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Borders 2030: From vision to reality

Trends shaping the future of
border services in Canada



Border services in Canada are challenged to adapt to the social, political, cultural and economic forces that shape what they do and how they do it. They serve stakeholders across trade, security, immigration and travel mandates under unyielding pressure to provide excellent services while facilitating the safe and rapid movement of people and goods.

They are facing forces that are unpredictable with significant impact on all operations...



Border services organizations have had to meet rapidly expanding expectations with finite resources -in the face of disruptive forces that dramatically and unpredictably impacted the flow of people and goods. These organizations have had to fulfill safety, security and revenue generation missions despite the trifecta of a prolonged global health crisis, upended global supply chains and the most damaging cyberattacks in history.

To better understand the future reality of border services around the globe, we surveyed 5,000 international travellers and 1,000 exporters and importers (traders or trade chain partners) in March 2022, spanning across nine countries: Australia, Canada, Finland, France, Germany, Saudi Arabia, Singapore, United Kingdom, and the United States. The research is also grounded in expertise from nearly 500 global border service workers, more than 50 of our border experts and five of the world's top futurists.

Since March the travel and trade circumstances in Canada have become more strained, demonstrating just how unpredictable this environment is and the need to explore new approaches.

Accenture recently conducted global research with travellers and trade chain partners to better understand challenges and opportunities for border services organizations in the years ahead.

Despite recent pressures, according to Accenture research...

Canadian trade chain partners are satisfied with:



Registration and permitting process (91%)



Understanding entry/exit requirements (89%)



Port of entry operations (87%)



Recent border security experiences (80%)



Customs experiences (79%)



Passport approval and visa application processes (73%)

For international travel, Canadians are satisfied with:

Survey was conducted in March 2022, prior to significant travel challenges experienced in Canada.

But here's the reality

Today's landscape is more dynamic and unpredictable than ever

Canada's future prosperity is dependent on its ability to compete globally to attract people and businesses and facilitate effective flow of people and goods across its borders. The lightning-fast pace of change due to war, political unrest and climate change continue to strain resources— in some cases, almost to the breaking point.³ Add Canada's commitment to welcoming over 400,000 new immigrants annually, and service improvements made during the pandemic are not enough to meet the demands of the future. About one-fifth of Canadians plan to travel more internationally than they did before the pandemic.⁴ Global trade is likely to become more unstable due to macroeconomic trends as well as an increasing focus on protectionism and changing requirements.

Considering these factors, it's no surprise that 87% of Canadian importers and exporters expect more volatility in the next three years compared to the last three.⁵

Pragmatic border leaders understand that it is an era of compressed transformation. They know they must evolve faster to lead with impact—and prepare for inevitable disruptions of all types. Many leaders have already begun to evolve their organizations. Last year, 85% told us that they would revise their organization's purpose and vision statement within 12 months.⁶ Canadian travellers too, are ready for change. More than three-quarters expect international border processes to look dramatically different in 2030.⁷

Border leaders don't have a crystal ball. But they do have many pressing questions about the future—and the best ways to prepare for it. How will trade chain partners and travelers want to engage?

What opportunities will there be to deliver user-friendly, frictionless and fast experiences while upholding border protection and revenue collection? What technologies and processes will improve the security of people and products crossing the border? How will workforce skills and responsibilities change? How will the purpose of border services evolve?

87%

Of Canadian importers and exporters expect more volatility in the next three years compared to the last three.

