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Plenary 4 Geo4SDGs: Addressing Agenda 2030

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Overview

- Canada and the Sustainable Development Goals
- Natural Resources Canada and the Canada Centre for Mapping and Earth Observation
 - Geo-enabling the Sustainable Development Goals (SDGs) through:
 - The Federal Geospatial Platform (FGP) / Open Maps
 - Collaboration with Statistics Canada
 - Domestic leadership
- Potential areas of collaboration and next steps



The Government of Canada is committed to supporting the implementation of 2030 Agenda for Sustainable Development

“...The achievement of the SDGs hinges on delivering economic growth that benefits everyone, empowering women and achieving gender equality, and taking ambitious action on climate change. We have a responsibility to future generations to not only achieve these goals, but to do so in a way that leaves no one behind...”

Justin Trudeau, Prime Minister of Canada

United Nations Day, October 24, 2017

<https://pm.gc.ca/eng/news/2017/10/24/statement-prime-minister-canada-united-nations-day>



... and the Canada Centre for Mapping and Earth Observation provides critical expertise

Mandate: Provide pan-Canadian horizontal geospatial policy and program leadership, as well as innovative scientific and technical earth observation tools, techniques, applications and data.

CORE GEOSPATIAL INFORMATION

- National Base Layer Data
- Earth Observation Data
- Geographical Names Board of Canada
- Canada's Emergency Geomatics Service

INNOVATION

- Building hundreds of new data layers to create thematic maps, analytics, and value-added products
- Developing remote sensing techniques
- Integrating AI and cloud computing
- Creating interoperability and spatial data infrastructure with standards, policies and tools

COLLABORATION

- Providing access to data through various means, including the Federal Geospatial Platform and Open Maps
- Providing leadership in Canadian government geomatics activities and planning through senior-level federal and federal-provincial-territorial committees
- Representing geomatics in Canada at the international level: United Nations, Arctic Council, Open Geospatial Consortium, International Projects



We are driving the geo-enabling of SDGs...

- The **Canada Centre for Mapping and Earth Observation** is currently leading Canada's geospatial data efforts related to SDGs by:
 - Leading the **Federal Geospatial Platform**, an enterprise-wide portal for providing access to federal geospatial assets
 - Collaborating with **Statistics Canada**, Canada's social and economic statistics agency, to enable implementation, monitoring and communication of progress on the SDGs
 - **Harmonizing standards** through its work as Secretariat of senior domestic and international leadership committees (i.e., Federal Committee on Geomatics and Earth Observation, Canadian Council on Geomatics)

- Canada has been active internationally engaging on the SDGs and communicating progress:
 - Presentations made by both Stats Canada and NRCan at the **UN**, and in other UN fora (**UN-GGIM**; Mexico City and Stockholm) and international committee chairmanships on SDGs
 - UN Declaration - **Harnessing the Data Revolution for Sustainable Development and Climate Risk Resilience**
 - Canada is lead government co-chair of the **Open Government Partnership** for 2018-19

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International collaboration to realize SDGs, and next steps

- Geo-enabling the SDGs will be critical for tracking and monitoring progress, and communicating with citizens and other stakeholders
 - The UN has acknowledged the need for earth observation and geospatial data to measure and monitor progress on SDG targets

- Moving forward, it will be essential for National Mapping Agencies to work together on standards and interoperability for collaboration on Sustainable Development Goals, and also to enable further:
 - Integration of statistical and geospatial data
 - Realization of benefits from embracing new remote sensing technologies; the Cloud
 - “Big data” analytics, including machine learning
 - Citizen engagement, including through crowd-sourcing data, applications
 - Knowledge transfer

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Thank you

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Open Maps (<http://open.canada.ca/en/open-maps>) is the public face of
the Federal Geospatial Platform

