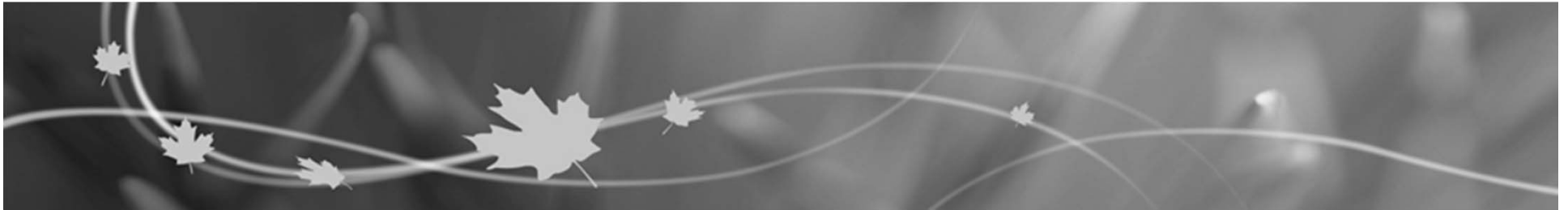




Environment and
Climate Change Canada

Environnement et
Changement climatique Canada

Canada



Introduction to the MSC's Collaborative Monitoring Initiative

*Serge Hagan-Deschamps
Atmospheric Monitoring & Data Services Division
Meteorological Service of Canada
November 7th, 2018*

Context for Monitoring in Canada

...large, diverse, remote, hostile, northern environment
...small, unevenly distributed (demanding) population



Collaborative Monitoring

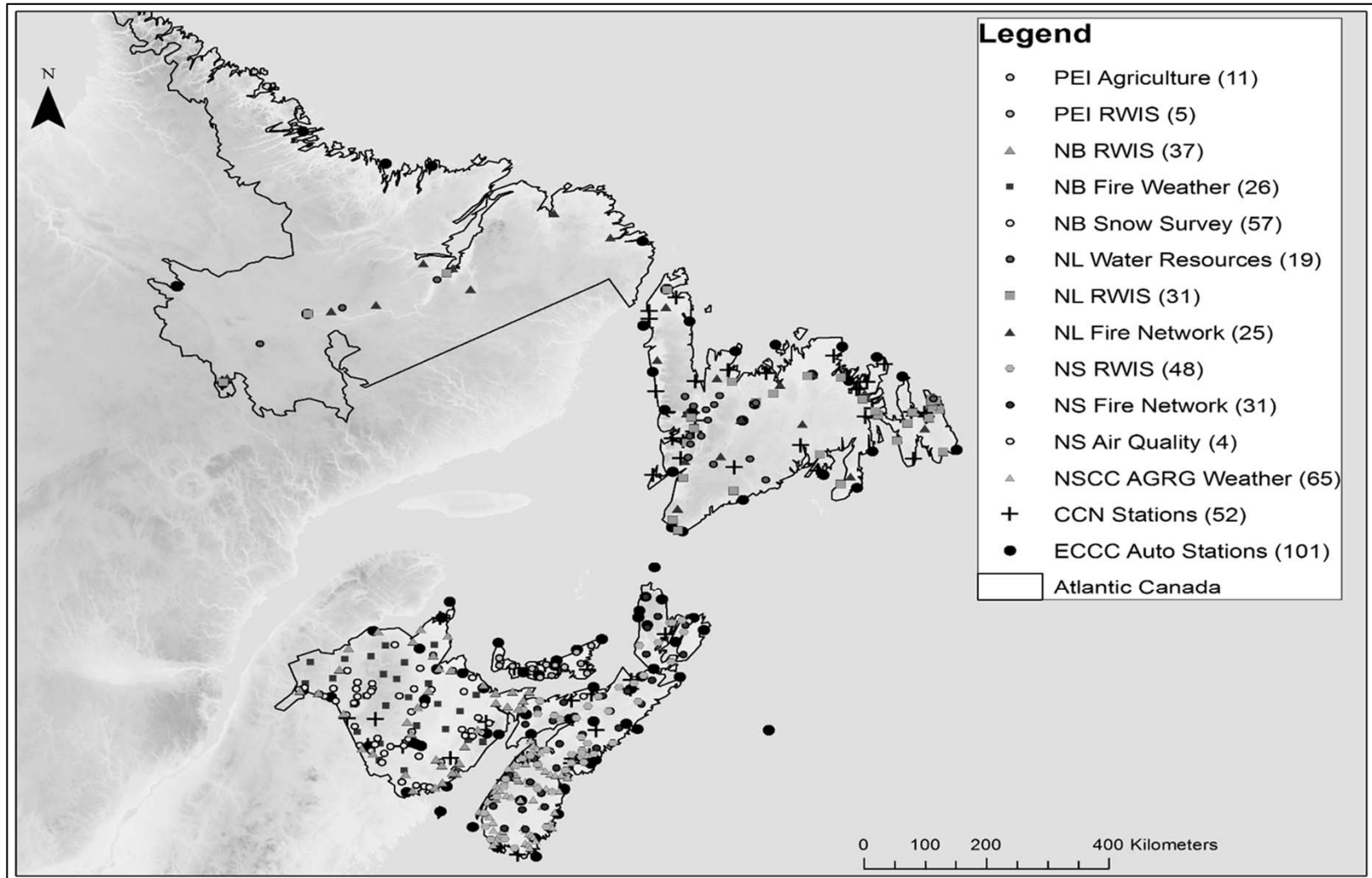
ECCE/MSV Vision...national?



