

How **DataStream**^{Atlantic} will change the water monitoring game in Atlantic Canada

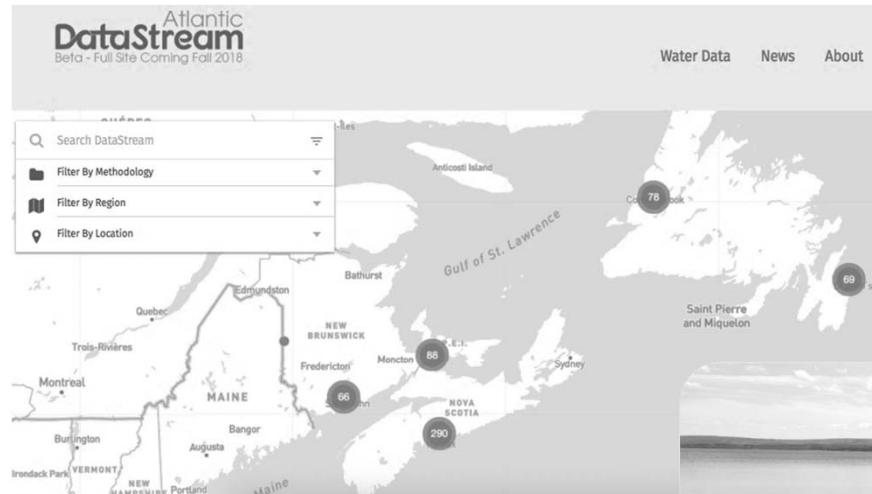
Emma Wattie
Real-Time Monitoring Workshop
November 7th 2018





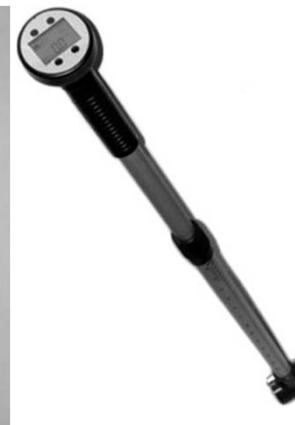
Atlantic Water Network

- Regionally Focused
- ~40 Community-Partners
 - Provide Networking opportunities
- Support to CBWM Organizations
 - Equipment
 - Data Management Solutions
- Work with National Partners



Equipment Bank

- Free resource
- Equipment calibrated before loan
- >50 loans throughout 2018
- >20 users of Equipment Bank



CURA H₂O

Community-Based Water Monitoring and Management

Research project (2011-2016)

Standardization

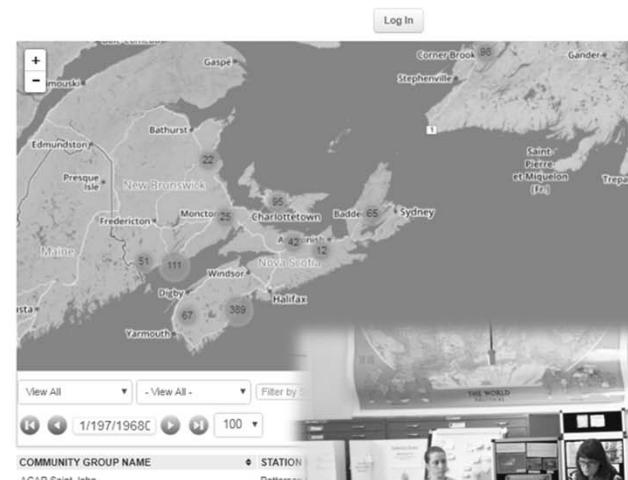
- Training
- Equipment
- Regional water quality dataset



