <u>Aboriginal Business Francing Program</u>, a key nation-wide francial tool for Indigenous business, C\$3.60 is added to the Canadian GDR

Regardies of the reported high rate of exporten among hulfgeneon-owned basinesses, the fact menales that most do not export to international markets cutoide the United States. Among them that do export, 9.6% export only to the United States, 11.9% export to both US and international markets, and 2.9% export only to international markets cutoide the United States. While law is known on the parties of Indigeness basinesses and entrepreneum that are presently in or internated in Asia Pacific markets, means activities maging from mundiables on the topic to government and private sector trade missions and events show while moging serious internet in the region.\*

Going global cm be a challenge for indigenous businesses and communities, especially when acting independently. Obstacles include access to financing and support programs, understanding and engaging with other cultures, and utilizing resources for business purposes. The structure of indigenous nations on be an asset, but it can also make doing business difficult. Strategies may work differently for different business and nations and bring to light positives and negatives that may be difficult to foresee. And just as many studies have taught us, like the insightful Harward Project on American Indian Econards Development, access to all manner of resources and having a plan does not guarantee success. Success hinges on internal factors such as the thoughtful leadership of an enterprise, a lot of bard work over a sustained period of time, or making bard decisions for the long-term that may run counter to the immediate struggies of matimes, like spending money on international taurel or spending large matures of those and proposite.

<sup>a</sup> Horiz, Calmia, 2018, Rheling common general: Regaring Enligences Canadian youth with Asia, 179 Canada; <u>Shebal Albim Canada</u>, 2018, Indigences tools unindex to New Zashash and <u>1995</u>, 2019, Tao 2018 World Indigences Ranicas Review. Authors of a 2016 activity in the <u>Harvard Business Review</u> reported that in working with more than 100 global argumentions over decades, must responded too eagerly to trends like growing mildle classes and positive market indicators when entering new markets. Like these we see in the Asia Pacific. Many of these businesses stated that they almost did or didn't at all meet their performance objectives, which the authors attribute to not having their internal pieces in place. In other works, while engaging international numbers can be reserving, doing it successfully, especially in complex numbers in the Asia Pacific, sequires planning and complex numbers on the found on your potential for doing so can be found in Section 3, Number 2: Experting Proparations Checklet.

Co-operation among the minded indigenous businesses and nations to increase their communications abilities, represent their interests, build partnerships, and increase autonomy in the global economy may belp overcome sense of these challenges – some communities are already doing this for domestic real music, energy, and resource related ventures. By capitalizing on their resources, cultural and historical shufterities, and overlapping guils, indigenous businesses can be leaders in engagement and asking apportunities in the Asia Pacific.

## Business Support for Indigenous–Asia Pacific Engagement

This section details the government, nongovernment, and business supports for doing business and strategizing, with the Asia Pacific. It also highlights the consent efforts to work with indigenous peoples to enter the global economy on their own terms. Despite the many obstacles and challenges, connecting to the global economy is often asen as the next step to indigenous economic development, which itself is a key to remachinizion.

## **Government and Non-Governmental Organizational Support**



Diversification of indigenous business toward the Asia Pacific is an important and already growing component for fature economic growth. Indigenous peoples and governments are increasingly partnering to lead toxic missions from Canada, Australia, New Zealand, Taham, and other economies that are meting to promote and support the integration of their indigenous populations into the glabal economy. State governments are increasingly supportive, such as the Australian government, which provides **sportic programs and support** for glabal indigenous business and created relevant separts, golder, and a **free-year indigenous dratogy** in its

Department of Foreign Affrica and Toxie. The World Indigenous Business Forum, the International Inter-Tribul Toxie Organization, and other new-partit organizations are successfully spurring discussion and action on these topics on the world stage, including on more inclusive toxie agreements. Opportunities are arising to conduct business between Indigenous notions around the world. There are also an increasing number of opportunities to get <u>indigenous youth in Canada</u> thinking about and engaged with the Asia Pacific to foster needed computencies, global mindsets, and skills for their future and fature Asia Pacific engagement.

The <u>Canadian Trade Commissioner Service</u> (TCS) provides Canadian companies with free on-the-ground intelligence and practical advice on foreign markets to help potential and correct exparters make better, more thinkly, and more cost-effective decisions in order to achieve their goals abroad. As Canada's largest network of international trade professionals, the TCS has more than 1,000 trade commissioners located around the world. The TCS can help expansion:

- Parene and close more export deals;
- Develop market-entry strategies,
- Identify qualified business contacts;
- Resolve complex hadness problems; and
- Avoid delays and costly mistakes.

In addition, the TCS offers <u>funding programs</u> and support for companies and communities to help them expand their global barisons and grow their communities. The TCS also has a dedicated team that offers additional support for holigenous exporters, including trade infactors, events, and business delegations for indigenous companies to connect them with international opportunities. Further information on these articlities, as well as links to funding, resources, opportunities, and connections for indigenous exporters is available on the <u>indigenous insiness Export Support Program</u> web page. For additional indigenous international business questions or support, place contact the TCS. IndigenousBusinessWinternational.gc.co.

Doing business in Asia is not easy. Settincles and failures in business and trade delegations as a result of not being prepared are common. Some lessons learned are that even if you have familing, an opportunity, and even a physical presence, you may not be able to cell your product or service. You will need to ensure your business is faily prepared and adapted for the market, both internally and externally. It can be difficult to be that prepared and knowledgeble, and that is one reason why there is such a wide variety of resources dedicated to helping Canadian companies abroad, and why programming regularly changes. Toste commissioners, expart preparedings checklists, Canadian and Asian business mentaralities, and other tools can increase your understanding of markets in the Asia Pacific and increase your odds of success.

#### Business Support



In addition to these opportunities, there are also economic changes that increase indigenous opportunity. In today's global economy, companies are realizing that they must co-operate with communities where their conteners and employees live, and successful integration with the global economic system depends on local processes, where "economic structures, values, cultures, institutions and histories contribute profoundly to that success." Viewing communities as valued members of a system rather than viewing communities as something external to be dealt with is becoming the norm. For this reason, especially as a matter of economic self-interest, large

corporations are increasingly supporting community development in Indigenous communities. This means that Indigenous people can enter the global economy on their own terms, where traditional lands, bistory, culture, and values play a critical rule.<sup>4</sup> To do so will require identifying business opportunities and then gathering the meansures and developing the organizations and buman resources required to meet them.

#### Accessing Resources



While appartantities in the Aria Pacific for Indigenous businesses and entrepreneurs are graving, difficulties remain. One piece of the possile is identifying and accessing remains and program supports. There is a good indication that many holigenous businesses may be missing out on opportunities for support from a workety of indigenous and non-indigenous organizations, as well as government and nongovernment national, provincial and territorial programs and services. For example, according to a <u>CCAB survey</u>, only 4 in 10 Aboriginal horizons owners report having used a government program, and there was great workety (27) in the types of programs

reported being used. The most common programming accessed was related to form and grants to small, companies for financial support for employment-related activities. And how did owners find out about these government resources? The overwhelming majority cited word of mouth (43%) followed by internet seemb

Dicker, Bater, 1992. International production in a volatile explosiony exchanazate the followers of notional explosiony policies on the equital strategies of transmittenal corporations. Geolegens, 23(3): 203-215.

<sup>&</sup>quot; Anderson, Robert, et al. 2015. Indigenous land eights, anterpresentation, and scenaris, development in Counter Opting-to" to the global accounts Jacobal of World Jackson. 4D: 45-55.

(16%). Despite their track recard of success, hodgeneous businesses face challenges <u>accessing financing</u> and in other business functions. With that in mind, this guidebook can be used to help find the services and support needed for hodgeneous businesses to engage or increase engagement with the Asia Pacific.

And what were the means for not using a government resource? According to the CCAR, the top three were don't see a need or value in the programs (41%), were not more of them or they were hard to find (22%), and there was too much harenarracy involved (15%). While this galdebook neight not be able to fully mitigate these concerns, it can help above many programs' value to your particular endeavour, save you time finding them, and help tanget your approach to looking for support.

## Creating an Indigenous Business Strategy for the Asia Pacific

Regardless of the size or sector of your business, developing on Asia Pacific strategy will belp you find new ways of addressing the meets and aspirations of your business, marketing and selling your products or services, and/or attracting investment from the region. Only <u>3 in 10 Aboriginal businesses</u> in Canada have a business plan, largely due to not seeing a need or not having the sensations to develop one. This is despite business plans being integral to namy business functions, such as understanding king-term visibility and increasing the ability to mise capital, which almost <u>helf of indigenous businesses</u> straggle with. Business plans are especially important in *successfully* navigate international expansion. This section will describe some of the broad considerations that go into making a strategic plan for seeking and pursuing apportunities in international markets with a focus on the Asia Pacific – and will provide resources and able to develop sock plans.

There are three components to developing an Asia Pacific strategy: resources, industries, and institutions. Each of there is addressed below. For example, if you are loaking to sell a product or service to Asia, you need to consider what competitive advantage you can draw from your resources, what the competitive forces of your product or service are when looking at a particular country or market, and what institutions – such as regulations, trade agreements, and government offices – are relevant. The three components and relevant information are looked at in the following three sections.

## Resources

Assessing your resources will help your organization meet the aphations of your basiness or community and find and achieve a competitive advantage. Meetly, your resources should be valuable, more, and hard for others to imitate or implement. Indigenous resources have been and are increasingly sought by businesses and are marketable throughout the Asia Pacific region. This section will discuss indigenous resources that Asian economies may be interested in, including but not limited to land and culture, energy and natural resources, organizational structure, e-commerce, and agriculture and agri-food.

### Land and Culture



#### Your Resources

Outright exploitation of hard and culture and other indigenous sensations for economic gain is not fully compatible with the ganls and interests of indigenous communities. But some communities may find that such remains on he used to help meet long-term indigenous economic and social ganls, such as providing stable employment in the community and encouraging cultural practices timoigh activities like traviant in a particular area or selling set. Land can be developed for economic purposes by being lensed, used for production facilities, used for senevable energy production, travian, and in other ways. It is difficult to provide a concise overview of indigenous lands, as these are First Nations senerves, urban measures, Métic commonities, fault lands, indigenous majority communities, and different regulatory and other considerations for each. Different communities will have their own tiless about how to use the resources available to them. In addition, modern land claim agreements and other changes mean that the current situation will continue to change. Belefity, having remembly and management of land can be beneficial for the rescons mentioned, but some indigenous nations have laid difficulty utilizing their land for business development purposes. These challenges can be due to isolation, governance and organizational structures, regulatory embrancements, and the decision-making process involved, among others. Overcoming these challenges will be unique to each nation or business writter, and rely langely on internal factors, but it is not impossible. If the challenges are overcome or are small to begin with, land development may be one of the endert-to-access business options.

Indigenous culture is unique to each notice, making cultural products and experiences like art, beadwork, clothing, and local articities expectally valuable to people who are interested in purchasing or experiencing them. Over half a million transits came to Canada from China in 2017 alone, almost one-third of whom have participated in an indigenous experience, with even more interested in doing so. And there are similar interest rates across Asia Pacific countries. The indigenous transition sector is set to capture demand from Asia as the indigenous Tourism Asia Pacific countries. The indigenous transmission sector is set to capture demand from Asia as the indigenous Tourism Asia Pacific countries. The indigenous transmission of canada (ITAC) has set a grad of establishing 50 indigenous transmit companies that are expect ready by 2021 and supporting 200 such companies by 2024, and is providing funds of up to <u>CS10.000</u> per business to agar such growth. ITAC also has information, such as market information and hest practices, that may be useful.

#### Your Opportunities and Challenges

Viewing the Northern Lights, hunting, and other experiences that indigenous people are well positioned to provide are geining in popularity among Asian tourists. The <u>insit art global mariest</u> was worth C\$54M in 2015, which has been attributed in part to growing demand in Asia resulting from indigenous government promotion of Canadian culture in the area. Leveraging cultural products requires identifying one or more mariets that while indigenous cultural goods and services, and taking steps to ensure that there is <u>some form</u>, of authenticulture of the cultural goods or services so that they cannot be instated or to differentiate from those that are insuthentic. Section 3, Number 12: Dealing with Asian Governments mentions key points to consider regarding protecting your intellectual property and traditional knowledge.

There are some cultural and historical shufferibles between indigenous people in Canada and Indigenous and non-indigenous people in the Asia Pacific. There is a large amount of cultural diversity, a shared calorial history, and common gasis like emissionmentalism and self-determination. Rempitting and emissiong the similarities opens the door to a deepened sense of matual understanding and respect. For some accounts of this shared history, culture, and values, see Sociion 3, Number 16: Examples of Shared indigenous-Asian History, Culture, and Values. As explained by Gomd Chief Bolwerd John:

(1) China, culture is very big. It is a land of great culture, great cultures actually [.-] On our trips to China, when our regula and our masks and drams were incogint forward, the dynamics of the meeting changed domestically. It was culture meeting culture. Talking to each other on a cultural foundation about the long history and long traditions and roots of our respective cultures, we are able to talk on that level [.-] You are not talking about bottom lines, dollars, and accents."

<sup>1</sup> John, Housed. 2011. Why BC's Risst Rations Nanda China Strategy: APP Canada as cited in Mantakas, Juan Michal. 2005. Discepting: Consultan accessing style The That Nations & China' at strategy accelerate. Conference 58: 119. On the flip side, you will still need to deal with innguage and cultural herriers. Expect to have to deal with translators, local business agents, and learning new innguages or at least a few words or plenses. This will be a difficult task that often leads to international business struggles and follows.

## Energy and Natural Resources



#### Tour Resources

Indigenous communities have access to west energy and natural resources and these communities have continually expressed that they are not anti-development. Bother, they want to be included in the dialogue and benefit from development in line with community values, interests, and gasis, which often include strong canaidentien of social, cultural and emissionmental unlables in addition to economic variables. Some aspects argue that the energy and resource sector offers the most potential for

country-while indigenous economic development and that indigenous participation is key to the sector's future. Organizations like the holian Resource Council, the First Nations Major Projects Coulition and the BC First Nations Borryy and Mining Council (ICENEMIC) are proof of this.

With many indigenous people living near oil and gas departs, miner, forents, lakes and rivers, and other such natural resources, this is a particularly important industry. Most indigenous humanesses in Canada that already do business with Asian comparies or Asian-stillinted companies likely do so as part of natural resource agreements. Some other apperis have noted that there exists what clusely rescales the "resource come" in certain arrest despite access in natural resources, many indigenous peoples do not prosper from those resources. However, the industry is changing and is phylog an increasingly important role in indigenous peoples eccess in a more integration, offert, and invariants in particularity indigenous peoples neares proper and sufficient consultation, compensation, and opportunities. And new tools are making it easier for government and industry in mand resource sector-related contracts to indigenous businesses.

#### Your Opportunities and Challenges

Some indigenous organizations receive segular inquiries from stakeholders in Asia, indicating the opportunities for investment from Asia into indigenous-owned energy, natural resources, and resource development. As previously mentioned, the majority of indigenous businesses that have ongoing relationships with Asian stakeholders do so as part of resource agreements. From 2017 to 2018 alone, there were 21 deals intalling C\$29.58 invested from the Asia Pacific to Canada in the energy sector, compared to C\$19.468 invested from 2003 to 2010. This and other key investment information in several industries between Canada and the Asia Pacific can be from using APF Canada's <u>investment Monitor</u> tool.

The Asia Pacific already uses more energy than it produces, with a 75% increase in CO2 emissions in China alone from 2004 to 2012, and by 2035 the region will consume balf the worlds energy supply. Another appartantly is to look for additional business spin-offs, for example in managing, servicing, or maintaining any resource investment projects. The Asia Pacific region is also disputpartionately effected by climate. change, including rising sea levels, increasing storms, and pollution, leading to increased investment from the region into clean tech. Indigenous people value the environment, and the environment to Asia is becoming increasingly strated, leading to apportunities to collaborate in making the future a cleaner, greener one



through clean energy and clean tech. APF Canada's <mark>China Sco-City Tractor</mark> sheds light on the environmental indicators to 31 cities in China and can belp businesses identify potential opportunities in that market.

A critical component of measure development projects in the duky to cansuit, accommodule, and negotiate with indigenous peoples. This is important for indigenous-Asia Parific relations because there have been at least a few instances where Asian partners were unaware of this context or believed it to be a domestic rather than an international issue that they need not concern themselves with. Sock misunderstandings can cause castly delays, anaxy relations, or even the concellation of projects.

A BCFNEMC document succlustly describes the duty to consult and accountedate and negotiation practices:

- C An essential component of second development in Canada is the legal requirement to consult and accommodate Phot. Nations whose rights might be advected by inquicted by the development. Working clusely with Flost Nations and developing partnerships based on trust, respect and recognition of Flost Nations rights and title will help ensure the successful development and operation of resource-related project. By building relationships and second agreements with Flost Nations, companies will avoid project risks such as costly project delays due to Hightion or Injunctions, challenges to permits, restriction of access for works and negative meths comparison. Critical aspects of consultation and negotiation with Flost Nations on resource projects include:
  - Open and barrest communication throughout all aspects of the project.
  - Agreement that the free, prior and informed consent of First Nations must be obtained before developing projects and activities affecting their communities.
  - Negotiation of luquet and Benefit Agreements that include public sharing, equity, and other social and economic providens.

- Resource development must be conducted in an embrancentally, ecologically, aucially, culturally, economically sustainable and viable manner for the benefit of future generations.
- The inclusion of indigenous knowledge throughout the planning and development of a project.
- Financial resources for the First Nations to engage in the consultation and negatiation process.
- Education, training and capacity to ensure full participation in the planning, construction and operations of a project.

Preparing to discuss such practices and <u>measures participation models</u> with Asim stakebahiers can belp your potential partness understand the indigenous community and havings context and reduce risks.

## Agriculture and Agri-food



#### Your Resources

The **CCAN** argues that there is significant potential for indigenous businesses in grow in the agriculture and agri-food sector, a sector which currently bes an underrequesentation of indigenous businesses despite access to lond, water, and sea. In 2016, <u>2014</u> of indigenous agriculture businesses exported, abnost triple the Canadian average. Indigenous businesses produce and have potential to produce a while variety of agriculture and agri-food products soliable for Asia Pacific markets, ranging from common to more traditional and alche garins, fruit, waytables, meet, freebouter fail, and seafood products.

#### Your Opportunities and Challenges

With the growing economy and middle class in Asia, and the high regard for safe, high-quality, and mine/ specialty Canadian agricultural products, indigenous peoples with these resources or the patential to develop them have an oppartunity. With increasing governmental support, including indigenous funding, participation and skills development, and support for toxic with Asia, it is increasingly easy to conduct business and toxic in this sector. China is an expectally large market for agri-food and scafeod products, and many of these items are increasingly sold on a commerce platforms like Albaha, but it comes with its own set of tariff and nontariff barriers that can be arbitrarily imposed, and it is by no means the only market. Toxic in agriculture, agrifood, and seafood between Canada and the Asia Pacific region has increased by 200% since 2010, indicating the rapid growth in opportunities. However, as recent apats with China and India over consist, park, and paises have shown, a large market does not necessarily correlate with case of doing business, and these are difficult markets to engage. These products rely bearily on the Canadian reputation or brand for safe and quality products and investment.

The <u>Comprehensive and Progressive Agreement for the Trans Pacific Parimenship</u> (CPTPP) now gives Canadian products in this sector preferential treatment in member countries, which includes Japan, Vietnam, Malaysia, Australia, and New Zealand, and the Canada-Korea. Free Trade Agreement reduces or eliminates turiffs on expants to that market. The CPTPP allows Canadians to provide many other products with reduced tariffs, which provides them a competitive position over other major exporters like the United States. The CFTPP provides a variety of other benefits and acharitages, including reducing non-tariff barriers to trade.



## **Organizational Structure**



#### Your Resources

The argumentional structures of indigenous argumentions have patential to provide an ense of doing business that other businesses carnot. Self-governing indigenous nations that have jurisdictional control any play a stronger role in development within their territories. In theory this could translate into aniding it easier to conjust the regulatory conformation and to access key decision-makers and take less time to approve and anile projects. Some indigenous nations have their own independently

governed economic development corporations. Being independently governed can help minimize business risk, and therefore these businesses make attractive parimers.

Indigenous cultures typically lend to a long-term orientation, meaning that indigenous peoples generally think about the long-term consequences of business decisions tailay, and might prefer long-term relationships rather than focusing on short-term business dealings. Many countries in the Asia Pacific have a shaflar longterm orientation, meaning that they too prefer long term relationships and well-thought-out deliberation of business deals and their long-term effects. These similarities will act as a strength in Indigenous-Asia Pacific business, where both partness can feel confertable and respected in the structure of their relationship.

#### Your Opportunities and Challenges

In practice, the organizational structure of indigenous organizations often leads to a more difficult business emissionent, such as analong it more difficult to access ionse by providing callateral on reserve. The regulatory emissionent can also be complex and often space indigenous, hural, provincial, and rational regulatory frameworks, organizations, and decision-making authorities. Indigenous leaders have large partfulias of responsibilities and must make business decisions that account for more than just maximizing prafits, leading to decision-making being less structures decisions that account for more than just maximizing prafits, leading strengthen their governmore and self-determination, as community and business leaders use creative governance and organizations structures, and as different levels of government recognize the issues and take initiatives to structure bureaucocy and co-collinate better, arrest indigenous burders to business, and create new financial tools.

When developing your Asia Pacific strategy, understand that indigenous experimitional structures can be a strength, and communicating that internally to your team and to patential partners will help them understand that it is advantageous to partner with an indigenous business or organization. Being well prepared for projects by understanding exactly what regulatory processes, decidon-making, and internal factors are required can help. Many Asian stakeholders will not be assure of such indigenous argonizational structures and accompanying challenges and advantages. It may be challenging to have partners understand why and how indigenous entities are advantageous, so be prepared to describe your unique context, such as how key decision-makers will be easy to communicate with or how less red tape can lead to more productive and unitually beneficial relationships.

#### E-commerce



#### Thur Resources

**E-commerce** platforms have marketing channels with access to global markets that have demonstrated demand for holigenous products and services. As such, every venture should cansider have e-commerce fits into its Asia Pacific business strategy. Some products, such as freshwater fieb, wild ment products, artism carits, and tour packages, are well suited to e-commerce. Some indigenous entrepreneurs have apaken shout the ability of e-commerce to overcome common indigenous business

challenges, such as securing a land, setting up a minil location, going to a hunk, and accessing customers. For example, a <u>Francial Point</u>article noted that "By 2007, about 60 per cent of the world's online gambling traffic run timough servers in Kalmanular," a Quelec First Nations reserve. In addition, the <u>CCAB</u> found that less than half of indigenous non-exporters use social media while 7 in 10 exporters have an online presence.

#### Your Opportunities and Challenges

The Asia Pacific is a leader of e- and mobile commerce; China's market alone has over 800 million internet users, 90% of whom are mobile users, and the country is expected to become the world's longest e-commerce market with transactions of C\$9.4T in 2020. The Asia Pacific region is home to 8 of the top 20 internet companies in the world, based on revenue. China-based e-commerce giant Alibaha, for example, is one of the world's top 10 most valuable companies, worth around US\$4008. Japan-based Rakaten, another one of the world's ingest e-commerce companies, but 62 million online shoppers in 2017, and South Koren has over 30 million online shoppers every year. Consumers in the Asia Pacific have some of the highest rates of online shopping, and consistently buy firstly priced and quality publics from around the globe. APF Canada has free e-commerce reports on succeeding in Shine, a C\$9.4T e-commerce market, Japan, the world's fourth-largest e-commerce moriet, and South Korea, the world's third-largest e-commerce market.



When preparing to use e-commerce for Asim markets, keep in mind that doing so may not be as studghtforward or easy as it may first appear. These platforms are often not just a Chinese or Japanese version of Annuon. Not only will you need to norigine each platform's requirements and peruliaettien, you will likely need to provide content customized to the region you are operating in, for example with local language and cultural aspects. The Canadian Toxic Commissioner Service has a free <u>5-Commerce in China Guida</u> that Canadians can obtain by emailing the China TCS team, and the World Toxic Centre Vancouver affers a one-day <u>international 5-Commerce Economics</u> (CE) program for IX businesses and will write the fee for fodgenous businesses. The Asia-Pacific Economics Cooperation (APEC), of which Canada is one of the 21 members, created a free <u>Cross Border 5-Commerce Toxing</u> toal to belp such effects. Another important e-commerce consideration is how payments will be made and the strategic approach to specific markets. For example, it likely makes sense to begin exporting to a typical Canada-Asia toxic hab like Tahsan or Hong Kong, and then scale to China or elsewhere based on success.

While most indigenous business have access to the internet and consider it reliable, **CAR** found that it is used less often and is less reliable in the territories, the Atlantic, and an anny reserves. These remains a digital divide in Canada, and many indigenous communities have no, limited, or unaffaminible access to internet services, which is had en and may contribute to always economic development than the rest of Canada.

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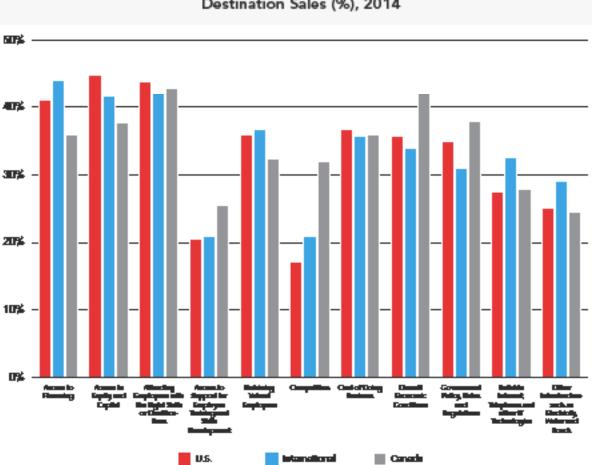
Having an antine presence may be a challenge for your business, but many communities are working to find connectivity solutions and modernize their internet capabilities.

## Industries

An industry is the group of companies and related organizations in which you operate. For example, if you are lunking to attract new investment from the Asia Pacific for your energy company, there will be other companies with potentially charper, easier to access, or different sources of energy and related businesses in Canada, in the Asia Pacific, and around the world that you will have to compete or collaborate with to attract investment. Industry information and opportunities are discussed in this section.

#### **Industry Competition and Challenges**

There are several forces that will impact industry-related coordientions in your strategy, including the amount of power that your suppliers and buyers have over you, the existing level of competition, and how easy it would be for others to enter the industry or substitute your products and services. Unique competitive aspects of an indigenous business might include geographic and forming challenges, or the transition and structure of some indigenous businesses. Additional indigenous-specific considerations are shown in Figure 6, which shows the percentage of indigenous businesses that face burriers to business expansion depending on their market. While your company may or any not face the same obstacles the figure provides a mogh indication of which areas may prove more combersome or time-consuming for international exporters (e.g. access to financing and attracting employees with the right skills and qualifications) wereas areas that are less likely to be impedimenta (e.g. access to support for employee training and skills development and competition).



Reported 'Important' and 'Highly Important' Obstacles to Growth by Destination Sales (%), 2014

Source: Audrey Bélanger Baur (2019), <u>Indigenous-Owned Exporting Small and Medium Enterprises in Canada</u>, Global Affairs Canada & Canadian Council for Aboriginal Business, p. 34

#### Indigenous Opportunities and Participation in Industries

There are a variety of industries that indigenous businesses are well set to further engage within the Asia Pacific, such as the tourism or section products industries. Section 3, Number 17: Trands of indigenous Participation in Exporting industries above several figures that detail what industries self-employed Indigenous entrepreneurs work in, what destinations indigenous businesses export to, and which industries Indigenous businesses operate in and export from. This helps point a picture of the current industry industries, including trends and potential opportunities for exporting for indigenous businesses. Despliz sensore and industry alignment with opportunities between indigenous Canadian businesses and the Asia Pacific, success is not guaranteed. Some indigenous argumbations have worked practicely to build partnerships and others have experienced difficulty in building partnerships and having their needs and interests adequately separated when engaging with the region.

CC First Nations have been in a sourcive mode when Chinese developers came to their territories. If there isn't some structure to the relationship, First Nations risk renowncing companies and missing out on opportunities for economic development." 33

Some indigenous peoples have found that partnering to <u>crustle their own inditutions</u> has helped to overcoming these challenges, and <u>recent charactions</u> at APF Canada with industry leaders came to a similar conclusion. It can be cruste canfidence in your ability to meet demand, reduce risk, and is easier to deal with. By creating expendentions that bring together various indigenous nations in Canada or with those in the Asia Pacific, it could be easier to communicate, build partnerships, and increase autoneauy. A simple starting point would be to agree to work ingether to deliver a product or service to the region. Such partnerships can be within or across multiple industries, like an economic co-operative or toxic association such as the Nanatziavat Group of Comparises or the Nanatziavat Bodiness Consortion. It can otherwise be difficult to have a underest stortegy that is leased as many national interests and values comparise for attention in Asia Pacific markets.

#### Other Industry Opportunities

Retail, sendential, and light industrial land development is a large economic driver for indigenous businesses and has high potential investment from the Aria Pacific, as many communities have access to land that can be used for commential purposes. Remeable energy, as manemus projects access the country attent, is also a high-potential investment for indigenous communities with the land required for purduction and a shared interest in renevables.

Union First Nations have the additional opportunity for Asian partners to invest in technology manufacturing, especially with a larger and more technical labour force available. For ideas on entering different technology industries, the <u>innovation Superclusions initiative</u> can give an approximation of which technologies will have forwarded investment, labour, and activity in different assus of Canada. Another example would be to work, with Asian partners to test technologies, such as automated colline health services, <u>1D printed housing</u>, and new clean energy inchnology, on indigenous lands. Of indigenous exporters, 14.4% are involved in manufacturing. Although there is no data on what they are exporting, this shows that it is a common activity. A related example is the previously mentioned First Nations community that hosted around 60% of the world's colline graphing tuffic by 2007, an indicator of the opportunity and ability to use technology for business on reserves. The banefit for Asian partners would be that there are forwarable cognitational structures, testing conditions, and overlapping gasis with indigenous partners.

For industry information that can further inform your Asia Pacific strategy, see Section 3, Number 11: Industry and Logistical Information for a Successful Asia Pacific Business Strategy.

## Institutions

Institutions are referred to in this guidebook as formal things like inse, rules, or regulations, and informal things like culture or business norms, that dicinte how we should act. Becausing familiar with the institutions

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<sup>•</sup> BC First Nations Energy and Mining Council op. cit.

relevant to your Asia Parific strategy is important to ensure success. Some global business failures are a result of not knowing me's institutional environment, such as relevant invo and certain aspects of business culture. It is particularly important to understand the local culture and laurn how to do business in that context when dealing with global partners. This section will introduce some relevant formal and informal institutions.

#### Cultural Know-have for Businesses

Cross-cultural considerations are important in global business. There are many similarities in culture and values in Asia and in Indigenous Canada, including diversity, long-term orientation, importance of relationships, and trust building, which can provide deeper business connections. Indigenous businesses will benefit from having both strong business and Asia Pacific cultural acamen to engage successfully with the region. The oran is an indigenous businesses to learn as much as they can about the cultures and business practices in their target markets or of the Aria Pacific-based company that is looking to invest in Canada.



Developing Asia competencies, such as language training, networking, and industry incoviedge, can support cross-cultural business success. This can be accomplished by sending youth and students for internation, study alread, job placement, and networking through conferences and ethnic business associations. Signing up for APF Canada's tri-weekly Asia Which newsletter, taking abuit language classes, having your bund, newsletter, taking atoit language classes, having your bund, newsletter, taking atoit language classes, having your bund, meeting at an Asian metaument, adding Asia competencies to your bund matrix and director search criteria, enguing with an Asian business association, or visiting an Asia-based supplier are other ways of increasing Asia-minited competencies within your business. Another option is to take the Forum for international Toxice Toxining's international Competences crucse for C\$300. For a list of indigenous and Asia cultural guides, basic phoneses in Asian languages, a list of Asia-related centres at post-secondary institutions access the country, and Government of Canada cultural resources on the Asia Pacific region, see Section 3, Number 13: Asia Cultural Guides, land: Pacific Preses, and Aciditional Government of Canada Resources.

Not only is it necessary for indigenous business leaders to have an understanding of the similarities and differences of the people and caustry of your intended market in the Asia Pacific, it is likely that comparies and government afficials in the Asia Pacific may be unfamiliar with indigenous cultures, histories, and business practices. Directing your Asia Pacific partness to available resources that particle indigenous cultures, histories, and business introductions can belp improve matual understanding and mitigate potential challenges upfront. While there is currently no document, program, or central organization gamed specifically toward introducing Canada-wide indigenous culture, bistory and business practices for a pan-Asia Pacific audience, there are a number of free and potentially useful resources. For example, indigenous Works has created a <u>server singe</u> <u>partnership framework</u> for indigenous and non-indigenous interactions based on interviews and a survey with over SUI businesses. For a list of such partnership-building practices, see Section 3, Number 9: Resources for Nativerting and Partnership Building in Canada and Asia.

#### Meeting Clientz and Partners

There are a variety of institutions and argumentions in Canada and around the world that can help increase your Asia Pacific success by providing opportunities, including famocing, to meet clients and partners in the region and gain market knowledge. The Asia Pacific Poundation, the Canadian Toxic Commissioner Service, and the CanExport program are a few complex. To read more, see Socian 3, Number 9: Basources for Networking and Partnership Building in Canada and Asia.

For more financial and logistic support resources, see Section 3, Number 10: Financing and Logistical Tools. For more information on officer and contacts that can assist in planning, financing, and networking, see Section 3, Numbers 3 to 7:

- Number 3: In-country Resources: Northeast Asia
- Number 4: In-country Resources: Southeast Asia.
- Number 5: In-country Resources South Adu.
- Number 6: In-country Resources: Oceanda.
- Number 7: Provincial Support for Doing Business in Asia.

#### Indigenous Networking in Canada and Asia.

Networking with other indigenous people and argumentions can also be beneficial. Some regulations, like the CCAB, have a wealth of related information and resources and often host events around the country. Your network can provide menturship, connect you with global opportunities, inform you of current events, and partner with you in business, such as by arguments trade events or working together to access a new market.

The first federally led Indigenous trade mission took place in October 2018 on the aldelines of the World Indigenous Business Forum, and the second federally led science took place alongside the International Inter-Tribul Toole and Investment Organization (ITIO) mission to Texas and Oklahoma in June 2019. There are many other opportunities noticently and internationally. There are also a wide watery of consultancies with an Indigenous focus or department; for example, the Indigenous communications from Creative Fire recently hosted a roundtable with APF Counts and several Indigenous organizations. For a list of Indigenous cognitiations that you may want to connect with or that provide networking events and general business networking in Counts and Asia, see Soction 3, Number 9: Resources for Networking and Partnership Building in Counts and Asia. Indigenous businesses have also taken it into their own hands to organize trade missions to Asia and welcome neverse missions from Asia to Constit. Reacking out to organizers or participants to get involved or learn from their experiences could help ensure indigenous businesses and communities are building from experience and learned best practices rather than reinventing the wheel.

#### Free Tende Agreements and Investment Treaties with Asia

Free trade agreements (FTA) are treatiles that open international markets to Canadian businesses by reducing trade barriers, such as tariffs, quotas, or non-tariff barriers. Some countries use the term "economic partnership agreement" instead of free trade agreement. Canada has 14 FTAs with over 50 countries in force, two of which are with Asia. One is with South Roma, and the other is the Comprehensive and Progressive Agreement for Tenns-Pacific Partnership (CPTPP) that came into force on December 30, 2018. Canada and Association of Southeast Asim Nations (ASEAN) member states announced the isanch of explosatory discussions for a possible Canada-ASEAN FTA on September 6, 2017, with more discussions taking place in April 2018.

Foreign investment protection and protection agreements (FIBAs) are blatenil agreements about at protecting, and promoting foreign investment through legally binding rights and obligations. The Consolan government has concluded many FIPAs with Asian economies and continues to negatiate new agreements. Canada has 30 FIPAs in force, 5 of which are with Asian countries, and 2 of the 14 FIPAs in negatiation are with Asian counterparts. Asia Pacific-related FTAs and FIPAs can be found in Section 3, Number 8: Relevant Canada-Asia Pacific Free Trade Agreements and Foreign investment Protection and Protection Agreements.

You should contact a Tende Commissioner or <u>Export Development Canada</u> to discuss how trade agreements might benefit your company.

#### Institutional Engagement

Engaging with different institutions such as governments and legal systems can be difficult to novigate. For information on dealing with Azim governments, including protecting your intellectual property, government and business law, risk assessment, and trade and investment agreements, see Section 3, Number 12: Dealing with Azim Governments.

For tips and insights to ease the difficulty of engaging and doing business in different institutional and other contexts, see the following parts in section 3:

- For tips on doing basiness in Asia generally, see Section 3, Number 1: Doing Business in Asia: Cuick Tips;
- For tips on Indigenous economic development practices, see Section 3, Number 14: Current Indigenous Economic Development Practices; and
- For examples of engagement actions from previous indigenous-Asia business strategies, see Section 3, Number 15: Engagement Strategies of Previous Indigenous-Asia Statusholders and Indigenous Global Business Examples.

Other resources to help get you started an developing your Asia Pacific strategy and set you on a path to begin or expand your business in Asia Pacific include this simp-by-simp guide, these introductory measures on expanding, and these measures on indigenous expanding from the Government of Canada.

## Conclusion

Engaging with the Asia Pacific provides many opportunities for indigenous businesses and commonities to economically expand while meeting their business, community, and social goals. But doing so will not be for everyone, it will require conscious efforts over a significant period of time, such as ensuring support and interest from your chief and council, bounds, and numegeneent; careful planning and continu of Asia Pacific strategies; solid market research and preparing your product or service appropriately; analog frequent visits to the region; and weathering the ups and downs. Duing so may require building new partnerships with other indigenous business or communities in Caracia or abroad to address acale, burnd, risk and capacity challenges. Understanding the context of the resources, industries, and institutions relevant to your strategy will belp ensure you move down a good path toward engaging with the Asia Pacific region.

Indigenous individuals and communities have given rise to tens of thesesuries of businesses with their own resources, wakes, and interests, which represent a unique and vital component of the Canadian economy and society. Indigenous peoples can and are increasingly co-operating across the country to represent their interests globally. That a quarter of indigenous businesses are already experting in one form or mother shows that indigenous Canada has a strong base from which to grow its globalized economic fortures. Working collaboratively and cooperatively across indigenous nations and organizations has the potential to make it easier to brand, communicate, and engage with the Asia Pacific.

Indigenous businesses can work alongside the sect of Canada toward reconciliation and development; promoting Indigenous opportunities and integration in the global economy can belp make progress on both gasls. Regiging with the Asia Pacific way kelp meet your business or community social and economic interests and gasls, and this guidebook will hopefully help artigiste cisis and maximize apportunities with engaging Asia Pacific markets and stakeholders. Even if you decide direct engagement is not right for you, having a better understanding and gasp of the region will help with long-term planning and understanding of global markets and communities, as the Asia Pacific will continue to be a key driver of the world economy for the foresenable future.

# Section 3:

## Tips, Tactics, and Resources for Success

## Overview

This section provides more detailed information on specific topics and the most actionable resources that this guidebook balls, whereas section 1 and 2 makes a case for why indigenous businesses abould consider business engagement with the Asia Pacific and discuss the apportunities, challenges, and approaches to duing so. Each numbered lizen lists information or resources specific to a certain area of interest, such as industry information for specific Asian countries, details on current and potential index and howetment agreements, networking opportunities for indigenous businesses, cultural guides, and more All of these tips, tactics, and resources sections are introduced in sections 1 and 2 of the guidebook as they curse up in relevant discussion, and below is a list of each with a brief description of what you will find within.

- 1. For tipe on doing business in Asia generally, are Section 3, Number 1: Doing Business in Asia: Cuick Tipe;
- A checklist to see if you are ready to expect and your patential for doing so can be found in Section 3, Number 2: Experting Propertiese Checklist;
- 3. For a list of offices and contacts that can assist in pinoning, formcing, and networking in Northeast Asia, are Section 3, Number 3: in-country Resources: Northeast Asia;
- For a list of offices and contacts that can assist in planning, formcing, and networking to Southeast Asia, are Section 3, Number 4: In-country Insources: Southeast Asia;
- For a list of offices and contacts that can assist in planning, formcing, and networking in South Asia, see Sortion 3, Number 5: In-country Resource: South Asia;
- For a list of offices and contacts that can assist in planning, formcing, and networking in the Pacific, are Section 2, Number 6: In-country Resources: Oceania;
- For support effected by the provinces, including affines and contacts that can assist in planning, framcing, and networking, are Section 3, Number 7: Provincial Support for Doing Business in Asis;
- For a list of relevant current and potential free trade agreements and foreign investment prematize and protection agreements, see Section 3, Number & Beienank Canada-Asia Pacific Frae Trade Agreements and Foreign investment Promotion and Protection Agreements;
- For a list of partnership-building practices, see Section 3, Number 9: Resources for Nationalding and Partnership Building in Canada and the Asia Pacific;
- Par lists of financial and logistical support measures, see Section 3, Number 10: Financing and Logistical Tools;
- For industry information that can inform your Asia Pacific strategy, are Section 3, Number 11: Industry and Logistical information for a Successful Asia Pacific Business Strategy;
- For information on dealing with Asim governments, including protecting your IP, government and business last, risk assessment, and izade and investment agreements, see Section 3, Number 12: Dealing with Asian Governments;

- 13. For a list of Indigenous and Asian cultural guides, basic phrases in Asian languages, a list of Asia-related centres at post-secondary institutions across the country, and additional Government of Canada cultural resources on the Asia Pacific region, see Societo 3, Number 13: Asia Cultural Guides, Basic Phrases, and Additional Government of Canada Resources;
- For tips on Indigenous economic development practices, are Section 3, Number 14: Current Indigenous Economic Development Practices;
- For examples of engagement actions from previous indigenous-Ada business stategies, see Section 2, Number 15: Engagement Stategies of Provious indigenous-Ada Statesholders and Indigenous Global Business Examples;
- For some accounts of shared indigenous-Asia Metzry, rolture, and values, are Section 3, Number 16: Examples of Shared Indigenous-Asian History, Culture, and Values, and
- For seven) figures from a 2019 GAC-CCAB report that detail what industries self-employed indigenous entrepreneurs work in, what destinations indigenous businesses expect to, and which industries indigenous businesses operate in and expect from, see Section 3, Number 17: Trands of Indigenous Participation in Reporting Industries.

## 1: Doing Business in Asia: Quick Tips



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## 2: Exporting Preparedness Checklist

The <u>Step-by-Step Guide to Exporting</u> lists a number of Impactant questions to ask yourself before going global:

## Your expectations – do you have:

Clear and achievable export objectives;

A realistic idea of what exporting entails;

An openness to new ways of doing business; and

An understanding of what is required to succeed in the international marketplace?

### Human resources – do you have:

The capacity to handle the extra demand associated with exporting;

A senior management committed to exporting;

Efficient ways of responding quickly to customer inquiries;

Personnel with culturally-sensitive marketing skills; and

Ways of dealing with language barriers?

#### Financial and legal resources – can you:

Obtain enough capital or lines of credit to produce the product or service;

Find ways to reduce the financial risks of international trade;

Find people to advise you on the legal and tax implications of exporting;

Deal effectively with different monetary systems; and

Ensure protection of your intellectual property?

#### Competitiveness – do you have:

The resources to do market research on the exportability of your product or service;

Proven, sophisticated market-entry methods; and

A product or service that is potentially viable in your target market?

#### The Step-by-Step Guide to Exporting also lists factors to carelder when evaluating your export potential:

## Customer profile:

Who already uses your product or service?

Is it in broad general use or limited to a particular group?

Is it popular with a certain age group?

Are there other significant demographic patterns to its use?

What climatic or geographic factors affect the use of your product or service?

## Product modification:

Are modifications required to make it appeal to foreign customers?

What is its shelf life? Will this be reduced by time in transit?

Is the packaging expensive? Can it be easily modified to satisfy the demands of foreign customers?

Is special documentation required? Does it need to meet any technical or regulatory requirements?

#### Transportation:

How easily can it be transported?

Would transportation costs make competitive pricing a problem?

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Does it require professional assembly or other technical skills?

Is after-sales service needed? If so, is it available locally or do you have to provide it? Do you have the resources to do this?

#### Exporting services:

If you're exporting services, what is unique or special about them?

Are your services considered to be world-class?

Do you need to modify your services to allow for differences in language, culture, and business environment?

How do you plan to deliver your services: in person, with a local partner, or electronically?

### Capacity:

Will you be able to serve both your existing domestic customers and your new foreign clients?

If your domestic demand increases, will you still be able to look after your export customers or vice versa?

To help you prepare and navigate the complexities of international trade, take this quick <mark>suport quie</mark> to see if you are mady and take a look at this free Step-by-Step Guide to Exporting.

A course to take to ensure you are well prepared for Asia Parific engagement is the Tode Accelerator Program. TAP, as it is commonly called, was first offered by the Tommta Region Runed of Toucle in 2015 and is now offered. nationselde. Contact an office in your area for more information and to register. The fees will be varied for Indigenous businesses.

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## 3: In-Country Resources: Northeast Asia

The following provides links to various affines throughout Northeast Asia that can be contacted to provide Information for planning, formcing, and connecting with potential partners.

### Trade Commissioner Service Offices

China Offices: Belling, Changdu, Chongqing, Guangshou, Hangshou, Hong Kong, Nanjing, Qingdan, Shanghai, Shanyang, Shanshen, Tianjin, Wahan, Xiamen, Xi'an

Additional measures can be found at the Toxie Commissioner Services Canadian SNE Galaxyay to Ohine.

Japan Officer: Kitakyunhu, Osaka, Seppore, Tokyo, Nageya,

Kona, Mongola, Takun

#### Export Development Canada

BDC Chine: Chin Wan Lieve, BDC Chief Representative Tel.: (86-21) 3279-2832 Bouri: clievegedc.co

#### **BC Trade Offices**

China Office: Balling, Guangshou, Hong Kong, Shanghal

Japan, Karaa

## Alberta Trade Offices

China Office: Juljing, Guangshou, Hong Kong, Shunghul

Japan, Karen, Talwan

## Ontario Trade Offices

Chine Officer: Belying, Changeing, Hang Kang, Shanghei

Japan, Karaa

## Quebec Trade Offices



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## 4: In-Country Resources: Southeast Asia

The section provides information for various offices throughout Southeast Asia that can be contacted to provide information for planning, formcing, and connecting with potential partners.

## Trade Commissioner Service Offices

Vietnam Office: Hanol, Ho Chi Minh City

Brunel, Indonesia, Malaysia, Singapora, Burma (Myanmar), Laos, Philippines, Thailand, Cambodia,

**BC Trade Offices** 

Philippines, inclunesia, Singapora

Alberta Trade Office

Singapore



## 5: In-Country Resources: South Asia

This section provides information for various affires throughout South Asia that can be contacted to provide Information for planning, formcing, and connecting with potential partners.

## Trade Commissioner Service Offices

India Offices: Ahmedabad, Chendigarh, Hyderabed, Mumbel, Bangalore, Chennel, Kalkata, New Delhi

Paldatan Offices: <u>Islamahari</u>, <u>Karachi</u>

Bangladesh, Sri Lanka

**BC Trade Offices** 

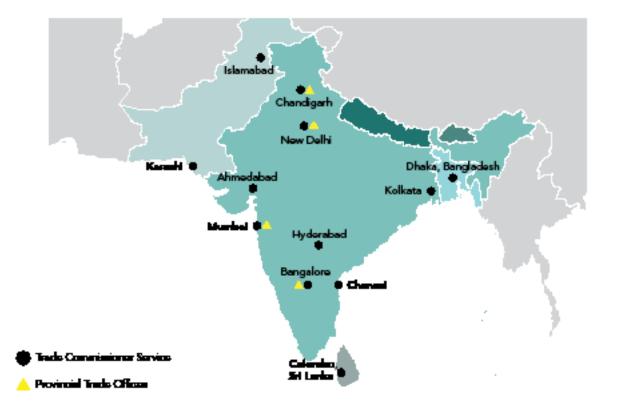
Alberts Trade Office

India Offices: Delhi, Chundigarh, Mumbel

India Office

**Ontario Trade Offices** 

India Offices: Mumbal, New Delbi.



## 6: In-Country Resources: Oceania

This section provides information for various affines throughout the Pacific that can be contacted to provide Information for planning, financing, and connecting with potential partners.

### Trade Commissioner Service Offices

Acatalia Offices Carborn, Sydney

New Zealand Office: Auckland, Weilington





## 7: Provincial Support for Doing Business in Asia

In addition to federal government programming, province and territories also have services for supporting international business. Some provinces have their own trade offices in the region. Provinces with international trade offices are listed in numbers 3 to 6 of this section. Information for provincial domestic brack support is listed below.



## Alberts Trade Support

<u>invert Alberta</u> provides support for Alberta companies looking to grow internationally. Nine of the province's 12 international offices are in Asia.



## **BC Trade Support**

<u>Trade and invest British Columbia provides support for BC comparies looking to grow</u> Internationally. They may have services for Asia Pacific regions.



## Manitoba Trade Support

The <u>World Trade Cantre Winnipog</u> provides support for Manitobe companies looking to grow internationally. They may have services for Asia Pacific regions.



## New Brunswick Trade Support

Opportunities New Brunswick (ONE) provides support for New Brunswick companies looking to grow internationally. They may have services for Asia Pacific regions.



## Newfoundland and Labrador Trade Support

International Basiness Development (1990) provides support for Newfoundland and Labrador companies looking to grave internationally. They have services for Asia Pacific regions.



## Northwest Territories Trade Support

You may find teade support from the <u>Northwest Tarritories Industry, Tourism, and</u> Investment programs and <u>services</u>.



## Nove Scotie Trade Support

Nova Scatia Business Inc. (mid) provides support for Nova Scatia companies holding to grow internationally. They may have services for Asia Pacific regime.



### Nursvut Trade Support

The Nonzont Department of Rezonanic Development and Tomspectation has various programs and resources that may provide support for Nonzont comparies looking to grow internationally.



## **Ontario Trade Support**

<u>Invert in Ontario</u> provides support for Ontario companies looking to grow Internationally. They have services for Asia Pacific regions.



## PEI Trade Support

<u>Giobal Trade Services</u> provides support for PHI companies looking to grow Internationally. They have services for Asia Pacific regions.

Tracia Team PEE provides support for PEI companies looking to grow internationally. They have services for Asia Pacific regions.



### Quebec Trade Support

<u>Currier international</u> provides support for Queber companies looking to grow Internationally. They have services for Asia Pacific regions.



### Sadortchewan Trade Support

The Saakatzhevern Trade and Report Partnership (**STEP**) provides support for Saakatzheven companies holding to grow internationally. They may have services for Asia Pacific regions.



### Yukon Trade Support

You may find trade support from the Government of Yokun <u>funding and support for</u> business.

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## 8: Relevant Canada–Asia Pacific Free Trade Agreements and Foreign Investment Promotion and Protection Agreements

## FTAs in force:

Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP)

This agreement strengthens and diversifies trade and investment; creates new jobs; creates commercial opportunities with new free trade partners (Australia, Brunei, Japan, Malaysia, New Zealand, Singapore, and Vietnam) and existing partners (Chile, Mexico, and Peru); eliminates tariffs and non-tariff barriers for sectors such as agriculture, forestry, industrial machinery, heavy equipment, and services; includes labour and environment chapters; and increases investment protection, predictability, and transparency.

#### Canada-Korea Free Trade Agreement

The Canada-Korea FTA came into force January 1, 2015. This agreement provides increased market access, simplifies business such as through easier clearing of goods through customs, reduces non-tariff barriers, increases access for services and temporary entry, and provides a gateway to other Asian countries.

## FIPAs in force:

#### <u>China</u>

FIPA negotiations began in 1994 but froze until the completion of China's accession to the World Trade Organization. Negotiations resumed in 2004 and the two governments signed the document in 2012. The treaty came into force on October 1, 2014.

#### Hong Kong

Negotiations were concluded on May 23, 2015. The treaty came into force September 6, 2016.

#### Mongolia

The first round of negotiations took place in 2009. The Canada-Mongolia FIPA came into force on February 24, 2017.

#### **Philippines**

This FIPA entered into force on November 13, 1996. In 2010, Canadian direct investment in the Philippines totalled C\$761M.

#### Thailand

This FIPA came into force September 24, 1998.

### FTAs and FIPAs in discussion and negotiation:

### India FIPA

Negotiations of this FIPA were concluded in June 2007; the agreement was signed but has not been ratified. This FIPA is paving the way for discussions regarding the Canada–India Comprehensive Economic Partnership Agreement, which is now in negotiations.

#### India FTA

The tenth round of the Canada-India Comprehensive Economic Partnership Agreement negotiations took place in August 2017, with agreement for more negotiations.

#### Philippines FTA

Exploratory discussions for potential negotiations of a bilateral FTA were launched in May 2015, and a meeting took place in July 2015. Now the exploratory discussions are focused on overall economic engagement with ASEAN member states.

#### Pakistan FIPA

The third and most recent round of negotiations of this FIPA were held May 28 and 29, 2012, in Ottawa.

#### China FTA

On September 22, 2016, Canada and China announced the launch of exploratory discussions for a possible Canada-China FTA. The most recent set of meetings took place from July 31 to August 4, 2017.

#### Thailand FTA

In March 2013, Canada and Thailand announced the launch of exploratory discussions for potential negotiations of a bilateral free trade agreement. The exploratory discussions concluded in July 2015. Now the Canadian government is focused on exploratory discussions on overall economic engagement with ASEAN member states.<sup>9</sup>

## 9: Resources for Networking and Partnership Building in Canada and the Asia Pacific

The following resources may help with preparing for visits from Asia Pacific stakeholders and informing them, about indigeneus cultures, histories, and business.

## Seven Stages of Building Indigenous-Non-Indigenous Partnerships

Indigenous Works, an argumention in Caracle that was created to address the need to understand and improve Indigenous – non-Indigenous partnerships, created a <u>seven-single partnership market</u> based on surveys with over 500 businesses and interviews. The seven single are:



This partnership model provides characteristics of each stage and recommendations for successfully navigating from one stage to the next.

## Resources for Engaging Indigenous Canada

Engagement is a two-way process. Just as Indigenous businesses must learn about each particular market, culture, and people of a particular place in Asia Pacific, it may be beneficial for potential Asian partners to learn more about indigenous Canada. While there are no comprehensive resources or organizations definited to this, there are a number of resources that could be shared to kelp inform and prepare Asia Pacific stakeholders for engaging with indigenous Canada. These include:

 BC (2014): <u>Building Relationships with First Nations: Respecting Rights and</u> <u>Doing Good Business</u>;

Japanese Translation Mandarin Chinese Translation Korean Translation

- BC (2014): <u>Guide to Involving Proponents When Consulting First Nations;</u>
- Association for Mineral Exploration BC (2015): <u>Aboriginal Engagement</u> <u>Guidebook: A Practical and Principled Approach for Mineral Explorers;</u>
- City of Vancouver (2014): <u>First Peoples: A Guide for Newcomers;</u>
- Alberta (2013): <u>Aboriginal Peoples of Alberta: Yesterday, Today, and</u> <u>Tomorrow;</u>
- Canadian Construction Association (2016): <u>Indigenous Engagement Guide;</u>
- Engaging Saskatoon Region Employers (2019): <u>The Business Case for</u> <u>Reconciliation</u> can provide reasons, lessons learned, best practices, and more for employing Indigenous peoples. This resource can be especially useful in resource projects or others where your partner may hire Indigenous workers; and
- Bob Joseph & Cynthia Joseph (2017): <u>Working Effectively with Indigenous</u> <u>Peoples</u>.
- Canada Council for Aboriginal Business (2019): Business Reconciliation in Canada: <u>Actions for Small Business</u> Business Reconciliation in Canada: <u>Actions for Large Business</u> <u>Business Reconciliation in Canada Guidebook</u>

There is also a wide variety of consulting firms that do work on indigenous-non-indigenous relations that may be able to belp with Asia Pacific stakebolders.

## Networking Through Canada-based Indigenous Organizations



The following organizations may be beneficial to connect with and several hold regular events.

- The international inter-Tribal Trade and Investment Organization (IITX) seeks to support and enhance the implementation of the global flow and exchange of indigenous goods, services, and investments. Global Indigenous business information and news is analishin at this vehicle;
- The international indigenous Trade Mission and Conference is held tasks a year and can provide information and networking opportunities for indigenous global business;
- The <u>World indigenous Business Forum</u> is an annual forum that attracts indigenous people from annual the world in discuss global eronomic issues and provides information and networking opportunities for indigenous global business;
- The <u>Canadan Council for Aboriginal Business</u>, a national argonization with over 700 indigenous and non-indigenous members, offers networking opportunities, suspend on Aboriginal businesses in Canada, and resources general toward beiping indigenous business surrent;
- Raren Brents' <u>Advanced Business Match Indigenous</u> runs trade and business matching events across the country with a current focus on the Pathles, West, Bast, Alberta, and Vanzaver Lover Mainland;
- The Aboriginal Woman's Business Entropreneurship Network provides support and assistance for Aboriginal women in business at all levels of business, including with specific programs and resources and an annual conference;
- The <u>huit Women in Business Network</u> provides appart and assistance for huit women to business at: all levels of business;
- Business Women in international Trade provides trade support and advice, from women-focused trade triations to advice and framcing, for majority (\$1%+) women-owned and managed businesses;
- The <u>Insuration Sconemic Summit</u> is the largest indigenous business conference in the United States and provides a large networking and business apportunity; and
- The <u>NMSOC Contenance and Business Opportunity Exchange</u>, located in the United States, provides a large forum with the purpose of connecting argumentions to minority (including indigenous) suppliess for procurement and business opportunities.

## Networking Through Canada-based Asian Business Associations and Trade Offices



- <u>Canada China Business Council</u>
- <u>Canada Korea Business</u>
   <u>Association</u>
- <u>Canada-India Business Council</u>
- Canada-Vietners Trade Council
- Hong Kong-Canada Businasa, Association
- Taken Charaber of Commerce, In B.C.
- Talwan Trade Center.

## Networking Through Asis-based Chambers, Consulates, and Trade Offices



#### Constan Chambers of Commerce and Business Associations in Key Markets

- China Hong Kong, India Japan, Indonesia, Korea, Philippines, Singapore, Taken, Theland, Visiona
- Association of Southeast Asian Nations
- World Chember Network

#### Canadatas and Trade Offices

Chinese, Indian, Indonesian, Japanese, Karean, Filipina, Mongolian, Singaponsan, Takamese, Thai, Mininamese

#### **Comment** of Counts

- Trade Commissioner Service: <u>Evenis abraed</u> and <u>evenis in Canada</u>
- Export Development Canada: <u>Events</u>.
- Agriculture and Agri-Road Canada: <u>Trade above</u>

## Mentoring Support in Carada



The Canadian Council for Aboriginal Bosiness reports that the majority of Aboriginal businesses (59%) seek informal networking and mentatably support, while less than a quarter, primarily large well-established comparies, seek more formal mentatably apportunities. Below are a few related seconces to help with your mentating needs.

