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Canada

DATA
CONFERENCE
2021AN INTEGRATED
DATA COMMUNITY
FOR BUILDING
BACK BETTERCONFÉRENCE
SUR
LES
DONNÉES
2021UNE COMMUNAUTÉ
DES DONNÉES
INTÉGRÉE POUR
REBÂTIR EN MIEUX

Data Conference 2021 is co-hosted by

Canada School of Public Service and Immigration, Refugees and Citizenship Canada

The Main Conference is taking place on February 18-19, 2021

Followed by Data Literacy Fest, February 22-23, 2021

To register, visit [Data Conference 2021 webpage](#)For more information, join [Data Conference 2021 GCcollab group](#)For questions or comments, contact the [Data Conference 2021 Team](#)**Data Conference 2021 – Thursday, February 18, from 11:00 to 4:35 ET**

11:00 – 11:05	Welcoming Remarks by Masters of Ceremonies Enrico del Castello , Director, Immigration, Refugees and Citizenship Canada Liz McKeown , Faculty member, Digital Academy, Canada School of Public Service
11:05 – 11:15	Indigenous Welcome Gilbert Whiteduck , Former Kitigan Zibi Anishinabeg Chief
11:15 – 11:30	Welcome by Departmental co-hosts Catrina Tapley , Deputy Minister, Immigration, Refugees and Citizenship Canada Taki Sarantakis , President, Canada School of Public Service
11:30 – 11:45	Opening Remarks Anil Arora , Chief Statistician of Canada, Statistics Canada

PLENARY DISCUSSION

11:45 – 1:00	<p>Data for Responsive Public Policy</p> <p>The opening plenary brings together speakers from across the federal government and provincial institutes to discuss how data are used in response to emergent public policy needs. The plenary will focus on overcoming data challenges in high impact areas for policy and program action related to socio-economic and health inequities. Key themes of discussion will include how better data augment the crisis management strategies of government organizations, enhance the value of data innovations and nurture best practices for more inclusive outcomes and effective results.</p> <p>André Loranger, Assistant Chief Statistician, Statistics Canada Ima Okonny, Chief Data Officer, Employment and Social Development Canada Mireille Laroche, Chief Data Officer, Canada Revenue Agency Astrid Guttman, Chief Science Officer, ICES, Ontario</p> <p>Moderated by: Kara Beckles, Director General, Privy Council Office</p>
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1:00 – 1:15	Health break featuring a video compilation of data applications from various departments (rolling presentation).
FIRESIDE CHAT	
1:15 – 2:15	<p>The Value of Data for an Innovative and Inclusive Public Policy</p> <p>The fireside chat will provide an opportunity to hear leading practitioners of the Canadian data landscape reflect on how good data support the path toward recovery. Focal points of the conversation are on the data needs to address the structural issues of equity, sustainability and inclusion, and how better data governance and data quality supports innovative initiatives for public good by connecting challenging policy questions with data infrastructures, expertise and analytics needed to address them.</p> <p>Rohinton Medhora, President, Centre for International Governance Innovation Anil Arora, Chief Statistician of Canada, Statistics Canada Vik Pant, Chief Scientist and Chief Science Advisor, Natural Resources Canada</p> <p>Moderated by: Natasha Kim, Assistant Deputy Minister, Immigration, Refugees and Citizenship Canada</p>
CONCURRENT BREAKOUT SESSIONS	
<p>Stream 1</p> <p>Data Governance</p>	<p style="text-align: center;">Theme: Data Strategy</p> <p>Implementation of Data Strategies across the Government</p> <p>This session brings together federal departments and agencies for a conversation on the implementation phases of their respective data strategies. The session focuses on key lessons learned in the governance, management and use of data while implementing departmental strategies aligned with the Data Strategy Roadmap for the Federal Public Service issued in November 2018.</p> <p>Jamie Smith, Chief Data Officer, Environment and Climate Change Canada Tom Dufour, Director General, Statistics Canada Daniel MacDonald, Senior Director, Natural Resources Canada Julie McAuley, Chief Results and Delivery Officer, Innovation, Science and Economic Development Canada</p> <p>Moderated by: Alain Beaudoin, Assistant Secretary to the Cabinet, Privy Council Office</p>
<p>Stream 2</p> <p>Leveraging Data Assets</p>	<p style="text-align: center;">Theme: Data For Policy, Research And Service</p> <p>Spotlight on the Canadian Statistics Advisory Council 2020 Annual Report: Towards a Stronger National Statistical System</p> <p>The Canadian Statistics Advisory Council (CSAC), an independent advisory body put in place by the government in late 2017 to improve the quality of Canada’s national statistics system, issued their first report in October 2020. In this panel, Council members discuss the objectives and findings of their report, and invite input from the audience. The discussion will highlight the recommendations of the Council to overcome the challenges regarding the collection, accessibility and use of detailed statistics. A key theme in the conversation will be the socio-economic and health data gaps that impede decision-making, particularly regarding racialized groups and Indigenous Peoples, and the need for a more integrated data ecosystem.</p> <p>Gail McDonald, Former Executive Director of First Nations Information Governance Centre and CSAC Member Howard Ramos, Chair of CSAC Board and Professor, Western University Jan Kestle, President and CEO, Environics and CSAC Member</p> <p>Moderated by: Céline Le Bourdais, Professor, McGill University and CSAC Member</p>

