

# Data Conference 2020

Unlocking the Power of Data



February 13-14, 2020



Government  
of Canada

Gouvernement  
du Canada

Canada

# Data Conference 2020

## Unlocking the Power of Data

### DETAILED AGENDA - February 13, 2020

<b>7:30 am to 8:30 am ARRIVAL &amp; REGISTRATION</b>		
1	8:30 am Canada Hall 1	<b>Masters of ceremonies: Welcome</b> <ul style="list-style-type: none"><li>• Zoë Tupling, Senior Digital Policy Analyst, Data Strategy and Innovation, Department of National Defence</li><li>• Isa David, Learning Advisor, Canada School of Public Service</li></ul>
2	8:35 am Canada Hall 1	<b>Indigenous welcome</b> <ul style="list-style-type: none"><li>• Rachèle Prud-homme</li></ul>
3	8:50 am Canada Hall 1	<b>Departmental co-hosts: Welcome</b> <ul style="list-style-type: none"><li>• Taki Sarantakis, President, Canada School of Public Service</li><li>• Gordon Venner, Associate Deputy Minister, National Defence</li></ul>
4	9:05 am Canada Hall 1	<b>Opening remarks</b> <ul style="list-style-type: none"><li>• Ian Shugart, Clerk of the Privy Council and Secretary to the Cabinet</li></ul>
<b>9:30 am to 9:35 am Transition (5 min)</b>		
<b>5 9:35 am to 10:35 am CONCURRENT SESSIONS</b>		
5A	9:35 am to 10:35 am  Canada Hall 1	<b>PANEL [DS04]</b> <b>Digital Nations: Estonia, the United Kingdom and Uruguay Talk Data</b> <p>Canada is proud to be chairing the Digital Nations for 2020. The organization is a network of ten of the leading digital countries around the world. At the recent meetings in Uruguay in November 2019, the organization endorsed the Data 360° Declaration. In this session, moderated by the Treasury Board of Canada Secretariat, we will hear more about some of the leading data approaches from around the world, including Estonia, Uruguay and the United Kingdom.</p> <ul style="list-style-type: none"><li>• Laura Rodriguez, Deputy Chief Technology Officer and IT Chief Architect, AGESIC, Oriental Republic of Uruguay</li><li>• Ott Velsberg, Chief Data Officer, Government of Estonia</li><li>• Sam Roberts, Senior Policy Adviser, Open Government, Department for Digital Culture Media and Sport, United Kingdom</li><li>• Moderated by Olivia Neal, Executive Director, Digital Change, Treasury Board of Canada Secretariat</li></ul>



5B	9:35 am to 10:35 am Room 215	<p><b>PANEL [F07]</b> <b>Data Strategies: How are they being rolled out? What are we learning?</b></p> <p>A panel of select federal departments shares how they are rolling out of their respective data strategies, what they are learning, and their data journeys.</p> <ul style="list-style-type: none"> <li>• Sheriff Abdou, Chief Data Officer, Public Health Agency of Canada</li> <li>• Kara Beckles, Director General, Research and Analysis, Agriculture and Agri-Food Canada</li> <li>• Nicole Frenette, Director, Policy Research Group, Canadian Heritage</li> <li>• Gillian Dawson, Director, Business Renewal and Enterprise Architecture Directorate, Health Canada</li> <li>• Tom Dufour, Director General, Strategic Data Management Branch, Statistics Canada</li> <li>• Moderated by Alain Beaudoin, Assistant Secretary to the Cabinet, Privy Council Office</li> </ul>
5C	9:35 am to 10:35 am Room 210	<p><b>PRESENTATIONS [F05]</b> <b>AI Governance and Ethics in Practice</b></p> <p>There are a number of policies and frameworks providing guidance on how artificial intelligence (AI) should be deployed responsibly. But what does this look like in practice? In this session, three departments will provide concrete examples of how they use real AI applications responsibly, and the checks they have put into place to ensure that their systems are being operated for the benefit of Canadians.</p> <ul style="list-style-type: none"> <li>• Data Governance for AI: The Future is Now [Immigration, Refugees and Citizenship Canada]</li> <li>• Solutions Fund Project: Systematic Review Approaches and the Use of AI in Human Health Risk Assessment [Health Canada]</li> <li>• Solid Governance Enables Both Data Benefits and Preservation of Human Rights [Statistics Canada]</li> </ul>
5D	9:35 am to 10:35 am Room 213	<p><b>SPEAKER [S01]</b> <b>Understanding Citizens in the Digital Ecosystem: What Digital Data We Have and How We Might Use It</b></p> <p>Elizabeth Dubois, Faculty, Centre of Law Technology and Society, University of Ottawa</p> <p>Building from the Connected Canada conference and the Digital Ecosystems Research Challenge, this session will discuss the impacts of digital technologies on political and civic life of citizens. The work aims to establish a research and policy agenda which responds to ethical, technical, and legal constraints related to digital trace data.</p>
5E	9:35 am to 10:35 am Room 214	<p><b>SHOWCASE [A11]</b> <b>Data Science Accelerators &amp; Digital Innovation</b></p> <p>View demonstrations from organizations across government that accelerate data science and demonstrate different levels of maturity applying artificial intelligence, machine learning and other digital innovations to enable real decision making.</p> <ul style="list-style-type: none"> <li>• Connecting Canada's Business Registries [Innovation, Science and Economic Development Canada]</li> <li>• Multi-Stakeholder Data Program Building [Statistics Canada]</li> <li>• Artificial Intelligence Projects in ESDC [Employment and Social Development Canada]</li> </ul>