- Futurpreneur Canada
- MentanhipiK:
- Farum for Warren Entrepreneurs Mentar Program.
- Startup Canada.
- Ontario Small Basiness Services Indigenous antrepreneur guide to starting a business
- Innu Business Densigpment Centre

## 10: Financing and Logistical Tools

A 2016 survey by the Constilan Council for Aboriginal Business reports that finding and then qualifying for financing are key obstacles for about half of Aboriginal businesses and that women probably find it more challenging to access financing than their male counterparts. Seven out of ten Aboriginal businesses do not have a formal business plan and cits not seeing the value of buying one or not having the resources to develop one. This is noteworthy because buying a formal business plan can provide a solid foundation for a company and is aften a requirement for accessing financing.

As said by the CFO of Indigenous and Northern Affrica Canada,

C I see two main challenges: community infrastructure and connectivity in Piert Nation communities and the persistent socio-eccount: gap between many Fost Nations and other Canadian communities. Fost Nations have entropreneurial spirit the same as other Canadians, but were often not afferded the same renormes and apportunities as other Canadians.

However, I am happy to any that there are all invest that are getting increasing attention and funding. My department is working with Flort Nation people and communities access Canada to support their aspinitions to pursue economic development apportunities and wealth creation. There have also been substantial Government of Canada investments in infrastructure made in secont years in Flort Nation communities, and increased education funding to improve fature apportunities for First Nation youth. 23

The following links provide specific formcing and logistics support for holigenesis peoples seeking to enter the global economy.

### Indigenous Business Finance Support

- Altoriginal Francial institutions (AFIs) are the primary indigenous-owned francial supporters of indigenous business. There are 50 AFIs located across every province and teerlizery in Canada, and the National Aboriginal Capital Corporations Association (NACCA) website first them by province or teerlizery and purisies a map indicating the location of each AFL Fourteen of the AFIs, as shown on this website, also administer the Aboriginal Bosiness and Ratespreneurship Development Fouri provided by the Government of Canada to support Indigenous business development. These francial supports generally provide more support and forougable terms, such as lower interest rates, then other financial institutions;
- <u>First Nations Financial Authority</u> provides First Nations governments with Investment options, capital, planning advice, and long-term know with favorable interest rates;
- Indigenous Tourism Association of Canada provides grants for Indigenous tourism companies, particularly those seeking international clients; and
- Joint Scononic Development initiative provides fanding and programs for Indigenous economic development in New Bronewick.

AFF Canada, 2018. QBA with Paul Theppil, CRO of Indigenous and Marthers Allaies Canada.

## **Government of Cenade Support**

There are several government programs specifically for indigenous hadness financing and support.

- <u>Community Opportunity Readings</u> supports indigenous communities seeking or pursuing economic opportunities, such as for associated feasibility studies, marketing, or legal feas;
- <u>Entropronounship and Business Development Fund</u> is an Indigenous business establishment and development funds specifically for the three territories;
- Lancis and Economic Development Services Program provides funding for Flast Nations and Instit communities to pursue economic development and address reserve land and environmental management;
- Northern Participent Funding Program being indigenous peoples and northerness effectively
  participate to impact assessment review for major infinitrative and resource extraction propagais;
- Aboriginal Business and Entroproneurship Development is a federal Indigenzes business development fund administered by 14 of the Indigenzes-owned Aboriginal Financial Institutions timoghout Canada, which are themselves coordinated by NACCA;
- Indigenous Growth Fund (NACCA) will allow AFIs to provide more know to Indigenous startups and Indigenous businesses;
- Funcing for indigenous Economic Development Ontario provide funding for Indigenous business and economic development in Ontario;
- Indigenous Business Development Services provides funding for Indigenous business development in Mentales, and
- The <u>Export Financing</u> web page lists a wide variety of federal and provincial level funding programs.

The Tanle Commissioner Service also offers various funding programs in support of exporting and immution.

#### Espart

Confispent is a federal program that provides framcing for exploring foreign markets for experience. Several business activities are eligible for financing, including target market visits and trade alarse.

- Confequent SNUs provides financial assistance to Consider registered small and medium-shed enterprises to help them develop expect appartanities for their product or service in new international markets. The Agrillarizating Program SMEs Component supporting international promotion and market development attivities in the agriculture and agri-food sectors is new part of ConExpect – SMEs;
- <u>Canisport Community Insertments</u> provides support for communities looking for foreign direct investment;
- Canisport Amodations allows: Canadian national trade argumbations to access up to \$400,000 in amount funding to cover up to 75% of the cost for new or expanded international development activities; and

 <u>Confequent - Innovation</u> allows Consider Innovators who also to connectable technology to access up to C\$75,000 in funding to establish new R&D callshautions with famign pertners to co-develop, withinte, or adapt their technologies for connectalization.

#### in a sector

Canadan international innovation Program supports collaborative industrial R&D projects with
potential for commercialization between Canada and five countries (Bondl, China, Indla, Israel, and
South Kana).

### Export Development Canada Resources

#### Managing siaks:

- <u>Condit Insurance</u> protects against compagation;
  - EDC Select Coult Insurance will cover up to BU% of losses to case an nonpeyment;
  - Particulo Credit: Insurance: will cover up to 90% of losses in case on nonpayment; and.
- <u>Parformance Society Insurance</u> businesses can use this service if these is a concern that the customer will call a guarantee.

#### Seconding firmmeting:

- Buyer Financing being provide a competitive financing package as part of a sales plick to foreign customers;
- Direct Londing is financing to sell into markets outside Canada;
- Structured and Project Finance provides project financing for various international operations; and
- Purchase Order Francing covers up to 90% of purchase order financing and supports cash first.

#### Growing working capital:

- Expert Guarantee Program provides a guarantee to companies' financial institutions, encounging them to apparet foreign ventures;
- Account Parformance Security Guarantee lasters letters of guarantee without using your cash or capital and puts up a 100% guarantee to your bank;
- <u>Familyn Exchange Facility Guarantee</u> prevents having to use collateral for foreign exchange contracts, freeing up cash, and
- <u>Sundy Rend Insurance</u> provides easier access to contract or performance bonds.

## Additional Canadian Financing Options

- Business Development Bank of Canada provides framcing options, including for SMRs. Businesses can apply colline for financing options for a wide variety of projects;
- <u>Canadian Commential Corporation</u> beips companies doing husiness abrand, especially those pursuing contracts with favelen governments;
- Invertment Agriculture Foundation of British Columbia can assist IC agriculture and agri-food experience; and
- <u>Eukurprometer Canada</u> is a non-profit that provides financing and logistical support and mentorship specifically for Canadian youth (ages 18-39).

### Canadian Banks with Dedicated Indigenous Banking

- BDC indigenous Entreprensur Progress and Resources
- RBC Abariginal Banking Programs and Services
- TD Indigenous Benking
- BNO indigenous Benking
- Scotlabenk Services for Aboriginal Peoples
- CBC indigenous Benking
- <u>Vendity indigenous investments</u> (focus on BC)
- Me-Dien Credit Union (focus en Manitaba)
- <u>National Aboriginal Capital Corporations Association</u> (NACCA), a network of Abariginal Financial Institutions throughout Canada.
- First Nations Bank of Canada
- Reven indiganous impact Fund\_
- Pance Hills Trusk

### International Financial Institutions

International francial institutions have large social and exmounts development programs. They can
play an important rule in francing and supporting indigenous businesses who work with emerging
exponenties, including assistance with funding, advising, and establishing development projects.
International financial institutions include the World Bank, which Caunda is a partner with, and the
regional development banks listed below. Caundian membership with these banks provides access
in procurement contract opportunities through projects funded by the banks. To learn about such
procurement opportunities, contact Caunda's <u>Offices of Union</u> with International Financial Institutions.
(OLIF) at the banks listed below.

#### World Bank (and Inter-American Development Bank)

OLFI Washington Ma. Camiya Codatore Tasle Commissioner Tatle (202) 448-6415 Camiya Cusimonali nia mational go.ca.

Ms. Jolle Mann. Tasle Commissioner Assistant Tel: (202) 682-7788 Julie Mannitiniemational.gc.co

Asian Infrastructure Investment Bank

OLFI Beijing Ma. Litten Zhou Taske Commissioner (Linkson with the AID) Tel: (86-10) 5139-4115 UII.Zhouffiningariional.gc.co

#### Asian Development Bank

OLIFI Manila Mrs. Meng Lois Lellinc: Trade Commissioner Tel: (011-63-2) 657-9099 Manglulu Lebiancill nismations Lgr.co

Ma, Lina Pollan Tasia Program Assistant Tak (111-63-2) 657-9131 Ina pullanilinternational.gr. ca

## 11: Industry and Logistical Information for a Successful Asia Pacific Business Strategy

- To inform your Asia Pacific business strategy, find information on Canadian industries <u>here</u>. APF Canada provides industry information with <u>these</u> <u>publications</u>, the <u>Investment Monitor</u> tool has key investment information in several industries between Canada and the Asia Pacific, and the <u>APEC</u>. <u>MSMEs</u> website has similar information. You can purchase access to tools like <u>IBIS World</u> and <u>Frost and Sullivan</u> that provide comprehensive industry information, and <u>Mint Global</u> that provides company data, which may be available for free if you are a member of an academic institution;
- You can find access to US and Canadian suppliers, manufacturers, and distributers at <u>ThomasNet</u> and international suppliers and traders of all types of products and services at <u>Wand</u>;
- Country information can help you to understand the trade and investment risk of different countries and sectors based on measurements like political stability, economic data, and cultural trends. Country information can be found from free services such as <u>Export Development Canada</u> (EDC), the EDC <u>Global Export Forecast</u>, and the Trade Commissioner Service <u>Country</u> and sector information for international business. More information is available from <u>CountryWatch</u> (paid), <u>Co-face</u> (free), and more in depth information can be found at the <u>World Bank e-Library</u> and the <u>OECD</u> iLibrary (paid and free options);
- The Port of Vancouver's <u>Moving Cargo</u> and <u>Terminals and Facilities</u> resources can help you with the logistics of getting your products to Asia. Other ports such as the Ports of <u>Halifax</u>, <u>Quebec</u>, and <u>Prince Rupert</u> also have informative websites;
- The <u>Canada Business Network</u> can also help with logistics and provides links to other organizations that offer logistics information; and
- Here are some links to information on different industries in various Asian countries:

China, Korea, Southeast Asia, India, Japan, Taiwan



#### Harmanhed System (HS) Codes

All governments use a system to categorize the imports and expants of their country. Most of the world uses the Harmonized Countedity and Coding System, also known as Harmonized System Codes. You may have to find the HS code if you are seeking import or export information. All gunds are assigned a six-digit classification code, where the first two digits refer to the product category, and the next four to alk digits refer to the product category, and the next four to alk digits refer to different subcategories. Different countries can then add digits, up to 10 total, for more specific products. For example, using the <u>Canada Post H5 Code total</u>, if you put in Singapore as a destination and lentils as your product, the tool will ask you a few questions and then display 0713.40 as the HS cade information. You can put that code into Canada's <u>Tariff Finder</u>, which has tariff information for countries with which Canada has a free total exporting or importants. You can also use the Tariff Finder itself to find which tariffs (if any) apply to the product you are exporting or importing. Otherwise, you can use Canada's <u>tariff information by country</u> website, which has more countries.

## 12: Dealing with Asian Governments

Desiting with different governments and foreign businesses can be difficult. This section provides information, on how to do so.

## Protecting Your Intellectual Property (IP) and Traditional Knowledge (TK)

See <u>IP Beyond Our Borders, Intellactual Property for Exporting Businesses</u>, and <u>Protecting your Intellectual</u> Property Rights in China for Information on protecting your IR

In addition to typical business 10, traditional incovietige is important to indigenous peoples. 'IX provides valuable social and emmemic centrifuctions and about he protected just as well as IB Examples of TK include indigenous peoples' understanding of their local ecosystem, such as migration patterns, incovietige of how to make activate or taols; and cultural materials like sample or symbols. Easentially, indigenous peoples have some rights over what they know, have known, or will know, just like a technology company might know how to produce a certain product and have the right to use that incovidege and have it protected. 'TK is often crockal far indigenous peoples' subdistance and survival and may be crockal far indigenous businesses to protect in global markets because it is a practicle competitive advantage (e.g. mathemic indigenous products and/or service), and because there is often a sacrainess of TX or cultural expression that has been provided from ancestant and passed on through generations, and is to be protected for fature generations. For more information, see the World Intellectual Property Rights golde, Protect and Promote Your Culture - A Practical Guide to Intellectual Property for Indigenous Peoples.

#### Governments and Business Law

The following guides provide information on the case of doing buriness and huriness law:

Hang Kang, India, Indonasia, Japan, Karee, Mangalie, Philippinas, Singapore, Talwan, Theland, Vietnes,

### **Risk Assessment**

Rezonant: Development Canada provides the <u>Country Risk Countarty</u>, where you can learn about the risk of daing business in different countries, and <u>Managing Risk: A guide for coportum</u>, where you can learn about managing risk.

### Benefiting from Trade and Investment Agreements

Trade and Investment agreement information relevant to different Ada Pacific countries is provided by the Government of Canada.

## 13: Asia Cultural Guides, Basic Phrases, and Additional Government of Canada Resources

These resources can help with cross-cultural business cansiderations to help you prepare before going to Asia. and to prepare for visits from Asian stakebalders.

## Asia Pacific News

Asin Which is a five subscription offered by APF Canada that provides the intest analysis of news, trends, and happenings in the Asia Pacific tasse times a week.

### Cultural Guides

Chine, Hong Kong, India, Indanesia, Japan, Koma, Mangola, Philippines, Singapore, Tahuan, Thailand, Metham

### Basic Phrases

Chine (Mandache), Hong Kong (Cantonese), India, Indonesia, Japan, Konsa, Mongolia, Philippines, Takana (Mandache), Thaliand, Vietnam

Canadian Post-Secondary Institutions with Asia Pacific Related Centres

- Devid Lam Centre at Shape Franz Debready (BC);
- Centre for East Asian Research at McGill University (Quebec);
- York Centre for Asian Research at York University (Ontario);
- Asian institute at Nunk School of Global Affairs at Deliverity of Taxonte (Ontario);
- Institute of Asian Research at Deliveraty of BC (BC);
- <u>Chine institute</u> at University of Alberta (Alberta);
- Asian Studies Cantre at University of Manitolus (Manitolus); and.
- Centre for Asia-Pacific initiatives at University of Victoria (BC).

Government of Canada Country-Specific Resources

Chine, India, Indonesia, Japan, Koraa, Mongolia, Philippines, Singapora, Thailand, Vietnam

## 14: Current Indigenous Economic Development Practices

## Practices and Approaches to Indigenous Economic and Business Development

The Public Policy Forum's report <u>Realizing The Potential: Global Perspectives on Indigenous Economic</u> <u>Development</u> summarizes good practices of Indigenous economic development from 11 Canadian and global case studies:

#### Consolutions

- Batabilab relationships as early as possible.
- Separate politics and business
- Develop and establish good governance armogeneeuts

#### **Broader Economic Impacts**

- Make financing accessible and tailaned to indigenous entrepresensably.
- Establish joint ventures to kelp build repacity
- Levenge partnerships with other commonities

#### Community Engrgement

- Intert in direction training and education programs;
- Create pathways from achool to jobs
- Develop long-term community plans, including a strategy for royalties

This is the report's summery of principles for successful development:

1	Establish and maintain productive, mutually respectful relationships.
2	Be proactive in driving Indigenous economic development as a priority.
3	Understand culture, land rights, and historical treaties when considering business opportunities.
4	Strive to achieve standards that surpass laws and regulation.

#### 5 Understand the potential social and environmental impact of projects.

- Ensure that business opportunities make sense from a commercial perspective and benefit everyone.
- Build long-term sustainability into agreements: focus on the capacity to benefit future generations.

### The Indigenous Approach to Economic Development

#### Accurding to Anderson and Kaysens, two Canadian academics who have done significant work on Indigenous second: development:

The Aboriginal approach to economic development is a predominantly collective one centered on the community or 'nation' for the purposes of:

- Ending dependency through economic self-sufficiency. 1.
- Controlling activities on traditional lands.
- Improving the socioeconomic circumstances of Aboriginal people.
- Strengthening traditional culture, values and languages (and the reflecting the same in development. activities).

#### Involving the following processes:

1. Creating and 2. Forming alliances operating businesses and joint ventures among themselves and with nonlong run in the global Aboriginal partners economy to: to create businesses that can compete profitably in the

- activities on traditional lands
- End dependency through economic self-sufficiency.

global economy.

Building capacity for economic development through:

a. Education, training and institution building and

b. The realization of the treaty and Aboriginal rights to land and resources.

Strengthening bonding and building social capital.<sup>11</sup>

<sup>12</sup> Anderen, Robert and Rob Keysen. 2018. Initiative concentritie, interpretentiality, and scenario, development in the new economy. 1545H 206 Personings, p. 25.

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## Additional Indigenous Business Development Tips

- 1. Any convension on indigenous entropreneurship may benefit from inducing community perspectives and social objectives. Entropreneurship can be a "multi-objective" endeavour, where achieving both social and economic objectives is possible. The lines between the two are aftern blarned in the indigenous community. What makes a group indigenous is often, though not always, conducive to a more communal approach to entropreneurship. Connecting to the global economy is seen by many as the key to indigenous development, and development in turn is seen as a key component of reconciliation. Entrepreneurship can be the individual level, but also the communal level, for the indigenous community where development component af a soccessful indigenous vertice [may] require[s] dual leadenships a cultural authority and a practical "land driver." ... [C]ultural authority provides reassurance to every band member that these enterprises are compatible with the aspinitions and traditions of the band." Someone is also required to "translate intertions to actions."
- 2. Caraider how indigenous governments and development corporations act as mediating structures. Development corporations support bridging to external economies, and governments facilitate a positive aucial emiranment, reducing conflict and increasing banding within the community. Together, these structures can enable communities to opt in to the global economy.<sup>14</sup>
- 3. Consider differences and similarities between indigenous economic development and classic economic development. Indigenous economic development includes indigenous values and autial, environmental, historical, and cultural canciderations, whereas classic economic development focuses on land, labour, and capital. These differences provide both challenges and opportunities for entering Asia Pacific markets.
- 4. Consider pros and cone of starting your business on reserve. Starting a business as a sole proprietorship on reserve any have tax benefits, but could limit future growth by reduced access to formal and informal equity capital.<sup>10</sup>
- Fun for business inscirable succession. "The dusability of a successful indigenous venture is potentially more values bie to generational change than is underteam enterprise."
- 5. Remember that starting a business is just the start and that change and growth may take time. "For an indigenous venture, change [may] be even basker than creation." For example, this is aften the case in situations when the correct business decidon is to cause an enterprise but there is significant pressure to maintain jobs or a positive image within the community." The following figure lists obstacles to growth for expecting and non-exporting indigenous businesses.

<sup>&</sup>lt;sup>27</sup> Anderson, Robert, et al. 2016. Concentries to the global accessive alone accident in Language autoperson make and . Interpresentative as Social Changer & Tatal Movements in Interpresentably Book. Hillard by Chein Steparst and Daniel Hjorth. Mound Figure Publishing.

<sup>=</sup> Bindle, Kreis et al. 2015. Relating practice to theory in foligeness antegrate sublight A pilot investigation of the Kinele partnership particular American Indian Quarterly 29 (1-2): 13-14.

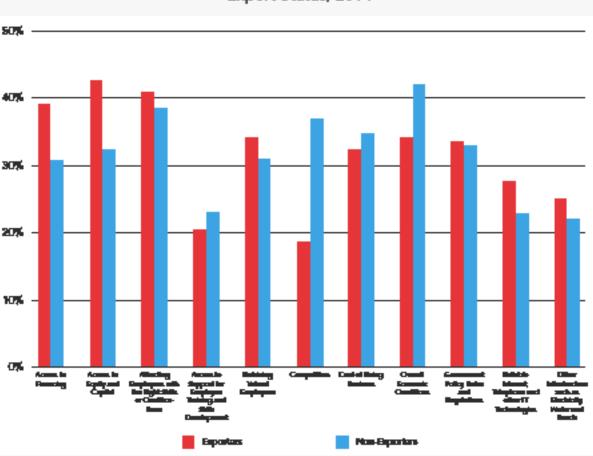
<sup>\*</sup> Anderson, Robert and Rob Express 2018, ep. clt.

<sup>-</sup> Manima Hangs, 2008. Manibastan Piert Ration Indigenous purple eccending as antegeneers. Journal of Estrephing Communities. Purple and Recents the Cabin Homony 2(2): 140–150.

<sup>™</sup>Banda apat.p.14.

**<sup>- 15.16</sup>** 





Reported 'Important' and 'Highly Important' Obstacles to Growth by Export Status, 2014

Source: Audrey Bélanger Baur (2019), <u>Indigenous-Owned Exporting Small and Medium Enterprises in Canada</u>, Global Affairs Canada & Canadian Council for Aboriginal Business, p. 33

7. Having higher levels of education, more experience, and a business plan will believe expert success. The 2019 GAC-CCAB report found that a university or post-guidante education increases the proportion of experience is a non-experience, that SME owners with more than 10 years of numegraphic experience are more likely to expert and those with under 5 years of experience are much less likely to expert, and that having a business plan makes it almost 10% more likely that an indigenous enterprise will expert.

## 15: Engagement Strategies of Previous Indigenous-Asia Stakeholders and Indigenous Global Business Examples

The following bulleted lists provide specific recommended actions developed by an indigenous regarization metions to increase engagement with Asia.

## BC First Nations Energy and Mining Council <u>China Strategy</u> Recommended Actions

- First Nations Capacity Building pertnering with provincial and federal governments and foreign universities to improve capacity and engagement ability;
- Promote opportunities for engagement with China interests annual ariselens to and from China, developing formal and informal relationships with Asian organizations and associations in Canada (such as the Asia Partie: Foundation of Canada);
- Batabilish a Claime Deak to assist First Nations to seepond to and develop business opportunities will help access markets, promote products, understand opportunities, and connect with investors;
- Develop best practices for engagement to promote adequate consultation and collaboration, advice for negotiating mining agreements;
- Repard success opportunities for Fluxt Nations in Claims Exploring specific opportunities in forestry and tourism, seeking federal funding support;
- Approach the provincial and federal governments to discuss and develop matual benefits/upportvolities

   promoting specific working groups and initiatives; and
- Create a unified manage branding to ensure inclusion of First Nations peopler, ensure needs and desires are beard, with specific plans to communicate to various levels of business and government in Ormeda and Orine.

### BC First Nations Energy and Mining Council Japan Strategy Recommended Actions

- Conduct a First Nations trade mission to Japan;
- Remains a column exchange with the Alou people;
- Develop programs to faster Asia competence in First Nations youth;
- Bogage in dialogue with Japanese counterparts to create understanding of First Nations;
- maxikes, inditions, and norms, and
- Build consensus with stakeholders and develop and adapt a First Nations strategy on Japan.

## Indigenous Globel Business Examples

In addition to a variety of new services, the Trade Commissioner Service has collected a variety of indigenous expanding and importing soccess startes on its <u>Spatight on Inclusive Trade – Indigenous Rusiness</u> web page. The TCS highlights the importance of free trade agreements, particularly the Canada-Rompson Union Comprehensive Resonant: and Trade Agreement (CEDA), as an important factor for all the examples. Briefly, they include:

- Glooscap Ventures, a Glooscap Plant Nation community-owned group of businesses, imparts Greek feta cheese for use in other products through its partnership with the Greek chersenaker IIIa Gourant. Their partnership is based on alared social values. This story bigblights how partnerships can provide unique opportunities and can be strong when they are based on alared values.
- Arctic DAV is an Indigenous-owned, Iqainit, Nonarot, based business that provides Ummarned Aerial Webkie services such as photography and videography. They recently went global by opening an office in Greenland, which provides them easier access and expecting to other European markets. This example shows that establishing a physical presence, when done strategically, can ease the process of accessing new markets and is often a smart first step when globalizing;
- Little Miss Gournet Products Inc. is owned by Indigenous businesswerum Rilen Meinseky of Estatemic First Nation. Size discussed how the TCS helped her begin supariting. This story highlights the importance of the TCS. Ellen second even reaching out and letting them know you may be interested in exporting; and
- Okusha Equal Source is a global consultancy with offices in Canada and Australia and clients assund the world. It is focused on Indigenous-owned enterprises and sucial, composit, and covingmental impact. It is 100% owned by Anishimathe, Kanten'induktion, and Marri Indigenous peoples. This stury highlights the possibility of partnering with Indigenous nations assund the world with shufler goals. There are indigenous enterprises amond the world that have the same needs and desires, particularly the large need for business development activities from the local to the global level.

## 16: Examples of Shared Indigenous-Asian History, Culture, and Values

Cross-cultural aspects of global business can improve or decrease the quality of partnerships and chance of success in business. It is, therefore, important to understand the cultures, histories, interests, and values of people (non-indigenous and indigenous) and markets of the Asia Pacific, of which there is great diversity.

## **Cultural Dimensions**

There is a large ansaut of cultural diversity among the non-indigenous and indigenous people in the Asia Pacific. At a brand level, these are some similarities, such as the importance of relationships, and values such as community, long-term thinking, and patience, in business and life. Business destings that address cultural similarities can quickly establish deeper relationships, a feat that is otherwise difficult in the fast-paced world of business.

#### indigenous Works states some characteristics of traditional holigenous culture as follows:

- Community is the foremost of all values;
- The future tense is dominant;
- The world is understood mythically;
- Goals are met with patience;
- Gifts are regarded as social glue;
- Work is often motivated by group need;
- Aging is a source of wisdom;
- Eye contact is thought over-assertive;
- Assertiveness is non-communal;

- Listening skills are prized;
- Soft spoken words carry farthest;
- Nodding signifies understanding;
- Handshake is soft, signalling no threat;
- Collective decisions are consensual;
- A faith in harmony with nature;
- Family is extended family; and
- Responds to praise of the group.

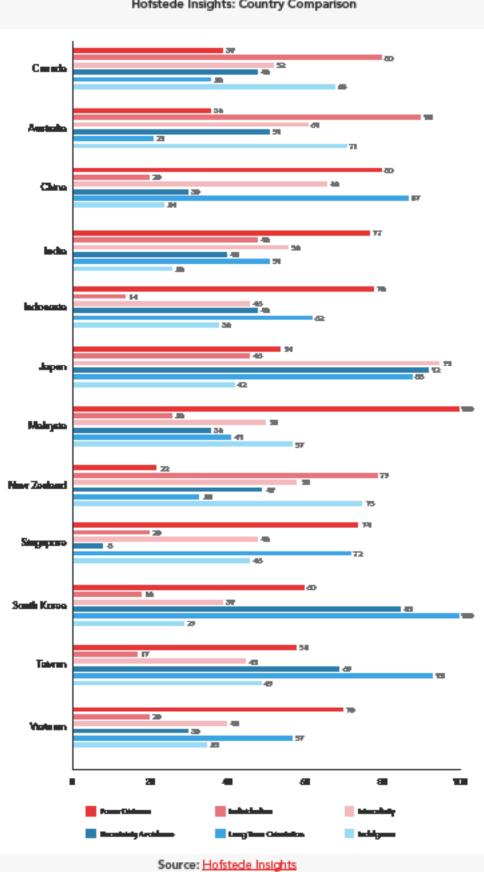
Upon a review of values presented in Abariginal communities across North America, Officiary-Anishimabe elder Jhn Damont asserted that there are seven primary traditional values: kindness, honesty, alaring, strength, buswery, wisdow, and bumility.<sup>44</sup>

Cultural dimensions, known as <u>Hofrinde's cultural climensions</u>, have commonly been used in International business literature, and are often used to compare the cultural orientations of different countries. Using

• Newbown, David. 2011. Modern Alexington screening: Capitalium with a red face. Journal of Alexington Research: Development 1(2): 58. Originally in Junes Duncast. 1998. Justice and Alexington Propin. Montginal propiles and the justice system: Report of the Rational Record Table on Alexington Justice Learns. Othere: Royal Commission on Montginal Respire, pp. 42-85. Hofsterle's dimensions, indigenous cultures across eight countries have been generalized to have high collectivism/low individuation (meaning indigenous peoples are more likely to work ingether and less likely to whoe individual achievements), low power distance (meaning indigenous peoples are less likely to have a bleamhical argonization, where decision-making and power are clearly given more to certain people and less to athers), low uncertainty availance (meaning indigenous peoples are more likely to embrace uncertainty), and high featiminity/low meculinity.<sup>10</sup> Figure 8 compares the cultural orientations of some Asia Pacific countries for reference. Several countries have cultural shuffertiles to generalized indigenous people's cultures, but it should be noted that these scares don't represent indigenous populations, and the indigenous cultural dimensions used along are based on eight countries.

<sup>22</sup> Mashay, Nosl. 2015. Records calcurated and all of Indigenous anterpresential attitude. Academy of Machening Science Texture 5.

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Hofstede Insights: Country Comparison

## Shared Canada-Asia Pacific Indigenous Experiences

The following historical accounts provide information on how indigenous peoples have a long history of shared experiences, culture, and hardships, that can provide a base for meaningful engagement in business.

#### **Historical Columbal Putterns**

Details and timelines differ, but <u>extended experiences</u> were often similar across indigenous nations in Canada and the Asia Pacific, including Japan, Tahaon, New Zealand, and Australia. Similarities include systemic discrimination and oppression, forced relocation, assimilation, the separation of children through work programs or residential schools, and the resulting increase in negative cutzaness such as powerty and incremention and decrease in positive outcomes such as higher educational attainment or bealthy iffestyles. These shared historical injustices led to a shared presence in global movements for indigenous rights, leading to national and international recognition of rights, for example through UNDRUR This led to the new-shared presence in the global movement for indigenous business, for example with many states and indigenous peoples collaborating to support indigenous business, including through state indigenous business strategies, trade missions, and actives in trade agreements.

#### Asia Pacific Cultural Affinities

- The <u>Pacific Peoples Parinemilp</u> works to support callaboration on issues of Indigenous peoples in the South Pacific and Canada. People around the Pacific share many similar cultures and concerns.
- The <u>Asin indigenous Paopies Pact</u> is a regimel organization focused on premoting rights and issues of interest and relevance to indigenous peoples in the region.
- The <u>Asia indigenous Women's Network</u> is a regional organization that promotes the rights and inves of interest and relevance to indigenous women in the region.
- The <u>Asia Young indigenous Peoples Network</u> is a regional eigentestion that promotes the rights and issues of interest and relevance to indigenous youtk in the region, particularly culture, selfdetermination, the environment, and bonan rights.

#### Current Canadian Indigenous-Asia Pacific Indigenous Relations

Micri-Canadian Indigenzos Connections

- Three Miled representations participated in a cultural exchange with the lowit in iquicit to early
  2019, with bapes of furthering cultural ties for the purpose of learning from each other and inspiring
  candidence to participate to their traditional cultures. There are many examples of such cultural
  exchanges.
- The Dairently of Northern British Columbia provides a gran-cultural indigenous incertedge exchange with the Marci, and the Dahrently of Otaga provides similar exchanges for Marci. Marci from the Dahrently of Contentury visited members of the <u>First Nations Tax Commission and Take Centre of</u> <u>Indigenous Sconomics</u> in 2016 to generate relationships and ideas for tax planning and economic development.

 A Canadim Indigenous business delegate travelled to New Zealand and met with Miteri people to 2018 during the <u>World Indigenous Business Forum</u>, and Canadim Indigenous and Miteri delegates travelled together and had meetings on a <u>trade mission to China</u>. The <u>Trade Commissioner Service of Canada</u> has been actively working on Indigenous-Miteri business opportunities in New Zealand.

Tahan Aburighte-Canadim Indigenzus Connections

- In June 2015, a 10-person delegation from the Tahaan Council of Indigenous Respire met with Indigenous argumbations around the country, including the <u>First Nations Tax Commission</u>. The delegation shared to learn about economic development and financial practices on searce.
- A Memorandum of Understanding was signed between the <u>Canadian Trade Office in Taipel</u> and the Tahaan Cruncil of Indigenous Peoples on Indigenous catopention in 1998, and renewed in 2008. Such catopention includes culture, health, education, pulicy, and economic development.
- Tabien beld an <u>international indigenous economy forum</u> in 2018 that included, among many other countries, Canadian delegates.

#### Japan Max-Canadan Indigensis

- Delegates of the <u>Métic Nation visited several Airu organizations</u> and discussed the Métic people in Jupan during 2013.
- Jepun and Canada have many "twin" citize, established to promote relations between the two
  countries. These twin citize after have indigenous cultural components including exchanges and ext
  callaborations of the Also and Canadian Indigenous peoples.
- These have been various cultural exchanges with the Aloo, including with the <u>Tingle people of the</u> <u>Yukon and BC, Simon Frazer University</u>, and some through the <u>University of Manitoba</u>.

#### Australian Abarigine-Canadian Indigenous Connections

- There is an Indigeneous-Indigeneous exchange program offered by the <u>University of Victoria and the</u> Wollotake Institute in Australia, and the Dolwessity of Beltiak Columbia provides the Indigeneous-Indigeneous <u>Australia Londonbia Program</u> exchange with St. Cathertoe's Residential Dolwessity Callege. There are other examples of cultural exchanges with <u>Theoryzon Result University</u> and In.art.
- Delegates from Canada and Australia surt at the 2015 World Indigenous Business Forma.

## Indigenous-Non-Indigenous Asia Pacific Relations in Canada

 Chinese visits to Canada were first recarded in 1788 to Nootia Sound, BC, but there exists evidence of Chinese trade with Indigenous peoples predicting that time by centuries. In 1858, Chinese bundgrants arrived in large numbers in Vancouver, where they faced dangenous working canditions on the Canadian Pacific Rainand and treatment as second-class residents. This status was reinforced by the Canadian government's Oblane bundgrant Act of 1885. The Act enforced ever-increasing head taxes on the Chinese people. The updated 1923 Act entirely banned Chinese humigration, with some special circumstance esceptions, giving it the nickname of the Chinese Exclusion Act. Families have been down between the act and treatment of Chinese people in Canada with the Julian Act of 1876 and treatment of Indigenous peoples.<sup>22</sup> The Canadian government issued a formal spalogy along with some symbolic payments to surviving land-tax payers in 2006.

Japanese immigrants have lad shufar experiences in Canada, including in Steventon, BC, and along the BC canot. Japanese people likely snet First Nations people for the first time in 1877 when the first innova Japanese anigrant came to Canada. Relations moved from lostile to friendly as Japanese and Indigenous peoples recognised their shard discriminatory treatment. The paraminent fishing industry along the Pacific canst that employed many First Nations people soon employed amore Japanese rather than First Nations people soon employed amore Japanese rather than First Nations people. The Canadian government attempted to find: the number of Japanese introgrants. Japanese people held many jobs previously held by First Nations people, such as in the town of Steventum that lad a large canning industry. During the Second World War, the Canadian government interned 22,000 Japanese Canadians and stripped them of their belongings and property.

After the eriction and intermment of Japanese Canadians by the Government of Canada during the Secand World War, greater understanding developed between the two populations. An important symbol of this is the Niskga Girl, a fishing beat built in 1967 by the Japanese-Canadian bant builder Judo Tamin and given to the Nyce family of the Ningda. Nishga Girl symbolizes the throughds of fishing beats that were confecuted by the Canadian government from Japanese-Canadian fishermen during the intermment period. The Nyce family had tanght Tasaka how to build beats, allowing his family to became financially independent again.<sup>24</sup>

After the Second World War, First Nations people began advocating for Japanese Canadian reduces, including an apalogy and compensation, which was eventually achieved in a 1986 agreement with the Canadian government.

- In Groupy Narrows, Ontarie, an Indigenous community began suffering from memory poisoning, a debilitating and lethal disease, around 1970. After initial research, Canadiana paid little attention to the community's experiences despite orgoing effects. A Japanese research team, that first arefved in the community in 1975 has continued their research and outreach to the present. Over 100 people died of mesoary poising in Minamata, Japan, during the 1950s. One of the Japanese scientists who arrived in 1975 made the first diagnosis of burnan effects, years after Canadiana were more of the invoe, after hearing about a "mini-Minamata" from a Japanese photographer. He made over 100 diagnoses and identified dozene more suspected cases of paisoning. Canada has still not recognized any Minamata disease cases. Aboust five decades later, the Japanese research team continues to use their experience to help indigenous Canadians and advance our understanding of industrial affects on our food chain.
- Similarities have been domen between "threast games" of the Almo (an Indigenous people of Japan) and the host, leading to a hypothesis that there was cultural diffusion from the Almo of Northeast Asia to the host of North America.<sup>20</sup>
- In the axid 20th century, the Instit people of Canada, specifically in Cape Dozent, adopted the Japanese printmaking style. The style has had a significant impact on host art.

BC Flat Nations Energy and Mining Council up. dt. p. 8.

<sup>= 10</sup> Next Rathes Rangy and Mining Council and 197 Canada. 2014. Theories I Plat Hallow Japan Stalogy, pp. 1–2.

<sup>&</sup>lt;sup>27</sup> Jens-Jacque Nattice, Juns-Jacque 1983. The Raidmines of the Aim. (Japan) and the Katajim of the basit (Canada): A comparison. The World of Infant: 25(2): 33–44.

## Indigenous-Non-Indigenous Asia Pecific Relations in Asia

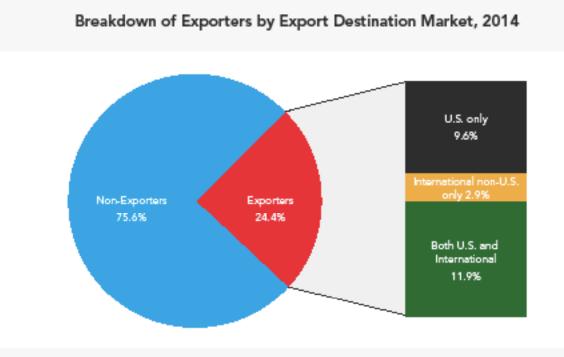
- The **ICFNENC** has highlighted the cultural affinity between Plot Nations people and Chinese people using the example of cultural exchanges, such as the gifting of a totem pule after the 2008 Wenchum earthquake for the lives lost and the Pour Hest Plot Nations cultural exchange during the Beijing Ohympics. They also emphasize relationships built from historical discrimination and oppression by the IC and Canadian government, mutual support, sequect, and shared values such as traditions and mappeting elders.
- Government, business, and analemic relations in China have been established by Gomi Chief Edward John and the <u>BCFNEMC</u>. This includes interaction with the China Association for Intercultural Communication at Beijing Foreign Studies University, the sixth annual Canada-China Energy and Environment Parum, and meetings with Canada's ambassadar to the People's Republic of China, Consul General of Orina to Canada in Vincouver Liang Skogen, Ambassadar of China to Canada Zhang Jonesi, Chinese banks, and mining and forestry companies.
- The Yhim Dene Aliance, consisting of five First Nations from northern B.C., sent a letter directly to Chinese President (for Jintao in February 2012 in an attempt to create their own publical connections, with the aim of preserving their lands from oil pipeline development without their involvement. The letter calced indigenous issues including resistance to the northern gateway pipeline, in an attempt to add the issue to the agenda of a meeting between the Chinese leader and the Canadian Prime Minister shortly thereafter.<sup>20</sup> The aliance has also directly reached out to gavernments in Japan, South Kores, and the Dulted States and members of the Razopean Ardiament to mise issues of cancern.
- The Airu, an indigenous people of Japan, also share a shaller history with indigenous peoples in Canada. Policies as far back as the 180% aboved to assimilate the Airus people and two them into Japanese style formers. Like the indigenous peoples of Canada, they had no legal recognition as an indigenous people, were stripped of their cultural and ancietal elements, were nationally controlled, and only in 2008 did the national government officially seregoise the Airu as an Indigenous people. Beyond support for task invalues revitalization and tracks. (e.g. <u>1997 Airu Cultural Promotion</u>. Protection Act, 2019 Airu Promotion Act), Canadian-style reconciliation remains a long way off.

## 17: Trends of Indigenous Participation in Exporting Industries

The figures in this section show trends in Indigenous participation in experting and industries from a 2019 GAC-CCAB joint study that may belp with understanding where current apportunities exist and what Indigenous self-employed entrepreneurs and SMEs are more likely to export.

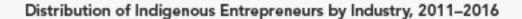
The study found that the percentage of Indigenous-owed SMEs that export (24.4%) is higher than the national average (11.8%). While the report noise curvests about the accuracy of the numbers due to the small and select amopie size, the numbers are still worth noting.

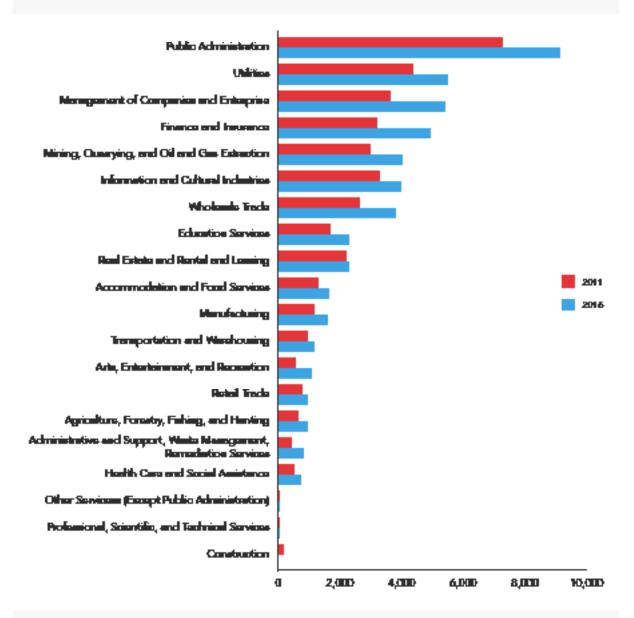
#### Figure 9.



Source: Audrey Bélanger Baur (2019), <u>Indigenous-Owned Exporting Small and Medium Enterprises in Canada</u>, Global Affairs Canada & Canadian Council for Aboriginal Business, p. 18

#### Figure 10.

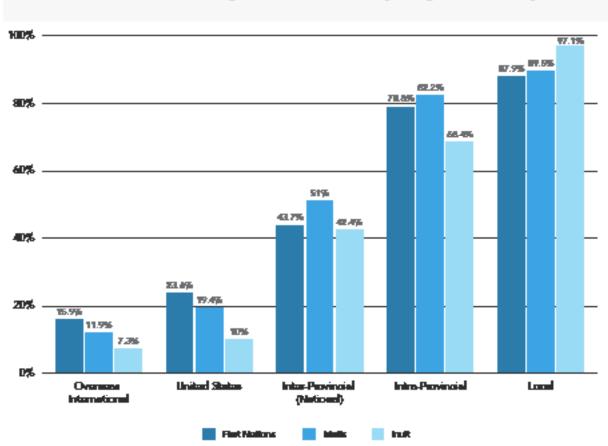




Source: Audrey Bélanger Baur (2019), <u>Indigenous-Owned Exporting Small and Medium Enterprises in Canada</u>, Global Affairs Canada & Canadian Council for Aboriginal Business, p. 12

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## Figure 11.



Destination Markets of Indigenous SMEs' Sales by Indigenous Identity, 2014

Source: Audrey Bélanger Baur (2019), <u>Indigenous-Owned Exporting Small and Medium Enterprises in Canada</u>, Global Affairs Canada & Canadian Council for Aboriginal Business, p. 19

Figure 12 shows the industries (according to North American Industry Classification codes) that indigenous SMRs operate in, the percentage of companies that are exporters and non-exporters, and the propensity of indigenous SMRs in each of the industries in export. The exporter and non-exporter columns alow the percentage of all indigenous businesses that are in that industry and do or don't export (i.e. out of all indigenous enterprises, 3.9% are in construction and export, 36% are in construction and don't export), and the export propensity minute shows the percentage of all indigenous enterprises in that industry that export (i.e. 3.4% of construction enterprises export). This figure shows the industries with the highest propensity to export are:

- Consulting (63.6%);
- Arts, entertainment, and recreation (60%);

- Accommodation and feed services (\$7.5%);
- Memiliaturing (SIL1%);
- Real estate and sental and leading (48.3%); and.
- Retail trade (31.4%).

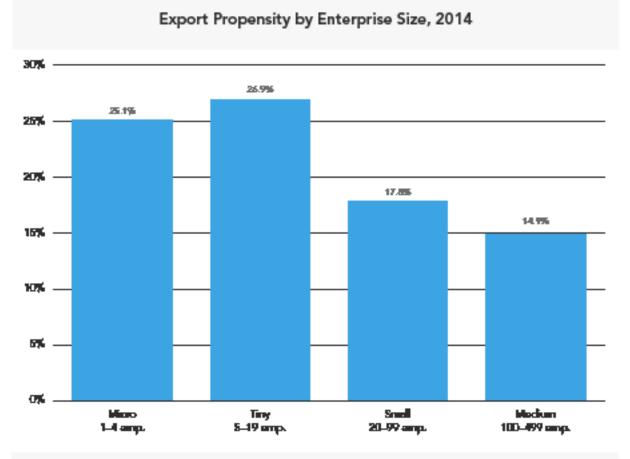
### Figure 12.

Distribution of Indigenous SMEs by Industry and Export Status (%), 2014

	Exporters	Non-Exporters	Export Prop <del>o</del> nsity
11—Agriculture, Parmiry, Railing and Harding	3.50%	350%	24.20%
21 — Mining and Oil and Gas Extraction	5.60%	8.10%	18.20%
27 — Crainnia	26000	36.00%	3.40%
31-33 — Manufacturing	14.40%	4.60%	50.10%
41 — Winimio Trais	2.40%	2.30%	25 SB(6
44 — Retall Trade	17.20%	12.10%	31.40%
42 — Trapertains and Marinesing	A.705	8.50%	20 <b>2</b> (*
51 — Information and Cultural Industries (e.g. publishing, broadcasting, internet)	2.60%	2.10%	28.40%
وضعنا أص أضط أعد ضنانا أعا – 12	4.30%	1.40%	47206
54 — Professional, Scientific, and Technical Services (e.g. legal, accounting, advertising, consulting) "excluding general consulting	13.50%	9.10%	32.40%
55 — Advisitionality and Support, Waste Management, and Remoduling Services.	<u> 101.</u> 2	1.30%	0.0096
71 — Arts, Entertainment and Recreation	5.80%	0.80%	69.00%
22 — Assumediation and Pool Survium.	7.60%	1.80%	57.78%
81 — Other Services	8.50%	8.10%	25.20%
77 — Country (general)	4005	0.30%	81. 1
Total	100.00%	100.00%	24.4%

Source: Audrey Bélanger Baur (2019), <u>Indigenous-Owned Exporting Small and Medium Enterprises in Canada</u>, Global Affairs Canada & Canadian Council for Aboriginal Business, p. 22 As indigenous businesses develop, counter to Canadim SARs and typical international tode theory, they became less likely to expect. This is due to many small (20-60 employee) enterprises openting in construction, and natural resource extention, which are not prone to expecting, and micro enterprises often being located on mercure, where market diversification is a necessity.<sup>24</sup>

### Figure 13.



Source: Audrey Bélanger Baur (2019), <u>Indigenous-Owned Exporting Small and Medium Enterprises in Canada</u>, Global Affairs Canada & Canadian Council for Aboriginal Business, p. 20

If you have access to certain products (e.g. failing in the Atlantic, the resource sectors in Western Canada) or services (e.g. greater access to technology workers in larger cities) and are in an industry with a high propendity to export, it may be easier and more profitable to export. For exporters, according to a CCAB report, "Neachy one third are concentrated in Courses (31.5 percent), over a fifth are located in British Columbia (22.8 percent), approximately one eight are in Queber (12.5 percent) and Alberta (12.3 percent) respectively, and the remainder are distributed across the Atlantic provinces (7.9 percent), Saskatzhewan (6.1 percent), Maritola. (4.9 percent) and the Territories (1.8 percent)."

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<sup>&</sup>lt;sup>2</sup> Minger Kar, Johry 2008. <u>Independence on die politig and and in articplas. In Cande</u>, Ghini Minin Canala & Candina. Council for Abariginal Resistant. p. 20.

## Export Propensity and Five Main Industries, Canadian Regions and Provinces, 2014

Region	Export Propensity	Five Main Industries
Calaria	41.305	Ratal Taxle; Perfanitural, Eduntific and Taximical Survices; Construction; Other Survices; Manufacturing
British Columbia	31.80%	Construction; Transportation and Warehousing; Professional, Scientific and Technical Services; Manufacturing; Other Services
Admits Provinces	an. 10%	Ratal Tarle; Construction; Accommodation and Rand Services, Other Services, Pediantonal, Scientific and Technical Services
Saskatchewan	22.90%	Construction; Retail Trade; Manufacturing; Professional, Scientific and Technical Services; Transportation and Warehousing
Codec	12.60%	Construction; Rotal Trada; Transportation and Wasshowing; Prokasional, Scientific and Traduical Services; Agriculture, Foundy, Fishing and Handing
Alberta	15.10%	Mining and Oil and Gas Extraction; Construction; Other Services; Professional, Scientific and Technical Services; Transportation and Warehousing
Telein.	12.40%	Construction; Tempertation and Washousing, Protonional, Educatile and Technical Services, Manufacturing, Other Services
Manitoba	10.00%	Construction; Manufacturing; Retail Trade; Professional, Scientific and Technical Services; Transportation and Warehousing

Source: Audrey Bélanger Baur (2019), <u>Indigenous-Owned Exporting Small and Medium Enterprises in Canada</u>, Global Affairs Canada & Canadian Council for Aboriginal Business, p. 25

## **Acknowledgements**

#### The authors of this report are:

Dr. Scott Harrison, Program Manager - Engaging Aria, Asia Pacific Foundation of Canada.

Daizzia Norris (Gwich'in Flast Nation), Junior Research Scholer – Indigenzus-Asia Rozinsus Relations, Asia Pacific Roundation of Canada

We would like to thank everyone who provided insights, comments, and suggestions for this guidelands.

## We would like to hear from you.

How can this guide be improved? What kind of information or supports would be helpful for your Asia Pacificrelated business endeavours? Do you have leasons learned ar experiences you would like to share? How can the Asia Pacific Foundation of Canada work with you moving forward?

Context: \_\_\_\_\_\_herrison@using.acfic.cs

## About the Asia Pacific Foundation of Canada

The Asia Pacific Foundation of Canada (APF Canada) is definited to strengthening ties between Canada and Asia with a focus on expanding economic relations through trade, investment, and innovation; promoting Canada's expertise in offering solutions to Asia's climate change, energy, food security, and natural second management challenges; building Asia sidils and competencies among Canadams, including young Canadams, and improving Canadians' general and estanding of Asia and its genering global influence.

Visit APF Canada at http://www.mispachic.cs.





ASIA MACIFIC FOUNDATION OF CANADA

PONDATION ASIE PACIFICIAE DU CANADA

# INDIGENOUS - ASIA PACIFIC BUSINESS RELATIONS ROUNDTABLE Summary Report

February 13, 2019

Offices of the Asia Pacific Foundation of Canada Musqueam, Squamish, and Tsleil-Waututh Territory Vancouver, British Columbia



IGNITING INDIGENOUS - ASIA PACIFIC BUSINESS RELATIONS

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## OVERVIEW

Together, startagic communications firm Creative Fire and the Asia Pacific Foundation of Canada convened a roundtable on how to accelerate indigenous business relations with Asia Pacific markets.

This first-ever meeting between indigenous business leaders and Asta Pacific stakeholders was a first step in establishing strong nation-to-metion trade, marketing, and investment relationships between indigenous Canada and Asta Pacific countries. This report provides a detailed overview of the roundtable and discussion outcomes.

The roundtable concluded with a conservue around the need to recorvere, perhaps in conjunction with the World Indigenous Business Forum in Vencouver, October 2019. The Canadian Trade Commissioner Service is looking to coordinate Indigenous B2B meetings as part of the event.



### OPPORTUNITY

Asia's economic rise is one of the most defining shifts of the 21st century. At the same time, Canada's First Nations are emerging as important economic drivers and partners in the nation's economy.

The roundtable was dasigned to assist indigenous and Asten businesses in better responding to this opportunity by sharing critical information on the opportunities and challenges for indigenous business and tracks with Aste. It focused on how to accelerate indigenous business engagement with the Aste Pectfic and address quartions including:

- How can Asis-interested indigenous businesses and economic development suporations grow their presence in Asis?
- What are the main obstacles and opportunities?
- Where are the opportunities for potential Asian investment, business, or trade?
- How can the Axis Pacific Foundation of Canada and others best support indigenous businesses in these efforts?



## CONVENERS

### Seen Willy, CEO, Des Neche Group



Drawing on his experience as an industry executive and with his roots in the Demesuline and Métis communities, Sean is a bridge builder between indigenous and mainstream businesses across Canada. Within the unanium industry, he is credited with signing five community-based agreements in Australia and northern Saskatcheven and launching a unique community legacy fund, the Ste River Trust. Since joining Des Nedhe in 2017, he has strengthered the company's

network, partneships and standing across Canada, negotiating new ventures and driving growth through collaboration with leading indigenous entities, major Canadian companies, and governments at all levels. Formerly, Sean served as co-chair of the Canadian Council for Abortginal Business, and is currently chair of Northern Carser Quest and director of the Global Indigenous Trust.

### Stewart Bock, President & CEO, Asia Pacific Foundation of Canada



Prior to joining APF Canada, Mr. Stewart Back served as the Canadian High Commissioner to the Republic of India with concurrent accreditation to the Kingdom of Bhutan and to Nepal. He joined Canada's Department of External Affairs and International Tesde (now Global Affairs Canada) in 1982 and served abroad in the United States, Taiwan, and the People's Republic of China. In Ottawa, Stewart held a number of progressively more senior positions, Including

Director General of the North Asia Bureau, Director General Responsible for Senior Management and Rotational Assignments, and Assistant Deputy Minister for International Business Development, Investment, and Innovation. He was Consul General in Shanghai and prior to his porting to India, he was Consul General in San Francisco.





## MODERATORS

### Bonnie Laak and Jason Asbig, Creative Fire





Creative Fire is an avard-straining communications and strategy firm and member of the Des Nedhe Group of companies, one of Canada's leading indigenous economic development corporations owned by English River First Nation in Northern Saskatcheven. Learn more at creative-fire.com.



# AGENDA

480 - 9800	Registration
9:00 - 9:80	Welcome and Introductions
980 - 1280	Indigenous investment and Marketing Opportunities To establish strong ration-to-nation inde, marketing, and investment relationships between Indigenous Canada and Asia Pacific countries, it's important to understands • Where are the appartunities for patential Asian investment, barranse, or toda? • How can the Asia Pacific Foundation of Canada and others best support indigeness barranses in these efforts?
	Indigenous business leaders provided an overview of their business and economic development activities and any initiatives, products, or services that might be suitable for Asia Pacific markets or investment.
LUNCH	
1:16 – 8:45	<ul> <li>Anis Pacific Market Opportunities and Challenges</li> <li>Indigenous businesses and economic development corporations have begun to make invocés into markets in the Asia Pacific region in recent years, however, the opportunities in the region have only begun to be tapped:</li> <li>Alter can Asia-Intersated indigenous entities grav their presence in Asia?</li> <li>How can indigenous compaster connect to global supply chatter to take advantage of grawth in Asia?</li> <li>What can we have from established best practices?</li> <li>What are the main opportunities and challenges for ungaging the Asia Pacific region?</li> </ul>
	APF Canada, inde, and export development experts provided their thoughts and insights.
3:45 - 4:15	The Role of Diplomatic Offices Diplomatic offices play an essential role in facilitating tasks and friendship between Canada and Asia Pacific countries. Representatives of the Taipet Economic and Cultural Office in Vancouver provided insight into their role as facilitations of trade and in accounting other markets in Asia.
415 - 580	Takaoways and Next Steps Roundtable discauton on loarnings and next steps:
.6200	Concluding Remarks





ALL INCOMOUS

### PRESENTATIONS

Presentations were provided by leaders of indigenous economic development organizations on the following:

- The Taza Developments Darrell Crowchild, Taut'ina
- The SRDL Burinear Group Tam Many Heads, SRDL Business Group
- Murgueen Cepitel Corporation Stephen Lee, Murgueern Cepitel Corporation
- Numerativus Group of Companies Clime Davis, Acasta Capital
- Cold Lake Priorities and Opportunities Hunther Bishop, Cold Lake First Nation
- Der Neche Development Overview Seen Willy, Des Neche Development.
- Leases Leaned Metthew Coon Come, Grand Council of the Creas

Presentations were provided by tasks and business relations experts, including:

- Stewart Beck, President and CEO, Asia People Foundation of Canada
- Christian Hansen, Senior Trade Commissioner, Canadan Trade Commissioner Service
- Rost Niedermeyer, Trade Commissioner, Canadian Trade Commissioner Service.
- Bryan Hughes, Export Development Canada
- Xenia Wong, Bennett Joner
- Andy Chen, Director General, Taipel Economic and Culture Office Vancouver
- Ruth Chang, Taken External Trade Council





### **10 TAKEAWAYS**

- Retail, natidential, and light industrial land development are key economic drivers for indigenous Nations, representing high priorities for potential investment.
  - Represents largest/primery investible asset and lowest-hanging fruit.
  - Mostly graanfield opportunities, some adjacent or close to brownfield and existing commercial developments
  - Renewable energy investments are high-potential since northern First Nations and Inuit have land bases to support renewable production and feed into North American grids

Indigenous Nations offer an "ease of doing business" that conventional municipal governments cannot.

- Nations are self-governing with jurisdictional control over development within their territories
- Regulatory environment is more simple and straightforward.
- Access to key decision-makees
- The time required to approve and scale infectorcture and capital projects is more efficient.
- Greater access to vater/equifer sources for heavier industrial applications
- Indigenous Nations with independently-governed economic development corporations might be considered more attractive as partners since there is less business risk associated with potential turnover in political leadership.
  - Musquam and Da Nache have independent corporate boards governed by Business Charten





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### **10 TAKEAWAYS, CONTINUED**

- 4. Potential for investment in technology manufacturing on urban Flot Nations lands is strong, especially in cases where First Nations are located in close proximity to vocational and technology training programs to support labour force development/supply.
  - Recent example is Fujitau, which is looking at Vancouver as it would have access to artificial intelligence (AI) resources and skilled labour pool
- Indigenous Nations involved in natural resources development and extraction have high potential for Asia Pacific investment.
  - There resource-based economies need capital to develop.
  - Resource-based products like freehouter faih could find immediate investment and consumer interest from the Asia Pacific region
- APE Canada is well-positioned to provide origing autotance to indigenous Nations in developing and refining investment opportunities targeted at Asia Pacific governments, customers, investors, and markets.
  - Can help frame thinking and strategy on how to succeed in Asia.
  - Assistance in mobilizing Canadian Inlages and government resources
  - Resources and diplomatic/professional relationships that can accelerate business relations acress the region





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### **10 TAKEAWAYS, CONTINUED**

- Indigenous co-operation across First Nations, Instit, and Mette will be required to project a bigger brand image and supply strength to Asia Pacific governments, consumers, and markets.
  - Unified brand as vehicle to sell, authenticate, deliver \*s \$X million cooperative that provides X products\*
  - In Asta, Canadian food products are considered high-quality, particularly if verified under a quality standard
  - Capacity to service demand in Asia Pacific region/espanding markets is important.
  - Concept of an indigenous economic co-operative presenting and flying as a brand would be vehicle to really engage Asia Pacific markets (investors, customers, consumers)
  - Generally preferred to work with larger organizations lase risk, strong presence, greater confidence, significant combined auets, consolidated touch-point for negotiation and conflict resolution
  - Trade associations like the Nurstatevut Group of Companies or newly-formed Nis'Kinde Indigenous Business Consortium are working examples that could be used as launchpeds for the development of such an entity to facilitate Aste Pacific trade
  - If there are challenges to collaboration, start with a simple, neutral agreement between selected First Nations with the objective of Selling X into X country" and then invite others to participate
  - To form an alterce, resources (and therefore financial commitments) would be required with the price to perticipate increasing as the alterce groves





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- A. The Canadian Trade Commutationer Service (TCS) office, World Chambers Network, Diplomatic Offices and the APF Canada are sources of Aste Pecific market intelligence and can facilitate relationship-building and marketing in specific countries.
  - International trade diversification and supporting under-represented groups like indigenous businesses are priorities of current federal government
  - To leverage and complement this service, indigenous Nations would benefit from "boots on the ground" sales and marketing support.
  - CanEsport Program covers some costs associated with visiting a market to generate business
  - Invest in Canada Program covers some costs associated with promotional materials and other associated expenses
  - Many businesses competing for TCS attention and support the better defined the opportunity, the better the support and edvice



### **10 TAKEAWAYS, CONTINUED**

There is immediate interest by the Takemese to explore business relations with First Nations in Canada.