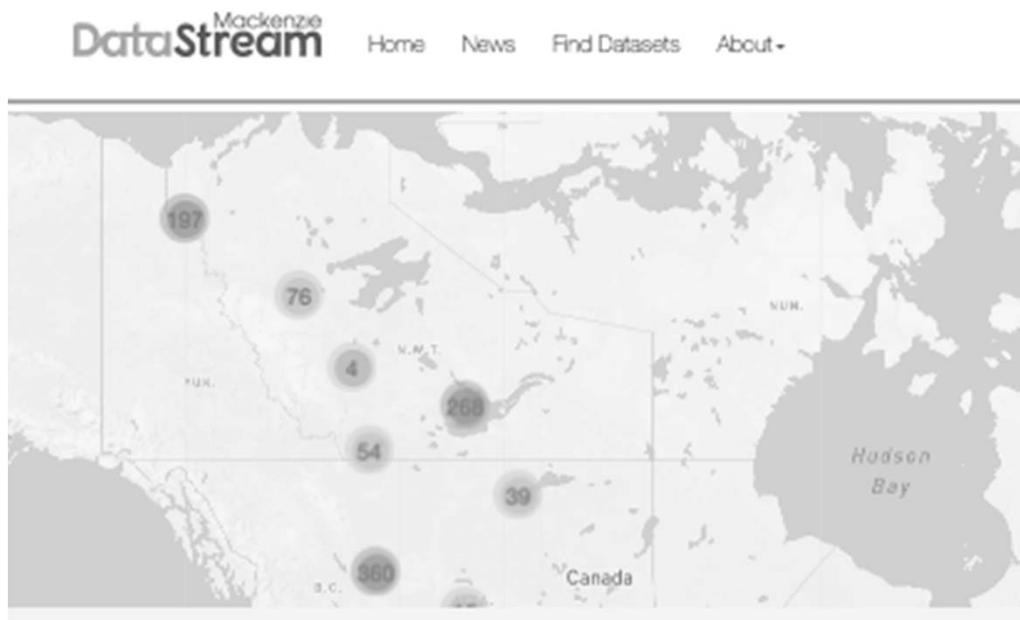
Social Sciences and Humanities
Research Council of Canada

CURA H₂O ended... now what?

- Started to tackle standardization
- Large dataset
- Network of community-based water monitors



Moncton, New Brunswick - January 2017



The Bigger Picture



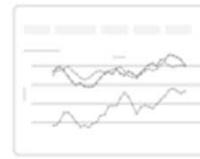
Community

Communities are connected to their waters and best-placed to see changes as they happen.



Policy & Action

Knowledge can be translated into action to protect the health of watersheds on which we all depend.



DataStream

DataStream provides a place to store, share, and compare water monitoring data across watersheds.

