



Data Integration Strategy of the Living Labs Network to Address Climate Change

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Privy Council Office – Departmental Data Leads Meeting on September 14, 2021





Natural Climate Solutions Fund

Government of Canada will invest nearly \$4 billion over ten years (2021-2031) to help Canada achieve its ambitious greenhouse gas (GHG) targets.



2 Billion Trees

Natural Resources Canada (Growing Canada's Forests)



Nature Smart Climate Solution

Environment and Climate Change Canada



Agricultural Climate Solutions

Agriculture and Agri-Food Canada



Living Labs

\$185-million to co-develop, experiment and accelerate adoption of BMPs that store carbon and reduce greenhouse gas.



Address Climate Change using a Living Lab Approach



User-centered innovation

Activities focus on the users' needs and users are involved throughout the innovation process.



Working in partnership

Experts from various disciplines and backgrounds tackle a common issue.



Real-life context

Testing takes place where the users would actually use the technology or practice.



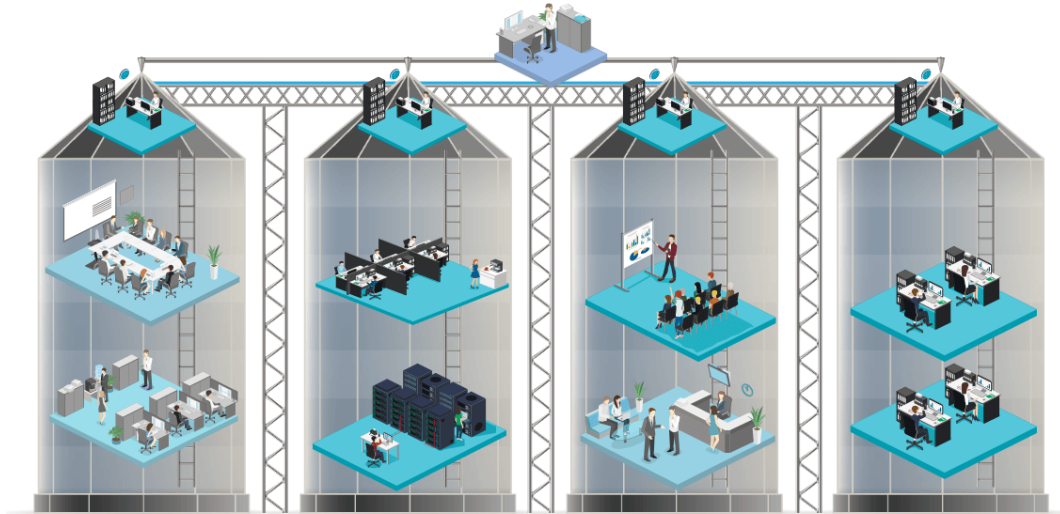
Measurement

A strong Data Strategy is required to track and report progress towards emissions targets.





Problem statement



Data is in silos



Unsecure and
unapproved tools



Data are not
interoperable



Our response to tackle these issues

- A data governance and management framework
- A secure platform to enhance collaboration, data sharing and minimize risk of data loss
- A metadata repository and discovery tool to improve data discovery and data analysis





Towards Open Science



Data Management Plan



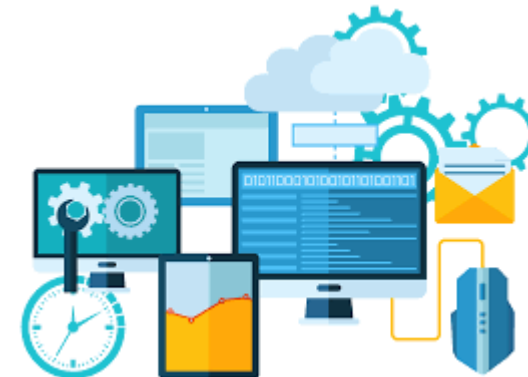
Data sharing agreement and privacy notice templates