Over the next 5-10 years ECCE will respond to the government priority of strengthening our national capacity to monitor severe weather and climate change through collaboration with Provinces & Territories and other data owners

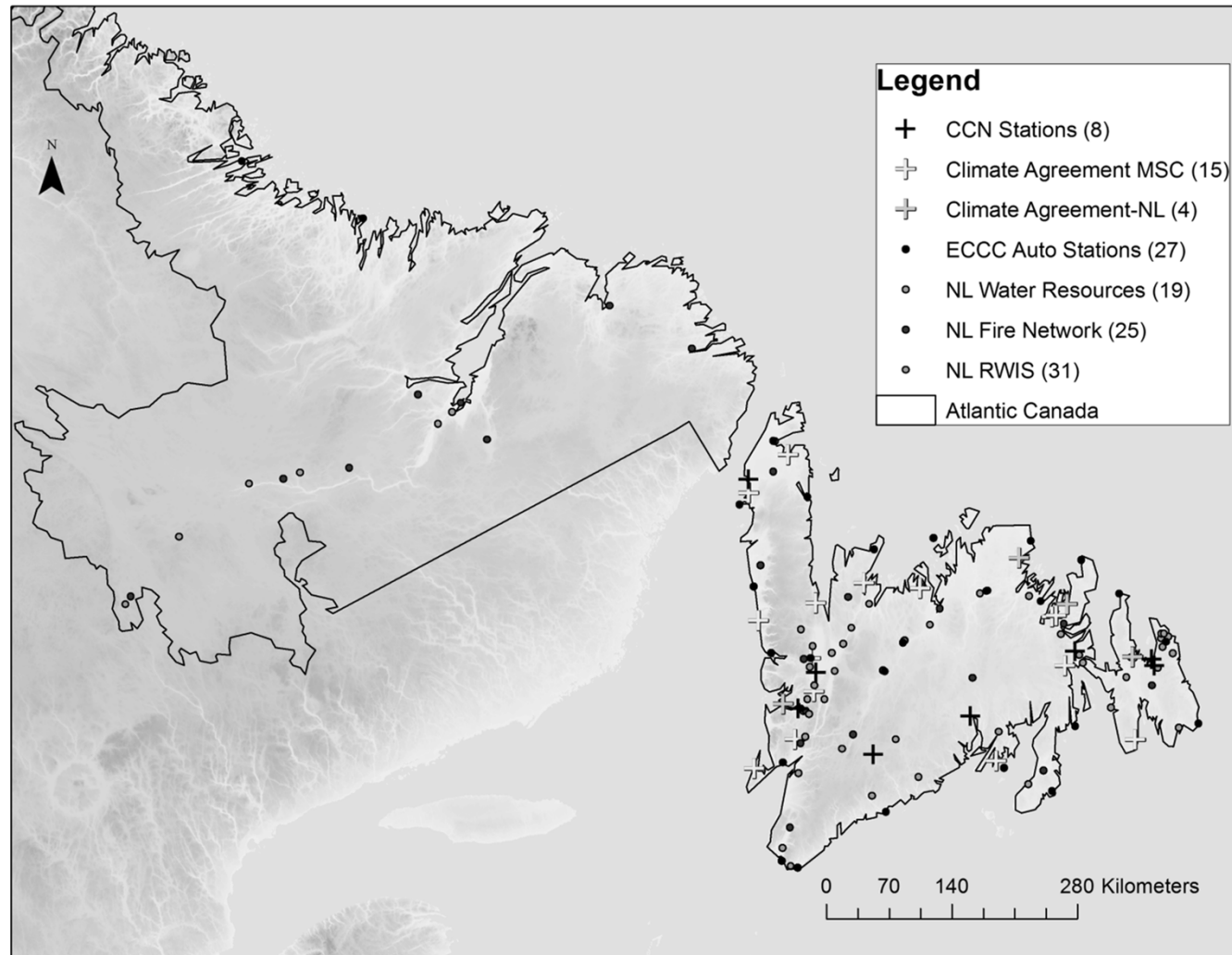
Collaborative Monitoring