The future waits for no one

Fast forward to 2030

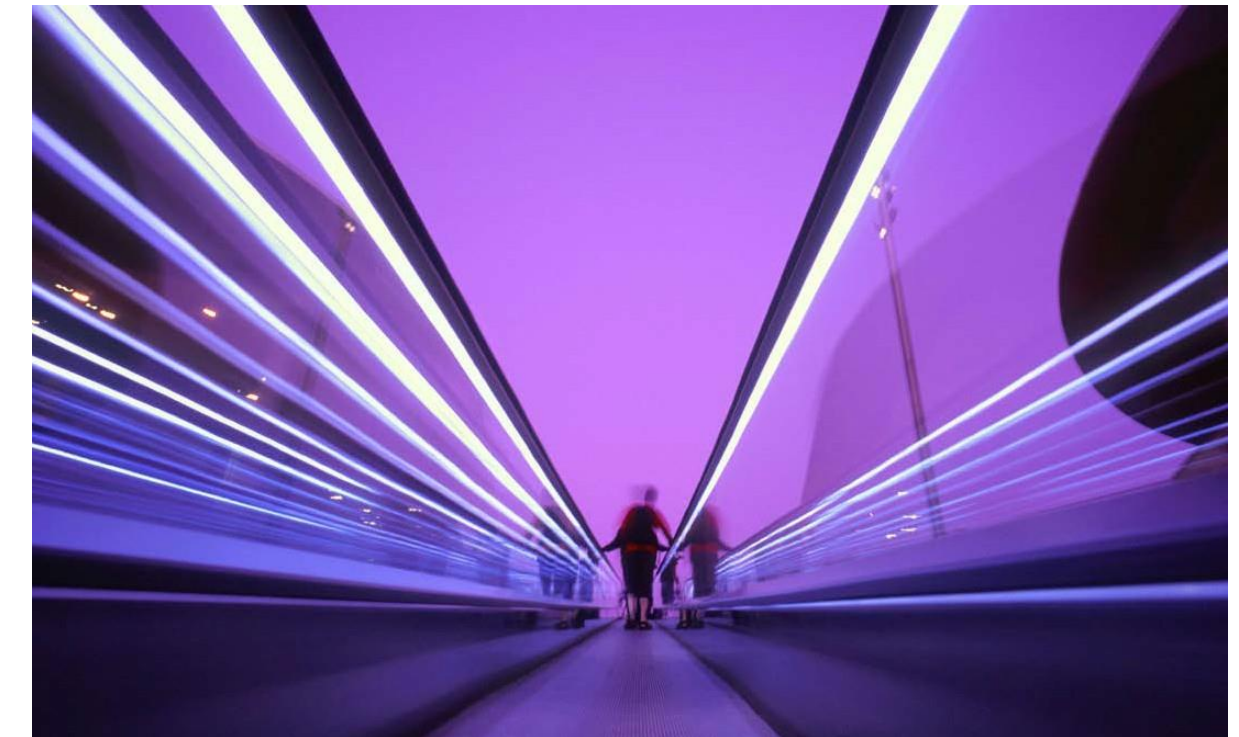
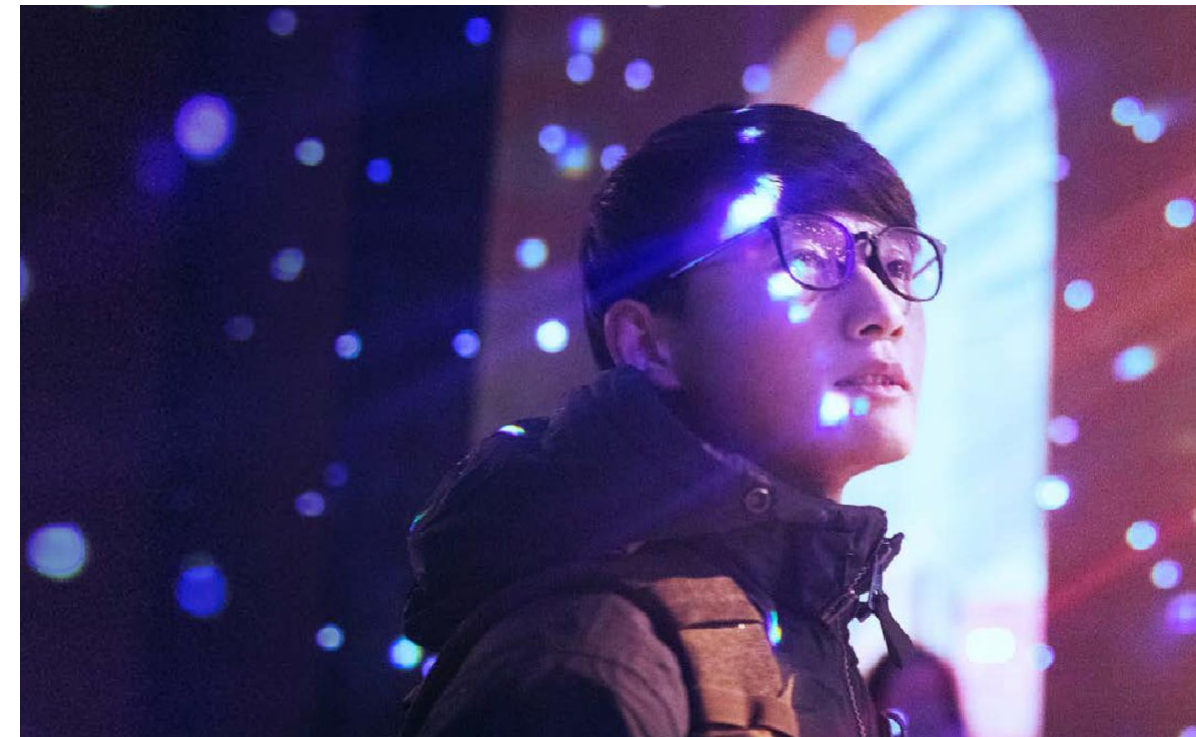
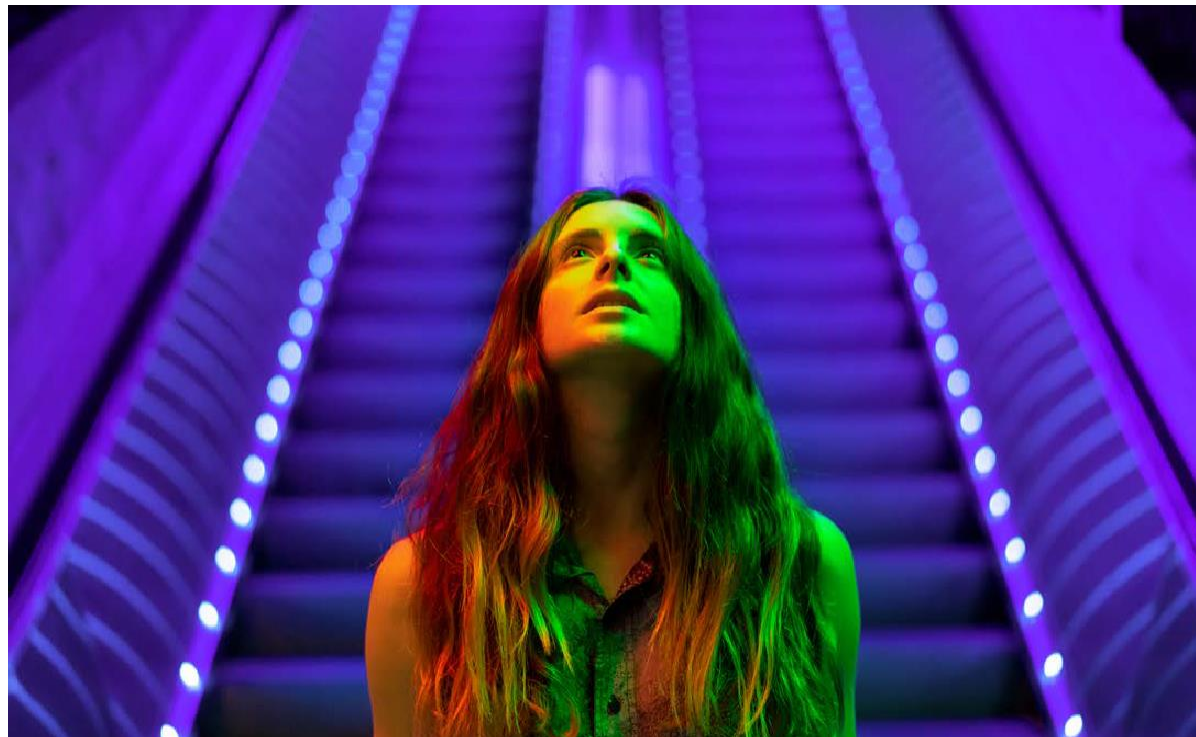
To explore these questions, we drew on our industry knowledge and broad understanding of disruption to create a vision for border services in 2030. This vision is grounded in insights from 5,000 international travellers including 739 Canadians, 1,000 importers and exporters of which 10% are from Canada, nearly 500 global and border agency workers, more than 50 of our border experts, and five of the world's top futurists.⁸

