



JOINT SESSION
between
Public Sector Chief Information Officer Council (PSCIOC)
and
Public Sector Service Delivery Council (PSSDC)
and
CIO Strategy Council (CIOSC)

Thursday, September 26, 2019
1:00pm – 4:00pm (CDT)

Delta Hotel Winnipeg
350 St. Mary Ave. ▪ Winnipeg, MB ▪ R3C 3J2

Meeting Room: Delta AB

Thursday, September 26 th	
1:00pm - 1:05pm	<p>Welcome and roundtable introductions</p> <p><i>Session co-chaired by the CIO Strategy Council, Public Service Chief Information Officer Council, and Public Sector Service Delivery Council.</i></p> <p><u>Objectives:</u></p> <ul style="list-style-type: none">• <i>Exchange and transfer of knowledge and expertise between public and private sector CIOs and technology leaders across all sectors of the economy.</i>• <i>Create intellectual capital to shape and influence debate and lead to collective actions that advance responsible IoT, data governance, identity management, and security innovation.</i>• <i>Augment public and private sector trust and identify collaborative IoT and data sharing standards projects, use cases, pilots, and proofs of concepts enabling public and private sector innovation.</i>
1:05pm - 2:15pm	<p>Part 1: Responsible Internet of Things (IoT)</p> <p><i>As the ubiquitous nature of connected sensors and endpoints increases, questions surrounding security, data collection, privacy, use and trust are becoming central to conversations regarding the future of Canada's IoT ecosystem. The explosive growth of IoT is posing significant risks to network infrastructure and to everything attached to it.</i></p> <p><i>IoT represents a massive and growing security risk to critical infrastructure as connected devices are coming online across all sectors of the economy, whether in transportation systems, banking, or in healthcare, as prime examples. Closing off these IoT security and privacy risks is critical to avoid a cascade of consequences such as:</i></p> <ul style="list-style-type: none">• <i>Impacts on healthcare services and life-saving equipment;</i>

	<ul style="list-style-type: none"> • Breakdowns in transportation networks or in accessing goods and services that ensure the well-being of Canadians; • Shutting down cities and causing irreversible damage to public safety; and • Damages to democratic institutions and the effective functioning of government. <p><i>This session will explore the challenges CIOs and technology leaders face, from the introduction of new technologies (i.e., 5G, distributed ledgers and AI) to gaps in data governance (i.e., data discovery, ownership, residency, ethics and safe use). It will address key considerations in devising new standards, protocols and best practices to protect consumer privacy and to secure data assets without stifling IoT-related innovation.</i></p> <p><u>Panel Speakers:</u></p> <ul style="list-style-type: none"> ▪ Keith Jansa, Executive Director, CIO Strategy Council (moderator) ▪ Mike Monteith, CEO, Thoughtwire ▪ Kurtis McBride, CEO, Miovision ▪ Andy Best, Executive Director, Open City Network ▪ Shelley Fraser, Director, Marketing, Communications and Community Engagement, Lixar ▪ Lawrence Eta, Deputy CIO – I&T, City of Toronto ▪ Jean-Noé Landry, Executive Director, Open North
2:15pm - 2:30pm	Break
2:30pm - 3:45pm	<p>Part 2: Responsible Data Sharing</p> <p><i>There are compelling reasons for organizations to share data, from improving operational efficiencies and reducing business costs to generating new insights and making better business decisions. Failure to adhere to responsible data protection and sharing practices, however, can lead to serious consequences, from threats to an organization’s reputation and brand to its viability – a single GDPR fine can wipe out a business.</i></p> <p><i>Growing privacy breaches from inadvertent data misuse and unauthorized access is becoming an increasingly pervasive issue for governments and businesses alike. Even the most well-established organizations have fallen victim to data insecurity in recent years. While some consumers show their anger and frustration through opt-out measures, this is in no way a long-term solution.</i></p> <p><i>CIOs and technology leaders have a critical role to play in providing much-needed leadership and action in addressing the erosion of public trust. This session will focus on the growing demands in re-examining data protection and exchange protocols to account for data-in-motion, at-rest and in-use within and between organizations, systems and verticals. It will address several adjacent and sometimes overlapping domains, namely security, as well as identity, privacy, confidentiality, integrity, stewardship, residency, and regulatory compliance where CIOs are more than ever having to move away from simply managing technology to managing business outcomes.</i></p> <p><u>Panel Speakers:</u></p>



