

http://opengeoportal.org

Patrick Florance

Manager Geospatial Technology Services Lecturer Fletcher School of Law & Diplomacy Tufts University

http://gis.tufts.edu

What is Open Geoportal?

A collaboratively developed, open source, federated web application to **rapidly discover**, preview, and retrieve, geospatial data from multiple repositories

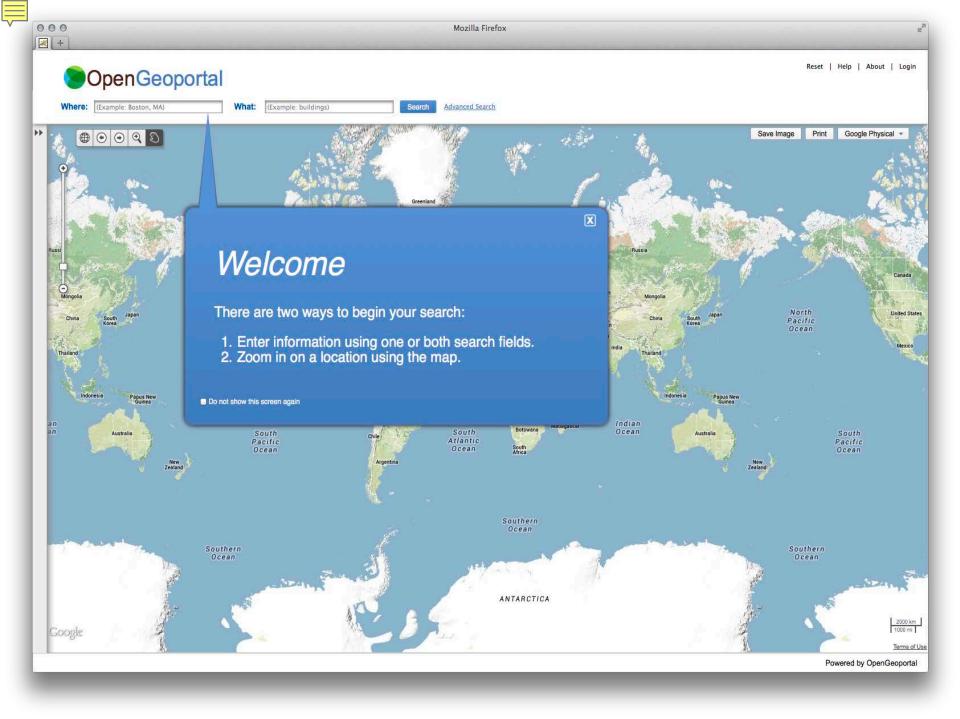
What is Open Geoportal?

A Collaborative Effort

- Community of best practice STANDARDS
- Application development
- Collection development
- Metadata authoring & sharing
- Data sharing
- Data licensing
- Data sources

