



The US Geospatial Platform and the Global Earth Observations System of Systems (GEOSS)

Geospatial World Forum May 5, 2014

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Presentation Structure

- Current Policies
- Brief History of the Federal Geographic Data Committee (FGDC)
- GeoPlatform Planning
- GeoPlatform goals
- GeoPlatform components
- **♦** GEOSS



Open Government





"Information maintained by the Federal Government is a national asset."

available to the public. Executive departments and agencies should also solicit public feedback to identify information of greatest use to the public.

President Obama January 21, 2009





Open Data

- President Obama released Executive Order May 9, 2013
 - "Making Open and Machine Readable the New Default for Government Information"
- **◆OMB Memorandum M-13-13**
 - "Open Data Policy Managing Information as an Asset"
 - Project Open Data

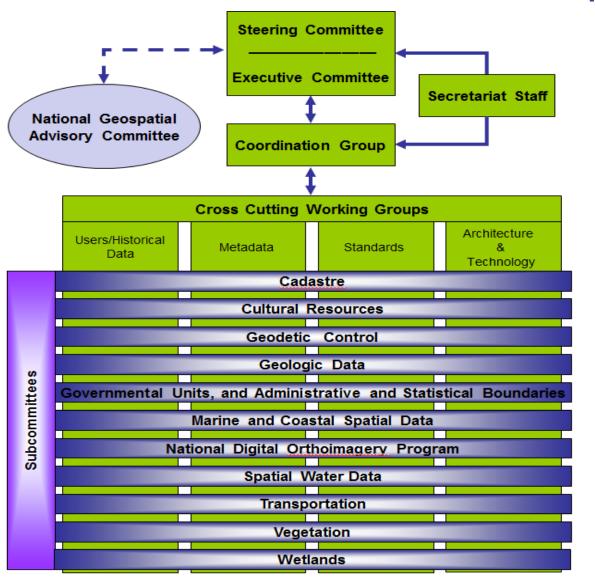


Brief History of FGDC

- OMB Circular A-16 (rev. 2002, Supplemental Guidance 2010)
 - Provides for improvements in the coordination and use of spatial data
 - Establishes vision for the National Spatial Data Infrastructure (NSDI)
 - Establishes FGDC as coordinating body for NSDI activities within federal government



FGDC Structure and Participants



Steering Committee	
Chair – Interior Vice Chair - OMB	
USDA	USAID
DOC	Education
DoD (NGA)	Energy
DHS	HHS
EPA	HUD
NASA	DOJ
GSA	DOL
LOC	DOS
NARA	DOT
NSF	Treasury
ОРМ	VA
SBA	NRC
Smithsonian	USACE
SSA	FCC
TVA	NCPC

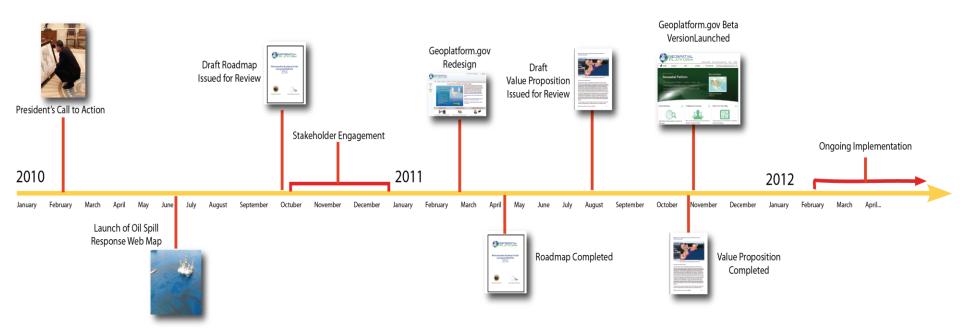
Pending: HIFLD SubComm. and National Boundaries WG

A Call to Action

- Budget Language for FY 2011, Direction to create the "Geospatial Platform"
 - Portfolio Management, prioritize investments based on business need
 - Leverage existing initiatives
 - Improve the governance framework
 - Address the requirements of State, local and tribal agencies
 - Reuse data, tools and architecture
 - Increase access to geospatial data



Planning to achieve the vision...