Three trends stand out. They are bound together by what's core to border services — people and goods. Borders are gateways for safe travel and secure international trade. These trends challenge border services to rethink what they do and how they do it in profoundly human terms.



Source: unsplash, unknown

Border services organizations that adapt and respond to these trends are expected to be well-positioned to lead with impact—operating effective and frictionless borders while enabling prosperity and security.



Trend 01

Frictionless by design

Canadian border experiences are frictionless and place people and their end-to-end journey at the center of the design.

Trend 02

From trust to truth

Canadian border service officers have near certainty that people and goods that arrive are who and what they say they are.

Trend 03

Virtual frontiers

The metaverse is a familiar destination—a place that people visit regularly to connect, learn, make purchases, obtain services and conduct business.

Trend 01

Frictionless by design

Frictionless by design is developing rapid and intuitive border experiences, both for individuals, from refugee to CEOs, and for organizations moving goods in and out of a country. It happens by combining a deep understanding of stakeholders with technologies that make the art of the possible—possible. Think of it as meeting the mission with a laser focus on customer service. The goal is not mind-blowing experiences. It is delivering experiences that meet users' need for clarity, consistency, simplicity and predictability when interacting with border services organizations.

Borders are national assets—gateways to economic activity, cultural exchange and shared understanding. But when people and goods cross borders today, the process can be cumbersome. Difficult border experiences often lead to lost revenue and poor international perceptions of “ease” of travelling to, or doing business with, a nation. As a result, some people and businesses go elsewhere.

59% of Canadian travellers tell us that they select their travel or layover destination based on whether they think the experience with border security will be seamless and easy. And 26% have changed their travel or layover destination because they anticipated a difficult border experience.⁹ Canadian importers and exporters act similarly—22% stopped contracts due to a poor experience with customs processes.¹⁰

The vision for tomorrow

By 2030, we imagine that Canadian border experiences are frictionless and fully centered on satisfying the need for a more secure, faster and responsive journey.

59%

Of outgoing Canadian travellers said that they select their travel or layover destination based on whether they think the experience with border security will be seamless and easy

Trend 01: Frictionless by design



Technology has the power to drive a massive shift in experience at the border, helping organizations simultaneously focus on both compliance and experience. Think of it as a fundamental and continuous rethinking of border interactions in a technology landscape we can't yet fully imagine. Given the pace of digital advances, in 2030, smartphones could have embedded holographic projectors, people could be working full-time in metaverse workspaces and supercomputers could have surpassed the human brain's processing power.¹¹ Just imagine the possibilities for border experiences in a world like this.

Fast forward to 2030. Most transactions that travellers and trade chain partners must complete themselves today are preempted in the future as permission to travel/ship is automated and granted ahead of time nearly instantaneously. It's not that compliance disappears. It's that the barriers that make it hard to comply are gone. That's everything from long lines to accessing needed information to confusion due to language barriers. This automation virtually eliminates any unplanned backlogs of applications giving people the freedom to plan their travel.

With automated immigration eligibility activities, security checks, health checks and customs/duty payments happening before arrival, the physical border crossing is a welcoming and orienting space for entering Canada.

Canadian organizations often use automation, artificial intelligence (AI), cloud, data and analytics, machine learning, digital identity, biometrics and blockchain technologies to join up all the pieces of the travel and trade journey, working more collaboratively and creatively across the ecosystem. Processing and validation of people and goods is integrated across multiple organizations (both private and public), including across countries, to address identity verification, taxes, security, health and compliance. In fact, the dynamic and networked trade platforms that some countries are beginning to build to aid trade and compliance are an important step toward this future. Also, the physical checkpoints that do exist are dynamically configured and resourced to accommodate different levels of need.