		<ul style="list-style-type: none"> <li>• Veterans Affairs Move to Agile Data Delivery [Veterans Affairs Canada]</li> <li>• Algorithmic Impact Assessment [Treasury Board of Canada Secretariat]</li> <li>• Agro-Climate, Geomatics and Earth Observation [Agriculture and Agri-Food Canada]</li> <li>• In-Season Crop Estimation from Satellite Imagery Using Statistical Methods [Agriculture and Agri-Food Canada]</li> <li>• Cloud Based Enterprise Business Intelligence &amp; Data, and Analytics (eBIDA) [Transport Canada]</li> <li>• Unleashing the research value of IRCC Data [Immigration, Refugees and Citizenship Canada]</li> </ul>
<b>10:35 am to 10:50 am Transition, Coffee/Tea and Health Break (15 mins)</b>		
<b>6</b>	<b>10:50 am to 11:50 am CONCURRENT SESSIONS</b>	
6A	10:50 am to 11:50 am  Canada Hall 1	<p><b>PANEL [A04]</b> <b>International Perspective on AI: Human Rights and Security</b></p> <p>A discussion on the international context of artificial intelligence in formal (United Nations) and informal (Global Partnership on AI) multilateral forums including human rights and how these may impact domestic responsibilities.</p> <ul style="list-style-type: none"> <li>• Samuel Marleau Ouellet, Director, Artificial Intelligence Hub, Innovation, Science and Economic Development Canada</li> <li>• Ashley Casovan, Executive Director, AI Global</li> <li>• Vik Pant, Chief Scientist and Chief Science Advisor, Natural Resources Canada</li> <li>• Moderated by Philippe-André Rodriguez, Senior Policy Advisor, Global Affairs Canada</li> </ul>
6B	10:50 am to 11:50 am  Room 215	<p><b>PANEL [A09]</b> <b>Accelerating Data Science in the Government of Canada</b></p> <p>Government of Canada departments and agencies increasingly leverage data science as part of their operations and to support decision making. But even departments with a long tradition of data analysis are facing multiple challenges in establishing modern data science capabilities. It is important to use the latest tools and techniques available for data science to have the greatest impact on government business and policies. Certain departments have taken the initiative to establish data science accelerator teams. A few will share their experiences and lessons learned over the last few years.</p> <ul style="list-style-type: none"> <li>• Yvan Gauthier, Acting Director General, Analytics Support Centre, Department of National Defence</li> <li>• Jeff Carr, Director of Data Science, Employment and Social Development Canada</li> <li>• Christie Sambell, Unit Head, Enterprise Statistics, Statistics Canada</li> <li>• Moderated by Monica Pickard, Section Chief, Statistics Canada</li> </ul>

6C	10:50 am to 11:50 am Room 210	<p><b>SPEAKER [S02]</b>  <b>Governing Cyberspace During a Crisis in Trust</b>  Aaron Shull, Managing Director and General Counsel, Centre for International Governance Innovation</p> <p>This presentation delves into the economic potential—and vulnerability—of transformative technologies and cyber security. It will show how the Government of Canada can be strategic in managing its data during an era of technological disruption.</p>
6D	10:50 am to 11:50 am Room 213	<p><b>SPEAKER [F02]</b>  <b>Reference Data Management – Improving the Value of Data</b>  Jack McKittrick, Data Architect, Employment and Social Development Canada</p> <p>The capability to share and integrate data from many sources across Employment and Social Development Canada (ESDC) and its partners, is a foundational objective of the ESDC Data Strategy created by the Chief Data Office (CDO). This capability requires consistent use of standardized code sets (reference data) to ensure that data from different systems can be joined on common code values that have the same business meaning. The process of defining, maintaining and implementing such a standard is Reference Data Management (RDM).</p>
6E	10:50 am to 11:50 am Room 214	<p><b>SHOWCASE [A10]</b>  <b>Advanced Analytics, Visualizations &amp; Text as Data Semantic Analysis</b></p> <p>Visit demonstrations from organizations across government on how departments are using data to help make decisions to enable transition, address challenges, provide agility to respond and enhance achievability.</p> <ul style="list-style-type: none"> <li>• Geography of the Cadet Program: Using GIS to increase recruitment and retention [Canadian Armed Forces]</li> <li>• Applying natural language processing (NLP) to Draw Insights from Text Data at Health Canada [Health Canada]</li> <li>• Open GIS for Decision Making at ESDC [Employment and Social Development Canada]</li> <li>• Statistics Canada's Innovation Radar [Statistics Canada]</li> <li>• Marine Transportation Data: Innovative projects for better decision making [Transport Canada]</li> <li>• Justice's Business Analytics System: Integrated corporate data to resolve long-standing and complex business issues [Justice Canada]</li> <li>• A Stock-Take Meeting with the Prime Minister: Using dynamic and interactive digital dashboards in Tableau to outline progress and performance on Prime Minister's key priorities [Privy Council Office]</li> <li>• Measuring Progress: Public Service Renewal (Beyond2020) [Privy Council Office]</li> <li>• Data Governance and Data Quality Strategies for Reporting at IRCC: Real world implementation and lessons learned [Immigration, Refugees and Citizenship Canada]</li> <li>• Bringing Data to Life through Visualizations and Storytelling [Canadian Heritage]</li> </ul>