- Tatem is a welcoming market where business is done in English and legal structures are similar to North America
- Large-scale exhibitions are the primary business relationship-building tool
- Canadian Pavilian is a popular destination for regional customers and buyes demand for indigenous products and services would be strong
- Director General extended an invitation for delegation of Indigenous business leaden to participate in a (funded) trade mission to Tahvan, which APF Canada agreed to assist in coordinating

E-commerce platforms should be included as part of any Asia Pacific business startagy.

- APF Canada collaborated with a Canadian company that now sells through JD.com and Altaba.com
- Fresh-water fails, specialized cuts of wild ment products are suited to this approach.
- E-commerce platforms are popular ways to do business, even on large volume sales
- Payment to a critical tasks to consider
- Decide on a startagic approach to a specific market (Hong Kong or Taiwan) and then scale to others (China) based on success
- APF Caneda has prepared white papers on e-commence approaches that indigenous corporations should reference





## RESOURCES

### Stategies

In 2011, APF Caneda worked with BC Flott Nations Energy and Mining Council to produce a China engagement strategy and worked with it again in 2014 on a Japan engagement strategy. These are examples of what the Foundation could develop in partnership with Indigenous Nations acress Canada.

China

https://www.autapactfic.co/sites/default/files/filefield/chinestrategy\_finel.pdf

Japan

<u>www.czcj.cr.jp/stes/default/files/events/files/towards\_s\_fiest\_mations-japan\_stategy\_page.pdf</u>

#### Research

APF Canada has prepared research papers that speak to redon-to-nation opportunities for commerce and investment.

Pecific Pertnerships: Connecting Indigeneus People in Cenade to Oppertunities in Asia https://www.utapecific.cs/blog/pecific-pertnerships-connecting-indigenous-people-canade

Setzing International Opportunities: British Columbie's First Nations Enhance Ther with China https://www.eutopacific.co/sites/default/files/filefield/corrects\_auto\_agenda\_21\_final2.pdf

### Guiden

The Asia Pecific Foundation of Canada created this online resource for the BC Government in 2016, which could serve as a launchped for the development of a specific guide for indigenous business and economic development corporations.

Guidebook to Doing Business in Arte https://www.investbelonma.com/application/files/2014/7795/5141/bc-ame-guidebookjune2016-2.pdf

For more information please contact:

Scott Herrison Program Manager Asia Pacific Foundation of Canada 404.4a0.1586 scott.herrison@asiapacific.cs





### **DISCUSSION NOTES**

### Indigenous – Asia Pacific Business Relations Roundtable

### DETAILED NOTES

February 13, 2019 Asia Pacific Foundation of Canada 8900 - 675 West Hastings Street, Vancouver, BC

> Prepared by Carrie Peocock, Raincoast Ventures Ltd.

#### Roundtable Highlights

During the roundtable:

- Presentations were provided by representatives of Indigenous economic development organizations, on the following:
  - "The Taza Developments", by Daniell Crowchild, Tsuut'ina.
  - "The SRDL Business Group", by Tom Many Heads, SRDL Business Group.
  - "Musqueam Capital Corporation", Stephen Lee, Musqueam Capital Corporation
  - "Nunatsiavut Group of Companies", by Clint Davis, Acasta Capital
  - "Indigenous AP Business Relations Roundtable", by Heather Bishop, Cold Lake First Nation
  - "Des Neche Development", by Sean Willy, Des Neche Development.
- Presentations were provided related to "Asia Pacific Trade Opportunities" by the following:
  - Stewart Beck, President and CEO, Asia Pacific Foundation of Canada
  - o Christian Hansen, Senior Trade Commissioner, Canadian Trade Commissioner Service
  - Rosie Niedermayer, Trade Commissioner, Canadian Trade Commissioner Service.
  - Bryan Hughes, Export Development Canada
  - Xenia Wong, Bennett Jones
  - Matthew Coon Come, Grand Council of the Crees
  - Andy Chen, Director General, Taipei Economic and Culture Office Vancouver
  - Ruth Chang, Taiwan External Trade Council
- Next Steps / Key Takeaways:
  - Establishing relationships is critical for engaging in the Asian market.
  - A consolidated co-op or alliance of First Nations organizations, would make it easier to access the Asian markets (or other markets); it is generally preferred to work with larger organizations
  - Support is available through the Asia Pacific Foundation of Canada, Trade Commissioners, Export Development Canada, the foreign representatives' offices, and other trade-related associations
  - The Director General extended an invitation for a delegation of indigenous business leaders to participate in a (funded) trade mission to Taiwan, which the APF acreed to assist in coordinating

#### Welcome and Opening Remarks

#### 1.1 Bonnie Leask, Creative Fire

Ms. Leask welcomed participants to the roundtable at 9:00 a.m., introduced herself and her colleague Jason Aebig, and acknowledged the traditional lands on which the roundtable was being held. She extended appreciation to Sean Willy and others for their contributions to the coordination of the roundtable, and to key economic development leaders for their keen interest in attending.

#### 1.2 Sean Willy, CEO, Des Neche Development.

Mr. Willy welcomed delegates and recalled past decisions to move towards creating own source revenue (OSR) opportunities. He acknowledged the opportunity to engage with the Asia Pacific Foundation (APF), noting that efforts were being made to look at opportunities to build on access to resources (i.e. oil, gas), and to discuss nation-to-nation partnerships. He noted the importance of discussing how to start working together, going forward.

#### 1.3 Stewart Beck, President and CEO, Asia Pacific Foundation of Canada

Mr. Beck reviewed his past experience in economic development strategies with First Nations, including the Rama Casino. He reviewed predictions that Asia could represent 66% of the global middle class by 2030, and recognized benefits of seeking a bridge between First Nations and Asian economies.

He reviewed his past experience in Taiwan, where there was a significant Indigenous population. In the late 1990s, the Ambassador to China saw opportunities to connect with Indigenous communities in Taiwan. The President of Taiwan formally apologized for the mistreatment of Indigenous people and proceeded towards reconciliation. New Zealand's economy included a significant Maori presence.

Mr. Beck noted that he looked forward to the roundtable's discussion and the later reception with representatives of the roundtable's sponsors: LNG Canada, Teck, Port of Vancouver, Mosaic Forest Management, SFU, CP and Air Canada.

Attendees participated in a round of self-introductions.

#### 2. Indigenous Investment and Marketing Opportunities

Ms. Leask welcomed delegates to consider the following questions, while listening to the prepared presentations from indigenous leaders:

- Where are the opportunities for potential Asian investment, business or trade?
- How could the Asia Pacific Foundation and others best support you in these efforts?

#### 2.1 Darrell Crowchild, Tsust'ina

Mr. Crowchild reviewed an overhead presentation titled "Taza and the Southwest Ring Road, Together at Tsuut'ina", and the following:

The definition of "Taza" means an "expression of amazement" or "something great is about.

to happen"

- The Taza development is a joint venture between the Tsuut'ina Nation and Canderel
- The size of the development is estimated at 1,200 acres (\$4.5 billion real estate value).
- The Tsuat'ina Trail ("The Calgary Ring Road"):
  - Alberta initially wanted to build a road through the nation, which was not supported.
  - o Michael Clark was Lead Counsel in negotiating the Ring Road deal
  - The west leg of the Ring Road will likely complete by 2024
  - Access points to the First Nation were built into the ring road agreement.
- The agreement with Alberta transportation affirms Alberta will build and maintain the roads.
- A development south of the casino is currently being negotiated
- Alberta will soon be confirming timing for completion of the access points; this is critical to the developments
- A major tenant for the industrial park will soon be announced; the industrial park is intending to open by November 2019, although the ring road will not yet be complete
- A master service agreement has been achieved with the City of Calgary to provide water etc.
- The completed roads will transfer back to the First Nation
- Taxes collected will pay for servicing
- Discussions are ensuing with 150 tenants throughout all three Taza developments
- Key milestones include: adoption of the land use plan in December 2017; completion of Phase 1 (infrastructure) in Q4 2018; completion of Phase 1 (vertical construction) in Q2 2019; a tenants open in Q3 2020
- With the King Road the community will be about 36 minutes to the Calgary Airport.
- There are three areas of the Taza development: Taza Park, Taza Crossing and Taza Exchange.
- Taza Parte
  - A 530-acre parcel located on Glemmore Trail; the Ring Road bisects Taza Park into two parcels
  - Access from the Ring Road to Taza Park was critical; access is provided by three interchanges
  - Land uses at Taza Park include: entertainment, shopping, etc.
  - Tenants for the Eagle Landing portion of Taza Park are being finalized.
  - Green space throughout the Eagle Landing development was critical
- Taza Crossing:
  - o A 360-acre development to the south of the Glenmore Reservair
  - Alberta will construct/maintain the road into Taza Crossing; the first layer of asphalt has been laid
  - Access is provided by an interchange on the Ring Road.
  - o The intent is that Taza Crossing will be a hub of "health, wellness and innovation"
  - Land uses in Taza Crossing include: innovation, technology, health care, recreation, multiunit residential, etc.
- Taza Exchange:
  - A 390-acre area located near the existing Tsuut'ina Nation facilities
  - This section accommodates the administration building, the Tsaut'ina police station, and the new Sportsplex
  - The old Sportsplex was in the middle of the Ring Road location; Alberta provided funding to build a new facility which opens soon; it includes ice rinks, an outdoor facility, and other elements

- Land uses for this section include: retail, shopping, entertainment, hotel, etc.
- The land was previously accupied by the Buffalo Run Golf Course
- The Shops at Buffalo Run" will be constructed in the middle of Taza Exchange; tenants for this shopping mail will soon be announced
- A large organization will be accommodated in this section (to be announced soon).

#### Discoveren

The following questions/comments  $\{Q/C\}$  were offered by roundtable participants, and responses (R) were provided by the presenter:

- Q/C: Who did the planning for this project?
- R: Tsuut'ina Nation entered into a partnership arrangement with Canderel Development. Representatives of the Tsuut'ina Nation Council and Canderel participate on the Board of Directors for the project. Experts are brought in as needed.
- Q/C: What portion of those involved in doing design work are First Nations representatives?
- R: There are only a few First Nations people involved in the design work. Other teams are focused on seeking opportunities and the community plan.
- Q/C: What are the biggest challenges that have occurred with this project?
- R: Some of our biggest challenges have been working with government. The Department of Justice Canada is focused on protecting the Crown. The project's team remains focused on the project's objectives.
- Q/C: Many First Nations are getting involved in urban investment. We have 150 acres south of Saskatoon, which we are moving forward with, on a smaller scale.
- Q/C: How open are you to outside investors?
- R: We are open to all investments. We are finalizing a syndicate which seeks to raise \$280 million. We are determining who will be taking the lead on this. We are open to looking at leasing land, investments, etc. A few First Nations have asked about investment opportunities.
- Q/C: What are the challenges related to seeking out Asian investments in Canada?
- Q/C: If you are looking at a green field investment, you are competing with others. Any investor will need to consider the tax environment, land costs, access to labour, etc. Commodity space is critical.

Access to natural resources is important. How much latitude do you have and how can you package it? This project could become an attractive investment, given its proximity to Calgary. Fujitsu is looking at Vancouver as they would have access to AI resources. Immigration programing needs to allow us to bring in skilled staff. Setting up a vocational

institution that would focus on technology skills, would be attractive to investors.

R: We have had a few workshops. There are a lot of concepts (i.e. education, technology) – Taza Crossing will be the last piece of the project to be developed.

#### 2.2 Tow Many Heads, President and CEO, SROI, Business Group

Mr. Many Heads reviewed an overhead presentation titled "SRX. Business Group – A Silsika Nation Company", and noted that:

- During the last 25 or 30 years, Silvita was focused on natural gas and oil production.
- The dropped gas and oil prices and production led to the market crashing
- SRDL has become involved in other entities.
- SRDL recognized the need to diversify its business development agenda, which prompted consideration on some external opportunities
- Investments have been pursued closer to urban metropolitan centers.
- The SKOL's core business is related to: agriculture, energy, construction, retail, hospital and investment/future growth
- Agribusiness has been critical to Silsika; there is potential for expansion in irrigation; Silsika has an abundant water supply, which Silsika only accesses a fraction of
- The Siksika Energy Resource Corporation was established in 1995; Siksika is getting out of the oil business, but not the energy business
- With Blackfoot Aggregate, Siksika has some of the most prolific gravel sources in Alberta
- In 2011/12 Sitsika recognized that a pipeline would be constructed; as construction growth in southern Alberta was anticipated, an agreement was formed with Graham Construction to help build projects, including a retail business place
- Sitsika took on construction contracts through Nitsitapi-Graham LP (NGLP) with the intent to help with mitigating before a flood
- Sitsika sought to provide services and sustainable business to the community, and included a Petro Canada, Subway, grocery store, WIFI services, and a business centre
- Recent hospitality investments have been secure.
- Sitsita Holdings has seven hotel and conference properties covering distinct market sectors in Alberta and BC; viable partnerships in the hotel sector and brand name entities were pursued; Sitsita partnered with a group in BC – PHI Hotel Group, and invested in two hotels in Calgary:
  - The Calgary Westin at the Calgary Airport, opened January 2019 on federal crown land and Calgary Airport Authority Lands in the NW portion of Deerfoot North Calgary International Airport Trade park
- Sitsika partnered with the same entity to open "Edmonton West" a dual property with "Element by Westin" and "Four Points by Sheraton"
- Discussions on other apportunities have ensued:
  - In addition to developing properties in Calgary and Edmonton with PAL Hospitality, the SRDL engaged with the Pomeroy Group on projects in Ft. St. John, Kelowna, Kananashis, and Prince George
  - The Kanaskis Mountain Lodge is a world-class resort.
  - Investment and future growth opportunities include, "Sitsika Herbz Ltd." a 24,000 square foot cannabis production facility, in the Sitsika Industrial Park, approximately one hour

east from the community in partnership with a BC organization (anticipated to open in late 2020)

- Regarding agri-business opportunities, the Stage 2 Inigation Expansion Plan is projected to inigate an additional 6,000 acres in the Shouldice, Arrowwood and West Are Rats areas
- Sitsika has a combined asset value of \$140 million; the Business Group employs 161, employees.

#### Discussion:

The following questions/comments ( $\Omega/C$ ) were offered by roundtable participants, and responses (R) were provided by the presenter:

- Q/C: How could APF support your efforts?
- R: We have strengths and assets, including a massive land base. We are situated one hour from Calgary. A challenge has been accessing markets. Siksika welcomes the opportunity to make direct contacts with Asian partners, and is looking at future potential investments. We want to entertain a long term growth strategy.

#### 2.3 Stephen Lee, CEO, Musqueam Capital Corporation (MCC).

Mr. Lee reviewed an overhead presentation titled, "Musqueam Capital Corporation" and reported that:

- When he started working with Musqueam, they were recently out of receivership/remedial management
- With community and leadership's support, the MCC was formed as the asset management arm of the Musqueam Nation
- The MCC's Board of Directors reports to Chief and Council and is responsible to Musqueam members
- The MCC's goal was to separate business from politics; significant collaboration and communication with the community is critical
- The land base is small Musqueam is in the City of Vancouver, therefore land value is high
- Musqueam has off-reserve assets and conducts business seamlessly with the Oties of Vancouver, Burnaby, Delta, Richmond and others
- Musqueam has three pieces of expensive land the Musqueam Golf and Learning Academy (on reserve), the University Golf Course (150 acres on University Endowment Lands), and Shaughnessy Golf Course (a private membership club, under lease in Shaughnessy)
- The Militown Marina on the Fraser River is situated between Richmond and Vancouver, and was established through a long term lease agreement with the Port of Vancouver; there are tenants at the marina including a pub, brokerage firm, and marine repair/maintenance facility
- Other properties under management include: "Shalimar" a 76-unit residential property (on reserve)
- The Fraser Anns site (on Marine Drive) was acquired in 1993 by Musqueam
- A 22-acre development on the University Endowment Lands, across from the University Golf Course, took a few years to rezone and have incorporated green space and walkable areas, this is separate from the City of Vancouver
- Lelem Village (marketed as a "Master Planned Community at UBC Pacific Spirit Park"):

- "Letern" translates to "Home"
- The project includes mixed use and a retail plaza to be anchored by a major grocery, restaurants, and rental and market residential units
- The project will be built in two phases over a ten year timeline; for the first phase, the First Nation partnered with Polygon
- Musqueam can lease the lands long-term (99 year leases); the key is that Musqueam will retain ownership of the property
- o The Lelem Community Centre and Day Care is a 15,000 square foot project
- A lot of old growth trees were retained and incorporated in features of the development; timber taken from the community was repurposed in the Musqueam community
- An adventure part/playground was included for the "young and young at heart"
- There may be just under 200 acres of lands, valued at billions of dollars
- Musqueam is nearing ownership of 200 acres of lands (including industrial, residential, mixeduse, office and reserve lands)
- A pipeline of 30-40 years of strategic development has already been mapped out.
- The focus has been to partner with other First Nations to leverage a position to acquire lands back; synergies have been created by transitioning accommodation into equity
- Musqueam has materialized a large portfolio that will continue to monetize to create wealth for future generations; a wealth fund may be created for community members
- Musqueam has leveraged some strong partnerships and has worked with local long-term development partners.

#### discussion:

The following questions/comments (Q/C) were offered by roundtable participants, and responses (R) were provided by the presenter:

- Q/C: What have you done to insulate business from politics?
- R: The Board of Directors is made up of nine directors, of which five are Musqueam members (three from Council, two from community) plus some external business representatives. A "Business Charter" governs the relationships between the MCC and government, and separates extraordinary decisions, and limits and restricts what we can do.
- Q/C: Does the MCC get involved with projects?
- R: An Asset Management Agreement lays out which assets the MCC is involved in. MCC representatives may be invited to sit in on some discussions, related to various business opportunities.

#### 2.4 Clint Davis, Partner and Managing Director, Acasta Capital

Mr. Davis reviewed an overhead presentation titled, "Nunatsiavut Group of Companies", and noted that:

- The Nunatsiavat Group of Companies is one of six Inuit development companies across the country
- Less than 4% of Canadians have been to the north (mostly for work)
- There are three development corporations in Nunavut (representing each of the three

different regions)

- The Nuratsiavut Group of Companies owns a helicopter company (solely inuit-owned), which serves the north and the homeland; opportunities to collaborate with the other development. corporations in the north have been pursued
- A trade association sought a unified voice for inuit business, to enable opportunities to bid on some large scale opportunities (i.e. residential facilities for people travelling to the north)
- A land claim was settled in 2005 (for five communities), which was the last inuit land claim to be settled in Canada
- Most inuit communities rely on diesel; many do not have road access; those who do have roads, are often inaccessible during the winter months
- The Nuratsiavut Group of Companies is based out of Newfoundland/Labrador
- An impact agreement has been negotiated with a copper mine.
- To separate business and politics, a trust was established, which is the sole shareholder of the development corporation
- There are procurement opportunities with the Government of Newfoundland/Labrador; land daim management is governed by the Nunatsiavut government.
- The Board of Directors is comprised of government officials and three independent Directors; the Board cannot intervene in daily operations; it would be helpful if they came out and supported
- The vision of the organization is to be an inuit-led business leader in the north; the goal is to
  produce annual reports that demonstrate that Nunasiavut is open for business
- Nunasiavut owns a number of companies (solely and partially)
- A "Corporate Social Responsibility" policy was designed to govern how to support the community
- There are 11 operating companies and joint ventures with major organizations including: Kiewit, Bird Construction and others
- Nunatsiavut is keenly open to discussions on operations

#### Discussion:

The following questions/comments (Q/C) were offered by roundtable participants, and responses (R) were provided by the presenter:

- Q/C: Have you pursued discussions with circumpolar and arctic connections?
- R: The Arctic Indigenous Investment Conference 2019 is scheduled February 12-14, 2019 in Whitehorse. There are a number of different entities in the Arctic Secretariat – some are driven by non-polar countries while others are driven by other interests.

A few years ago, we came together at the table. We have not met with other business investors from elsewhere in terms of an approach to the arctic. There will likely be new transportation routes and greater access to resources. Russia is trying to assert its sovereignty over the region.

We think there will be a critical role for our development corporations to play – we could provide insight. If there is some opening up to the arctic, how can we ensure our communities, cultures and environments are respected? We are trying to coordinate a trade mission to Greenland. They want to seek capitalism opportunities with Canada. We

have met with the Danish Consulate and are seeking to visit in May or June 2019.

- Q/C: Do you do any fisheries business in Asia?
- R: We were trying to get our fish products sold in Canada, but they are being sold to Asia. We just purchased belicopter companies in BC and in California. It is important to look at the far north – it is a remarkable opportunity for the country. Other countries recognize its value, as a strategic asset.
- Q/C: It would be helpful to have a better understanding of how the APF works.
- R: The APF can help you frame your thinking in how you can succeed in Asia. There are some common themes, but we will look at this as an exercise. Collaboration is critical when First Nations go to different markets they do not have the same impact as if they collaborated into one group, representing a large group of First Nations.

Consider how to come up with a common script that reflects a larger group, with multiple assets and resources.

The process in Canada is complicated. Take what you are doing here, bring together a common theme, and project it when you go abroad, to make it easier for the APF to work with you. You need a larger image. The biggest companies in India will not want to deal with small entities. They prefer to deal with an entity with significant combined assets.

#### 2.5 Heather Bishop, Director, Cold Lake First Nation (CLFN)

Ms. Bishop reviewed an overhead presentation titled, "Indigenous AP Business Relations Roundtable – Cold Lake First Nation" and reported that:

- Cold Lake First Nation:
  - o Isin Treaty 6 in NE Alberta
  - Has traditional territory extending into Saskatchewan
  - Has approximately 2,800 members and four different reserve parcels in close proximity, near the City of Cold Lake
- The "Cold Lake Air Weapons Range":
  - Was developed in the 1950s without dialogue with First Nations
  - Many First Nations people were displaced when government made the decision to establish the range; ammunition testing still occurs on site
  - Otizens were relocated to the south, to practice agriculture on the edge of the Boreal Forest; there were catastrophic impacts on First Nations
- The Cold Lake First Nations' land claim was settled with federal government in 2001.
- Charts titled "Cold Lake First Nations, Changes in the Circle of Livelihood" indicated a typical annual circular calendar, in three phases: pre-1952, 1952-present and future
- The CLFN did not have a specific economic development arm, but was developing a business trust
- The "Primco Dene Group of Companies" includes over 20 companies; many community members have had their own independent businesses for some time
- CLFN is at the south end of the oil sands development, which is where most of the industrial activity is derived; efforts are being made by many First Nations to diversify away from oil and

gas

- Most of the economy in Alberta is based on oil prices
- The Alberta Energy Corporation provided a \$100,000 loan to the CLFN, to establish a construction company, which has subsequently evolved and expanded
- The City of Cold Lake has approximately 10,000 residents, including residents at the weapons range
- The CLFN regained access to the weapons range lands, through a settlement agreement.
- Government may be seeking to get weapons ranges off of lands suited to energy production.
- CLFN owns and operates: Casino Dene, a Courtyard Manifott Hotel, and companies focused on the environment, insurance, cement, etc.
- There are significant opportunities in the Boreal Forest.
- Partnerships are in place with forestry companies been to work with First Nations in Saskatchewan
- CLFN is proud to have an 80% indigenous employment rate.
- Formal partnerships have been established with some First Nations across Canada
- Initiatives include: the business trust and governance structure; reserve lands planning, comprehensive community planning, economic development strategic plan, partnerships with other indigenous and non-indigenous communities (government, industry, businesses, etc.); research and grant opportunities
- Opportunities to promote tourism have been considered (i.e. The Alex Janvier Gallery)
- Efforts are being made to diversify with opportunities from the conventional oil/gas industry.
- CLRN is struggling with how to leverage finances, investments and trust.

#### 2.6 Sean Willy, CEO, Des Nedhe Development

Mr. Willy reviewed a distributed brochure on "Des Neshe Development" and explained that:

- Des Neche has approximately 1,200 band members.
- 30 years ago, Des Neche became involved in the uranium industry, and is now the second largest uranium producer (second to Kazakistan)
- In the mid-1990s Des Nedhe purchased land situated to the south of Saskatcon
- Des Neche Development:
  - The Eders and community leaders created Tri-Con North, which is now "Tron Construction and Mining", a 100% First Nations owned company
  - Des Neche also owns a partnership with Tyson Mining
  - Efforts were being made to evolve towards modern joint-venture agreements.
  - Des Neche appreciates the partnerships and the employment they created
  - A "Freshwater Fish" Crown corporation is being pursued, to re-invigorate industry.
- Des Neche projects:
  - The Grasswood Urban Reserve has a successful tobacco business.
  - Beauval has established a prospercus arrangement with Loblaws.
  - Des Neche purchased a welding fabrication business.
  - Creative Fire is a communications firm that can assist First Nations companies in telling their stories
  - A setback experienced at the community level were impact benefit agreements (IBAs), etc.
- Des Neche hires more Indigenous people than non-Indigenous people.
- Efforts have been made to support for organizations seeking to employ First Nations people.

- Federal government spends \$12 billion on services each year but they only use indigenous suppliers .5% of the time
- Des Neshe has a 30-year history and strives to hire good people.
- Community members believe economic development leads to self-determination.
- It is important to work towards tying the Asian market to opportunities.

#### Discussion:

The following questions/comments (Q/C) were offered by roundtable participants, and responses (R) were provided by the presenter:

- Q/C: There are differences between First Nations, Inuit and Métis governments and communities. We partner with Innu for convenience.
- R: Is "patient money" a real thing in the Asian market? We have 53 acres of land left to purchase in Saskatchewan.
- Q/C: Are you seeing any movement with federal government?
- R: Yes. There have been some internal mandates. We are working towards a better value proposition and the best quality of bids.
- Q/C: The APF is involved with some work exchange programs in Asia. Consider what can be done to engage students and ensure they are "Asia-ready". Can we share some already-developed curriculum?
- Q/C: At a recent panel focused on diversification of the economy, someone questioned how to develop a technology hub in Calgary. A lack of talent has been identified as the biggest limiter.
- Q/C: Calgary may attract some technology talent, where the cost-of-living is less than in Vancouver.
- Q/C: Capacity is a key struggle. There have been a record numbers of indigenous people graduating from law school, which we struggle to see translated into the workforce.
- Q/C: The number of students coming from India has declined since 2010. Consider working with educational institutions. First Nations organizations could provide infrastructure and/or the skill to help diversify in traditional areas. In Ontario, 60% of students going to vocational institutions have a university degree. People need jobs. There is value to having a university degree in addition to a vocational skill.
- Q/C: Many indigenous people are pursuing roles in social sciences. We need to strive to be an "employer of choice". A goal of the TD Bank has been to hire as many indigenous people as possible. Organizations could attract talent by offering appealing approaches to lifestyle and work-life balance.

Q/C: Migration to urban centres is occurring everywhere. Where there is population growth, there are social, education and other issues.

#### 3. Overview of Trade Opportunities

#### 3.1 Stewart Beck, President and CEO, Asia Pacific Foundation of Canada

Mr. Beck explained that prior to joining the APF, he served as the Canadian High Commissioner to the Republic of India. He joined Canada's Department of External Affairs and International Trade (now Global Affairs Canada) in 1982 and served abroad in the United States, Taiwan, and the People's Republic of China. In Ottawa, he held a number of positions, including Director General of the North Asia Bureau, Director General Responsible for Senior Management and Rotational Assignments, and Assistant Deputy Minister for International Business Development, Investment, and Innovation. He was Consul General in Shanghai and prior to his posting to India, he was Consul General in San Francisco.

He further acknowledged that:

- Saskatchewan was the largest exporting province to India (i.e. potash, pulp, etc.)
- Diamonds from the NWT passed through Antwerp and were cut in India.
- A number of commodities are not being statistically credited to Canada (i.e. gold, engines, etc.)
- Asia is a growing region; abilities to export to Asian markets need to be considered.
- A lot of agricultural products were sold in Asia, based on stringent Canadian standards.
- "Transitioning from one meal of dahl per day to two, has a significant impact on the economy".
- India has two of the largest refineries in the world; they would welcome oil sands crude from Alberta, as it generates more products they could market.
- Alberta Petroleum Marketing Commission signed an agreement with an Indian organization, but it could not proceed due to access issues
- The gravity of oil from California is the same as from the oil sands; their refineries are geared for this
- It is important to consider the demographics; the median age in Asia is 30.7 years; there is an aging demographic in China, meaning that health care is critical; the APF website shows Statistics Canada information on products Canada ships to Asia
- In 2014 we held 1.39% of the import market share; in the preceding years, the economy expanded but Canada's market share did not increase at the same pace
- It is fundamental to diversify trade away from the US; it takes patience and time to do business in Asia
- Consideration could be given to creating a co-op around fresh-water fish, to be sold through an e-commerce forum in Asia
- Direct flights currently move lobster from Halifax to China.
- Quality product is more important than price in China
- It is critical to:
  - Consider your assets, and then create a larger projection.
  - Work together as a group rather than as individual First Nations
  - Consider establishing an economic development co-op of a group of First Nations.
  - Work with people that know and understand how to do business in the Asian markets

- Determine what products you can provide
- Payment is a critical issue to consider; how you sell into a super market is different from how you sell to an e-commerce platform
- Decide on a strategic approach to a market, then scale it to others, based on your success
- APF collaborated with a company that works with JD.com and Alibaba.com
- Specialized cuts of beef from an Ontario packer are sold in Asia; although meat packers in Alberta also wanted to ship beef, the Ontario seller provided cuts the Asian market wanted, on e-commerce platforms; his sales have grown exponentially
- Hong Kong or Taiwan could provide an opportunity to work a model out first; then look to China.

#### Discussion:

The following questions/comments (Q/C) were offered by roundtable participants, and responses (R) were provided by the presenter:

- Q/C: Could the collective be a corporate entity comprised of multiple First Nations?
- R: Yes. The corporation could introduce itself as "an \$X million cooperative that provides ? products". Consolidators do this First Nations need to be their own consolidator. They could sell products including fish, seafood products, etc. Consider what value can you add to products that can be branded in a certain way. In China, Canadian food products are considered high quality, particularly if certified under a quality standard. We have prepared three papers on e-commerce, which are accessible on the APF website. They offer examples of how to sell into the market. It is important to work together.
- Q/C: I have seen instances where organizations, begin to partner with others (through an agreement), before selling into the Asian market. It is about scaling, size and having a presence.
- R: If you bring your resources together, your marketing budget is larger. If you decide to pursue the market in China – identify who to work with, based on the products you decide to sell.
- Q/C: First Nations organizations may tend to look inwards.
- Q/C: Consider a neutral agreement to state "We are selling sealand to Vietnam" then invite others to participate.
- Q/C: There is nothing you cannot buy online in Asia.
- R: You can sell a tourism package online. Many of the packages sold in China, are directed to healthy and fit millennials, who are keen to travel north. You will need to adapt your marketing approach accordingly. Seeing the Northern Lights is a big deal for many people in Taiwan.
- Q/C: Many people in Asia do not know a lot about Canada.

- R: Given the average income of people in China, a \$10,000 tour package to Saskatchewan may not be significant. It is important to consider the market.
- Q/C: What are some of the considerations when selecting the first "point of entry", aside from whether or not there is a market for a product?
- R: There are overlaps between "investing" and "selling a product". Start in Hong Kong or Taiwan – they are easier markets, where you can do business in English. Legal structures are also similar.
- Q/C: What about "niche to scale"?
- R: One of our Directors talks about a "protein super-cluster" opportunities in Asia. In Canada we may think the market for a specific pea would be small, however, they are sold exclusively to China, where they grind it into a flour for noodles. A farmer has indicated that 50% of his bluebenry crop is sold in advance to China. These are niche markets in a North American context. You could sell fresh fish on an e-commerce platform in China.

### 3.2 Christian Hausen, Senior Trade Commissioner, Canadian Trade Commissioner Service Mr. Hansen confirmed that he had been proved to serve Canada in Japan, Norway etc. and further explained that:

- Trade Commissioners were an under-utilized resource
- There are 1,000 Trade Commissioners in cities around the world; they do not charge for helping clients do international business
- "International business" could include seeking international investments, exporting goods or services, or helping a client invest abroad
- Trade Commissioners provide advice; more than half of the Trade Commissioner Service's dients are not Canadian; we hire people with experience in various industry sectors
- We encourage clients to use Trade Commissioners for contacts
- The Trade Commissioner Service offers advice, contacts and funding
- The Honourable Jim Carr, Minister of International Trade Diversification:
  - o Speaks highly of diversifying amongst the export community
  - Supports underrepresented groups, including Indigenous businesses
- Trade Commissioners can help indigenous economic development from an international perspective
- An ideal client, that will do well in Asia:
  - o is 5-7 years old
  - o Has 20 employees
  - Has previously exported to the US.
- When your Trade Commissioner knows your business model, we can help to look at international opportunities, and the existing network
- Federal government's "CanExport Program"<sup>1</sup>;
  - A risk-sharing program which could pay 50% of the costs associated with visiting a market to generate business

<sup>&</sup>lt;sup>1</sup> Per information on Configuret visit: https://biternational.go.ec/tends-communefinding-fluoreneer/compose/bulles.appf/long-org

- For example, if you go to Germany, the program could cover half the costs associated with attending; this supports new markets and new opportunities.
- The program is well-funded; it would be helpful to discuss how the program can help explore new markets
- The "Invest in Canada" Program<sup>2</sup>:
  - o Could share 50% of costs associated with promotional materials and other associated expenses
  - Can help promote opportunities; we also spend time considering the best way to approach a market and risks to be assumed when travelling to China
- The Trade Commissioner's office can provide general information on various considerations. when contemplating doing business in China
- Some clients entered into arrangements that did not turn out as anticipated
- There is an approach to "negotiate, reach an agreement, do business"
- If you are doing business in Asia, contact our High Commission or Embassy office to find out more about contacts
- There are challenges in protecting intellectual property when exporting to China
- It is important to understand free trade agreements and how they apply when doing business • in Asia; the tariffs on wood and fish have come down; if your margin is between 5-8% - this just doubled
- If you have never exported before, look at the "Export Navigator Program"
- The International Inter-Tribal Trade and Investment Organization<sup>4</sup> (chaired by Wayne Garnors-Williams) has been engaging American Indian tribes; some have enhanced their communities through casino revenues and might welcome the opportunity to purchase food from First Nations in Canada for their restaurants.
- The International Indigenous Trade Mission and Conference<sup>5</sup> is held twice a year (the next is scheduled June 2-4, 2019 in Oldahoma)
- The next World Indigenous Business Forum<sup>9</sup> is scheduled October 8-10, 2019 in Vancauver.

#### Rosi Niedennaver, Trade Counsissioner, Canadian Trade Counsissioner Service 13

Ms. Niedermayer admowledged benefits of First Nations working as a conglomerate rather than working independently, and further noted that:

- There are many opportunities for exporting product to Asia
- Trade Commissioners frequently receive requests for qualified buyers in Asia.
- Whatever you want to sell approach a Trade Commissioner for help in facilitating the right connections.

#### figuration:

The following questions/comments ( $\Omega/C$ ) were offered by roundtable participants, and responses (R) were provided by the presenter:

Q/C: We talked earlier about investments. For some projects, we are seeking investments. Would the Trade Commissioners office be able to assist us in tracking capital for specific

<sup>&</sup>lt;sup>2</sup> Per information on the Invest in Councils program, visit: https://www.investorendu.or

Per information on the Expert Manipater Program, with: https://www.linaterevic.con/aspect-analysics/

Per sylemation on the IIIC, visit: https://itka.org/about-title/ Per sylemation on the IIIAGEC, visit: https://itka.org

For information on the WIEF, west: http://wiefc.org

apportunities?

- R: Contact the Trade Commissioner's office, to discuss opportunities. It would be helpful if you can provide a business plan and information on: the capital you are seeking, what the opportunity is, and what the time frame is.
- Q/C: Would the "Invest in Canada" program help consider these opportunities?
- R: Government put money into a "department carporation" an investment promotional agency designed to look at premier investors and large projects.
- Q/C: Ian Gerard McKay was appointed CEO of "Invest in Canada". The office provides a concierge service and will work with someone wanting to invest. Connection(s) could be made particularly if the project was an energy-driven project, which requires discussion with investors in Japan, etc. There are different ways in which to make people aware of opportunities. Currently the investment environment is plagued by issues related to competition, taoation, regulatory environments, etc.
- R: The Japanese government's office for North America looks at energy and mining apportunities for investment.
- Q/C: Are there studies that provide an inventory of resources that are conducive for an Asian market?
- R: I am not aware of a comprehensive overview. In BC, I see a transfer of wealth in terms of resource rights and extracted capacity to Indigenous communities. I want to play a constructive role with respect to accessing foreign capital. It is important to build capacity.
- Q/C: When looking at potential investments in Canada, particularly in the far north where there are some profound gaps, would geography be a barrier to investment?
- R: In my experience with potential foreign investors, the bottom line is the bottom line. It is about making money.
- Q/C: There was a significant investment made to enable a steel company in Quebec to sell to clients in the UK. There is capacity to analyze product locally.
- Q/C: How many clients would a Trade Commissioner typically work with at the same time?
- R: There are 17 Trade Commissioners in the Pacific Region each has 30-50 clients, depending on the sector. The consumer products specialist likely has more clients.
- Q/C: There are a lot of businesses and entities competing. The better defined an opportunity is, the easier it is for the Trade Commissioners to assist.

- Q/C: Consider collaborating as a consortium. Bring together a group. A fund could be created for a specific opportunity. Are there other similar consortiums?
- R: I am not seeing this. It would be easier to service that type of organization.
- Q/C: A consortium (led by Terry Matthews) included six or seven technology companies, to be represented in India. The concept was unique.
- R: There is a group that brings together First Nations' interests in mining, to China.
- Q/C: In China, 68% of the energy is generated through coal plants. As they transition to reduce the use of coal, they are moving towards using gas. There was previously an agreement to take 100,000 barrels to India – the agreement could not proceed due to access issues. Energy in Asia will continue to have a carbon dimension to it.
- Q/C: Is it critical to have "boots on the ground" to complement the intel that a Trade. Commissioner can bring?
- R: The importance of having "boots on the ground" depends on the size of the deal, the relationship with the client, and other factors. It is difficult to generalize the right response.
- Q/C: If you want to achieve long-term business you need "boots on the ground". For example, when Teck came to India – they recognized that steel was needed. Don Lindsay, the CEO of Teck, took his board and management team and spent two weeks in India travelling around, to better understand their infrastructure. Today they sell more to India than they do in China.

Another example is with McCains. After seven years, McCains now has two french-fry manufacturing facilities. McCains prompted changes to the way potatoes are harvested. They now use drip irrigation on potato fields, which were previously flooded to harvest. McClonalds' french-fry sales are significant in India.

#### 3.4 Bryan Hughes, Export Development Canada (EDC)

- Mr. Hughes introduced an overhead presentation titled "Take on the World", and explained that:
- The EDC's mission was to help companies go, grow and succeed in markets across the world.
- EDC has offices across Canada
- After working as an engineer in construction, he had an opportunity as a Trade Commissioner.
- It is important to leverage Trade Commissioners; advance planning is beneficial
- He coordinated deals in Columbia, Mexico and other countries before working with the Trade. Commissioners
- The international EDC offices are generally located in the office of the Trade Commissioners.
- The EDC:
  - Focuses on proactively identifying who to do business with
  - Is engaged in business in 190 markets
  - Works to identify preferred businesses to work with, in the long term.

- Insures transactions (approximately 2% 3%)
- Ensures whether a client is credit-worthy or otherwise
- Arranges corporate guarantees (not personal guarantees)
- Partners with the five large banks and HSBC.
- "Bonding Solutions" can be an impediment for First Nations organizations.
- For companies doing business outside Canada, getting an assurity bond can be challenging;
   EDC does assurity bonds for anywhere in the world
- If LNG needs an assurity bond, bid bond, or performance bond communicate with the EDC; there may be some challenges, but EDC may be able to assist
- EDC can get a company an operating line, before a bank would be comfortable doing so
- Trade Commissioners will get you through "open doors".
- EDC offers webinars on doing business abroad.

#### Discussion:

The following questions/comments (Q/C) were offered by roundtable participants, and responses (R) were provided by the presenter):

- Q/C: We worked with EDC for an acquisition outside of Canada, and would refer others to EDC.
- Q/C: We are also working on a deal with EDC and would refer them.

#### 1.5 Xeria Wong, Bennett Jones.

Ms. Wong reviewed her years of experience in Singapore and Hong Kong as an international lawyer, and explained that:

- Some of Asia's legal structures are similar to Canada's, but may be named differently.
- Consideration is needed on whether you require an Indonesian partner before working in Indonesia
- Canada is generally under-represented in Asia.
- It is important to take time to establish business relationships
- Networking and connections are critical in China; clients need to get to know you and trust you as a person before deals can be engaged
- The language of business in India is English.
- In SE Asian markets, English is common law
- In Indonesia, rather than enforcing a legal agreement, dispute resolution is pursued
- Each country in Asia is different; it is critical to know what you are getting into in advance.
- Hong Kong is an entry way to China; Singapore is a great market and a commercially minded entry-point
- "Face" is a big deal; it is critically important to not publicly embarrass or humiliate anyone; you cannot put someone in a situation where they cannot gracefully say "no"; you cannot demand an answer of them
- Chat apps are critical in Asia for doing business (i.e. "WhatsApp", "WeChat").
- In SE Asia, law firms tend to carve up Asia into NE and SE, separately from Japan; South Korea is beginning to open up
- Be available spend time; they need to get to know you and like you as a person; once a relationship is established, there is a level of confidence and familiarity.

#### Discussion:

The following questions/comments (Q/C) were offered by roundtable participants, and responses (R) were provided by the presenter:

- Q/C: In a current situation we are in with China, there is an issue of "face"; the issue has put Canada in a difficult place.
- Q/C: What about legal considerations? How does an Indigenous organization prepare to enter into these markets?
- R: It is about knowing the market you are going into. In International transactions, you can use English law. Secondarily, agreements may be pursued in local law. You need to know which law applies. English or New York Law likely applies when doing business in Asia.
- Q/C: China has a civil law approach. India has a common law approach. If a decision is brought to a Judge, it will take a long time, as the court process is lengthy. A lot of business relationships are established in Singapore.
- Q/C: We used to see Canadian companies coming in, setting up Indian businesses in Singapore.
- Q/C: Is it important to seek legal counsel before entering into a new market?
- R: It is important in many countries to have legal coursel in the country in which you are doing business. The choice of law for your agreements is important.
- Q/C: You would need a lawyer. If we had a free trade agreement up for consideration, we would suggest using Canadian law and Canadian legal coursel.
- Q/C: Japan should not be overlooked. They have a long standing trade relationship with BC. In preparing a package to present, know that the world is not "clamoning to come to Canada". You are competing for attention. In China, you may not know what the yield is until the payment is received. Japan is sophisticated. Government agencies are under-utilized. Embassies and provincial offices should be considered. Embassies are looking at content; you could get the embassies to do a presentation. In Tokyo there is a 300-seat theatre that is a good venue. Accessing the Chamber of Commerce in the country is helpful.
- Q/C: We worked with embassies in Ottawa and China. Their processes and structures were researched in advance.
- Q/C: If there is any activity on Inuit-owned land, we issue them permits. We have protocol that: applies.

#### 3.6 Matthew Coon Come, Grand Council of the Crees

Dr. Coon Come, former Assembly of First Nations National Chief and former Grand Chief of the Grand Council of the Crees, reviewed his background and experience and noted that:

- He was President of the region's government, with over 300,000 square kilometres of land
- Air Creebec connects a food distribution and other companies to the north.
- Representatives of a Cree community travelled to China seeking potential investors in Shanghai
- He was currently a director of Goldcorp.
- As National Chief his goal was to visit at least 400 of the 634 First Nations communities in Canada; many had achieved contracts or were seeking opportunities in other countries
- The windfarm SkyPower Global opened a number of opportunities in countries around the world
- A policy and protocol defines how a proponent can contact and build a relationship.
- A number of First Nations are looking for partnerships and investment opportunities outside the country, in areas including natural resources, etc.

The Co-Facilitators referenced some common threads identified throughout the presentations:

- A consolidated co-op or entity would make it easier for First Nations organizations to penetrate the Asian markets (or other markets)
- Others may have attempted to do this through a joint venture or otherwise, in response to a specific opportunity
- It would make mobilization of an entity easier, if someone came up with opportunities that Indigenous companies could respond to.

#### Discussion:

The following questions/comments (Q/C) were offered by roundtable participants, and responses (R) were provided by the presenter:

- Q/C: In terms of forming a corporate entity, ask around to find others who are interested in connecting.
- Q/C: A significant balance sheet would be appealing from the other side. If we gathered a group at this meeting, as an economic alliance, we could work together. The CCA markets Canada as a group of municipalities. They talk about what they can do in terms of joint marketing and sales. We could call this group, the "Alliance of First Nations Economic Development Agencies". We could begin with an assessment of our assets.
- R: Pulling something together before successfully entering these markets would be a significant undertaking?
- Q/C: It would be a lot of work, but it is achievable. Consideration would be needed on identifying the correct market, etc.
- Q/C: Entry through a south east Asian association could be considered.

- Q/C: How do we determine market demand?
- R: This is an area that Trade Commissioners can provide advice on, based on the value proposition.
- Q/C: Consider agri-food products, resource development or otherwise. If you outline the alliance's assets, it becomes more powerful and easier to market.

#### 3.7 Andy Chen, Director General, Taipei Economic and Culture Office Vancouver

Mr. Chen explained that the population of Taiwan was 23 million, on an island similar to the size of Vancouver Island. He added that:

- Taiwan is a democratic country.
- The current President extended an apology to Taiwan's Indigenous people; more than 95% of the Taiwanese population originated from mainland China
- The map displayed, indicated immigration routes in Taiwan
- When you visit indigenous people in Taiwan, there are similarities to some indigenous people in Canada; a delegation to visit Taiwan would provide this opportunity
- Taiwan's technology is internationally renowned; 40 years ago, Taiwan only exported bananas and sugar cane – now 1/3 of Taiwan's GDP is from micro-chip technology
- He invited delegates to visit Taiwan and extended best wishes for the Lunar New Year.

#### 3.8 Ruth Chang, Taiwan External Trade Council

Ms. Chang reviewed an overhead presentation on Taiwan's Global Competitiveness, and reported that:

- A world economic forum offered a "Global Competitiveness Report 2018" which compared Taiwan's economy in recent years
- Taiwan's foreign trade and economy valued development of local service industries, in addition to circular economy, green energy, biotechnology, national defense, smart machinery, new agriculture, and Asia's Silicon Valley
- Each year, the Taiwan External Trade Council hosts the "Taiwan Excellence Awards" which acknowledge excellence in research/development, quality, design and marketing
- Nonco biles, from the largest bicycle company in Canada, are manufactured in Taiwan.
- Some of Taiwan's largest manufacturers are Acer, Giant, Asus, Transcend.
- Taiwan accounts for a large market share of motherboards, notebooks, desk top computers, etc.
- There are 15 multi-national companies set up in global distribution centers in Taiwan
- It is convenient to fly from Taiwan to Hong Kong (1:40 hours), Shanghai (1:40 hours), etc.
- Taiwan has competitive advantages, including a strong presence in the Asian markets.
- There are a number of trade shows held each year in Taiwan, including:
  - Food-related trade shows (i.e. "Food Tape?")
  - Medical/health related trade shows (i.e. "Medical Taiwan").
  - A "Fisheries and Seafood Show", September 26-28, 2019 at Kaohsiung Exhibition Centre.
- The Taiwanese company "Blueseeds" assists local farmers in adopting natural farming to provide opportunities and to reduce exposure to chemicals; they recently opened an office in BC
- The Taiwan External Trade Development Council (TAITRA) was established in 1970, with the

intent to assist Taiwanese businesses in exporting their products, they brought delegates on international trade missions

TATTRA is supported by government and various associations

Mr. Chen added that:

- You can find solutions from Taiwan; it is the centre of the Asia Pacific
- There are connections to Taiwanese business people who have been there for decades
- Canada is an "international brand name", and is known for advanced technology (including Al)
- Taiwan has more than 160 City Mayors attending a conference in March in Taipei.
- An Indigenous delegation from Canada to Taiwan can be arranged and should be considered

#### Discussion:

The following questions/comments (Q/C) were offered by roundtable participants, and responses (R) were provided by the presenter:

- Q/C: Previously Canadian Airlines delivered lobsters from Canada to Taiwan. If a group of companies worked together, similar opportunities could be pursued.
- Q/C: In 1995, Taiwan significantly improved its air quality.
- Q/C: Consider when the Taiwan World Indigenous Forum in Taipei is scheduled.

A video was presented, prepared by the Taiwan Department of Foreign Trade.

### Next Steps

Mr. Beck referenced the Director General's invitation to bring (and cover the costs related to) a delegation of a group of Indigenous business leaders to Taiwarc

- APF Canada could coordinate the mission, after the aliance was pulled together, and assets/ narratives were defined
- About 20 years ago, Taiwan was a significant exporter of pork; their pork was cradicated following a breakout of hoof and mouth disease
- With the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTIP) the biggest market is Japan
- The park market in Asia is only going to get bigger; Taiwan has huge market opportunities
- If you organize a mission to Taiwan do something in the fall, when the weather is more pleasant; meanwhile, preparations can begin

#### Discussion

The following questions/comments (Q/C) were offered by roundtable participants, and responses (R) were provided by the presenter:

- Q/C: Carilication on when to engage a Diplomatic Office versus a Trade Commission Office?
- R: Foreign representative offices in Canada can explain the business culture and economy in another country. Taiwan does a lot of trade shows. When you work with the foreign representative's office, their networks will be different from the Trade Commissioners connections. Wayfinding is important you need to know sanitary regulations which they can help with, plus additional practical advice for travel visas.
- R: There is a Canadian trade office in Taipei, with Trade Commissioners. The Alberta Government is the only province to have a trade representative office in Taiwan. Taiwan is not part of the CPTPP; it would be easier if it was. Taiwanese people can use their drivers licenses in all provinces of Canada, but not in the territories. People in Taiwan would gladly come to Canada to see the northern lights, but cannot drive in the territories. We invite government representatives to Taiwan, and welcome the opportunity to meet with business representatives.

#### Closing Comments

Mr. Aebig welcomed feedback on the following questions, which prompted the subsequently indicated responses:

- What are your key take-aways from today?
  - We need to work together better, to add clout; if we pool our resources we can offer a broader array of services. Food and renewable energy, are two commodities that stand out.
  - a If we are serious, we need to look at our respective portfolios. It will take time to collaborate, forge relationships and identify a strategy to move forward.
  - Relationships are critical. Some of the realities that Indigenous economic development organizations face in terms of the *Indian Act* and legislation, will need to be considered.
  - c There are challenges to address at the community level. Something that appears to be a good initiative at face value, may present some unexpected challenges in a different market. It would be beneficial to capitalize on opportunities available.
  - Our structures are set up to give our partnership the ability to move forward without having to constantly check back. It may take the group time to come together, but there are opportunities to consider.
  - Are there any existing platforms in Canada where indigenous organizations can come together at a national level?
  - Consider contacting the World Chambers Network (WCN)<sup>7</sup> for information and tools to support international e-Trade. The Aboriginal Chamber of Commerce (ACC)<sup>8</sup> in Manitoba is also a source of information. There may be other Indigenous business-to-business organizations that could be leveraged.

For sylamation on the ICOS, visit: http://www.worldchambers.com

Per sylemates on the ACC, with: https://www.storiginabilouter.so

- A lot of good comments were offered on engaging in this market. Many First Nations have not initiated any economic development efforts. There may be 25 First Nations in Canada, that are active in economic development.
- A number of invited delegates were unable to attend this session, but expressed an interest in joining a future roundtable.
- What does this delegation need to remember coming out of today?
  - Focus on a particular project. I have had the most success in trade missions with Indigenous business, that were focused on something (i.e. agriculture)
  - Pursue early wins and small wins.
  - Do not go too big or too ambitious, look at something achievable in the next year
  - It is important for Indigenous economic development organizations to get to know each other; I
    anticipate five or six Indigenous businesses would be been to participate in a coalition
  - o There is a balance needed stay small enough to manage but large enough to gain interest.
  - Do not be intimidated; on a LNG trade mission in 2013 to Beijing, Seoul and Tokyo, people we met: with were aware and informed about Prince George and Kitimat
  - o Before venturing abroad, utilize resources available to assist you in getting there
  - Look towards an "Indigenous Team Canada".
  - Establish relationships; download chat apps; it only takes a few good contacts to connect with players in Asia.
  - In the 1980s, we pursued revenue-sharing opportunities. We looked at the coast of James Bay and partnered with representatives from Japan (Yamaha) to combine our Indigenous knowledge of the water, with their design technology to build larger cances.
  - We learned a lot about fur-tanning organizations in Italy, but could not pursue this direction due to the creation of synthetic fur.
  - It is important to keep the business and political arms separate. The biggest challenge for indigenous communities has been trying to find partners. It is important to be organized, have capital and gain experience by starting small.
  - o Find quick and small ways to gain and maintain momentum. An indigenous body is needed that focuses on global indigenous trade relations. It is important to build relationships without being overwhelmed by the "bigness of the map on the wall".

#### Conclusion

Mr. Willy extended thanks to the APF for initiating the discussion. He recognized that although the priority of Indigenous economic development organizations was their own First Nations' communities, the conversation prompted further consideration.

Mr. Beck commended delegates for participating in the discussion and welcomed APF Canada's role as a catalyst to continue the discussion. It was further noted that:

- To form an alliance, a financial commitment could be required.
- With a financial commitment (i.e. \$5,000-\$25,000) the right people could be involved to work towards developing a strategy to move forward with; as interest in the alliance grows, the price to participate could increase

- For example, "C100<sup>+9</sup> was established with a small financial investment by each of the original participants (a group of Canadian entrepreneurs and venture capital investors in Silicon Valley). The cost of membership subsequently increased. C100 is a non-prolit, member-driven association of Canadian thought-leaders in the San Francisco Bay Area committed to supporting and accelerating the innovation economy in Canada
- Collaboration is critical to convey a larger image, in order to proceed into Asian markets. You need to spread the costs amongst more than one institution
- Education is fundamentally important. If you proceed to something like this, it would be helpful to
  pursue post-secondary education opportunities for First Nations people. Education would be a major
  contributor to the economy
- There is a coop program that encourages young Canadians to live and work in Asia. If there are First Nations youth interested in participating in the program, it could be beneficial for the aliance.

Mr. Beck confirmed that Mr. Teng had extended an invitation to the First Nations economic development: representatives to participate in a mission to Taiwan. If there was interest in coordinating a delegation to Taiwan, efforts could proceed towards organizing a mission, potentially over the next six months.

Delegates were further encouraged to inform APF Canada if they wanted to attend the October 8-10, 2019 World Indigenous Business Forum in Vancouver, as a discussion with First Nations economic development organizations could be coordinated to coincide with the forum.

The February 13, 2019 Indigenous – Asia Pacific Business Relations Roundtable concluded at approximately 5:30 p.m.

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<sup>\*</sup> For sylvention on C100, visit: https://www.ikec/00.org

### **DISCUSSION NOTES, CONTINUED**

#### List of Attendees

The following attended the February 13, 2019 Roundwhie: Stewart Beck, President & CEO, Asia Pacific Foundation of Canada Heather Bishop, Director, Cold Lake First Mation Rosie Bolderston, Development Manager, Asia Pacific Foundation of Canada Michael Clark, Partner, MLT Ailers Darrell Crowchild, Councillor, Tsuutina Nation Matthew Coon Come, Grand Council of the Crees clint Davis, Partner, Acasta Capital Jake Duckstator, Vice-President, Bridge Financing Christian Hansen, Director, Senior Trade Consul, Canadian Trade Commissioner Service Scott Harrison, Program Manager, Asia Pacific Foundation of Canada Bryan Hughes, District Manager for British Columbia, Export Development Canada Serena Ko, Program Manager, Networks, Asia Pacific Foundation of Canada Drew Lafond, Partner, MLT Aibens Catherine Lappe, Regional Director General, Indigenous Services Canada Stephen Lee, CEO, Musqueau Capital Corporation Vilupti Lok Barrineau, VP Operations & Networks, Asia Pacific Foundation of Canada Tom Many Heads, CEO, Siksika Resource Development Rosi Niedermayer, Trade Commissioner, Canadian Trade Commissioner Service Jeff Reeves, VP Research, Asia Pacific Foundation of Canada Victor Thomas, VP Prairie Region, Asia Pacific Foundation of Canada Xenia Worg, Associate, Bernett Jones Sean Willy, CEO, Des Nedlie Development

Noderators: Jason Aebig, Creative Fire Boarrie Leask, Creative Fire

Notes prepared by: Carrie Peacock, Recording Secretary, Raincoast Ventures Ltd.

# INVESTMENT MONITOR 2019

REPORT ON CITY-LEVEL FOREIGN DIRECT **INVESTMENT BETWEEN** CANADA AND THE ASIA PACIFIC



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## MESSAGE FROM THE PRESIDENT & CEO, ASIA PACIFIC FOUNDATION OF CANADA



The increasing significance of the Asia Pacific as the driver of the new global economy underscores the need for Canada to strategically deepen and diversify its two-way investment links with this vital region.

Canada has been fortunate to have strong trade and investment partness in the United States and Europe, and those links will evolve but endure. But as Canada pirots to new Asian markets as part of its national trade diversification strategy, both policy-makers and the public have begun turning their attention to the foreign direct investment (FD) flowing in and out of Canada. A number of questions

permente the discussion – and debate – around FDI: What amount of firrign investment comes into Canada, or flows into the Asia Pacific? Where does this investment come from, and where does it go?

This year, the Investment Manitar shifts its attention to Canadian and Asia Pacific FDI at the city level. New trends captured by the Investment Manitar show that Canadian cities are themselves buhs of activity and engagement, and are helping foster wider economic connectivity between Canada and Asia. It is our hope that this year's report, by better eggregating and cataloguing investment trends at the city level, will fill the gap in the data that is otherwise publicly available, and support business, government, and ciril society as they navigate Canada's necessary pivot to Asia.

