

Open Data: The Why and How of Contributing to and Benefitting from the Open Data Ecosystem

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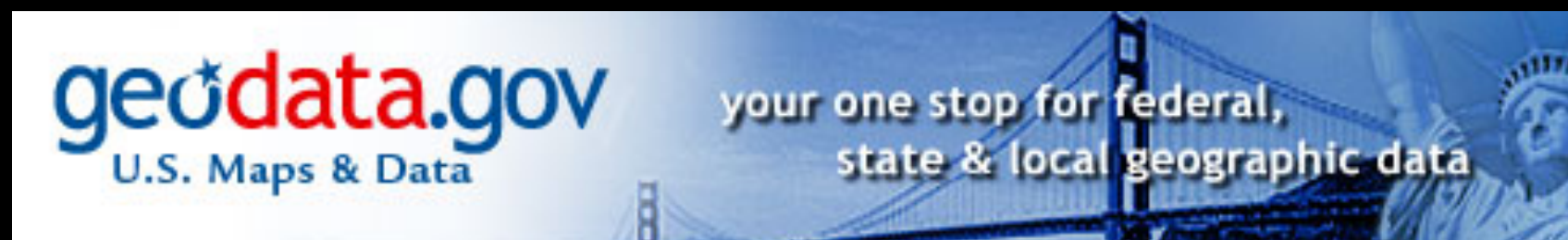
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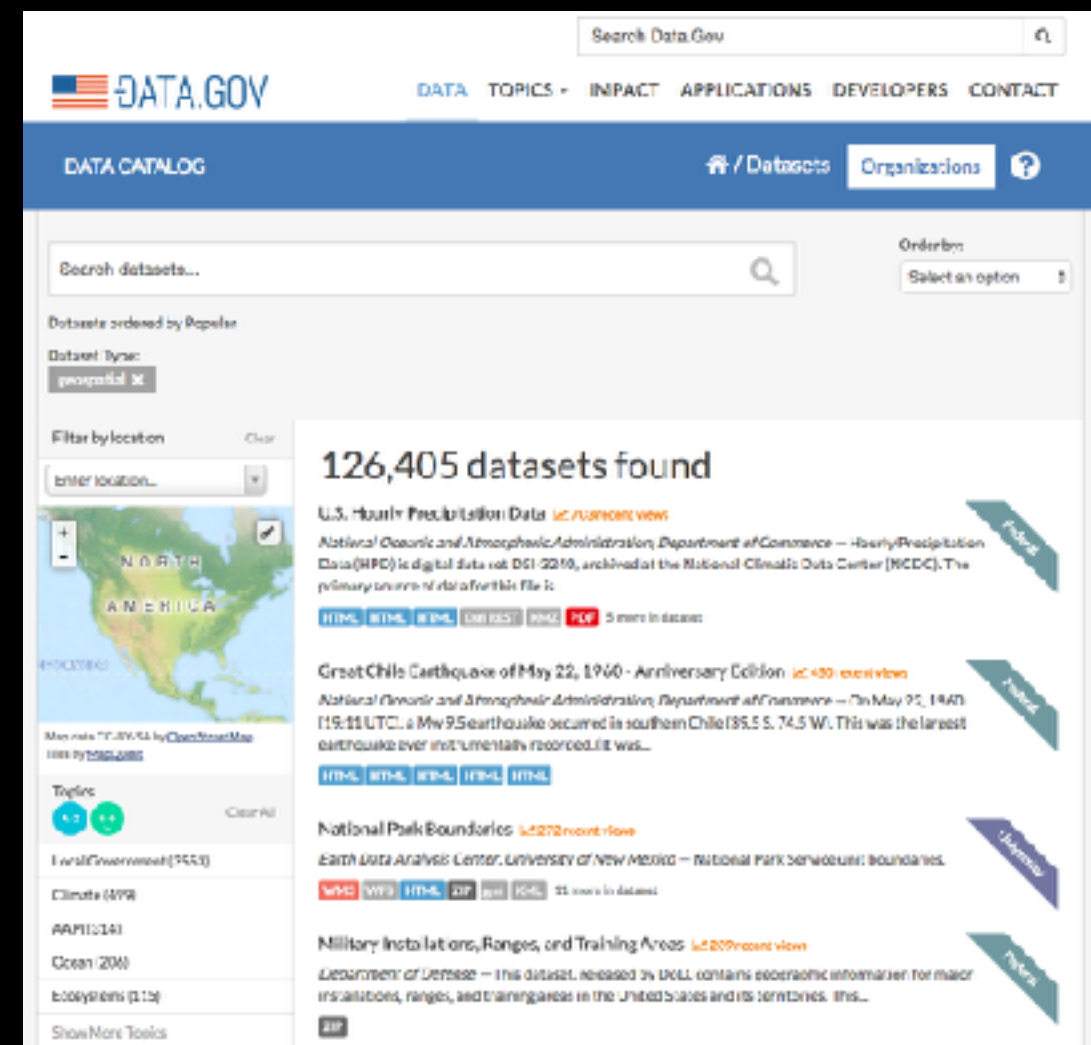
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Presentation Outline

- Introduction
- Current Context
- Where & How You Can Get Stuff
- Where Your Stuff Can Go