**11:50 am to 12:40 pm Lunch Break (on-site)**

7	12:40 pm to 1:25 pm Canada Hall 1	<p><b>KEYNOTE [ DS01]</b>  <b>Enabling Smarter Government with Data</b>          Hillary Hartley, Chief Digital and Data Officer, Province of Ontario</p> <p>Join Ontario's first Chief Digital and Data Officer, Hillary Hartley, in a candid conversation about the province's approach to digital transformation, including how it is leveraging data to deliver simpler, faster, and better public sector programs and services.</p>
<b>1:25 pm to 1:30 pm Transition (5 mins)</b>		
8		<p><b>1:30 pm to 2:30 pm CONCURRENT SESSIONS</b></p>
8A	1:30 pm to 2:30 pm Canada Hall 1	<p><b>PANEL [DS06]</b>  <b>Data Across Governments (Federal, Provincial and Territorial)</b></p> <p>A session on the importance of data co-creation and collaboration across all levels of government, this session brings together open government experts from the federal and provincial governments to share their innovative success stories on how they have collaborated to improve open data efforts in Canada. Examples include best practices in data standardization, the benefits of sharing APIs (Application Programming Interfaces) and broader efforts to align provincial data strategies with federal data initiatives.</p> <ul style="list-style-type: none"> <li>• Christine Hagyard, Senior Manager, Ontario Digital Services, Government of Ontario</li> <li>• Steve Gauthier, Director, Open Government and Open Source, Government of Quebec</li> <li>• Mark Burns, Director, E-Services for Citizens, Government of Yukon</li> <li>• Moderated by Melanie Robert, Executive Director, Open Government, Treasury Board of Canada Secretariat</li> </ul>
8B	1:30 pm to 2:30 pm Room 215	<p><b>PANEL [F06]</b>  <b>Data Quality Across the Government: What Does It Mean?</b></p> <p>The panel will discuss the business side of data quality, from privacy protection to fitness for use assessment, from the perspectives of the data producer, the data user and the policy maker.</p> <ul style="list-style-type: none"> <li>• John Walsh, Chief Data Officer, Environment and Climate Change Canada</li> <li>• Martin Beaulieu, Chief of International Cooperation and Methodology Innovation Centre, Statistics Canada</li> <li>• Omar Bitar, Advisor, Office of the Chief Technology Officer, Treasury Board of Canada Secretariat</li> <li>• Moderated by Julie McAuley, Chief Results and Delivery Officer, Innovation, Science and Economic Development Canada</li> </ul>
8C	1:30 pm to 2:30 pm Room 210	<p><b>PRESENTATIONS [S05]</b>  <b>Digital Identity for Individuals and Business</b></p> <p>The Government of Canada's Digital Standard on 'good data stewards' specifically refers to 'single sign-on'. However, many people are still not sure what it is, what it means for you or a business, and how it impacts data management. To answer these questions, we have brought together experts from two departments to talk about current thinking on Digital Identity for Canadian persons and businesses.</p>