Most Recent Products of Note (see: http://www.fgdc.gov)

National Spatial Data Infrastructure (NSDI) Strategic Plan (2014-2016)

National Geospatial Data Asset (NGDA) Management Plan

Geospatial Platform is an OMB Shared Service and Line of Business





Geoplatform.gov

Goals:

- Facilitate understanding via expanded use of geospatial data and tools
- Search/Catalog shared with data.gov
- Focus on National Geospatial Data Assets / A-16 data
- Focus on non-experts / decision makers
 - Make maps and spatial apps more discoverable and more accessible
- Content organized by Communities
 - A-16 Theme Communities
 - Cross-Agency Collaboration Communities
 - Agency "storefront" Communities
- Provide shared cloud infrastructure







fadc Federal Geographic Data Co.

Q Search

Overview

Data

Maps

Communities/Agencies

Resources

Marketplace

Dashboards

Sign In | Help

Explore

Develop

Publish



Search Data Catalog

80,604 Datasets Search geospatial datasets

by terms above... Learn More

News & Blogs - What's in the news and the latest information about Geoplatform

Site Statistics & Data Metrics - site usage, popular pages, organizational dataset counts and updates.

Featured Applications GEOPLATFORM.gov Stone | Dr. | No. | Constitutions | Person | Material | Indicate a Search Climate Data

GeoPlatform - Climate Resources

Find data and tools related to climate change and its impacts that can help inform, prepare, and strengthen America's communities. This resource area is focused on providing easy access to data and resources related to coastal flooding, sea level rise, and their impacts. Over time, this area will expand to include additional data and tools relevant to other important climate-related impacts, including risks to human health, the food supply, and energy infrastructure.

Trending Data

USGS US Topo Map Collection

U.S. Geological Survey, Department of the Interior -Layered GeoPDF 7.5 Minute Quadrangle Map. Layers of geospatial data include orthoimagery, roads, grids, geographic names, elevation contours, hydrography, and...

US Median Household Income

Federal Geographic Data Committee - This thematic map presents the median household income in the United States in 2010. The 2010 Median Household Income is an estimate of income for the calendar ...

TIGER/Line Shapefile, 2013, Series Information File for the Current Address Range-Feature Name Relationship Files

US Census Bureau, Department of Commerce - The TIGER/Line shapefiles and related database files (.dbf) are an extract of selected geographic and cartographic information from the U.S. Census Bureau's...

View more data

Featured Maps

Sea Level Rise Planning Tool - New Jersey and New York State



NOAA, in partnership with FEMA, USACE, USGCRP, and CEQ has created a set of map services and related tools to help communities, residents, and other stakeholders consider risks...

View Details

Exploring Ocean Wind Energy



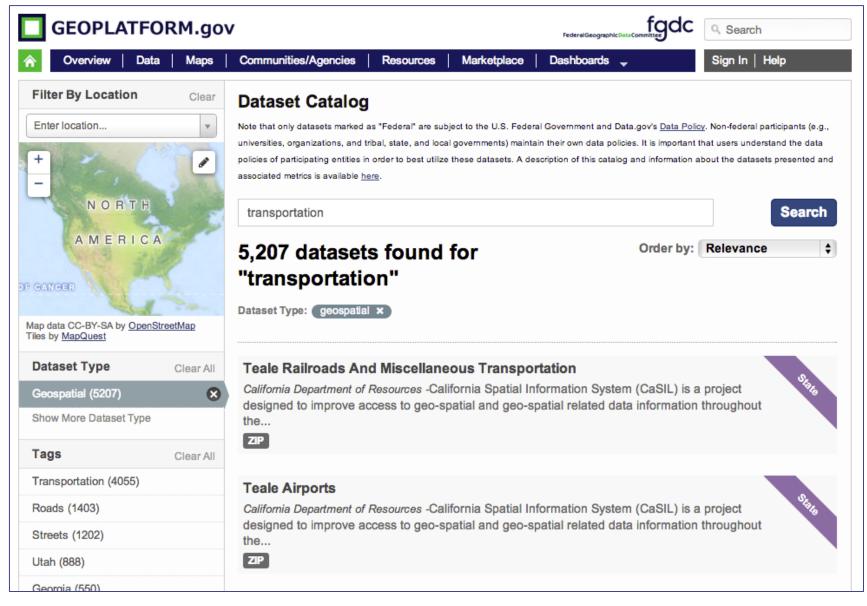
Offshore Wind is a viable source of energy capable of providing 900,000 megawatts (MW) of electricity-almost enough energy to power the entire country.

