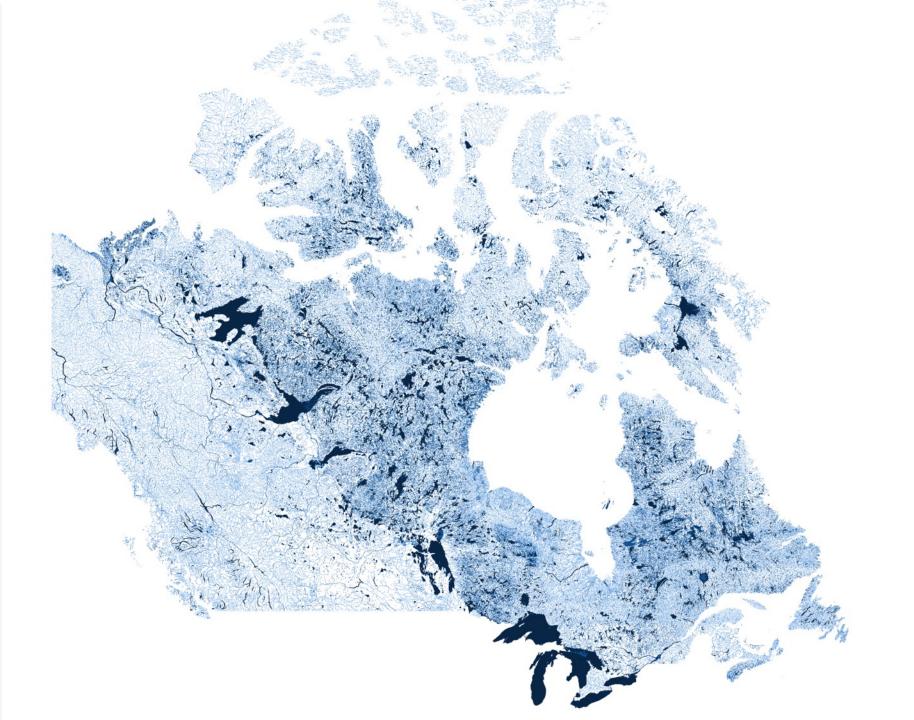


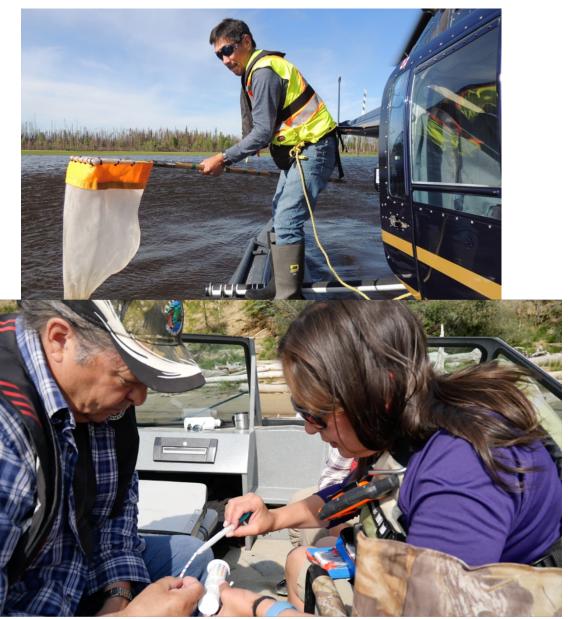


Carolyn DuBois Director, Water Program The Gordon Foundation





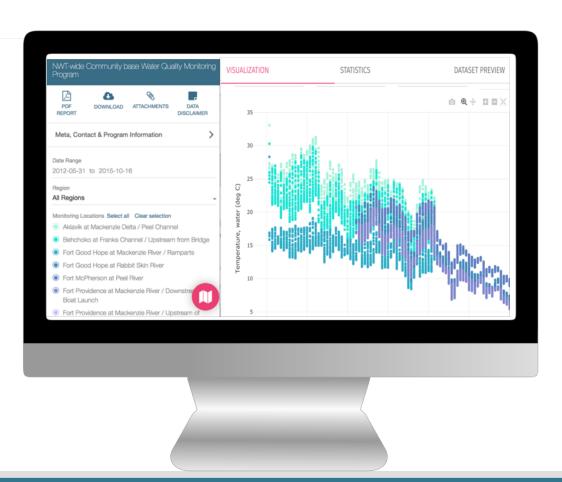




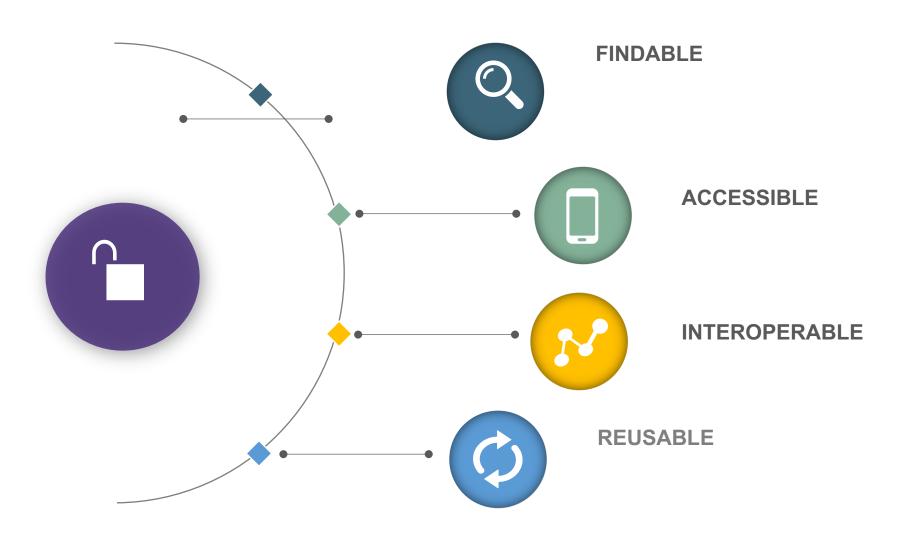
Data Stream

- Open access site for water quality data
- User friendly
- Visualization tools
- Easy text and map searches
- Puts groups and data on the map!





'FAIR' Principles of Open Data





Findable

• DOIs (coming soon)

Google Datasets





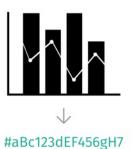


Reusability

- USEPA- WQX Standard
- Clear Licensing (ODC-By and ODC PDDL)
- Blockchain verification system

Atlantic Water Network

2



When a dataset is uploaded to DataStream, a unique data hash is created. This hash reflects the exact contents of the data file in an encrypted form.

Blockchain and DataStream Verification of data authenticity



The data hash is submitted and written into the Ethereum Blockchain. The decentralized nature of the blockchain network means this record is permanent, traceable, transparent and secure.









DataStream users can verify that they are accessing the authentic (unaltered) version of the data through a built-in user interface, or independently verify the record on the Ethereum Blockchain network themselves.

DataStream



Positioning

- Independent