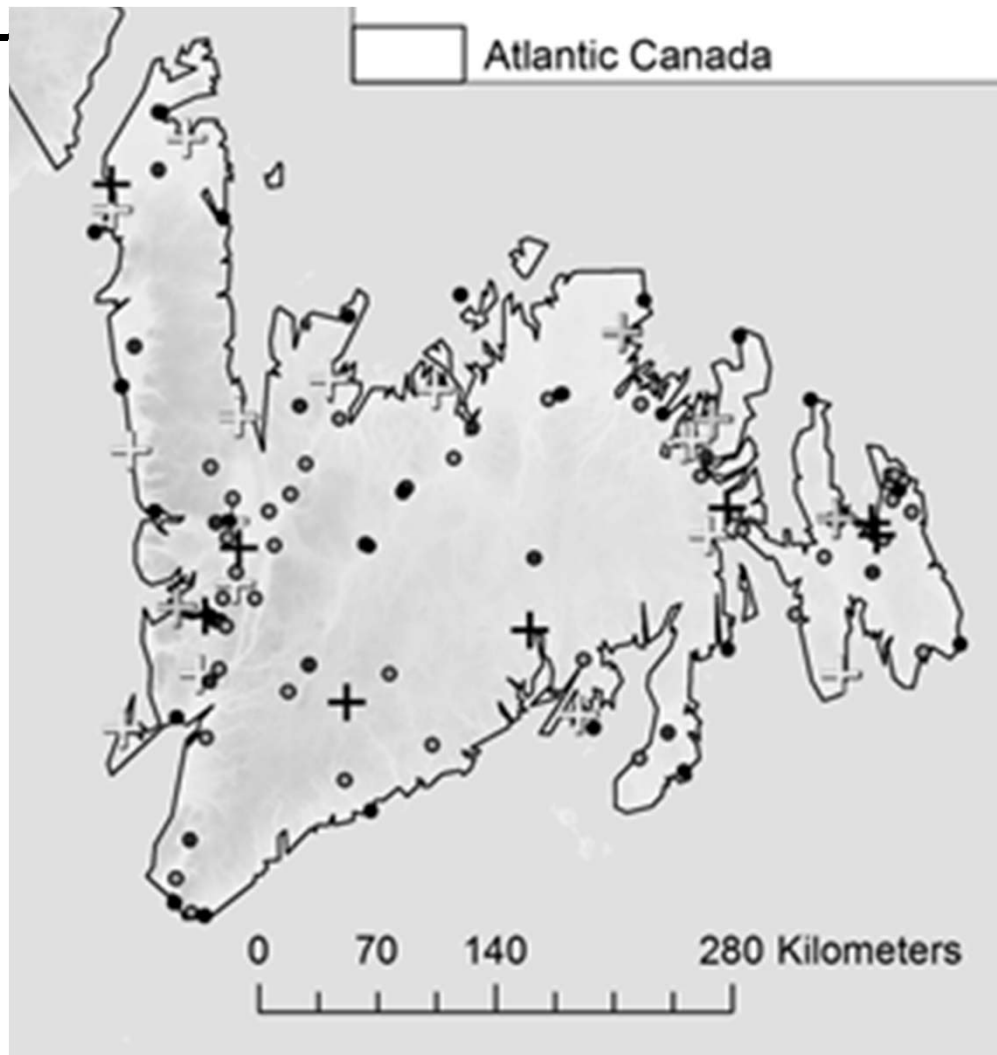
Current monitoring networks (Federal & Provincial) in Atlantic Canada



Collaborative Monitoring

Current monitoring networks (Federal & Provincial) in Newfoundland & Labrador





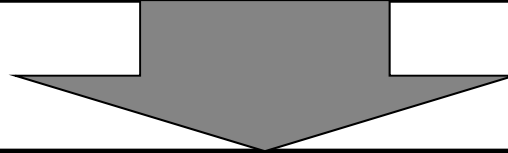
Collaborative Monitoring

Initiative has evolved...



