



# September 22, 2015

## Coordination Group Meeting

# Metadata Working Group Update to Coordination Group

Jennifer Carlino, Chair  
FGDC OS  
303-202-4260  
[jcarlino@usgs.gov](mailto:jcarlino@usgs.gov)

# Introduction

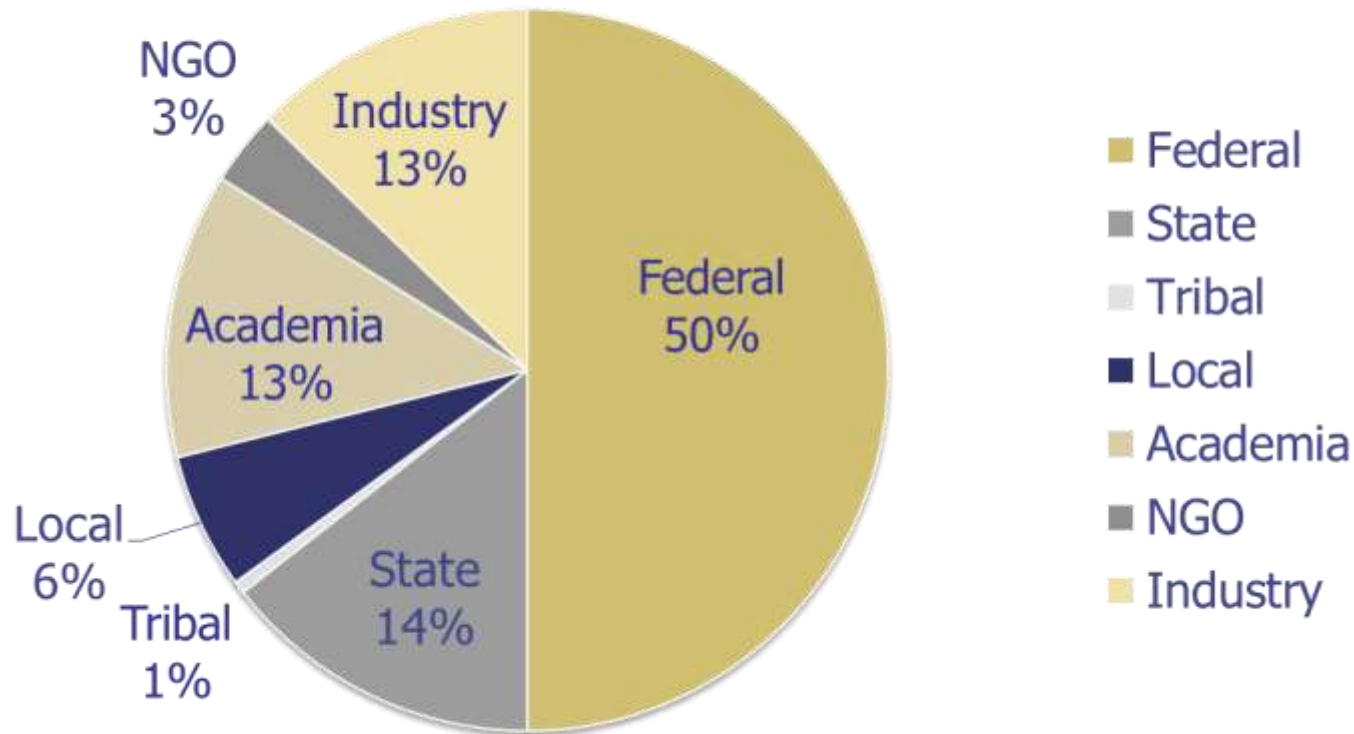
The purpose of the Metadata Working Group is to:

- ◆ Promote awareness of and best practices for the metadata component of geospatial data
- ◆ Facilitate the coordination, development, use, sharing, and dissemination of geospatial metadata
- ◆ Supports the implementation of geospatial metadata and other related Federal, National, and International standards established organizations including
  - FGDC
  - Open Geospatial Consortium (OGC)
  - American National Standards Institute (ANSI)
  - International Organization for Standardization (ISO)