The geospatial data community has a long tradition of Open Data and Data Sharing



... and Open
Standards to support
data discovery,
visualization and
access



FGDC - *Content
Standard for Digital
Geospatial Metadata*

ISO - 19115,
19115-2, 19115-1
and related standards



- Open Geospatial Consortium
- Web Map Services (visualization)
 - Web Feature Services (WFS - data access, vector)
 - Web Coverage Services (WCS - data access, raster)
- ... and many others



The rest of the Open Data community is playing catch up - quickly

- President Barack Obama - *Memorandum on Transparency and Open Government* (Jan 21, 2009) ⇨
 - OMB Memorandum M-10-06, *Open Government Directive* (Dec 8, 2009) ⇨
 - data.gov - Announced in Mar 2009, went live in May 2009
 - President Barack Obama - *Memorandum on Building a 21st Century Digital Government* (May 21, 2012) ⇨
 - OMB - *Digital Government: Building a 21st Century Platform to Better Serve the American People* (May 23, 2012) ⇨
 - Executive Order 13642 - *Making Open and Machine Readable the New Default for Government Information* (May 9, 2013) ⇨
 - OMB Memorandum M-13-13 - *Open Data Policy - Managing Information as an Asset* (May 9, 2015) ⇨
- Specific Outcomes
- Data Management Planning/Plan requirements
 - Proliferation of general and domain specific data repositories
 - Increased focus on *basic* documentation
 - Increased focus on machine access to data and metadata
- Additional Drivers
- Publisher requirements for verifiable data access statements - examples
 - Nature ⇨
 - PLOS | ONE ⇨
 - General increased recognition of value and benefits of adopting Open Data Principles

Where and How You
Can Get Stuff

Full-service Geospatial Data Repositories (examples)

- New Mexico Resource Geographic Information System ⇨
- Texas Natural Resources Information System ⇨
- The National Map Small Scale Data Collection ⇨ (web services ⇨)
- Global Land Cover Facility ⇨



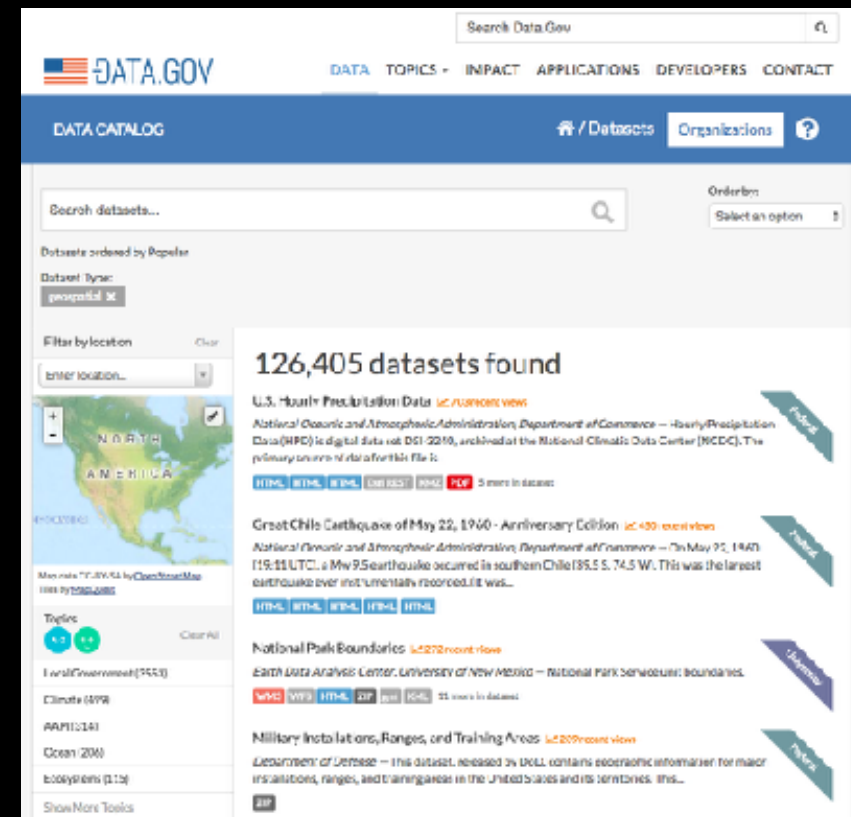
General and Domain-Specific Data Repositories (examples)



- Find one for yourself:
re3data.org ⇌
- Figshare ⇌
- Dryad ⇌
- Zenodo ⇌
- Long Term Ecological Research (LTER) Data Portal
⇌
- DataZoa (commercial) ⇌

Metadata Focused Data Discovery/Access

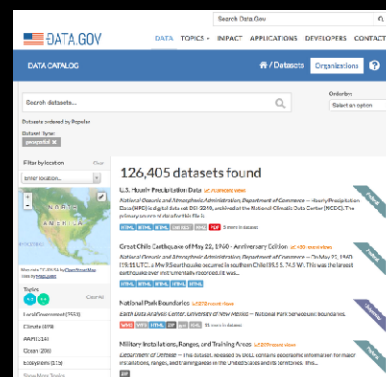
- data.gov ⇔ (data catalog ⇔)
- [GEOPLATFORM.gov](https://geoplatform.gov) ⇔
- DataONE ⇔
- Global Earth Observation
System of Systems (GEOSS)
⇔



Where Your Stuff
Can Go

Many of the Same Players

- NM RGIS
- A wide variety of the increasingly popular data sharing platforms
- Metadata publication/registration through data.gov or GEOSS



Questions?