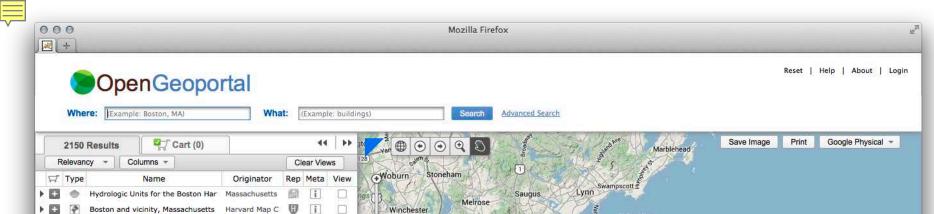


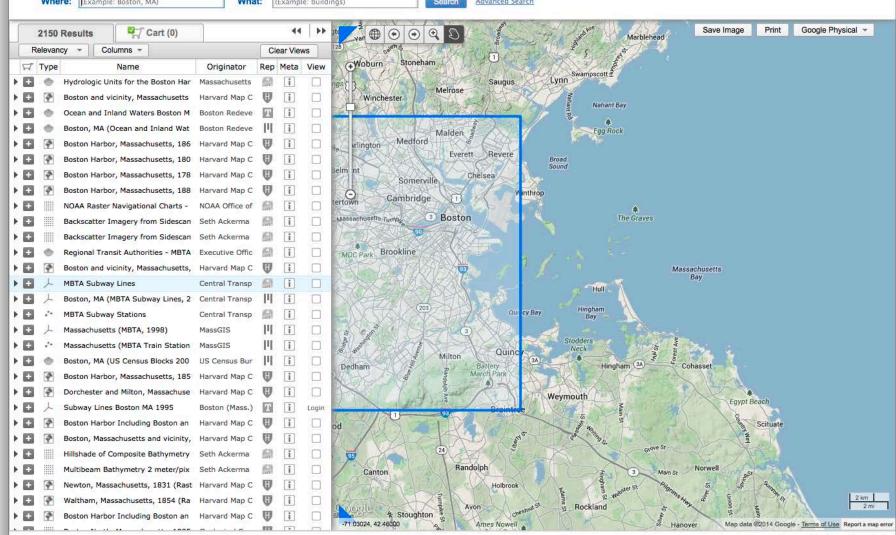
Open Geoportal 2.0



000 Mozilla Firefox + Reset | Help | About | Login **OpenGeoportal** Where: (Example: Boston, MA) (Example: buildings) Advanced Search Cart (0) Save Image Print Google Physical * 2150 Results Relevancy Clear Views (+Woburn Stoneham ☐ Type Originator Rep Meta View Hydrologic Units for the Boston Har Massachusetts Saugus Melrose Boston and vicinity, Massachusetts Winchester Ocean and Inland Waters Boston M Boston Redeve X Boston, MA (Ocean and Inland Wat Boston Redeve Boston Harbor, Massachusetts, 186 Harvard Map C You can preview layers by clicking on the 'View' Boston Harbor, Massachusetts, 180 Harvard Map C button. Boston Harbor, Massachusetts, 178 Harvard Map C Boston Harbor, Massachusetts, 188 Harvard Map C Layers can be added to the 'Cart' by clicking on the NOAA Raster Navigational Charts -+ button. Backscatter Imagery from Sidescan Seth Ackerma Backscatter Imagery from Sidescan Regional Transit Authorities - MBTA Executive Offic Do not show this screen again Boston and vicinity, Massachusetts, Harvard Map C MBTA Subway Lines Central Transp Boston, MA (MBTA Subway Lines, 2 Central Transp Quincy Bay MBTA Subway Stations Central Transp Massachusetts (MBTA, 1998) MassGIS Massachusetts (MBTA Train Station Neck Quincy Milton Boston, MA (US Census Blocks 200 US Census Bur Dedham Boston Harbor, Massachusetts, 185 Harvard Map C Dorchester and Milton, Massachuse Harvard Map C Weymouth Egypt Beach Subway Lines Boston MA 1995 Boston (Mass.) Braintree Boston Harbor Including Boston an Harvard Map C Boston, Massachusetts and vicinity, (24) Hillshade of Composite Bathymetry Seth Ackerma Randolph Norwell Multibeam Bathymetry 2 meter/pix Seth Ackerma Canton Newton, Massachusetts, 1831 (Rast Harvard Map C Holbrook 2 km Waltham, Massachusetts, 1854 (Ra Harvard Map C Rockland Boston Harbor Including Boston an Map data @2014 Google - Terms of Use Report a map error

Powered by OpenGeoportal





Powered by OpenGeoportal

Partners

Tufts University

Harvard University

Massachusetts Institute of Technology (MIT)

Massachusetts State GIS Office

Baruch College - CUNY

California State University – Fresno

CIESIN

Columbia University

Cornell University

Emory University

GeoCat, GeoNetwork

New York University (NYU)

Purdue University

Stanford University

State of Wisconsin

State of New Hampshire

United Nations

University of California Berkeley

University of California Los Angeles

University of California Santa Barbara

University of Connecticut

University of Iowa

University of Maryland

University of Minnesota

University of New Hampshire

University of Virginia

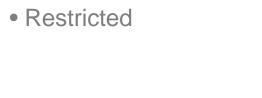
University of Washington

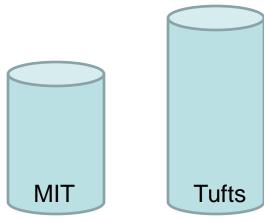
University of Wisconsin Madison

USAID - GIST

Data

- Global to local (1:1,000,000 to 1:480)
- Domestic and international
- All time periods
- Non-restricted