		<p>We will discuss the Digital Charter, digital IDs, and the opportunity to support better services to Canadians. We anticipate a lively session and our speakers are well prepared for serious debate.</p> <ul style="list-style-type: none"> <li>• Connecting Canada's Business Registries [Innovation, Science and Economic Development Canada]</li> <li>• Trusted Digital Identity and the Pan-Canadian Trust Framework [Office of the Chief Technology Officer, Treasury Board of Canada Secretariat]</li> </ul>
8D	1:30 pm to 2:30 pm  Room 213	<p><b>SPEAKER [F01]</b>  <b>Critical Views on the Ethics of Artificial Intelligence</b>  Julie Paquette, Co-Director of the Research Centre in Public Ethics and Governance, and Assistant Professor, Faculty of Philosophy, Saint Paul University</p> <p>This presentation will review current research on the ethics of artificial intelligence (AI), discuss algorithmic governmentality as a coherent response, and raise some ethical, economic and political issues around disruptive innovation in the public.</p> <p>Note: This presentation will be provided in French with English slides and bilingual Q&amp;A</p>
8E	1:30 pm to 2:30 pm  Room 214	<p><b>SHOWCASE [A11]</b>  <b>Data Science Acceleration &amp; Digital Innovation</b></p> <p>Visit demonstrations from organizations across government that accelerate data science and demonstrate different levels of maturity applying artificial intelligence, machine learning and other digital innovations to enable real decision-making.</p> <ul style="list-style-type: none"> <li>• Solutions Fund Project: Systematic Review Approaches and the Use of Artificial Intelligence in Human Health Risk Assessment [Health Canada]</li> <li>• Automation of Information Extraction from Financial Statements using Graph-Based Techniques [Statistics Canada]</li> <li>• Using AI for Risk-based Regulatory Enforcement [Environment and Climate Change Canada]</li> <li>• HR GO RH: HR at your fingertips - anytime, anywhere [Department of National Defence]</li> <li>• Data-enabled HR: Chatbot and Public Service Resourcing System (PSRS) Tool [Employment and Social Development Canada]</li> </ul>
8F	1:30 pm to 2:30 pm  Room 214	<p><b>SHOWCASE [A13]</b>  <b>Learning by Doing: Prototyping solutions to real business problems</b></p> <p>One hundred learners from 35 organizations across the public service participated in the Canada School of Public Service's Premium Cohort 2 from October 28, 2019 to January 22, 2020. Participants enhanced their knowledge and skills in design, data, artificial intelligence and machine learning, and DevOps. They explored real business problems in preparation for a two-week practicum where they worked in multidisciplinary teams, identifying and prototyping solutions. In this session, a few of these 15 teams will pitch you their solutions and answer your questions. Let them show you what can be done with the right tools, approaches, attitudes and support.</p> <ul style="list-style-type: none"> <li>• The CRA-Bot: An easy-to-use, self-serve option for user interaction [Canada School of Public Service, Agriculture and Agri-Food Canada]</li> <li>• Old-Age Pensions: Improving Access to Information on Dates of Entry into Canada [Canadian Heritage, Public Service Commission]</li> </ul>

		<ul style="list-style-type: none"> <li>• BIRT (Benefit Instant Response Tool) [Employment and Social Development Canada, Canada Food Inspection Agency, Department of National Defence]</li> <li>• ATIP Efficiencies for Departments using Natural Language Processing [Shared Services Canada, Employment and Social Development Canada, Canadian Nuclear Safety Commission]</li> <li>• Vessel Registration Modernization [Transport Canada]</li> </ul>
<b>2:30 pm - 2:50 pm Transition, Coffee/Tea and Health Break (10 mins)</b>		
<b>9</b>	<b>2:50 pm – 3:50 pm CONCURRENT SESSIONS</b>	
9A	2:50 pm to 3:50 pm Canada Hall 1	<p><b>SPEAKER [F04]</b>  <b>Data Trusts: A Tool for Data Governance, Opportunities and Risks</b>          Sean McDonald, Principal, Digital Public and Senior Fellow at the Centre for International Governance Innovation</p> <p>Data trusts can play a role in ensuring governments guarantee that data required for public services isn't captured by commercial interests or held hostage for shareholder value. When used for governance, data trusts can steward, maintain and manage how data is used and shared — from who is allowed access to it, and under what terms, to who gets to define the terms, and how. This presentation explores how data trusts can involve a number of approaches to solving a range of problems, creating different structures to experiment with governance models and solutions in an agile way.</p>
9B	2:50 pm to 3:50 pm Room 215	<p><b>PANEL [S03]</b>  <b>Government of Canada Cyber Security Infrastructure</b></p> <p>This session offers a strategic discussion of the multi-pronged cyber security threats facing Canada's critical infrastructure and the cross-cutting efforts towards its defence and resilience</p> <ul style="list-style-type: none"> <li>• Rajiv Gupta, Director General-Cyber Defence Capabilities, Director General of the Cyber Defence Capabilities, Communications Security Establishment Canada</li> <li>• Colleen Merchant, Director General, National Cyber Security, Public Safety Canada</li> <li>• Chris Lynam, Director General, National Cybercrime Coordination Unit, Royal Canadian Mounted Police</li> <li>• Moderated by Imraan Bashir, Executive Director, Cyber Security, Treasury Board of Canada Secretariat</li> </ul>
9C	2:50 pm to 3:50 pm Room 210	<p><b>PRESENTATIONS [A08]</b>  <b>Data-Enabled Human Resources</b></p> <p>Hear from three departments on how they are using data to enable recruiting, retention and development of personnel as well as how data could and can enable a more effective human resources product in support of our workforce.</p> <ul style="list-style-type: none"> <li>• The Public Service Commission Macrosimulation: Influencing Policy and Programs Through Data Analytics [Public Service Commission of Canada]</li> <li>• Approaching Phoenix as a Data Challenge [Department of Justice Canada]</li> <li>• Geography of the Cadet Program - Using GIS to increase recruitment and retention [Canadian Armed Forces]</li> </ul>