<p>Stream 3</p> <p>Data Development And use</p>	<p align="center">Theme: Cyber Security</p> <p>Data Defense in Support of Government of Canada COVID-19 Response</p> <p>Communications Security Establishment's Canadian Center for Cyber Security (CCCS) plays a key role in the defense of the Government of Canada's infrastructure, systems, and data assets. This session brings together a panel of CCCS experts to discuss how data security and data defense contribute to the security of the government's response to COVID-19. The protection of Canadian vaccine research efforts, as well as the security of the COVID-19 tracking application will be some of the focal points of the discussion.</p> <p>Jean-Philippe Racicot, Supervisor, Strategic Cyber Threat Assessment Eric Bisailon, Director, Security Architecture Lindsay MacDonald, Sector Lead, Health and Academia Sectors, Partnerships</p> <p>Moderated by: Don MacLeod, Director, Autonomous Defense and Sensors</p>
<p>3:15 – 3:30</p>	<p>Health break featuring a video compilation of data applications from various departments (rolling presentation).</p>
<p>3:30 – 4:30</p>	<p align="center">CONCURRENT BREAKOUT SESSIONS</p>
<p>Stream 1</p> <p>Data Governance</p>	<p align="center">Theme: Data Quality and Data Stewardship</p> <p>Ensuring Data Quality through Data Stewardship</p> <p>Foundational pieces in the operationalization of data strategies across the Government of Canada include frameworks to advance data quality and ways of formalizing the role of data stewards. How can networks of data stewards better support data quality work at the enterprise level? What are some of the lessons learned in the assignment of department-wide roles and responsibilities regarding data quality? This session will focus on the experience of data governance journeys and discuss approaches to reporting and decision-making as organizations develop tools to support data stewards in their efforts to improve data quality.</p> <p>Lauren Aldwinckle, Manager, Fisheries and Oceans Canada Anton Bazilev, Manager and Jane Lin, Data Governance Analyst, Department of National Defense Crystal Sowards, Manager, Office of Chief Data Officer, Statistics Canada</p> <p>Moderated by: Sébastien Fleurant, Director, Immigration Refugees and Citizenship Canada</p>
<p>Stream 2</p> <p>Leveraging Data Assets</p>	<p align="center">Theme: Data Ethics And Artificial Intelligence</p> <p>Data Ethics and AI Innovation</p> <p>What are some of the legal, methodological, program/policy and service delivery perspectives that shed light on the ethical issues in the use and management of data? This panel will delineate the ethical principles in the design, functionality and use of data in AI innovation. Participants will address the balance between innovation and ethical use of emerging technologies in AI by reflecting on the experience of automated processes in government programs and services.</p> <p>Benoit Deshaies, A/Director, Treasury Board of Canada Secretariat Eric Rancourt, Director General, Statistics Canada Michelle Mann, General Counsel, and Patrick McEvenue, Senior Director, Immigration, Refugees and Citizenship Canada</p> <p>Moderated by: Maryam Haghighi, Director, Bank of Canada</p>