Highlights

- Open source
- Skinnable reusable
- Significant Cost Savings
 - Application Development
 - Data loading
 - DB management
 - Metadata sharing/authoring
 - Data sharing



Governance

Open Source Model

- OGP Steering Group
- OGP Developer Working Group
- OGP Metadata Working Group



New Developments

- Open Geoportal 2.0
- Open Geoportal Harvester
- Open Geoportal Metadata Toolkit
- Open Geoportal Hosted Services





Open Geoportal Harvester

What is it?

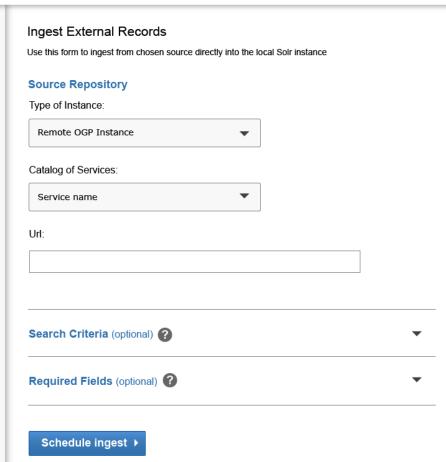
Open source web application that provides the automation of customized harvesting from partner metadata nodes as well as direct harvesting of XML metadata files within a web directory.

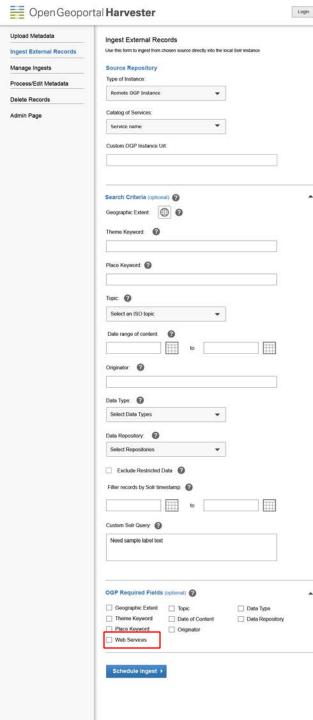
- Organization can create a custom OGP or Geonetwork instance that includes only selected records.
- Supports a variety of metadata formats
- Supports a variety of options to batch process and edit metadata
- Provides additional quality control options when uploading institutional metadata.



Login

Upload Metadata	
Ingest External Records	
Manage Ingests	
Process/Edit Metadata	
Delete Records	
Admin Page (admin only)	