# Metadata Working Group Members

**Total = 180 participants**



<http://www.fgdc.gov/participation/working-groups-subcommittees/mwg/membership>

# Members

## Federal

Centers for Disease Control (1)  
Department of Agriculture (12)\*  
Department of Commerce (18)  
Department of Defense (8)  
Department of Energy (1)  
Department Homeland Security (4)  
Department of Housing and Urban  
Development (2)  
Department of the Interior (32)\*  
Environmental Protection Agency (5)\*  
Federal Aviation Administration (1)  
General Services Administration (1)  
Library of Congress (2)  
NASA (3)

## State

Florida Fish and Wildlife Commission (1)  
Illinois Geological Survey (1)  
Indiana Geological Survey (1)  
Alaska (1)  
Arizona (1)  
Colorado (1)  
Iowa (1)  
Minnesota (3)  
Mississippi (1)  
Missouri (2)  
New Jersey (4)  
North Carolina (2)\*  
North Dakota (1)  
Oregon (2)  
*Virginia (1)*  
Washington (2)\*  
Wyoming (1)

# Members Cont'd

## Tribal

Penobscot Indian National Tribal  
Administration (1)

## Local

Champaign County Regional Planning  
Commission (2)

City of Tampa (1)

Miami-Dade County (5)

Westchester County, New York (2)

*Los Angeles County (1)*

## Academia

Columbia University (1)

George Mason University (1)

Indiana University Northwest (1)

## Academia cont'd

Iowa State University (1)

James Madison University (1)

Louisiana State University (1)

Michigan State University (2)

Northern Arizona University (2)

Stanford University (1)

University of Idaho (1)

*University of New Mexico (1)*

University of Nevada, Las Vegas (1)

University of North Carolina (1)

University of Rhode Island (1)

University of Wisconsin (2)

Virginia Tech (2)

West Virginia University (1)

Western Illinois University (1)

Winston-Salem State University (1)

# Members Cont'd

## NGO

National Association of Regional  
Councils (1)  
NatureServe (1)  
Northwest Straits (2)  
Point Blue Conservation Science(1)  
Sonoma Ecology Center (1)

## Industry

Booz Allen Hamilton, Inc. (1)  
CDM Smith, Inc. (1)  
Chevron Corporation (1)  
DigitalGlobe, Inc. (1)  
ESRI (3)  
Fugro EarthData, Inc. (1)

## Industry Cont'd

GeoMaxim (1)  
Grafton Technologies, Inc. (1)  
Harris Corporation (1)  
Innovate! Inc. (4)  
Intergraph Corporation (1)  
Kucera International Inc. (1)  
Sanborn, Inc. (1)  
Southeastern Surveying and Mapping  
Corp (1)  
The HDF Group (1)  
Westat, Inc. (1)  
WiSC Enterprises (1)  
WMATA (1)

# NGDA Themes and Data Sets

*The Metadata Working Group is a cross cutting team - all of the NGDA Themes and Data Sets are represented*



# Recent Meetings

- ◆ The Metadata Working Group met September 9, 2015
- ◆ The topics discussed at this meeting include:
  - Status of ISO 191\*\* Suite of Metadata Standards
  - National Geospatial Data Asset Management Plan (A-16 Implementation)
  - Sharing applicable information from Standards Working Group
- ◆ Meeting outcomes include:
  - Increase understanding of status and relationships among ISO metadata standards
  - Increase metadata connection with NGDA management plan and NSDI Strategic Plan implementation
  - Discussing potential for a Metadata Workshop in 2016

*Meeting summaries and presentations available at:*

*[http://www.fgdc.gov/participation/working-groups-subcommittees/mwg/index\\_html](http://www.fgdc.gov/participation/working-groups-subcommittees/mwg/index_html)*





