

AMUT Database



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Data Sources

Transport Canada, Department of Fisheries and Oceans, Canadian Coast Guard, Canadian Ice Service

{potentially} Canadian Hydrographic Service, Polar Dialogue, etc.

Example datasets

Hydrography, bathymetry, accident locations, marine mammals, infrastructure, cultural heritage, sea ice and iceberg trends, industrial development, settlements, sensitive sites, etc.

Initial steps

Sourcing datasets

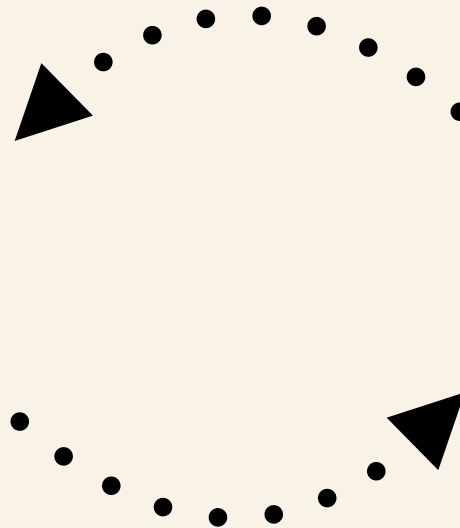
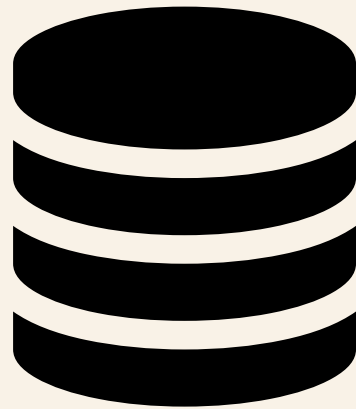
Choosing and implementing software, testing