Initial focus on Data Exchange (Network of Networks)

- Enhance the access, quality and interoperability of hydro-meteorological data in Canada for the benefits of all users
 - *Free & Open Data Exchange*
 - *Data of Known Quality (metadata)*
 - *Proper Data Attribution*
 - *Voluntary Participation (best-effort)*
 - *Respect for IP rights*

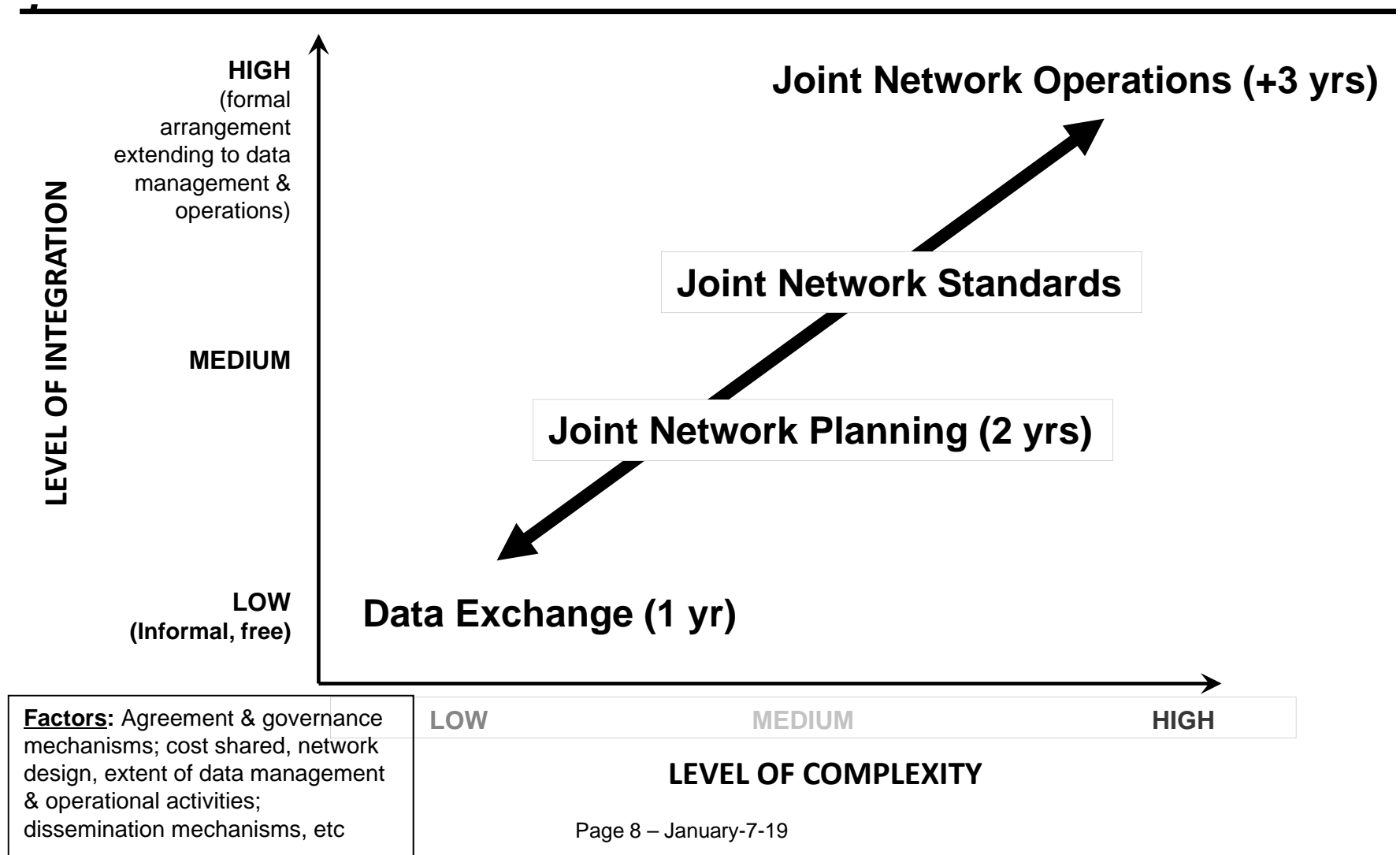


Potential for Collaborative Network Planning & Operations

- Potential optimization of collective monitoring investments
 - Reduce redundancies, improve coverage (i.e. address gaps), etc.
- Potential operational collaboration
 - Infrastructure, Instrumentation, Maintenance, Data-Management, QA, etc.