Stream 3 Data Development And use	Theme: Data Science Applications
	<p>Assessing Input Data and Resultant Model Accuracy</p> <p>The presentations in this panel address how to assess input data and communicate resultant model accuracy to clients and partners. Learn how data scientists are putting theory into practice when assessing data for projects and how they work with clients to achieve the desired output quality.</p> <p>Saeid Molladavoudi, Lead Data Scientist , Statistics Canada Stéphane Tremblay, Team Lead, National Research Council Canada Yvan Gauthier, Team Lead, Department of National Defence</p> <p>Moderated by: Monica Pickard, Section Chief, Statistics Canada</p>
4:30 – 4:35	Closing Remarks for Day 1 by the Masters of Ceremonies

DATA CONFERENCE 2021 – Friday, February 19, from 11:00 to 4:35 ET	
11:00 – 11:15	Welcoming Remarks by the Masters of Ceremonies
PLENARY DISCUSSION	
11:15 – 12:30	<p>Data Journalism: Truth Telling with Data Analysis and Visualizations for Public Interest</p> <p>The second plenary of the Conference brings together data journalists and experts using a variety of data analysis and representation techniques for journalistic investigation and for communicating the uncovered stories to the public. The plenary will focus on the role of data journalism to enhance the evidence base for trusted insight and effective policy-making, and to advance the public conversation in support of inclusive and equitable outcomes. The discussion topics include: techniques to gather and analyze data for investigative journalism; the democratization of data for a new generation of journalists; community-based data literacy projects to address sustainable development goals in Africa; feminist approaches to address data gaps for inclusive social outcomes.</p> <p>Tom Cardoso, Data Journalist, <i>Globe and Mail</i> David McKie, Deputy Managing Editor, <i>National Observer</i> Jocopo Ottaviani, Chief Data Officer, Code for Africa Lauren Klein, Associate Professor, Emory University, co-author of <i>Data Feminism</i> (2020, MIT Press)</p> <p>Moderated by: Caroline Xavier, Associate Deputy Minister, Immigration Refugees and Citizenship Canada</p>
12:30 – 1:00	Health break featuring a video compilation of data applications from various departments (rolling presentation).
FIRESIDE CHAT	

<p>1:00 – 2:00</p>	<p>Joys of Joining up: Bridging the Digital, Information Management and Data Worlds</p> <p>The fireside chat of the second day of the Conference brings together Chief Data Officers (CDOs) and Chief Information Officers (CIOs) from across the federal government for a conversation on developing a joined-up approach to governance and the management of data and information. The conversation will address key challenges and opportunities to effectively bridge the scope, roles and responsibilities of CDOs and CIOs in the context of relevant Treasury Board policies, digital government, and the Data Strategy Roadmap for the Federal Public Service.</p> <p>Stephen Burt, Chair of CDO Council; Assistant Deputy Minister, Department of National Defence Sandy Kyriakatos, Chief Data Officer, Canadian Border Services Agency Zaina Sovani, Assistant Deputy Minister and Chief Information Officer, Immigration, Refugees and Citizenship Canada</p> <p>Moderated by: Marc Brouillard, A/Chief Information Officer of Canada, Treasury Board of Canada Secretariat</p>
<p>2:00 – 3:00 CONCURRENT BREAKOUT SESSIONS</p>	
<p>Stream 1 Data Governance</p>	<p style="text-align: center;">Theme: Data Standards And Metadata</p> <p>Standards in Action: Emergence of Data Standards to Drive Business Outcomes</p> <p>The panel discussion will explore the value and how to boost the adoption of common data standards across government. Common data standards support the interoperability and the data exchange required both to improve analysis and policymaking, and to hasten progress towards truly digital, user-focused service delivery. Topics include discussion on the business value of standards; how best to develop and introduce standards; how to encourage take-up among departments and agencies; and how to allocate responsibilities for driving and monitoring adoption.</p> <p>David Barraclough, Manager, Organisation of Economic Co-operation and Development (OECD) Benjamin Williams, Director, Canadian Mortgage and Housing Corporation Meline Nearing-Hunter, Director and Benoit Deshaies, A/Director, Treasury Board of Canada Secretariat Daniel Gillman, Senior Research Scientist, US Labor Bureau of Statistics.</p> <p>Moderated by: Cory Chobanik, Director, Statistics Canada</p>
<p>Stream 2 Leveraging Data Assets</p>	<p style="text-align: center;">Theme: Open Data</p> <p>International Lens: How Open Data is Helping to Solve COVID-19</p> <p>Whether to track cases, find cures or accelerate vaccine rollout, the pandemic brought to the forefront the acute need for open data. This panel will bring world-renowned open data experts who will share lessons learned and best practices to help improve the release of COVID-19 data. The conversation will aim to raise the awareness of data practitioners around good data governance principles such as data leadership, trust, transparency, standards, collaboration and equity. The discussion will also touch on Government of Canada initiatives that led to the release of more open data and information related to COVID-19.</p> <p>Barbara Ubaldi, Deputy Head, Open and Innovative Government Division, Organisation of Economic Co-operation and Development (OECD) Natalia Carfi, Deputy Director, Open Data Charter Nigel Jacob, Co-founder, Mayor's Office of New Urban Mechanics, City of Boston</p> <p>Moderated by: Melanie Robert, Executive Director, Open Government, Treasury Board of Canada Secretariat</p>