- Neutral: Neither a data producer or data user (or the data police!)
- Not in competition with our users
- Well-positioned for cross-sectoral relationship building
- Program NOT a project
- Sustainable funds from the Foundation but do rely on external funding to grow

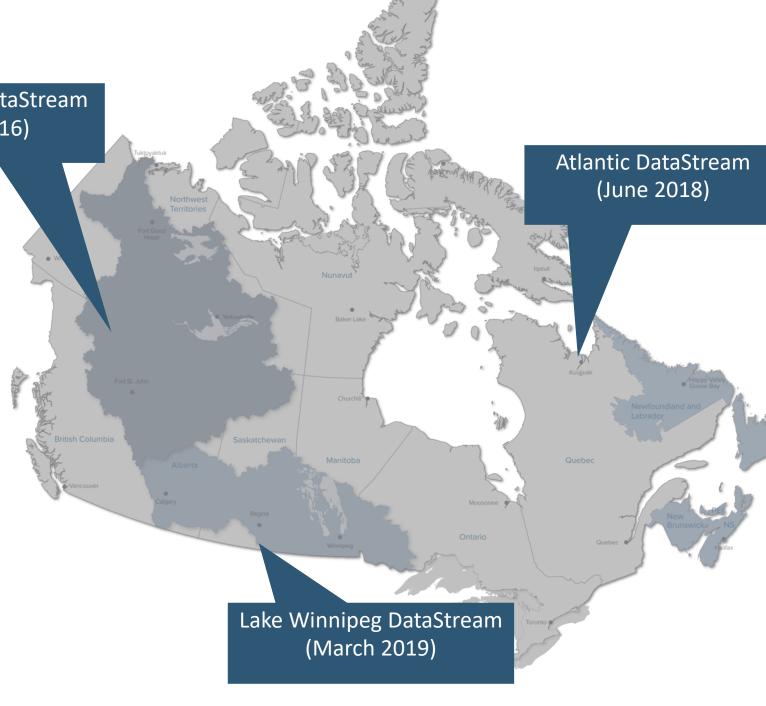


Mackenzie DataStream (Nov 2016)

Regional Partnership Model

DataStream is led nationally by The Gordon Foundation and delivered in collaboration with regional partners

- Government of Northwest Territories
- Atlantic Water Network
- Lake Winnipeg Foundation



DataStream



Future outlook: Thoughts, Challenges & Opportunities

- Becoming part of data holders' business practices
- Reducing work between data collection and upload
- User expectations: finding balance between user facing and backend infrastructure needs (including work to progress in delivering FAIR access to data)- Core Trust Seal?
- Connections with end users of DataStream data.

Regional Partners







Supporters/Contributors











Environment and Climate Change Canada



Thank you



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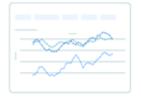


Communities are connected to their waters and best-placed to see changes as they happen.



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.

Data-Policy Cycle Where DataStream fits in