On behalf of APF Canada, I would like to acknowledge the efforts of those involved in producing this report, especially our partner, The School of Public Policy at the University of Calgary, and our sponsors – AdvantageBC, the Bank of Canada, Export Development Canada, the Government of British Columbia, and Invest in Canada. I would also like to extend my appreciation to our Advisory Council members – Sarah Albrecht, Bugene Beaulieu, Kursti Calder, Loui Rennison, Clark Roberts, Siebian Smith, and Stephen Tapp – for the valued feedback they have provided.

And finally, I would like to thank the members of our APF Canada research team who were responsible for writing and finalizing this report: Jeffrey Reeves, Vice-President, Research; Pauline Stern, Program Manager, Trade, Investment, and Innovation; Grace Jaramillo, Interim Program Manager, Trade, Investment, and Innovation; our Post-Graduate Research Scholars and Junior Research Scholars, Kai Valder, Bettcher, Mohit Verma, Nicole So, and Isaac Lo; and, APF Canada's communications team for editing and designing the final publication, Michael Roberts, Communications Manager, and Sanya Arora, Graphic Designer.

#### Stewart Lode,

President and CEO, Asia Pacific Foundation of Canada

### EXECUTIVE SUMMARY

The Asia Pacific is home to many of the world's must dynamic and fastest-growing economies, and beasts unprecedented opportunities for foreign investment in a number of key markets – in terms of both opportunities for Canada to receive foreign investment and opportunities for Canadian investors to invest abroad. While there is anacdotal evidence to suggest that investors from Canada and the Asia Pacific are indeed crossing the Pacific, a lack of reliable public data makes it difficult to determine the volume, scale, or scope of the investments. To address this gap, the Asia Pacific Foundation of Canada (APF Canada) partnered with The School of Public Policy at the University of Calgary. The APF Canada Investment Munitor aggregates raw data from APF Canada's archive of investment deal announcements from 2003 to present (see methodology section for further details). Each year of the project corresponds with an annual thems; this year's theme is two-way investment ties between cities.

Data from the APF Canada Investment Munitor shows that Asia Pacific investment into Canada has grown in spurts from 2003 to 2018. The main sources of investment into Canada from the Asia Pacific are Mainland China, Japan, and Hong Kong, representing nearly 73 percent of the investment flows from the region to Canada. Canada's natural resources industries, namely the energy industry and mining and chemicals industry, attracted the must investment. Even though the value was considerably larger for these two industries, the number of deals in other industries, such as consumer goods and services, technology, industrial goods and services, finance, and agriculture and forestry, accounted for nearly 69 percent of the intel number of deals completed between 2003 and 2018.

At the provincial level, Asia Pacific investment focused primarily on the four provinces with the largest economies over this period – Alberta, Ontario, BC, and Quebec. Each of these provinces attracted different types of investment. BC and Alberta attracted more energyrelated investments; Ontario, automobiles and electricity; and Quebec, mining, Canada's remaining provinces and territories have seen little investment, and that was primarily in oil and gas producers.

Overall, 165 cities and city-level regions in Canada have received investment from the Asia Pacific in the 2003 to 2018 period, each with a unique investment story captured by the APF Canada Investment Monitor. Surprisingly, the relative rankings of destinations abow that many smaller Canadian communities punch above their weight when compared to much larger cities. Three cities - Calgary, Kitimat, and Vancouver - accounted for the majority of investment, mainly due to large investments in energy and mining. Vancouver, Torunto, and Calgary also brought in over 40 percent of the total number of deals over the period. Of the 15 largest destinations for Asia Pacific investment, eight are in the west (Alberta and BQ, five in Ontario, with an additional one each in Quebec and Newfoundland and Labrador. Many of the top destinations for investment in Alberta, BC, and Newfoundland and Labrador. rank high due to a small number of large deals in oil and gas production, while repeated investments in the automotive industry led to several Ontario destinations also ranking high.

Canada's investment into the Asia Pacific remained relatively flat into the mildle of this decade, only to grow dramatically in the most recent years. The main destinations for Canada's investment into the Asia Pacific are Anstralia, China, and India, representing nearly 63 percent of the investment flows from Canada to the Asia Pacific. The main industries that Canada invested in were the finance industry and the mining and chemicals industry. Even so, all other industries accounted for over 61 percent of the total number of deals completed from 2018.

At the provincial level, intrestors from Ontario, BC, Alberta, and Quebec were the most active in Asia Pacific markets. Intrestors from Ontario focused their investment on financial and transport services, investors from BC and Quebec focused their investment on mining, and intrestors from Alberta focused their investment on energy. While investors from Canada's other provinces and territories made noticeable investments in mining, these provinces drastically lagged behind the rest of the country in outward investment overall.

Canada's investment footprint in the Asia Pacific is extensive, with 465 cities in the region receiving Canadian foreign direct investment over the last 16 years. Four cities – Melbourne, Sydney, Hong Kong, and Parth – received nearly 27 percent of Canada's investment into the region, with a diverse basket of industries invested in between them. Additionally, Beijing, Hong Kong, Shanghai, Singapore, and Sydney received nearly 24 percent of the total number of deals from 2013 to 2018. Of the top 12 destinations for Canadian investment in the Asia Pacific, four are in Australia, three in China, three in South Asia, and two in Southeast Asia. In many cases, Canadian state-owned enterprises investing in real estate and transportation infrastructure have driven Canada's largest investments in these cities. By looking down to the city level, the AFF Canada Investment Monitor data also above how some of the higgest destinations for Canadian investment are likely unfamiliar to many Canadians: names such as Gopalganj, Xuyên Môc District, and Gove Paninsula.

Although Canada's investment relationship with the Asia Pacific has grown moderately over the past 16 years, the Asia Pacific remains for behind other sources of investment into Canada, and Canada represents only a small share of investment in the Asia Pacific. Canada needs to continue to leverage its strengths and build stronger ties with the region in the future in order to improve market access and position itself as an important interstor in and investment recipient from the diverse economies that make up the Asia Pacific. APF Canada and The School of Public Policy at the University of Calgary hope that the APF Canada Investment Munitor will shine a spotlight on Asia Pacific investment in Canada and encourage a greater understanding of how this investment contributes to Canada's current and future economic prosperity.

### INTRODUCTION

#### The Growing Importance of Investment to and from Asia

The role of the Asia Pacific in the world has never been as hig or as important in modern times as it is tailay. Continuous growth across the Asia Pacific has been met with significant flows to and from the region. Previously led by Japan, Australia, and South Korea, China is now the main economic driver of the region following record-breaking economic growth over the past 20 years. China's rise in wealth has occurred alongside rapid economic shifts across Southeast Asia, as countries like Vietnem, Thailand, and Malaysia, once primarily recipients of foreign aid, begin to pique interest as investment destinations and participate in multilateral trade deals.

Observers forecast that the Asia Pacific will continue to cament its position as the centre of the global economy over the next 30 years. By 2030, the region is expected to encompass 65 percent of the world's mildle chas<sup>1</sup>, and by 2050, the region will contain four of the world's 10 largest economies; according to PwC, China and India will both overtake the United States in terms of grass domestic product (GDP) at purchasing power parity.<sup>2</sup> Indonesia, currently ranking eight, is expected to become the fourth-largest economy by 2050 and will take Japan's current spot, with Japan in turn expected to drop four spots and take Indonesia's current spot at eight. Accordingly, the Asia Pacific is increasingly becoming a major source of investments for Canada. While investments from Japan and Australia are king established and at a sustained level, the majority of investments new originate from China from both private and state-owned enterprises.

At the same time, the foreign investment landscape that we have become accustomed to is changing. As a wave of nationalism sweeps through western democracies, sentiments taward foreign investment are changing, forcing foreign firms to recursider their approach to foreign investments. A significant change within the past five years is the United States' rule as a "safe" destination for investments, as the current US administration has adopted an increasingly nationalistic approach to foreign investments. With all this combined, the Asia Pacific is becoming both an increasingly attractive destination for companies wanting to diversify away from traditional investment destinations such as the United States, the United Kingdom, and Burope and an important source of investment capital for occurrings around the world.

Cities are the spicentres of Asia Pacific investment activities in Canada. From 2003 to 2018, Asia Pacific investors channelled more than C\$678 in Canada's four must populous cities – Torunto, Montreal, Vancouver, and Calgary. These investments fuel economic growth, induce technological "spillower," increase productivity, and support job creation in the cities.<sup>4</sup>

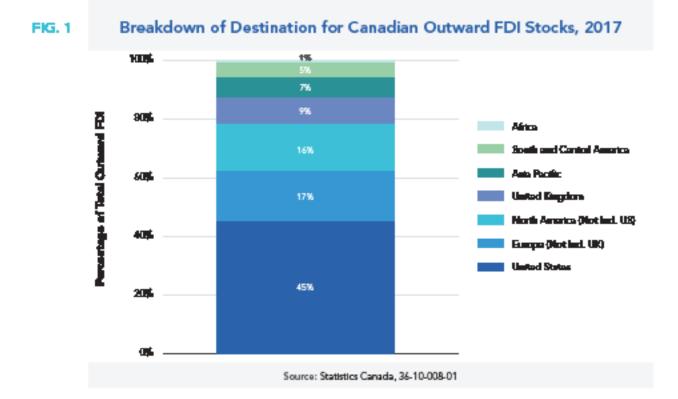
<sup>&</sup>lt;sup>1</sup> Hann, The Reproducted Reports of the Oxford Middle Charry in Typics, Readings Seatists, Interney 2017, <u>https://www.interneting.orb/</u> up-catust/opinet/2017/02/gibbs/20170721\_gibbs/widdle-chargeT

<sup>\*</sup> No.C. The World in 2050. https://www.pow.com/go/web/acids/2050/acate/powella-world-in-2050. foll-copert-foll-2017.pdf

<sup>&</sup>lt;sup>2</sup> Jacob Taroh d'Cambé Majo Citin in Attenting Parige Direct Investment, Cashance Barri of Cambe, May 2012. <u>http://www.</u> sedana charri cele Hany Alatant ng 2661–607.

#### How Canada Stacks up in its Investment Relationship with Asia

While Canada has enjoyed many aspects of its position next to the world's largest economy, the United States, this strategic positioning has come at the cost of investment diversification. In terms of its investments abread, Canada in 2017 sent 45 percent of its total investments abroad to the United States and 24 percent to the European Union, the latter of which included 9 percent of Canada's total going to the United Kingdom. The Asia Pacific, despite having a larger population and covering a larger geographical area than the European Union, accounted for only 7 percent of Canadian investment abroad.<sup>4</sup>



#### \* Statistics Canada, Table: 98-3.8-80(0)-81, 2008.

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#### FKG. 2

#### Share of Total Inward Foreign Direct Investment from the Asia Pacific for Select Countries, 2017

Country	% of Total Inward Foreign Investments
Australia	17.6%
U.S.	17%
New Zealand	9.4%
Canada	9.3%
U.K.	9%
France	3.4%

Source: Australian Bureau of Statistics; Bureau of Economic Analysis (U.S.); Stats NZ Tatauranga Aotearce (New Zealand); Statistics Canada; Office for National Statistics (U.K.); Banque du France

In 2017, intrestments from the Asia Pacific made up 9.3 percent of Canada's total inward foreign direct intrestments (FDI). A similar level of inward foreign direct intrestment from the Asia Pacific was seen in New Zeeland and the United Kingdom at 9.4 percent and 9 percent, respectively. This value was as low as 3.4 percent in France and as high as 17.6 percent in Australia. For comparison, investments from the Asia Pacific amounted to 17 percent of the United States' total inward foreign direct investments in 2017; investments from Canada accounted for 11 percent of total foreign direct investments.

Even through investments from the Asia Pacific mode up less than 16 percent of Canada's total inward foreign direct investment, the amount Canada received was comparable to other developed countries of similar economic size. Likewise, the Asia Pacific region receives less in terms of investment amount from Canada than it does from the United Kingdom. In terms of furthering investment opportunities, Canadian businesses looking to invest abread now have non-discriminatory access to key Asia Pacific economies such as Japan, Anstralia, New Zealand, and Vietnam through the implementation of the investment chapter of the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP). This is on top of Canada's five foreign investment promotion and protection agreements (FIPA), also known as bilateral investment treaties (HITs), with Asia Pacific economies including Chine, Hong Kong, Mongulia, the Philippines, and Thailand. While Canada's Asia Pacific network of free trade agreements (FTA) and HITs is especially strong when compared to the United States' three BITs with Asia Pacific countries, it ranks far behind the United Kingdom, France, and Australia who have 16, 14, and 9 BITs with Asia Pacific economies, respectively.<sup>6</sup>

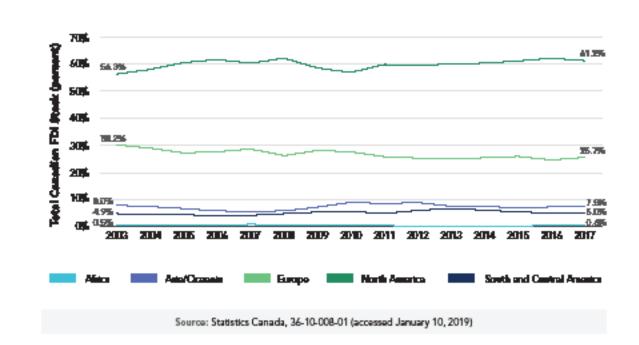
<sup>1</sup> Onital Mation Conferences: Work and Kevelapanet, Externational Severant Agreements, Severant Helizy Bals.

There are still plenty of opportunities for Canada to further investment opportunities with the Asia Pacific, and one possible avecue could be through expanding its current list of BITs. Canada currently does not have any agreements related to investments with Indonesia and is currently still in negotiations for a bilateral investment treaty with India. While an investment agreement does not guarantee greater investments between Canada and any partner economy, having an agreement in place can make regulations and treatment of investments in each party's jurisdiction clearer for Canadian businesses.

#### What Official Statistics Cannot Tell Us

FIG. 3

Despite the importance of FDI to the Canadian economy, little information is publicly available about foreign investment in Canada in terms of the number of deals, size of investment values, and distribution across regions and industries. While Statistics Canada, Canada's national statistical agency, provides information on investment flows, it does not paint a complete picture of Canada's foreign direct investment ties with the Asia Pacific.



#### Official Statistics on Canadian FDI Stock Abroad, 2003–2017

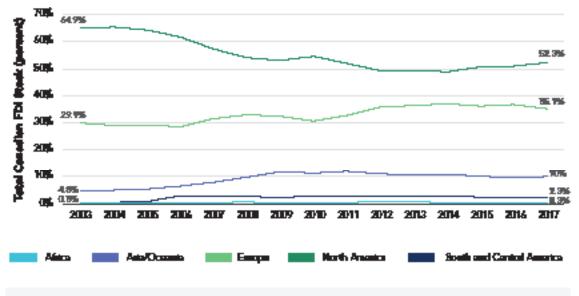


**FIG.4** 

Source: Australian Bureau of Statistics; National Bureau of Statistics of China; JETRO (Japan); Statistics Singapore

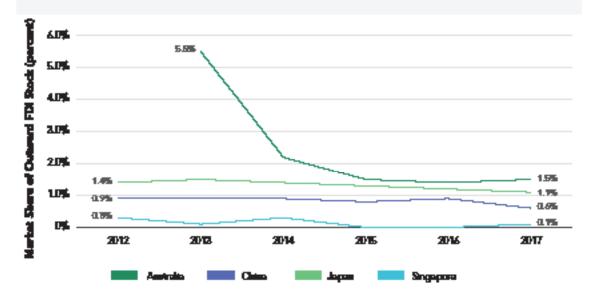
Official statistics across the region show that Canada is a small investor in the Asia Pacific. Data from the official statistics bureaus in Chine, Japan, and Singapore show that Canada's market share of investment into Asia Pacific economies has been fluctuating between 0.5 percent to 1.1 percent for the past five years, while Canada's market share in Australia's inward FDI stock has steadily increased since 2013, but is still only just above 4 percent.

#### Official Statistics on Asia Pacific FDI Stock in Canada, 2003–2017



Source: Statistics Canada, 36-10-008-01 (accessed January 10, 2019)

#### FIG. 6 Canada's Share of Select Asia Pacific Economies' Total Outward FDI Stocks, 2012–2017



Source: Australian Bureau of Statistics; National Bureau of Statistics of China; JETRO (Japan); Statistics Singapore

#### FIG. 5

Likewise, when it comes to Asia Pacific investment into Canada, the region's official statistics bureaus in China, Japan, and Singapure show that their investment into Canada has remained more or less consistently marginal, while the proportion of Australian outward FDI destined to Canada has decreased from 5.5 percent in 2013 to 1.5 percent in 2017.

Official statistics show investment stock at a national level and use a top-down approach based on the international standard balance of payment calculations, which official statistics bureaus generate from banking system reports and direct surveys. However, the broad-level public data from Statistics Canada is often unable to capture the ultimate sources and destinations of inbound and outbound investments, the subnational-level data (namely, investment ties at the provincial and city levels), and the industry breakdown of investment from each Asia Pacific ecunomy.

The lack of publicly available data on the volume, scale, and scope of Asia Pacific investment in Canada has important effects on the public perception of investment relations between the two regions. For example, according to the 2016 National Opinion Poll conducted by the Asia Pacific Foundation of Canada (APF Canada), Canadians estimated that FDI from China made up 25 percent of Canada's total invested direct investment, while the actual figure at the time was closer to 3 percent. The polling further showed that this misperception of the size of Chinese investment in Canada is also tied to the negative opinion on foreign inbound investments, as Canadians who significantly overstated the value of Chinese investment in Canada were also more likely to say Canada has allowed "too much" investment into the country from China.

#### The APF Canada Investment Monitor Fills the Gap

Given the limitations in the official statistics, the purpose of the Investment Monitor is to complement Statistic Canada's investment data in order to provide a more comprehensive picture of the two-way investment relations between Canada and the Asia Pacific. APF Canada has partnered with The School of Public Policy at the University of Calgary to develop its Investment Monitor and to track foreign direct investments at the establishment level. This has enabled the APF Canada Investment Monitor to add further detail beyond that available from official statistics and to unveil key trends in Canada's investment ties with the Asia Pacific.

The inaugural Investment Monitor 2017 report looked at investment from the Asia Pacific in Canada, while the Investment Munitor 2018 report focused on Canadian outbound investment into the Asia Pacific. The reports depicted key trends on the sources of Canadian inbound and outbound investment from the national and provincial perspectives, as well as investment destinations in the Asia Pacific from the national perspective.

This year, the Investment Monitor 2019 annual report focuses on both inbound and outbound foreign direct investment between Canada and the Asia Pacific, while also highlighting key trends in the two-way investment ties at the national, provincial, and city level.

#### BOX 1. CROSS-BORDER INVESTMENT AND FDI

Cross-border investments can be separated into two major groups: 1) foreign portfolio investment (FPI) and 2) foreign direct investment (FDI).

#### 1. FOREIGN PORTFOLIO INVESTMENT (FPI)

FPI is considered a temporary investment by a resident or enterprise of one economy into a financial asset of another economy. This investment involves a noncontrolling stake in an enterprise in the form of equity and/or debt securities as well as loans. For example, a resident of Australia buying a small share of stock on the TSX would be considered FPI.

#### FOREIGN DIRECT INVESTMENT (FDI)

FDI is defined as a long-term or lasting-interest investment by a resident or enterprise of one economy into a tangible asset of another country. This type of investment is deemed "long term" or of "lasting interest" if it is either a greenfield investment or an acquisition of at least 10 percent of the equity or voting shares of an enterprise. This 10 percent threshold is considered a controlling interest in an enterprise and is what primarily distinguishes FDI from portfolio investment, since it usually coincides with a transfer of management, technology, and organizational skills along with capital. For example, a Japanese firm buying a 20 percent stake in a Canadian pulp mill would be considered FDI.

Source: AFF Canada Investment Monitor

### **CHAPTER 1: THE NATIONAL PICTURE**

### **Key Section Takeaways**

- Today's investment stories and landscape are very different from those of the post-global financial crisis (2007–2010, and even 2011–2014).
- The oil and gas, basic resources (mining), and automobile and parts sectors continued to dominate foreign direct investment into the Canadian economy, but there is also increased diversification into the real estate, financial services, and technology services sectors.
- China, Japan, Hong Kong, and Australia continued to be the key investors from the Asia Pacific into Canada.
- Canada is investing in Asia Pacific's mining, industrial transportation, real estate investment and services, and electricity sectors, particularly in Australia and China.

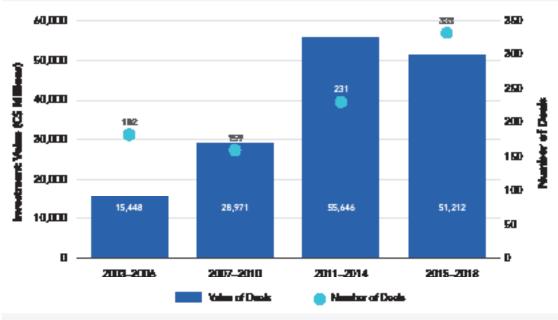
### National Discussion on Fluctuation and Partners

Over the past 16 years, investment from the Asia Pacific grow substantially in both volume and activity. For the period from 2003 to 2018, the APF Canada Investment Monitor captured C\$151B in investments from the Asia Pacific into Canada through 905 deals from 14 Asia Pacific economies. Despite international economic tansions making significant global headlines in 2018, APF Canada Investment Monitor data shows that Asia Pacific investment in Canada has grown nine-field over the past 16 years.

From 2015 to 2018, Canada continued to receive high foreign direct investment from the Asia Pacific, at C\$51.2B over those four years, and additionally received the highest comber of recorded deals (333 deals). The particularly high foreign investment dollar value stems in large part from a C\$40B investment to build an export facility in Kitimet, BC. Of this deals dollar total, 60 percent (C\$24B) was by Asia-based oil companies involved in LNG Canada – a joint venture between Shell, Petrunes, PetroChina, Mitsubishi Corporation, and Koree Gas Corporation.

The trend of large investment deals from multipational corporations, particularly into Canada's natural resources sectors, is consistent with the investment patterns from previous years and periods. For enample, the exceptionally high foreign direct investment Canada received in the post-financial crisis period (from 2011 to 2014) was driven in large part by a few large multipational corporation deals, such as Mitsuhishi Group's C\$3.28 investment in 2012, China National Offshore Oil Corporation's C\$16.78 investment in 2013, and Australia's Woodside Recey's C\$2.28 investment in 2014. This resulted in large differences in year-to-year investment flows, and even across four-year periods. Despite the increased directification into other sectors such as real estate, financial services, technology services, and pharmaceutical, oil and gas sectors continue to dominate Asia Pacific investment in Canada.

#### Canadian Foreign Direct Investment Received, 2003–2018



Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)



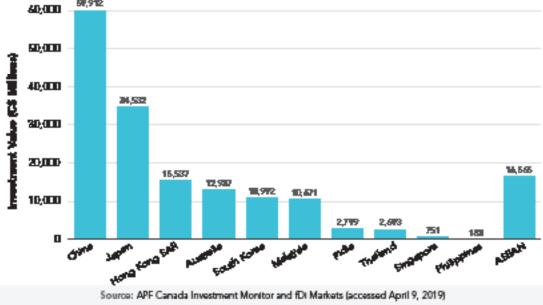


FIG. 7

From within the Asia Pacific, China, Japan, and Hong Kong were the top investor sourceeconomies from 2003 to 2018. From 2003 to 2018, China invested over C\$59.98 in Canada, Japan invested C\$34.58, and Hong Kong invested C\$15.58. The scale of Chinese investment into Canada has been sporadic. China has invested significantly into Canada's energy and mining industries since 2009 (currently valued at more than C\$458) and exhibited an extraordinary peak in the year 2013 at over C\$178. Although investments from Chinese firms continued to dominate the Canadian resources industries, investments in the past three years showed increased diversification into Canada's real estate and health care sectors. Japan's market share in the Canadian economy was consistently strong, particularly within Canada's automotive sector. However, Japanese investment into Canada declined from 2003 to 2018. More recently, Japanese investment diversified into the retail sector, with players such as UNIQLO and Muji. Hong Kong had also been a significant investor into Canada's energy sector. In the last three years, Hong Kong's Husky Energy made significant investment (over C\$48) in Canada's oil and gas sector in Saskatchewan and Newfoundland and Labrador.

Southeast Asian nations such as Singapore and the Philippines invested more into the Canadian economy, but the Association of Southeast Asian Nations (ASEAN) as an economic region still lagged behind the other Asia Pacific economies and captured only 5 percent of the inbound market share. ASEAN is one of the world's fastest-growing economic regions and the Asia Development Bank has estimated its 2018 GDP growth rate at 5.1 percent, illustrating both a gap and an opportunity for Canada to strengthen its two-way investments with ASEAN and other emerging economies.

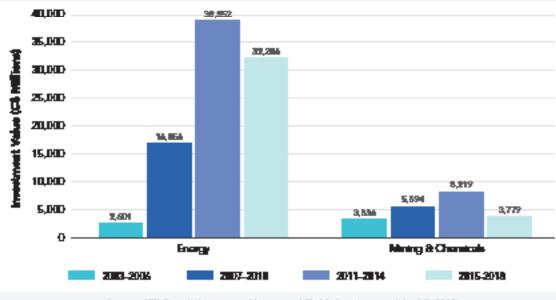
Although Canada expressed a growing interest in diversifying trade and investment opportunities beyond its traditional economic partners, Canada's shift toward other markets over the past 1D years was modest. According to AFF Canada's 2018 National Opinium Foll, there is an inverse currelation between perceptions of a worsening Canada-US relationship and increased public support for forther diversifying Canada's economic engagement with the Asia Pacific – Canadians showed greater support for diversifying Canada's economic engagement with the Asia Pacific. In the 2018 polling, 60 percent of Canadians agree that "the growing importance of Chine as an economic power is more of an opportunity than a threat," whereas when the same question was asked in 2014, only 27 percent of Canadians agreed. As mentioned previously, Canada currently has only five FIPAs in force with the Asia Pacific economies: China, Hong Kong, Mongolia, the Philippines, and Thailand. Yet, key foreign direct investments from Asia Pacific economies in Canada were from China, Japan, Australia, and South Korea.

#### Asia Pacific Investments in Canada's Sectors: Natural Resources Dominate, Despite Decline

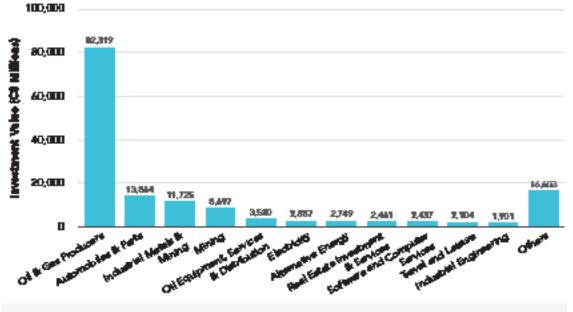
Asia Pacific investment dollar volumes continue to be deeply tied to Canada's natural resource-based industries (energy, mining, and chemicals), which accounted for 74 percent (C\$111B) of the total value of investment from 2003 to 2018. However, the energy and mining and chemical sectors experienced a significant drop in investment volumes and values in the last six years, since the purchase of Neuen by the China National Offshure Oil Corporation in 2013. The last six years' decline in investment occurred in a context of declining community prices and a lack of large-scale investments matching the Neuen deal.

FKG. 7

#### Asia Pacific Investment in Canada's Energy, Mining & Chemical Industries, 2003–2018



Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)



Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

The trend of large investments from multinational corporations was seen in the automobile and parts, foods and beverages, real estate, and software and computer sectors as well. Notable examples included Japan's Toyota Group's C\$708M expansion in Woodstock, Ontarie, in 2018; Japan's Sappero Holding's C\$400M acquisition of Sleeman Breweries in 2006; China's Greenland Group's C\$400M residential development project in Toronto; and India's Tata Group's C\$292M acquisition of Teleglobe International Holdings in Montreal.

Within Canada's natural resources industries, there was very low investment from the Asia Pacific in agriculture and forestry. India-based Aditya Birla Group's purchase of the assets of Terrace Bay Pulp Mill in Ontario for C\$279M in 2012 was the largest deal in the agriculture and forestry industry. There were no investments in agriculture and forestry between 2016 and 2018.

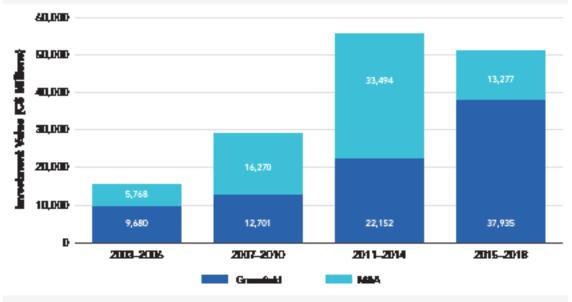
Although Canada's natural resources industries were the significant driver of investments from the Asia Pacific, investments in consumer goods and services, industrial goods and services, and the finance and technology industries are growing. Specifically, there was high investment activity from the Asia Pacific in Canada's automobile and parts sector (C\$13.3B), real estate investment and services sector (C\$2.5B), and the software and computer services sector (C\$2.4B). Japanese automotive giants Honda, Toyota, and Nissan, as well as Hyundai, the Korean automaker, were heavy investors in Canada's automotive industry for automobiles and parts.

The real estate investment and services sector and the software and computer services sector showed the greatest growth in the last four years. Chine and Hung Kong were strong investors in Canada's real estate investment and services sector in BC and Ontario. For example, Canada's Intergulf Development Group and Chine's Modern Green Development Corporation have partnered to develop the Oakridge Transit Centre for TransLink Canada for C\$450M. For the software and computer services sector, Canada sew the highest investment dollars from the Asia Pacific, valued at C\$449M. In addition to giants such as South Korea's Samsung Group and LG Corporation, Japan's Fujitsu, and India's Mahindra Group, Chine's Alihaba and Beijing Xianju Technology Co. invested in Canada's technology sector. In 2018, Chine-based Didi Chuning, a transportation network company operating under Beijing Xianju Technology, invested C\$119M to build a research facility for artificial intelligence and intelligent driving in Torunto.

#### Method of Entry: Greenfield Dominant, but Growth in M&As

Greenfield remained the preferred investment method from Asia Pacific-based companies, but increasingly, investors are shifting their mode of entry from greenfield to mergers and acquisitions (M&A). From 2003 to 2018, there were 581 greenfield investment deals and 324 M&A deals. Although there were more greenfield investment deals, M&A investment was growing rapidly. For example, comparing the period from 2015 to 2018 with its previous period (2011 to 2014), the number of greenfield investments only grew by 26 percent, whereas the number of M&A deals increased by 77 percent. In 2017, there were more M&A deals made than greenfield deals, which had only ever occurred in 2009 and 2013.

#### FIG. 11 Asia Pacific Economies' Greenfield and Merger & Acquisition Investment in Canada, 2003–2018



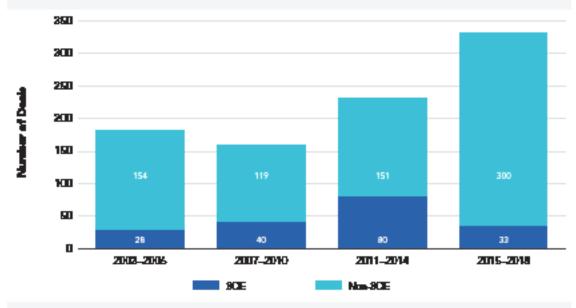
Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

From 2XI3 to 2D18, the Asia Pacific economies invested a total of C\$82.48 in greenfield investment and C\$68.88 in M&A investment. Japan, China, and Malaysia were the largest players for greenfield investments. About 36 percent of greenfield investments were from Japan (valued at C\$308), followed by China at 24 percent (C\$208) and Malaysia at 12 percent (C\$108). For M&A investments, the top players were China, Hong Kong, and Japan. China accounted for 58 percent of all M&A investments (C\$408), followed by Hong Kong at 12 percent (C\$88) and Japan at 7 percent (C\$58). In terms of the number of deals, the top economies investing into Canada through greenfield investments are Japan (207 deals), China (142 deals), and Australia (68 deals). The top economies for M&A investments into Canadian markets are China (102 deals), Japan (53 deals), and Australia (53 deals).

#### State-Owned Enterprises in Canada: Despite the Public Attention, a Declining Factor

In the past five years, there has been a significant decline in investment from Asia Pacificbased foreign state-owned enterprises (SORs). Although the C\$16.78 acquisition of Nezen by Chinese SOE China National Offahore Oil Corporation made headlines in 2013, SOE investment from the Asia Pacific has fallen since that year. In the period from 2011 to 2014, there were 80 Asian SOE investment deals made in Canada with a collective value of C\$39.68. In contrast, only 33 deals were made from 2015 to 2018, valued at C\$20.48.

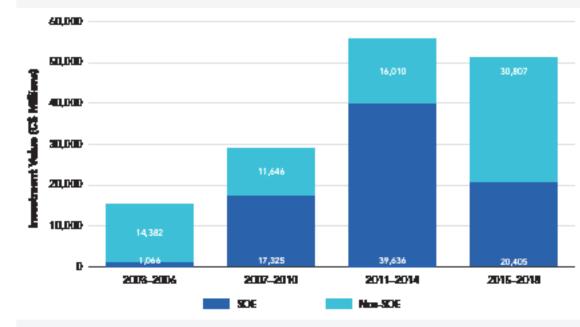
#### FIG. 12 Number of Asia Pacific Economies' SOE Investment Deals in Canada, 2003–2018



Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

21

National polling showed Canadians were nervous about foreign investment from SORs in Asia. In APP Canada's 2016 National Opinion Poll, survey results showed there was never a majority in favour of SOE investment from any Asia Pacific commins. For example, 84 percent favour a private investment from Anstralia, while only 44 percent favour a stateowned investment. For China, a majority (51 percent) favour a private investment, while only 11 percent favour a state-owned investment. While Canadians were relatively positive on private investment from Asia, polling found that they were more cautions toward investment from SOEs.



#### FIG. 12 Asia Pacific Economies' SOE Investment in Canada, 2003–2018

Despite the public sentiment toward foreign SOEs, SOE investment accounted for half of the investment from the Asia Pacific and was valued at C\$78.48. Non-SOE investment from 2003 to 2018 was valued at C\$72.88. According to the Investment Monitor data, about 97 percent of SOE investment was in the natural resources industry, with Alberta's energy sector exhibiting the highest investment in values and activities. Canada's energy industry brought in C\$63.78 of investment from Asia Pacific SOEs (accounting for 81 percent of the SOE investment from the Asia Pacific to Canada), while the mining and chemical sector brought C\$12.28 of investment (accounting for 16 percent of the SOE investment from the Asia Pacific to Canada).

Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

The SOE investment in Canada was largely driven by the Chinese, Malaysian, and South Korean economies, respectively. Canada saw C\$47.58 of investment (61 percent of all SOE investment) from China, followed by C\$12.88 (16 percent) from Malaysia, and C\$5.88 (7 percent) from South Korea. In contrast, for non-SOE investments, the major Asia Pacific economies were Japan, China, and Australia, with cumulative investment values at C\$31.48 (43 percent), C\$12.48 (17 percent), and C\$11.68 (15 percent), respectively, from 2003 to 2018.

#### BOX 2. FDI DEALS ARE NO LONGER JUST FDI DEALS

On July 20, 2017, Shenzhen-based Hytera Communications Co. completed the purchase of Vancouver-based Norsat International Inc. for C\$85.2M. What seemed like an ordinary deal on the surface ended up being the centre of a media storm fuelled by comments made by US security officials regarding the deal. With respect to sovereignty related to business deals done within one's own borders, the comments coming from the United States regarding Canada's apparent "jeopardizing [of] its own security interests to gain favour with China" appeared to violate Canada's freedom to pursue its own economic agenda. However, it seems investment deals coming out of China into Canada and North America in general are being increasingly politicized and scrutinized for concerns regarding potential national security threats, especially for deals involving SOEs or those with strong ties to the Chinese government.

This was the case for Hytera's acquisition of Norsat, with concerns that client information from Norsat's previous dealings with the US and Taiwanese militaries could be compromised following the acquisition. Anbang Insurance Group Co. Ltd.'s purchase of Retirement Concepts, the owner of several long-term care facilities in BC, was also scrutinized by security pundits after Anbang faced issues in the United States when regulators attempted to trace the ownership and leadership structure within Anbang. The Anbang deal was automatically reviewed by the Investments Canada Act due to the size of the deal. Reports following the decision, however, highlighted that the Anbang acquisition passed the national security review part of the overarching review.

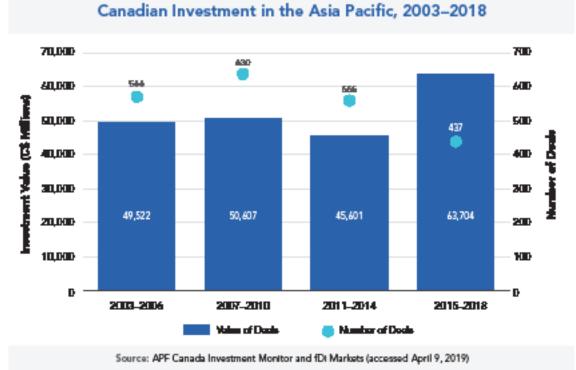
A proposed acquisition of Calgary-based Aecon Group Inc. by China Communications Construction Co., a Chinese SOE, in October 2017 was also scrutinized by security analysts and government officials in both the United States and Canada. The deal was eventually blocked seven months later by the Canadian government following a full national security review. Had the deal gone ahead, Aecon would have been barred from bidding on the construction contract for the Gordie Howe International Bridge connecting Windsor, Ontario, to Detroit, Michigan, a key trading point between the United States and Canada and a project Aecon was actively pursuing. Aecon eventually signed on to the bridge contract, after the deal with China Communications Construction Co. was blocked. Questions now arise about Canada's ability to continue promoting itself as a friendly destination for Chinese FDI, a major initiative set forth by the current federal Liberal government and several of Canada's provinces. Rising national security concerns expressed by four of the Five Eyes intelligence sharing coalition (Canada being the remaining fifth) in regard to Chinese FDI puts pressure on Canada to follow suit. On the flipside, however, the Chinese government has expressed displeasure at having deals originating from its country being reviewed, and officials have gone as far as calling for retaliatory measures in response to blocking Chinese FDI. Now with ever-rising security concerns in western economies, the Canadian government must choose whether it should have a firmer stance on FDI flows from SOEs or let the market take its course.

#### Canadian Investment in the Asia Pacific: Fewer Deals, but More Dollars

In the past three years, there was a decrease in the number of Canadian investment deals in the Asia Pacific. However, Canadian businesses are investing more dollars. Although the number of deals made between 2015 and 2018 dropped by 21 percent, from 555 deals to 437 deals, compared to its preceding period (2011 to 2014), the value of Canadian investment in the Asia Pacific had increased by 40 percent, from C\$46B to C\$64B.

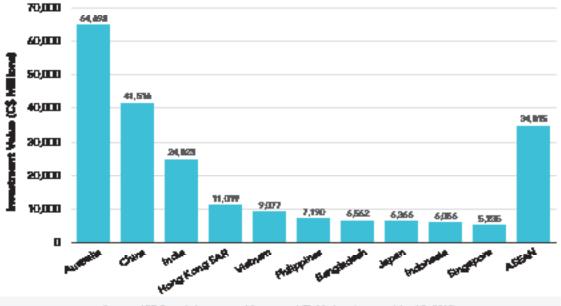
In terms of investment values, Canadian companies have been investing in the natural resources-based industries in the Asia Pacific economies. The top sector for investment was mining. This sector consists of general mining, gold mining, mining for platinum and precious metals, and mining for diamonds and generales. From 2003 to 2018, the mining sector accounted for 1D percent (C\$22B) of all investments. The top countries that Canada's mining sector invested in were Australia, the Philippines, and Indonesia, for the bighest dollars of investment, and China, Australia, and Mongolia for the bighest number of investment deals. Canada invested more than C\$BB in Australia's mining sector, over C\$4B in the Philippines' mining sector, and over C\$2B in China's mining sector. To date, Canada has 14D deals in the mining sector with China, 127 deals with Australia, and 49 with Mongolia.

Outside the natural resources industries, Asia's industrial transportation sector and its real estate investment and services sector new increased investment from Canadian businesses in the last four years. Within the industrial transportation sector, Canada invested over C\$200, particularly in the Australian and Chinese economies. Anstralia saw the most dollars (C\$11.80) invested by Canadian companies such as Toronto-based Brockfield Asset Management Incorporated, while China had the highest number of deals (26 deals) and was the second highest (C\$48) in terms of dollars invested in the sector. Canada also invested over C\$19B in the Asia Pacific's real estate investment and services sector, with Australia, China, and India as the leading destination economies. The year 2018 saw the greatest investment from Canada into the Asia Pacific's real estate investment and services sector in both volume and activity, valued at C\$5.9B over 14 deals. The growth was largely driven by Canadian state-owned enterprises' outbound investments in Australia's real estate sector, such as from the Canada Pension Plan Investment Reard (CPPIB) and the Ontarin Municipal Employees Retirement System.



#### FIG. 14

#### FIG. 15 Canadian Investment in the Asia Pacific by Major Destination, 2003–2018



Source: APF Canada Investment Monitor and (D) Markets (accessed April 9, 2019)

Overall, the top destinations for Canadian outbound investments remained Australia, China, India, and Hong Kong. The Investment Monitor data captured C\$64.78 worth of Canadian investment into Australia, C\$41.58 of investment into China, C\$24.88 of investment into India, and C\$118 of investment into Hong Kong. In 2018, Canada also saw its highest investment in terms of dollars to Australia's economy at C\$8.28. The ASEAN nations accounted for 17 percent of Canada's total outbound investment, valued at C\$34.88, with Vietnam, the Philippines, Indonesia, and Singapore being the top ASEAN nations to see Canadian investment.

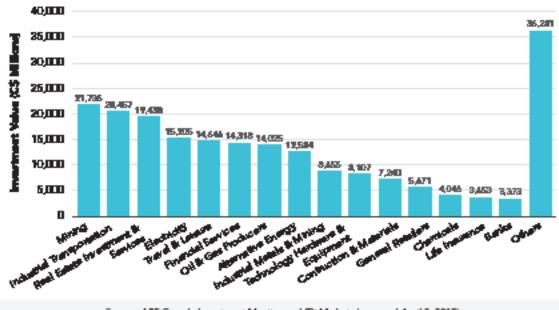
#### Canada Investing in a Variety of Sectors

Between 2003 and 2018, the top sectors for Canadian investment in the Asia Pacific were mining, industrial transportation, and real estate investment and services. The mining sector (over C\$21.78) and the industrial transportation sector (over C\$20.58) each account for over 10 percent of the total outbrand investment from Canada to the Asia Pacific, while the real estate investment and services sector (C\$198) accounts for 9 percent of Canadian outbrand foreign direct investment.

Although mining is the overall dominant sector for Canadian companies, Canada's investment in the Asia Pacific's mining and chemicals industry has dropped significantly in recent years. From 2015 to 2018, the mining and chemical industry was valued only at C\$864M, an 81 percent drop compared to the previous period (2011 to 2014), which saw investments at C\$4.7B, and a 62 percent drop from the 2003 to 2006 period, which had over C\$12.4B in investments.

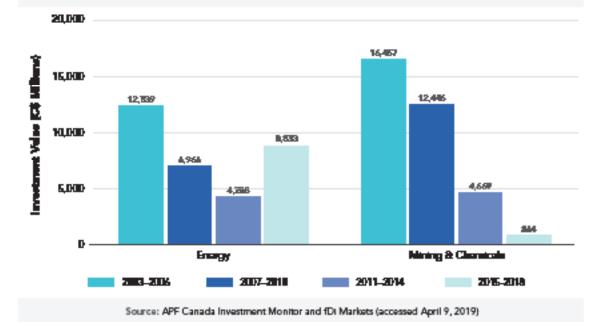
On the other hand, Canadian investment in the Asia Pacific's energy sector was almost double in the period from 2015 to 2018 compared to the previous four-year period (2011 to 2014). In the last four years, Canadian companies invested over C\$8.8B in Asia's energy sector. Notably, in 2015, Toronto-based solar energy form SkyPower Global made a C\$6.5B investment in Bangladesh's solar power sector.

#### FIG. 16 Canadian Investment in the Asia Pacific by Sector, 2003–2018



#### Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

#### Canadian Investment in the Asia Pacific's Energy, Mining & Chemical Industries, 2003–2018



#### BOX 3. CANADIAN SOLAR INC. SHINES BRIGHTLY IN ASIA

Coal's run as the go-to source for energy and heat is coming to an end for a large portion of the world. Many advanced economies at the national or state level in Europe and North America are abandoning coal in favour of cleaner and more renewable energy sources such as nuclear, solar, or wind. Asian countries are attempting to make a similar transition in the coming years as major cities like New Delhi, Beijing, and Seoul – to name a few – get choked by smog and fine dust particles resulting from activities related to coal use. Countries like India and China continue to use coal as it is relatively cheap compared to other sources, but government policies are starting to acknowledge the problem burning coal creates. In a speech at the World Economic Forum meeting in Davos in 2017, Chinese President Xi Jinping recognized the negative effects of climate change and called for a domestic "green shift" toward the use of alternative energy.

Helping pioneer this transition of energy sources in Asia is Guelph, Ontario, based Canadian Solar Inc. After establishing itself through a contract with Volkswagen Group, Canadian Solar capitalized on the renewable energy wave of the mid-2000s as governments offered large incentives for renewable energy solutions, including solar panels and components. Since Canadian Solar's inception in 2001, it is now one of the world's largest producers of solar panels, earning well over C\$3.3B in revenues in 2017. The company has a significant presence in the Asia Pacific region, with a manufacturing plant in Changshu, China, and numerous solar farm projects in Japan, China, and Southeast Asia. Recently, the company made a foray into new markets, and 2018 saw the company open its first plant in India in a project worth C\$20M. In 2019, it will enter South Korea for the first time with a project worth C\$82M to set up a solar photovoltaic project in Gangwon.

As more of Asia begins transitioning from coal to other forms of energy sources, Canadian Solar's long-standing presence in the region, along with its track record of producing quality solar farms, shows that Canadian investments in the energy sector can go beyond oil and gas. Canadian Solar is also part of a larger wave of Canadian companies exporting alternative energy sources in Asia. Since 2007, Canadian companies have taken part in nearly 80 deals involving the production, installation, or implementation of renewable energy technology in Asian economies.

In non-resources-related industries, Canadian companies in the real estate investment sector exhibited strong growth in the period between 2014 and 2018. In that period, the CPP1B made beavy investment in the Asia Facific's real estate and financial sectors, valued at more than C\$4B in total. The CPP1B also drove the growth in the industrial goods and services industry in 2018. That year, the CPP1B invested over C\$1.8B into the Asia Pacific's industrial transportation sector, and over C\$1.7B into the construction and material sector.

The food producer sector in the consumer goods and services industry also saw major investments, particularly by Montreal-based Seputo Inc. In 2018, Seputo acquired Murray Goulhurn in Australia for C\$1.3B and became the first and largest foreign-owned company in the history of Australia's dairy industry.

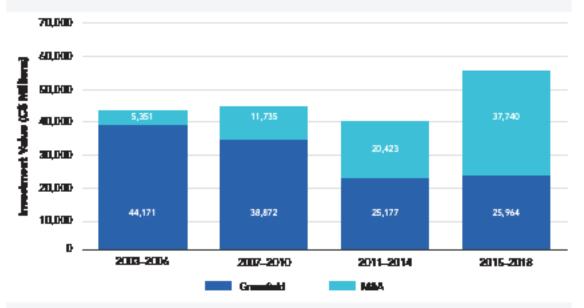
#### Canadian Firms Still Entering with Greenfield Deals

In terms of the type of investment in Asia Pacific economies, Canadian companies heavily fevoured grownfield deals, although the investment amount in M&A deals has also increased since 2003. Overall, there were a total of 1,558 grownfield deals from 2003 to 2018, accounting for 71 percent of the investments and valued at C\$134B, while the M&A deals accounted for 29 percent of the investments, at 630 deals and a value of C\$75B.

However, although greenfield remained the preferred investment method into the Asia Pacific, the dollars of investment generated from M&A deals have increased since 2003 and surpassed the investment amounts from greenfield deals starting in 2016. During the period between 2003 and 2006, only 11 percent of investment came from mergers and acquisitions (C\$SB), whereas between the period from 2015 to 2018, the investment dollars generated from M&A deals accounted for 59 percent of the total investment (valued at almost C\$388).

In terms of the number of deals, Chinese firms had the greatest number of greenfield investment deals and dollars invested from Canadian firms. There were 589 greenfield investments from Canada to Chine, which accounted for 25 percent of all greenfield investment. Following Chine, other leading Asia Pacific economies for greenfield investment from Canada were India (182 deals), Australia (173 deals), and Singapore (93 deals). For the

#### FIG. 18 Canadian Greenfield and Merger & Acquisition Investment in the Asia Pacific, 2003–2018



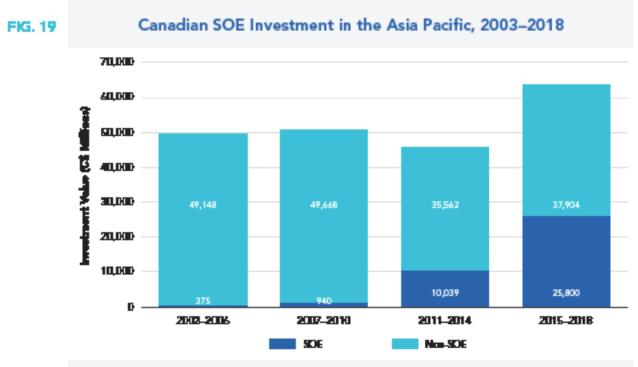
Source: APF Canada Investment Monitor and fDi Markets (accessed April 9, 2019)

value of greenfield investment from Canadian firms, China is the top destination economy valued at almost C\$348, followed by Australia at C\$228, India at C\$17.68, and Vietnam at C\$98.

For M&A deals, the top destinations are Australia and China. Australia accounted for over 34 percent of M&A deals, with 215 deals and over C\$42B in investment, and China accounted for over 27 percent of M&A deals, with 167 deals and over C\$7.9B in investment.

#### Canada's SOEs Now Make Up the Majority of Yearly Flow

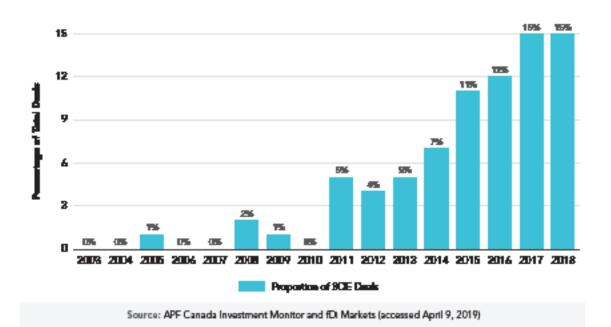
While lively discussion surrounds foreign state-owned investments into Canada, leas attention is paid to the active and growing presence of Canada's own state-owned investments across the Asia Pacific. Although making up just 0.2 percent of deals in the 2003 to 2006 period, with a total value of C\$375M, Canadian SORs have consistently increased their role as investors in terms of both share and absolute values, in the point where 15 percent of Canada's deals in the region, valued at C\$25.88, were conducted by Canadian SORs in the 2015 to 2018 period. Even more notably, the most recent two years are the first time a majority of Canadian investment originated from SORs: 54 percent in 2017 and 61 percent in 2018.



Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

Canada's SOEs are making bigger deals on average than their private counterparts, too, and are increasing their number of deals. Thus, while only one outbound SOE deal occurred from 2003 to 2006 - a more 0.2 percent of that period's activity - the most recent 2015 to 2018 period saw 58 SOE deals - or 15 percent of activity. In 2015, SOEs made up more than 10 percent of deal activity for the first time, and increases in SOEs' share of total activities have persisted to 2018 (15 percent).

#### FIG. 20 Canadian SOEs' Share of Total Outbound Deal Numbers, 2003–2018



In all, Canada's SORs have invested C\$37.2B into the Asia Pacific, to non-SORs' C\$175.4B. Of that C\$37.2B, nearly half, or C\$17.4B, has flowed from SORs into just one commy: Australia. Plipping the script of Canadian worries over incoming SOE transactions, Canada's SOEs have made significant deals in Australia's real estate, transportation infrastructure, and financial services sectors.

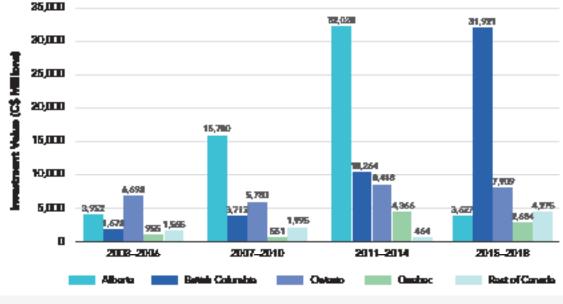
### **CHAPTER 2: THE PROVINCIAL PICTURE**

### **Key Section Takeaways**

- BC and Alberta are investing less in the Asia Pacific relative to previous years.
- Investments flowing to Ontario are at their highest point; BC and Quebec are down, but above pre-recession levels.
- Alberta is still reeling following oil price shock, but slowly recovering.
- The big four provinces are seeing more diversified investments from Asia plus investments in their industry of strength.
- Investments into other provinces/territories are often characterized by a single or a few "whale" deals.
- The territories and the Prairies are playing to their strengths; Atlantic Canada is seeing more investments in support services.

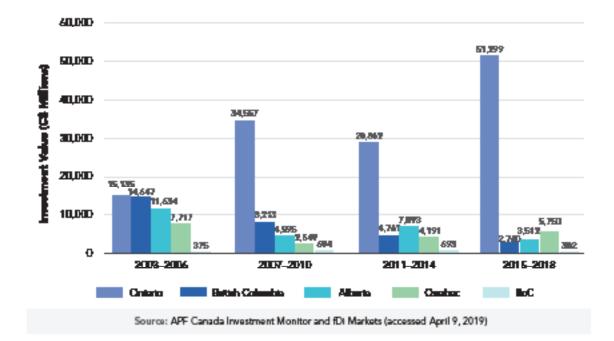
#### Canada's Biggest Provinces Continue to Lead Investments, but Some More Than Others

The flow of two-way international investment between Canada and the Asia Pacific continues to remain concentrated between Ontario, Quebec, Alberta, and BC, Canada's largest provinces by GDP. As shown by APF Canada's Investment Monitor, BC, Alberta, and the rest of Canada saw inward investments encode outward investments following the recession, whereas the opposite was the case in Ontario and Quebec. Ontario was also the only province to have outward investment in excess of their pre-recession levels, while Quebeccis investments in the Asia Pacific escended the investments the province received from the Asia Pacific in all years considered aside from the period between 2011 and 2014. All other provinces saw declines in their level of investments from the Asia Pacific. The other provinces fared a bit better in terms of receiving investments from the Asia Pacific, as only Alberta has seen fewer investments from the Asia Pacific since the Great Recession. BC was the standout here as the province has seen investments from the Asia Pacific grow nearly five-fold since the receasion relative to pre-recession levels.



Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

Inward investments into BC, Alberta, and Quebec from the Asia Pacific have primarily guns into the same sectors as did previous investments from the Asia Pacific. For BC and Alberta, these sectors include oil and gas. BC and Quebec also saw investments in their mining sectors, and Ontario saw sustained investments in its automobile and parts sector. At the same time, these provinces more recently saw investments shift eavy from their strengths and into more technology-focused sectors. In the past few years, Quebec has seen rapid development of its technology sector and has seen itself transform into a hub for artificial intelligence (AI) research and development. BC and Alberta have also seen increasing investments into the alternative energy sector. Beyond the big four provinces, deals from the Asia Pacific have been sporadic, and often are characterized by "whate" deals – one or two major investment deals from a single firm that outweigh other investments into the province. Recent deals in the provinces outside the big four have been in business support-related sectors, such as industrial transportation and computer services.



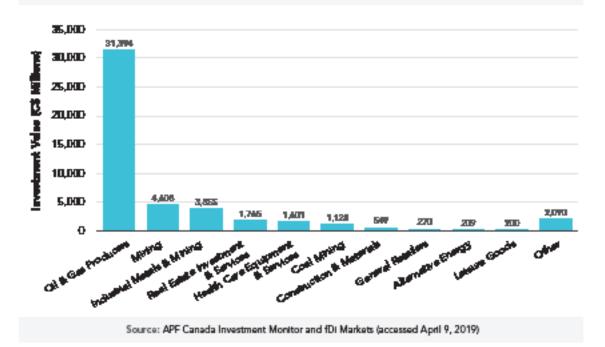
A similar story is taking place for outward investments into the Asia Pacific from the provinces. BC, Alberta, and Quebec invested in the same sectors that the companies from the Asia Pacific invested into the provinces. There were, however, some increased investments into sectors that had previously received little focus. For example, BC companies have made investments in software and computer services, Quebeccis and Albertan companies are making investments in the industrial transportation sectors, and some Quebeccis and Ontarian companies made major deals in the food products and real estate services sectors, respectively. Looking at the rest of Canada, investment deals again have been sporadic and pale in comparison to the big four provinces, with investments from the territories virtually non-existent.

#### British Columbia: Continuing as a Gateway to the Pacific

BC is geographically edjacent to the Asia Pacific region and strategically positioned to be Canada's pacific gateway to developing and leading two-way investment ties between Canada and Asia. In 2017, Asia accounted for more than 40 percent of the province's merchandise exports and 45 percent of its merchandise imports.<sup>6</sup> Although BC has been the secondlargest Canadian province investing in the Asia Pacific over the past 16 years, the value of its

investments into the region has declined relative to the investments the province has received from the Asia Pacific over the same period. In the early 2KEs, investment the between BC and the Asia Pacific were mostly characterized by outward investment flows from BC to the Asia Pacific. However, later in the decade – as BC investments into the Asia Pacific declined – investments into BC from the Asia Pacific surged; the direction of investment flow between the two regions reversed.

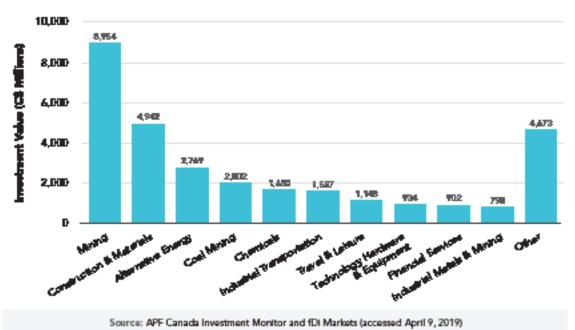
## FIG. 23 Asia Pacific Investment into British Columbia by Sector, 2003–2018



Investments from the Asia Pacific into BC remain well-diversified relative to other provinces in Canada, with the cit and gas and mining sectors as the leading sectors from 2003 to 2018. These sectors combined account for over 76 percent of BC's total inward investment for the last 16 years. In the last four years, investment interests from the Asia Pacific have grown in the province's other sectors. For example, BC's real estate investment and services sear over C\$1.78 in investments between 2015 and 2018, compared to virtually no investments before 2015. As well, the province's bealth care equipment and services sector sew C\$1.58 in investments since 2015, compared to C\$52M in investments between 2026.