# Recent Developments/Projects

- ◆ National Geospatial Data Asset Metadata Focus Group (complete)
  - Updated NGDA Dataset metadata guidelines
  - NGDA Metadata Registration complete for 173 datasets (4 Pending)
- ◆ Working through INCITS-L1/ANSI groups to get ISO metadata standards available through the ANSI store
  - 2014 ISO 19115-1 Geospatial metadata fundamentals standard available via ANSI/INCITS (Cost \$133)
    - ◆ <http://webstore.ansi.org/RecordDetail.aspx?sku=INCITS%2fISO+19115-1%3a2014%5b2014%5d>
  - INCITS/ISO 19157:2013 Geographic information - Data quality (Cost \$133)
    - ◆ <http://webstore.ansi.org/RecordDetail.aspx?sku=INCITS%2fISO+19157%3a2013%5b2014%5d>
  - 2015 ISO 19115-3 XML schema implementation metadata fundamentals soon to be published at ISO, available on Github <https://github.com/ISO-TC211/XML>



# Recent Developments/Projects

- ◆ November 2014 Geospatial Community and Data.gov Workshop
  - Interagency team developed crosswalks from FGDC-CSDGM & ISO to Project Open Data/JSON v1.1 (complete)
    - ◆ <https://project-open-data.cio.gov/v1.1/metadata-resources/#crosswalks-for-geospatial-metadata>
  - Validation and Harvesting Group (in progress)
    - ◆ Working to simplify process, especially for CSDGM records and sample records being tested
- ◆ Fundamental conduit for ISO updates (ongoing)
  - regularly discusses ISO activities, issues, and strategies
  - ISO component of FGDC website provides educational resources
- ◆ Member participation in ISO standards including 19115-2 revision



# Recent Developments/Projects

- ◆ Presentations on metadata activities
  - Coastal GeoTools (March 2015)
    - ◆ Geospatial data management lessons learned
  - OGC North American Forum (June 2015)
    - ◆ Exploring potential discussion on North American Profile
  - ISO/TC211 Meeting (June 2015)
    - ◆ Alaska Metadata Tool at Standards in Action Workshop
  - Esri User Conference (July 2015)
    - ◆ ISO Geospatial Metadata Editors Registry
    - ◆ Metadata Special Interest Group
  - NC Federal Interagency Committee (Feb & August 2015)
    - ◆ FGDC program update and collaboration opportunities



# Recent Developments/Projects

- ◆ ISO Geospatial Metadata Editors Registry (ongoing)
  - Share information about ISO creation tools
  - Engaging software developers for testing
    - ◆ GeoNetwork, CatMDEdit, ESRI to date
  - Supporting User Reviews
    - ◆ MWG members only, constructive comments
  - Thanks to Jennifer Walter (USGS), Doug Newcomb (USFWS), and Kathy Martinolich (NOAA/RTI) for application testing/feedback



# Recent Developments/Projects

## ISO Geospatial Metadata Editors

Feature	GeoNetwork Opensource	GeoNetwork Opensource	GeoNetwork Opensource	GeoNetwork Opensource
	View Full Record	View Full Record	View Full Record	View Full Record
<b>Geospatial Metadata Content Standards Supported</b>				
ISO 19115:2003 - Metadata	full	full	full	full
ISO 19115-2 - Gridded Imagery Extension	full	none	none	full
ISO 19110 - Feature Catalog	full	full	full	full
ISO 19119 - Services	full	full	full	full
ISO 19115-3 - Metadata Fundamentals	full	none	none	full
Other Related Metadata Standards	View	View	View	View
<b>User Interface</b>				
GUI	✓	✓	✓	✓
Edit XML Directly	✓	✓	✓	✓
Other / Comments	View	View	View	View
<b>Operating Platform</b>				
Desktop	✓	✓	✓	✓
Distributed/Enterprise	✓	✓	✓	✓
Online Application	✓	✓	✓	✓
Other / Comments	View	View	View	View
<b>Proprietary Nature</b>				
Open Source (publicly available)	✓	✓	✓	✓
Source Code Available (customers only)	✓	✓	✓	✓
Free or Shareware	✓	✓	✓	✓
Other / Comments	View	View	View	View