Data standards



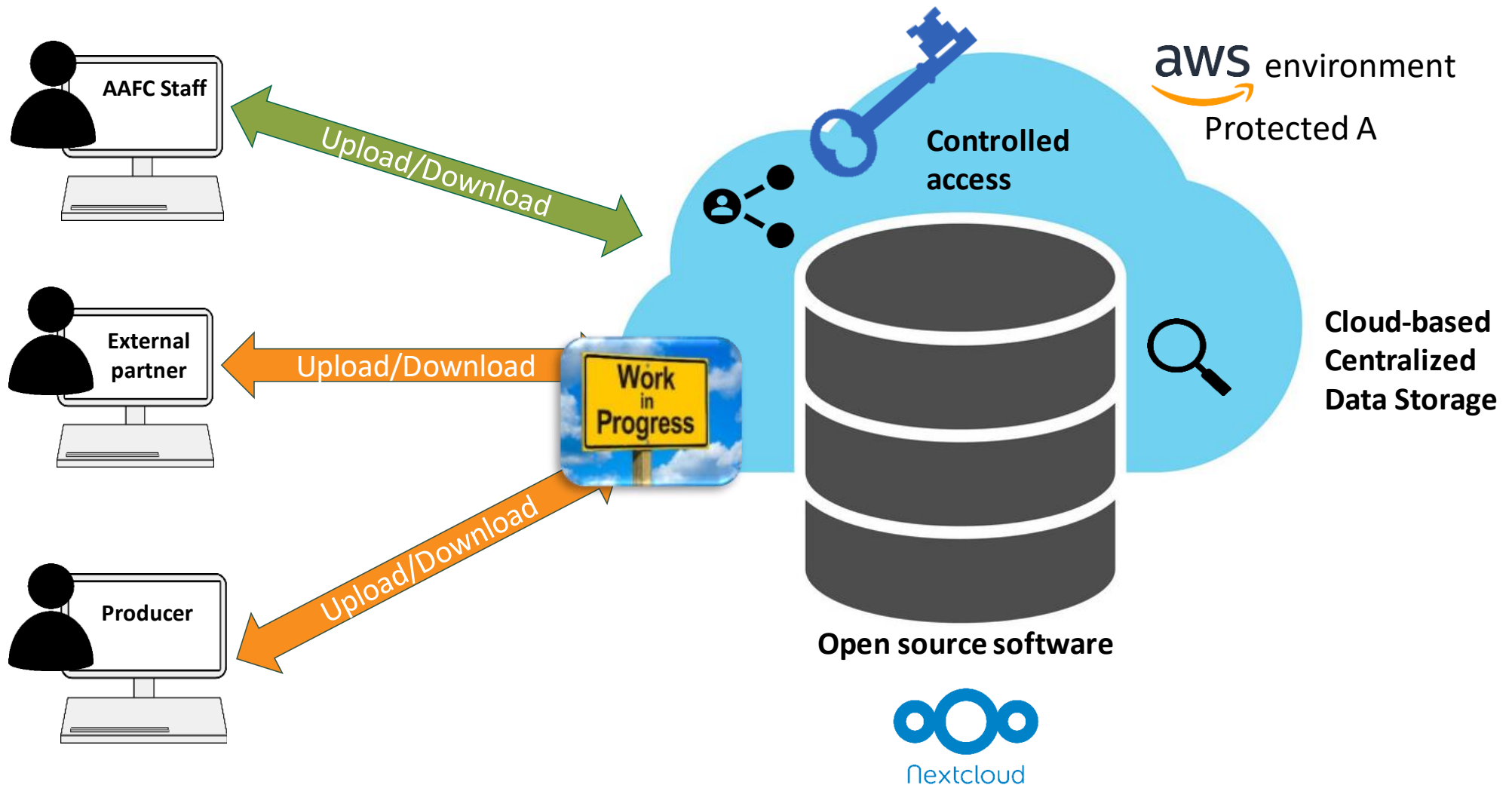
Data inventory



IM/IT Infrastructure



Cloud Data Storage Platform





Data Portal

Isabelle Perron 0

Government of Canada / Gouvernement du Canada [Français](#)

Living Laboratories Data Portal

Datasets | ArcGIS Online | Data Storage

Welcome to the Living Laboratories Data Portal

The Living Laboratories initiative is an integrated approach to agri-environmental innovation in Canada based on close collaboration between farmers, scientists and other partners. Data on the portal have been generated and voluntarily shared by the many partners participating in the Initiative. Search for data using keyword, theme or living lab. Visit often as new data are uploaded regularly.

Search:

Browse by Theme:



Soil



Atmosphere



Water



Biodiversity

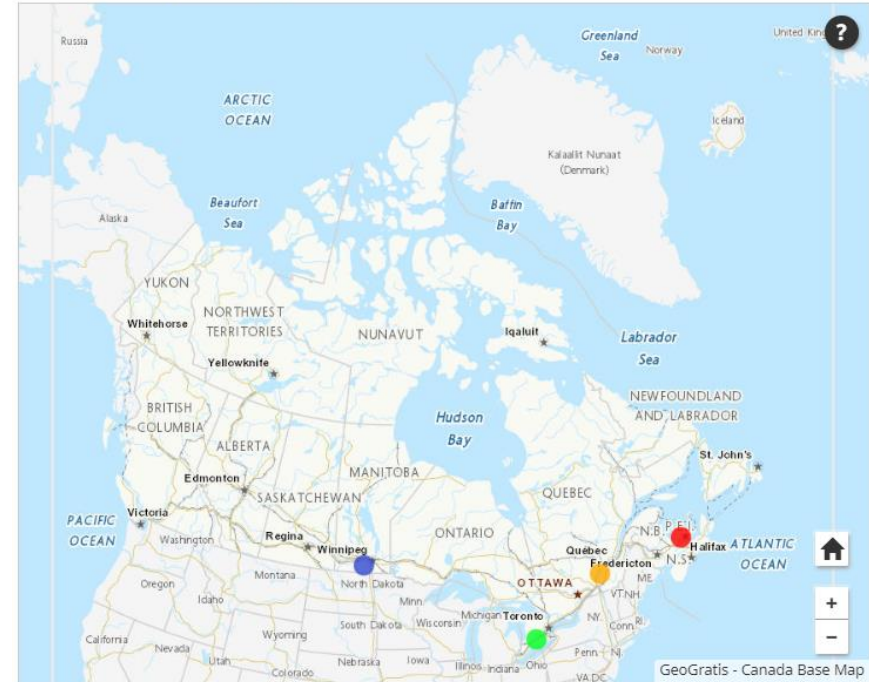


Landscape



Socio-Economic

Browse by Living Lab Site:



Living Lab Locations in Tabular Format

Living Lab Location

- [Atlantic Datasets](#)
- [Eastern Prairies Datasets](#)



Early Lessons Learned



Consistent, regular discussion regarding culture change is necessary



Simpler processes enable end-user adoption



Development of new technologies is challenging, plan ahead



What are the Next Steps?



Promotion of sound Data Management Practices



Strengthening the IM/IT Infrastructure adoption



Integration of Big Data, APIs and other Cloud Computing Services



Using the Platform for other internal programs to leverage existing investment to reduce GoC costs

AGRICULTURAL CLIMATE SOLUTIONS



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Agri-Food Canada

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Agroalimentaire Canada

Canada