Transforming data into a common Geographic
Coordinate System

Building a domain ontology

Enhancing/standardizing metadata

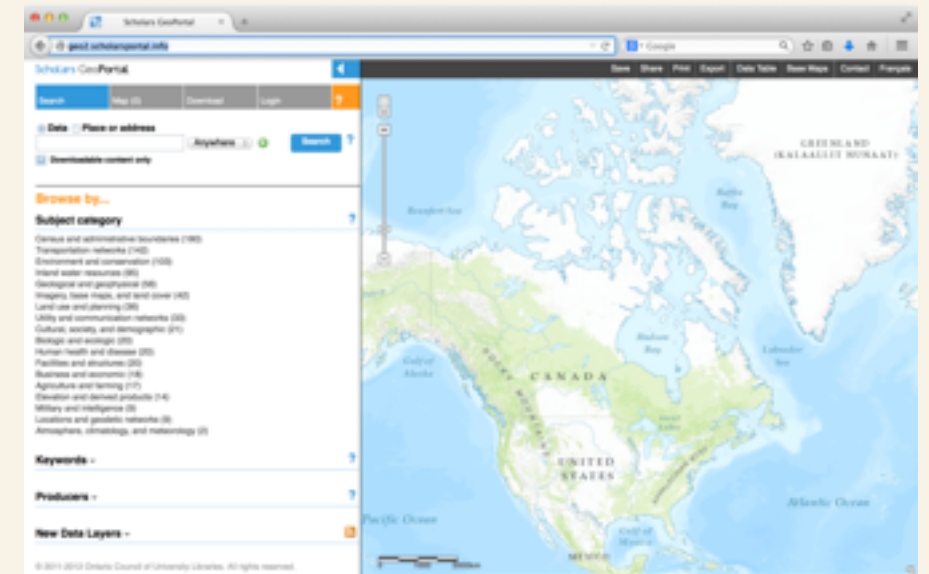
Geoportals



Backend

Data are stored & accessible on server, responds to requests

