

# 112<sup>TH</sup> OGC TECHNICAL COMMITTEE

## THE CANADA FORUM LE FORUM CANADIEN

ON GEOSPATIAL STANDARDS SUR LES NORMES GÉOSPATIALES

SEPT 10-2019

Que devrait faire la communauté ensuite? What should the community do next?

Meeting in: BANFF-AB - TREATY 7 TERRITORY

Eyarehey Totanga Wawayehgey Wakān - Sleeping Buffalo Mountain

#OGC  
#OGC19CA  
#OGCAFORUM



Équipe Canada à la conquête de la coupe STANLEY géospatiale!

**CANADIAN SUCCESS STORIES**

PROJETS INNOVANTS

Arctic SDI - 8 Circumpolar agencies

NOW how to trans- late back to Canada

ASPIRATION: 6-dimensional Canadian Digital Arctic

How can Canada demonstrate its standard leadership to help SOLVE current & future geospatial challenges?

Comment le CANADA peut-il développer et démontrer son LEADERSHIP pour aider à RESOUDRE les défis - ACTUELS et FUTURS du géospatial?

PORTAILS, PLATEFORMES et INFRASTRUCTURE

- Arctic SDI GeoPortal > OSKARI
- Polar data catalogue > Waterloo
- CFS fire propagation MODELING & monitoring
- Portals accessed through CCCS - Climate Atlas
- ClimateData.ca - Temp Precipitation Combs SOON!
- PAVICS visualization
- ALSO: CCCS Climate Services

WHAT IS going on TODAY

...where is our WATER? ...and how much is there?

- NEW (1 year old) WATER program @ NRCan >> INTRA-agency collaboration under CMEO
- Canada flooding in data to GEBCO: Nippon 1x1 km sea floor mapping
- \$1.5 B National Oceans Protection Plan >> dynamic hydrographic products & services USING OGC web services
- Mohawk Council of Kahnawake
  - building new solutions to efficiency, resilience tradeoffs
  - Data layers
  - Overlaps of responsibilities
  - Creating redundancies

**ARCTIC**

TRUE NORTH strong & free

CLIMATE A effects 2-2.5x magnification in ARCTIC

remote communities, sensitivity of permafrost to QUALITY of life, infrastructure CHANGEMENTS climatiques

RESPOND during disaster, eg. hurricanes, to IN Canada - Focus on FIRE & FLOOD

improve predictive modelling monitoring during FIRE & LANDSLIDES

DÉSASTRES NATURELS

IT'S AN EXCITING TIME < NEW sensors & datasets! >

ALSO SCARY... Hurricane Dorian

NEED INTEROPERABILITY contribution & COLLABORATION to manage the CHALLENGES

**Coasts-oceans**

Understanding is CRITICAL for:

- The Arctic
- Natural disaster preparedness
- System surge, inundation mapping
- MORE predictive, precise
- MARINE shipping & MARINE safety
- MARINE ENVIRONMENT protection
- Economic development & BENEFIT of Indigenous & Coastal communities
- SPATIAL info to the people who CAN USE IT
- Smart and Sustainable communities

**CLIMATE CHANGE Creates new NEEDS & interrelationships**

**NATURAL DISASTERS & EXTREME EVENTS**

Economie, innovation, croissance

WHAT is the NEXT big innovation?

- LOG tech trends
- Data science
- LIAN / IAS
- IoT (edge computing)
- Web of data
- Digital twin
- Simulation, prediction
- + ALSO NLP!

GDP exports IP

**THE VALUE & NEED FOR STANDARDS**

... Not just metadata

Standards include: SERVICES, API, policy, Communities of Practice, best practices

**SMART & RESILIENT COMMUNITIES**

Many new challenges:

- INCREASED urbanization
- WORLDWIDE (80% urban living in Canada); ISOLATED RESERVES with very young populations
- DESIRE to mobilize DATA & TECHNOLOGIES
- ENVIRONMENTAL - reduce energy consumption
- ETHICAL, ACCOUNTABLE & TRANSPARENT
- operating + balance
- ECONOMIC DEVELOPMENT, SOCIAL PROGRESS & ENVIRONMENTAL RESPONSIBILITY

NRCan OPEN CITIES Smart guide

**FEDERAL GEOSPATIAL PLATFORM**

**Alphabet SIDEWALKLABS TORONTO**

We are EXPERTS at BRINGING LAND & SEA TOGETHER!

**OGC Pilot Project COASTS & OCEANS MULTI-ORGANIZATIONAL STANDARDS DEVELOPMENT**

Canadian Hydrographic Service taking lead role OGC, IHO, ISO, Industry

SMART CITIES CHALLENGE WINNERS

- Bridgewater, Nova Scotia
- Newport Communities
- Greater Wellington, ON
- Montréal, Québec

**Meri & Thank you**

VOLUNTEER CHAIRS

- Aurelian Constantinescu, CAE
- Bradford Dean, mck
- Andy Hoggarth, Teledyne CARIS
- Tom Landrey, CRIM
- Cameron Wilson, NR Canada
- OGC FACILITATOR Trevor Taylor

Debutons notre péripe VERS MONTRÉAL

INNOVATION & ECONOMY

- Innovation Showcase
- "dry run" OGC #115
- Geonette June 22-2020
- working group; mailing list

INDIGENOUS COMMUNITIES

- Indigenous Mapping workshop (October)
- WHITEPAPER - Indigenous SDI
- NATION to NATION guideline BEST PRACTICES eg addresses

STANDARDS CoP

- DRAFT standards strategy roadmap + CONSULT & VALIDATE
- METADATA register
- OUTREACH resources, webinars + NEW members!
- DATA must be: Findable, Accessible, Interoperable, Reusable

academia

- UPDATE list of networks
- WHITEPAPER: state of geospatial educational & research
- SURVEY different FUNDING possibilities
- RAISE awareness of innovation Programs - eg OGC

JUNE 2020 MONTRÉAL

Bienvenue à la communauté géospatiale!

OGC #115 D'un océan à l'autre!

GRAPHIC RECORDING BY ALI MARSHALL @STRIX.CA

SEPT 2019 • OCTOBER • NOVEMBER • DECEMBER • JAN 2020 • FEBRUARY • MARCH • APRIL • MAY... JUNE!

More information on the Canada Forum: [https://external.opengeospatial.org/twiki\\_public/CanadaForum/WebHome](https://external.opengeospatial.org/twiki_public/CanadaForum/WebHome)

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