<p>Stream 3 Data Development And use</p>	<p style="text-align: center;">Theme: Data Use for Results and Delivery</p> <p>Data Partnerships and Infrastructures for Responsive Public Policy – Case Studies</p> <p>What are some of the prominent examples of foundational resources provided by data partnerships and data networks that are leveraged in response to emergent public policy needs? Join this panel discussion to learn more about use cases for building data products and infrastructures in high impact areas for policy and program implementation. Case studies in focus include the development of benefit knowledge hub for the sharing and analysis of Canada Emergency Response Benefit data; data visualization products for federal, provincial and territorial users to inform the deployment and demand of Personal Protective Equipment in the provinces; and establishing data infrastructures for developing and sharing multi-province health data.</p> <p>Donna Curtis Maillet, Professor, Health Data Research Network and University of New Brunswick Gillian Dawson, Director, Health Canada Vedmani Sharan, Policy Analyst, Employment and Social Development Canada</p> <p>Moderated by: Gabrielle Fitzgerald, Director, Infrastructure Canada</p>
<p>3:00 – 3:15</p>	<p>Health break featuring a video compilation of data applications from various departments (rolling presentation).</p>
<p>PLENARY DISCUSSION</p>	
<p>3:15 – 4:30</p>	<p>Data Literacy Matters</p> <p>The third and concluding plenary of the Conference will feature unique perspectives on data literacy for those who manage, analyze and use data and data products to participate more actively in the data landscape. Conversation themes will include: approaches to measure, map and develop data literacy across organisations; current initiatives to support data literacy training and upskilling in the Government of Canada; data literacy as a cluster of essential competencies needed for the appreciation of the full value of administrative data beyond its immediate operational use, including its value for transparent government and its impact on public policy and the public good; data literacy demands on the public service and the range of learning opportunities and innovative solutions for core government functions in areas of digital enablement, accessibility and data sharing.</p> <p>Jane Crofts, Founder and CEO, Data to the People Yvan Clermont, Director General, Statistics Canada Ümit Kiziltan, Chief Data Officer, Immigration, Refugees and Citizenship Canada Taki Sarantakis, President, Canada School of Public Service</p> <p>Moderated by: Neil Bower, Vice-President, Canada School of Public Service</p>
<p>4:30 – 4:35</p>	<p>Closing Remarks for Day 2 by Co-Hosts</p>

DATA CONFERENCE 2021 – Data Literacy Fest – February 22-23, 2021

Hosted by CBSA, CSPS, ESDC, GAC, IRCC, NRCAN, PCO, PHAC, STC, TBS, TC

For more information, join the [Data Conference 2021 GCcollab group](#)