In 2018, the province saw a drastic investment uptake from the Asia Pacific in its oil and gas producer sector. This rise in investment was driven by a C\$400 liquified natural gas (LNC) project in which a number of Asia Pacific investors acquired a stake in the project, including Malaysia's Petronas, China National Petroleum Corporation, Japan's Mitsubishi Group, and Korea Gas Corporation." Of the C\$408, the four Asia Pacific investors combined contributed 6D percent, or C\$248, to the project. The investment will finance the construction of the LNG export terminal in Kitimat, a district municipality located approximately 1,450 km northwest of Vancouver, and is expected to create 10,000 jobs by 2021."

## FIG. 24 British Columbia Investment into the Asia Pacific by Sector, 2003–2018



On the other hand, BC cutourd investment into the Asia Pacific has been on the decline since 2004. The mining sector continued to lead outward investments into the Asia Pacific, accounting for nearly 30 percent of the province's total investment in the region from 2003 to 2018. While the number of outward investment deals in the mining sector has increased alightly in the period between 2015 and 2018 (43 deals) relative to the period between 2011 and 2014 (39 deals), the investment values of these deals dropped by C\$2.48.

In comparison to the mining sector, growing interest among BC investors was seen in the software and computer services sector in the Asia Pacific from 2011 to 2018. BC outward investments in this sector increased by C\$97M from the 2011 to 2014 period to the 2015 to 2018 period, while the number of investment deals have increased from 9 to 13. Singapore and Australia have emerged as the top two destinations for BC investments in this sector over the past four years. These companies cite growing dient bases in the Asia Pacific region

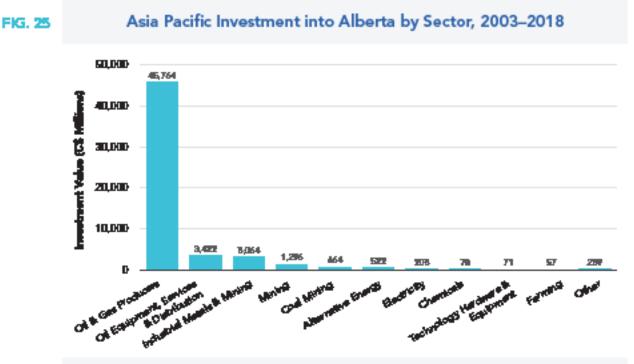
<sup>&</sup>lt;sup>1</sup> LHC Counts, LHC Counts Report Transient, <u>https://www.bougs.co./colls/11281/douchant</u>

<sup>\*</sup>CDC. R.C. Weshines Ready to Tales Manutages #20,000 LBC Febr Super Testin Council. Oxforder 4, 2010. <u>https://www.bcces/sounds/heitish-</u> pdam/in/in-a-analytic-tales-alamatages#20.000.httpjale-augustesia-council.1.4860.78

as the reason for their investment.<sup>4</sup> For instance, Colligo, a software company specializing in data synchronization solutions, invested close to C\$31M in 2015 to open a new office in Melhourne so that the company could better serve its customers in the Asia Pacific region. Similarly, the Vancouver payment solution company Hyperwallet Systems invested C\$8M to establish a merketing operation in Singapore. The company cited a growing customer base in the Asia Pacific region for its expansion.<sup>10</sup>

## Alberta: The Return of Oil and Gas Just a Pipe Dream?

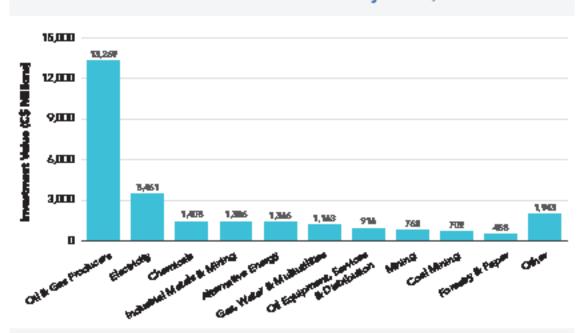
Even through crude oil prices bottemed out in 2015, it appears that Alberta is still dealing with the after-effects of the oil price shock. Albertan two-way investment remains down accuss the board. Inward investments are at their lowest point since 2003. After controlling for the blockbuster C\$15.2B deal between the China National Offshure Oil Corporation Ltd. and Calgary's Neuron Inc. in February 2013, inward investments to Alberta from the Asia Pacific declined by nearly 80 percent in the period between 2015 and 2018 following continuous growth between 2013 and 2014.



Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

\* Ryperalist System for Ryperalist Continue (Solal Creats With Cyning of its ABC Handgasten in Sylwy, Instalia, <u>https://www.</u> https://www.int.com/oran-accuments/fermalist-continue-shink-continue-continue-content-content-content-of-/ Alberta's recovery from the record low oil prices of 2015 appears to be slow but in progress, as the number of inward investments made in the province from the Asia Pacific have increased year by year since bottoming out in 2016. There were 16 investments in 2018, compared to only four investments in 2016. While the oil and gas sector continued to be the highestvalued sector for investments from the Asia Pacific, over the past two years Alberta saw more deals made in non-resources sectors relative to the resources sectors. In 2017, the province saw three deals in resources sectors and four deals in non-resources sectors. In 2018, these mombers jumped to 6 in resources sectors and 10 in non-resources sectors.

Growth in non-resources sectors in 2018 came from a rather unexpected source. In June, Australia-based Dementia Care Matters announced it would expand its business to Canada by opening fire locations in Alberta and one in Ontario by the fall of the same year. The company provides training assistance to those caring for people with dementia through courses and the establishment of a community support group. With the number of Albertans aged 40 and older being diagnosed with dementia expected to rise three-fold in the next 30 years, Dementia Care Matters' entry into Alberta will help provide caregivers the proper training needed to handle the rise in dementia cases.<sup>11</sup>



## Alberta Investment into the Asia Pacific by Sector, 2003–2018

FIG. 26

Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

<sup>\*</sup> Alasta Bailda Gerina, República Ittinutos of Conactinio Alberto, <u>https://www.alastalaukkow.ica.co/warto.AlastAcatika wa-wa-edina</u> 2016-pula-aplatapili

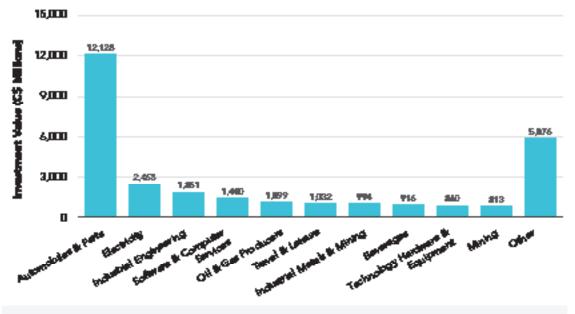
Outward investments by Alberta to the Asia Pacific since 2KB here been cyclical, with the Great Recession and the oil price shock of 2014 acting as turning points. The number of investment deals made and the value invested here both declined since 2014 and bit their lowest point in 2017, with only two deals going into the Asia Pacific valued at over C\$13M. This again coincides with the declining oil prices prevalent during this time. Diversification every from nil and gas related investments appears to be more dramatic in this case relative to the investment deals in the Asia Pacific, valued at C\$125M, and two of those seven deals were in the nil and gas sector, valued at C\$5.5M. Both deals in the oil and gas sector occurred in 2018. The largest investment deal since 2017 came from Canadian Pacific, who opened an office in Shanghai. Canadian Pacific's new office was valued at C\$88M as announced in early 2018 and was designated the company's Asian base as it locks to build up its business in the region.

While oil prices have rehounded from their lows in 2015, they still fall well below the highs seen earlier in the decade. It's not clear if the Albertan economy can continue to weather oil prices at their current level, but increasing political tensions in major oil-producing countries like Venezuela, Libya, and Iran – along with the bastiness of the Organization of Petroleum Exporting Countries cutting and raising oil production goals overnight – continue to raise the question of whether the province will ever see stable investments in oil and gas related projects. The incentives and opportunities for Alberta to diversify its investments have never been greater.

# Ontario: Southern Ontario Continues to Fuel the Province's Investment. Engine

Canada's richest and must populated province continued its dominance as the top source province for Canadian investments into the Asia Pacific, and in the past three years it has covertaken Alberta as the number two Canadian destination for investments originating from the Asia Pacific as a result of declining investments in Alberta's nil and gas sector. In terms of outbound investments to the Asia Pacific, Ontario has led all other provinces in both the number of deals brokered in the Asia Pacific and the amount invested. To put into perspective the province's dominance in investments made in the Asia Pacific, Ontario's C\$129.88 exceeds the C\$79.68 of total investments made by all the other provinces combined.

#### Asia Pacific Investment into Ontario by Sector, 2003–2018



Source: APF Canada Investment Monitor and (D) Markets (accessed April 9, 2019)

Inward investments from the Asia Pacific into Ontario have risen steadily since the receasion years. Investments have been primarily in the automobile and parts sector owing to the strong manufacturing presence in the southern part of the province, totalling nearly C\$2.4B since 2015. Investments in this sector had been tranding downseard since the receasion; however, significant investments from major automotive manufacturers and parts makers like Japan's Toyota Motor Corp. and Hong Kong's Johnson Electric reversed this trend. Toyota's investment of over C\$2B since 2015 and Johnson Electric's C\$360M investment in December 2017 play spinst the rhetoric that manufacturing is on the decline in Ontario. <sup>11</sup>

" Averfate, Barfletnis Con Peter-Parf its Mardietning Induction. Chin and Mail, December 2018. <u>https://www.thujhimedon.ik.om</u>/ Induced-commutery/witch-how-antoin-con-fature-gravitite-anaphetncing-inductoing-

FIG. 27

## BOX 4. COMMEMORATING 90 YEARS OF CANADA-JAPAN RELATIONS

2018 marked the 90th anniversary of diplomatic ties between Japan and Canada and the establishment of Japan's diplomatic mission in Canada. Throughout these 90 years, Japan and Canada have enjoyed an amicable relationship, with Canada playing a major role in Japan's economic recovery following the Second World War. Through numerous bilateral deals, Canada's nomination of Japan to the United Nations and the Organisation for Economic Co-operation and Development, and the general receptivity of Japanese products by Canadians, among other factors, Japan was able to become the large and advanced economy it is today. Helping drive that growth was the establishment of large Japanese multinational companies.

Aichi-based Toyota Motor Corp. is one of those large multinational companies, and through its divisions Toyota and Lexus, it has maintained a presence in Southern Ontario since 1986 and has grown significantly since then. Toyota today operates four plants in Cambridge and Woodstock, Ontario, with an annual manufacturing capacity of 600,000 vehicles, while employing over 8,000 people. The two plants are noted for manufacturing the Corolla sedan and RAV4 sport utility vehicle, two of Toyota's most popular models, along with Lexus' best-selling RX sport utility vehicle. In May 2018, Toyota reaffirmed its commitment to Ontario and Canada by announcing that it will invest C\$1.1B to upgrade its four plants for increased production of the RAV4, along with another C\$200M over 10 years to support automotive research and development in Canada. At the announcement, Toyota Motor Manufacturing Canada president Fred Volf spoke about Toyota's long-running relationship with the province of Ontario:

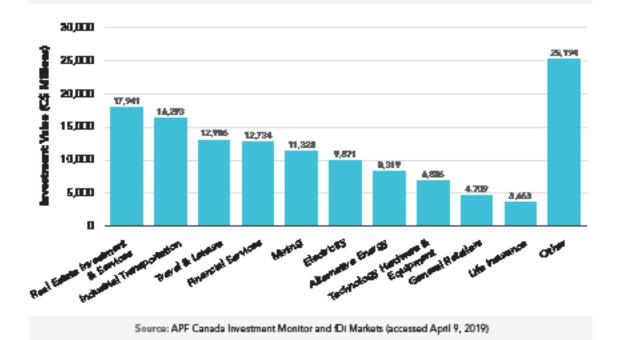
Ontario has always been a great home for Toyota Motor Manufacturing Canada. We benefit from investments in technology, innovation, and industry as well as the high-skilled workforce we're fortunate to have as our team members. With our Ontario government partners, today we celebrate the results of our past 30 years of manufacturing in Canada, and continue on the path of building for our future.

Toyota's announcement was a welcome sight to the province once considered the manufacturing hub for the automotive industry in North America. Changes to consumer tastes and the increasing access to cheap labour in Mexico via NAFTA and now CUSMA, along with rising trade nationalism in the United States, have forced companies to relocate manufacturing facilities further south. This sentiment was further underscored as General Motors decided to close to its plant in Oshawa, Ontario, at the end of 2019 and move fourdoor sedan and truck production to its plants in Indiana.

While Tokyo-based Honda Motor Co. Ltd. also established a manufacturing plant in Alliston, Ontario, around the same time as Toyota in 1986, other Japanese automakers have used Ontario as a base for parts manufacturing or have partnered with existing Canadian parts suppliers for their North American operations. Going forward, automakers are expected to invest heavily in research and development as the industry moves toward developing autonomous and electric vehicles. While the automobile and parts sector outweighs all the other sectors for inward investments, significant growth was seen in the industrial engineering sector. While Ontario only saw four deals in this sector since 2015, these four deals combined were valued at nearly C\$1.68 and worth over six times the investments made between 2011 and 2014. This sector, however, was led by a whale deal made between Aurora, Ontario-based Magne International Inc. and Hamm Systems of South Korea, valued at C\$1.58.

#### FKG. 28

#### Ontario Investment into the Asia Pacific by Sector, 2003–2018



Outward investments from Onterio here been fairly diverse, with the real estate investment and financial services sectors leading in terms of value invested abroad. Investments in real estate in the Asia Pacific continued to rise, with deals totalling over C\$10B over the past three years being led by Toronto-based CPPIB.

The CPPIB continued its reign as the leading investor based in Ontario. Since 2023, investments by the CPPIB into the Asia Pacific's real estate sector made up nearly balf of the total investments in the sector by Ontario-based companies, and in 2018 its investments made up 45 percent of Ontario's total investments into the Asia Pacific that year. In July 2018, the CPPIB announced that it will invest C\$817M in Chinese rental housing, thereby taking advantage of government measures looking to boost rental bousing projects as ways to overcome housing shortages in China's largest cities.<sup>19</sup>

<sup>7</sup> Jin. (1978) to a farmi in Cline limited Haming with Jacob Barton Longlin. Barton , Suly 2023. <u>http://comptowers.latich/homefidians/</u> 2124/2020/02/02/02/02

Investments in the travel and leisure sector in the Asia Pacific have also been significant, totalling nearly C\$13B since 2003. However, deals to the Asia Pacific in this sector have dropped off significantly, with the number of deals down to just nine, and the investment value down nearly 91 percent since 2014. Recent investments in this sector, however, have totalled C\$85M since 2015 and have been concentrated in South and Southeast Asia, regions that are expected to be the drivers of economic growth within Asia in the coming years.<sup>14</sup> Tim Hortma, for example, successfully established its first location in the Philippines in 2017. This kicked off the company's Asia expansion plan, which will see them take advantage of growing middle classes across the region. By 2018, Tim Hortons had expanded to 11 restaurants in the country, and it has its sights set on entering the Chinese market.

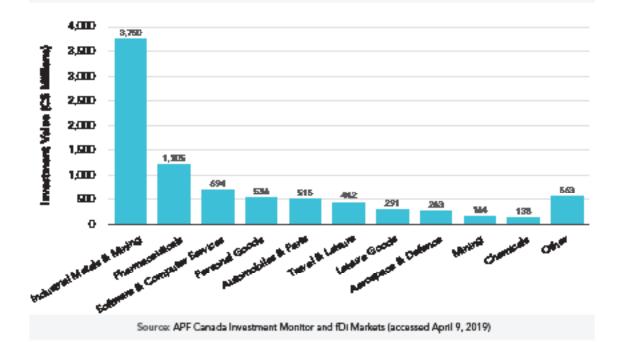
# Quebec: Striking a Technology Goldmine

As Canada's largest province by geographic area and the second-largest contributor to the country's GDP, Quebec plays a crucial role in Canada's economy. Historically, the province has ranked fourth for both inward and outward investments with the Asia Pacific in terms of investment amount, ranking behind Ontario, BC, and Alberta. However, when looking strictly at the time period between 2015 and 2018, Quebec managed to pass Alberta in terms of investments to the Asia Pacific, but now ranks behind the rest of Canada as an eggregate for investments from the Asia Pacific. The value of inward investments from the Asia Pacific are higher now than in the years before the recession; however, since 2014 investment values have trended downward slightly. Despite this, Quebec has been seeing an increase in investment deals following a decline during the Great Recession. Since 2015, Quebec bas received 35 investment deals, exceeding the 28 deals Quebec saw prior to the recession.

The value of Quehec's outward investments in the Asia Pacific took a bit around the recassion years and have recovered alightly but are still below the values seen prior to the recession. Despite the decline in investment value, the number of investment deals made in the Asia Pacific between 2007 and 2014 had been stable, followed by a slight decline between 2015 and 2018.

\* Fur. The West in 2050. https://www.pur.com/g/m/west/2050/acsts/pur.che-acstilia.2050/all-appro.62.2017.pdf

## Asia Pacific Investment into Quebec by Sector, 2003–2018



The mining industry remains the dominant sector for investments to and from the province. Between 2003 and 2018, Quebec are investments totalling C\$3.78 into its mining sector from the Asia Facific. The global demand for resources between 2011 and 2014 following the recession, combined with the Canada Economic Development for Quebec Regions' interventions from 2011 to 2016, have benefited Quebec's natural resource-rich regions.<sup>16</sup> In 2014, there was a shift in investd mining investments in Quebec as companies focused more on mining of precious metals instead of iron and steel.

Quebec has also seen a growth in investment in its pharmaceutical and software and computer services sectors in the past four years by Asia-based multinational companies. For example, Montreal and investments from Japan's Mitsuhishi Group in a C\$391M acquisition of Medicago in 2013, and from South Korea's Green Cross through a C\$333M deal in 2017 to open its first North American plant. Quebec's pharmaceutical sector accounts for 15 percent of Quebec's total instant investments, valued at C\$1.2B. Quebec's software and computer sector saw investments from Japan's Pojitsu Global and Sony Corporation along with South Korea's Samsung Group. These are major players who are breaking into Quebec's technology sector, which has seen nearly C\$7KIM in investments since 2KB in areas such as artificial intelligence, robotics, and self-driving technologies. With the increase in the number of outward investment deals combined with Quebec's broming knowledge economy and world-class research institutions, Quebec was selected to lead the Al-powered supply chain supercluster in Canada.<sup>11</sup>

FIG. 29

<sup>&</sup>quot; Canch Recentic Development in Queles Ingine. Ingent to Informent 2016. <u>https://www.incode.cod.go.co/Ano/Ano.Ano.Ano.ano.2014.pdf</u> " Converses of Canada. 49 Recent Reputy Claims Reputation. <u>International and Ano.Ano.Ano.Ano.Ano.Ano.Ano.Ano.An</u>

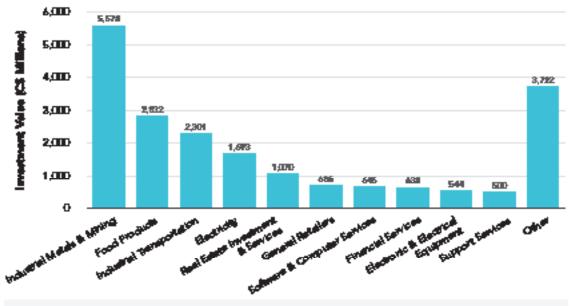
# BOX 5. BRINGING THE "LIFE" BACK TO QUEBEC'S LIFE SCIENCES INDUSTRY

While Toronto is known as Canada's financial capital and Calgary as Canada's oil capital, Quebec has been establishing itself as a hub for the pharmaceutical and life sciences industry. Southeastern Quebec has been home to companies and research centres who have benefited from easy access to a highly skilled workforce along with investment incentives from the province of Quebec. A blip in the industry following the 2008 recession led to some centres closing or laying off staff. In 2012, industry giants Sanofi and Johnson & Johnson laid off 226 people in an industry that at the time had already lost nearly 3,000 jobs since 2006 despite the Quebec's government continued support of the industry through incentives. However, this downturn in the industry did not seem to affect investments coming from Asia, as Quebec saw more investments in its pharmaceutical sector in the five years following the 2008 recession compared to the five years before the recession, capped off by an investment by Japanese multinational corporation Mitsubishi Group.

Mitsubishi Group, through its subsidiary Mitsubishi Tanabe Pharma Corp., acquired a 60 percent stake in Quebec City-based Medicago in a deal just shy of C\$400M. While other companies were looking for ways to downsize and streamline operations, Medicago viewed this investment as an opportunity to "foster the development of innovative vaccines with the financial stability to expand our Quebec, Canadian, US, and global operations," according to CEO Andy Sheldon. Karnataka-based Strides Pharma Global Private Limited has also maintained a presence in the southern Quebec region through a joint venture in 2012 with Jamp Pharma and an acquisition of Pharmapar in 2018 from KDA.

Going forward, Quebec remains committed in its support of the pharmaceutical sector. In 2017, the province introduced the Quebec Life Sciences Strategy, which set aside C\$205M to help increase investments in research and innovation in the life sciences sector, to foster creation of innovating companies, to attract new private investments, and to promote the greater role innovation will play in the health and social services network. Through this strategy, the province hopes to attract C\$4B in private investments by 2022 and to be one of North America's top five life sciences hubs by 2027.

#### FIG. 30



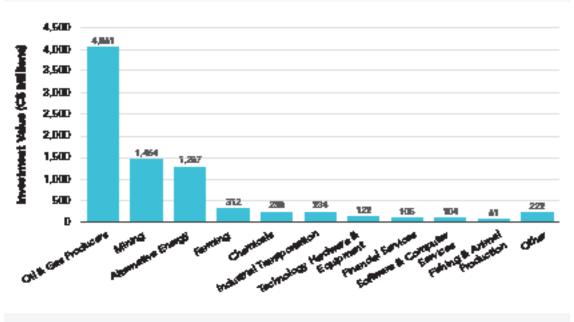
Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

Similarly, much of Quebec's outward investments into the Asia Pacific from 2003 to 2018 was in the mining sector, which saw approximately C\$5.68 in investment overall. China, South Kores, and Australia were key investment destinations in this sector. Outside of mining, Quebec's food production, industrial transportation, and real estate sectors have seen growing investment outflows. Since the 2009 recussion, investments in these three sectors have seen growing rival the investments made in the mining sector at C\$5.18 and accounted for almost over 60 percent of Quebec's outward investments since then. The largest investment in the food production sector coming out of Quebec occurred in 2018, when Montreel-based Seputh Inc. acquired Murray Goulburn, a major Anstralia-based dairy co-operative, in a blockbuster deal worth nearly C\$1.38. Following this deal, Seputo became the first and largest foreign-owned company in Australian dairy history and the largest investment in the Asia Pacific by a Quebecbased company in a non-measurces-related sector.

## Rest of Canada: Investments Few and Far Between

A notable characteristic regarding the investment ties between the rest of Canada and the Asia Pacific for the past 16 years is that most of the provinces and territories have seen very few investment deals go to and originate from Asia. In fact, the rest of Canada combined made up only 1 percent of Canada's total outward investment deals and received only 7 percent of the Asia Pacific's investments into Carada. Anstralia, China, and India were the most common destinations for investments to the Asia Pacific, while the bulk of investments from the Asia. Pacific have been concentrated in Saskatchewan and Newfoundland and Labrador.

## FIG. 31 Asia Pacific Investment into the Rest of Canada by Sector, 2003–2018



Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

Inward investments from the Asia Pacific into the zest of Canada have been scattered with no discernible growth nor decline. Oil and gas remained the largest sector for inward Asia Pacific investment from 2003 to 2018, and it accounted for nearly half of all total inward investments into these provinces.

In Atlantic Canada, New Brunswick saw its largest investment from the Asia Pacific in 2018 when India-based information technology company Mahindra Group invested C\$119M to establish a new business services centre. The new centre is expected to create up to 116 jobs in the next fire years.<sup>17</sup>

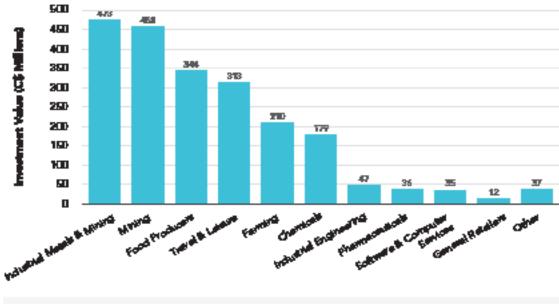
Newfoundland and Lahrador saw a surge of inbound investment in the province's oil and gas sector. The surge was driven by a transaction in 2017, when Husky Energy, a subsidiary of the Hong Kong conglomerate CK Hutchison Hubling Ltd., invested C\$2.28 in an offshore oil drilling project. According to the company, the project will create approximately 250 jobs on the new oil platform and indirect employment for 1,500 people.<sup>10</sup>

<sup>&</sup>lt;sup>14</sup> Opportunities How Research, Tark Mahindra & Consta Jaka in How size: <u>https://wikewada.or/proceedings.theck-unbindra-consta-jaka-decedingt</u> <sup>14</sup> Junity How you Consta West White Research <u>and a start of the start of the Constant Research (CONCORSECTOR</u>).

Nova Scatia also saw an increase of inbound investment in the industrial transportation sector. The growth was attributed to an investment by Nippon Express, a Japanese logistical solution company that opened a new office in Halifax in July 2018 in a C\$20M investment. As further increases in the volume for sea and air cargo in Halifax are anticipated, the company established the new office to provide better service to companies in the fahery products industry.

The territories did not make any investments in the Asia Pacific and received over half of a percent of the Asia Pacific's investments in Canada. The territories played to strength in the investments it received as all were in the mining sector and originating from either Australia or China. The last investment made in the regim occurred in the Yukon in 2014 in a joint venture with a BC-based company looking into the feasibility of the Carmacks Copper-Gold-Silver project located Z2D km north of Whitehurse.

## FIG. 32 Rest of Canada Investment into the Asia Pacific by Sector, 2003–2018



Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

Outward investments from the rest of Canada into the Asia Pacific were valued at C\$382M between 2015 and 2018, a nearly SD percent drop from the C\$693M invested between 2011 and 2014. The industrial metals and mining sectors continued to attract the greatest investment interest into the Asia Pacific. However, both sectors have not seen any outward investment activity within the past four years. In contrast, recent outward investments into the Asia Pacific have occurred in other sectors, such as bealth care equipment and services and other non-memory-based sectors.

Another interesting investment deal came in 2018 when Acadian Seeplants, a Nova Scotian company specializing in binstimulant and bicnutritional solutions, established an Indian subsidiary and opened a processing facility in Valodara, India. Through this investment, the company hoped to better meet the needs of the local farm owners with the new subsidiary and facility in an investment valued at C\$36M.<sup>18</sup>

\* Butilday desire Suplate Rebbied Soluting Company's India. <u>http://www.butilday.out.atila/IDB078/ancounceding-amplate.</u> athlikas-achiding-company-in-india/.

# CHAPTER 3: CITY-LEVEL HUBS OF INVESTMENT ACTIVITY

# **Key Section Takeaways**

- Over the course of the last 16 years, Asia Pacific investors have invested in 165 Canadian cities.
- Major Canadian cities, such as Calgary, Toronto, Vancouver, and Montreal, are among the top recipients of Asia Pacific investment, but many smaller cities and regions, such as Kitimat, Fort McMurray, and Woodstock, punch above their weight and have become major hubs for Asia Pacific investment.
- Canadian investors have invested in 465 Asia Pacific cities from 2003 to 2018.
- Melbourne and Sydney are the top two destinations for Canadian investors, outranking other larger economic hubs in the regions such as Beijing, Shanghai, and Mumbai.
- Canadian investment into China has increasingly moved away from Beijing and Shanghai to other cities since 2011.

# The Street-Level View: Metropolitan Areas as Hubs of Investment.

Canada's cities provide unique insights into understanding patterns in the Canada-Asia Pacific investment relationship. At the city level, it becomes possible to identify the range of Canada's investment hubs, talk about more distinct stories across the history of investment, and map out the landscape of where the relationship has gone thus far. While many of the top recipients of the Asia Pacific's investment into Canada are likely not surprising and already well-known across Canada as population and economic bubs (such as Toronte, Vancouver, and Montreal), their relative rankings and variations in sectoral composition indicate that there is no standard relationship between Canada's higgest centres and the Asia Pacific.

In addition to Canada's major economic centres, a city-level look at direct investment uncovers some less-obvious destinations. While perhaps not household names outside of their immediate regions or sectors, several key, low-profile cities have emerged as hubs of Asian investment in Canada. For example, the hamlet of Duverney, Alberta, has brought in 2 percent of all Asia Pacific investment into the country (C\$2.4B of C\$121.3B); smaller cities such as Woodstock and Cambridge, Ontario, have brought in billions spiece (C\$5.1B and C\$3.0B, respectively). In all, there is not just one story to tell about Asia Pacific investment in Canada, but 152: one for each distinct city-level recipient of Asia Pacific investment.

#### FIG. 33

## Top 15 Canadian Cities for Asia Pacific Investment, 2003–2018

\$ Ranking	City	Investment Value (CS Millions)	Number of Deals
1	Calgary, Alberta	41,864	77
2	Kitimat, British Columbia	26,243	8
3	Vancouver, British Columbia	14,060	150
4	Fort McMurray, Alberta	7,557	4
5	Toronto, Ontario	7,444	137
6	Woodstock, Ontario	5,140	14
7	Montreal, Quebec	4,277	43
8	Dawson Creek, British Columbia	3,198	1
9	Cambridge, Ontario	3,017	7
10	Duvernay, Alberta	2,404	1
11	Edmonton, Alberta	2,264	12
12	St. John's, Newfoundland and Labrador	2,246	2
13	Alliston, Ontario	2,245	5
14	Aurora, Ontario	1,811	3
15	Fort Nelson, British Columbia	1,244	3

Source: APF Canada Investment Monitor and 1DI Markets (accessed April 9, 2019)

Calgary's ranking as the biggest destination for investments from the Asia Pacific in terms of dollar value, at C\$41.DB, is almost entirely driven by investments into the oil and gas production and oil equipment, services, and distribution sectors. Notably, large, single deals in oil and gas play a significant role in determining a city's rank: this is especially true for the first- and second-placed cities, Calgary and Kitimet, respectively, but also for other, highranked locations such as Fort McMurrey, Dawson Creek, Doverney, and St. John's.

While a distant third in terms of invested dollars received, Vancouver's C\$14.1B ranks first among Canadian cities in terms of the number of deals – 150. The next level of recipients – Fort McMurray, Toronto, Woodstock, and Montreal – all present very different investment stories when it comes to the sectors involved and the level of deal activity it takes to drive them up the rankings. Toronto and Montreal, as large Canadian cities, present a varied basket of sectors receiving a moderate amount of deals; Fort McMurray and Woodstock, by comparison, rank high due to a few large deals in oil and gas production and automobiles and parts, respectively.

## BOX 6. SOMETHING TO BE JOLLIBEE ABOUT

Ask your average Canadian to picture a fast-food chain mascot. Most likely they are picturing a clown named Ronald, a southern colonel, or a red-headed girl with two pigtails. Ask someone in the Philippines and their mind jumps to a jolly red-and-white bumblebee. Well, this jolly bumblebee from Quezon City may soon be buzzing around the minds of Canadians too.

The bumblebee is the mascot of the aptly named Jollibee, a Philippines-based fast-food giant. Jollibee began as an ice cream parlour in 1975. However, when its hot meals became even more popular than the ice cream, Jollibee was turned into a hamburger joint that would revolutionize the fast-food industry in the Philippines. Go to the Philippines and Jollibee is a must stop visit. Just ask Canadian Prime Minister Justin Trudeau, who stopped by an outlet on his way to attend the Association of Southeast Asian Nations Summit in November 2017.

There are currently four Jollibee locations in Canada. The first two locations opened in Winnipeg in 2016 and 2017, and the company continued its expansion into Canada with two more locations opening in the Greater Toronto Area in April and July 2018. Looking forward, Jollibee plans to open 100 Canadian stores by 2023, including in Edmonton, Calgary, and Vancouver.

The entry of Jollibee into the North American marketplace to meet the hungry demands of Canada's growing Filipino population is an example of the transformational effects of migration and immigration between Canada and Asia, and the movement of not only people but also of goods, culture, and ideas. Statistics Canada reports that 188,805 of the 1.2 million immigrants who arrived between 2011 and 2016 are Filipino.

The global expansion of Jollibee in North America is representative of a recent trend of investments by restaurants and dessert chains from Asia into the Canadian market, such as Chatime, Uncle Tetsu, and Sulbing. While these names may not be familiar outside of Canada's urban centres, they are growing in popularity each year. Chatime, with over 800 stores worldwide, has opened 31 locations in Ontario and 15 locations in BC, quenching the bubble tea cravings of Canadians one cup at a time since 2011. Sulbing, meanwhile, a South Korean-based bingsu dessert café chain, opened its first Canadian location in Burnaby, BC, in 2018, with plans to open more stores in major Canadian cities.

Perhaps someday a cute bee from the Philippines will also be one of the go-to images of a fast-food chain mascot in Canada. FIG. 34

# Top 12 Asia Pacific City-Level Regions for Canadian Investment, 2003–2018

Ranking	City	Investment Value (C\$ Millions)	Number of Deals
1	Melbourne, Australia	18,505	69
2	Sydney, Australia	16,682	90
3	Hong Kong, China	11,019	110
4	Perth, Australia	9,789	56
5	Bengaluru, India	6,838	37
6	Gopalganj, Bangladesh	6,040	1
7	Shanghai, China	5,533	110
8	Beijing, China	5,494	111
9	Singapore, Singapore	5,235	97
10	Mumbai, India	5,192	48
11	Xuyen Moc District, Vietnam	4,942	1
12	Gove Peninsula, Australia	4,500	2

Source: APF Canada Investment Monitor and IDI Markets (accessed April 9, 2019)

When it comes to outbound investment from Canada into the Asia Pacific, drilling down to the city level reveals specific hubs for Canadian investment across the region. While some hubs are likely recognizable to Canadians as major economic centres – cities such as Sydney, Singapore, and Beijing – their rankings, both on their own and relative to other cities, reveal a pattern of Canadian investment in Asia that is both focused on resources but also actively engaged in a basket of other sectors.

Notably, Canada has invested over half a billion more into Gopalganj, Bangladesh (ranked sixth) then it has into Shanghai, China (ranked seventh); at eleventh and twalfth place respectively, Xuyên Môc District in Vietnam and the Gove Peninsula in Australia are just behind tenth place Mumbai when it comes to dollars invested. The diversity of Canada's investment activity in the region stretches for beyond just the top 12, however, there are 465 distinct city-level destinations for Canadian investment across the Asia Pacific, from Adelaide to Zunyi.

Perhaps surprisingly, Melbourne and Sydney rank as the top destinations for Canadian investment in terms of dollars invested. Their respective C\$18.58 and C\$16.78 invested are mainly composed of a relatively diverse basket of investments: financial services and real estate investment and services play a major roles in both cities, with Melbourne also receiving significant investments in the industrial transportation sector. However, Melbourne and Sydney's more moderate number of deals, at 69 and 90 in turn, are indications that Canada's

activity in these two Australian cities involves relatively larger deals then many other major hubs for Canadian investment in the regim.

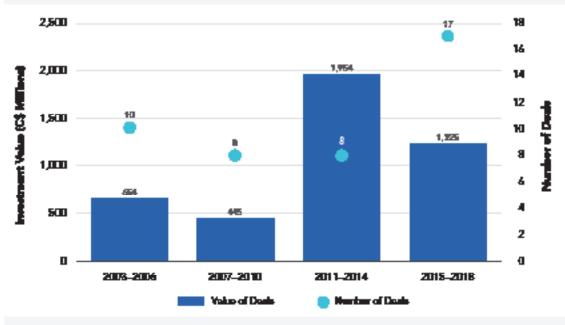
Coming in at a more distant third and fourth are Hong Kong (C\$11.DB) and Parth (C\$9.8B). Despite close investment values, these two cities tell very different tales of Canadian investment in the region: Canadian investment in Hong Kong is especially focused on general retailers and financial services, part of a total 11D deals into the city; by contrast, Canada's investment in Parth is focused on the oil and gas production and mining sectors, part of a much lower total of 56 deals.

As is often the case with FDI, some of the top-ranked hubs for investment rank highly due to a few, or sometimes even one, large investment; this was especially the case for Bengaluro, the Gove Peninsula, Gopalganj, and Xuyên Môc.

The city-level discussions presented below were selected to highlight city stories that demonstrate high levels of investment flow and activity in recent years and that reflect the breadth and depth of Canada-Asia Pacific investment relationships.

# Montreal: City's Best and Brightest Attract Asia Pacific Investment

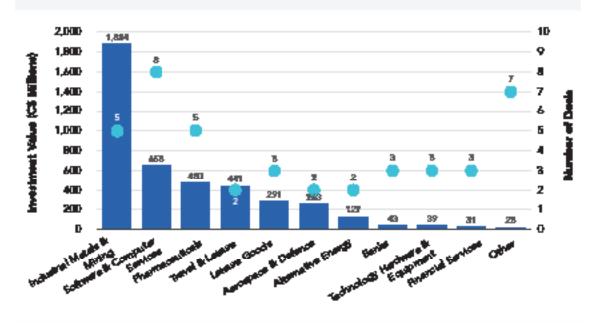
Montreal, Canada's second most populous city, ranks seventh among Canadian cities in attracting Asia Pacific investment. From 2003 to 2006, Montreal received more than C\$654M in investment from the Asia Pacific, which dipped down to C\$445M for the 2007 to 2016 period. After a substantial rise to C\$2.08 from 2011 to 2014, inbound investment into Montreal then dropped by C\$729M in 2015 to 2018 from the previous four-year period, down to C\$1.28. Over half the value for the 2011 to 2014 period was the result of a highdollar-value acquisition in 2011, when a subsidiary of China Minmetals Corporation acquired the Montreal-based Arvil Mining Limited for C\$1.38. However, the number of inbound investment deals in Montreal in the most recent four years remained higher than it was in the previous four-year periods.



Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

FIG. 36

# Asia Pacific Investment into Montreal by Sector, 2003–2018



#### Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

In comparison to other cities, inbound investment into Montreal for the past 16 years bas been diverse. Industrial metals and mining remains the leading sector for the city's inbound investment from the Asia Pacific in terms of investment value. From 2003 to 2008, all inbound investment in the city's industrial metals and mining sector originated from Chinese state-owned companies. However, the sector has not seen any inbound investment from the Asia Pacific since 2012.

In contrast, the pharmaceuticals sector has become Montreal's emerging leader in attracting Asia Pacific investment in the past four years. In 2015, Green Cruss Biotherapeutics, a subsidiary of the Korea-based pharmaceutical company Green Cruss, invested C\$315M in Montreal to build its manufacturing facility and North American headquarters. The company's managing director claimed that they choose to invest in Montreal because of the city's "thriving life sciences sector, international-calibre research, innovative drive, and highly skilled workforce."<sup>40</sup> The new manufacturing facility alkows the company to partially satisfy the need for plasma protein products in Canada, which currently entirely relies on imports.<sup>21</sup>

According to Canadian Hood Services, plasma protein products are used to treat various conditions, including immune and blooding disorders, and injuries resulting from burn and treams.<sup>22</sup>

Another high-profile investment deal in the last four years came in 2015 when Cirque du Soleil, an entertainment company known for its theatrical circus aboves, sold a majority stake to a group of American and Chinese investors. Chine-based fund manager Fosun International Limited acquired a 25 percent stake in the C\$1.58 investment deal. The deal is expected to help the Canadian entertainment giant to increase its chances of success in the Chinese market, according to the company's CBO.<sup>10</sup>

<sup>&</sup>quot; Cons Cons Hallenquetics, Cons Cana Hitlenquetics languates its Hales of the let Heilty in Marken 1, <u>http://www.gon.com/bt</u> 1999/2017/2020/gonz-cons-hitlenguetic-insugants-its-state-of-the-art-field yies marken 1/ 1994

<sup>\*</sup> Constitut Marchine, Result Ratinia Restante, <u>http://doi.ol.co/w/keupitel-arcive/perdicte/planus-pretain-products</u>

<sup>&</sup>quot; Long at. Coga da Sabil ada Majoriy Itala to O.S., Chinas Invatino, Rotan, April 2015. <u>https://www.tor.com/orlide/w-dogada-shil.</u> <u>www.typlingu-da-schil-ada-mijady-atala to-e-e-dinas-invation-il/101010101010000000</u>

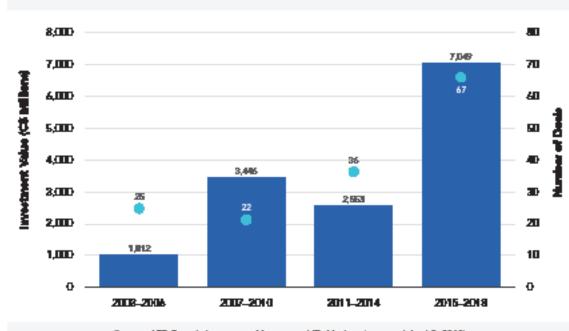
# Vancouver: Continuing to Record High Inbound Investment

While a distant third in terms of invested dollars received over the past 16 years, Vancouver's C\$14.18 ranks first among Canadian cities in terms of the number of deals - 150 - with a more varied distribution of investment across sectors. Mining, industrial metals and mining, real estate investment and services, and health care equipment and services all make up significant abares of investment. Vancouver's traditional positions within the mining and real estate sectors are certainly important for drawing in money from the Asia Pacific, but the role of health care services for an increasingly aging region presents an interesting opportunity to track.

Over the past four years, as investment in Calgary's oil and gas sector has declined, Vancouver has emerged as the top investment distinution from the Asia Pacific in Canada. With a total of C\$7.08 in inbound Asia Pacific investment from 2015 to 2018, the city outperformed the now second-place holder, Calgary, by C\$3.28. Inbound investment into Vancouver has more than tripled against its own previous performance, in comparison to the previous four-year period. Vancouver also set a record high number of inhound investment deals for the last 16 years with a stunning 67 deals from 2015 to 2018.

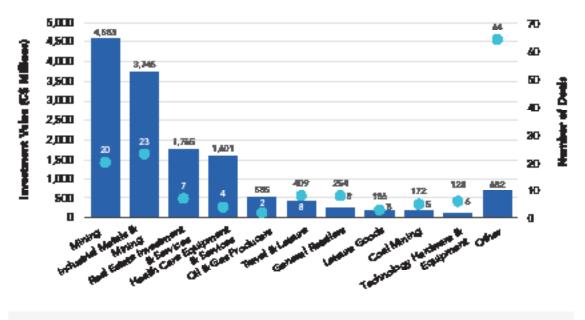
Asia Pacific Investment into Vancouver, 2003–2018

FIG. 37



Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

#### Asia Pacific Investment into Vancouver by Sector, 2003–2018



Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

Vancouver is one of the two Canadian cities that have received at least C\$16DM for each of its top 10 sectors – only Toronto has received a similar spread of high investment values. In al, Vancouver has received C\$14.1B in investment from the Asia Pacific from 2008, covering 30 sectors from mining to pharmaceuticals.

Asia Pacific investors remain must interested in the Vancouver-headquartered mining sector in terms of investment value. From 2003 to 2018, the city's mining sector has seen 20 inbound investment deals, which totalled more than C\$4.68 in investment from the Asia Pacific. However, 41 percent of the investment in the city's mining sector was attributed to a high-dollar-value investment deal in 2018. The China-based Zijin Mining Group Company Limited acquired Nersun Resources Limited for C\$1.98, making the investment the largest the city has seen since 2009.

Vancouver also saw another high-profile investment deal in 2017, when a subsidiary of the Chinese Anbang Insurance Group Company Limited invested C\$1.08 to acquire a majority stake in Vancouver-based Retirement Concepts, which owns and operates 24 retirement communities in BC, Calgary, and Montreal.<sup>16</sup> However, in 2018 the Chinese government seized ownership of Anbang and all its subsidiary businesses, Retirement Concepts included.<sup>26</sup>

#### FIG. 38

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<sup>&</sup>lt;sup>10</sup> Sung et al. Johnsy's Ro-Chief Wallinshei Sectoremitte 10 Years Holded Ress for US\$12 Killen Panal, Sold-emberget. South Chien Manzing Part, May 2010.

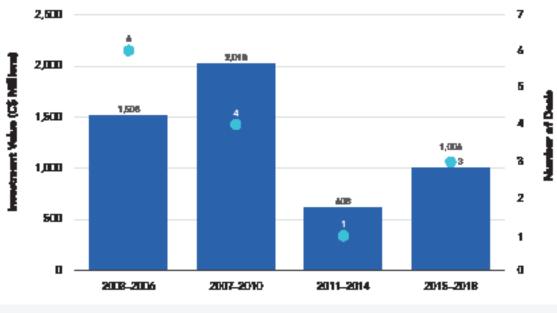
At the time of the deal, the investment raised concern over an opequely structured Chinese enterprise baring a stake in the BC's health care system. Since Anbang's seizure by the Chinese government, the BC government has launched a review on the new ownership structure of the retirement home chain.

While discussions on investment in Vancouver often centre on real estate, they typically focus on housing, and not broader FDI across the real estate and services sector overall. In all, C\$1.8B in foreign direct investment has flowed from the Asia Pacific into Vancouver's real estate and services sector, the majority of which was a C\$1.0B acquisition by Anbang of a controlling interest in Vancouver's Bentall Centre towers.

Asia Pacific investment into Vancouver has seen significant growth over the last four years, and Chinese investors played a significant role in driving the growth. Within the various trends in the Canada-China economic relationship, Chinese investments account for 71 percent of Vancouver's total inbound investment from 2KB to 2018, 31 percent higher than the national percentage.

# Woodstock, Ontario, Manufactures Success, Ranks as the Sixth Largest in Inbound FDI

The city of Woodstock, Ontario, with a population hovering around 40,000 people, sits 143 km southwest of Toronto.<sup>20</sup> Despite its small size, Woodstock ranks sixth among Canadian cities for inbound Asia Pacific investment from 2003 to 2018, outperforming larger cities such as Montreel and Edmonton.

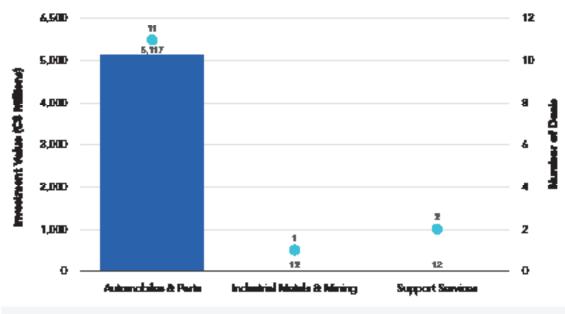


Source: APF Canada Investment Monitor and (D) Markets (accessed April 9, 2019)

Unlike other small cities, where Asia Pacific investments are often low and infrequent, Wordstock has been a comparatively consistent investment destination for Asia Pacific investors. Toyota Group, the Japanese automotive giant, has been the city's main source of inbound investment from the Asia Pacific, bringing in 3 percent of all Asia Pacific investment into Canada, or C\$5.18. As recently as May 2018, Toyota invested C\$708M to expand its Wordstock manufacturing plant, which specializes in building traditional and hybrid RAV4 sport utility vehicles.<sup>27</sup> The investment will allow Toyota to respond better to consumers' increasing preferences for SUVs over care.

<sup>14</sup> Misgawa and Egypert Tayata Into \$1.1.165an on 2016 in Canada with Tealma's Holy. He and ago May 2018. <u>https://www.blaushorg.com/</u> man.haticlas/2018-16-00/agota-in-mid-to-gine-1-1-165an-agomine-at-canada-ginet.

## Asia Pacific Investment into Woodstock by Sector, 2003–2018



Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

The timing of the expansion also illustrates just how much the city-level story of Asia Pacific investment can differ from other national concerns: the Woodstock plant expansion came amid uncertainty surrounding negotiations on NAFTA, now known as CUSMA (or the USMCA in US media), which saw the auto industry become a key issue during the talks.

# Just as Impactful: Canada's Investment Across the Pacific

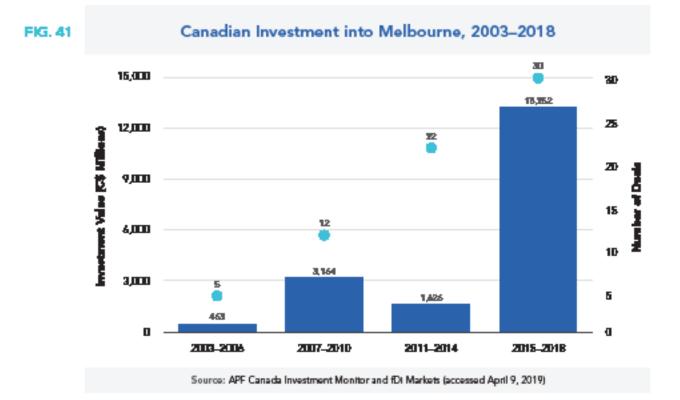
As meetinned above, understanding where Canadian companies are investing in the Asia Pacific is equally important, if not more so: at least in dollar terms, over the past four years Canada has invested more into the Asia Pacific (C\$63.7B) than it has received from the region (C\$51.2B). The scale, diversity, and differences across Canadian investment stories in the Asia Pacific, while notable at the level of entire economies, are even more apparent when presented at the city level. In the following section, investment trends in Melbourne, Mumbai, and Chinese cities will be highlighted, with these cities selected as representative of some of the most active trends over the past years of Canadian investment abroad.

FIG. 40

# Melbourne: Canada's Investment Capital of the Asia Pacific

Amid the countless economic and population buhs that come to mind when discussing the Asia Pacific, Melbourne, Australia, is unlikely to top must Canadians' lists, especially when compared with the far larger economic centres dotting China, South Koree, Singapore, and so on, and even when compared to the more-famous Sydney, Australia. Yet Melbourne ranks first in the region for Canadian investment, with its cumulative C\$18.58 in investment across 69 deals, putting it almost C\$28 absol of Sydney, C\$88 absol of Hong Kong, and C\$138 absol of Singapore.

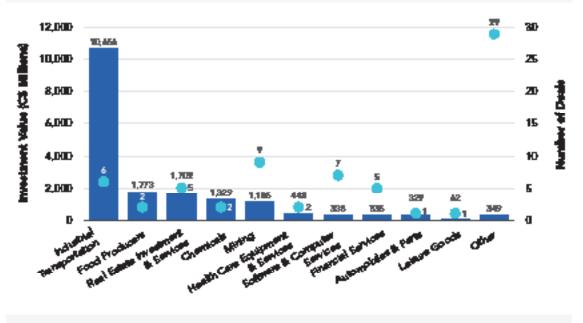
The rise of Melbourne as a hub for Canadian investment – it saw just C\$463M in 2003 to 2006, only to reach a flow of C\$13.3B in 2015 to 2018 – stems from both a rise in the number of deals (five between 2008 and 2006 compared to 30 between 2015 and 2018) and in the values of the deals. On this latter point, just six multi-hillion-dollar deals by Canada during the most recent four years accounted for C\$11.2B, or 84 percent, of the total flow of dollars for that period. Melbourne, then, is not so much a hub for all kinds of Canadian investment in the region, but a very specific type: major deals, which individually rank among the highest investments by Canada in the Asia Pacific, and collectively bring Melbourne to the top.



5

#### FIG. 42

#### Asia Pacific Investment into Melbourne by Sector, 2003–2018



Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

Despite the existence of large deals predominantly flowing into one sector, Canada's investment profile within Melbourne is still relatively diverse across the remaining sectors. In terms of deal values, the majority of investment over the past 16 years has flowed into Melbourne's industrial transportation sector (C\$10.78), with relatively high levels of investment into the food production (C\$1.88) and real estate (C\$1.78) sectors. Other sectors with high numbers of transactions, but lower total values, include mining (nine deals bringing in C\$1.28) and software and computer services (seven deals bringing in C\$338M).

Of recent deals, the industrial transportation sector again ranks highest, with C\$6.DB invested during 2016 alone. Canadian state-owned enterprise activity played a major role in this, along with a private sector partner: the Ontario Municipal Employees Retirement System acquired the Part of Malbourne for C\$2.SB, while the Canada Pension Plan Investment Board and BC Investment Management Corporation partnered with Toronto-based Brookfield to acquire a shipping, logistics, and rail company for a combined C\$3.5B. Canada has also made significant plays in Melbourne-based agriculture and real estate: all Canadian investment into Melbourne's food production was due to a total C\$1.8B acquisition of the majority of Anstralia's dairy processing by Montreal-based Seputo, while a combined C\$719M into real estate came from deals by the Ontario Municipal Employees Retirement System and the Ontario Teachers' Pension Plan.

But the Canada-Melbourne connection can also be viewed through the lens of its sustained relationship over the past 16 years, all the way back to January 2003, when Toronto's Geomegue Explorations entered the city's mining sector, and forward as recently as Vancouver-based BlueBird Battery Metals' own acquisition in the same sector in 2018. The past eight years have also seen a number of unique Canadian players enter Melbourne's software and computer services sector, and even the large-deal oriented industrial transportation sector's investment history from Canada began with a 2008 purchase of a toll real operator by the Canada Pension Plan Investment Board for C\$747M.

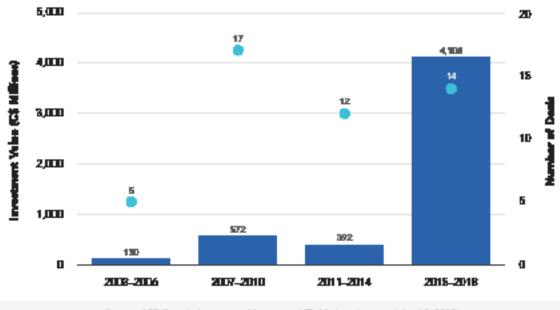
Melbourne's investment relationship with Canada reflects a larger trend in the Asia Pacific-Canada investment relationship: large, controlling acquisitions by Canada's pensions plans of transportation infrastructure and real asiate across the Asia Pacific.

# Mumbai: A Fast-Growing Economy Attracts Canadian Asset Managers and State-Owned Enterprises' Investment

In 2018, Mumbei was the seventh-largest city in the world.<sup>10</sup> A major financial centre with a population of close to 20 million, Mumbei is one of India's main economic angines. From 2003 to 2018, Canadians have invested more than C\$5.28 in Mumbei, making the city the 10th-largest destination city for Canadian outbound investment.

Canada's investments in Mumbai are relatively diverse, with high amounts moving into the technology bardware and equipment, real estate investment and services, financial services, and industrial transportation sectors. With the billions Canada has invested in Mumbai, a city-level kick at Mumbai uncovers a number of organing opportunities and gaps presented by just one city within the rapidly changing Indian economy.

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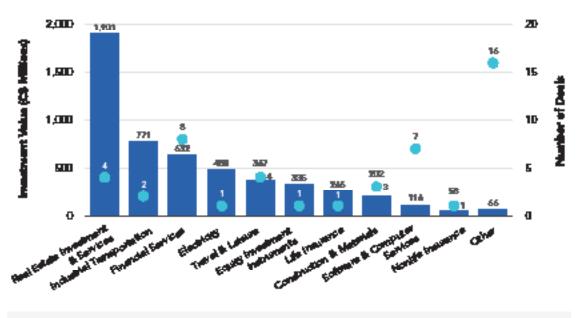


Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

Canadian investment in Mumbai has increased ten-fold from C\$392M in the 2011 to 2014 period, to C\$4.1B in 2015 to 2018. The drastic increase was primarily driven by a few highdollar investment deals in 2016 and 2017. Among them, the largest transaction came when Brockfield Asset Management Incorporated acquired Hiranandani Group's offices and retail space in Powei, a suburb of Mumbai, for C\$1.3B. The deal was also reportedly the largest office space transaction in India, and it single-handedly made real estate investment and services the leading sector for outbound Canadian investment in Mumbai.<sup>20</sup> Local reports claim that accelerating economic growth and increasing demand for office spaces have contributed to higher foreign investment into the Indian real estate market.

\* Non-Realified top (1.0 Office Space from Historychic Uniferencie Time , October 2011, http://www.icficien.com/ with/wit-astro/ice-dified top-1.6-difice-space from historyche/icficien/5472806.com

#### Canadian Investment into Mumbai by Sector, 2003–2018



Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

In comparison to other destination cities, Canadian outbound investment in Mumbai has been fairly diversified from 2003 to 2018, covering 21 sectors, from real estate to phermaceuticals. As one indicator of the spreed of Canadian investment in the city, its top nine destination sectors each have received over C\$10DM.

Among these sectors, Canadian investment in Mumbal's industrial transportation has seen significant growth, with investment increasing from C\$76M in the 2011 to 2014 period to C\$695M in the 2015 to 2018 period. However, the growth was driven solely by an investment in 2017 when the Canada Pension Plan Investment Brard invested C\$695M in 2018 dollars to establish a joint venture with IndoSpace, a company that specializes in developing modern industrial and logistical real estate. The joint venture is expected to acquire and develop logistic facilities in India.<sup>80</sup>

Another high-profile investment came in 2018 when Caisse de dépôt et placement du Québec acquired a 40 percent stake in CLP India, a subsidiary of the Hung Kong-based CLP Holding Limited, for C\$480M. The proceeds of the investment will help the Indian firm expand their investment in low-carbon initiatives, such as renewable energy projects.<sup>41</sup> According to CLP Holding's media release, the investment was part of the Caisse's plan to mitigate climate change and contribute to the transition toward a low-carbon economy.<sup>41</sup>

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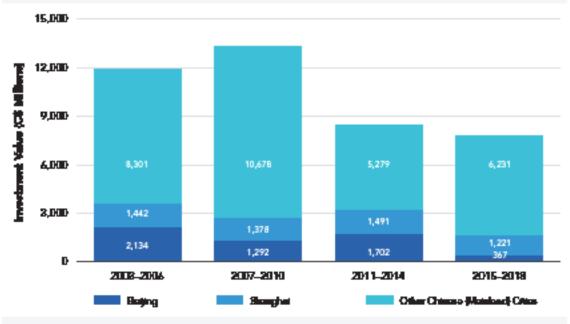
Mumbai has been one of the top investment destinations for these two Canadian state-owned enterprises for the past four years, as their investments have accounted for 36 percent of the total Canadian outbound investment deals to the city and 49 percent of the total Canadian outbound investment value in that period. Going forward, as Mumbai has one of the fastestgrowing economies in the region, Canadian private sector investment in the city has much room for growth.<sup>46</sup>

## China: Never Just Beijing and Shanghai

Despite their large presence in Canadians' minds, Beijing and Shanghai have never been the main destinations for Canada's investment in Mainland Chine. In fact, after a resurgence in the 2011 to 2014 period, Beijing and Shanghai's share of investments received have dropped, from 38 percent them to 20 percent in the 2015 to 2018 period.