9D	2:50 pm to 3:50 pm Room 213	<b>WORKSHOP [F10]</b> <b>Design Workshop: A Roadmap to Discover Data</b>  This interactive workshop showcases Discover Data, the second course in the Digital Academy's Discover Series. This session is designed to introduce the course, and prototype course activities to get early participant feedback. <ul style="list-style-type: none"><li>• Mackenzie Kitchen, Analyst, Canada School of Public Service</li><li>• Laura Sanschagrin, Senior Data Analyst, Employment and Social Development Canada</li></ul>
9E	2:50 pm to 3:50 pm Room 214	<b>SHOWCASES [A10]</b> <b>Advanced Analytics, Visualizations &amp; Text as Data Semantic Analysis</b>  Visit with the participants and projects of the Digital Academy and demonstrations from across government that demonstrate how departments are using data to help make decisions to enable transition, address challenges, provide agility to respond and enhance achievability <ul style="list-style-type: none"><li>• Financial, People and Results Data</li><li>• Using Text Analytics to Augment Departmental Correspondence Processes [Agriculture and Agri-Food Canada]</li><li>• Leveraging Regulatory Text with RegNav+ [Environment and Climate Change Canada]</li><li>• Towards DND/CAF Energy-Efficiency and Greenhouse Gas (GHG) Reductions Through Exploitation of Energy Data [Defence Research and Development Canada]</li><li>• A Digital Full Court Press – Digital Transformation at the Tactical, Operational and Strategic Levels [Department of National Defence]</li><li>• Data Science Techniques for Content Mining Environmental and Socio-Economic Assessments (ESAs) [Canada Energy Regulator]</li><li>• Data Visualization of Conditions on CER-Regulated Energy Projects [Canada Energy Regulator]</li><li>• Financial, People &amp; Results Data: Connecting the Dots with GC InfoBase and Titan [Treasury Board of Canada Secretariat]</li><li>• Extraction of economic indicators and events from news articles using machine learning [Statistics Canada]</li></ul>
<b>3:50 pm to 4:00 pm Transition (10 min)</b>		
10	4:00 pm to 4:45 pm Canada Hall 1	<b>KEYNOTE [DS02]</b> <b>Governing the Data Driven Economy</b> Jim Balsillie, Co-founder of the Council of Canadian Innovators and CIO Strategy Council  An engaging keynote address that explains the growing power of today's data-driven economy, why data governance is the most pressing policy priority of our time; and, the digital policy infrastructure Canada needs to address the opportunities and challenges of a digital world.
11	4:45 pm to 6:00 pm Canada Hall 1	<b>EVENING NETWORKING [F14]</b> <b>Chief Data Officer (CDO) Invitational: Community of Practice &amp; Networking Event</b>  Get to know the people in your Data Community. After the afternoon keynote, capitalize on the opportunity to meet your fellow peers through a semi-structured networking event.

The various working groups under the Enterprise Data Community of Practice will be present. Open to everyone!

Moderated by Stephen Burt, Co-Chair of the Chief Data Officer Council, Department of National Defence

**Data Governance Working Group**

- Hélène Bérard, Statistics Canada
- Gillian Whichelo, Department of National Defence

**Data Governance: Data Quality**

- Ryan Chepita, Statistics Canada
- Omar Bitar, Treasury Board of Canada Secretariat

**Data Architecture Working Group**

- Cory Chobanik, Statistics Canada

**Data Architecture: Data Cataloging**

- Cory Chobanik, Statistics Canada

**Data Architecture: Reference Data Management:**

- Stéphane Crête, Statistics Canada
- Jack McKittrick, Employment and Social Development Canada

**People and Culture Working Group**

- Julian Kirby, Veterans Affairs Canada
- Neetika Chopra, Treasury Board of Canada Secretariat

**Data Analytics Working Group**

- Drew McKenna, Treasury Board of Canada Secretariat

**Metadata Community of Practice**

- Sue-Ann Woo, Canadian Heritage

**DETAILED AGENDA - February 14, 2020**

<b>7:30 am – 8:30 am Arrival &amp; Registration</b>		
12	8:30 am Canada Hall 1	<b>Masters of Ceremonies: Welcome</b> <ul style="list-style-type: none"><li>• Zoë Tupling, Senior Digital Policy Analyst, Data Strategy and Innovation, Department of National Defence</li><li>• Isa David, Learning Advisor, Canada School of Public Service</li></ul>
13	8:45 am to 9:45 am Canada Hall 1	<b>PANEL [DS03]</b> <b>Deputy Minister Panel: Compare &amp; Contrast of their Data Journeys</b> <p>This session provides an opportunity for deputy heads across government to compare and contrast how their organizations are using data to advance their strategic objectives, and to share their organization's data journey.</p> <ul style="list-style-type: none"><li>• Taki Sarantakis, President, Canada School of Public Service</li><li>• Gordon Venner, Associate Deputy Minister, Department of National Defence</li></ul>