Monday, February 22, from 9:00 to 5:00 ET

CONCURRENT WORKSHOPS

9:00 – 10:15	Room A	<p>Building a Digital Accelerator</p> <p>Hosted by Natural Resources Canada (NRCan) NRCan’s Digital Accelerator takes a hands-on-approach to AI/digital innovation. The mission of the Accelerator is to introduce and improve artificial intelligence-related capabilities at NRCan and explore new ways to incorporate AI/digital solutions and processes within the department’s operations. During this session, we will share how we are advancing AI/digital transformation at NRCan and invite feedback about the projects and initiatives undertaken by the Digital Accelerator.</p> <p style="text-align: right;">Curtis McKinney, Manager and Strategy Lead, Digital Accelerator, Office of the Chief Scientist, NRCan Sanat Sethi, Technical Lead, Digital Accelerator, Office of the Chief Scientist, NRCan</p>
	Room B	<p>Data Engineering Challenges and Solutions: Demonstration of Shiny</p> <p>Hosted by Canada Border Services Agency (CBSA) This workshop overviews the challenges and solutions related to data engineering - the domain that deals with automation of data processing and analysis. In this workshop, you will learn more about the nature and challenges of data engineering, and will be able to experience some of data engineering challenges first-hand, and see how these challenges can be solved using modern data science tools such as R and RStudio, which are now supported by thousands of practitioners worldwide collectively calling themselves "data scientists" and "date engineers". The work on developing an R package and Shiny application to assist with data cleaning and linking will be presented.</p> <p style="text-align: right;">Dmitry Gorodnichy, Data Science Team, Chief Data Office, CBSA Moderated by: Sarah Mcculloch, Senior Analyst, Engagement and Enablement, Chief Data Office, CBSA</p>
10:15 – 10:30	HEALTH BREAK	
10:30 – 11:45	Room A	<p>COVIDTrends and ArriveCAN: Digital Enablers</p> <p>Hosted by Public Health Agency of Canada (PHAC) With a focus on two data applications, this workshop will delve into how the pandemic has shaped the way we work with key partners, as well as the opportunities and challenges of creating public-facing digital applications.</p> <p><i>COVIDTrends</i> is a digital tool that provides timely summary data about COVID-19 in a user’s local public health region. PHAC’s Data Hub has partnered with several internal programs and organizations to show how the pandemic is evolving in Canada. When a user searches by municipality (city, town) or by the first three characters of their postal</p>

		<p>code, a banner displaying local case, mobility and syndromic data will appear with a web link to their local public health region.</p> <p>Nicole Saba, Director, PHAC Rafael Barros, Senior Policy Analyst, PHAC</p> <p><i>ArriveCAN</i> was developed by the Canada Border Services Agency (CBSA) and PHAC to enable all incoming travellers to Canada to submit mandatory information quickly, easily and securely in order to meet requirements for entry. The development of the application has enabled rapid data sharing across provinces and territories. <i>ArriveCAN</i> can be accessed using a mobile device or a computer. There are mandatory requirements for incoming travellers to use <i>ArriveCAN</i> to submit information before and after their entry to Canada.</p> <p>Antonio Utano, Executive Director, CBSA Laura Corbett, Analyst, PHAC Athintra Sethurajan, Senior Analyst, PHAC</p> <p>Moderated by: Derek Carson, Director, Centre for Data Management, Innovation and Analytics PHAC</p>
	Room B	<p>The Government of Canada Data Ecosystem</p> <p>Hosted by the Privy Council Office, Results and Delivery Unit (PCO-RDU)</p> <p>This interactive workshop will feed into a PCO-RDU project for developing a holistic high-level view of the Government of Canada (GC) data ecosystem. The GC data ecosystem is complex and most are only aware of small cuts of the whole system. This session would allow participants to put their pieces of the picture together. The output will be the first step to developing a common frame of reference, which provides essential context for decision-making and action to advance the government's overall data maturity.</p> <p>Thomas Kearney, PCO-RDU Interactive session will have additional PCO volunteers to run breakout rooms</p> <p>Moderated by: Alison Kinsman, PCO-RDU</p>
11:45 – 1:00	HEALTH BREAK	
1:00 – 2:15	Room A	<p>How Data is Helping to Reshape Regional Immigration – A Deep Dive into the Longitudinal Immigration Database (IMDB)</p> <p>Hosted by Statistics Canada, Diversity and Sociocultural Statistics (DSS)</p> <p>The IMDB is a comprehensive annual administrative data source that connects immigration records of Immigration, Refugees and Citizenship Canada (IRCC) with tax records, and allows for the study of the economic outcomes of permanent and non-permanent resident cohorts across nearly 40 years. In recent years, new data tables and interactive tools have been released, which has supported the development of regional immigration programs. This workshop will be in two parts: First, it will provide an overview of the IMDB, its analytical tools, and some examples of how to unlock the analytical capacity of the IMDB. The second part will focus on how data has helped shift Canada's economic immigration landscape with programs that are more regionally-focused, improving their ability to respond to the unique demographic and labour market challenges experienced in different regions of the country.</p> <p>Eric Mongrain, Senior Analyst, IMDB, DSS, Statistics Canada Sharmarke Musse, Policy Analyst, Regional Economic Programs and Policy, IRCC</p> <p>Moderated by: Rose Evra, Manager, IMDB, DSS, Statistics Canada</p>