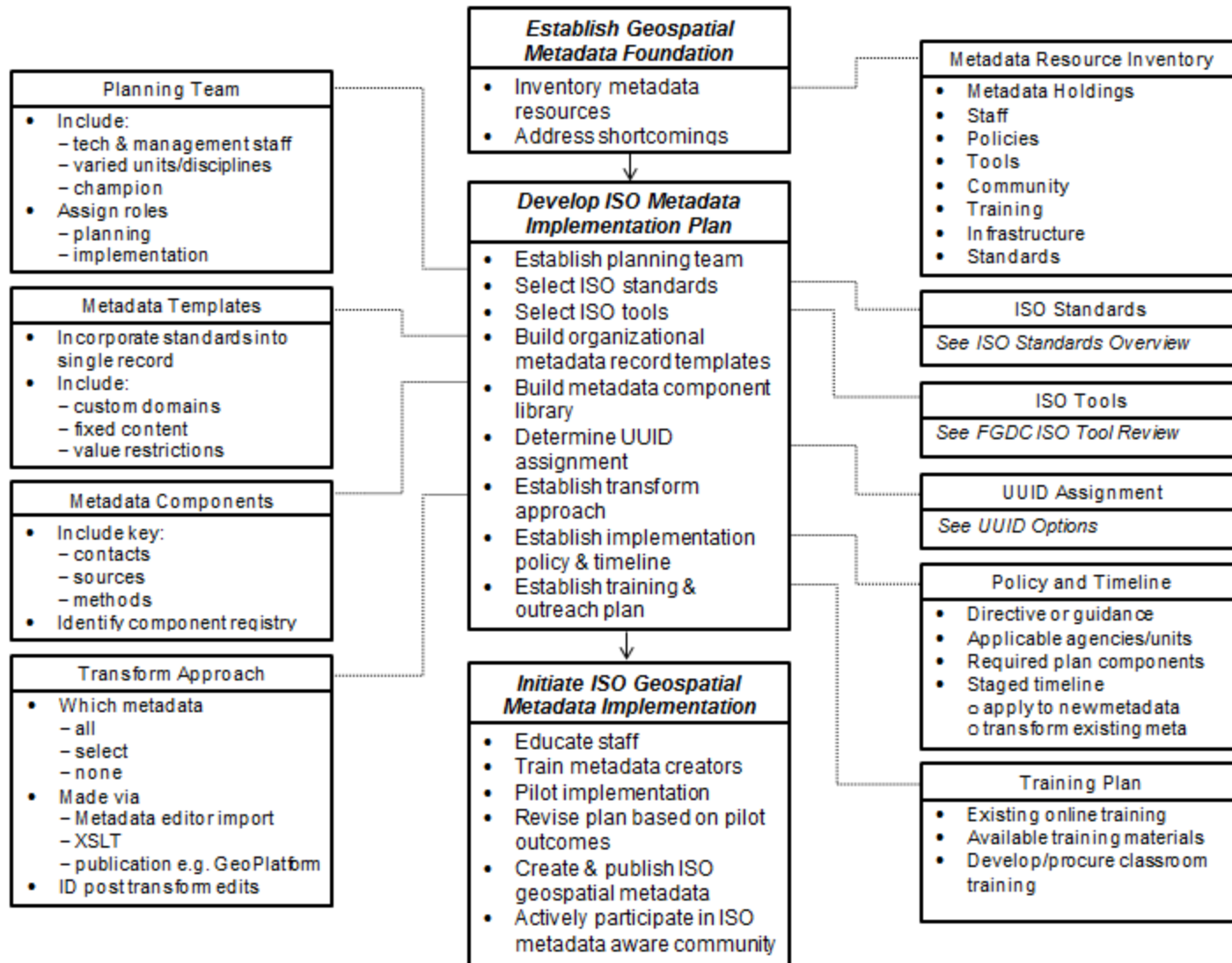
<http://www.fgdc.gov/metadata/iso-metadata-editor-review-v2>

# Recent Developments/Projects

- ◆ ISO Metadata Implementation Forum (ongoing)
  - **Purpose:** A monthly webinar information series for the presentation and discussion of ISO metadata implementation shared experiences, strategies, topics, and resources
  - **Audience:** FGDC Metadata Working Group & NSDI Stakeholders
  - **Presenters:** ISO metadata implementers from all community sectors
  - **Anticipated Outcomes**
    - ◆ ISO metadata implementation community of practice
    - ◆ Sessions documented and made available as information/training resource on FGDC website
    - ◆ Stimulate ideas and inform the ISO transition efforts
  - **Topics**
    - ◆ Standards
    - ◆ Tools/Transforms/Validation/Publication
    - ◆ Case Studies/Workflow Model