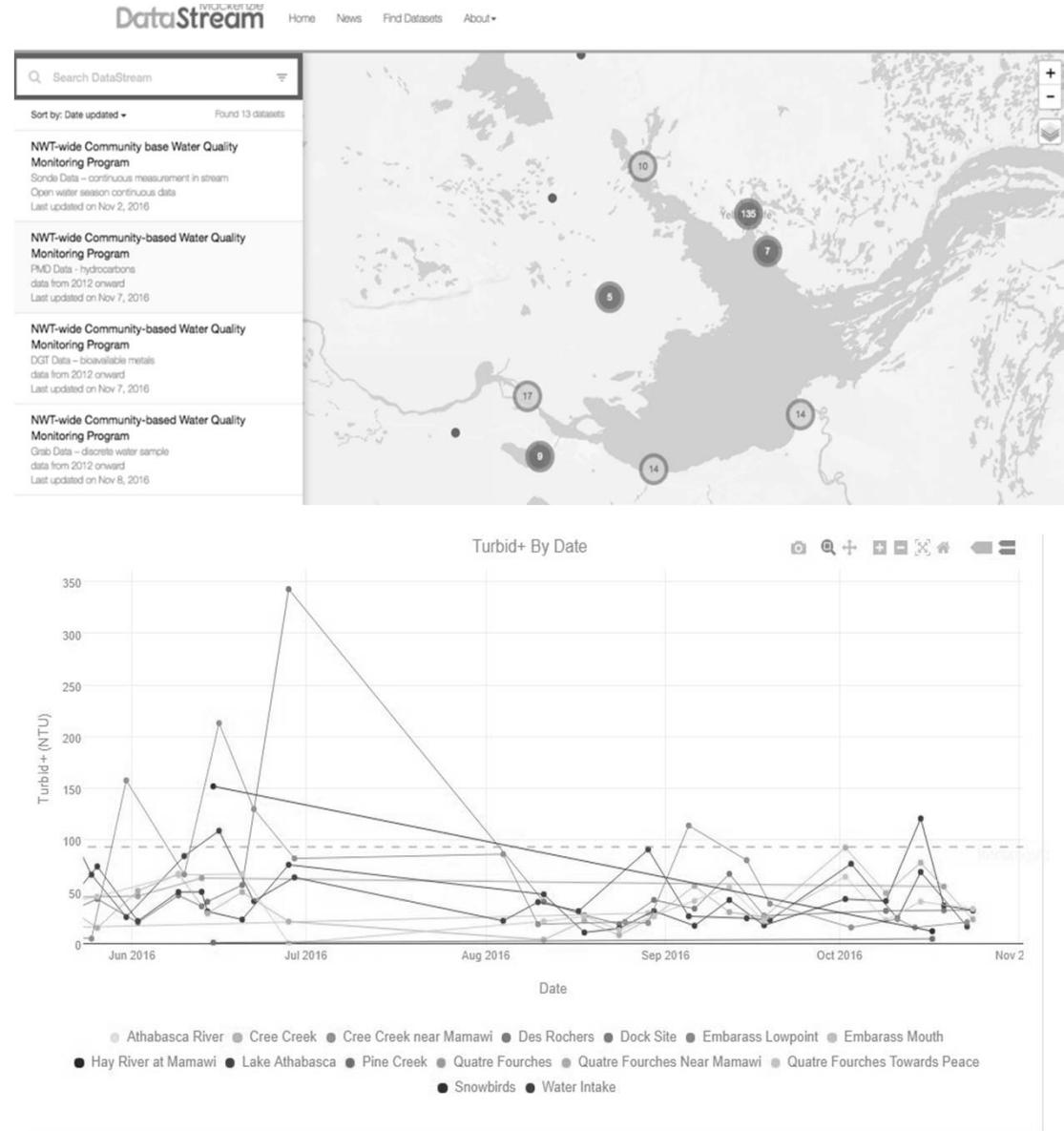


Open Data To Knowledge

Open data advances scientific knowledge, supports collaboration, and fuels innovation.

About DataStream

- **Open access** platform for sharing water quality data
- **Independent** home for data
- **User-friendly** design for public audiences and decision-makers
- **Data Visualization** tools
- Focus on **solid data policies** and practices