What to think about today?

It's time to start building the future border workforce. Organizations engaged in activities at Canadian borders should assess workforce skills now to understand how ready they are to enable this predicted experience shift. Both new skills and significant cultural changes are essential.

Today, agents ensure compliance and uphold regulations. In 2030, border workforces will need to balance enforcement with an enhanced customer service ethos. Rather than build experiences based on generic personas, they will need to center their efforts on trade chain partner and traveller mindsets at different phases of the journey.

Border services organizations will need to serve a largely digitally fluent population. This requires interpreting data, training AI and designing personalized, digital experiences that meet stakeholders' needs.

Doing this requires new skillsets and roles—from psychologists and sociologists to digital strategists, data scientists and experience designers. It also takes new approaches to recruitment and learning. This shift will mean competing with (and learning from) other industries and sectors for highly sought-after skills in a very competitive talent landscape. What's more, executive leaders will need to sharpen their partnership skills, building new relationships with diverse organizations who are positioned to actively contribute new and evolving perspectives and solutions.

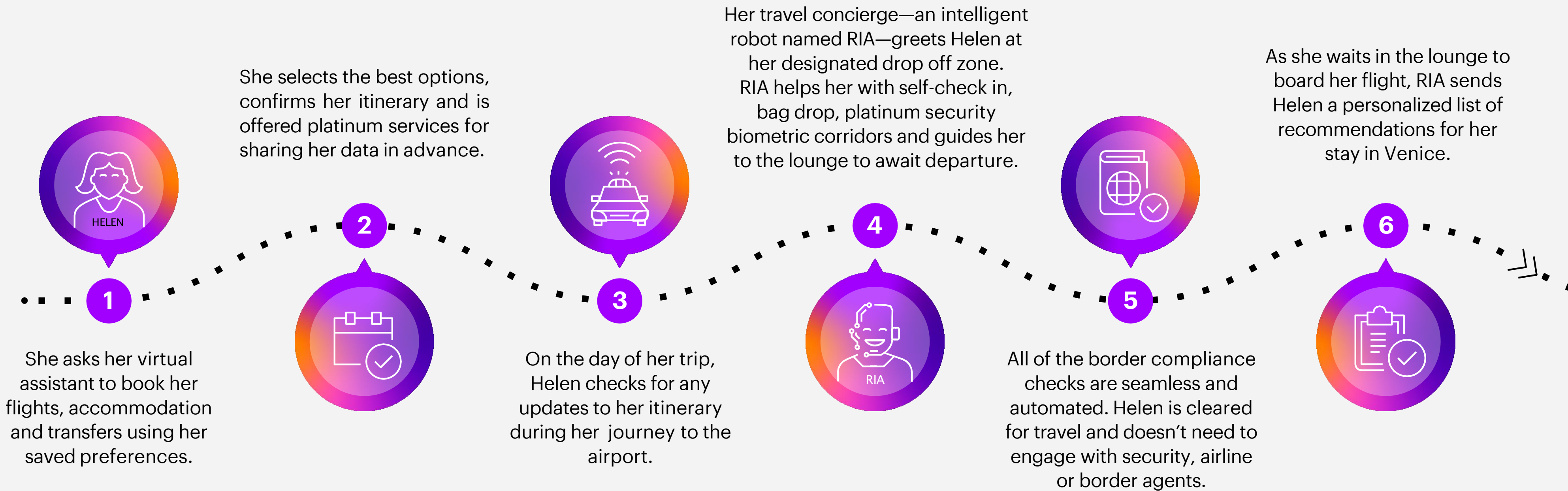


Source: unsplash, Dan Newman

As key as digital technology is to streamlining border experiences, Canadian travellers still appreciate the human touch. In fact, around two thirds still want some form of human interactions at the border in the future.¹²

Imagine it's 2030...