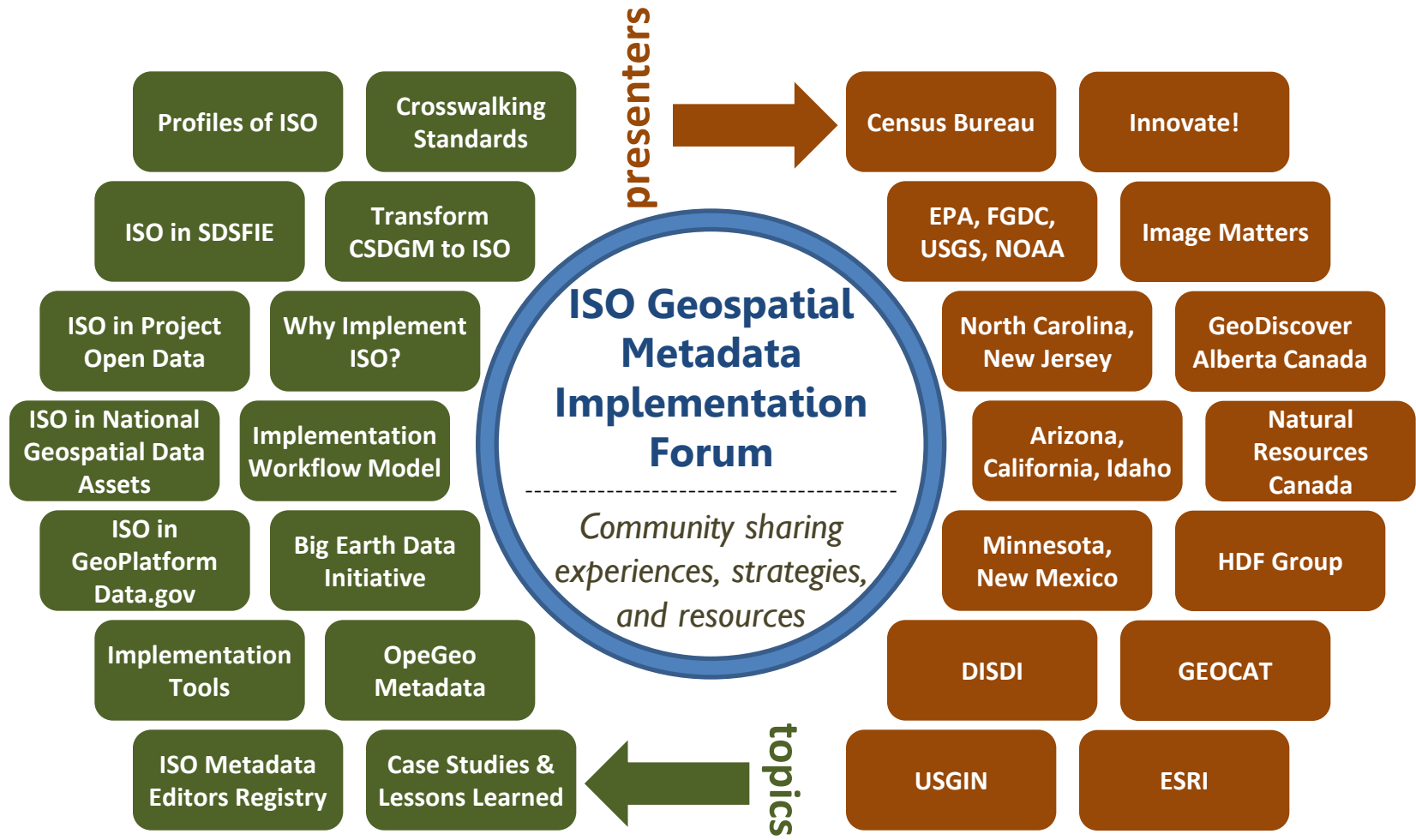
# ISO Metadata Implementation Model Workflow