Logged in as pflora01 ▼

Upload Metadata

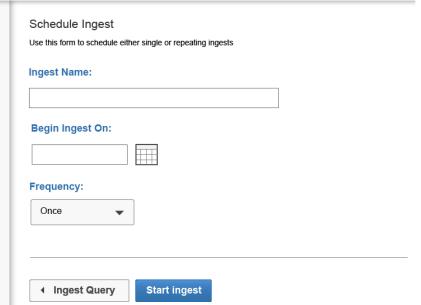
Ingest External Records

Manage Ingests

Process/Edit Metadata

Delete Records

Admin Page

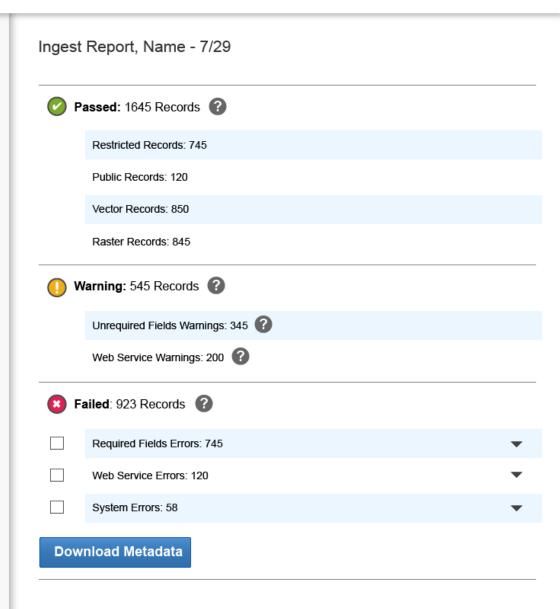




Process/Edit Metadata

Delete Records

Admin Page



Upload Metadata

Ingest External Records

Manage Ingests

Process/Edit Metadata

Delete Records

Admin Page

Manage Ingests

Name ▼	Last Ingest ▼	Next Ingest ▼	Repositories	
New York Subway	6/19/13	none	Tufts, Harvard, MIT, Berkley	View Report
Urban Development	6/21/13	8/21/13 <u>cancel</u>	Tufts, Harvard, MIT, Berkley	View Report
Road Systems	6/22/13	in progress <u>cancel</u>	Tufts, Harvard, MIT, Berkley	View Report
New York Subway	6/28/13	none	Yale, MIT, Berkley	View Report
Urban Development	7/9/13	none	Yale, MIT, Berkley	View Report
Road Systems	7/13/13	8/13/13 <u>cancel</u>	Tufts, Harvard, MIT, Berkley	View Report
New York Subway	7/19/13	8/19/13 <u>cancel</u>	Tufts, Harvard, MIT, Berkley	View Report
Urban Development	8/1/13	9/1/13 <u>cancel</u>	Yale, MIT, Berkley	View Report
Road Systems	8/2/13	none	Yale, MIT, Berkley	View Report

Harvester Schedule

- GeoCat application development
- January, 2014
 - Ingest External Records
 - Manage Ingests
 - Admin Page
- March 2014
 - Upload Metadata
 - Process/Edit Metadata
 - Delete Records

OGP Metadata Toolkit

A cloud-based geospatial metadata toolkit. We need to provide tools for staff, students, and faculty to easily create metadata for their data. The goal is to provide a **rapid**, **guided metadata** authoring environment.

OGP Metadata Toolkit

- Auto-populate from File Read
- Support Multiple Metadata Formats
- Import Metadata
- Guided Metadata
- Current Metadata Authoring Environments
- Partnerships
- Data Publisher

Guided Metadata

- Provide quick 'Help' for each element
- Help section with examples
- Incorporate auto-text complete
- Utilize controlled vocabularies APIs, thesaurus
- Create Originator thesaurus
- Error checking
- Forum and elist OGP MWG
- Admin functionality
 - Advanced metadata authoring
 - Ingest to our portal
- Ability to define projections
- Visualize bounding coordinates and define bounding coordinates
- APIs?
- GeoSetter? Reads bounding coordinates and recommends place keywords

Partnerships

- GeoCat (founder of GeoNetwork)working with Tufts
- Harvard, MIT, UC Berkeley, Stanford

OGP Metadata Toolkit Schedule

- GeoCat application development
- January 2013: begin application development
- September 2014: completed

Open Geoportal Hosted Services

- Begin cost models January 2013
- Subscription service: hosting and consultation
- Entire architecture hosted in cloud
 - Interface
 - Data and metadata ingest
 - DBMS, Geoserver, etc.
- Subscriber creates metadata and loads data into OGP hosted service

Open Geoportal Hosted Services

- Begin cost models January 2013
- Subscription service: hosting and consultation
- Entire architecture hosted in cloud
 - Interface
 - Data and metadata ingest
 - DBMS, Geoserver, etc.
- Subscriber creates metadata and loads data into OGP hosted service



OpenGeoportal



New Developments

- Open Geoportal 2.0
- Open Geoportal Harvester
- Open Geoportal Metadata Toolkit
- Open Geoportal Hosted Services



http://geodata.tufts.edu

http://opengeoportal.org

Patrick Florance

Manager Geospatial Technology Services Lecturer Fletcher School of Law & Diplomacy Tufts University

http://gis.tufts.edu