Meet Helen, an entrepreneur living in Toronto in 2030.
Her best friend is getting married in Italy next month.



Trend 02

From trust to truth

From trust to truth is upending the model of securing borders that service organizations have used for years. Instead of trusting that pre-cleared travellers and trade chain partners are being honest about their declarations, organizations can have more certainty about the truth. In addition to assessing the people and goods in front of them, border agents can also assess the relevant data in front of them. Everyone and everything is identifiable and traceable through an expansive view of reliable and easily-accessible good-quality data.

Border service organizations assess the risk of anyone or anything that crosses the border. Agents verify all the information they can, but they don't have the resources to check everything. As such, they don't have full assurance that people are who their credentials say they are, or that containers hold what is listed on customs declarations.

Organizational processes are so extensive and take so long because building trust takes care and time. So it's no surprise that 58% of Canadian trade chain partners tell us that border processes add unnecessarily significant time to shipments.¹³ And 59% of Canadian travellers say that security checkpoint wait times need improvement.¹⁴

The vision for tomorrow

By 2030, we imagine that border services officers at Canadian borders have near certainty that people and goods arriving at the border are who and what they say they are.

Trend 02: From trust to truth



Digital identity is key for more secure and efficient border crossings based on truth. By 2030, the convergence of smart materials, biometrics, internet of things (IoT), blockchain and universal connectivity is likely to have revolutionized identity and supply chain traceability. Organizations involved in border activities should track this revolution—even lead it in some cases. The goal is to bring digital identity data to decision makers. The veracity of the data is absolutely critical. Combining trusted and enriched data from across the ecosystem with emerging technologies, border services can move to extremely high levels of transparency, even truth. And they can do this while making data protection and security a priority. Just imagine how this could change border crossings.

Fast forward to 2030. When travellers arrive at a checkpoint, facial recognition technology powered by advanced biometrics and spoof detection confirms their identity with near complete certainty. Even today, 55% of Canadian travellers agree that facial recognition technology will help make future international travel faster and more seamless.¹⁵

Border inspections of goods are very different too. For example, when agents inspect a container of dresses, they know every detail about the fabric, dyes, manufacturing process and shipping route. They can confirm that the garments' carbon footprint meets the regulations, and that unethical labor practices were not involved in making it.

The availability of data evolves in several ways to support this trust to truth strategy. One way is that data is available to organizations before people begin their travel or before companies ship products. Another way is through a “bring your own data” model for people and products. Travellers carry their identity credentials in digital wallets, sharing only the information that is necessary to share. And thanks to IoT and smart materials, products tell their own stories. Data exchange is instantaneous and real-time. Border service organizations don't store the data, and expiration dates for access fulfill data privacy requirements.

What to think about today?

The border has always been a data-rich environment. But the actual value of that data is limited today as it is not always usable and not easily shared. It is often stuck in silos—gathered, stored and trapped due to privacy and competition concerns.

Canadian border service organizations should prepare for a future when they dynamically use and gather data from many sources and partners. Doing this means evolving the data foundation, focusing on data quality, governance and policy. Predictable, usable data from international sources requires a level of standardization that does not currently exist.

Just as the world came together to adopt a passport standard, efficient processes require a common practice for identification, health records, travel history and much more. The goal is to have the data and digital fluency to process people with digital wallets and containers packed with smart products.

There is no doubt that travellers and trade chain partners alike will have to adapt to new ways that organizations access and share data. There will be complex privacy and security issues to untangle. However, it's heartening to know that even today 67% of Canadian travellers are open to border services sharing their data with other government organizations to improve security.¹⁶



79% of Canadian trade chain partners agree that over the next decade, all customs processing and duties and tax settlement will happen away from the border.¹⁷

Imagine it's 2030...



Trend 03

Virtual frontiers

Virtual frontiers relates to how the emergence and acceleration of the metaverse impacts borders. The metaverse is an evolution of the internet that enables us to move beyond “browsing” to “participating and/or inhabiting” in a persistent shared experience that spans the full spectrum of our real world to a fully virtual world and in between.¹⁸ This emerging world is poised to redefine the notion of borders as cross-border comes to include physical and virtual destinations.