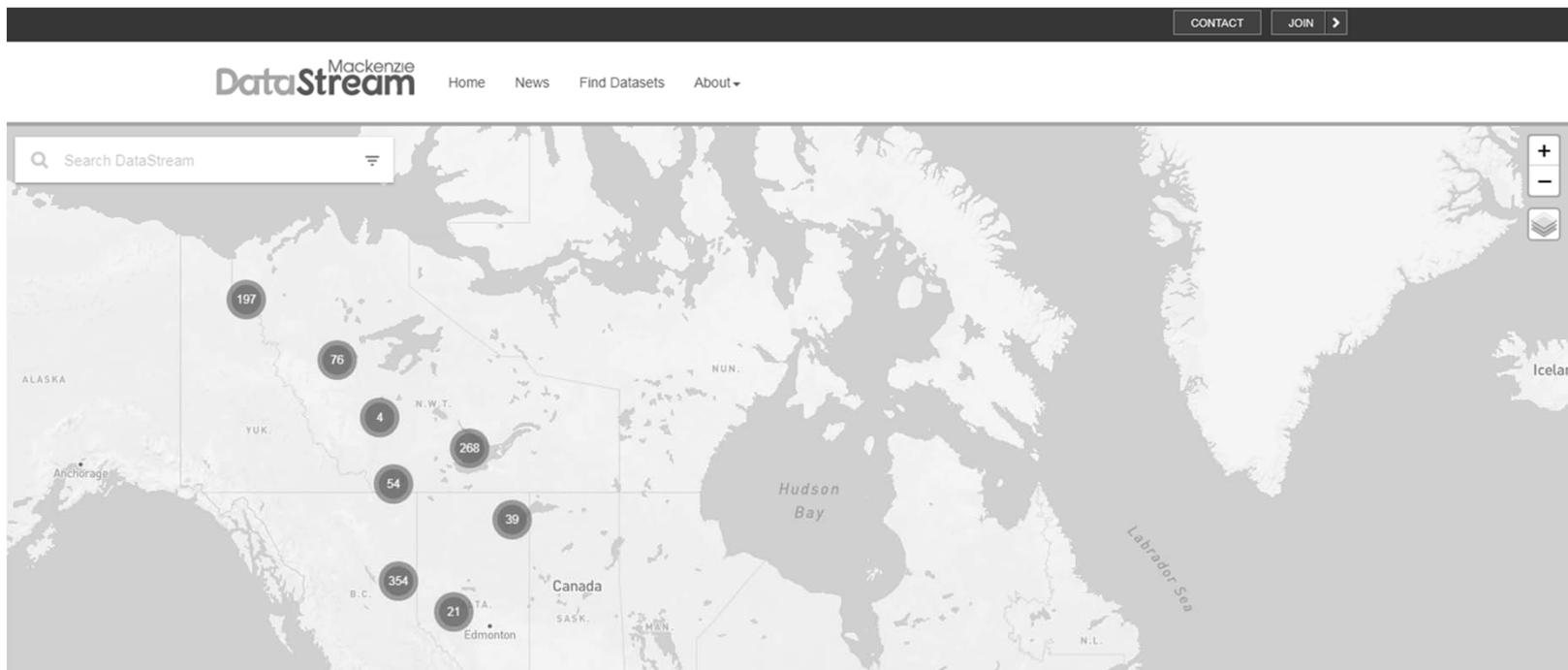
Mackenzie DataStream timeline

Pilot

- 2014: Development begins. Involves considerable support from GNWT and communities and is built by Tesera
- 2015: Launch of pilot in NWT

Official launch:

2015-2016: Refined system based on feedback
2016: NWT launch in Fort Smith
2016: Launch in Ottawa on Parliament Hill



What would work in Atlantic Canada?

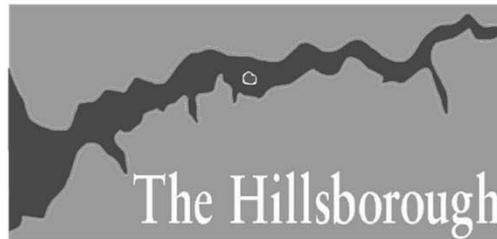


We Listened!

Atlantic DataStream



Atlantic
Water
Network



The Hillsborough

A Canadian Heritage River
Hillsborough River Association



Environment and
Climate Change Canada



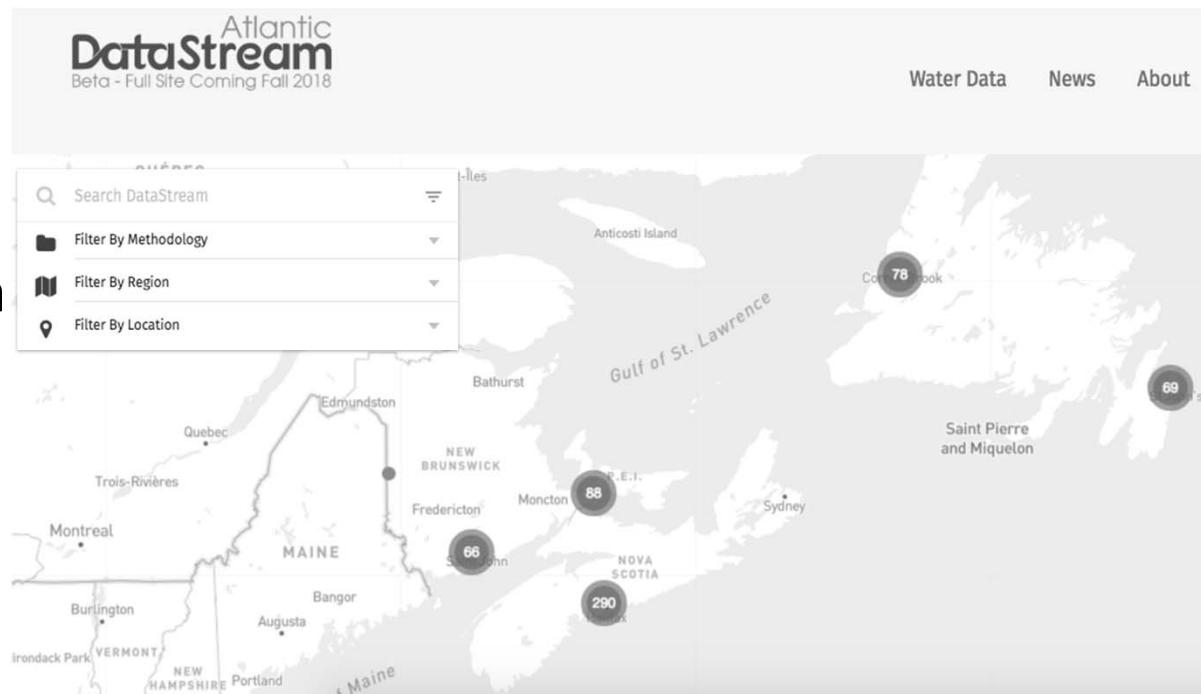
WALTER & DUNCAN
GORDON FOUNDATION



Environnement et
Changement climatique Canada

Atlantic DataStream

- Beta version Spring 2018
- Atlantic Ecosystem Initiative funded project (2018-2020)
- AWN community partners' data online!
 - 22 groups online
 - + Environment and Climate Change Canada
- Successful proposals to bring more datasets online