View Details

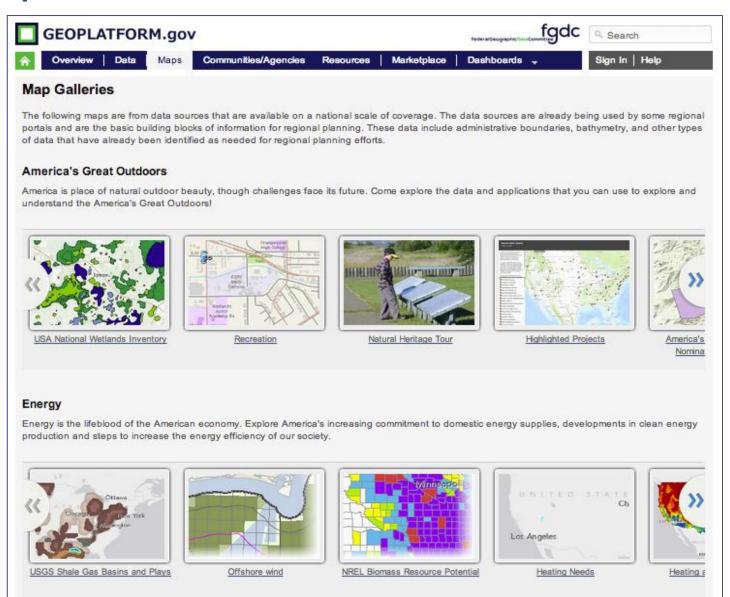
View more maps



Catalog



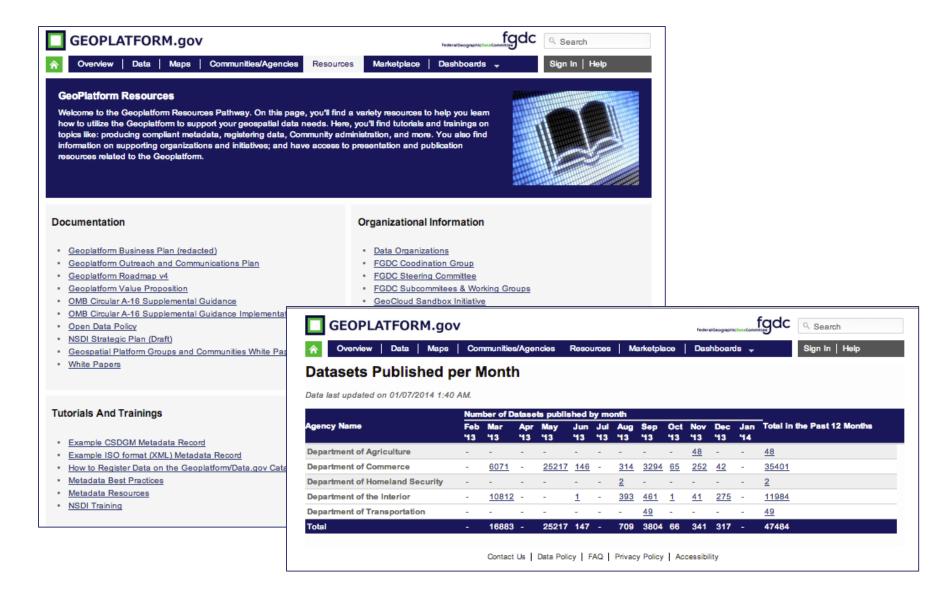
Map Galleries



Marketplace



Resources and Dashboards



Featured Maps and Apps



Featured Maps

20 Must-see Pennsylvania State Parks



Pennsylvania actually has 120 must-see state parks, but the Commonwealth's significant natural and historic resources.

Man IIRI -

http://maps.dcnr.pa.gov/storymaps/mustseeparks.html

Exploring Ocean Wind Energy



NOAA and BOEM - Offshore Wind is a viable source of energy electricity-almost enough energy to power the entire country assessing offshore wind speed can help identify potential con there are no current offshore wind farms in development, prog show how MarineCadastre.gov data can help with offshore win

Map URL:

http://www.arcgis.com/apps/StorytellingTextLegend/index.html?appid=46b2bf2c83bc4...