	<ul style="list-style-type: none">▪ <i>Keith Jansa, Executive Director, CIO Strategy Council (moderator)</i>▪ <i>Nandini Jolly, CEO, CryptoMill</i>▪ <i>Mark Alexiuk, Founder & CTO, Sightline Innovation</i>▪ <i>Andre Loranger, Assistant Chief Statistician, Statistics Canada</i>▪ <i>Paul Vallée, CEO, Tehama</i>▪ <i>Neil Butters, Digital Identity, Innovation & New Ventures, Interac Corporation</i>▪ <i>Wellington Holbrook, Chief Transformation Officer, ATB Financial</i>▪ <i>Mike Cook, CEO, Identos</i>
3:45pm - 4:00pm	<p>Wrap Up and Next Steps</p> <p><u>Proposed Outcome of Session:</u></p> <p><i>Support in taking reasonable and timely steps to devise a mutually beneficial workplan between the Public Sector Chief Information Officer Council and CIO Strategy Council to further elevate the level of discussion, partnership, thought leadership and collective action in advancing responsible IoT and data sharing, particularly as it concerns:</i></p> <ul style="list-style-type: none">• <i>The development of standards and public policy for data ownership, interoperability, safe use, trustworthiness, cybersecurity, sovereignty and residency, identity management, etc.; and</i>• <i>The identification and realization of use cases, pilots, proof of concepts and full-scale implementations of responsible IoT and data sharing cross-sector (e.g., public-private) and industry verticals (e.g., smart cities, critical infrastructure).</i>

Speakers



Mark Alexiuk, Chief Technology Officer, Sightline Innovation

Mark Alexiuk (PhD, PEng) is the CTO of Sightline Innovation. Mark provides leadership to the product development and solutions teams. SIMON, the applied machine learning platform, has delivered solutions into various industries (manufacturing part identification and defect detection, fraud analysis, disease susceptibility analysis, and satellite analysis for civil infrastructure risk assessment). SID is a data trust and complements SIMON. SID leverages software defined wide area networks (SDWANs), zero-trust networking and smart contracts to establish a secure marketplace for digital assets (datasets, AI models and business insights) within a data governance and data sovereignty environment.

Mark Alexiuk (PhD, PEng) is a graduate of the University of Manitoba electrical and computer engineering program. His graduate work involved statistical pattern recognition and bioinformatics. Experience in the medical device industry and hospital information systems provided him with opportunities in rapid prototyping, intellectual property, master data management, regulatory submissions, patient privacy, ethics review, change management, project management and cross-functional team leadership.



Andy Best, Executive Director, Open Cities Network

Andy Best is the Executive Director of the Open Cities Network, a not-for-profit that's building a cities-first approach to smart city partnerships. The OCN advocates for open architecture, more regulation of smart cities, for the public sector to retain the value of public data, and for increased investments in digital and cultural transformation. Its primary work is to build digital public infrastructure, with a focus on regulatory modernization, innovation policy and governance.



Neil Butters, Director, Products & Platforms, Interac Corporation

Neil's experience as an innovator and executive has helped him thrive in the identity and payments industries for over 25 years. Now, he combines his areas of expertise as the Director of Products and Platforms at Interac, focused on developing a solution to deliver secure, convenient identification for the digital economy. Neil is a sought after thought leader, available to discuss the need to re-evaluate the way we identify and authenticate ourselves in the digital economy, and how using existing technology such as the Interac Token Service Provider allows Interac to provide a layered approach to security and privacy as fundamental design principles.



Mike Cook, CEO, Identos

Mike Cook opened and has led the IDENTOS Canadian operations since it's opening over 5 years ago. With experience managing and leading software development teams, including over a decade in the telecommunications space, Mike brings a unique vision for enabling secure digital identities in a mobile world. A computer engineer with an MBA, Mike's strategy is to build never before seen solutions to modern day problems against a sustainable and scalable model. Mike has led IDENTOS as it has grown to a profitable, 50+ person organization with offices and staff in 5 unique locations.



Lawrence Eta, Deputy Chief Information Officer, City of Toronto

Lawrence Eta is the Deputy Chief Information Officer for the City of Toronto. Lawrence provides strategic leadership modernizing the City's Technology Infrastructure supporting the divisions deliver resident centric solutions. He is also responsible for leading Smart City and emerging technologies of AI and Blockchain.

Over the span of his career Lawrence has been involved in a wide range of technology industries, holding various senior leadership positions including, Global Director of Customer Success within the Internet of Things (IOT) sector, Vice President of Technical Architecture and Director of Business Technology Solutions for an international business process outsourcing organization and Director of Information Services for one of Canada's top 60 pension and benefits plans. A successful track record of leading large transformative business and technology initiatives, he excels at leading organizations technology transition in delivering services in an evolving global environment.