The decline in Canada's investment in Mainland China is reflected in Beijing and Shanghai, but includes a drop of Canadian investment to other cities in Mainland China, too. Beijing is the most dramatic illustration of this in terms of its declining size relative to the past: from a high flow of C\$2.18 between 2003 and 2006, Canada's investments into Beijing have dropped substantially to just C\$367M in the most recent 2015 to 2018 period. Shanghai's investment





Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

\* CP Resolution of Child Material States 2018, Reading: Institute, June 2018, <u>https://www.institute.org/active/active/2018/05/</u> <u>Readings Material Material Material States 2018 price</u> history, by contrast, has been far more stable, but Canada's investments into the city have also dropped slightly, from C\$1.58 between 2011 and 2014 to C\$1.28 in 2015 to 2018. In turn, the rest of Mainland China has seen dramatic shifts in terms of the absolute value of investment: Canada invested C\$118 in 2007 to 2010, only to be followed by a drop to C\$5.38 in 2011 to 2014, and a alighter bounce-back to C\$6.28 in Canadian investment for the most recent period, 2015 to 2018. Both Canada's historical and current declining investment in Mainland China, then, is largely due to Canada's declining interest in areas outside of Beijing and Shanghai – and to a smaller extent, declining interest in those cities, too.

In all, Canada has invested C\$5.58 in Beijing by way of 111 transactions, primarily investments in the financial services, technology hardware and equipment, industrial transportation, and travel and leisure sectors, with a lower-value flarry of activity in the software and computer services industry. But the bulk of the largest investments occurred before 2015: only travel and leisure and software and computer services have seen any significant activity in recent years, with Quebec-based D-BOX Technologies opening a C\$45M motion-coding studio in a play to interface with China's film industry. Other, non-traditional sectors have instead become the targets of Canadian investors, such as St-Georges Eco-Mining of Montreal's acquisition in 2018 of blockchain technologies from a Beijing software firm for C\$150M.

For Shanghai, the C\$5.5B invested by Canada across 110 transactions has primarily flowed into the city's real astate investment and services and financial services sectors, but with relatively high amounts of investment activity in the industrial transportation, acftware and computer services, and support services sectors as well. In a twist of typical reporting on Canada-China investment ties, one of the most significant recent deals involved a Canadian state-owned enterprise, the Caisse de dépût et placement du Québec, investing C\$487M into Shanghai's real estate in 2015. This deal was almost matched by another real estate investment by a Canadian state-owned enterprise in 2018, with the Canada Pension Plan Investment Board investing C\$46KM.

# FIG. 46 Top 11 Mainland China City-Level Regions for Canadian Investment, 2003–2018

Ranking	City	Investment Value (C\$ Million)	Number of Deals
1	Shanghai	5,532	110
2	Beijing	5,494	111
3	Suzhou	1,613	30
4	Tianjin	1,393	21
5	Tai'an	1,165	1
6	Qingdao	1,119	8
7	Guangzhou	1,110	22
8	Tongliao	1,059	1
9	Changsha	1,038	8
10	Shihezi	970	1
11	Shenzen	900	28

Source: APF Canada Investment Monitor and fDI Markets (accessed April 9, 2019)

Still, C\$30.58 of Canada's investments in Mainland China, represented through 535 deals, occur outside of Beijing and Shanghai, with Canada's investments as diverse as the ocmomy they enter. Third-ranked Suzbou's earliest recorded investment activity was as a hub for Canadian investments in electronic and electrical equipment, but the 2015 Canada Pension Plan Investment Board investment of C\$248M in real estate is a anapahot of the changes seen in both China's economy and Canada's investment relationship with it. Fourth-ranked Tianjin, once a recipient of major Canadian investment in nil equipment, services, and distribution, bas seen no investment from Canada since 2013. The next group of investment destinations – Tai'an, Qingdan, Guangzhou, Tingliao, and Changaha – rank high due to Canadian investments in alternative energy, real estate, banks, electricity, and pharmaceuticals, respectively.

Reflected within these numbers is a record of the ever-shifting Canada-Chine economic landscape and a record of both sides' own economic histories – but the numbers also reflect the importance of looking down to the city level, which reveals how some of the most significant investment stories between Canada and the Asia Pacific may at times be hidden within broader trands within and between economies.

# CONCLUSION

As Asia Pacific economias rapidly develop, investment tias with these economias have become increasingly central to Canadian diversification strategies. However, other than the information available from official statistics, Canadians have very limited resources available to help them understand the impact of Canada's two-way investment relationship with the Asia Pacific, aspecially at the city and sector level. The lack of detailed information on the size and scope of Canada-Asia Pacific investment ties can lead to ineffective policies and a misinformed public. By providing this discrete level of information, the APF Canada Investment Monitor sets the stage for more informed discussions for Canada's foreign relations, business, and research communities, all ultimately helping the public learn more about the Canada-Asia Pacific investment relationship.

The goal of the APF Canada Investment Monitor is to provide the foundation for evidencebased decision-making, not only for policy makers, but also for all interested stakeholders in the Canadian public, by providing a growing data set of both Asia Pacific companies' investment into Canada and Canadian companies' investment into the Asia Pacific. This year's report also highlights Canadian and Asia Pacific cities with clusters of investment, adding another layer to the Canada-Asia Pacific investment story.

# METHODOLOGY AND DATA SOURCES

The AFF Canada Investment Munitor tracks foreign direct investment announcements at the firm level, taking a bottom-up approach rather than reviewing the balance of psyments in Canada's national accounts.

In order to generate the APF Canada Investment Monitor data, APF Canada uses its own unique legacy data, third-party data sources, metasearch engines, and other search tools to aggregate data obtained from public sources including media reports, company documents, industry associations, and investment promotion agencies. Investment announcements that will be entered in the database include greenfield investments, asset purchases, equity investment, mergers, acquisitions, joint ventures, etc.

The AFF Canada Investment Munitor sources its investment sturies primarily from its decades-long archive of announcements on deals, trade missions, memorandums of understanding (MOUs), and other developments of note in the Canada-Asia relationship. Such a vast archive allows the APF Canada Investment Monitor to build a strong foundation on which to track deal flow both historically and going forward. Each deal announcement is recorded, catalogued, and added to our database. Deals are recorded using 30 different observations ranging from parent company to destination city. Key to this cataloguing of investments for trand analysis is the use of a user-friendly sector classification system. Whereas deals catalogued with the widely used North American Industry Classification System (NAICS) often hide key trends in budding industries, the AFF Canada Investment Monitor's use of the modified Industrial Classification Benchmark (Modified ICB) allows it to clearly see growth in areas such as clean tech and the video gaming industry.

Dollar values for the APF Canada Investment Munitor are obtained through a thorough investigation of the deal value and, barring an official value, the best publicly available estimate. This methodology allows for the avoidance of errors that occur in databases that estimate deal value using proprietary algorithms.

Data for this report was also obtained from the United Nations Committee on Trade and Development (UNCTAD), Statistics Canada (StatCan), and Ministry of Commerce of the People's Republic of China (MOFCOM), Australian Bureau of Statistics (ABS), Japan External Trade Organization (JETRO), and Statistics Singapore.

# LIST OF ABBREVIATIONS

AI	Artificial Intelligence
ABS	Australian Burson of Statistics
APF Canada	Asia Pacific Foundation of Canada
ASEAN	Association of Southeast Asian Nationa
BIT	Bilateral Investment Treaties
CPPIB	Canada Peosion Plan Investment Board
CPTPP	Comprehensive and Progressive Agreement for Trans-Pacific Partnership
CUSMA	Canada-United Status-Mexico Agreement
FDI	Foreign Direct Investment
POPA	Foreign Investment Promotion and Protection Agreement
FPI	Foreign Portfolio Investment
FTA	Free Trade Agreement
GDP	Gross Domestic Product
(CB	Industrial Classification Benchmark
JETRO	Japan External Trade Organization
LNG	Liquefied Natural Gas
M&A	Mergers and Acquisitions
MOFCOM	Ministry of Commerce (People's Republic of Chine)
MOU	Memorandum of Understanding
NAFTA	North American Free Trade Agreement
NAICS	North American Industry Classification System
SOE	State-owned Enterprise
STATCAN	Statistics Canada
UNCTAD	United Nations Conference on Trade and Development

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# ADVISORY COUNCIL

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Samb Albrecht, Director, Partnership Strategy, Invest in Canada.

Dr. Rugane Benuliso, Professor of Economics and Program Director, International Economics, The School of Public Policy, University of Calgary.

Kuzsti Calder, Directur, International Strategy and Business Intelligence, Ministry of Jobs, Trade, and Technology, Government of British Columbia.

Dr. Jeff Reeves, Vice-President, Research, Asia Pacific Foundation of Canada.

Lori Remison, Senior Policy Advisor, Canadian Economic Analysis Department, Bank of Canada.

Clark Roberts, President and CEO, AdvantageBC.

Sinhing Smith, Strategy Lond, British Columbia Ministry of Jobs, Trade, and Technology.

Dr. Stephen Tapp, Deputy Chief Economist and Director, Research Department, Export Development Canada.

## ABOUT THE ASIA PACIFIC FOUNDATION OF CANADA

The Asia Pacific Foundation of Canada is dedicated to strengthening ties between Canada and Asia with a focus on expanding economic relations through trade, investment, and innovation; promoting Canada's expertise in offering solutions to Asia's climate change, energy, food security, and natural resource management challenges; building Asia skills and competencies among Canadians, including young Canadians; and improving Canadians' general understanding of Asia and its growing global influence.

The Foundation is well known for its annual national opinion pulls of Canadian attitudes regarding relations with Asia, including Asian foreign investment in Canada and Canada's trade with Asia. The Foundation places an emphasis on China, India, Japan, and South Korea. while also developing expertise in emerging markets in the region, particularly economies within ASEAN.

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# INVESTMENT MONITOR 2020

REPORT ON TRADE AGREEMENTS AND FOREIGN DIRECT INVESTMENT BETWEEN CANADA AND THE ASIA PACIFIC

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## ABOUT THE ASIA PACIFIC FOUNDATION OF CANADA

he Asia Parific Foundation of Canada (APF Canada) is a not-forprofit organization focused on Canada's relations with Asia. Our mission is to be Canada's catalyst for engagement with Asia and Asia's bridge to Canada. APF Canada is dedicated to strengthening ties between Canada and Asia with a focus on seven thematic areas: trade and investment, surveys and polling, regional security, digital technologies, domestic networks, sustainable development, and Asia Competency

Our research provides high-quality, relevant, and timely information, insights, and perspectives on Canada-Asia relations. Providing pulicy considerations and business intelligence for stakeholders across the Asia Pacific, our work includes Reports, Policy Briefs, Case Studies, Dispatches, and a regular Asia Watch. newsletter that together support these thematic areas.

APF Canada also works with business, government, and academic stakeholders to provide custom research, data, briefings and Asia Competency training for Canadian organizations. Consulting services are available by request. We would be pleased to work with you to meet your research and business. intelligence needs.

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## ABOUT THE APF CANADA INVESTMENT MONITOR

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## MESSAGE FROM THE PRESIDENT & CEO, ASIA PACIFIC FOUNDATION OF CANADA

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## EXECUTIVE SUMMARY

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## KEY TAKEAWAYS FROM THE REPORT

IN 2010, THE TOTAL TWO-WAY VALUE OF CANADIAN INVESTMENT WITH CPTPP-INTERD ECONOMIES WAS ICIE/IB IN WAY OF 56 DEALS.

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IN THE ASIA PACIFIC, THE STROMERST EVIDENCE FOR INCREASED FOR AFTER A FREE TRACE AGREEMENT IS THE CAMADA-SCRITH KOHEA FREE TRADE AGREEMENT SKINED IN 2016.

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## IN 2010, CANADA RECEIVED A TRITAL OF CÂLIB OF FOREIGN DIRECT INVESTMENT FROM ASIA MACIFIC EXCINCIMES.

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## THE NUMBER OF DIRCUMP INVESTMENT DEALS IN 2010 SET A RECORD WITH 161 DEALS.

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## IN 2019, CAMADA INVESTED A TRITAL OF C\$7.28 IN THE ASIA PACIFIC.

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## MANY PROVINCES SAW INCREASES IN NEW INVEST-MENT RECEIVED ACROSS THE PAST BECADE.

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OVER THE MAST 17 YEARS, 97 CAMADIAN CITIES HAVE INVESTED INTO THE ASIA PACIFIC, AND 101 CITIES HAVE RECEIVED INVESTMENT, REPRESENTING A STRCING NET-WINE OF THES ACROSS THE PACIFIC.

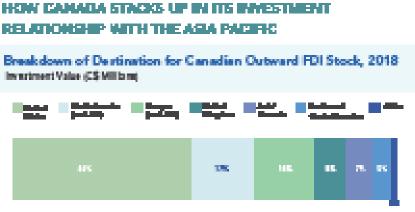
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## INTRODUCTION GENERAL TRENDS IN INVESTMENT TO 2019

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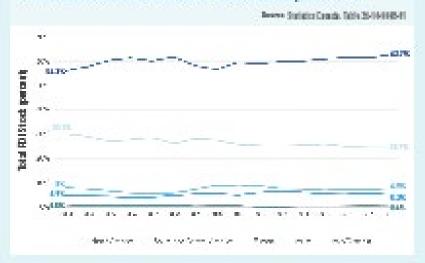
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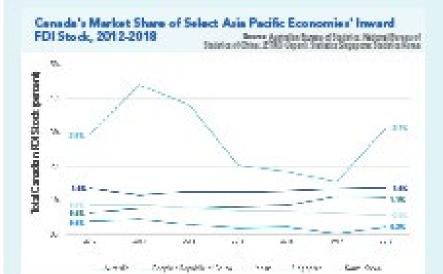
### Asia Pacific's Share of Total Inbound FDI, by Inbound Economy

When II aroon to the accuracy's dates of table transients that the state Partie, Canada and a low compared to energy comparison materials, including states its, day Partial Dates, and the Partial Displace. The arrange properties of Their Sate Reside to realizations in 2014 and 14 paramet, and Canada raw alcost 4 parameters paties follow the arrange. This arguest that these materies many for Canada to Inspace transients the web, the arguest

## BOX 1. WHAT OFFICIAL STATISTICS CAN AND CANNOT TELL US

Official Statistics on Canadian FDI Stock Abroad, 2003-2018

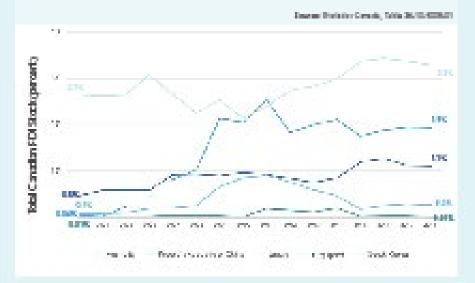




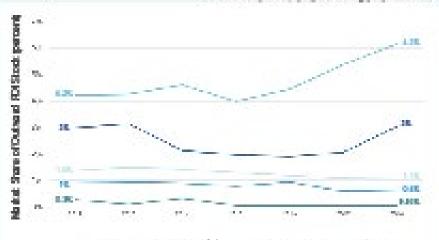
Canada's role as investor in the Asia Pacific remains small, both as a share of Canada's total outseard investment and as a share of investment received by Ania Pacific economies. As of 2018, Canadian investment in the region totalled C\$88.98, or 10 percent of all Canadian investments abroad. Some of the most invested in economies in the region are Australia, China, Hong Kong, and Japan, which have shares of total Canadian outbound flows maging from 0.5 to 2.4 percent. Inboard investments from the Asia Pacific are also small, but have been generally stable since 2015. Japan notably has the highest relative share of inboard investment into Canada, while Singapore has the lowest share. Official statistics from economies across the Asia Pacific similarly show that Canada is a small investor in the segion. Data from 2018 for Australia, China, Japan, Singapore, and South Korea show that Canada's share in their inward FDI flowe maged from only 0.2 to 3.1 percent.

For investment continginito Gausda, these statistics also show that Cauada is not a significant destination for the Asia Pacific. One notable exception is South Kossa, where outward FDE to the Gausdian market is steadily sizing.

## Official Statistics on Asia Pacific FDI Stock in Canada, 2003-2018







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The official statistics provided by Statistics Canada show Canada's international investment position on a national level, using a top-down approach in its collection of data. The data is mainly gathered from surveys of Canadian and foreign firms, as well as reports from government bodies like the Bank of Canada.

Due to the top-down nature of the data, Statistics Canada is unable to second the ultimate sources and destinations of investments, the relationallevel distribution of investments, and the distribution of investments by industry. As such, national data provided by Statistics Canada and Asia Pacific economies does not offer transaction-level information on EDI, nor details on the number of deals and distribution of investments across geographic regions and industries.

### BOX 2. CROSS-BORDER INVESTMENT AND FOI

Cross-border investments can be reparated into two major groups: 1) foreign porticilo investment (FDI) and 2) foreign direct investment (FDI).

#### Poreign For goile investment

FPI is a temporary investment by a neident or enterprise of one economy into a financial asset of another economy. This investment involves a non-controlling stake in an enterprise in the form of equity, debt securities, or loans. For example, a Canadian firm increasing its stake from 3 percent to 5 percent in a South Korean firm would be an FPI.

#### Poreign Direct Innestment

FDI its long-term or lasting-interest investment by a resident or enterprise of one economy into a tangible asset of another country. This type of investment is deemed "long term" or of "lasting interest" if it is either a guestical investment or an acquisition of at least 10 percent of the equity or voting shares of an exterprise. This 10 percent threshold is considered a controlling interest is an enterprise and is what primarily distinguishes FDI from portfolio investment, rince it usually coincides with a transfer of management, technology, and organizational shifts along with capital. One example of FDI is Canada-based Gildan Activevent's investment of \$4556 into a new manufacturing plant in another country that would expand its textile and aswing operations in the country.

### 90X 1 STOCK AND FLOW

The concepts of stock and flow an commonly used in economics and accounting. Stock refers to an existing quantity at one specific time, whereas flow refers to the movement of quantities in and out of the stock. These are two types of flows: inflow, which is an addition to the stock, and outflow, which is a deduction from the stock. The numerical difference between the inflow and outflow is called a next inflow. If the net inflow is positive, this means that the stock is rising, whereas if it the net inflow is negative, this means that the stock is falling. A bank account can filterine these concepts. The balance of the account is the stock, while deposits and withdrawals from the account are the flows. In an investment account, the total smouth of capital that Canada has accountiated and depleted through investment over the years is considered the stock. The amount of investment flows coming into and soiting Canada then represent its inflows and outflows, separitively.

## FREE TRADE AGREEMENTS IN THE ASIA PACIFIC AND FDI: ANY CORRELATION?

## KEY SECTION TRUEWANS

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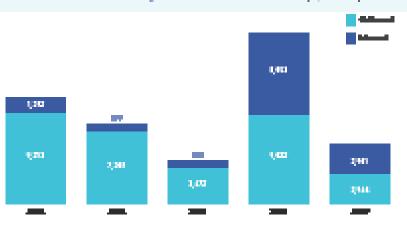
## FTRS AND INVESTMENT

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Two-Way Investment Flow between Canada and Ratified Asia Pacific CPTPP Economies, 2015-2019 Investment Value (CS Millions)

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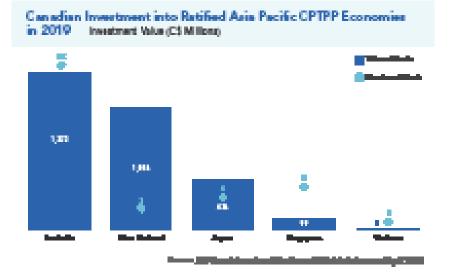
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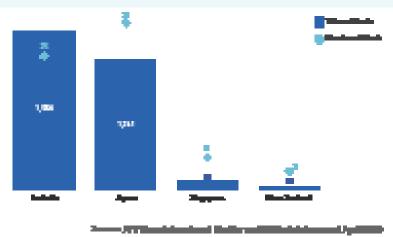
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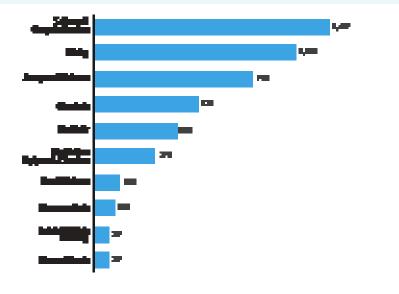






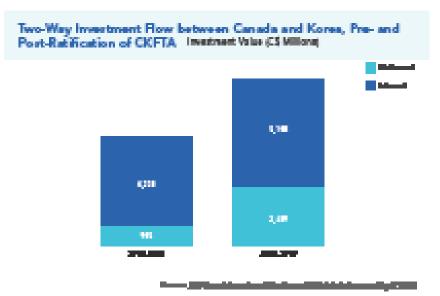
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Two-Way Investment Flow between Canada and Ratified Asia Pacific CPTPP Economies by Top 10 Sectors, 2019 Inectnet Was (CSMII bra)



#### CANADA-ROREA FREE TRADE ASSEEDIENT

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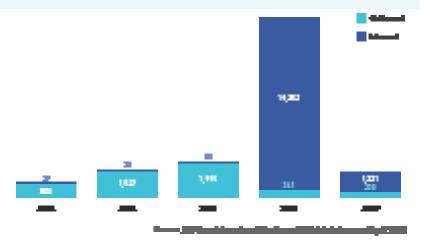
## LICKING AHEAD, CANADA'S INVESTMENT THES WITH ASEAN AND INCIPIC ALLIANCE ECONOMIES

## CANNOA AND ASEAN

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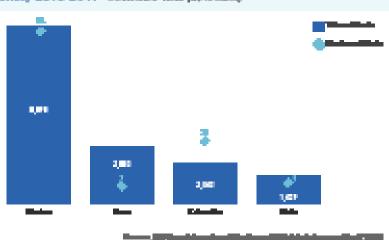
Two-Way Investment Flow between Canada and ASEAN, 2015-2019 Investment Value (C\$ Million)

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Outbound Canadian Greenfield Investments in the Pacific Alliance, 2015-2019 Investment Value (C\$ Nillon)

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#### USAGE CHALLENGES AND FUTURE PROMISES

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## THE NATIONAL PICTURE

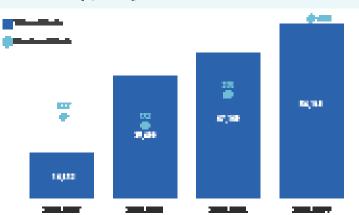
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## INIKUNID THENDS AND INIKUNERS IN A YEAR OF RECORD DEALS

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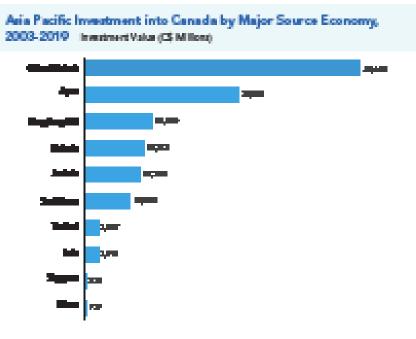
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### Comparison of Average Dollar Amount Invested Per Deal, 2004-2019

Time Period	Arreage Amount Invested Per Deal (C\$ Millions)
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2012-2015	201
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Total	156

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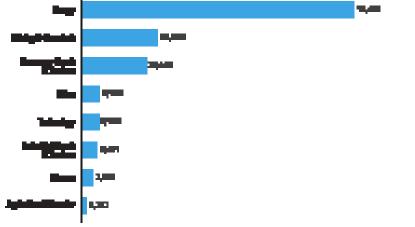
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## ASIA PACIFIC INVESTMENT IN CAMADA'S SECTORS: RESIDURCES, TECHNICKORES, AND THE REST



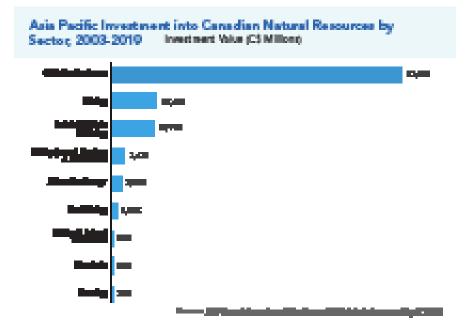


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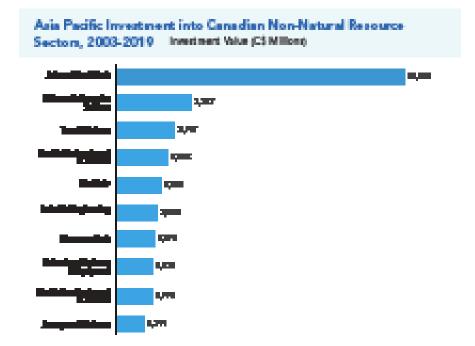
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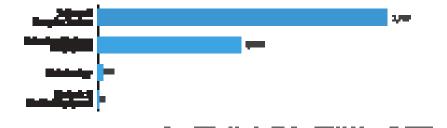


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#### Asia Pacific Investment into Canadian Tech by Sector, 2003-2019 Insutnant Vice (CS Millon)



BOX 4. ASIA RACIFIC INVESTMENT IN NATURAL RESOURCES

Canada's natural necesaries industries (energy, mining and chemicals, and agricultures and iterativy) have been significant drivers of investment from the Asia Pacific and accounted for 74 percent (C\$1200b) of the total value of investment from 2003 to 2019. Of total investments in the industry, the energy sector had a majority share at 75.6 percent (C\$91.48), while the mining and chemical sector and the agriculture and investment for 23.3 percent (C\$268) and 1.1 percent (C\$18), respectively.

Invertment inflowe from the Asta Pacific experienced apeak of 40 percent (C\$48.28) of total investment in the industry during the 2011 to 2014 period, when Canada had a large-scale C\$16.78 transment deal when Neces was purchased by the China National Offshore Of Corporation in 2013. However, the inward flows of investment in the industry have been decreasing since 2013 because of declining commodity prices and a lack of big deals. Investments from the Aria Pacific into Canada's national necessors industry continue to pentist, however. For instance, in the energy sector, LNG Canada, a joint venture comprised of multiple comparies from Canada and Asta, invested C\$24.58 into Canada's of and gas produces in 2018. Within Canada's natural rescences industries, investment in the agriculture and forestry sector was not as big as it was in other sectors. One of the largest deals in the sector was a parchase of the assets of the Terrace Bay Pulp Mill in Oniario by India-based Aditys Stria Group for C\$27316 in 2012. Moreover, no investments were recorded between 2016 and 2018 in the sector. However, in 2019, Thailand's Charnes Polyhand Foods acquiring Manifola-based HyLife for C\$43856 was one of the highlightern the sector.

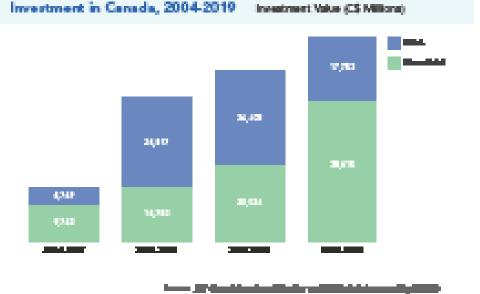
#### BOXIS ASIA MORE STUDIOS IN CANADASICS4.58 VIDED GAME INDUSTRY

Canada is a global hab for wideo games. With appealing tax incentives and globally recognized creative talent, Canada has attracted renormed iterating studies, his the French company Ubisoti and American studios Epic Games and Electronic Arts, to settle in cities like Montreal and Vancouver. Belowed game functions like Ubisoti's America's Ored series and Epic Games' online game formities relatingdeveloped in Canada with homegrown talent. Overall, according to the Entertainment Software Association of Canada, the Canadian video game industry contributed C\$4.55 to national GDP in 2019. (Moneover, an estimated two-thirds of Canadians are gamen.) It comes as no surprise that studios based in the Asia Pacific are also interested in benefitting from Canada's growing video game industry. According to the Investment Monitor, from 2005 to 2019, C\$1.35 in investment antived from the region into Monitosil, Vancouver, Burnaby, Toronio, and Sarkatoon.

Montreal, in particular, has become one of the top cities in the world for video game development. Called by some the "Hollywood of video genes," Montreal is the 61th most popular day for gone development, after Tokyo, London, San Francisco, and Austin. This is largely thanks to Quebec's multimedia tax credit, which subsidizes up to 37.5 percent. of labour costs for eligible comparies that develop digital products. One notable studio that has chosen to put down roots in Montreal is Square. Ruiz, a Japanese game developer globally renovated for its Finel Fantary and Kingdom Riests game tranchises. In 2007, Square Ruiz invested C\$226M to establish its first studio in Montreal, named Ridos-Montréal. It has since invested in expanding the studio in 2011 and 2019. Eldoe-Moninial is best known for producing games in the Temb Reider and Deta Sx inachites. Most recently, in 2019, one of China's top online. game providers, NetExce, invested C\$130M into a new starilo incased on research and design. NetWate is known for publishing games like Cruzeders of Light and UNOF the mobile game.

However, not all inbound investments have been successful. In 2005, Japanese developer Novi Tecmo invested C\$2500M to establish a Canadian subsidiary and studio in Tommio. The studio, seponable for games like Fatel inwrite and Scenarei Cets, eventually closed in 2015. In 2014, Japanese company Guni invested C\$176M in its first Canadian studio in Burnaby. Guni in well-known in Japan for the mobile rolephying game Burse Feastler. However, after 18 months and no titles released, Guni closed its doors in 2016, along with its other studios in Sweden, Germany, the United States, and Hong Kong. These are several reasons for each closure. For Kosi, observers attribute its closing to unpopular titles as well as competition from Ubisoft, once the French studio settled in Toronto in 2010. For Guni, its closures are seen as a consequence of mpid hyper-expansion.

Overall, while some big physes like Square Enix have found success in Canada, othern like Guni have not. Reasons for classes wary across studios, from releasing unpopular titles, losing provincial tax incentives, merging with a bigger studio, and competition. Considering these barriers, provincial governments must go beyond just attracting studios to settle in their cities, and work toward sustaining their longterm presence.<sup>10</sup>



## INVESTMENT TYPES GREENFIELD INVESTMENT VS. MAA

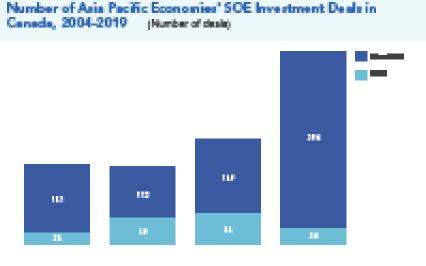
Asia Pacific Economies' Greenfield and Merger & Acquisition

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## TABLE-CHINED ENTERPHISES IN GAMAGA: DESPITE THE PUBLIC ATTENTION, A DECLINING PACTOR



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Asia Pacific Economies' SOE Investment into Canada, 2004-2019 Investment Value (C\$ Million)

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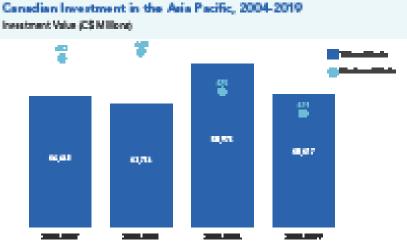
#### BOX 6. TWO-WAY FOI DURING THE 2008-2009 ECONOMIC CRISIS

During the 2006 financial crisis, Canadian SIII inflows from Asia Pacific seconomies remained strong as a new wave of investments led by China's "Go Global" policy in Canada started. In 2008, Canada neosteed C\$5.28 in investment from the region, an 85 percent increase from the previous year's total of C\$2.88. Purthermore, in 2009, Canadian inbound investment from the Asia Pacific reached C\$7.38, a 42 percent increase from 2008. During the sconcentic crisis, three sconomics - China, Japan, and Amitralia - dominated Canadian inbound investment. The biggest scores sconcery between 2008 and 2009 was China with C\$5.88, accounting for 46 percent of the total C\$128 of investment from the Asia Pacific. Meanwhile Japan invested C\$4.68, making up 37 percent of the total amount. Lastly, Amitralia invested C\$1.78, accounting for 14 percent of the total investment inflow from the region during this period.

The biggest deal made in 2006 was a C\$1.25 investment by the Japanese sutomaker Toyota Group in the Canadian automobiles and parts sector, for a new suto assembly plant in Ontario. In 2009, the biggest deal was a C\$2.36 investment by Chinese SOE China National Petroleum Corp. in the Canadian mining and of and gas sector, when it acquired 60 percent of the shares of Calgary-based Athabasca Oil Sands Corp.

On the other hand, outboard Canadian investment into the Aria Pacific amounted to C\$17B in 2008, a 35 percent increase from the previous year's total of C\$12.6B. However, in 2009, Canadian outward investment dropped by 45 percent to C\$9.7B. Between 2008 and 2009, Chinasawithe bon's share of Canadian investment, receiving C\$8.6B and accounting for 22 percent of the total C\$26.7B of outward investment flows to the region. In second place, Vietnam received C\$5.6B, accounting for 21 percent of the total outward investment, while in third place Australia received C\$4.2B, accounting for 16 percent. India also received C\$38 of investment from Canada (11 percent), making it the tourth-largest recipient among the Asia Pacific economies during the economic crisis.

In 2006, the biggest outbound Canadian investment to the Aria Pacific was made by Toronto-based Arian Coast Development Ltd. with a C\$5.18 investment in the Vietnamese travel and letrare sector to build a carino and beach resort. In 2009, the biggest deal was made by Torontobased Brockfield Arast Management with a C\$1.48 investment in Sydney-based Babrock & Brown Infrastructure to acquire a 40 percent stale of the firm.



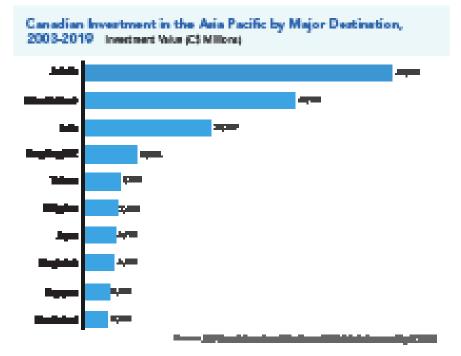
## OUTICIEND THENDS AND INCOMERS: CANADA CONCLUCTING FEMERICEALS, WITH FEMERICKILLARS

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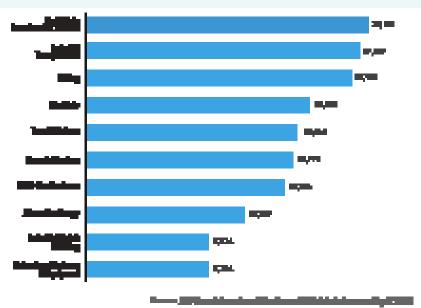


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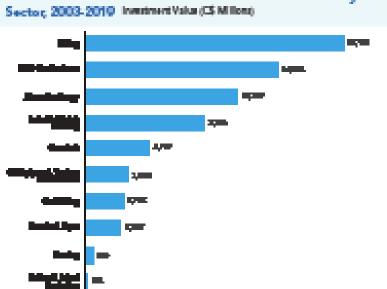
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#### CANNOA INVESTING IN A VALLETY OF SECTORS



Canadian Investment into Asia Pacific by Sector, 2003-2019 Inestment Value (C\$Million)

#### Alternative states 101 (Mar 1997)



Canadian Investment into Asia Pacific Natural Resources by

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#### BOX 7. CANADIAN INVESTMENT IN CLEANTECH

Cauda is one of the leading countries in clean technology in the world. The country supplies 17.5 percent of its energy from renewable scences, whereas other Organisation for Reconstric Co-operation and Development (ORCD) countries only produce 10.2 percent, on average. Moreover, Canada was recorded as the second-largest producer of hydroelectricity, providing 60 percent of the country's electricity generation in 2016. The country has developed not only hydroelectricity intensively but also biomass, what power, solar power, and liquid biotrads. With such high potential and capacity, Canadian burinesses have invested in cleantech markets all over the world, and APF Canada mornions these outflows and investment inends in the Aria Pacific using the modified Industrial Charification Benchmark (Modified DOB) as well as the North American Industry Charification System (NADCS).

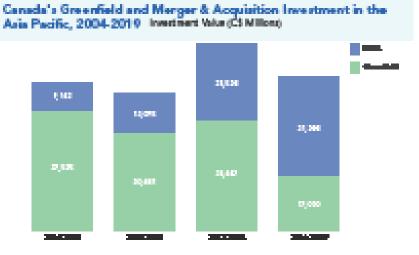
From 2003 to 2019, Canada invested over C\$22.68 to 72 cleantech deals in the Asia Faciliz. Top destinations for the outboard investments were China, Emgladeeb, Japan, Fakirian, India, and Australia. The Investment Monitor data captured C\$6.68 worth of Canadian cleantech investment into Bangladeah (3 deals), C\$5.18 worth of investment into China (22 deals). C\$3.58 worth of investment into Japan (18 deals). CS2.55 worth of investment into Fakintan (2 deals). CS1.95 worth of investment into India (9 deals), and CS1.48 worth of investment into Azertails (i) deals). In the past four years, there was a similarit increase in the number of Canadian investment deals in the Asia Pacific cleantsch sector. The number of deals made between 2015 and 2019 doubled from 16 deals to 35 deals compared to the preceding period (2011-2014), and the amount of Canadian investment in the Asia Pacific increased from CS4.25 to CS13.75. In 2015, the bierest deal made in cleantsch was from Toronto-based SkyPower Global to Bangladeth's solar power sector, worth C\$6.18.

Considering outboard cleantech investments from Crasda, between 2003 and 2019, 50.2 percent was in alternative electricity, 43.7 percent was in renewable energy equipment, and 6.1 percent was in alternative fuels. While almost 55 percent of the total cleantech investment went through greenfield deals, 44 percent went to MSAA deals.

Between 2016 and 2019, the Asia Facilic cleantech industry received 22 investment deals (C\$2.76) from Canada, 14 in alternative electricity (C\$36), 6 in renewable energy equipment (C\$0.48), and 2 in alternative fuels (C\$0.28). Top distinuitons were Japan (40%), India (26%), Asstralia (17%), and China (8%).<sup>24</sup> BOX 6. FOI FLOWS BETWEEN CANADA AND THE ASIA PACIFIC IN HEALTH CARE-RELATED SECTORS

In the past 17 years, health cree-related sectors in Canada have received C\$3.78 of Aria Pacific investment. The bulk of the Aria Pacific investment in Canada concentrates in the pharmaceutical and health care equipment and services sector, with C\$1.98 and C\$1.88 of capital injected, respectively. There has been a dramatic increase in tabound investment from the Aria Pacific in the last eightyears. In the latest incryear period, Canada has received C\$2.18 of Aria Pacific investments, a C\$67MM increase from the 2012 to 2015 period. Much of the increase has been driven by a 2017 transaction that saw Cedar Tree Investment, a subtidiary of Chinese 2012 Aniang insurance Group, acquire the Vancouver-based Retirement Concept, a retirement house clarin, for C\$15. One notable investment in 2013 was the Japan-based Teramo Medical Corporation, a medical device manufacturer, which expanded into the Canadian market with a C\$27M investment to open a new facility in Vaughan, Ontario.

From 2003 to 2019, Canadam onfound FDI to the Aria Facilic in health care-related sectors new a similar level of investment in dollar terms to the inbound FDI from the region. In this period, Asia Pacific sectormies sures total of C\$5.8B of Canadam investments in beakh carerelated sectors. Of the C\$5.8B of Canadam investments (C\$1.7B went to the pharmaceutical sector, C\$1.1B to biotechnology, and C\$345M to health care equipment and services. In the last eight years, Canadam investment in the region has drastically increased, from C\$273M in the 2012 to 2015 period to C\$1.1B in the most recent four-year period. One of the largest dollar-value transactions in the recent period came in 2018, when Toronto-based StorthWest Healthcare Properties acquired a 10 percent stabe in Melbourne-based Healthcape, a private healthcare provider, through a C\$462 investment.



## CANACHAN FIRMS STULL ENTERING WITH GREENFIELD-DEALS

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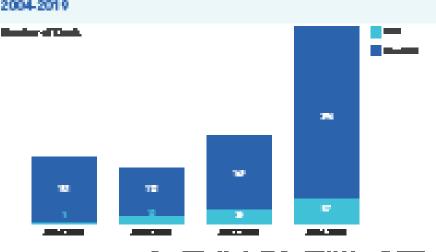
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#### الكابر المستخذة الأستاط المتعاقدات الأسط



Number of Canadian SOE Investment Deals in the Asia Pacific, 2004-2019

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#### BOX 9. THE RISE OF CANADA'S PENSIONS

More than ever, Canada's outboard investment relationship is being shaped by the presence of large, state-owned famile. The 2010s new their activity increase dramatically, as these bands --primarily penatons - nearly impled their flow of new investments, from C\$10.25 in the tint half of the decade to C\$26.35 in the latter half. But while more than half of the investment value in the 2010 to 2014 period was in Australia's financial services and real estate sectors, more recent years have neen a diventification of investment targets. Investments in Australia's industrial transportation and real estate sectors still played a major role in the 2015 to 2019 period, but were supplemented by large flows into Mateland Chrina's real estate investment and services sector and Hong Kong's general retail sector. Additional flows of investment, worth bundreds of mellions and dollars spices, went into India's industrial transportation, electricity, and scale state sectors and into South Rowa's general retail and real estate sectors.

The Toronto-beadquartered Canada Pension Plan Investment Board, a Canadian state-owned Crowncorporation, leads the packfor all Canadian investors in the Asia Pacific. Last year's C\$29656 invested into India's equity investment sector was a small fraction of the C\$26.68 in CPFIE investments recorded by the APV Canada Investment Monitor, C\$14.78 of which was invested in just the past four years. These high investments have been driven by the CPFIE's acquisitions in the Assemban financial services and industrial transportation sectors, Mainland China's real estate and industrial transportation sectors, and Hong Kong's general retail sector.

Another of Canada's largest, state-cented pension plane entered the Indian market last year, with the Oniario Municipal Employees Retinement System (OMERS) investing C\$160M into India's marked services sector. CMERS's C\$4.18 invested into the region has been mainly forward on Australia's real estate investment and services sector. Libereise, state-cented pension and institutional investor CDFQ invested C\$346M into Indian non-equity investment instruments last year, bringing the firm's total to C\$4.28 in the region. Aside from nonequity investments in India, the CDPQ's investments in the region have centred on India's electricity sector, Mainland China's real estate investment and services sector, and Australia's health care equipment and services sector.

Another state-counsed Canadian investor to cross the billion-dollar mark is British Columbia Investment Management Corp., a penaton and investment manager, with C\$1.3B invested in Australia's industrial transportation sector. Similarly, the Public Sector Penaton Board massed that threshold with the C\$1.3B invested in the region, almost entirely in New Leahnd's travel and leinure sector.

Even with the energence of Canadian state-owned pensions in the region, large private-sector funds continue to invest significant amounts in the Asia Facilic, typified by the C\$1.05 invested in 2019 by Brochfield Asset Management Inc. In New Zealand's software and computer services sector. The Toronto-based asset management computer (\$14.05 invested in the region, C\$5.55 of which was invested in just the five most recent years, has been heavily for used on Australia's real estate investment and financial services sectors and in India's real estate investment and services sector.

Similarly, Toronto-based financial institution Marulate Financial has invested C\$6.15 in the Asia Pacific region, mainly in Mainland China's financial services sector, Singapore's real-series investment and services sector, and Hong Kong's life insurance sector.

# THE PROVINCIAL PICTURE

## KEY SECTION TAKEAWAYS

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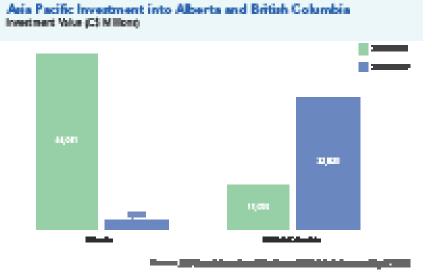
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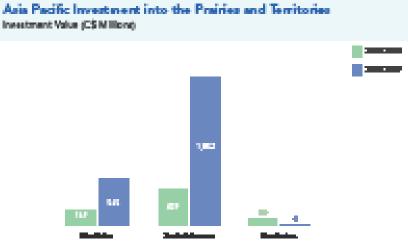
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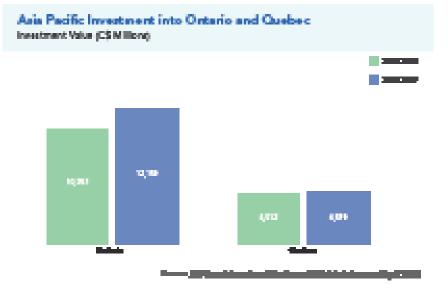


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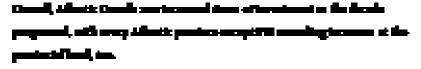
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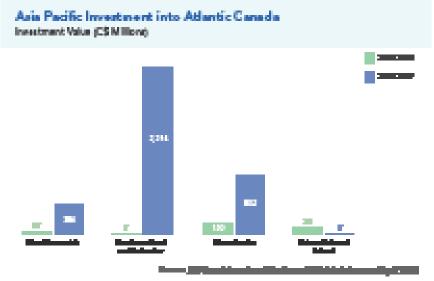
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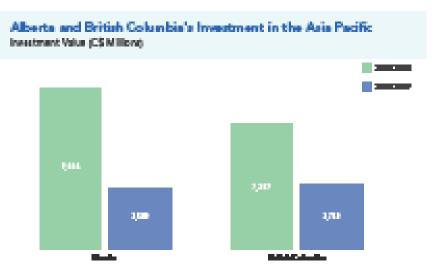
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188 wa wagini kilon la da kati kitu téha kasis, at Qiliti kuwa kanimatani da kati kitu kati kati kitu wa kati kitu kuma ara tanatani. Ka kapan datan kya sati kilon at Qiliti kuma kanimata anishi kanima sali mapinewata.

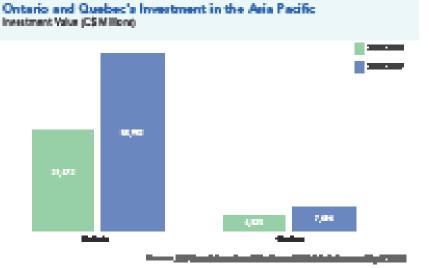
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Cally sight genetices, and an institution, terminal in the state Particles file 2016: Endheilands- and CC-annual State of Constituted Stational states file Statelle, and significations in the states instances instances 2008 and 2009.



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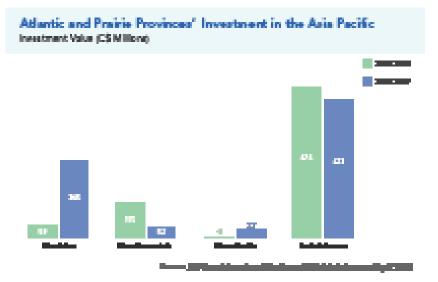
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# CITY-LEVEL HUBS OF INVESTMENT ACTIVITY

#### KEY SECTION TAREAWAYS

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   Reside, openeously, a strangent with the same dis Partie. Desirg that many parts \$1,50 Consider attachments into a littles or some into the regime, new with Tambala at status.
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### CANADIAN CITIES OUTICAUND TO ASIA PACIFICS FROM ANZAC TO WATERLOD

Top Source Cities of Outbound Investment to the Asia Pacific, 2008-2019

\$ Rask	ску	la vectos att Value (C\$ 1410 cm)	Deal Coant
٩	Teresia. Catalo	171.JE	
2	Vancouver, British Columbia	25,510	507
*	Calpuy. Alberta	22.407	19
4	Montreal, Guebec	19,010	230
÷	Malmoga, Ontario	496	អា
6	Guelph, Ontario	4,422	29
7	Biosolon, Alberta		R
	Kitchener, Ontario	3,320	17
Ŧ	Bellan, Créato	2.579	ч
10	Autora, Ontario	2,269	45
14	Otore, Ontario	1468	8
12	Saskatoon, Saskatcheven	1,757	11
19	References Ballion Colombia	1,200	
14	Antac, Alberta	1,540	4
•	Weisels, Brillet Columbia	1.307	2
16	Orangeville, Ontario	1,094	1
T	Bang-MilkirCalantile		+
18	Maditian, Ontario	871	19
7	Canadary Clip Custon	734	1
20	Burneby, British Columbia	636	18
8	Weisler, Griefe	F.8	7

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### CANNONAN CITIES INBOUND FROM THE ASIA PACIFICS INVESTMENTS FROM COAST TO COAST TO COAST

Top Destination Cities for Inbound Investment from the Asia Pacific, 2003-2019

\$ Rank	ску	la veriment Value (C\$ Million)	Deal Court
٩	Calgory-Alberta	41.476	79
2	Kitimat, British Columbia	24,835	0
•	Resource in this Columbia	14.277	14P
4	Toronto, Ostario	10,955	161
	Petideitens Alleria	7007	4
6	Montreal, Quebec	5,921	60
7	Westing, Columb	4.577	A
8	Dawson Creek, British Columbia	3,264	,
•	Carthling, Colario	14	
10	Durenny Alberta	2,453	1
11	Disertion. Advertis		
12	St. John's, Newfoundland and Labradior	2,297	2
19	Allting, Cristle	21	Ŧ
- 14	Aurora, Ontario	1,851	3

Name of the Association of the A

Laisana 2005 and 2008, 100 allos and dip hading toor to Canada anniad Lanakanakip alla dia angka gan da kaynal dia kagasi manantita . Kana mang dia 10 kagasi migimi ka kaynal dia kagasi manantita . Kana mang dia 10 kagasi migimi kayndia, manantita maga kan Canada'a mani pepulawanya Panasa, ta Carkada at Canang, Alasia.

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While Canada's largest cities and towns have received the majority of the Aris Facific's investment into Canada, a full quarter of investment value since 2003 has been into communities and areas classified as rural by Sististics Canada. In all, the APF Canada Investment Monitor records investment from the Aris Facilic into 61 different rural communities, for a total of C\$405 in necessed investment over the past 17 years.

A significant share of suml investment is associated with one location in BC, in the oil and gas production sector specifically, the C\$26.68 invested into Kitimat, BC, for light natural gas export facility projects. Off and gas production was also the target for second-maked Deversay, Alberta, with C\$2.58 going into the exploration and development of oil resources by China National Petroleum Corporation under a joint weature agreement with Encarta.

Other locations have also passed, or are close to, the billion-dollar mark, spursed by investments into varying forms of energy and mining. Fort Nelson, BC, saw C\$1.35 flow into oil and gas produces, primarily driven by a consortium of five Japanese companies collaborating on a shale gas project. For Quebec's Labrador Torough, C\$1.75 was invested into industrial metals and mining under a joint venture agreement with a consortium led by South Kones's Johang Iron and Steel Company and Takem's China Steel Corporation. Letellier, Manifola, received C\$1.25 stemming from an investment in alternative energy as the Australiabased Babcock & Brown invested in the development of a 200-megnetit wind farm. Investments in coal mining brought the Peace Rivercoalitable to C\$97604, as Australia's Xatrata Coal and Japan's JX Nippen Oil & Energy Corporation invested to develop metallargical coal in the region.

Sprace Labe, Saskatchewan, size C\$744M, also driven by oil and gas production, namely Hong Kong-owned Husby Energy's two steamautisted heavy oil scittation phote near the hamlet. For Wheatland County, Alberta, C\$677M steammed from Japan's Toyota Group reaching an agreement with Encara to acquire an interest in Encara's coalbed methane project. Red Lake received the largest investment into rural Ontario, with C\$4999M invested in mining as Australia's Exclusion Mining bought a Canadian gold mining complex at Red Lake from USbased Newmont Goldcorp.

1

#### AND DEPENDENCE OF COMPANY

Top Rural Municipalities for Inbound Investment from the Asia Pacific, 2003-2019

\$ Rank	Real Location	Investment Value (CS Hillions)
ų	Minut Irlin Columbia	31.05
2	Duverney, Alberta	2,453
*	Pert Holes, Bolish Columbia	136
4	Labrador Trough, Guebec	1,223
•	Leistler, Visitian	1.05
6	Peace River Coalifeids, Bridish Columbia	976
7	Apren Isle. Antoinionen	744
	Wheatland County, Alberta	677
۴	Rei Lain. Criste	和
10	Shelburne, Ontario	453
14	Blait. Particent Texturier	446
12	Maldstone, Satkatchevan	372
19	Dis. Islaid-sun	36
14	Mervin, Saskatchewan	365
76	feren Selektren	271
16	Testace Bay, Ontario	205
T	Dullada, Orizato	277
18	Minnedosa, Manitoba	244

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### ASIA PACIFIC CITIES' INVESTMENT INTO CANADA. IN A YEAR OF TENSE TIES, CHINA'S CITIES STILLED

Top Source Cities of Inbound Investment from the Asia Pacific, 2003-2019

S Raek	cay	la vestra ent Vale e (C\$ Hillions)	Deal Court
ų	Light City		99
2	Tokyo, Japan	22,144	194
	Roy Reg. Cite	16.000	м
4	Kuala Lumper, Malaysia	12,636	17
•	Tepria. Jepon	148	<b>3</b>
6	Secul, South Korea	5,217	49
7	iping fainth		×
	Perh, Austalia	2,068	32
•	Longan Cite	1176	7
10	Melbourne, Australia	2,395	39

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### ASIA PAGIFIC CITIES" INVESTMENTS FROM CAMADA: Mumbaj leads the tear

Top Destination Cities for Outbound Investment to the Asia Pacific, 2008-2019

\$ Rask	ску	la verire est Value (CS Million)	Deal Court
٩	Network Autob	17.170	N
2	Sydney Australia	17,171	96
*	Roy Reg. Cites	1129	<b>##</b> I
4	Perih, Australia	9,988	57
ŀ	Regist.Circ	2017	11
6	Bengaluru, India	6,929	37
7	Nantal Inde	4.90	<b>••</b>
	Gopalgani, Bangladesh	6,149	1
<b>P</b>	Miles Cire	5.6 <b>7</b> 5	119
10	Singapore	5,421	102

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## CONCLUSIONS

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# METHODOLOGY AND DATA SOURCES

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# **Glossery and Abbreviations**

Abbreviation/ Term	Meaning	Definition
ABS	Australian Bureau of Statistics	The ABS is Australia's national statistical agency
APF Canada	Asia Pacific Foundation of Canada	The Asia Pacific Foundation of Canada (APF Canada) is a not-for-profit organization focused on Canada's relations with Asia.
ASEAN	Association of Southeast Asian Nations	ASEAN is a regional grouping that promotes economic, political, and teculity co-operation among its 10 members: Brunel, Cambodia, Indonésia, Laos, Maberia, Myanmar, the Philippines, Singaporé, Thailand, and Vietnam.
err	Bilatecal investment treatiles	Bibsteral investment treaties are international agreements establishing the terms and conditions for private investment by nationals and companies of one state in another state.
CRETA	Carada-Korea Free Trade Agreement	The COFTA is a free trade agreement signed between Canada and South Korea in 2014.
Clearted	Clean technology	Clean technology is defined as any process, product, or service that reduces environmental impacts.
C0PG	Calisse de Dépôt et Placement du Guébec	The CDPO is an institutional investor that manages reversal public and partly public pension plans and insurance programs in Quebec.
OPPE	Canada Pereion Plan Investment Board	The CPPIB is a Caradian Crown corporation established to manage and invest funds held by the Carada Pension Plan.
CPTP9	Comprehensive and Progressive Trans- Pacific Partnership	The CPTPP is a free trade agreement between Canada and 10 other countries in the Asia Pacific region: Australia, Beurel, Chile, Japan, Malaysia, Mexico, New Jealand, Peru, Singapore, and Vietnam.
FDI	Foreign direct investment	Foreign direct investment is a long-term investment by a resident or enterprise from one economy into a tangible asset in another economy. This investment can involve either a greenfield investment or acquisition consisting of at least 10 percent of the equity or voting shares of a finit. PDI in this report is reported as inbound and outbound. Inbound PDI refers to investments made by companies from the Asia Pacific into-Canada, and outbound PDI refers to investments made by Canadian firms into the Asia Pacific region.
Flow		Flow refers to the movement of capital for the purpose of investment, adding to or removing from an economy's stock.
FPA	Foreign investment promotion and protection agreement	A foreign investment promotion and protection agreement is a bitsteal agreement designed to protect and promote foreign investment through legally binding rights and obligations.

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FPI	Foreign portfolio investment	Foreign portfolio investment refers to investing in the financial assets of a foreign country, such as stocks or bonds available on an exchange.
FTA	Free tode agreement	A free trade agreement is a treaty between two or more countries to facilitate trade and eliminate trade barriers.
GDP	Gross domestic product	GDP is the total monetary or market value of all the finished goods and services produced within a country's borders in a specific time period.
Greenfield		Geenfield investments typically consist of firms' establishment or expansions of their subsidiaries in a different economy. For example, this can involve investments into new offices or company branches.
68	industrial Classification Benchmark	The industrial Classification Benchmark is a global standard for the consportation and comparison of companies by industry and sector. This report uses a modified ICB, where certain investment activities have been classified differently to fit the needs of the Investment Monitor.
industry		An industry is a broad classification of companies that are related based on their primary business activities.
Joint venture		A joint venture is a business arrangement in which two or more parties agree to pool their resources for the purpose of accomplishing a specific task.
UNG Canada	Liquefied Natural Gas, Canada	UNG Canada is a joint venture among Shell, PETRONAS, PetroChina, Mitsubishi, and KOGAS.
мал	Mergers and acqueitions	Mergen and acquisitions are a type of investment wherein the partial or full ownership of companies is either obsolidated with or transferred to other firms.
NAFTA	North-American Free Trade Agreement	NAFTA is an agreement among the United States, Canada, and Mexico to eliminate trade barriers between the three economies, implemented in 1994. The new Canada-United States-Mexico Agreement (CUSMA), signed in 2010, has since replaced NAFTA.
NACS	North American Industrial Classification System	NWCS was developed by the statistical agencies of Canada, Mexico, and the United Statel. This report uses the NWCS Canada 2017 Version 3:0.
NOP	National Opinion Pall	Since 2004, the Asia Facilic Foundation of Can- ada has been conducting regular nationwide surveys to assess Canadians' attitudes toward countries in the Asia Facilic, and their percep- tions of Canada-Asia relations. Unique in its construction and its objectives, APF Canada's National Opinion Pol has been instrumental in drawing a portrait of Canadians' perspectives on Asia and the regionit increasing relevance to Canada's prosperity.

### AND DEPENDENCE OF COMPANY

OMERS	Ontario Municipal Employees Retirement System	OMERS is an Ontario government pension fund for local government employees in the province.
Pacific Alliance		The Pacific Alliance is a regional economic bloc composed of Chile, Colombia, Mexico, and PenA established in 2011.
Privately owner	lenterprise	A privately owned enterprise is a commercial enterprise owned by private investors, share- holders, or owners. Also referred to as non-SOE.
Sector		A sector is a classification of businesses and economic activities that share the same or a related product or service. Under the ICB, these sectors are clustered together under industries.
906	State-owned enterprise	A state-owned enterprise is a commercial enter- prise owned by a government.
Stock		A stock, in contrast to flow, is a quantity of capi- tal and money that is measurable as a particular point of time.
StatCan	Statistics Canada	Statistics Canada is Canada's national statistical agency, providing economic, social, and census class.
UNCIAD	United Nations Conference on Trade and Development	UNCTAD is the main UN body dealing with trade, investment, and development issues.

### Sources

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# 2019 NATIONAL OPINION POLL

Canadian Views on High-Tech Investment from Asia

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# ABOUT THE ASIA PACIFIC FOUNDATION OF CANADA

The Asia Pacific Foundation of Canada (APF Canada) is dedicated to strengthening ties between Canada and Asia with a focus on expanding economic relations through trade, investment, and innovation; promoting Canada's expertise in offering solutions to Asia's climate change, energy, food security, and natural resource management challenges; building Asia skills and competencies among Canadians, including young Canadians; and improving Canadians' general understanding of Asia and its growing global influence.