e.g. ArcGIS for Server, OpenGeo Suite GeoServer

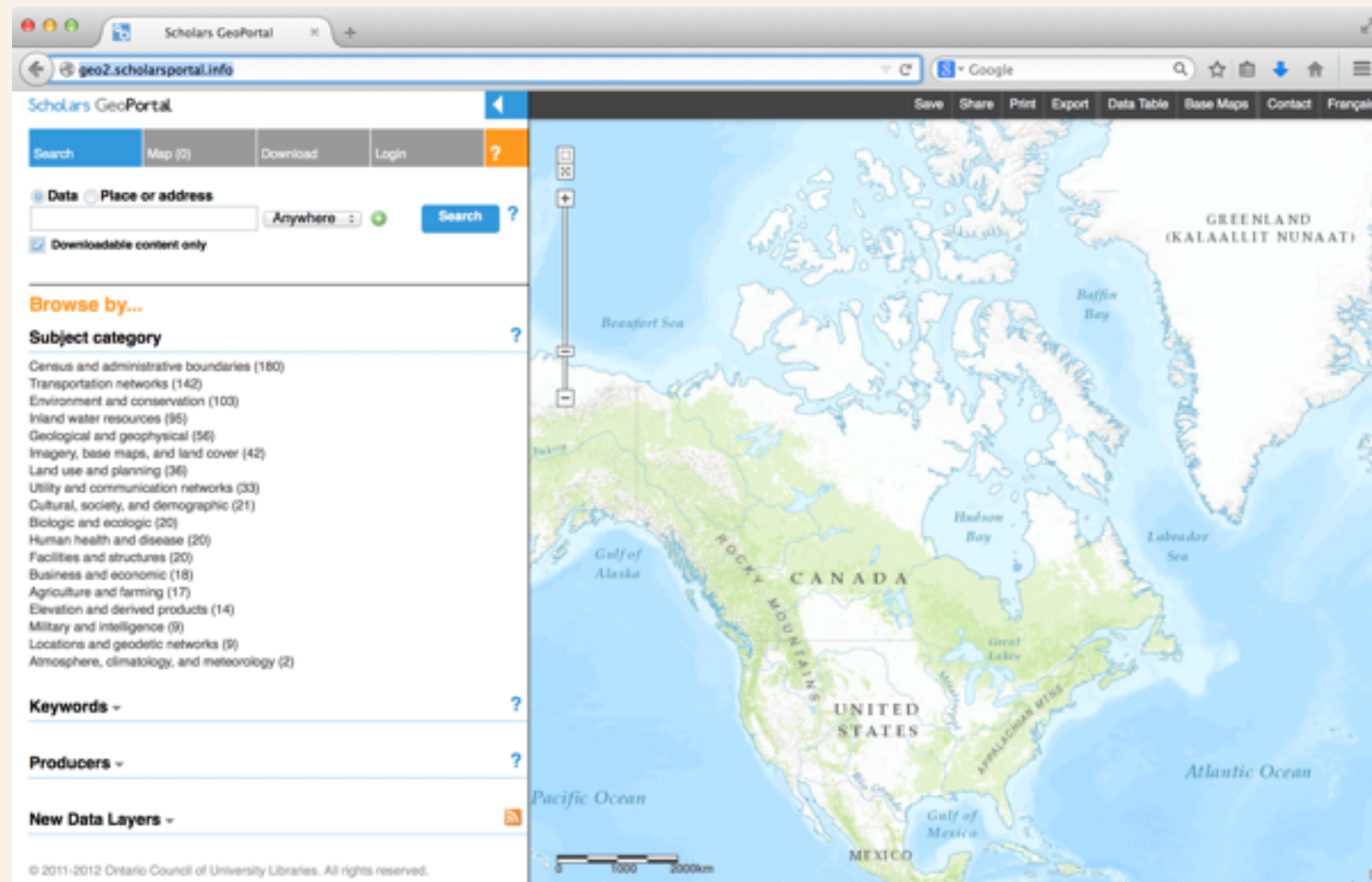


Frontend

Web interface, can view metadata, preview datasets

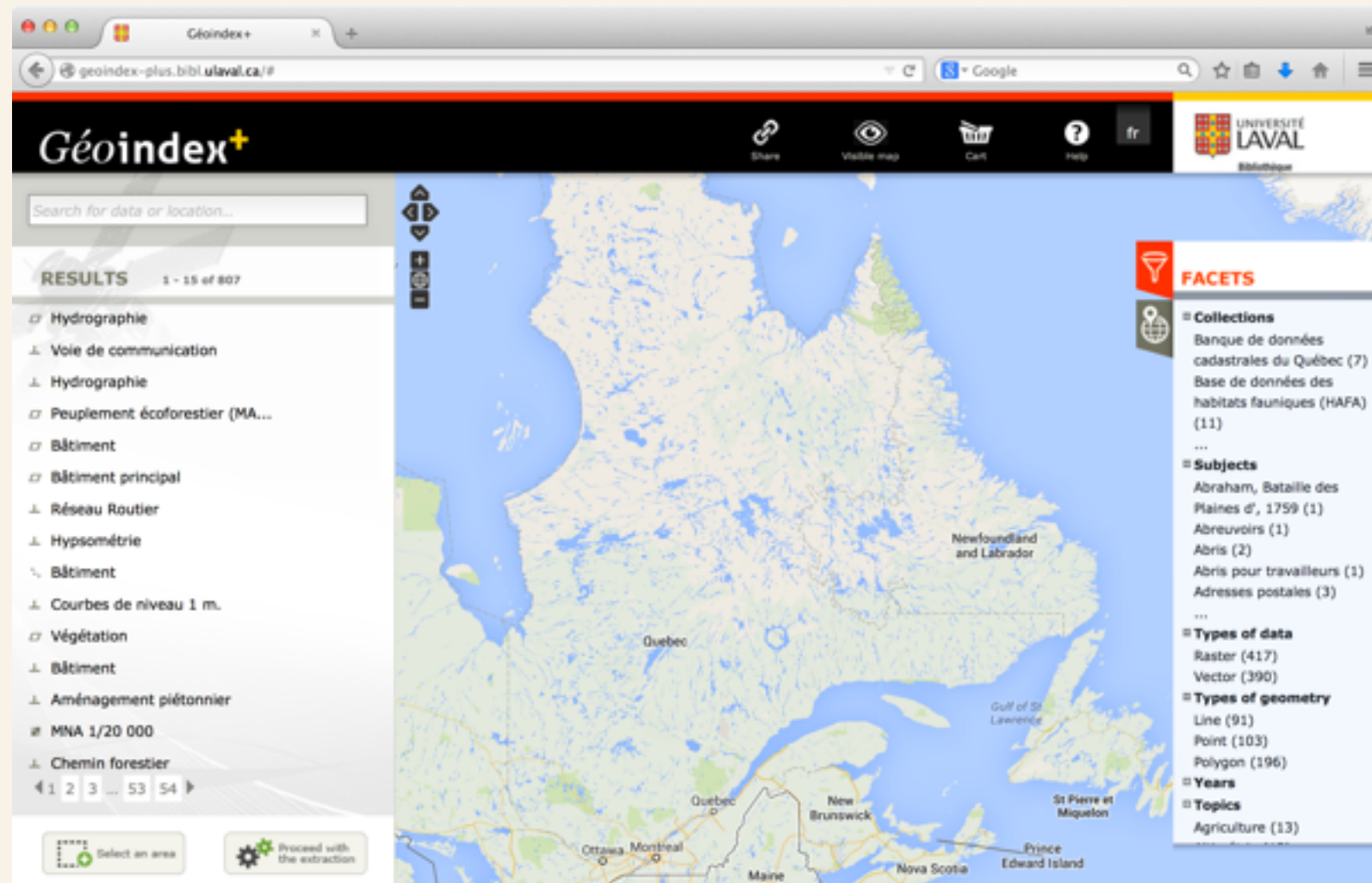
e.g. ArcGIS Javascript API, ArcGIS Online, GeoExplorer