When digital commerce was in its early days, border service organizations had to quickly adapt ways to protect society and support economic growth. They did it with zero precedent. The metaverse is likely to require similar action. It's a wholly new channel of interaction for business-to-consumer, business-to-business, business-to-government and government to citizen trade. It's uncharted territory that raises many complex questions that we cannot begin to fully answer.

How are products taxed when they aren't physical at the point of purchase?
What are the immigration implications of a virtual trip? If people work virtually with a team in another country, do they need a work visa?
Do national borders even exist in the metaverse?

The vision for tomorrow

By 2030, we imagine that the metaverse is a familiar destination—a place that international travellers, immigrants and Canadians visit regularly to connect, learn, make purchases, conduct business and obtain services.

The metaverse is already so much more than a virtual playground. Its evolution can be expected to drive reinvention of platforms, business models, partnerships, consumerism and more. Some aspects of tourism, immigration and commerce could move online, supported by digital platforms, tokenization, digital currencies and assets. Just imagine the ripple effect of so much monumental change on public service, let alone border service organizations.

Fast forward to 2030. Travellers can preview destinations, learn about local cultures and augment—or even replace—actual trips thanks to extended reality technology. It’s a whole new form of sustainable, affordable and culturally relevant travel. Virtual tourism pushes border offices into the metaverse, and most countries have entirely virtual functions. Barbados is working now to launch the world’s first virtual embassy in the metaverse. Officials have said the move is one of diplomatic parity—an opportunity for the small island nation to provide the same services as larger, wealthier nations do.¹⁹

With a presence in the metaverse, countries don’t need as many in-country, customer-facing customs, immigration and visa offices. Canadian travellers are already prepared to conduct this business virtually—61% prefer to apply for immigration and visas digitally rather than in-person.²⁰

Border service organizations also turn to the metaverse for training the workforce. Immersive experiences and interactive scenarios can help agents improve their decision-making skills. And the metaverse hosts multi-agency collaboration events to support mission readiness. The logistical barriers that make such complex collaboration difficult today disappear. And organizations get valuable experiences and insights quickly, with less expense and risk.

What to think about today?

Metaverse transactions are happening today. Instead of waiting for organizations with lesser intentions to write the playbook, border service organizations should take an active role in shaping cross-border transactions in the metaverse.

While border services organizations don't have the sole responsibility for determining how the metaverse will evolve in public service, they do have a role to play. As such, it is key for border service organizations to work with other government organizations to ensure a cohesive metaverse experience for visitors, traders and citizens—and guide the development of regulations. Doing this is key to potentially protecting public safety and strengthening cybersecurity while taking full advantage of revenue growth opportunities.