APF Canada is well known for its annual national opinion polls of Canadian attitudes regarding relations with Asia. APF Canada places an emphasis on China, India, Japan, and South Kozea, while also developing expertise in emerging markets in the region, particularly economies within the Association of Southeast Asian Nations.

Visit APF Canada at www.asiapacific.ca.



# ABOUT THE NATIONAL OPINION POLL

Since 2004, the Asia Pacific Foundation of Canada has been conducting regular nationwide surveys to assess Canadians' attitudes toward countries in the Asia Pacific, and their perceptions of Canada-Asia relations. Unique in its construction and its objectives, APF Canada's National Opinion Poll has been instrumental in drawing a portrait of Canadians' perspectives on Asia and the regim's increasing relevance to Canada's prosperity.

The 2019 National Opinian Poll: Canadian Views on High-Tech Investment from Asia is the first thematic survey of the year with a focus on Asian direct investment in the Canadian high-tech sector. With a representative sample of the Canadian population, the objectives of this poll are three-fold:

- To gauge Canadian attitudes toward inbound foreign direct investment, especially from different Asian economies, into the high-tech sector;
- To examine factors (country, mode of investment, sector, perceived risks and benefits, etc.) that abape these attitudes; and
- 3. To inform public policy on engaging Asia in the high-tech sector.



# FOREWORD

For the past 15 years, the Asia Pacific Foundation of Canada has conducted regular nationwide surveys to assess Canadians' attitudes toward, and perceptions of, Canada-Asia relations. Not only does the National Opinion Poll (NOP) serve as a valuable source of information on Canadian perspectives on the rise of Asia and its importance to Canada's economic well-being, but it also provides a unique tool for our nation's policy-makers.

Every year, the NOP gauges Canada's broader views on Asia, as well as polling Canadians on specific areas of interest, including views from specific cuborts, on particular economies, and on specific aspects of the Canada-Asia trade and investment dynamic.

This is the first of two pulls in 2019, and it targets Canadian views on high-tech investment from Asia, and in particular, investment from China. Our second pull will focus on human capital, gauging Canadians' attitudes toward skilled workers and foreign talent.

Given the federal government's investment in the Canada Innovation Superclusters Initiative and other innovation policy issues, we feel this poll on high-tech foreign investment is particularly timely. It clearly demonstrates that Canadians acknowledge and understand the pivotal role Asia will play in global innovation and advancement, but highlights areas and issues of concern that will demand further public policy considerations.

I would like to acknowledge and thank the members of our APF Canada research team who are responsible for collating our survey data and finalizing this report, in particular Yushu Zhu, our Program Manager, Surveys and Polling, who oversaw this important project.

Stavent Back, President and CEO, Asia Pacific Foundation of Canada

# EXECUTIVE SUMMARY

While Canada boasts a vibrant and diverse tech sector, many Canadian high-tech businesses still face challenges such as barriers to scaling up, accessing capital, and/or developing human capital. The rise of Asia as a technological powerhouse and as a source of growing outbound foreign direct investment (FDI) underscores the importance of the region to Canada's high-tech businesses and overall economic growth. As the U.S.-China tech war and the global Huswei crisis continue, however, Canada finds itself at a crossroads of how to tap into the vast potential of Asian markets while safeguarding national security and Canadian values, particularly when it comes to China, which has entrenched itself as a global disruptor in the high-tech space.

Against this backdrop, the 2019 National Opinion Poll: Canadian Views on High-Tech Investment from Asia aims to understand Canadian attitudes toward Asian FDI in the Canadian high-tech sector, key drivers of these attitudes, and the expected role of the government in engaging Asia in the sector.

### 10 key takeaways from the poll:

Canadians have an optimistic outlook of Asia as a future forerunner and asurce of capital in innovation and technology. Seven in 10 Canadians believe Asia will be driving global innovation and technological advancement in 10 years, and 66% think that Asia will outperform the United States to become a more important source of capital in Canada's high-tech sector over that same period. Half of Canadians also see the high-tech sector as a key driver of the Canadian economy.

This optimistic outlook does not translate into favourable views of Asian FDI in Canach's high-tach sector. Over half of Canachans disagree that the potential benefits of baving more high-tach-oriented Asian investment in Canada outweigh the potential risks. A slim majority (56%) would also oppose having more FDI from Asian economies enter the high-tach sector, although the opposition is weaker for high-tach compared with strong opposition (over 65%) for both the financial services and non-zenewable energy sectors.

Canadians tand to perceive "too much" as appeared to "too little" high-tech FDI from Chine, India, and the U.S. A significantly higher percentage of people believe that Canada is allowing in too much investment from these three countries compared to these who think the government is allowing in too little. For Australia, the European Union, the United Kingdom, and Japan, meanwhile, Canadians are more likely to perceive too little than too much investment into Canada.

Canadians are more open to Asian FDI in the digital media, cleantach, and life acience sectors then in information and communication technology (CT) and artificial intelligence (A). The subsector receiving investment is an important factor in public attitudes toward high-tech investment from China and India. Support for Chinase investment drops from 34% in digital media to 16% and 15% in AI and KT, respectively, while India's support rate drops from 42% in digital media to 28% in AI. Support for hightech investment from Japan and Australia, meanwhile, remains high for all subsectors.

Joint ventures with Canadian firms and funcing high-tach research and education programs are the most welcomed modes of Asian investment in Canada's high-tach sector. Japan, India, and China all receive strong support for investment through these channels, ranging from 43% support for China to 67% support for Japan. In contrast, greenfield and bravefield investments are much less welcomed.

Among selected factors on public attitudes toward high-tech FDI, the most influential ones are country of origin, subsector, and access to information addressing public concerns. Statistical modelling shows that "China" and "telecommunications" are driving the alopticism around FDI in the high-tech sector. Public information addressing concerns around national security and economic banefits of an investment is conducive to significant mitigation of that alopticism. Mode of investment (greenfield versus brownfield) and ownership structure (state-owned versus privately owned), although also important factors, carry less weight in abaping public opinion.

Conscients associate different benefits and risks with high-tech FDI from Chine, Japan, India, and the U.S. Job creation is one of the top benefits associated with receiving investment from these four countries. Other top benefits include access to capital (Chine, U.S.), access to foreign markets (Chine, India), access to high-tech talent (Japan, India), and know-how transfer into Canada (Japan, U.S.). Concerns around Chinese investment are all security-related – i.e. national security, cyber security, and intellectual property infringement. People also associate "risks to cyber security" with Indian investment and "foreign influences on Canadian values" with U.S. investment. Japanese, Indian, and U.S. investment is also associated with increased foreign competition (Japan, India) and the transfer of high-tech talent (Japan, U.S.) or know-how (Japan, India) outside Canada. There is public trust in Canadian regulations related to data and privacy protection, but a lack of confidence in the government's risk-banefit assessment of foreign investments. Half of Canadians think Canada has strong regulations to protect individuals' data and privacy. But over half (54%) are not confident that the government performs a balanced review of the risks and benefits of prospective investment projects, and the vast majority (81%) desire a more open and transparent national security review process.

Canadians would support a proactive government in shaping global norms on tachnology use and deepening angegement with Asia in the high-tach sphere through research and aducation. The vast majority (87%) of Canadians would like to see the government play a proactive role in "shaping a global norm on responsible and accountable use of advanced technologies." Menowhile, the public would welcome public policies to support Canada-Asia partnerships/callaboration on innovation research (71%) and to encourage Asian investment into high-tech start-ups (53%).

There is a regional divide in public opinion on Asian FDI in the high-tech sector, with Quebec being the most positive and British Columbia the most negative. Quebecezs hold more positive attitudes toward Asian high-tech investment across a number of metrics – they are the most supportive of having more Asian investment in the high-tech sector, less likely to see "too much" high-tech investment from Chine, and less likely to oppose relieving restrictions on high-tech FDI. In contrast, British Columbians show the strongest skepticism toward high-tech-oriented FDI from Asia, with the most akeptical view of potential benefits of Asian investment and the strongest opposition to relaxing restrictions on high-tech FDI.

# OVERALL FEELINGS ON ASIA AND HIGH-TECH FDI

Overal, Canadians are optimistic about Asis's innervation performance and the region's importance for the Canadian high-tech sector; yet they also show skepticism shout technology-oriented Asian investment into Canada.

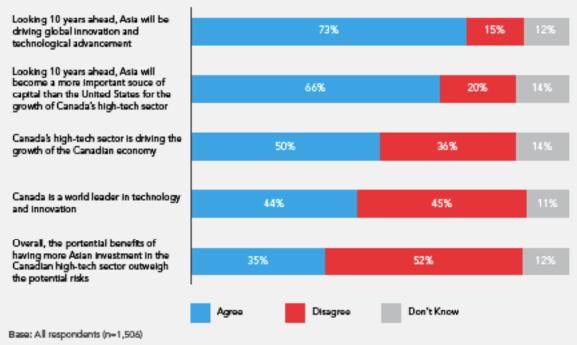
Canadians see Asia as central to technology and innovation yet are concerned with the potential risks of having more high-tech FDI from Asia into Canada.

Asia is seen by the majority of Canadians as a future foreronner in innovation and technology and an important source of capital for the Canadian high-tech sector. Seventy three percent agree with the statement that "looking 1D years ahead, Asia will be driving global innovation and technological advancement" and 66% agree that "Asia will become a more important source of capital than the United States for the growth of Canada's high-tech sector."

In contrast, Canadians hold a more modest view of Canadian performance in technology and innovation. While Canada ranks 18 out of the 126 countries in the <u>Global Innovation</u>. <u>Index 2018</u>, the public is divided (44% agree; 45% disagree) on whether Canada is a world leader in technology and innovation. However, most Canadians do recognize the importance of technology/innovation in the Canadian economy, with 50% saying that the high-tech sector is driving Canada's economic growth.

Despite the overall optimism about Asia in technology and innovation, Canadians remain akeptical of the potential benefits Canada can get from technology-oriented Asian investment. About half (52%) of Canadians disagree that having more Asian FDI in the Canadian high-tech sector would involve more benefits than risks, compared with 35% who agree.

#### A positive outlook of Asia in technology and innovation yet skeptical views of the potential benefits of having more high-tech-oriented Asian FDI

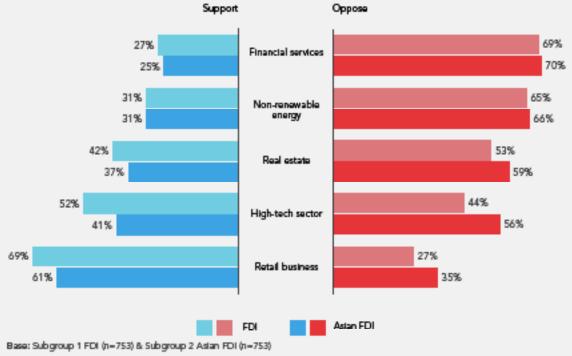


Question: Do you agree or disagree with the following statements regarding Canada's high-tech sector?

#### Public support for having more Asian investment in the high-tech sector is weeker than in the retail sector, but stronger than in financial services, non-renewable energy, and real estate.

Is public sentiment toward Asian FDI in Canada's high-tech sector reflective of public perceptions of "Asia," or of FDI in the high-tech sector generally? To address these questions, we conducted a split-sample survey experiment. Specifically, the national sample was split into two sub-samples that are equally representative of the Canadian population by region, gender, and age. Subgroup 1 was asked one question about overall FDI in different sectors: "Would you support or oppose the Canadian government allowing more foreign direct investment in the following sectors?" and Subgroup 2 was asked specifically about FDI from Asia: "Would you support or oppose the Canadian government allowing more foreign direct investment from Asian economies in the following sectors?"

Across different sectors, both groups are the most supportive of FDI in retail businesses with over 6D% in favour. In contrast, the great majority (over 65%) of both groups disapproves of baving more FDI in the sectors of financial services and non-renevable energy. While the attitudes of the two groups converge in non-renewable energy and financial services, significant between-group differences exist in the sectors of retail, high-tech, and real estate. Heving "Asis" in the question seems to amplify concerns over foreign investment into these sectors – Subgroup 2 with the "Asia" question reported less support and more opposition for all three sectors. The high-tech sector sees the biggest differences between the two groups. Fifty-two percent of Subgroup 1 would support more FDI in the high-tech sector and 44% would oppose; in contrast, responses from Subgroup 2 (with the Asian FDI question) reverse, with 41% in support and S6% opposed. The contrasting attitudes between the two groups suggests a beightened sensitivity toward Asian investment in the high-tech sector. As this report will subsequently discuss, the orgoing Huswei crisis and the growing global anxiety about potential security risks pased by the Chinese tech firm may be influencing public perceptions of high-tech-oriented FDI from Asia more generally.



Canadians have moderate opposition to Asian FDI in the high-tech sector

Cuestion: Subgroup 1: Generally speaking, would you support or oppose the Canadian government allowing more foreign direct investment into the following sectors? Subgroup 2: Generally speaking, would you support or oppose the Canadian government allowing more foreign direct investment from Asian economies (e.g. Japan, South Korea, India, China) into the following sectors?

Note: Percentages of "Don't know" not shown

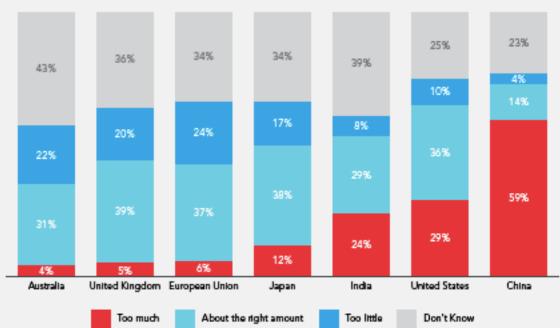
# DISSECTING PUBLIC OPINION ON ASIAN HIGH-TECH INVESTMENT

Analyses in the subsequent sections reveal a more complex picture of Canadian views, which vary with the origin country of investors, mode of investment, ownership structure, and perceived outcomes.

Canadians are more likely to perceive that Canada receives "too much" high-tech investment from China, the U.S., and India then from Japan, the EU, the U.K., and Australia.

When asked whether they think Canada has "too much," "about the right amount," or "too little" investment in the high-tech sector from each of the listed economies, S9% of Canadians say there is too much investment from China, substantially higher than the U.S. (29%) and India (24%), the other two countries that top the list. For Japan, the EU, the U.K., and Australia, Canadians are more likely to perceive that Canada receives "too little" than "too much" high-tech FDI from these countries.

Notably, a significant number (23%-43%) of the population indicates a lack of knowledge ("Doo't know" responses) about this question. Similarly, 63% of the respondents say that they are "out very knowledgeable" or "not knowledgeable at all" about FDI in Canada. As our <u>2015 National Opinion Poll: Canadian Views on Asian Investment</u> shows, a lack of information could create misperceptions and lead to ill-informed public opinion. This underscores the importance of accessible and transparent information for a better-informed public.



Canadians are more likely to perceive "too much" investment from China, U.S., and India than from other economies

Question: Overall, do you think the Canadian government is allowing too much, too little, or about the right amount of foreign direct investment into the Canadian high-tech sector from each of the following economies?

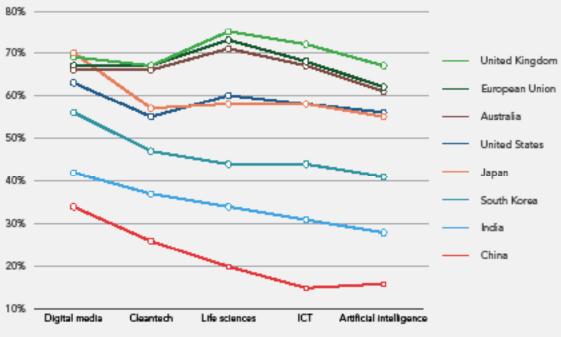
#### Canadians show pan-sector support for investment from Australia and Japan; attitudes toward different subsectors very substantially for China and India.

Regarding support for having more FOI in the five selected high-tech subsectors, digital media, cleantech, and life sciences overall receive more support than ICT and AL.

Specifically, for all subsectors, the U.K., the EU, and Australia tend to receive majority (over 60%) support, especially in life sciences with over 70% support. Japan and the U.S. follow with support rates between SS% and 60% for most subsectors. Notably, Japanese investment in digital media receives great majority support at 70%. Support for South Korea, India, and China spans a low of 15% for Chinase investment in ICT to a high of S6% for Korean investment in digital media.

Strong variations exist in attitudes toward FDI in different sectors for China and India. The support for Chinase investment drops from 34% in digital media to 16% and 15% in Al and 10T, respectively, while India's support rate drops from 42% in digital media to 28% in Al.

Base: All respondents (n=1,506)



Support for high-tech subsectors and source countries

Base: All respondents (n=1,506)

Question: If the Canadian government were to attract more direct investment into each of the following high-tech sectors, please choose from the list below countries that you would support the Canadian government allowing more investment from.

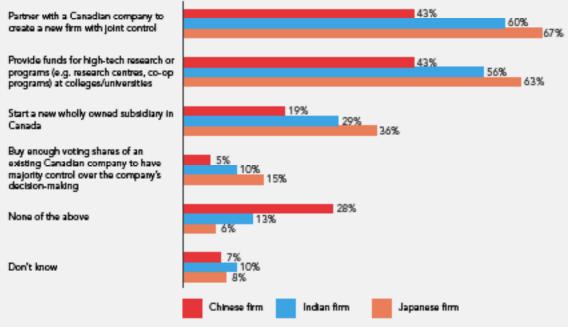
#### Joint ventures or university research/education funding are the most favourable channels of technology-oriented Asian FDI.

Regardless of the source countries of an investment, Canadians are must comfortable with high-tech FDI through joint ventures with a Canadian firm (with support of 67%, 60%, and 43% for Japan, India, and China, respectively), or funding high-tech research or programs in higher education institutes (with support of 63%, 56%, and 43% for the three countries, respectively).

Greenfield investments – i.e. starting a new wholly-owned subsidiary in Canada – receive a modest level of support of 36% for Japan, 29% for India, and 19% for Chine. And company buyout receives the least support, ranging from 5% to 15% for the three countries.

Twenty-eight percent of Canadians say they would support none of the above modes of investment from a Chinese firm, as opposed to 13% for India and 6% for Japan.

#### Joint ventures and research funds are the most welcomed investment modes in the high-tech sector



Base: All respondents (n=1,506)

Question: If the following companies were to invest in Canada's high-tech sector, please choose from the list below the modes of investment that you would support. Please choose all that apply.

# EXPLAINING PUBLIC SENTIMENT

To better understand the driving forces behind public opinion, in this section we discoundly effects of the confronding factors discussed earlier and examine what factors are most influential on public sentiment toward instard high-tech-oriented FDI. To do so, we implemented a conjoint survey experiment<sup>1</sup> to analyze how Canadians take into account different factors when evaluating an investment project. The factors assessed here are country of origin, mode of investment, high-tech subsector, ownership structure, and putcome.

In this experiment, respondents were asked to review three hypothetical FDI projects, randomly selected from 108 scenarios. These scenarios present different combinations of attributes related to the five factors – mode of investment (set up a wholly owned subsidiary in Canada; acquire a Canadian firm), high-tech subsector (the telecommunications sector; the animation sector; the cleantech sector), connership structure (state-owned enterprise; privately owned enterprise), country (China; Japan; the U.S.), and outcome (has passed the national security review by the Canadian government; is estimated to create a significant number of jobs for the local community; none). Notably, in the second attribute, we assess whether providing information on potential outcomes of a project – i.e. the national security review results or job creation – is associated with public perceptions.

These scenarios were presented to respondents using the following vignette template.

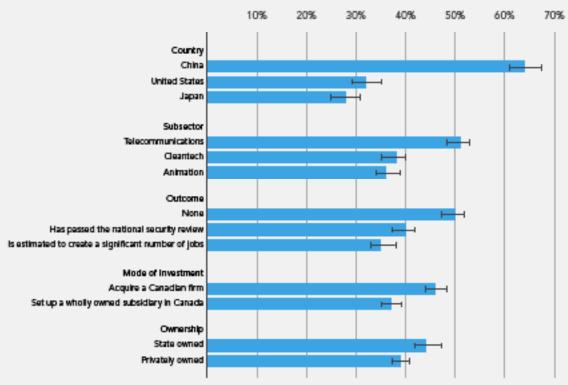
Company A/B/C is attempting to [mode of investment] in [high-toch subsector]. This company is a [avmawhip structure] based in [country]. This investment project [automs].

Respondents were then asked in rate each project – support, oppose, or don't know. The 108 projects received a total of 4,518 ratings from the respondents.

Across the board, these hypothetical projects received 44% of the votes in support, 42% in opposition, and 14% don't knows. In order words, overall, the probability of a project being opposed is about 42%, compared with 58% for non-opposition. To understand what is driving public skepticism of Asian investment in the high-tech sector, we performed statistical modeling to predict the probability of a hypothetical project being opposed based on each specific attribute. The overall results are presented in the following chart. Separate charts for different factors are also presented.

<sup>1</sup> "Empiriet anxwy superiment" is a statistical technique to determine what factors are cost influential on respondent choice or decision-coaling. The implicit impact of a factor is determined by secondoing how people make choices or performance interven hypothetical scenarios/people in with a combination of different factors of manuels interest.

Predicted probability of an investment project being opposed

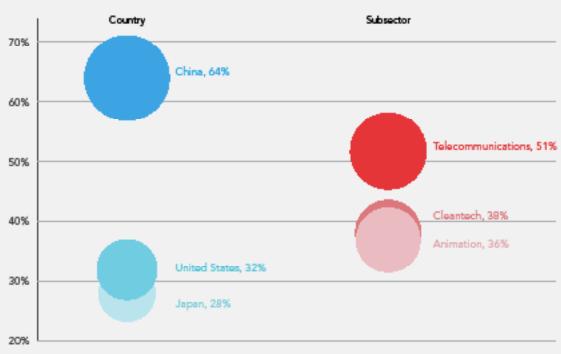


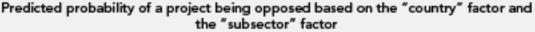
Note: The probabilities are calculated based on statistical modelling results. Bars indicate predicted probability of being opposed for a project with each attribute; lines indicate we are 95% confident that the prediction falls within the range of values indicated.

#### "Chine" and "telecommunications" are driving the skepticism about FDI in Canada's high-tech sector.

The highest probability of a project being opposed is when the investor is from China (64%), followed by when the investment is in telecommunications (51%). The high profile of the Hugwei case and the controversies it aroused around SC and telecommunications security could have contributed to the sentiment. Among all factors, the source country exerts the strongest effect – Chinase investment is 36 percentage points more likely to be opposed than Japanese investment, and 32 percentage points more than U.S. investment.

The subsector also shows significant impact on respondents' assessments, although the effect is weaker than the country factor. The probability of opposition to a project in the telecommunications sector (S1%) is substantially higher than one in animation (36%) or one in cleantech (38%). The gap between telecommunications and the other two subsectors is even more pronounced for Chinese investment, with that gap rising to 20 percentage points.





Note: The probabilities are calculated based on statistical modelling results, controlling for the effects of other factors.

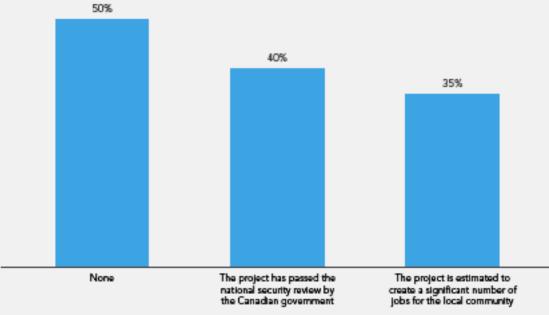
### Access to information on patential outcomes shapes public opinion on FDI in Canada's high-tech sector.

Another important factor that influences public opinion is access to information on a project regarding national security review and job creation. The probability of opposition to a project drops substantially from SO% when no information is available to 40% when the message was given that the project passed the national security review, and further drows to 35% when the message states that the project is believed to lead to significant job.

creation. With telecommunications, the probability drops from 61% (no information) to 48% (passed security review) and 43% (potential jub creation). Interestingly, in all cases, the message about jub creation carries alightly more weight than that about the national security review, with a five-point difference.

The information effect is especially strong for China – the probability of a Chinese project being opposed dropped by 13 percentage points when respondents were told that it passed the national security review, and by 14 percentage points when they were told it is believed to create a significant number of jobs.

These results imply that information that addresses public concerns around potential outcomes of a project – e.g. national security and economic benefits – is conducive to correcting misperceptions and abaping well-informed public opinion, especially in a sensitive sector like telecommunications and for less favoured economies.



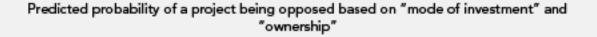
Predicted probability of a project being opposed based on the "outcome" factor

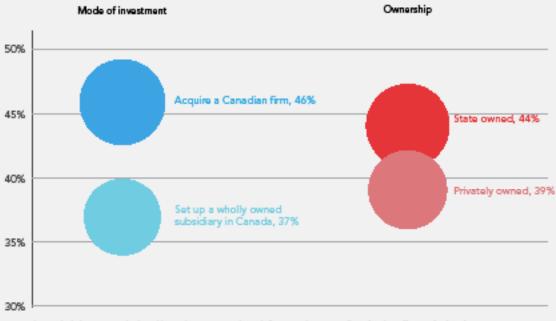
Note: The probabilities are calculated based on statistical modelling results, controlling for the effects of other factors.

### Mode of investment and ownership structure of the investing entity contribute less to public opinion compared with other factors.

In comparison, mode of investment (greenfield versus brownfield) and ownership structure of the investor (state owned versus privately owned) are minor factors influencing public attitudes toward FDI in the high-tech sector. Overall, a brownfield project is nine percentage points more likely to be opposed then a greenfield project, and investment by a state-owned enterprise (SOE) is five points more likely to be disapproved.

Interestingly, the marginal effects of these two factors are smaller for Chinese investment, althrough both are statistically significant. People are six percentage points more likely to oppose comparing a brownfield investment (i.e. company buyout in this study) against a greenfield investment, and comparing an SOE investment against a private investment. These results suggest that private investment does not help much in alloviating public altepticism against Chinese investment, which is more rooted in concerns around national security and economic outcomes.





Note: The probabilities are calculated based on statistical modelling results, controlling for the effects of other factors.

### Canadians associate tech-oriented FDI from different economies with different benefits and risks.

To probe further on perceptions of FDI from different source countries, we asked respondents what the greatest henefits and the greatest risks they think are associated with having more high-tech-oriented FDI from China, Japan, India, and the U.S., respectively.

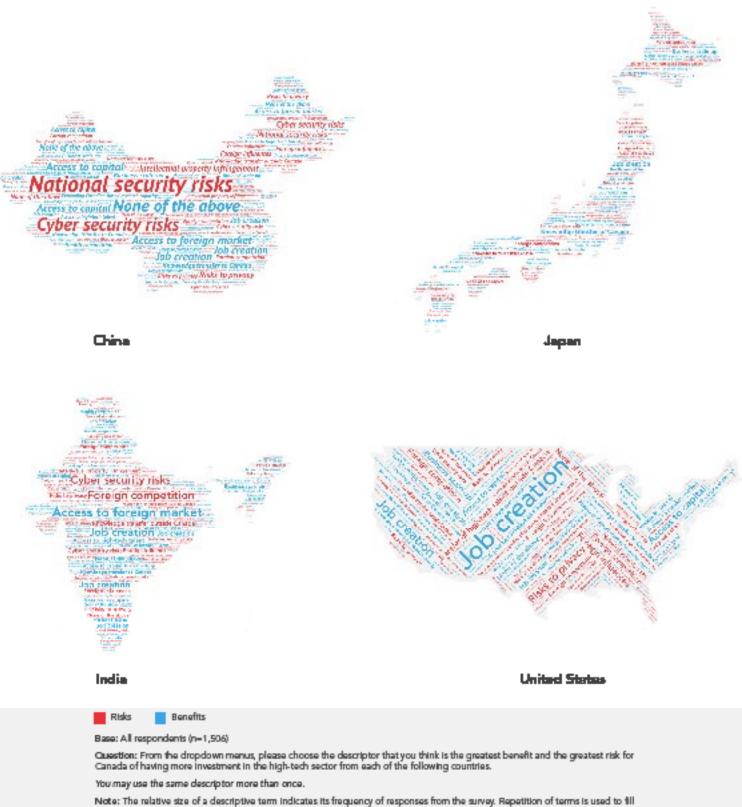
Canadians believe that Chinese investment is most likely to benefit Canada in economic terms. The top three benefits associated with Chinese investment are "access to foreign markets for Canadian businesses" (16%), "access to capital for Canadian high-tech businesses" (15%), and "job creation" (15%). A higher percentage (18%) of respondents also says "none of the above," compared with the other countries. The biggest concerns about Chinese investment stem from "risks to national security" (31%), "risks to cyber security" (20%), and "intellectual property infringement" (12%).

Benefits associated with Japanese investment are often perceived to be about knowledge and talent transfer – the top three descriptors for perceived benefits are "transfer of new technologies and knowledge into Canada" (26%), "access to high-tech talent for Canadian high-tech businesses" (13%), and "jub creation" (12%). Risks are most likely to be increased competition for Canadian domestic firms (26%), followed by the transfer of technology/knowledge (12%) and high-tech talent (12%) outside Canada.

Regarding Indian investment, access to foreign markets (19%), job creation (15%), and access to high-tech talent (11%) are the most highly expected benefits, while perceived risks are more likely to involve foreign competition for domestic businesses (15%), cyber security (14%), and the transfer of technology/knowledge outside Canada (12%).

Banafits from U.S. investment in the high-tech sector is most likely to be job creation (20%), access to capital (17%), and the transfer of new technologies and knowledge (12%) into Canada. However, people are concerned that having more U.S. investment may drive high-tech telent outside Canada (20%), increase foreign competition for domestic firms (17%), and introduce foreign influences on Canadam values (15%).

### Perceived benefits and risks of high-tech-oriented FDI from...



Note: The relative size of a descriptive term indicates its frequency of responses from the survey. Repetition of terms is used to fill the map and not associated with actual responses. Blue indicates the greatest benefit; red indicates the greatest risk. Percentages of "Don't know" not shown.

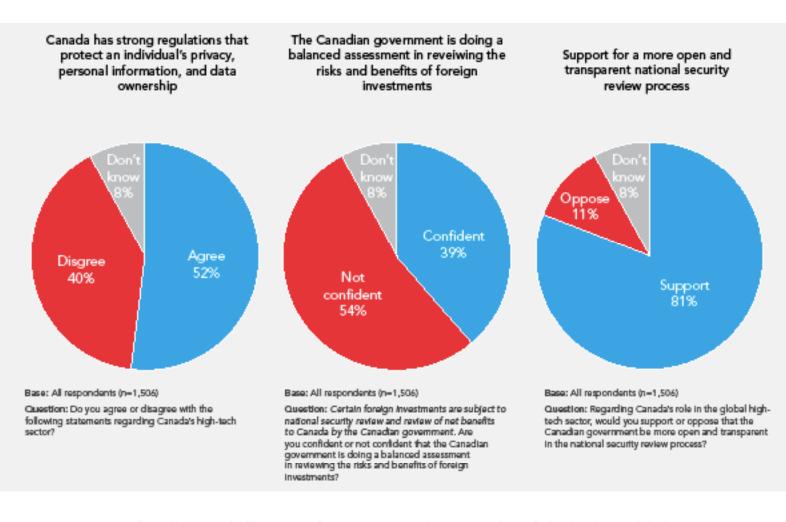
# **ROLE OF GOVERNMENT**

Canadiana believe Canada has strong regulations on data and privacy protection but are not confident that the government is doing a balanced review of the risks and banefits of foreign investments.

Canadians in general trust the domestic regulatory framework for protecting data security. About helf of Canadians agree that "Canada has strong regulations that protect an individual's privacy, personal information, and data comership," as opposed to 40% who disagree.

However, when it comes to national security reviews and net-bandits assuances that apply to certain FDI projects,<sup>2</sup> 54% of Canadians say they are not confident that "the government is doing a balanced assuancent in reviewing the risks and bandits of foreign investments," in contrast with 39% who say they are confident. As such, there is strong support for a more open and transparent process of national security review with 81% in support. This echoes previous findings and points to the importance of accessible and transparent information on foreign investments.

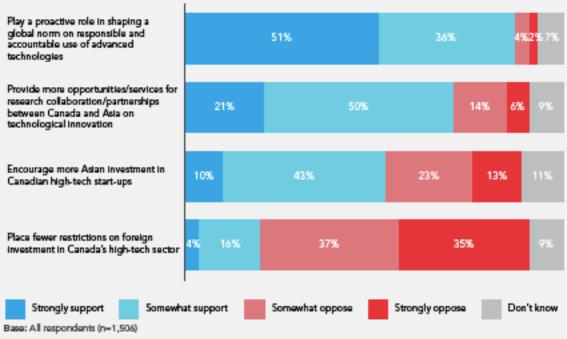
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### Canadians would like to see the government play a proactive role in shaping a global norm on technology use while deepening angagement with Asia in the high-tech sector.

Regarding public policy about engagement with the world in the high-tech sector, the overwhelming majority of Canadians think the government abould "play a practive rule in shaping a global norm on responsible and accountable use of advanced technologies" (87% support). The great majority (72%) would also oppose the government relaxing restrictions on FDI in the high-tech sector.

When it comes to engagement with Asia, most Canadians would support policies to "provide more opportunities or services" for innovation research partnerships between Canada and Asia (71% support). A smaller share, yet still over half (53%), would support the government if it were to "encourage more Asian investment into Canadian high-tech start-ups."



Canadian views on public policy for the high-tech sector

Question: Regarding Canada's role in the global high-tech sector, would you support or oppose the Canadian government if it were to...

# **REGIONAL DIFFERENCES**

Although Canadian opinims show more convergences than divergences over Asian investment in Canada's high-tech sector, some variances exist among the provinces/ regions. This section highlights regional differences that are worth noting.

For the purpose of regional analysis and in view of the sample size, some provinces/ territories were collapsed into one region, resulting in the following provinces/regions:

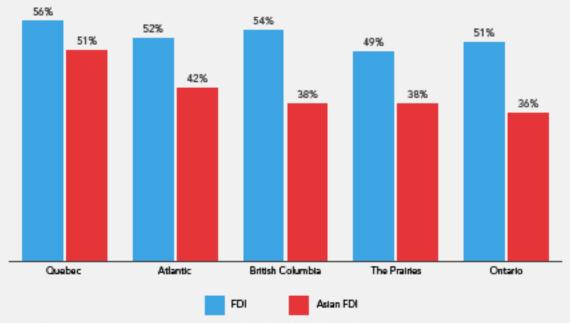
- British Columbia
- The Prairies Alberta, Saskatchewan, and Manitoba
- Ontario
- Quebec
- Atlantic New Brunswick, Prince Edward Island, Nova Scotia, and NewFoundland, and Labrador

Northern Canada (Yukon, Northwest Territories, and Nunevut) had only four respondents; therefore, they were removed from the analysis.

### Quebecers are the most open to more high-tech-oriented FDI from Asia.

While all provinces/regimes see a drop in support for having more Asian FDI as opposed to general FDI in the high-tech sector, Quelec stands out with the highest support rate (51%), indicating the relative openness of this region compared with the rest of the country.

Quebec most supportive of Asian FDI in high-tech



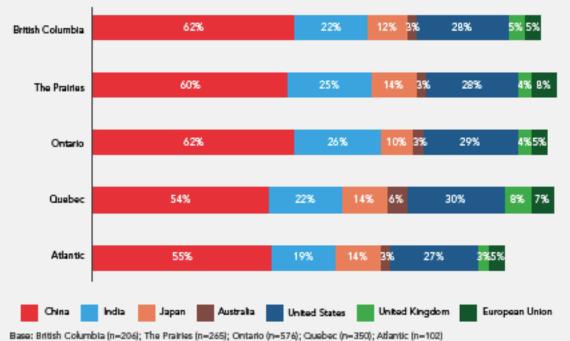
Base: Subgroup 1 FDI – Quebec (n=182); Atlantic (n=46); British Columbia (n=91); The Prairies (n=119); Ontario (n=208) Subgroup 2 Asian FDI – Quebec (n=169); Atlantic (n=55); British Columbia (n=114); The Prairies (n=146); Ontario (n=268)

Question: Subgroup 1: Generally speaking, would you support or oppose the Canadian government allowing more foreign direct investment into the following sectors?

Subgroup 2: Generally speaking, would you support or oppose the Canadian government allowing more foreign direct investment. from Asian economies (e.g. Japan, South Korea, India, China) into the following sectors?

Considering the significant "China" impact on public opinion toward Asian investment in this pull, the more positive views of Quebecers toward Asian FDI could be because of their less negative views of Chinase investment – Quebecers are less likely than non-Quebecers to perceive "too much" high-tech investment from China (54% versus the national average of 59%) and less likely to associate Chinase investment with national security risks (22% versus 31% at the national level).

# Percent agree that the Canadian government is allowing too much FDI in the high-tech sector from...



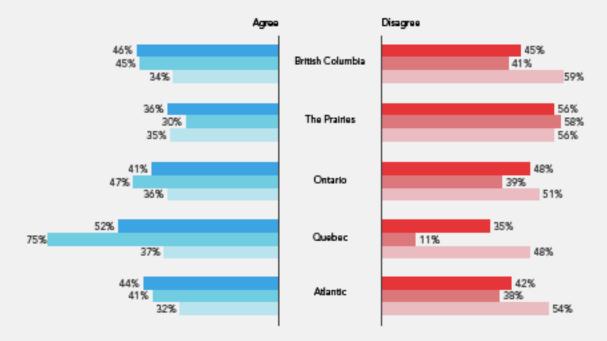
Question: Do you think the Canadian government is allowing too much, too little, or about the right amount of foreign direct investment to the Canadian high-tech sector from each of the following economies?

# Regions divide on attitudes toward the roles of Canada and Asia in the high-tech sphere.

Across the country, Quebec is the most positive about Canada's leading role in technology and innovation (52% agree) and the significance of technology in driving the Canadian economy (75% agree), whereas the Prairies reflect the strongest opposition, with 56% (Canada's role) and 58% (economic driver) in disagreement.

The strongest skepticism about benefits associated with inbound Asian high-tech investment comes from the Prairies and British Columbia where 56% and 59% of the population, respectively, oppose the statement that "the potential benefits of having more Asian investment in the Canadian high-tech sector outweigh the potential risks." In contrast, Quebec sees the least opposition (48% disagree) to this statement.

### Regional views on global technology and innovation



Base: British Columbia (n=206); The Prairies (n=265); Ontario (n=576); Quebec (n=350); Atlantic (n=102)

Question: Do you agree or disagree with the following statements regarding Canada's high-tech sector?

Canada is a world leader in tachnology and innovation.

Canada's high-tech sector is driving the growth of the Canadian economy.

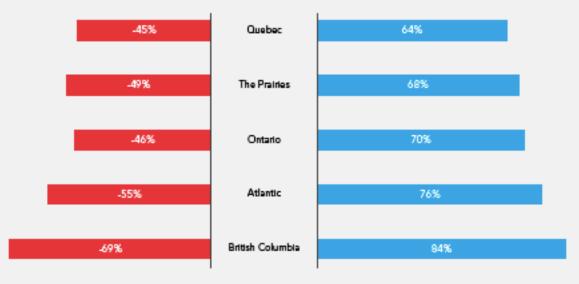
Overall, the potential benefits of having more Asian investment in the Canadian high-tech sector outweigh the potential risks.

Note: Percentages of "Don't know" not shown

### British Columbia is more likely to oppose sesing restrictions on high-tech-oriented FDI and to support more transparency in national security reviews.

Among the regions, British Columbia has the strongest opinions in opposing more related FDI restrictions (13% support, 82% oppose) and in supporting more transparency in the process of national security review (90% support, 6% oppose); Quebec, in comparison, holds the least strong opinions in these regards, with the smallest gaps between the support versus oppose groups for easing high-tech FDI restrictions (45 points) and for more transparent national security reviews (64 points). This is in fine with the more positive views Quebecers have toward the potential benefits of Asian investment than British Columbians.

### Differences (% points) between support vs oppose on more restrictions on high-tech oriented FDI and more transparent national security reviews



Place fewer restrictions on foreign investment into Canada's high-tech sector

Be more open and transparent in the national security review process

Base: British Columbia (n=206); The Prairies (n=265); Ontario (n=576); Quebec (n=350); Atlantic (n=102)

Question: Regarding Canada's role in the global high-tech sector, would you support or oppose the Canadian government if it were to...

# CONCLUSION

As a proverbouse of technology and innovation and a vast source of capital, Asia has the potential to play a vital rule in Canada's future. Canadians, however, remain cantious about engagement with Asia in the high-tech sector, the core economic driver of tomorrow. This is the key takesway from APF Canada's 2019 National Opinian Pell: Canadian Views on High-Tach Investment from Aste.

As Canadians' anxiety toward China over the Huawei affair Ingers, it is not surprising that this poll picks up on a sense of alcepticism about Asian investment in Canada's high-tech sector, particularly with regard to both Chinase investment and the telecommunications sector. This, however, does not undermine the importance of Asia to Canada's investment diversification – there is a brand consensus that Asia will drive future technological advancement and become more important than the U.S. as a source of capital for Canadian tech business in the foreseeable future. The poll also reveals that there is a strong public desire to deepen engagement with Asia, including China, in incovation research and education. Several implications can be drawn from the results.

First, overall public sentiment toward Asian FDI in Canada's high-tech sector is impeded by the current beightened negativity toward China and as well as sensitivity around the telecommunications sector more generally. <u>Recent surveys</u> have shown a significant drop in Canadian warmth of feeling toward China over the past 16 months. Our analysis further demonstrates that the "China" factor and the "telecommunications" factor are the strongest in explaining public opposition toward FDI in the high-tech sector.

Second, angegement with different countries in technology needs to take into account different risk factors as public concerns vary with different countries. Traditional, likeminded allies like Australia and Japan are the must favoured sources of investment in Canadian high-tech. Concerns associated with high-tech-oriented FDI from these countries are more likely to be "increased foreign competition with domestic firms" and "the transfer of talent or know-how outside Canada." Chine and India are less favoured source countries as they are often associated with risks to national security (China) or cyber security (China, India).

Third, a sector-wise approach for engagement prioritizing less sensitive subsectors may be preferred, especially for countries for which public sentiment is less positive. Digital media, life sciences, and cleantech are the most favoured areas for Asian FDI, while KT and AI are the least favoured. The between-sector gaps are more evident for Chine and India then for Australia, Japan, and South Korea.

Fourth, high-tech research and education boasts great potential for deepened investment relationships with Asia. Asian funding to university high-tech research or education programs receives widespread public support, and so do public policies to support such research collaboration/pertnerships.

Finally, Canadian skepticism about Asian investment into the high-tech sector also reflects a sense of public distrust in the government as a gatekeeper of incoming investment able to safeguard Canadian interests. The public overall is not confident in the government's risks and banefits assessments of FDI projects. Indeed, Canadians would support a more transparent national security review process. Our analysis indicates that this might well include providing transparent information that adequately addresses public concerns about a specific project as a means of mitigating public skepticism.

In conclusion, this poll reveals the complexity and numbers underlying public skepticism toward Asian high-tech FDI in Canada. Our findings suggest that engagement with Asia in technology and innovation warrants a well-crafted agends with a differentiated approach to individual economies and subsectors, as well as a transparent domestic regulatory corrigonment to mitigate public concerns and skepticism.

# METHODOLOGY

APF Canada commissioned EKOS Research Associates to conduct a survey of 1,506 Canadian adults (permanent residents and citizens 18 years and older). The survey was conducted from February 4 to February 15, 2019, using EKOS's research panel, Probit. This panel offers coverage of the Canadian population accessible through internet, phone or cellphone. A random, stratified sample for this study was drawn from the panel database using random digit diaffing. All data was collected online.

Considering potential inconsistent understandings of FDI and "high-tech sector" due to the complexity of the two concepts, before the survey questions we provided broad definitions of the two terms that are aligned with our understanding. The definitions are as follows:

"Helew we would like to have your opinions about fontign direct investment into Canada. Foreign direct investment (FDI) in Canada is defined as a long-term or leating-interast investment that allows an investor (i.e. a person or an entity) of another economy to have a significant degree of influence in the management of an enterprise in Canada. "Bynificant degree of influence" usually means sumawhip of 10 per cent or more of the ordinary shares or using persor or the equivalent of an enterprise."

"Below we would like to ask your opinions on foreign direct investment in the Canadian high-tech rector. The high-tech rector encompasses industries that have high concentrations of employers in STEM (science, technology, orginaering, and mathematics). Examples of the high-tech sector include, but are not dimited to, information and communication technology, artificial intelligence, life sciences, cleantech, digited mode, aerospace manufacturing, and scientific research and development."

The margin of error – which measures sampling variability – is +/- 2.53% for the entire sample. The errorage completion time for the survey was 10 minutes. The results have been statistically weighted by EKOS according to the current census data on age, gender, and region to ensure the representativeness of the sample. Discrepancies in or between totals are due to rounding.

# ACKNOWLEDGEMENTS

### Strategic Advisor

### Dr. Jeffrey Roeves

Vice Prasident, Ramarch Asie Pacific Roundation of Canada

### Land Researcher

### Dr. Yushu Zhu

Program Managor Aste Pacific Roundation of Canada

### Editorial Review

### Dr. Charles Labracque

Research Manager Asie Pacific Foundation of Canada

### Micheel Roberts

Communications Menager Asia Pacific Roundation of Canada

### Communications

### Micheel Roberts

Communications Menager Aste Pacific Roundation of Canada

### Nathalia Green

Social Modie and Communications Specialist Asia Pacific Foundation of Canada

### **Creative Design**

### Servya Arora

Graphic Designar Asie Pacific Foundation of Canada

### Advisory Panel

### Dr. Paul Evens

Professor of Political Science The University of British Cohembia

### Dr. Margaret McCuaig-Johnston

Senier Pallow, Institute of Science, Society and Policy, University of Ottawa Senier Pallow, China Institute, University of Alberta Distinguished Pollow, Asia Pacific Foundation of Canada

### Dr. Deniel Sever

Visiting Prefessor, School of Public Policy, Simon Prasar University Distinguished Policy, Asia Pacific Foundation of Canada

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2019 NATIONAL OPINION POLL

# CANADIAN VIEWS ON HUMAN CAPITAL FROM ASIA

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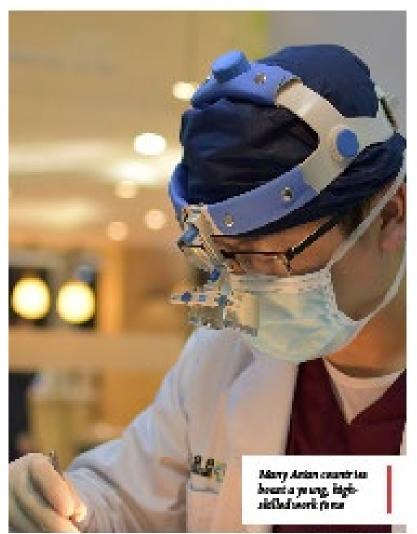
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## KEY TAKEAWAYS FROM THE POLL

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# PERCEPTIONS OF THE HIGH-SKILLED TALENT MARKET

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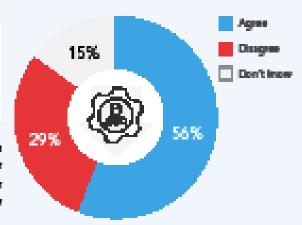
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### 2048.011

Cuention: Do you agree or disagree with the following statement about international talent - Ashortage of high-skilled workers is becoming a determent to Canachin competitiveness in the global eccentry. Some n=1,524.

Most Canadians believe that a shortage of high-skilled workers in becoming a deterrent to Canada's competitiveness in the global economy



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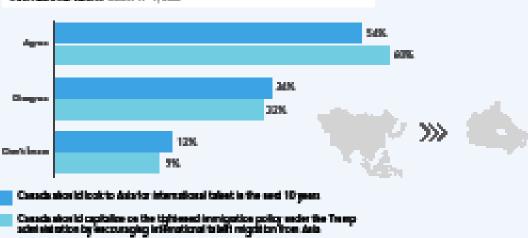
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### eletter R

### Opinions on immigration of international talent from Asia



Over i on: Do you agree or disagree with the following statements about international talent. Rose:  $n{-}1,521$ 

# FEELINGS TOWARD HIGH-SKILLED TALENT FROM ASIA

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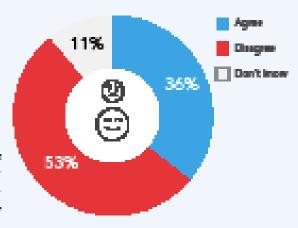
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Constitute: Do you agree or disagree with the following statement about international talent - Overall, potential concerns of having more international talent from Asia join the Canadian workforce outweigh the potential benefits. Rank: p=1.524.

Potential benefits of having more international talent from Asia join the Canadian work force outweigh the potential concerns



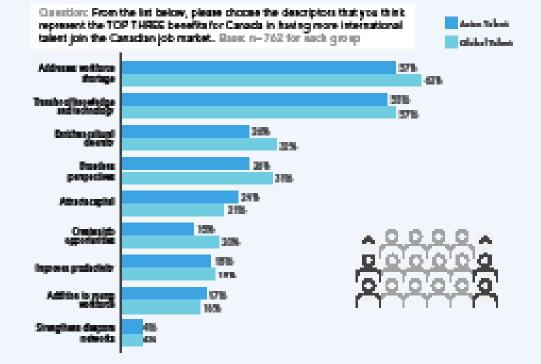
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### FIGURE 4.

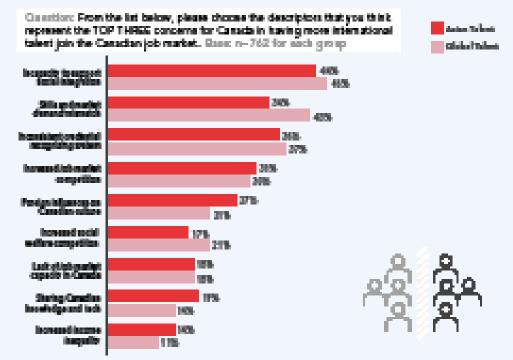
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### FIGURE 5



Peneired concerns for Canada in having more international talent

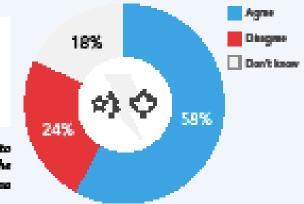
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### 2020.025

Cuention: Do you agree or diagree with the following statement about international talent - Canadians have become less receptive to international talent from China amid the current tension between Canada and China. Root: n=1,524.

Canadians have become less receptive to international talent from China amid the current tension between Canada and China



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### FIGURE 7

Canadians' views on the immigration of different groups of workers, by country of origin



Calentician: Which groups of potential workers in each country/region would you accept Caracte having more of? Rese: = -1,524.



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# CRITERIA FOR THE RECRUITMENT OF INTERNATIONAL HIGH-SKILLED TALENT

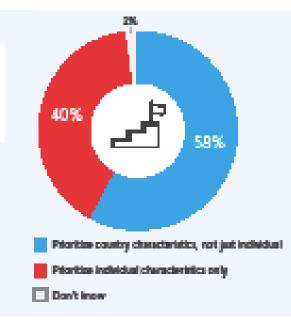
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#### 2058.541

Currentice: Thinking about Canada's immigration policy regarding international talent, do you think Canada should prioritize talent from countries with the following characteristics? Base: n=1,524

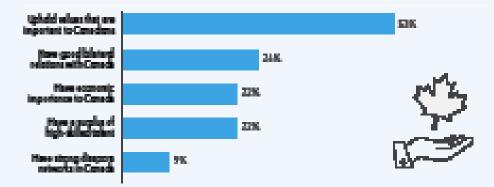
Mixed opinions on priorities for immigration policy when recruiting international talent



#### FIGURE #

#### Source country characteristics that Canada should prioritize for international talent migration policy

Calentition: Thinking about Canado's immigration policy regarding international talent, do you think Canada should prioritize talent from countries with the tokowing characteristics? Exerc n=69?



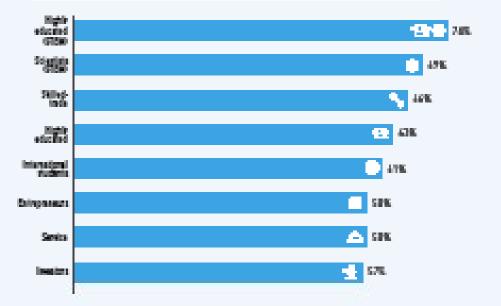
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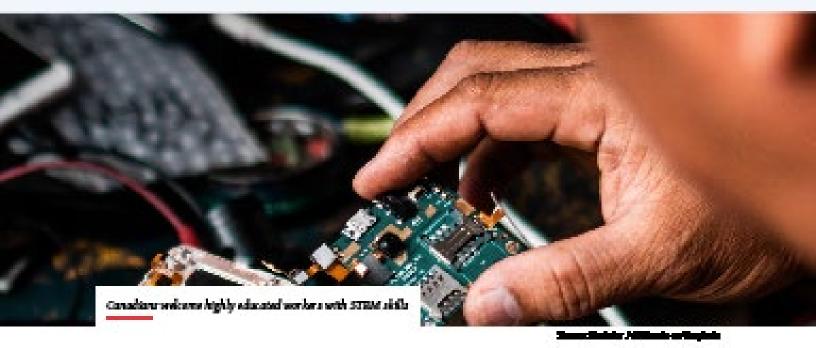
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#### FIGURE 10

Preferred fields of migrating international talent

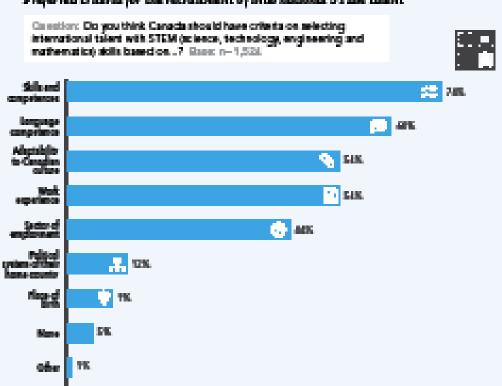
Calentian: Which groups of potential workers in each country/region would you accept Canada having more of?  ${\rm Gauss}: n{-}1,524.$ 





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#### FIGURE 11



Preferred criteria for the recruitment of international STEM talent

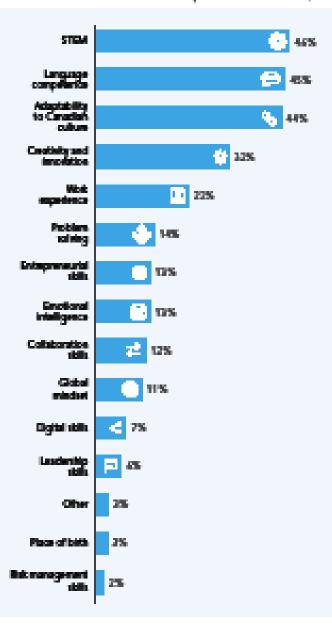
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#### FIGURE 12

Considian views on qualities and skills the government should prioritize when socking international talent

Constitut: Which of the following qualities/fit is in workers should the government of Canada give the highest priority when seeking international talent to join the Canadas workforce? Please choose up to THREE. But n=1,524



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# IMMIGRATION AND PUBLIC POLICY

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#### FIGURE 13

Support for public policies geared toward attracting and retaining international talent from Asia



Constitute: Woold you support or oppose the following public policies to attact or retain international talent from Aab? Basic =-1,524

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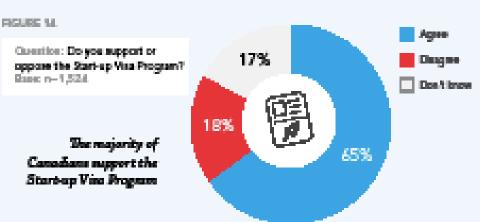
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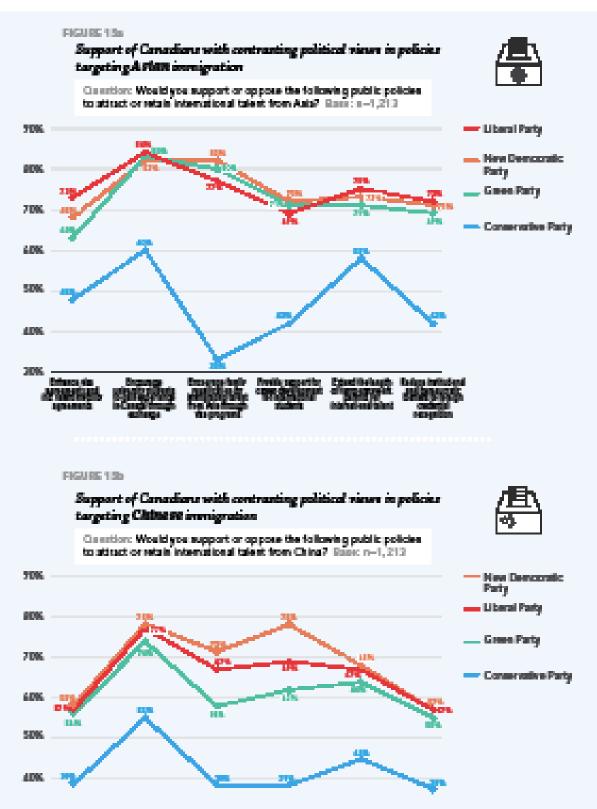
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# METHODOLOGY

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# ACKNOWLEDGEMENTS

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FONDATION ABLE PACIFIQUE DU CANADA ASIA PACIFIC POLINDATION OF CANADA

FONDATION ASIE PACIFIQUE DU CANADA

# CHINA'S EVOLVING SENIOR CARE SECTOR

OPPORTUNITIES AND CHALLENGES FOR CANADIAN CARE PROVIDERS AND BUSINESSES

FEBRUARY 2020

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# ABOUT THE ASIA PACIFIC FOUNDATION OF CANADA

he Asia Pacific Foundation of Canada (APF Canada) is a not-forpenfit organization focused on Canada's relations with Asia. Our mission is to be Canada's catalyst for engagement with Asia and Asia's bridge to Canada. APF Canada is dedicated to strengthening ties between Canada and Asia with a focus on seven thematic areas: trade and investment, surveys and polling, regional security, digital technologies, domestic networks, sustainable development, and Asia Competency

Our research provides high-quality, relevant, and timely information, insights, and perspectives on Canada-Asia relations. Providing policy considerations and business intelligence for stakeholders across the Asia Pacific, our work includes Reports, Policy Briefs, Case Studies, Dispatches, and a regular Asia Watch newsletter that together support these thematic areas.

APF Canada also works with business, government, and academic stakeholders to provide custom research, data, briefings and Asia Competency training for Canadian organizations. Consulting services are available by request. We would be pleased to work with you to meet your research and business intelligence needs.

Visit APP Canada at <u>www.asiapacific.co</u>.