	Room B	<p>Linkable Open Data Environment (LODE): Innovative Approaches for Data Collection, Integration and Visualization</p> <p>Hosted by Statistics Canada, Centre for Special Business Projects (CSBP) This interactive workshop will provide an overview of the LODE and demonstrate some of its open tools, with highlights of the full data workflow, from collection to release, including the data harmonization process. The showcased tools for the projects under development will include: visualization and use of LODE data; building height estimations from street-view images; leveraging cloud-based and open source solutions to compute high-resolution measures of geographic proximity.</p> <p>Julia Conzon, Robert Oikle, Marina Smailes, Joseph Kuchar, Ala'a Al-Habashna, Nick Newstead – Analysts, CSBP, Statistics Canada</p> <p>Moderated by: Bjenk Ellefsen, Chief, CSBP, Statistics Canada</p>
2:15 – 2:30	HEALTH BREAK	
2:30 – 3:45	Room A	<p>Advanced Analytics Workspace</p> <p>Hosted by Statistics Canada, Data Science Network (DSN) The Advanced Analytics Workspace (AAW) is a one-stop-shop for Data Science and Analytics, designed for data exploration, machine learning training/experimentation, and production model and dashboard serving. Built on open-source and open standards, the AAW super-charges the tools shared by the wider research community for fast, frictionless, and large-scale collaboration either within teams or with research partners. We will talk briefly about the high-level design (what tools we chose and why) before giving a demo of the platform. We will dive into a real user's experience, and show how the AAW makes analyses possible at a scale that was previously unattainable.</p> <p>Blair Drummond, Analyst, DSN, Statistics Canada Christian Ritter, Lead Data Scientist, DSN, Statistics Canada Brendan Gadd, Chief IT Architect, DSN, Statistics Canada</p> <p>Moderated by: Reginald Maltais, Manager, DSN, Statistics Canada</p>
	Room B	<p>Using Power BI for Program Development: Understanding Clients' Behaviour and Data Visualization of Immigration Data</p> <p>Hosted by Immigration, Refugees and Citizenship Canada (IRCC), Client Experience Branch and Chief Data Officer Branch This workshop will demonstrate the utility of using Power BI in two areas relevant for immigration policy/program development and open the floor for a discussion of lessons that can be applied more broadly to other datasets.</p> <p>One component of this workshop will focus on how Power BI can be used in an interactive way to understand client journey and what data lessons are learned along the way. In the past, the Client Experience Branch (CEB) and its partners used static tools such as Excel and PowerPoint to determine when clients in various lines of business contact IRCC. Although these tools are useful, they made it hard to keep the products evergreen. The workshop will delve into how CEB revitalized one of the previous client contact maps in Power BI with a focus on sustainability to track client behaviour and support client-centric decision-making.</p> <p>Another component of this workshop will highlight the data visualization project that IRCC's Chief Data Officer Branch (CDO) is implementing to leverage the full potential of data visualization with Power BI as a way of utilizing infographics and business intelligence tools in data storytelling for policy and program development. This session will demonstrate a data visualization report created with Power BI, followed by Q&A to further explore the potential of visualized data reporting.</p> <p>Laaraib Khattak, Analyst, CEB, IRCC Justine Baron, Analyst, CEB, IRCC</p>

		Zhining Qi , A/Assistant Director, CDO, IRCC Greg Philips , Power BI Expert, CDO, IRCC
3:45 – 5:00	Room A	Online Hate and Disinformation in the Context of COVID-19 Hosted by Global Affairs Canada (GAC), Digital Inclusion Lab In this workshop, GAC's Digital Inclusion Lab will demonstrate the methods, tools and results that the Lab is using to examine online hate in relation to the pandemic. The presentations and follow-up discussion will focus on a mixed-methods approach using primary English language qualitative and quantitative data analyses, content analysis, and supplementary secondary resources to map out and analyze discourse across social media platforms and in a real-time repository of hate speech. Priya Kumar , Analyst, Digital Inclusion Lab, GAC Adnan Raja , Analyst, Digital Inclusion Lab, GAC