Collaborative Monitoring

A variety of partnership models are possible



Collaborative Monitoring

Benefits to Canadians

- Potential for operational network efficiencies
 - reduced operational costs (e.g. redundancies, cost-sharing, land access)
 - addressing monitoring gaps
- Potential opportunities to leverage advancements in innovation and technology
 - co-development of Network Management tools
 - assessment and installation of new field technologies
- Improved monitoring to support National climate services and products, and science/research
- Improved quality and accuracy of public weather and water information, forecasts and warnings
- Improved Data Quality
 - promotion of national standards and best practices
 - common quality assessment processes

Collaborative Monitoring

High level of engagement with P/Ts to date...

	Introductory Call	Initial Workshop	Agreement Discussion	Network Planning Analysis	Agreement Negotiation	Signed Agreement
BC	✓		✓		✓	✓
ON	✓	Q3 18-19	Q3 18-19		2013-2019	Q4 18-19
NWT	✓	✓	Q3 18-19	Ongoing	Q3-Q4 18-19	Q4 18-19
QC (MDDELCC)	✓	✓	✓	✓	2018-2019	FY 19-20 (Joint Operations)
QC (others)	Ongoing		Ongoing			
YK	✓	✓	Q3 18-19	Ongoing	Q3-Q4 18-19	Q4 18-19
MB	✓	✓	Q3 18-19	Ongoing	Q3-Q4 18-19	Q4 18-19
NL	✓	✓	Q3 18-19	Ongoing		
ATL	✓		Q3 18-19			

Monitoring & Data Services Coordination

Potential Governance - Monitoring Coordination Committee

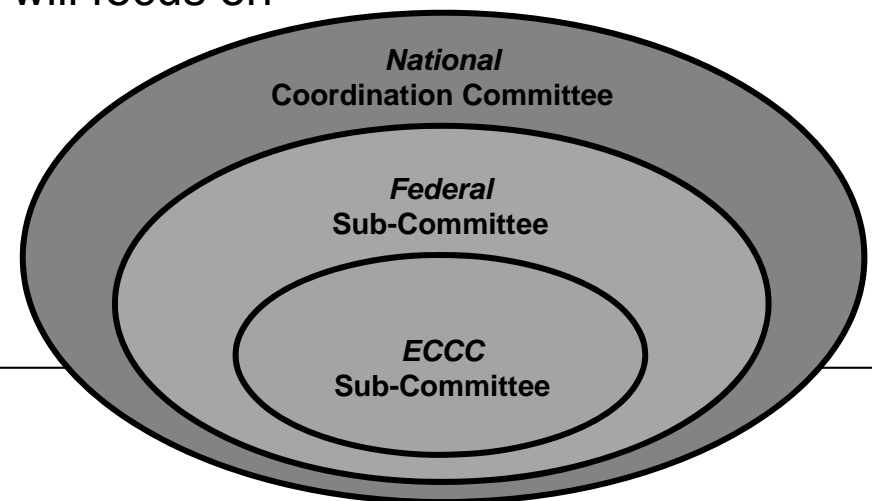
Overview:

The intent is to put in place monitoring coordination committees at all 3 levels of government to:

- Leverage the investments of all Canadian institutions involved in, and dependent on, weather, water & climate monitoring, to provide an effective, efficient, sustainable, national framework for monitoring.
- Optimize the delivery of weather, water & and climate data and information across Canada in support of regional, provincial, territorial and national service delivery, policy development and emergency management preparedness and response.

Committees discussions and activities will focus on 4 key themes (and linkages between):

1. Requirements & Dependencies
2. Partnership and Collaboration
3. Standards & Best Practices
4. Network Evolution



Questions, comments...

Thank-You!

Questions & Comments?

Contact Us:

Alex Zucconi: Manager–Network Design & National Partnership Development

Alexander.Zucconi@canada.ca

(416)739-5765

Frédéric Lenormand: Senior Program Coordinator–National Partnership Development

Frederic.Lenormand@canada.ca

(514)283-6013

Kristine Confalone: Physical Science Officer–National Partnership Development

Kristine.Confalone@canada.ca

(416) 739-4591