FEMA 100 Year Floodzones



Federal Emergency Management Agency - This map service re important for floodplain management, mitigation, and insurance (NFIP). The National Flood Hazard Layer (NFHL) data present digital format suitable for use in electronic mapping application

Map URL:

http://geoplatform.maps.arcgis.com/home/webmap/viewer.html?services=d6a5bc3e7d9c...

National Atlas Locator Map



United States Geological Survey - States, Counties, urban are federal sources over NASA Blue Marble.

GEOPLATFORM.gov

Overview | Data | Maps | Communities/Agencies

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Featured Date: December 18, 2013

Featured Applications

WGA Crucial Habitat Assessment Tool



With the launch of this Western Governors' Crucial Habitat Assessment Tool (CHAT), the Western Governors' Association and its Wildlife Council aim to bring greater certainty and predictability to planning efforts by establishing a common starting point for discussing the intersection of development and wildlife. While not intended for project-level approval, CHAT is designed to reduce conflicts and surprises while ensuring wildlife values are better incorporated into land use decision-making, as well as large-scale conservation projects.

The History of CHAT

With the adoption of its Wildlife Corridors Initiative Report in 2008, the Western Governors created the Western Governors' Wildlife Council and tasked its members with developing policies and tools to identify

and conserve crucial wildlife habitat and corridors across the region.

The Wildlife Council first approached the Governors' directive by launching regional pilot projects in 2010 with support from a grant from the Department of Energy. The year-long pilot projects allowed the Wildlife Council to test the framework outlined in their White Paper, helping to refine their vision.

In August 2011, the Wildlife Council established a plan to develop a West-wide tool with the goal of launching a public and regionally compatible crucial habitat GIS tool by 2013. All the while, the Wildlife Council has continued to support the development of state-specific CHATs in individual states.

Now guided by WGA policy resolution 13-04 and focused on implementing the CHAT model, the Wildlife Council is working to make information on important fish and wildlife habitat compatible across the West and available to the public for use in informing land use decisions.

CHATs in Individual States

Arizona, California, Kansas, Montana, Washington and Wyoming have already developed state-specific information on priority species and habitat. In addition, the Southern Great Plains CHAT provides information specific to the lesser-prairie chicken, a species with habitat ranging across five states. Other states are continuing to develop individual systems to provide additional state-specific information.

Application URL:

http://westgovchat.org/map

National Wetlands Inventory



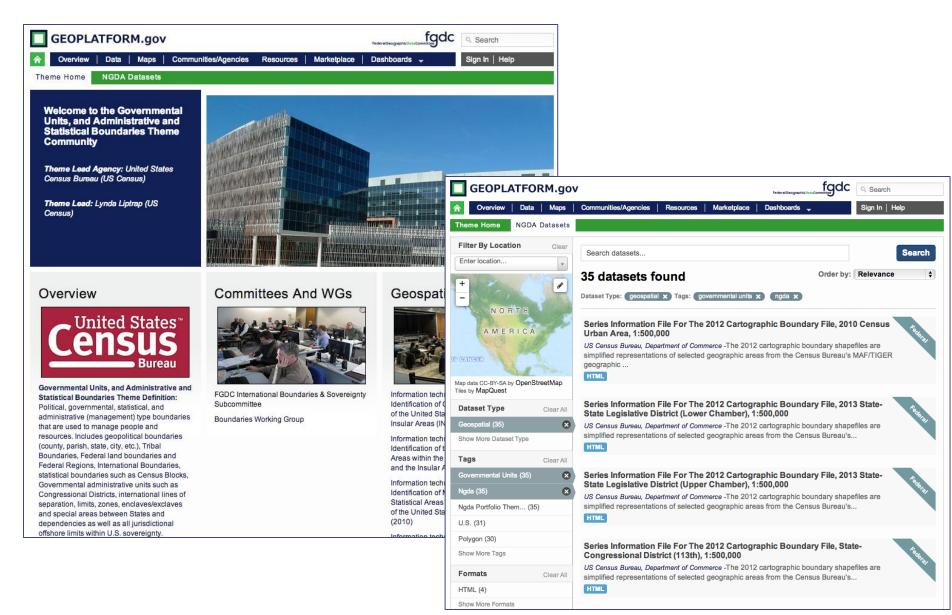
Featured Date: November 12, 2013

U.S. Fish and Wildlife Service - The development of the new Wetlands Mapper stems from the U.S. Fish and Wildlife Service's (Service) need to expand and improve the availability of digital wetlands data. The Service's strategic plan for digital wetland data is focused on the development, revision, and dissemination of wetlands data and information to Service resource managers and the public. The present goal of the Service is to provide the citizens of the United States and its Trust Territories with current geospatially referenced information on the status, extent, characteristics and functions of wetlands, riparian, deepwater and related aquatic habitats in priority areas to promote the understanding and conservation of these resources.

The revision of Wetlands Mapper is in direct response to the need to integrate digital map data with other resource information to produce timely and relevant management and decision support tools.

This new version of the Wetlands Mapper is designed to promote greater awareness of wetlands map data applications and to deliver easy-to-use, maplike views of America's wetland resources in a digital format. It has been developed in collaboration with the U.S. Geological Survey (USGS), Water Resource

Communities – A-16 Themes





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Climate Resources

Find data and tools related to climate change and its impacts that can help inform, prepare, and strengthen America's communities. This resource area is focused on providing easy access to data and resources related to coastal flooding, sea level rise, and their impacts. Over time, this area will expand to include additional data and tools relevant to other important climate-related impacts, including risks to human health, the food supply, and energy infrastructure.

For more information and data visit our partners at climate.data.gov





Search Climate Data

Search the geospatial catalog for data relevant to important climate-related impacts, including risks to human health, the food supply, and energy infrastructure. Start Your Search



Climate Maps

Explore map resources related to climate change and its impacts that can help inform, prepare, and strengthen America's communities, businesses, and citizens. Climate Map Group



Climate Tools

The tools below may be helpful in analyzing and assessing the impact of climate in your community.

<u>Coastal Change Analysis Program (C-CAP) Land Cover Atlas</u>: Provides access to regional land cover and land cover change information.

<u>CanVis</u>: A visualization program used to "see" potential impacts from coastal development or sea level rise.

<u>Climate Resilience Evaluation and Awareness Tool (CREAT)</u>: Provides information on climate impacts to assist water utilities to assess future risks and vulnerabilities.

<u>Coastal Change Hazards Portal</u>: The U.S. Geological Survey is uncovering the science behind coastal change hazards and providing data, tools, and scientific knowledge to help coastal planners as they work to reduce risk along our coastlines.

Resources

The resources below will allow you to build innovative tools and solutions to help communities plan and prepare for the potential effects of coastal inundation. Through creating new data, visualizations, and simulations, you can help people understand their exposure to coastal inundation hazards and their increased vulnerability due to population increase and sea level rise.

Homeland Security Infrastructure Program (HSIP) Public Domain Services

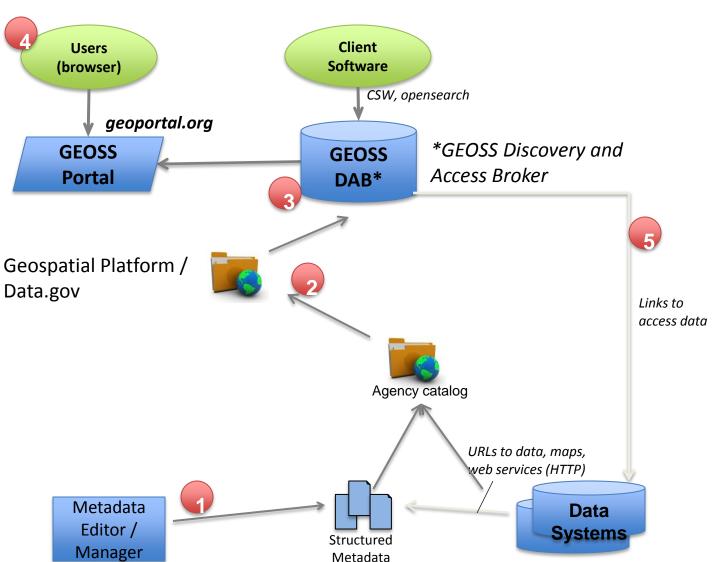
- · All REST Services (directory only)
- Natural Hazards REST Service | WMS Service
- Public Health REST Service | WMS Service
- · Transportation Air REST Service | WMS Service
- Transportation Ground <u>REST Services</u> | <u>WMS Service</u>
- · Transportation Water REST Services | WMS Service