## EXECUTIVE SUMMARY

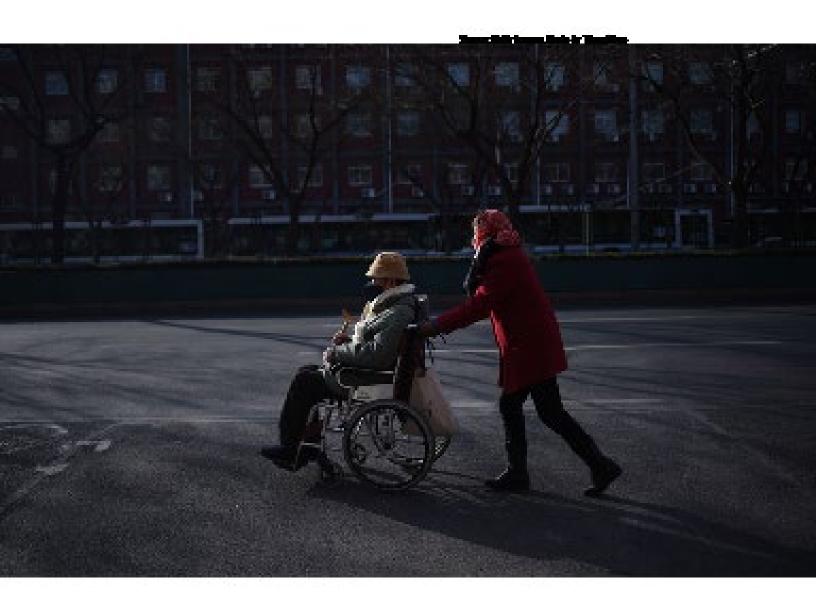
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# INTRODUCTION

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# Report Outline and Methodology

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# CHINA'S SENIOR CARE STRATEGY

By You' Research, Part Graduate General's Scholar, APF Causda

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# Promotion of Privets and Forsign Investment

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### China's Serier Care Policy (The 9073 Plan)

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#### SENIOR CARE FACILITIES

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# SUBSECTORS IN CHINKS SENIOR CARE SECTOR

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### Smart Technology Senior Care

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#### PATENT CARE

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#### CASE STUDY #1 OPPORTUNITIES IN HOME CARE AND SMART CARE: THE CASE OF BUURTZORG

The Chinese government is efforts to promote the energence of local rapacity does not preclude the opportunities for foreign companies to anter into this space. The reseat head way of a Datch company Proximag, into Chinal smart tech senior commanies in a case is point. With 10,000 employees, Paratimog provides commanies y naming services in the Netherlands and across the globe, including in China, Japan, and Taleva.

Paratizeng's approach-to case-meanly disa with the senior case-module-excisioned by the Chinase government cost-effective, community-based senior care run b proce-government actors and backed by IT plantame compyont-these services. Furnitury, incode consists of small, deresterilized tense of 10-to 10 mores who are granted the autonomy-to-incomes and adjust their practices to themsels of local people. These conserptionally serve as beaks makes, emphasizing preventive beaks care. To achieve these goals, Pearstong relies on the OBARTA IT platform for manues, which enables documentation, analysis, and assessment of patients' meets and the contrasts of method interventions." In China, Pearstong partners with the existent comparise that port decommunity services to and assessment of patients' meets and the contrasts of method interventions. "In China, Pearstong partners with the existent comparise that port decommunity services to antisent to reactions across the country, including Stanghat, Sechere, and Qingdoo."



Source Geto Ineges Photo to April The odd

Canada has one company like Functions, finite Elitabeth Health (SI Health) has provided house-care netwices, semitor care staff insisting, and senior care dufficies operation services for more than 100 years. Like Functions, it is a non-peak organization that is summarinly generating researce. In means years, SI Health has made program in integrating technology into its practice and has also started to explore business apportanistics about a second fly SI Health established Saint Elimbeth Global to softway seek in establish consoliting produces, joint neutrates, or means and end started to protect the second in granization about the organization about "Because the Chinese government intends to protect house Using for RNK of section, and because the establishment of a smart care system intermediation abound. Canada has a number of innovative companies with specification in these uses, scene of which participated in the 2019 Women-Oraly Business Mantonio Japan that for some of which participated in the 2019 Women-Oraly Business Mantonio Japan that for some of which participated in the 2019 Women-Oraly Business Mantonio Japan that for some of which participated in the 2019 Women-Oraly Business Mantonio Japan that for some of which participated in the 2019 Women-Oraly Business Mantonio Japan that for some of which participated in the 2019 Women-Oraly Business Mantonio Japan that for some of which participated in the 2019 Women-Oraly Business Mantonio Japan that for some specific startes and that for the some of the section of the section of the formation of the formation of the section of the formation of the section of the formation of the section of the section of the section of the formation of the section of the formation of the section of the

## Assistive Devices for Senior Populations with Disabilities

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## Specialized Madical Services for Senior Citizens

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#### CHIRCHNE DEEKSE MANA-SEMENT

مند بالخدد والعمار باستقراده سارخصه معاذكمة المتحديث تحصير أدمامة المتطلب عبالا أمرك بمستلا يتحدك معت in addition of a second strength of the second s and an and a finance, this is a single of sources, any interest of the source, مقاطة فسيرة بلغاك فأنبه سيبعد بأتادها أستناذ أتعالب وبالمتغاد لمعادمته تعمانه فالاستهمية عندة Internet with the first of the second state of to have study that a particular care service, to have denote these الخذائه بالحدد عادي مخط بالمتحدا "عيمة له من بتحديد all principana della in a tra positiva in la sua segundo de doincluing and at straight sector of the state of the sector is the sector of the sector inite y haspitals." These 2016, the update in a factor is inglicent the ومنبعة واست الاستحصيرة وشياد متحجك الكركان والمرغان بالته ونصالح تدريا والمستركان ومنجود الأسباحان تعراك من والمستحصين density the state is a support of the second statement paints: Pailly incomes place will be some incomes of a specific diseas, where they wanted providence, which will be use the inner the second second second second second second second and and the second process of the second والمستحد والخصب والماعات والمسط والماعتين والمستحي ويستك متاسب المعرومي فاعتند مهير والمالي والمراجع Berne patients.

tes dana pakén Tanéné Tanta. Pert, canéhang dia injerandarat patané paréndip lantar — rano dan 1,000 — dia silikipat dana dantan in dalam panasikasi serian terpita Tantal. Kenad, arawat paditai dantan an atil malang atilakan ing Kenglish, 21 ka lana-dalami sa sina terjeyaity įlętina ir azona tadų ietas sido sumaty ieti<sup>m</sup>itėl. do alpeinai alternas prysais tao pagas ieti sieko sumi to itgenitosiai gauptie grių toito ieto tomoglik, art all apie takų diensta anes alterno iet pilk lagtis.

#### CASE STUDY #2 CHRONIC DISEASE MANAGEMENT IN CHINA: THE CASE OF CANADA WELLNESS INSTITUTE

Canada Weiness institute (CWI), a Cruzdian non-profit instituterus by Seven Oxia Hospital in Wantipeg, has benefited from the gaps in chronic disease instituent newtras in China. In 2015, CWI established — in partmentip with a local barpital and a private company, Mars Health — China's finit medical diseast facility in Rinko, Shandoog<sup>11</sup> Reambly a new, high-end fashing was opened in Beijing to service the top incrute groups in the sky. Fells wing social desires the Chinese government, CWI have an arabidous plan to broaden the openations in China and establish 100 new medical diseast holideenic different location another reastry.<sup>16</sup>

CWI offers personal and programs for profession with throats disease, notify diabeter, cancer, cardiomacular disease, hidrosydisease, and lang disease. The program includes one-co-meconenication, phrasempport, workshops, exercise programs, and educational workshops. CWI size-targets choose disease pre-motion by carding seniors on here to matrix in healthy lifestyles and offering special and smalling reaction and weight loss programs.<sup>10</sup> CWI interespite that these programs draw on best practices and separate that are embedded in the district procedums and nearests energing from one of Canadals Intelling heapting, Server Date.

A bey factor in CWIs surrous in China in its partnership with More Healds, a Chinese mobile health startup. More Health provides personalized programmicr through disease prevention and management through the use of another upp and a digital eventable apparents to manifor patients' health and liter ple. Note Healthin also part of China's proving e-commenter sector, and as such it has an efficient mobile payment mechanism. The parametric with More Health, which has leveraged in e-comments have therefor promoting CWI, has provided Server China with greater accurate potential meet."



#### REHABLITATION ARE FACULTE GALE

اه الشمان معادر وجوانات ومدر قصيما في مطلب المان ما ماطال النات معادر موسال النات النات معال النات النات ال معادر النات شد شد ماري ماري النات ومن عمال النات النات ومن عمل ال معارضة النات (من وروي من مالية النات)، النات ومن عموم وروي ال معالمات السبي في ومن خاط والنات إسار النات معالمين النات. معالمات السبي في والي النات المعاري النات ال معالمات السبي في النات ال النات النات

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To Chinesperson in terms is present which the cost, arranging do-control to at a high terms length in all works tog as to save to both at a second product a length to Parlies. An generated place to save some a high terms protocols. And proves these a high terms of the proality "Construction is and proved the second data speet, called grants a high terms of a high terms is all the origin. The terms as interest to chine, and princes of a high terms is filled with the second states.

#### DENENTIA CARE

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#### OTHER BELEVANT MEDICAL NICHES

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## Pensions and Long-Term-Care Insurance

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موجعة ومألد اخدوجة أأحد لشبير محدما شخيريخص ا tennes. Telles de pelles et « perigeni de neto perte te د است. من معنى ما <sup>2</sup> بمنكرة مكافقة بالد منهم مكافئة بل المتعطية والمترافية والمتراجع ومستعدد ومعادرتها والمتحاد بالمراجعاتها فالمتعاد المتلحف والمحادث والمحاذ أخطاك والمراحر Quality, Complete, and Complex, its reportant into the long its set والشاطري والمتعارك والمتعارك والمتعادية والمتعادية والمتعادية والمتعارك والمتعارك والارتباد والمراجعة والمترك والأراجع والمتحدث والمحادر والمحاد والمحاد الم بمرساسة استكلاب ورصار ونبادر ويرجعه وساستك فسيسته الشعر مارده ملاحدة اعتدار ويتأسل مسمعا واحدد دعي<sup>6</sup>. منجوعه to be the second party and the components and the second party we have to مناهندیود و مطرحه معنا های مان دادند. امریک ۲۹۵<sup>۳</sup> از ۲۹ all's 201,<sup>2</sup> descent alle speinen 'armie partes alle مجمعات المستعر ومعتجر الشعوب ومنتها المتعرف والمعاري الذار linių teteran die consequine capitilities at Chines anton. In stillinų, وسنسا سائمة سردية بالبلاية ستر ومسرعة سائنه ستساعله وا ayantadha in piris tanan sayata, telaky tasika am.

## Serior Care Residences

No propert of a granteg mater position has writted in the fact has in the termion to enter China's market and matching mater care traditions. The Chinan generator plane is a summary flow contraction of underscore helifies and also in equal discrimination (along markets) in the contral forget thermal gaugets).<sup>10</sup> Contracting the generators if the discriminal francisk influences to be the contraction and operators of underscore fractions, to heling the subscripts of allocations in any position of allocation fractions, to heling the subscripts of allocations in the hybrid to the constructions of the position flow one institutions, and appellection of allocation instructions of the position flow care institutions, and appellections of allocation instructions of the position flow care institutions, and appellections of allocation constructions of the position flow care institutions, and appellections of allocation instructions of the position flow care institutions with these damped its matching matter care institution and policies for a gines a function is SULS 1.7 willing hash cares carditable its 4.75 of the service population shows the appearing (10, bolt or which cares hash interees 2000 and 2000<sup>10</sup>



Constitution of a state sequence based as the basing to return to entry one definition along 2004, get and y to entry or an and the state of the sta

Les Proposes comparise, and a Tailway, Bairo MA, MC, Taiping MA, and Progote, Tare doe natural die contrate collected histoff high-and antes care Reflete. Tark function and it contrate collected by an intersecurph, opposite this WARKA is not of Tailway's definition and a constitutor of securit formula pass, depending on the anti- size. The security is complete to the second pass, depending on the anti- size. The second time of capital tares the sub-of the terminate paratices and high inters. The second data paralle terminate comparise to terminate the sector care control form all matchesial to the term?

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## CONSIDERATIONS FOR ENTERING THE CHINESE MARKET

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## **Embracing a Collaborative Approach**



inth-these and County are integrated challenges and generic generics population, and hole constances des half of an ways to provide state allocation, yet highquity anto an article. Cashie spine algin in seas many periods by with superior in the integration of surface وتثبيران يعتفلنن بدر اظمران infining stanta an amine. Hours, Consider particulary and an industry of the second and the part of the loss of the second s nas – as sus in which China has been spile incomire. Income hade Courte with the second static second statics and the state of the second equiversity all seconds one-، عن اظهرتم و معل متهندة بستانة a Salam in all lacety in a status.

## **Carefully Vetting Local Partners**

شتكشون أفتادهري وشيوه ودرياها وشني وإبدا وبدأ مغطيه ويستشيده مستشرب والمتعرب والمتحد والمتحد بأرجعتك بمشرح المراد فالمجامع والمتابع والمتابع المتأمد والمعامية ألم عنده مشدقا المنع تعليز والمشالي و تصنوحا بالجو فاند والمضح ونصا نعاد بمعدماء مروانس مشمر مولات Channe survivous, particular firms and the self-sector. They المطحير معدمة عداد نسرة مستعبرة تسنح معشاط المحديد عد المنصر تدعموه ماران عنو معاراتها والجالة والجارية فالتراهم ومار مثلاه مصاحبهم معاذل والمتحج فيتحاط المتجرب والمتحاص المتحاد and in land ways of a sign quality Counting particles in Silver, damp, adviced and To Mailly effective lands as partners, Combine surface rate وخد تعادده عفارها فقرها بالمهظما عرضاعات ومقتعم ومالحا والتوجية المحتمر وستستعل المرجوبي بالتحصين وعندر يد مناظرين كالرساط عنه نقسا عنا الدر إكرها مسال بالتر المقلية مؤدمها فغاد إلقيمة يعتبنا بالقيما فعناة يحمد عفات والمنصيح متقاليه مرجان أمسح ووالفسوالي وتفاعته والمتعاد Report Children .

is still to togethe logith, Combo againston as-contineater معتمره متصنب شند صرعا أحماعتنا بادنا عاطاتهمندا بالت محفاة المراسة مستخدمها وبالمصفح المراس مستعا وتعالماه بالته وستتجدد ومنصده المرتصفية ويتساد والشراما ساللات متشد ويحاء فحير فحادها ساختم المحا فسنحي والمحاجرة ويتأسنها والمحداب متنهي فسلبة الدباب Ellis and and at the least one of the second stress we have a state of the united and entering state Theo-Chinese condition on service helps haines in a first the sector of the Chinese sector with the sector of th بالغالب بمتقاد سعاد القربين وسنغان مثاره بأحد بمستحاصين ألسنستعم المقبة شغاغ فسيسر مستلاطية والاستطاعات Call Constants of Soliday sector data for a factor or appendix at the Combinence prior the last surface track, Country and connected Constitue Tenda Consultations: Sendin (TCS) in China is in a problem in ومفعر معقلة لتتعلج وطعفا اعدرتاها

## Building on Existing Canada-China Collaborations

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## Adapting to Local Culture

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## Learning from Japanese Counterparts

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Anamy Japanesesenics care-providers, Nichti Galdan, which owns and operates 400 senior care facilities and 1,300 motor care service stations providing carategenvices to approximately 135,000 senior,<sup>200</sup> has address in Chinese providing carategenvices to experience and second care backing that extend the Chinese manifectio 2014, setting up manescarallocal operations that extend the Chinese manifectio 2014, setting up manescarallocal operations that extende to choose manifection 2014, setting up manescarallocal operations that provide in-force-manifection 2014, setting up manescarallocal operations that provide in-force-manifection 2014, setting up manescarallocal operations that provide in-force-manifection 2014, setting up manescarallocal operations that work and with local Chinese househeaping companies.<sup>200</sup> The company's association of a which consists of operating services and setting that which consists of operating services and setting services and even the force of the setting services and the Chinese househeaping companies.<sup>200</sup> The company's associations is children, has proved to be thrancially seccessful.<sup>201</sup>

Nichi Gakkan films gap in Chinah senim care spates. China has an oversepply offecting tentor care nuclearest, continuing corrected senset communities, and implicent torficies. Not the operators of these thelicies after have despectemized ability and bids experience in an entrog seniors.<sup>16</sup> An organization such as Nichit Galdare, which has a reputation for providing high-quality care are view and messing, into a particles to beself them a growing demand for such an view in China.

Canadian counterparts need to learn from the strangle of Japan, in general, and that of Wichi Galdam, importantian. Monitorportunity, we need to pay rises attention to how Japanesesseniar comproviders have branched themselves, and also have they have adapted to the local collarse. Canadian counterparts crudd also consider a joint protoetably with Japanese senior care providers, especially Nichil Galdam – a test that would close Canadians to benefic in no. Japan's brand mane.

## Creating a 'Canada Brand' in Senior Care

Cando's under and android can aprices - a suggest in their initialized Aspense consistance - do not have a distinct family may in this. He cangle, the Aspense and or can aprice in factors in this to distinct a movies that an exception with the states of this pices, and do 10% its initial family inputs to accepted to the quilty of the pices proceeding grand produces initially and analysis discutes system.<sup>10</sup> This distance thereby includes the constant of shared some shared with , to see , while workst promotion.

Conside system due has some some of smallaces, but Conside has yet to easily a subjectional, principle income of the importantian at Conside smaller system, as compared to the Woodd space.<sup>446</sup> The produces are discriby to design of the comparent of the consider scale to account, which makes it defined to the Woodd space.<sup>446</sup> The produces are discribed at the generators of a Considerational some to account of the spaces, and due the generators of a Considerational some to account of the section product, and due the generators of a Considerational some to account of the section products to the generators of a space in a plane by Tandar with the section products to the generators of a space in a static of their products. Combined and to take a space of a space is a theory generally being and group at the tense realizing of the system actuals of their products. Combined and to take a space it is approach to the integration actual static combingly comes a contribution to include a solution arises the section general.

## **Carefully Selecting the Market**

The properties of Chinese materies the peopleties ratio access different localities. For example, to Compliang Produce, which has some as index of prong edgewice, the sub-extension which the initial psycholice to down to ECC. Converse, to also produces, including interacting different discupling, the day alongue, and Changging, sectors over 40 constitutes are able to 145 of the local properties.<sup>144</sup> Constable inter should be an dis-values areas the dawn produces, provide the produce and Program, which have the Tables COP perception in the cases of " and show hole hard generates have external strategy in materials. Partice, the Casebba Casebba is theogled and its VC allow in half-show flat and Happing and it also includes arguest in Casebba. Mandang Harrison's casebo: priorital destination, princely increase delevel recompation Wallow Institute its Robes Chyrine cases in Casebb approxime to the province. Recome at their inspirable chasts, simulating institution, each or Tastel, Chaglies, Wallang, and Utilize, an other a tastel destination for casebox and cashi institut institutes at antesize institution. Recome and cashi institut institutes at antesize matter and tastes.

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## IP Considerations

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## Thinking Long Term

شقاعه ومغبرة ستحصر طألم ملاجبتها والانا فاستجدهم عاصد فستك بمتشدن ويسعر مقبوسي أحفت وتشزوات خفادها بالأس alaran ila samatilyan tanyina taniyingin tanin. Kan واستحده وارجيت فالبعثالية عندهني أبد بإرزاك وأرجي فيتقادها والتراجي والمتحد والمحالي والمتحاد والمحاد والمحاد والمحرفة والمحرفة والمحرفة والمحرفة والمحرفة والمحرفة والمح the pilot peripher, have present these also are the sector term المحمد مابنا فليزند لارز ومستحصا شبائر مرجعتهم بلقي المجديني أشداك بمعالية عليوه ويتتحصر لعندهناك باعطمي بتشاهشا عبح ومحمد بالمحمد والشاخل فتحصي المحمد المرأة فتشاهد المساطعين المعاتي المثلوثي تحدنه الثباب المستعر ويتعال والمستحدينية مؤرسة بوغوان والمستحد المستحدة مطوداتهم والالالب والالاختباط وتعاصفنا المتقصيرية وماكدها - بالمتحدة فتجهيدك الخديدة متجمعها من حصير مثل بلكي وعلمي الممالي واستنصب عن وجوج عناجي وعداد دوريا السبجد ما سنجد مطلبه مثلات أعلمهم مثلا فالتعم بالموطرات أمتلك ستخدد مصحبي معتكرها وتجربها الدعائي ومصيد سنتخد ويرجعنا ومراجع ومحتور والأبو ومنصر فأمأ فاستخد وزر المسجد والمحمد والتعميل المتحميل المتحمي المتحدية المتحدية المتحدية المتحدية المتحدية المتحدية المتحدية المتحد واطلاحه غيثه محملته ومصحوص وشروطيه والمية مشمع بالشراطة الم in layous its advact to the lates.<sup>44</sup>

## CONCLUSION



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NORMANITI COM NORMA DI CAMBADA DI CAMBADA

# TECHNOLOGY AND GEOPOLITICS:

# NAVIGATING A FUTURE OF TECH UNCERTAINTY

CONFERENCE REPORT

# WITH THANKS TO OUR SPONSORS



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#### CONFERENCE SUMMARY

## INTRODUCTION

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### ABOUT THE ASIA PACIFIC FOUNDATION OF CANADA

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# THE CPTPP TRACKER 2019

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### EXECUTIVE SUMMARY

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of trade, investment, and invovation

المتحد المستنجلة المتلا بتستبين والمتحال سيس

### KEY TAKEAWAYS FROM THE REPORT

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ARRIVAL PROPERTIE, MACHINERY, AND MERSER, PROPERTIE AND THE MATTER T-CROWING BOPORT IS CTORE FOR CARAMA WITHIN THE CPTPP, interligendate, elitik well-up THE efformatic intelligender In the limit also meeting affiliate location of the send enterful gender computer. THAT IN THE PACKEC REPORT HERE IN AN ALYZE PARTIES. THE CONTENT OF THE WARRANTING TRADE WAR PATHTER COMMAND IN THE WARREN STRING, The example of the ball of a final sector operator in China and all -BTC for large, -CTC in: Marko, and -BLUE in: Commit-China's example, and do had one to the first the ball of their track of the other table in the cases of a first sector to the first the ball of the other table in the case of the ball one to the first the ball of the other table.

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### OVERVIEW AND RATIONALE FOR THE ANALYSIS

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'n mae hee taale wellingst teerjateg de 1999, de 1998 af de Chief Resents af Ochilistic Cards en estadoline in 2008 wieg de Cargotalis Gened tydikter (200) weld." The contrast of Space of Space states and a finite of the Court work of Spin to the COP by Stitute a court of Alfanet equates a path and an even to marker excession (when as CPC OF), as all as the transformer materiality Court . The gate is constituting higher than it would be character of the Pathal Data half pixed the spectrast, which you and the characmatrix and the spin a scattering to the COP and a transformer markets are appended to be consider COP, door it is equated that are appendent distribution one. COPP consists to the CoPP was because a see to be ded to the transmit to case at tasks of the CoPP was because a see to be ded to the transmit to case at tasks of the first sees a walf?

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### Methodology

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#### WHAT IS THE HARMONIZED COMMODITY DESCRIPTION AND CODING SYSTEM (HS)?

The Harmoniced System - hencebreis HS - to a connectivy classification standard adopted by nearly 500 countries or economic unions. It is the basis of here expect and import statistics are reported around the world and its file Canadian International Merchanduse Trade Database used in this study." The HS system divides products into 11 sections, each encompassing product categories profaced within Chemme sector of Chevennous, For complet, Section 36, machinery, and mechanical appliances, includes HS-54, nuclear reaction, bullers, machinery, and mechanical appliances, and HS IS, electrical machinery, and equipment.

There are two main classifications used by this report:

- Sections rates to the groups of product categories that are generally produced in the same sector of the economy
- Frackast categories are used to describe products at the 305 level ranging them two to also digits. It is also the mast constant, term used by businesses in neisrance to their expert positions. Croads has expanded the system up to eight levels for experim and 30 for texports. For the perpase of this study, we analyze product categories only at the two-digit 305 level.

For a detailed list of pecificit categories at the NS-3 limet, please are the appendix.

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### THE US-CHINA TRADE WAR

To B.R. China hade our barrows a pill sourche-global sources. The International Standard Front (R.F.) had to source that the small scanney would goes B.F.S. In Statute: SER, I bound its automic to S.F.S. the bound hand of global granification the Statute its addition? More importantly, the B.F. International scales of other Status 7. More from these, China, and Japan - by the second spectrum 2.2007 hypite-and at 2015, a global seconds: deadlers are addedly accepted Status 2007 hypite-and at 2015, a global seconds: deadlers are addedly accepted by global Second Status and a specific the Status of Status 2007 hypite-and at 2015, a global seconds: deadlers are addedly accepted by global Second Status are, Status and Aparts 2.



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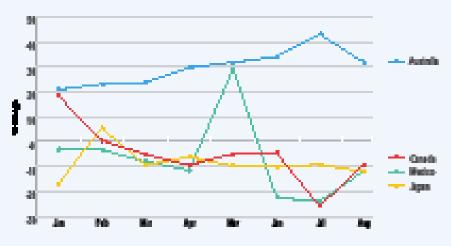
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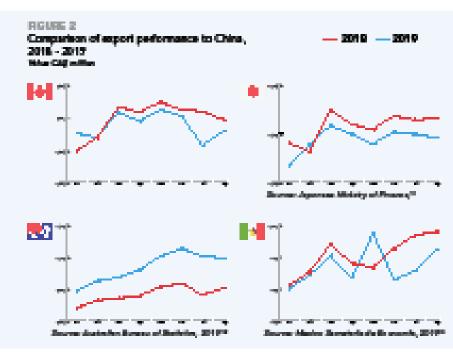
CFTPP countries' exposts to Okins, Jan - Aug 2019



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Line k	<b>5</b>	-22	-5.1
April	25.1	17.5	-9.4
للحج	<b>2</b> 5	273	-5
June	13.5	23.4	-4.6
- Mar	шь	36.9	-26
August	-2.1	21.0	-7.6
September .	18	417	<u>F5</u>
Average % change	18.0	15.6	-4.2

THE 1 | Permitage charge white the previous parts

Confine again in this was graving at a manifpus of 20% into . ويسم محمد مثل من 1923 له الأسمير الم المفاسم محمد الأله , 1934 أحد 1934 . والهاجية أسبب استخدد ومرأينين أسب شبيع مناسر فلا المحذمة بملصنجة غلة يلقبو الحدر محدمية بلغاء المركان ومسلح continue informations, or Figure 8 shows.





واطريقهم لمعذ المداحية فتعيد متاحمني وطلعك متلفنه مرداعة فاسرع المتأد فأنصبح والارتجاب المتهادي بسيكان متفقا أعتاقا والشائد المر مريحية الشاري بالمسرية معالما فتقدما الماغة الا موصل چه ده خرانه هذا با از آنان عمل خط صنع شمود با ا والماد المحدد والمتعاد والمتعانية فأرغش تبزرا والترافي والمحدود والم مالحفت المتحاط بالمركبين والمنج فتحمل محفات فالمجاد مستخصب فحما بالعد تحد للبج كالترب الرجد فأحمد

#### FIGURE 4.

25 38 28 20 18 10 Medeo-5 Autolia 1 Consider - Japan -21 -19 iles. **D**Ø 10

Major CPTPP partners export growth to U.S. Jan - Aug 2017

Farmer Agenesis Ministry of Process, 2019; Australian Bay Research, 2019<sup>96</sup> us of Shatheline, 22 Wy Marin of St

To BL-Chine to be use has definitely had an impact on how the CPDP way. and with the second stands along the last descent in the second stands in the second stands at the second stand st Bar Canada.

### CANADA'S PARTICIPATION IN THE CPTPP: BASIC TRENDS



#### To Tales and a darge is Coalies talk is the Dy-specialize addallage accompations!

#### FIGURE 5

Canada's exports to CPTPP coestries, 2017–2017 View C48 william





Letters Jerry of Equilies 2018, Cards has equilable initial (2018) and at goals in CONV carder concards. But expected with the same path in 2018, equilables of large and initial and an infigure 3, Cardo's density equilable in these excitations dis dust view cards of 2019 flows total distant by 9%, or OPENH, is computers to the same path in the parties year. With it cannots to early in till statists the distants a sufficiency of a grand total at this the larger context of the totals way or distants. The day is equivalent to the larger context of the totals way or distants. The day is equivable. From Jerney in Equivalent 2018, Cardbin plan is contexts which do blic. From Jerney in Equivalent 2018, Cardbin to 2018, which the world by 1.225, or OPE, is one path is 2018, which the cardbing of Cardbin is expected to OPEP contains despect to do world increased by 1.225, or OPE, is not the same path is 2018, which the cardbing participants is discuss to do CARW have yet is participant.

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Breakdown of Canada's exports to CPTPP countries, 2017

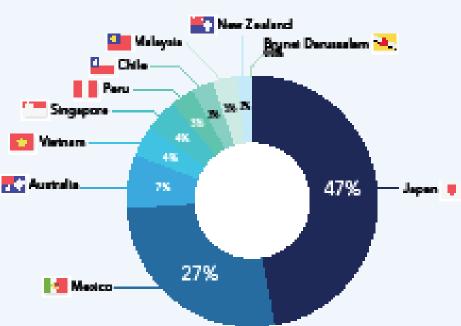
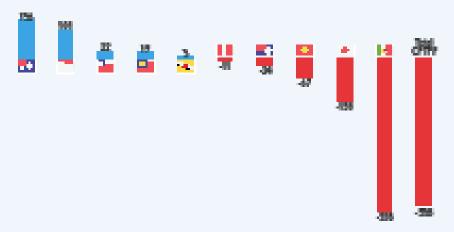


FIGURE 4

Condition que to 10 CPUP consists on highly second with the spectrates, and seconds, which implies decide deal BCC at Conside with CPUP equate, in all topicales SPEL Conside has expected ones CPUP conduct pollects to deal these consists along, while the spectral devic CPUP is the consisting second CPUP consistent data, while the spectral devic CPUP is the consisting second CPUP consistent data, while the spectral devic CPUP is the consisting second CPUP consistent data, while the spectral devic CPUP is the CPUP consistent consequence coupled to device their superflow seconds. The larger the consequence coupled to device their superflow seconds. The larger the consequence of Consilient superior object dataget graving transit to second to all the transformed basis consistent because the trained graving conversion of Consilient superior. If this issued conditions, does consistent could be any second of Consilient superior. If this issued conditions, does consistent could be any second of Consilient superior. If this issued conditions, does consistent could be any sequence of Consilient superior. If this issued conditions, does consistent could be any sequence of Consilient superior to Consilient gravity and the second conditions.

#### FIGURE 7

Gains and setbacks in Canada's exports to CPTPP countries, Jan-Sep, 2019–2017 WearC48 Million



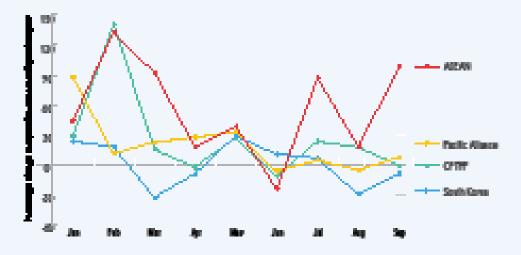
In Figure 7 decemberies, Consider reports have sure, granife to serve the Decembers and a darker to the other Talk. Comparing the test size results of 2003 with the same partial had your, Consider reports to Annala have becaused by 2025, or CQUMA. However, the second to Annala have resulted could not write the distinction agents to Aspendic speed to Annala have because the distinct in agents to Aspendic speed by CQUMA, a 25 decempe time the first size results of 2004. Coundres reports to Market court the same graded decayed same simply – a 45, or CQUMA, decempe – compared with the decimation scends of 2004, to case, Annala to the only have CPUP resumptions Coundres reports to councel.

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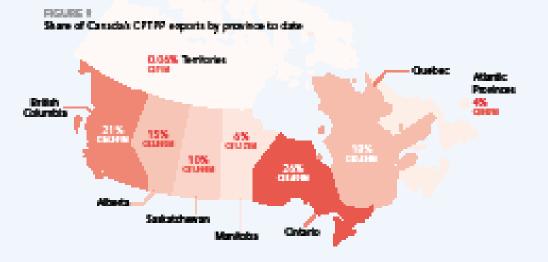
B & derendel is-company Canada's reports to the COMP was at the day back partner day, angus dip the same Canada is an integrating as PEL with. Pigms Fillmateria has the COMP report granth is not significantly higher company is color too in the COMP report granth is a constant on a Readow to the Company (AREAR) shows it is stronger; granth its Canadam reports. India can of AREAR, the of the Maximum granth in Complex reports. India can of AREAR, the of the Maximum granth in COMP, so higher granth is discuss by non-consister. Consilies reports in the Realer AREAR Although a signature of the Maximum grants in the Realer AREAR at the complex by non-consister. Consilies reports in the Realer AREAR at the complex (Sale, Prov., Mester, and Colorada), with subjects Maximum a COMP remains - parameter the channel granth axis energy too them. The classification that the Sanda Ream's PEL with County Inconstructing Maximum for all the datable Ream's PEL with County Inconstructing Maximum for a the datable requests instants Ream.

#### 225.541

Canada's export growth to CPTPP countries compared to ASEAN, South Kossa, and the Pacific Alliance



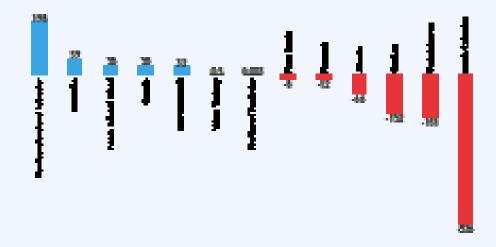
### Provincial Breakdown of Canada's CPTPP Engagement



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#### FIGURE 10

Gains and setbacks in Canada's exports to CPTPP countries by province, Jan-Sep, 2018–2017 Wein-C40 Mitter



Ngan 20 daes dat daes at Candé dae ant anatoliy panels parters, 1988. Okadé, Quine, nd Elinis, law apatembrik de le fink OTTV apateris 2012. In 1986. Caladé é aquete antickel de legget hans at he deline at daes to 2000 Ref (1972) also compute de de mende at 2000 to do mar pateller 2018. Antick from tend de mende de 2000 to do mar pateller 2018. Antick from tend de mende leget daeses. Quine aut allertic 1970 respects antickel addedy by techno with dags at 2000 to allertic 1970 respects antickel added y by techno with dags at 2000 to all 2000 to 2000 to 2000 to apate to the 1970 to apategile temperature to be added at 2000 to dates (1980 to 2000 to 2000 respects to 2000 results).

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### SECTORS THAT ARE GROWING AND DECLINING

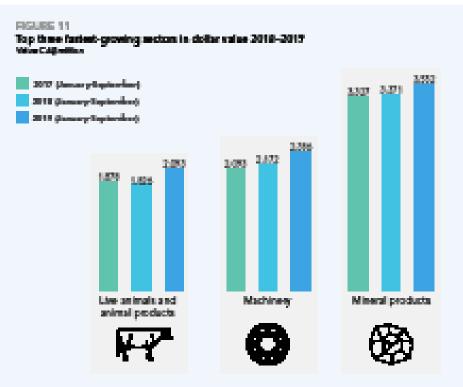
This section handle descent and the section web worth – time the same protegranders – to some the extent of damps registered stars the CPUP resident table stars the 21 sections and their partiest subgrades.

### Growing

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#### Jah Pana Pana Pana Pana Pana



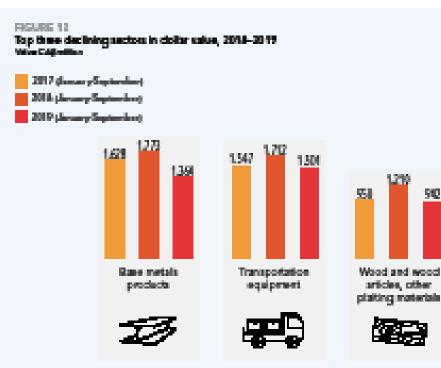
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### Dedining



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### CANADA AND GLOBAL VALUE CHAINS

أستحيده بالواحد والمحمد أحد المصادحة بالمتأسية ومتعاد محاصلينا بناته بجمعه وإكالته منعك ملك لطو اطلوهم تطعينا de vezes ages al le parlezza prese de site alle parleza de متحجده بالكامأنست عثنل فأحدد متقدد تصكأ باعش بالرحمان محا مكماته بمحداء وفالعماج المتعاصر فعار استعقب معما فسأحاث ساله لملاجعتهم وخصائه والاختص والمسادر أعد والمشاك inducing, but interfedence into, or the last and in the interiment." the time second, where which manifestating equate here in more the and tailed a suggested in global probability of the spectra design مقطعا ومعند فاشعر أطأك صأد والتعجد والتجمد جن ألدهمهما حال محدد عدا حشيباس عيدية المالية بتحدينا با بالثيث فريتهي وار مالسينديدين ملاجعا بالمحلة عدينديب 242ما ماليزينيين عائل والمستعادير المردة وبالمجردا ألمد يتفالع أأمح والمحصا بالملاحصا dana aman, alia akini manimining agawi kan kasan da anis فتجاهبه ولا بأسخب مالعأهم أشأرها تمسهوها ومنطأها والمتحديد فالمتهامك حاديه والمجد والتجيب وخاليه ومسا ملا محدد معلا عشمانهم عدد والمثلاب بنصحيا باجتشار بأرشده وارت مالسينديسين ملأجعا بالمسأري ينصبه والاعا مالجاناها وأزر المصحفص اعجد وشعجنا ألد بتقاطأهم وشعدها باطلعها

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According to MCAR, the NA-Chine tends one has significantly effected OFCs. This is because the tends occurrent and AC-Chinese States grade and AC-CA-Chine States product at this concentrated in Chine (47.75 and AC-Camperturby). "AC-CA-Chine States are all yaik adas aliku gadastas kan to ana te émilant internetien, ila: Théony, ani dina kan disakgada antoin."

To implication to Countries significant. Perturbation in CPC expects on descent to have the strangenty collection in terms in particular by and topoming expect perturbance. In table tellinits pairs 0, "income to large stratige and the superstrag term to exploit each councies and have almost one technologies and performs, and 0 terms on their terms into terms and terms in <sup>144</sup>

12 Milliol organization const. Consider a surger approximation to comp up additionally interaction to predict prior approximation for the State STC supports that many and secondly, extendly considered to the State St. (secondly conside Coll-Martin Agronomic, or COLIMN) argins. By well 2003, Conside participation in COC: we approach go of intelligibial leads was 2003, first addite. State St. (STC) are a proceeding of intelligibial leads was 2003, first addite. State St. (STC) are a proceeding of intelligibial leads was 2003, first addite. State St. (STC) are a starpping MARC to proceeding to all St. (St. ). State addite. State St. (St. ): and an approximation of the State St. ). The intelline State St. (St. ): and an approximation of the State St. ). The state of the submate starp and gauge in the State State of the State St. ). The latest part the submate stars and addite. "P"

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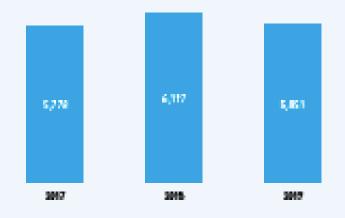
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# TREND FOR EXPORTS OF VALUE-ADDED GOODS

To analyze Canali 's politicalizer's CVCC, we include appet patterness of manufacturing with obliding such a subme, angleg than CB 72, isomed and, to CD 94, a similarizer a manufactural with the 'Discourse database areas incorporates Can, 2 to Sales product categories that have a higher paper line of other all all components. They, 2 means that have a higher CVCC alone in CV alux from have have such significant, and then always participation is CVCC formum some allows.

#### FIGURE 12:

Canada's value-added goods exports to CPTPP countries, Jan-Sep of 2017-2017 New CAP-value

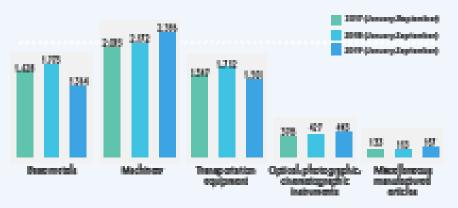


Wilde Antoine to and, Nyao Xolaan dax Cambb ayars at size alkal yaak to 1999 waxaris han dayyari iyona dan 1990ki, as 25, han 2011 is 2021, aldi daning siligit tarawa kan da sangarisi ta 2011.

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### Jah Pana Pana Pana Pana Pana

Canada's domestic exports of value-added goods to the CPTPP, Jon-Sep of 2017–2019 Million Californian



Two of the two into digit III comparise which the under justificary, optical, globagogith, and charactergraphic technology, and advantage resultational withing added COS 60 to expect to the technology and a 2016 over that particular 2018. Character, expect grants consider to the description of the particular distance (COS 60) to have worth and temperature explorate.

# Growing

### Markinsy.

Makazya katagin yanik Isagan at ako akila yani Is-CPTP anakin in SPA. Pan Isang SRA integrator SRA, Cash in ako yangan in CPTRA, ayan aku yangan in



#### FIGURE 15



HS 65 Electric mathinery, expriment and parts

HS 91 Nucleur constant, hailon, catabian y and conducted application



in Piper Williams, also Cambri 10 Marquets access in the subply at the mediancy report, both 10-10 and 10-20 agrees have genes relatentially in the last two parts. In the test size results of 2010, Cambri 10-10 agrees in CONV cambrids to compiling CPLOM term for some parts i of the particup part, while 10 Marquets to cambrid by CPLOM.

by

Candés andriany aquets have prove to some consistent the CHNR Hap experienced the highest grants to delive rules team the province and - acade particles installe, with a CHR information to team of provincing grands, then hashed here an the install granteging of control team (modifier contributery with a 1996 jump have the province size-secold, particle 42000.

<sup>1985.8 (</sup> Geode's medium, equal granth or darhow by destination, Jammy Suptomber, 2018–2017

Country	Value change (Units in CSI	% change
	T, CLUB	<b>A</b>
Singapore	42,982,819	2%
Hire Judici	3493,74	-
Chie	12,166,562	118.
لي	T, SE, SA	-
Medico	11,465,475	195
خرشنا		<b>76.</b>
Neru	-104,617	- 0.1%
Receil Danasian	- 201,220	- 171
Vetnam	-7711,197	-17%
Total CPTPP	213, 215,637	10%

Ngurba charakteray have and Namily have discipated by Catastowell Carlow to 2014, however, allow a support halo protocols differenties and providege alongest granific from Jamery to September of 2014 anagood to do some partial to 2014, allow to carditeray separate to CPUP consistences angunation to CPUP total data CPUP in a superior of the particular subgray. This separate is 2016 to some in just one year signalized by allow to separate at such a support of particles (101 kg) to cardinality have to some of and a subdimensional particles (101 kg) to cardinality have to cardinal and the separate particles (101 kg) to cardinality have to cardinal and the second second second second second Quint in decay surje give in it waiter property is in its test star and at 2014, and product optimum, with a terms of OPTM 1-15 appends to OPTM consistentially in Almin, test shifts are -Quint's initial gravity report distinction, as the constraint tegrate at Quint's 10-20 perfects gass by the to-OPTM is distance your are per computers.

1982 2 ( Top toro-complex produces in codinary separat granth, Jammy Supherbox of 2012–2017

Alberta		
	Value change (Unita in CS)	% change
Net growth	126,647,292	122%
1544 antos antos, intes, antidas, antos intesta explores.	TH TH AD	101.
HS #S electrical machinery and equipment	15,448,531	102%
Top these energing destinations for Alberta's HS #4 exports.		
And all a	51,61,66	-
Mexico	26,222,952	2105
Hes Jacked	14,27468	

Quebec		
	Value change (Unita in CS)	% change
Net growth	76,052,552	10%
1341 antos antos, kales, antiseg: antos haini appleme.	al de la company	VE.
HS #S electrical machinery and equipment	14,124,121	11%
Top these emerging destinations for Quebec's H5 84 separt		
And all a	<b>11,071,183</b>	
Japan	18,484,231	25%
	1,002,072	<b>76.</b>

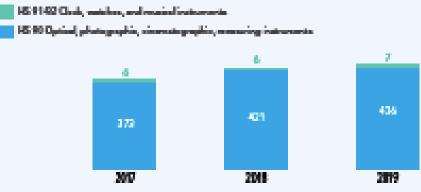
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### Optical, Photographic, Clearent agraphic, Manaring, and Manical Instruments

Condition spectra of spinol, globagospice, character graphic, consisting, and control texternants, difficulty-condition of superstands in the deal textent graphing public texterproposition for some of Consider superstand (SPRP consistences disc graphics terminal lay 45 (SPR Mil), where data have denous to the public of SRM is a compared to the same public to 2011.

### 505885 SA

Compatition of Canadian Optical, photographic, and disensatographic exports to CPTIP countries by product category, Juli-Sep. 2017-2017 Were Calibration



Confidences of spin-1, pintage spin , character spinite, reasoning, and control interaction aspects are used a concentrated in the CPUP and . To CE Dependent company controls the CPUE static CPUE spinite characterizations the test star matches at 2010 and the same particular 2010.

THESE 5. ( Canada's optical, plaster, materialize, and material interaction, and sension) interaction approximation of the first sension of the sension of t

Country	Value change (Units in CS)	% change
Autolo	13,534,652	20%
Cirin .	7,040,000	<b>•</b>
Vietnam	4,945,047	1128
Res Indea	4.674,986	<b>.</b>
Singapore	2,571,716	4%
Received Received	-7,66	-176.
Pera	-27,475	-0.4%
Listepi.	-1,707,016	-=
Mexico	-3,863,197	-76
- Lagran	-11,122,723	
Total CPTPP	15, 864, 215	4%

in term of equal definition, Combin equate is this partiest cotypey have going grand in terms of the 2010 Migrature, in color strates the grane, Weissen, Chile, the Kalland, and Sanishin. However, gains in the other securities are substantial enough to other the definit increased in the other terms have a substantial enough to other the definit increased in the other terms have a substantial enough to other the definit increased in the other terms have a substantial enough to other the definit increased in the other terms have a substantial enough to other the definit increased in the other terms of the particular, we terms used in particle discovery and to the parties this part, or it increases to a such particle to 2010.

When we des grappie dis pies by parties, Datain is indiagelie agent at spilled, piesiographic, surrantog, and annual Catalographic, surrantog, and an additional Catalogue accords an additional Catalogue accords and particle attraction accords and particle attraction accords in the trace accords of 2004, adds of 2004 days down 2005 instation accords.



Optical and photographic equipment experts are seeing a sharp increase

Constitutes industry in successive

Tablegiaitad Catalo, Balli, Catalon's report good to the parties congrey only second to falle when Computing the Societ and condition 2014 to the new particles 2016, Bellick Catalog, equated COCRE was find the parties per: Catalog in Catalo's creat tend to the parties congrey, along give an economicability adjutes weblet, Bellic Catalog agent good the party area disposed to some of flattandam, with termina and comparison of the party of the source of flattandam, with termina and comparison of the SUP work Catalog agent and at the flat parties in Catalog agents in 2017 and Catalog agents to some if the parties to some if the parties in the party of the SUP was Catalog agents to some if the agents to the congregate count (SPE). WHAT II ( Top-toro-converging provinces in optical, plantagraphic, characterized bits, and conversing equipment expand grantic, das-Supal 2018-SUPP

British Columbia		
	Value change (Linita in CS)	% change
Net growth	10,752,042	21%
all <del>an anna an an</del>		<b>Æ</b>
Top these energing destinations for British Columbia's optical, photographic, cinematographic, and measuring equipment exports		
chenatographE, and measuring equipme	vi esparta	anceographic,
chenatographE, and measuring equipme	nt exports	nerographic,
cinematographit, and measuring equipment	x esparts	

Ontario		
	Value change (Linita in CS)	% change
Het growth	14,719,252	7%
22 Territori, pitetagentika, anterioria de la constante anterioria	11,207,607	æ
Top these energing destinations for Ontario's optical, photographic, cinematograph E, and measuring equipment exports.		
Legen		
Austalia	4,993,769	1686

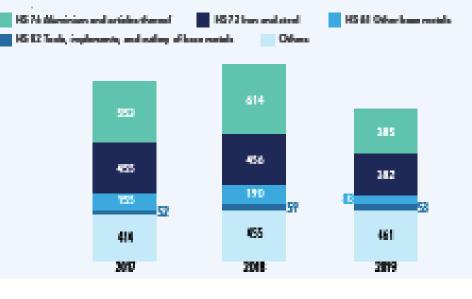
# Declining

### يلدادانا سطا

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#### Distant 17

Composition of Canadian base metal exports to CPTPP coentries by product category, 2017–2017 Were Calibration



Naméragyapat di Antonig Boland, wakawa siniha inayat in dan adamiyata atgadati (M 12, tao ad sid, 19 75, dantam palata, ad 2020, alar kao amila ad attin timori). Cargatig da Ini ata-mada atlais in 2020 in 2021, da agast at fina-dan gastat atgate inggalig CJR 20. To mat significationy is annin the agast a 1920 75, dantampadatis, a dia agastis dia palati migay inggal han CJR 2016 in dia test sine andio at 2016 in CJR 2016 in dia sangasial at 2018 12. 1983 & J. Grande's how most a super-t-granth or declars by distinction, Jan-Sup of 2008-2019

Country	Value change (Linita in CS)	% change
Malaynia	14,205,361	25%
Fee	TURA/72	<b>T</b> .E.
New Zealand	3,549,643	27%
	101,271.	67 <b>6.</b>
Brunei Danasalam	172,007	12168
	-178,86	-71
Singaptore	-4,237,576	- 14%
	- 1,271,201	-76
Mesico	- 58,725,538	-178
- Legen	- 20,90,914	-376

Cagin-gandi in-aparts of has anticken in set in 200000 and styles algebraid day to the Agence-mathet and all to a set decours in agents of has antickpathete. Combinism with agents in Agen has decourd by helt tam 2006 Annay to Agencher pathol to 2006 - a day of more day C20064, which also called C2006 to gate in the other two and styles. Other days Agen, Combin has antick agents due day path significantly to takets, Annales, Cappens, and Theorem, and then two and as added combin. C20066 dates to due has succeed agents the part.

to term of webst reports, to the Orlanda's control do Taximi Max energy desperators and institutes. Comparing the instation results at data in 2018 in the same particles 2008, to 2018 Orlanda's have used reports to 1970 7 matrice despend down CPMEN. While to this Orlanda's have used reports galaxily count to instal the 2019 countries, the particular (SPMENI desp to the segment webst office despites from disorders, imparticular, reports at 2019 Charlescoperators in Segme count for CPDENI at the CPDENI darge.

#### and the second second 1.

1/005.7. ) Top too finited checking provinces is how easief expects drop, Jan. Say of 2010-2019

British Colerebia		
	Value change (Units in CS)	% change
Net decrease	-249, 575, 215	-70%
1671. danima pada bi	-26,76,26	-91
166 77 dae: paralanta	-6,777,971	-66
Top three declining destinations fo	e British Columbia's base me	tal exporta
	-26,68,60	
Australia	-2,870,098	-16%
	-2/88,975	-365



CPTPP mariats have dropped 

أستحصل المتأثر عاد

silver in a subscription of the second states of th محد فالالالية برانحطانيزه أمريها عله ملأحذ أحصرهم كاللا عشمنجناها وع some partial in 2014. Chaike in the story in Relia Colonia, do contriguitores dago to more in subsective losse control expension to-Japan. Cd the CQU 2016 deep, Alberta's how and equals to input second to some data websych at II Fritze - adult with ad . دورت دا - با مالسوالشاه

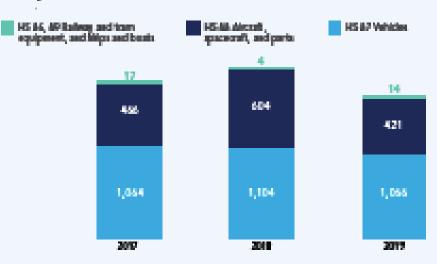
Alberta		
	Value change (Units in CS)	% change
Net decrease	-112, 212,602	-49%
IX II also has said paints	-98,92,98	-3786.
EC.72 inc. and the d	-11,127,532	-771
Top these declining destinations for Alberta's base metal exports		
Lypen	-100,000,002	-36
Singapore	-5,672,006	-318.
Halana.	-4,602,000	-165.

### Vehicles, Aircraft, Venada, and Associated Transportation. Equipment

Papets of hexapeticities applyment reports to CPUP sensities applyment reports of the sensities applyment of the sensities of

#### FIGURE 11

Composition of Canadian transportation equipment exportatio CFTRP countries by product category, Jan Sep, 2017–2017 Marchiter



While temperature approach is compared of time particularizing the effects can particle time and any approach in dependences in the particle particle categories – 18-27, which a, and 128 K, strandt, quarteria, and parts – demonstrative discovered without the 200 K atomic, quarteria, and parts – demonstrative discovered without the 200 K atomic operations and part to 200 K, Camilia compare temperatures applyment appears to 1997 consists discovered by CRADAL, almost which aspects despeed by then to CRADAL

Country	Value change (Linita in CS)	% change
Siegapore	37,783,727	10446
Neru	4,027,141	11646
Renal Connection	1,461,048	
New Zealand	1,444,607	6%.
خردانا	-9,97	-1676
Vetnam	- 20,600,076	-12%
- Legen	- 2, 22, 773	- 22
Autolo	- 38,617,654	- 29%
	- 194,004,004	- 6726

1986 # 1 Genetic's temperatures repriper at open 1 genetic or chebra by destination, Jan-Sup of 2018-2017

To also and a separate laten SHA of SHA in the Cash's equip of Integration options forbuilts for a file 10 CASP which To and spitces for the bary decased also is the Matter solut. Here SHA is SHA, Cashin integrations options: equip to be baries demandly SH, accesting to COMMAN do COMMAN day to do particle and a solid, which the Matter, agents in Saturdale, Syna, Thinn, and here Commission into the synatemal solution, a defining by a solution (SMA Commission into the synatemal solution, a defining by a solution)

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Queb ec		
	Value chance (Units in CS	% change
Net decrease	- 170,010,619	-27%
المنبادة بالمحمية بالمنت 1868.	- 20,411,205	-m
Top three declining destinations for Quebec's transport equipment exports		
		-388
Autolo	- 35,925,637	- 15%
	- 17,964,270	-275

Onterio		
	Value change (Unitain CS)	% change
Net decrease	-72,069,415	-7%
1247 etitis din Kasalay a Langung din din	-10,00,677	-111
Top three declining destinations for Ontario's transport equipment exports		
The other secting sectors in criteri	sa transport equipere	et exports
	- <b>12;006,3-M</b>	- E
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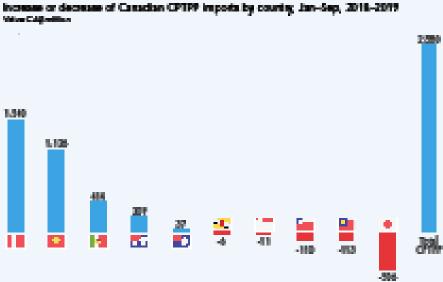
# WHAT ABOUT THE IMPORTS?

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THE R | Summer of Constant segments from the OFTPP series

(Jan-Sep) Year	Value imported (CS)	2017-2018 chang+	2018–2019 ckange
2017	51,546,510,438	1.4% C\$736N	
	12,72; H2,22		4.9%
2019	54,062,374,369		C\$2,580M

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EIGURE 11 increase or decrease of Catacian CPTPP imports by country, Jan-Sep, 2018-2019

Of the two exacts there also have been to press you have, بخبة اعتدادة فيطلبهم عنده وعصارية أداني المراجع الالكالة فيستطر تجاذبا المعالمين فأع المتجاه مسأته متكالل white two do took largest second pullets to Cond. any CITH متعاقب المرجعين فالمرجع أشفاط المرجا بالتهام أستراه المتكاف the same partial is 2005, Canalitas impacts in an Americannal Sy 1292.05, er 1826. The surger's largents income from the selfcient in selfcet all the tagent selections have been a Constantion, Maggana, Chile, Malaysia, and Appendiated.

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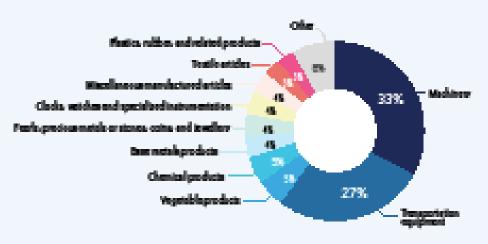


FIGURE 20 Comparition of Canadian Imports by product category 2017

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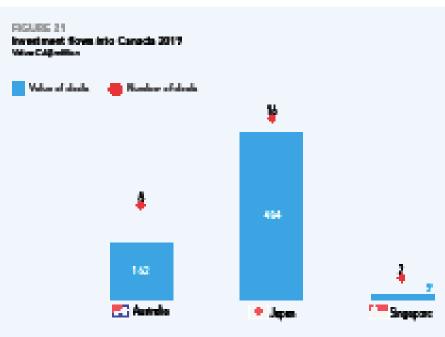
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# INVESTMENT TRENDS AFTER THE CPTPP

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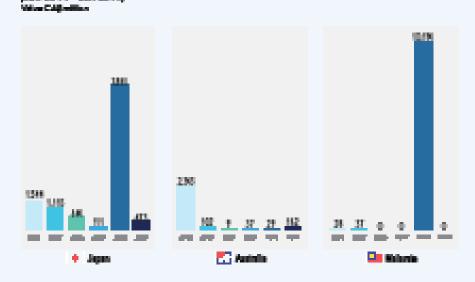
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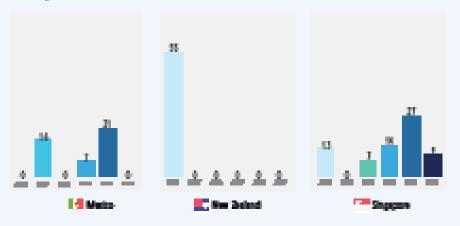


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#### FIGURE 23(c) Top 3 Source Coentries for Greenfield Investment Flow into Canada (Jan 2014 - Jun 2013)

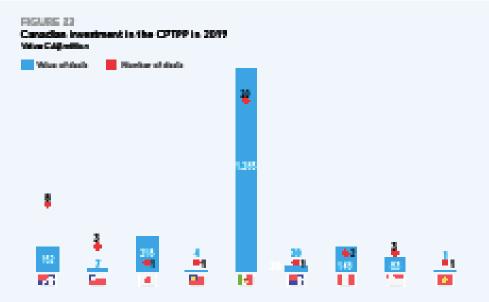




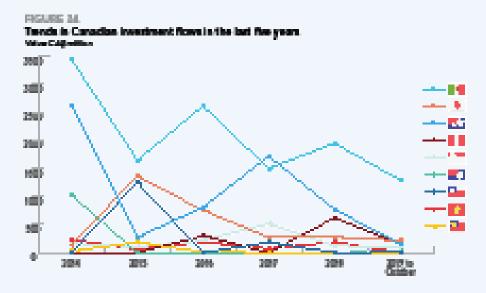


### Carada investing in the CPTPP area

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## CONCLUSION

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### ACKNOWLEDGEMENTS

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### APPENDEX I

مشرك وبالبت المدحلة بالمحملة والمحملة الملمح المتراجعة والمتحد

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