		<ul style="list-style-type: none"> <li>• Shelly Bruce, Chief, Communications Security Establishment Canada</li> <li>• Paul Thompson, Associate Deputy Minister, Innovation, Science and Economic Development Canada</li> <li>• Moderated by Anil Arora, Chief Statistician of Canada, Statistics Canada</li> </ul>
<b>9:45 am to 10:00 am Transition, Coffee/Tea and Health Break (15 mins)</b>		
<b>10:00 am to 11:00 am CONCURRENT SESSIONS</b>		
14A	10:00 am to 11:00 am  Canada Hall 1	<p><b>PANEL [A02]</b> <b>Talent Management in a Data World</b></p> <p>This panel will explore the current state and future of data talent through themes of identifying, acquiring, developing and leading data talent now and in the future. It will include discussion of recent people management plans, initiatives, pilots and experiments and lessons learned to inform priorities, opportunities for scaling and planning for a digital and data enabled workforce.</p> <ul style="list-style-type: none"> <li>• Ryan Hum, Vice President, Data and Information, Canada Energy Regulator</li> <li>• Stacey Money, Director General, Statistics Canada</li> <li>• David Cramm, Director, IM/IT Functional Community Management, Treasury Board of Canada Secretariat</li> <li>• Margaret Skwara, Technical Specialist, Data Canada Energy Regulator</li> <li>• Moderated by Jason Fox, Office of the Chief Human Resources Officer, Treasury Board of Canada Secretariat</li> </ul>
14B	10:00 am to 11:00 am  Room 214	<p><b>PANEL [DS11]</b> <b>Data integration as a Means of Improving Data Available for Indigenous Populations</b></p> <p>This session will describe the evolution of the relationship through which Indigenous Services Canada (ISC) and Crown-Indigenous Relations and Northern Affairs Canada send data to Statistics Canada, and how the two organizations are working together to advance the use of data integration as a means of improving the quality and quantity of data available for Indigenous populations at relatively low cost, and without increasing respondent burden. The governance structure underpinning the relationship will be highlighted, and the First Nations Information Governance Centre will speak directly to their role observing and studying the progress of this work. Results from the partners' flagship data integration initiative will be shared publicly for the first time, as an illustration of the power and potential of data integration.</p> <ul style="list-style-type: none"> <li>• Erin O'Sullivan, Senior Research Manager, Indigenous Services Canada</li> <li>• Susan Wallace, Analyst, Statistics Canada</li> <li>• Simon Landry, Data Dissemination Officer, Statistics Canada</li> <li>• Jonathan Dewar, Executive Director, First Nations Information Governance Centre</li> <li>• Moderated by Eric Guimond, Senior Director, Indigenous Services Canada</li> </ul>
14C	10:00 am to 11:00 am  Room 215	<p><b>PRESENTATION [F03]</b> <b>Data Curation: A Needed Journey from Creation to Preservation</b></p> <p>This session addresses the data curation journey through the lenses of data policy, data governance, data stewardship, and data preservation.</p> <ul style="list-style-type: none"> <li>• Sylvain Belanger, Director General, Digital Operations and Preservation, Library and Archives Canada</li> <li>• Alison Rygh, Senior Business Analyst, Treasury Board of Canada Secretariat</li> </ul>

14D	10:00 am to 11:00 am  Room 213	<p><b>PRESENTATION [S04]</b> <b>Secure Cloud Enabled by Infrastructure and People</b></p> <p>The Communications Security Establishment (CSE) has long played a role in the Government of Canada's cloud strategy; working in partnership with Treasury Board Secretariat and Shared Services Canada to leverage cloud service offerings while protecting Canada's data. But how can CSE – an organization that has historically housed all data at the Top Secret level – securely leverage public cloud to conduct its operations? Please join our team to learn how CSE is navigating challenges, both technical and cultural, in its journey to the cloud.</p> <ul style="list-style-type: none"> <li>• Tim Gibel, Executive Director, IT Security Systems and Services, Communications Security Establishment</li> <li>• Jason Gallant, Manager Culture &amp; Change Management, Communications Security Establishment</li> <li>• Tyler Moule, Acting Supervisor, Cloud Architecture Advice and Guidance, Communications Security Establishment</li> </ul>
14E	10:00 am to 11:00 am  Room 206	<p><b>FISHBOWL [A06]</b> <b>Policy Makers – How's Your Data?</b></p> <p>This session will explore challenges and opportunities associated with using data to empower policy making. It will identify examples of data use from within GC departments and build awareness of who is active in this developing area. The target audience is policy analysts, advisors and others who have a role to play in ensuring that data and evidence are applied effectively at various stages of the policy making (and policy implementation) process.</p> <ul style="list-style-type: none"> <li>• Paul Guerra, Data Evangelist, Agriculture and Agri-Food Canada</li> <li>• Rebecca Barnes, Deputy Director - Parliamentary Affairs Unit (Foreign Affairs), Global Affairs Canada</li> <li>• Zoe Tupling, Senior Digital Policy Analyst, Data Innovation Analytics, Department of Defence</li> <li>• Cara Williams, Assistant Director, Modern Statistical Methods and Data Science, Statistics Canada</li> </ul>
14F	10:00 am to 11:00 am  Room 208	<p><b>FISHBOWL [A12]</b> <b>AI and Human Rights: Where do I draw the line?</b></p> <p>As artificial intelligence (AI) is increasingly becoming a part of our daily lives, conversations for the responsible development of AI should be grounded in a human-centred and ethical approach. Join our AI enthusiasts in an open and engaging discussion on AI and Human Rights.</p> <ul style="list-style-type: none"> <li>• Michael Karlin, Team Lead, Policy and Strategy, Data, Innovation, Analytics, Department of National Defence</li> <li>• Laurie Reedman, Section Chief / Assistant Director, Modern Statistical Methods and Data Science Branch, Statistics Canada</li> <li>• Benoit Deshaies, Senior Advisor, Artificial Intelligence, Treasury Board of Canada Secretariat</li> <li>• Cassandra Nagy, Senior Advisor, Artificial Intelligence, Treasury Board of Canada Secretariat</li> </ul>
<b>11:00 am to 11:10 am Transition (10 mins)</b>		
<b>11:10 am to 12:10 pm CONCURRENT SESSIONS</b>		