Tuesday, February 23, from 9:00 to 5:00 ET		
CONCURRENT WORKSHOPS		
9:00 – 10:15	Room A	Designing Visual Briefings for your Executives Hosted by Natural Resources Canada (NRCan) This workshop will offer attendees a series of steps to follow, and principles to apply in order to achieve visual briefings of data for executives. It also will provide tools that can be used to plan visual briefings while showcasing good and bad examples of data visualization and dashboards to help the attendees best position data visualizations for their unique contexts. This is an interactive session for anyone who prepares data visualizations, dashboards, placemats, and/or decks for executives. Alain Grignon , Senior Data Strategist, Strategic Policy Branch, NRCan
	Room B	Answering Policy Questions with Machine Learning: A Case Study on Border Crossing Calculation Using Big Data Co-Hosted by Transport Canada and Dataperformers This workshop will highlight a use case at Transport Canada for an interactive discussion on how Artificial Intelligence can be applied on big data to clarify key public policy questions. The use case will be a due diligence research to understand if weather has an impact on the border-crossing data collected from vehicles. The methodology is to use the pings sent from the trucks as the main proxy for measuring the crossing time, and set up a deep learning algorithm to examine if there is any pattern showing weather impacts on the ping frequency of trucks. The discussion following the use case will focus on how similar initiatives can be implemented in other policy domains. Aires Wang , Project Manager, Dataperformers, Artificial Intelligence Emad Takla , Data Scientist, Dataperformers, Artificial Intelligence Matthew Lesniak , Engineering Project Officer, Transportation and Economic Analysis, Policy Group, Transport Canada Moderated by: Louis-Paul Tardif , Director, Transport Canada and Amine Ben Ayed , Chief Operating Officer, Dataperformers
10:15 – 10:30	HEALTH BREAK	
10:30 – 11:45	Room A	Tools for the Talent Management of Data Scientists

		<p>Hosted by Statistics Canada, Data Science Network Interested in the various roles a data scientist can fill in an organization? Wondering what the required competencies are for various levels of data scientists? Curious how this overlaps with the competencies you already have in the organization? Come see the roles defined in other organizations and help us fill the gaps in competency profiles for data scientists across the Government of Canada to be able to attract and retain the best talent.</p> <p>Yanick Beaucage, Assistant Director, Data Science Division, Statistics Canada Vicki Desjardins, HR Business Partner, Statistics Canada Anabela Nunes, HR Business Partner, Statistics Canada Carol Lane, Senior Project Manager, Digital Change, Treasury Board of Canada Secretariat</p> <p>Moderated by: Reginald Maltais, Manager, Data Science Network, Statistics Canada</p>
	<p>Room B</p>	<p>Machine Learning Applications for Evaluation and Analytics – Case Studies for Program Impact Evaluations and Text Analytics in Records of Employment</p> <p>Hosted by Employment and Social Development Canada (ESDC) This workshop will feature machine learning (ML) applications in two parts and facilitate a conversation on the broader use of ML in areas of impact evaluations and text analytics.</p> <p>The first part will demonstrate ML for program evaluations and show how ESDC is leveraging administrative data and recent developments in ML to better inform policy development through impact evaluations. The presentation will illustrate the implementation of causal ML algorithms to estimate individualized treatment effects, thereby learning what works for whom. This endeavour is fully aligned with the Government of Canada’s commitment to implement a GBA+ lens in evaluation work, ensuring that differential impacts on people of various sociodemographic backgrounds are considered in policy and program development.</p> <p>Andy Handouyahia, Manager, Strategic and Service Policy Branch, Evaluation Directorate, ESDC Leeroy Rikhi (Tristan), Evaluation Officer, Strategic and Service Policy Branch, Evaluation Directorate, ESDC</p> <p>The second part of the workshop will provide a concrete and timely example of ML in action: the ROE comments project that automates the review of the ROE text comment field and updates other fields in the ROE with the appropriate information using a ML algorithm. The presentation will address the potential of turning ROE processing to an automated pipeline instead of requiring manual review by agents, allowing the agents to focus on other processing tasks.</p> <p>Chelsea Ernhofer, Data Scientist, Strategic and Service Policy Branch, Chief Data Office, ESDC Marie-Pier Schinck, Data Scientist, Strategic and Service Policy Branch, Chief Data Office, ESDC</p>
<p>11:45 – 1:00</p>	<p>HEALTH BREAK</p>	
<p>1:00 – 2:15</p>	<p>Room A</p>	<p>Social Inclusion Data Visualization Tool</p> <p>Hosted by Statistics Canada, Diversity and Sociocultural Statistics (DSS) This workshop will provide an overview of a proposed conceptual framework to measure and track social inclusion in Canada and showcase a social inclusion data visualization tool. This social inclusion dashboard is being developed to inform evidence-based policies by disseminating disaggregated data that provides insights into the experiences of diverse population groups, many of whom have intersecting identities. Workshop attendees will learn about a set of indicators to measure social inclusion, the experimental and innovative approaches Statistics Canada is adopting</p>