Scholars GeoPortal



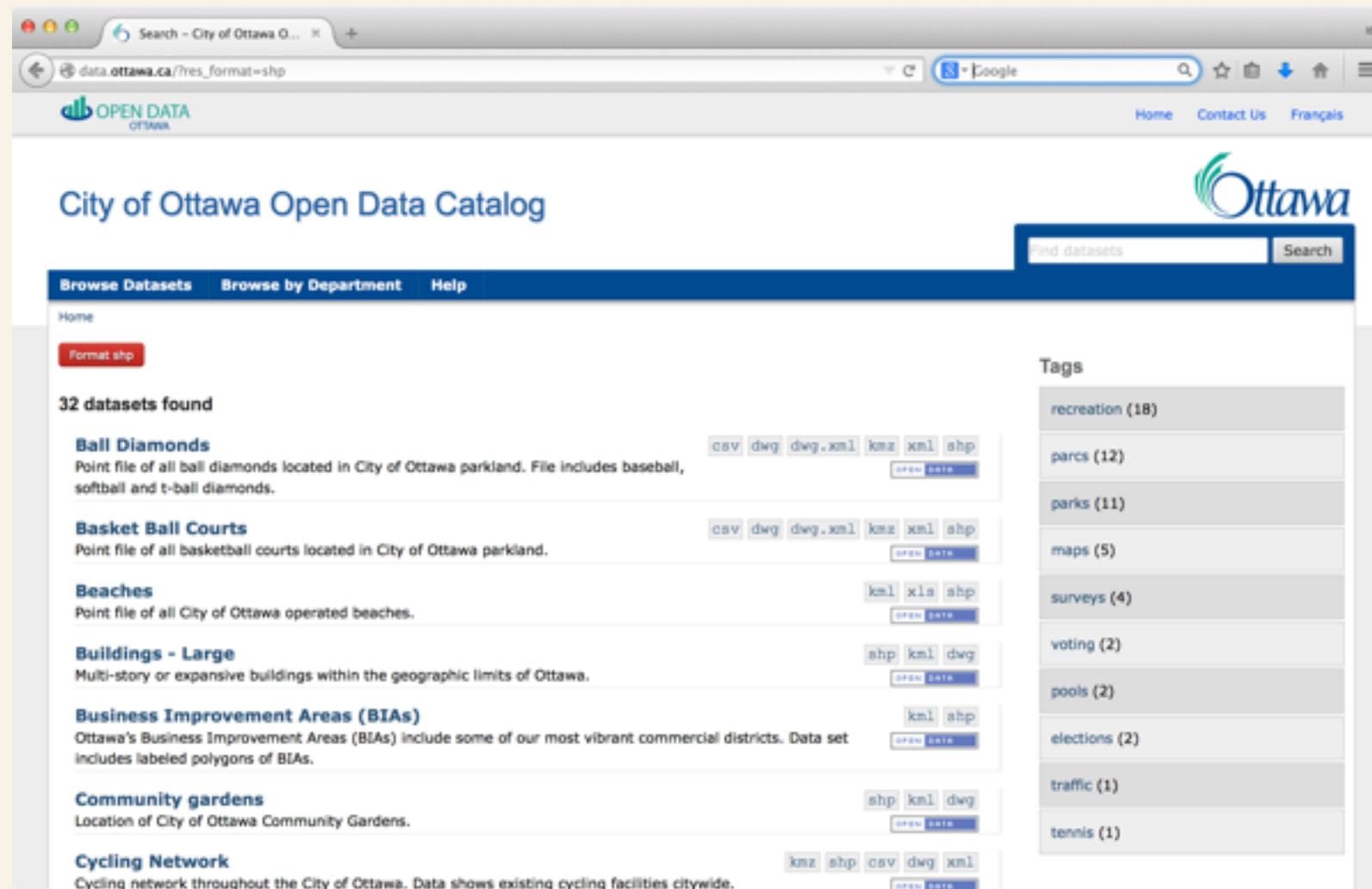
Ontario Council of University Libraries

GeoIndex+



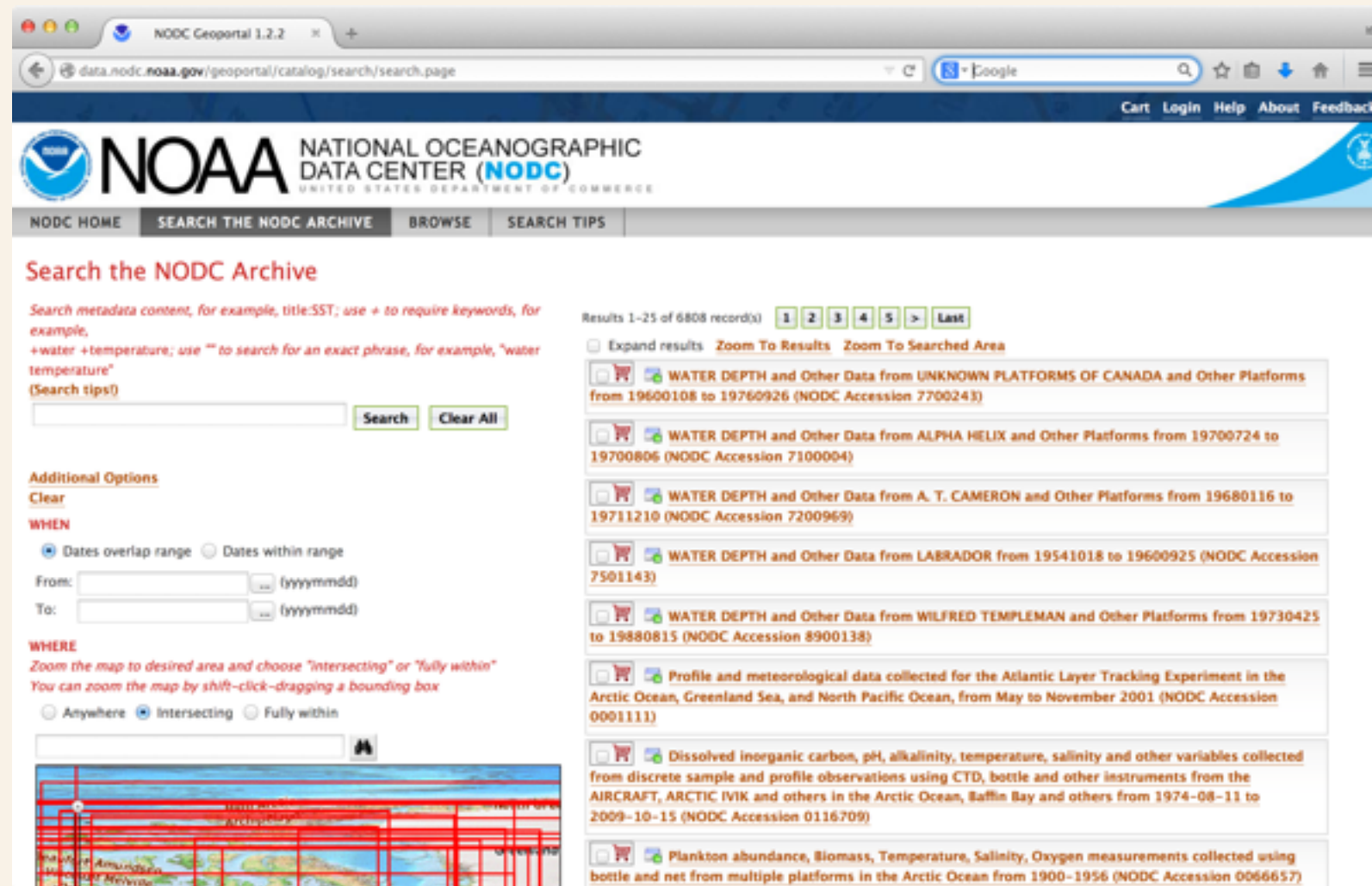
Université Laval

Open Data Portals



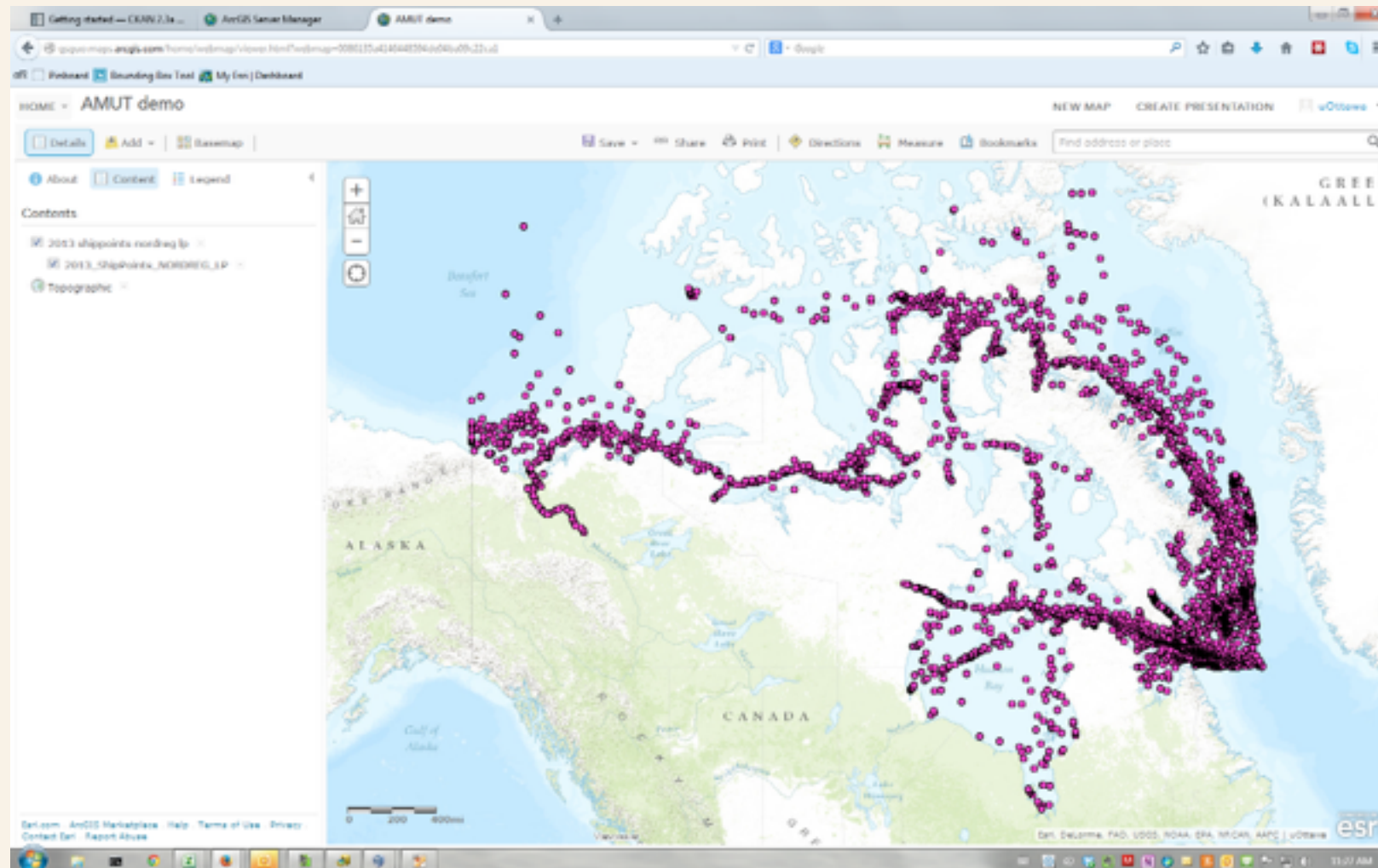
CKAN data portal software by the Open Knowledge Foundation

NODC Geoportal



National Oceanographic Data Center, NOAA

ArcGIS Online



Our sample data, for now

Symbolize?

View?

Upload?

What's our vision?

Download?

Data formats?

Export?

Access from ArcGIS?

Data storage considerations

Secure access

Replication, backups

Data storage location (Canada, US, etc.)

Long-term maintenance

Data preservation considerations

Data formats

Descriptive metadata (ISO 19115, others)

Potential data normalization

Potential format migration down the line

Ongoing support & hosting

Misc. considerations

Staffing/technical needs during set-up and maintenance

What's available in the box? What would we need to build on our own?

Existing software used by participants

Open source vs. open access

Symbolize?

View?

Upload?

What's our vision?

Download?

Data formats?

Export?

Access from ArcGIS?

Thanks | Merci



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