15A	11:10 am to 12:10 pm Canada Hall 1	<p><b>PANEL [A05]</b>  <b>C-Suite Transformation of Information Officers, Data Officers and Digital Officers</b></p> <p>A panel representing senior information officers, data officers and digital officers to discuss the transformation and transition of these critical roles and how they work together towards common organizational goals.</p> <ul style="list-style-type: none"> <li>• Sandy Kyriakatos, Chief Data Officer, Canada Border Services Agency</li> <li>• Annette Butikofer, Chief Information Officer, Canada Revenue Agency</li> <li>• Julie Leese, Chief Digital Officer, Transport Canada</li> <li>• Marc Brouillard, Chief Technology Officer, Treasury Board of Canada Secretariat</li> <li>• Moderated by Stephen Burt, Assistant Deputy Minister (Data, Innovation, Analytics)/Chief Data Officer, Department of National Defence</li> </ul>
15B	11:10 am to 12:10 pm Room 214	<p><b>PANEL [A15]</b>  <b>How Can We Use Text and Semantic Analysis in Our Work?</b></p> <p>Don't forget about text. Often data analysis is synonymous with numerical analysis and we overlook how much of our work day is in words and not numbers! We are surrounded by text, whether its stakeholder documents, online forums, letters or emails that we send/receive, transcripts from court or government commissions, or even regulations and legislation. This session will highlight different opportunities for the government to gain insights and take action on this largely untapped data source. Artificial Intelligence in our phone already suggests different responses to our text messages, how can we use text and semantic analysis in our work?</p> <ul style="list-style-type: none"> <li>• Ryan Hum, Vice President, Data and Information, Canada Energy Regulator</li> <li>• Wolfgang Alshner, Assistant Professor, University of Ottawa</li> <li>• Kaveh Afshar-Zanjani, Manager, Data Science and Governance, Environment and Climate Change Canada</li> <li>• Moderated by Riri Shen, Deputy Assistant Deputy Minister, Department of Justice</li> </ul>
15C	11:10 am to 12:10 pm Room 215	<p><b>SPEAKER [F15]</b>  <b>Canadian Data Governance Standardization Collaborative</b></p> <p>Anneke Olvera, Acting Director, Policy &amp; Stakeholder Engagement, Standards Council of Canada</p> <p>The Collaborative was established in the summer of 2019 as a cross-sector coordinating body with the objective to accelerate the development of industry-wide data governance standardization strategies. It is led by co-chairs Anil Arora, Canada's Chief Statistician, and Philip Dawson, the Public Policy Lead at Element AI. The Collaborative has over 160 members from government, private industry and broader civil society – which includes not-for-profits and non-governmental organizations representing specific, collective interests within society, including those of individual private citizens. It will be presenting its roadmap being published in the Spring/Summer 2020 as an action item of the Government of Canada's Digital Charter.</p>

15D	11:10 am to 12:10 pm Room 213	<b>PRESENTATION [A07]</b> <b>Data Disruption and Decision Making</b>  These projects and initiatives from across government demonstrate how departments are leveraging and adopting techniques for disruption for traditional data management and enabling sound data-enabled decision making. <ul style="list-style-type: none"> <li>• Using Machine Learning for Advanced Data Analysis [Communications Security Establishment]</li> <li>• The secrets of Government Data: Three things you wish you had known earlier to be effective at evidence-based decision making [Employment and Social Development Canada]</li> <li>• Digital Technologies to Improve the Delivery of Materiel Sustainability for the Royal Canadian Navy [Canadian Armed Forces/Department of National Defence]</li> </ul>
15E	11:10 am to 12:10 pm Room 206	<b>FISHBOWL [DS08]</b> <b>Open and Public Engagement: Interactive Discussions of Real Experiences</b>  This fishbowl session will bring together public engagement practitioners and interested federal employees from across departments to share and exchange ideas for best practices in the area of open dialogue tools. The session will emphasize real stories and case studies, with presenters drawing on lessons learned from their own work files and experiences to stimulate group conversation. <ul style="list-style-type: none"> <li>• Dhurata Ikonomi, Executive Director, Community of Federal Regulators</li> <li>• Jacques Fauteux, Assistant Chief Statistician, Strategic Engagement and Communications Field, Statistics Canada</li> <li>• Jeff Ball, Director, Open Government, Treasury Board of Canada Secretariat</li> </ul>
15	11:10 am to 12:10 pm Room 208	<b>FISHBOWL [F13]</b> <b>Data: A Cultural Journey</b>  A data-driven organization requires not only the foundational elements of data governance, ethics, master data management, but also the change in organizational culture in order to be effective. Join the conversation with our four subject matter experts as they share their data-culture journey and discuss the challenges and culture change requirements of a future data-enabled and data-responsive federal government. <ul style="list-style-type: none"> <li>• Sam Louden, Programmer, Application Development, Canada School of Public Service</li> <li>• Elisabeth Sire, Environment and Climate Change Canada</li> <li>• Toundjer Erman, Senior Director, Analytics and Systems, Justice Canada</li> <li>• Lieutenant Colonel Erik Liebert, Chief of Defence Staff Initiatives Group, Canadian Armed Forces</li> </ul>
<b>12:10 pm to 1:15 pm Lunch Break (off-site)</b>		
<b>1:15 pm to 2:25 pm CONCURRENT WORKSHOPS</b>		