		<p>to meet the nation’s data needs, and the journey to create the right method to communicate these insights to Canadians.</p> <p>Filsan Hujaleh, Analyst, Health, Justice, Diversity and Populations, DSS, Statistics Canada Dennis Huynh, Data Analyst Intern, Strategic Data Management, Methods and Analysis, Innovation Secretariat, Statistics Canada</p> <p>Moderated by: Natalka Patsiurko, Analyst, Health, Justice, Diversity and Populations, DSS, Statistics Canada</p>
	<p>Room B</p>	<p>Demonstration of Data Tools – R</p> <p>Hosted by the Treasury Board of Canada Secretariat, Internal Audit and Evaluation Bureau</p> <p>This workshop aims to share some work in R, including the process of data integration, statistical methodologies and visualization options. Twenty-five years after its creation as a free and open-source software, R ranks 9th in overall programming languages in terms of popularity and it is increasingly being used by both the internal audit and evaluation communities to support their work. Join us for an interactive session delving into the ability of R to produce high quality graphs, including static, dynamic and interactive graphics.</p> <p>Byron O’Byrne, Head of Data, Asia Pacific Branch, Global Affairs Canada Wan-Chen Lee, Advisor, Internal Audit and Evaluation Bureau, Treasury Board of Canada Secretariat</p>
<p>2:15 – 2:30</p>	<p>HEALTH BREAK</p>	
<p>2:30 – 3:45</p>	<p>Room A</p>	<p>Text Analytics with Machine Learning – Operation Syrian Refugee</p> <p>Hosted by Immigration, Refugees and Citizenship Canada, Operations Planning and Performance Branch (IRCC-OPPB)</p> <p>We present a Text Analytics approach and some techniques, developed and used by the Advanced Analytics Solutions Centre (A²SC) at IRCC, to analyze and classify hundreds of thousands documents of various types. We show how Natural Language Processing (NLP), combined with Sets operations, can be used to identify near duplicates and to re-establish broken email conversations</p> <p>Wassim El-Kas, Assistant Director, Advanced Analytics Solutions Centre, IRCC-OPPB</p>
	<p>Room B</p>	<p>Data: An Essential Element of Experimentation</p> <p>Hosted by Treasury Board of Canada Secretariat (TBS)</p> <p>This workshop is on the uses of data in experimental research in the public service. The workshop will present best practices on data collection, management and analysis and will include examples from departmental experiments underway as part of the second cohort of Experimentation Works (EW). EW is a scalable initiative designed to build the capacity of the public service to experiment through a learning-by-doing model that supports and showcases a variety of experiments in the open. The practical section of the workshop will explore key steps and practices of data collection at the experimental design stage through examples.</p> <p>Nick Chesterley, Director, Strategic Policy, Priorities and Planning, TBS Pierre-Olivier Bédard, Senior advisor, Strategic Policy, Priorities and Planning, TBS Alana Couvrette, Research analyst, Strategic Policy, Priorities and Planning, TBS Haris Khan, Senior Advisor, Behavioural Insights and Policy Lead, Behavioural Insights and Policy, Office of the Chief Human Resources Officer, TBS Jesse Howell, Experimentation Advisor, Experimentation and Design Centre of Expertise, Digital Design Branch, Innovation, Science and Economic Development Canada</p>

3:45 – 5:00	Room A	<p>Data Literacy Initiatives in Government of Canada</p> <p>Co-hosted by Canada School of Public Service (CSPS), Digital Academy and Statistics Canada</p> <p>This interactive workshop is an opportunity to learn and share about initiatives underway to assess, measure and improve data literacy across the Government of Canada, including the latest on data training, organizational data literacy assessment tools and enterprise-wide data communities.</p> <p>Mackenzie Kitchen, Product Owner, Digital Academy, CSPS Claudia Sanmartin, Chief and Senior Researcher, Statistics Canada</p>
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