Shelley Fraser, Director, Marketing, Communications and Community Engagement, Lixar

I'm Shelley, a founder at Lixar IT and I lead the Lixar Creative Hub which includes: Marketing, Communications, Culture, & Community Engagement. I have to say, I love what I do! I get to work at a dynamic company that values purposeful ideation, positive organizational culture & meaningful community connections with organizations such as the Boys & Girls Club Ottawa, Kids Help Phone, MEGAPHONO music festival, HPX & Polaris Music Prize.

Lixar believes in creativity & innovative approaches.

Lixar is a Premier AI and Data company. What makes us unique is our foundation that is built on 20 years of connected enterprise-scale experience in development, data, IoT intelligence & cloud. Simply said, we deliver Data-driven software development with a lot of specialization and expertise.

My personal experience is primarily working in the tech sector but it is paired with an education and background in business, marketing and politics.

That said, I am a super proud Canadian. Love what Canada has to offer coast-to-coast and I take every opportunity I can get to hike, bike, paddle, ski or experience all of its bounty. My door is always open to friends old and new to experience the joy of Canadian adventure and Canadian-style human kindness.



Wellington Holbrook, Chief Transformation Officer, ATB Financial

ATB's chief transformation officer, Wellington Holbrook, has a big mandate: to reimagine the future of banking and make sure that customers are at the centre of everything ATB does. In order to achieve this, Wellington has set ATB on a rapid course of digital transformation which has attracted an allstar team of technology and innovation

leaders. Since beginning this process in September 2016 ATB has been recognized as an emerging tech leader in financial services by global giants like Google and IBM. Wellington has spent almost 25 years making banking work for people with his goal to make a positive impact on the world.



Keith Jansa, Executive Director, CIO Strategy Council

Keith Jansa is the Executive Director of the CIO Strategy Council. He works with Canada's most forward-thinking public and private sector Chief Information Officers to collectively address the pace of digital transformation and advance Canada's position in the global digital economy. In his previous role as Vice President of Standards and Innovation, Keith provided executive leadership in the design and

successful accreditation of the Council's standards setting process by the Standards Council of Canada to drive the creation of national standards to advance Canada's digital economy.

Recently, Keith was appointed a director to the Board of Innovate Cities, a not-for-profit organization that brings together a network of Canadian innovation leaders to create safer, more accessible, energy-efficient spaces that benefit all citizens, while delivering economic diversification and job creation.



Nandini Jolly, Founder, President and CEO, CryptoMill Cybersecurity Solutions

Nandini Jolly is the Founder, President, and CEO of CryptoMill Cybersecurity Solutions, a proudly Canadian company that provides data-centric encryption to protect sensitive information from external hacks and internal leaks. Receiving her Masters in International Finance and a Bachelor's Degree in Economics from the London Business School, England; Nandini is a passionate advocate for security and privacy in the digital age.

Nandini has led CryptoMill Cybersecurity Solutions to powerful partnerships, most notably with HP Worldwide. Alongside her team of engineers, they created an exclusive encryption program that was bundled with 40 million HP device in 34 languages.

Trailblazing her own path, Nandini has made fostering a culture of collaboration and learning a priority at CryptoMill. She has passionately spearheaded the CryptoMill Co-Op program where students from educational institutions such as the University of Toronto and Waterloo have enabled the opportunity to receive real-world experience working alongside industry veterans and forming valuable connections for their burgeoning careers.

Prior to founding CryptoMill, Nandini served as the Senior Vice-President of Global Treasury Services and Financial Risk Management for the Bank of America. Nandini's career path in the financial sector also included the role of Director at Deloitte and Touche where she was a part of the National Financial Services Industry Group for Risk Management.

As a Privacy Design Ambassador, Nandini is a co-author of several white papers including "Embed Privacy & Security by Design to Gain a Competitive Advantage" with Dr. Ann Cavoukian, the former Information and Privacy Commissioner of Ontario and current Distinguished Expert-in-Residence at Ryerson University.

In 2013, Nandini was named one of Canada's 100 Most Powerful Women in 2013 by the Women's Executive Network (WXM) for her business determination, technical innovation, and breaking new ground in a male-dominated industry. Nandini's accolades also include being featured by the Government of Canada's Status of Women in Canada, led by the Honourable K. Kellie Leitch as someone whose entrepreneurial spirit has influenced the Canadian business world.