16A	1:15 pm to 2:25 pm Canada Hall 1	<p><b>WORKSHOP [F09]</b> <b>The Life-Changing Magic of Implementing the Policy on Service and Digital, Treasury Board of Canada Secretariat</b></p> <p>How will the Policy on Service and Digital change your life? This workshop will introduce you to the new Policy on Service and Digital and hopefully ease anxiety concerning its effective implementation through facilitated discussions grouped by themes from the recently released Guideline on Service and Digital. Participants will join interactive break-out sessions that will cover the following themes: Service, Strategic management of information and data, Release of information and data on the open government portal, Privacy and protection, Data residency, and Automated decision-making.</p> <ul style="list-style-type: none"> <li>• Mark Khouri, Director, Digital Policy and Research, Treasury Board of Canada Secretariat</li> <li>• Jessica Romkey, Digital Analyst, Treasury Board of Canada Secretariat</li> </ul>
16B	1:15 pm to 2:25 pm Room 214	<p><b>WORKSHOP [A14]</b> <b>All Things Data: From Zero to AI</b></p> <p>This interactive session will give attendees an overview of the data science landscape as well as a hands on case study working with data. It will teach essential concepts in data science and demystify aspects of the field of data science that may be holding teams back. At the end of the session, attendees will understand key terms and concepts in data science. Bring your mobile device to participate!</p> <ul style="list-style-type: none"> <li>• Shingai Manjengwa, Chief Executive Officer, Fireside Analytics</li> </ul>
16C	1:15 pm to 2:25 pm Room 215	<p><b>WORKSHOP [DS10]</b> <b>Building Towards an Equitable Digital Future</b></p> <p>In this session we will be exploring how we can collectively build towards a more just and equitable digital future. As concerns around privacy, ethics and digital rights continue to expand, how can we build the guardrails to protect ourselves and the most marginalized in our communities? This session will provide space for imagination and critical thinking as we move forward with digital transformation and strategic plans federally.</p> <ul style="list-style-type: none"> <li>• Nasma Ahmed, Director, Digital Justice Lab</li> </ul>
16D	1:15 pm to 2:25 pm Room 213	<p><b>WORKSHOP [F08]</b> <b>Explore Your Data Potential: A Competency Framework for the Government of Canada</b></p> <p>This interactive workshop will explore the topic of increasing data literacy in the federal public service. It will introduce the Databilities data literacy assessment pilot at Statistics Canada, and participants will have a chance to review, explore and provide feedback to the draft Data Competency Framework for the Government of Canada.</p> <ul style="list-style-type: none"> <li>• Mackenzie Kitchen, Analyst, Canada School of Public Service</li> <li>• Claudia Sanmartin, Principal Researcher, Statistics Canada</li> </ul>

16E	1:15 pm to 2:25 pm Room 208	<p><b>WORKSHOP [DS12]</b> <b>Data Science Community: Is This for You?</b></p> <p>Statistics Canada sees the need for a Data Science Community in the government of Canada to establish the foundations of a public-service-wide data science ecosystem that will allow knowledge and expertise to be shared, best practices and standards to be established, and data science capacity to be built. The workshop is geared towards getting feedback regarding the interest of such a community and identifying services, standards and guidelines that the community members would benefit from. Ideas regarding activities, communication, interaction, learning, knowledge sharing, collaboration, roles, and social structures will be sought.</p> <ul style="list-style-type: none"> <li>• Yanick Beauchage, Assistant Director, Data Science Division, Statistics Canada</li> <li>• Monica Pickard, Section Chief, Statistics Canada</li> </ul>
<b>2:25 pm to 2:30 pm Transition (5 mins)</b>		
17	2:30 pm to 2:50 pm Canada Hall 1	<p><b>Moving Forward ... Unlocking the Power of Data</b> Shingai Manjengwa, Chief Executive Officer, Fireside Analytics</p> <p>Shingai Manjengwa will set the stage to unlock the power of data and send federal employees forward, encouraging them to take up and apply the tools and inspiration from the past two days.</p>
18	2:50 pm to 3:20 pm Canada Hall 1	<p><b>Departmental co-hosts: Closing Remarks</b></p> <ul style="list-style-type: none"> <li>• Stephen Burt, Assistant Deputy Minister (Data, Innovation, Analytics) Chief Data Officer, Department of National Defence</li> <li>• Neil Bouwer, Vice-President, Innovation and Policy Services, Canada School of Public Service</li> </ul>