DataStream KickOff June 2018



Since the Kick Off

Onboarding new groups



Atlantic
DataStream



Atlantic
Water
Network

Training & Equipment Loans



What this means for Atlantic Canada

- Standardized regional dataset
- Open Access – Easy to Share
- Inform decision makers
 - WWF Freshwater Reports
- Getting out of our silos

Atlantic
DataStream



Atlantic
Water
Network

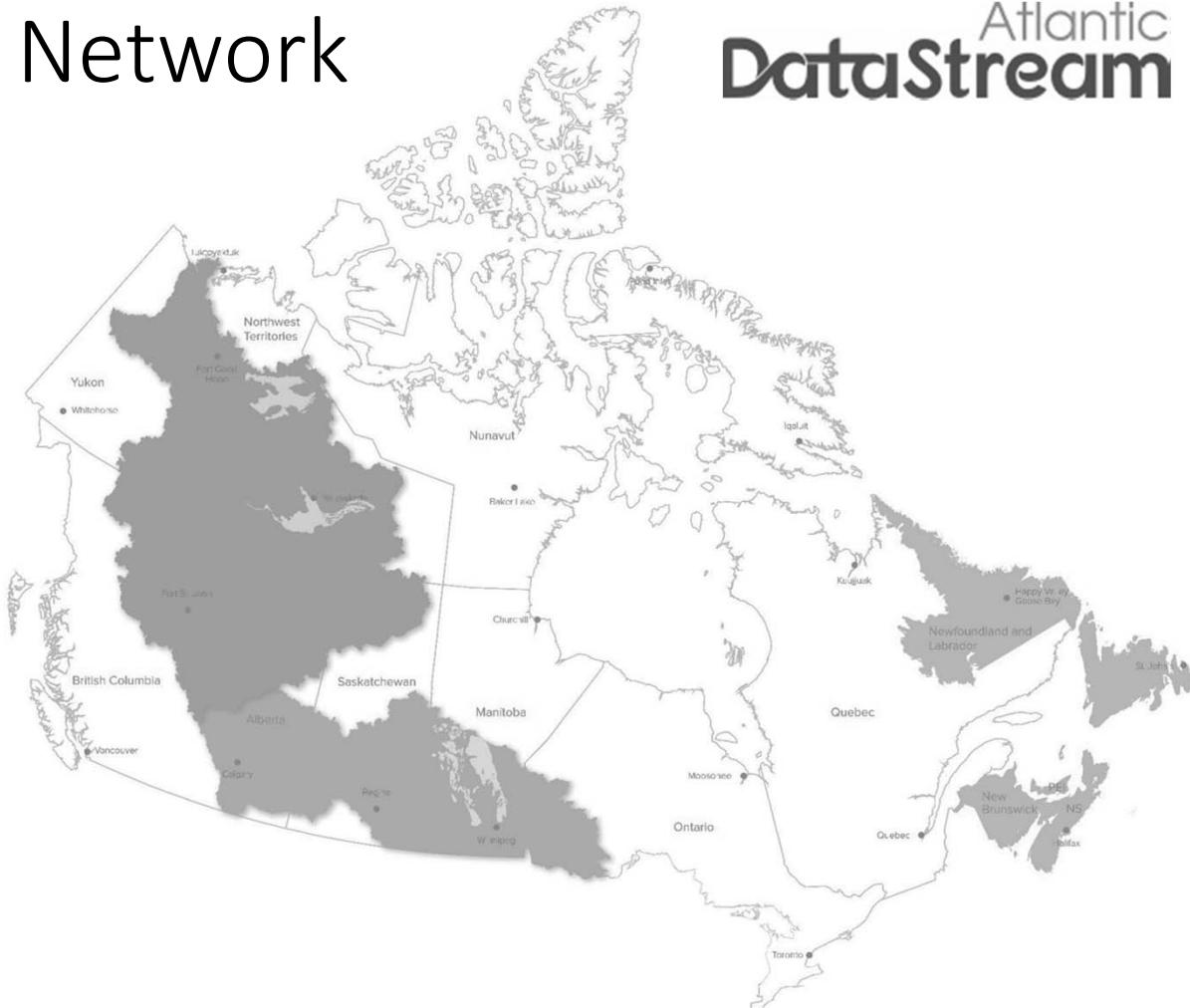


Next Steps

- Grow in Data Contributors
 - New Brunswick Environmental Trust Fund
 - Provincial data sets
- Expand other resources
 - Equipment Bank Expansion
 - Wet-Pro Updates
- Other data management resources
 - Summer training
 - Webinars/Videos
 - Report Cards