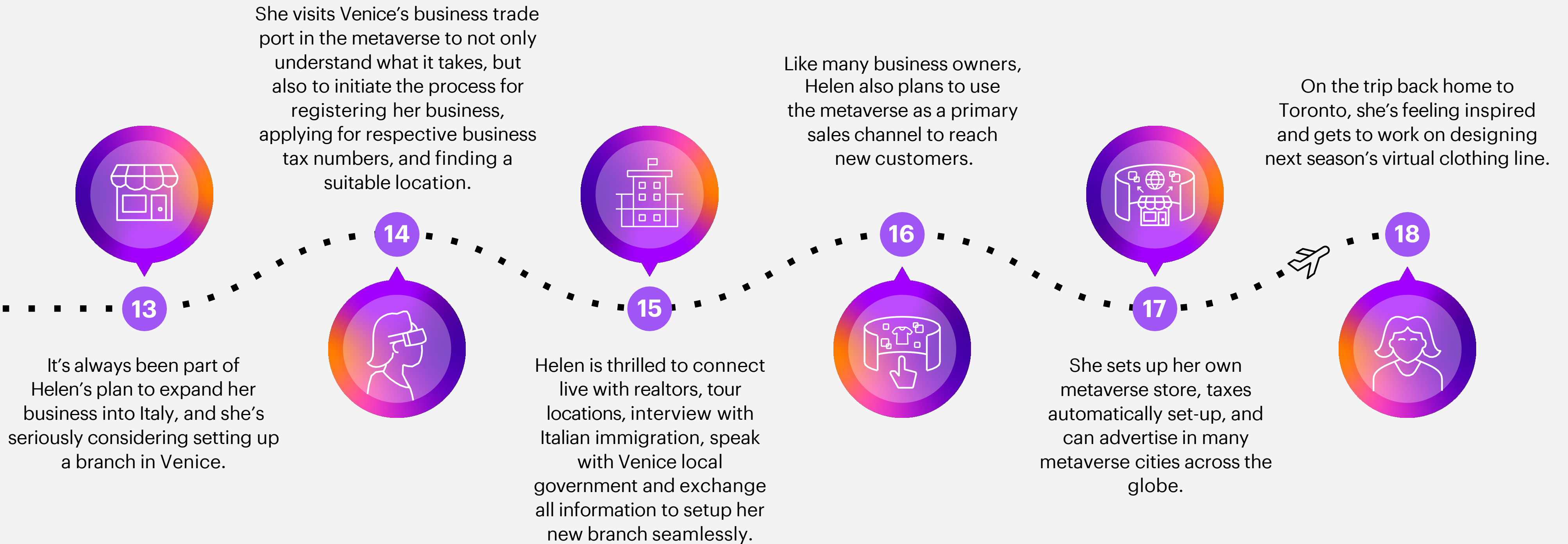
It's also in line with efforts related to monitoring illicit marketplaces like the dark web.

At the same time, organizations should begin building a digital twin of the ecosystems they regulate and facilitate. Digital twins are one natural and important point of entry to the metaverse. By 2030, entire global supply chains and migration flows could be managed by massive data doubles that mirror reality. Digital twins make greater automation in inspections, better scenario planning and improved forecasting possible, to allow the border services organizations to allocate efficiently its critical frontline talent on non-compliant behaviours, interdictions of illegal shipments or people crossing our border, all while keeping Canadian safe.



70% of global public service executives believe that the metaverse will have a positive impact on their organization. Half believe it will be a breakthrough or transformational impact.²¹

Imagine it's 2030...





The world keeps moving; so will border services

We envision 2030 as a very different time for border service organizations. Of course, physical borders to mark sovereignty will remain. But shifts in technology and the rise of the metaverse are likely to influence the very notion of borders. As accustomed as border services are to managing through disruption, this is a fundamental shift for the sector.

Canadian border services organizations should adapt to this environment to lead with impact. Everything from the purpose of these organizations to the roles, skills, policies, partnerships and operating models should shift significantly.

While this next decade promises to be one of extensive changes, it also has the potential to be tremendously exciting for border service employees, travellers and trade chain partners.

Border service organizations that reinvent how they work on profoundly human terms—redesigning experiences, acting on truth and leading in the metaverse—will bring new opportunities to their nation. More economic competitiveness. More cultural awareness. More safety and security. More mission success. It all starts by taking steps to turn the vision into reality.

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About the Research

To best understand the future of border services in 2030, Accenture conducted several primary qualitative and quantitative research initiatives. In March 2022, Accenture conducted two online surveys (Global Traveler Survey and Global Trader Survey) spanning nine countries: Australia, Canada, Finland, France, Germany, Saudi Arabia, Singapore, United Kingdom, and the United States. For the Global Traveler survey, the 5,000 respondents included those who had traveled internationally at least once in the last four years. The Global Trader survey included 1,000 exporters and/or importers.

Additionally, Accenture interviewed five of the world’s leading futurists: women and men who publish and advise organizations on long-term future scenario planning. To help shape this paper, Accenture sourced and tested ideas from our more than 1,000+ border industry global practitioners. Lastly, this work builds on sub-industry cuts of previously published global surveys, including a Public Sector Worker survey conducted in 2020 of 500 border, immigration and customs workers across five countries (Australia, Germany, Singapore, United Kingdom and the United States).

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