Platform to GEOSS

- Geospatial Platform users register their data in a catalog shared with data.gov as part of our Open Data Policy
- The common catalog (catalog.data.gov) is registered with GEOSS
- Metadata are accessed with links to the data, services, or applications being described
- Result is that US national assets are visible to the Global EO community



Data Publishing to GEOSS



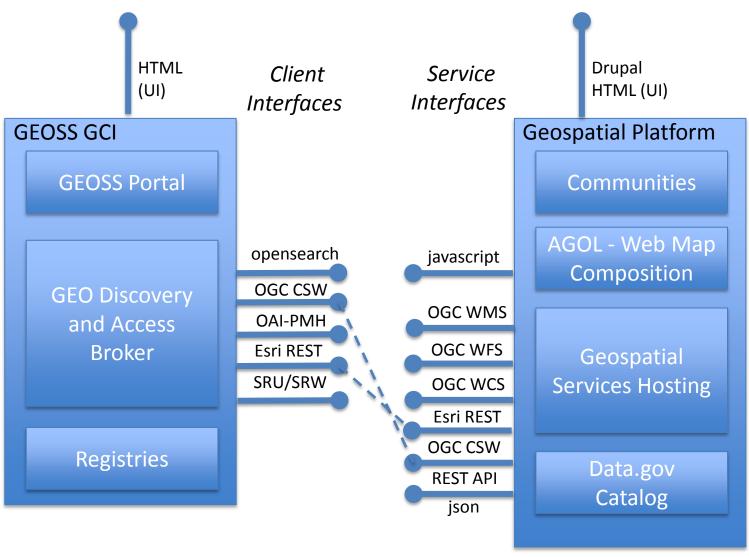
Save in catalog Indexed by DAB

Create metadata

- Search via Portal
- Link via metadata

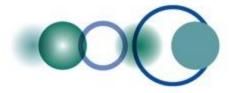
Agency Metadata and Data Services

GEOSS and GeoPlatform Interfaces

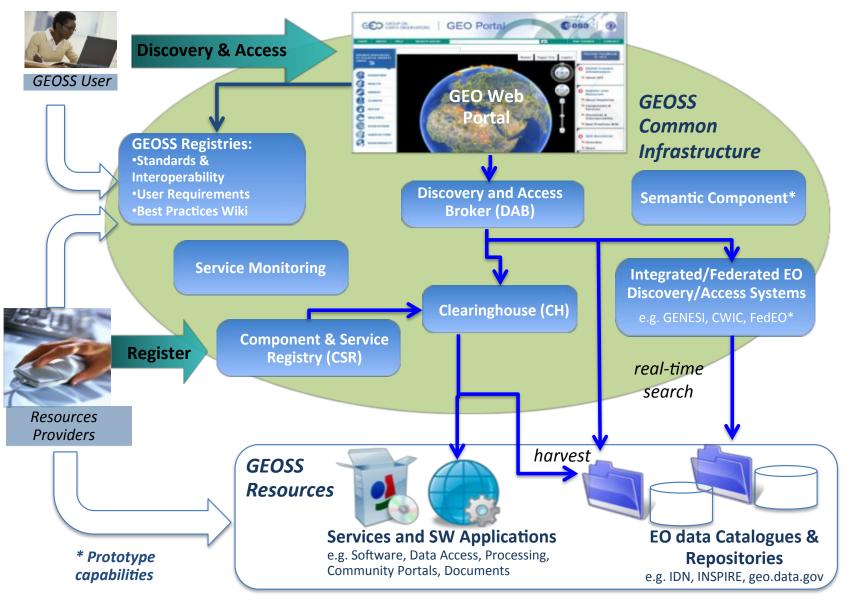


Focus of interaction is to support catalog access and reference to data and services described in metadata





GCI Architecture



Conclusion – Value Proposition

- Supports open data and the GEOSS Data Sharing Principles as part of our Open Data Policy
- The common catalog (catalog.data.gov) is registered with GEOSS
- Demonstrates interoperability using internationally recognized standards
- Result is that US national assets are visible to the Global EO community



Thank You!