Growing Network



Atlantic
DataStream



Atlantic
Water
Network

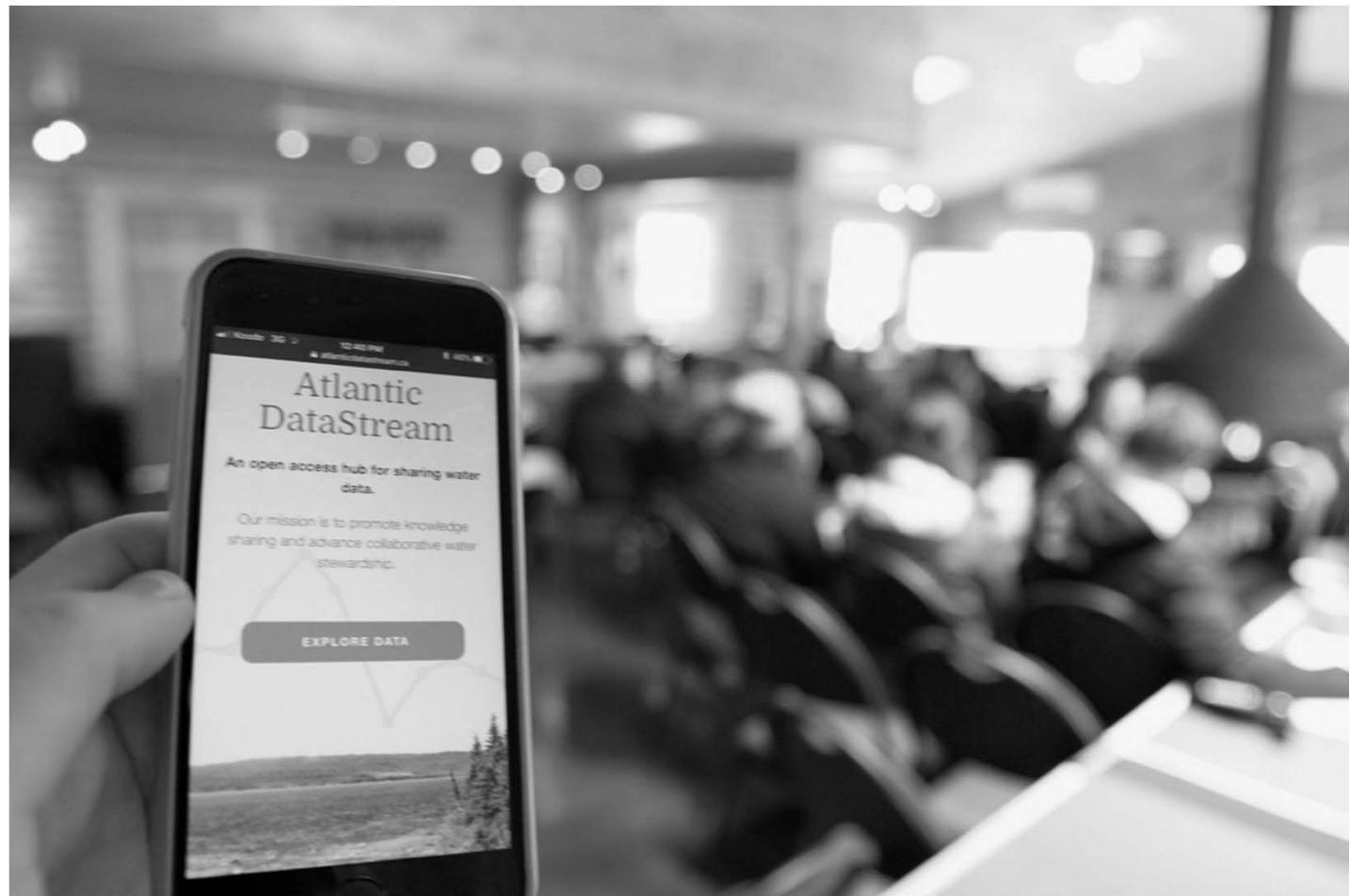
Demo

www.atlanticdatastream.ca

Atlantic
DataStream



Atlantic
Water
Network



Thank you!



emma.wattie@smu.ca