Nandini finds her strength to continue on the 'road less traveled' by sticking to her manta, Gandhi's philosophy of 'being the change you want to see in the world'. Her work as a mentor has inspired women and entrepreneurs throughout Canada.



Jean-Noé Landry, Executive Director, OpenNorth

Jean-Noé Landry is a social entrepreneur and the Executive Director of OpenNorth, Canada's leading non-profit organization specializing in open governance. As an open data expert, he facilitates multi-sectoral partnerships in data governance, promotes data standardization and connects governments with different data user communities.

Initially rooted in the civic tech community, OpenNorth now offers three types of activities: a personalized consulting service for smart and open cities and communities across Canada funded by Infrastructure Canada; the Applied Research Laboratory (ARL) and an international program funded by the National Democratic Institute.

Jean-Noé has led OpenNorth to collaborate with international institutions and networks of practitioners such as the Open Government Partnership (OGP), the National Democratic Institute (NDI), as well as the Open Data Charter and the International Development Research Centre (IDRC). These contributions are regularly solicited by researchers and governments alike, including the Open Data Institute (ODI), the World Wide Web Foundation, the United Nations Human Settlements Programme (UN-Habitat), and the International Open Data Conference (IODC).

Jean-Noé is a member of the Government of Canada's Multi-Stakeholder Forum on Open Government, a founding member of the Board of Directors of SynapseC, a fellow of the Centre for Law, Technology and Society at the University of Ottawa's Faculty of Law, and a member of the Standards Council of Canada's Data Governance Working Group.



André Loranger, Assistant Chief Statistician of Analytical Studies, Methodology, and Statistical Infrastructure, and Chief Data Officer, Statistics Canada

André Loranger is currently the Assistant Chief Statistician of Analytical Studies, Methodology, and Statistical Infrastructure. He is also Statistics Canada's Chief Data Officer.

André, an economist with an M.A. (Economics) degree from the University of Ottawa, began his career in the public service at Statistics Canada in 1997 where he spent most of his career compiling estimates of GDP. Prior to his current position, André was the Director of Producer Prices Division from 2008 to 2012 and the Director General of the Macroeconomic Statistics Branch from 2012 to June 2013. More recently, he was the Assistant Chief Statistician for Economic Statistics responsible for the key economic indicators (CPI, GDP, etc.) produced by Statistics Canada.

In recent years, André has been involved in international projects related to statistics on the services sector and prices. André is currently a member of the United Nations Committee of Experts on Environmental-Economic Accounting and a member of the United Nations Expert Group on International Trade and Economic Globalization Statistics. He also participates in various other international statistical working groups.



Kurtis McBride, CEO, Miovision

Kurtis McBride is CEO and co-founder of Miovision, a technology company that provides cities with the data and tools they need to reduce traffic congestion, make better urban planning decisions, and improve safety on their roads. Under Kurtis' leadership, Miovision has provided the data and insights to improve traffic flow in over 13,000 municipalities worldwide. Kurtis holds a Masters of Engineering in Systems Design from the University of Waterloo.



Mike Monteith, CEO, Thoughtwire

As a seasoned entrepreneur and technology executive with more than 20 years of experience serving the public and private sectors, Mike has established himself as one of Canada's leading experts in information technology for the built environment. Capable of bridging the gap between business innovation and IT, Mike is solving the challenge of integration and interoperability in healthcare and commercial real estate settings. Prior to founding ThoughtWire in 2009, Mike was a senior advisor and technology consultant, where he acquired expertise in business and enterprise strategy, IT strategy, enterprise architecture, and large-scale program implementation.



Paul Vallée, CEO, Tehama

Paul Vallée is the founder and CEO of Tehama, the leading SaaS platform for compliant and secure virtual desktops on the cloud.

Paul launched Tehama in 2018 under its parent company Pythian, a cloud and data services business he co-founded in 1997.

Under Paul's leadership, Pythian has grown to a 400-person company operating in 35 countries. In recognition of Pythian's rapid growth and success, Paul was named in 2011 to Ottawa's "Forty under 40" by the Ottawa Business Journal. In 2014, he received the Trudeau Medal from his alma mater, the Telfer School of Management at the University of Ottawa. In 2019, Pythian won the Google Cloud Platform Partner of the Year Award for Data Analytics.



- FINAL -

Paul is a sought-after speaker who is recognized for his support of progressive causes, including gender equity in technology. For his efforts in countering the industry's "bro culture," Paul was named 2016's Diversity Champion by Canada's Women in Communications & Technology. Paul is active in the Council of Canadian Innovators, the CIO Strategy Council, and he serves on the board of the Basic Income Canada Network.