# 2015 ISO Forum

<b>Date (Wednesdays)</b>	<b>Title</b>
<b>January 14</b>	<b>Creating Geospatial Metadata for Project Open Data</b>
<b>February 11</b>	<b>19115-3 XML Schema</b>
<b>March 11</b>	<b>Metadata Working Group Meeting</b>
<b>April 8</b>	<b>OpenGeoMetadata Initiative</b>
<b>May 13</b>	<b>Big Earth Data Initiative (BEDI)</b>
<b>June 10</b>	<b>Metadata Working Group Meeting</b>
<b>July 8</b>	<b>State and Provincial ISO Implementation Efforts</b>
<b>August 12</b>	<b>Metadata Tools and Special Applications</b>
<b>September 9</b>	<b>Metadata Working Group Meeting</b>
<b>October 14</b>	<b>ISO Metadata Profiles/Clearinghouses &amp; NextGen 911</b>
<b>November 18</b>	<b>ISO/North American Profile Implementation in Canada</b>
<b>December 9</b>	<b>Metadata Working Group Meeting</b>





# More information

- ◆ ISO Forum continues on second Wednesday of the month from 3 – 4:30 ET (alternate with MWG meetings). First meeting on Jan. 13, 2016
- ◆ If you are interested in presenting or have other topic suggestions, please send ideas to Lynda Wayne (LWayne@usgs.gov) or Jennifer Carlino (jcarlino@usgs.gov)
- ◆ Presentation Materials & Information are available at:

<http://www.fgdc.gov/metadata/events/iso-geospatial-metadata-implementation-forum/>



# Next Meeting



- ◆ Wednesday December 9, 2015 at 3 ET via teleconference
- ◆ Topics to be discussed:
  - FGDC standards endorsement process
  - ISO Metadata Standards
  - ISO Geospatial Metadata Editor Registry
  - Plans for topics/presentations for the ISO Metadata Implementation Forum
  - Standards Working Group connections

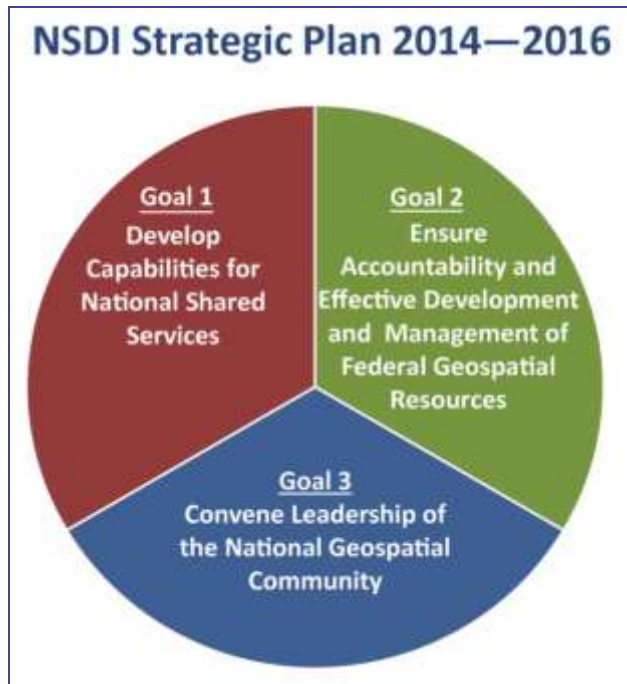


# Next Steps

- ◆ Discuss the following metadata program activities:
  - Endorse ISO geospatial metadata standards through FGDC process including:
    - ◆ ISO 19115-1:2014: Geographic information -- Metadata -- Part 1: Fundamentals
    - ◆ ISO 19115-3: XML schema implementation metadata fundamentals
    - ◆ ISO 19157:2013: Geographic information -- Data quality
    - ◆ ISO 19110:2005/Amd 1:2011: Geographic information -- Methodology for feature cataloguing AMENDMENT 1
  - Continue work on Metadata Best Practices document
  - Connect with GWG Metadata Focus Group: Mitch Lewis, NGA
  - Discuss possible face to face Workshop in 2016
    - ◆ Build on Summit (2011), Webinar (2013), and Forum (2014/15)
    - ◆ Hands on and breakout sessions
    - ◆ Addressing implementation challenges (e.g., workflow, policy, etc.)



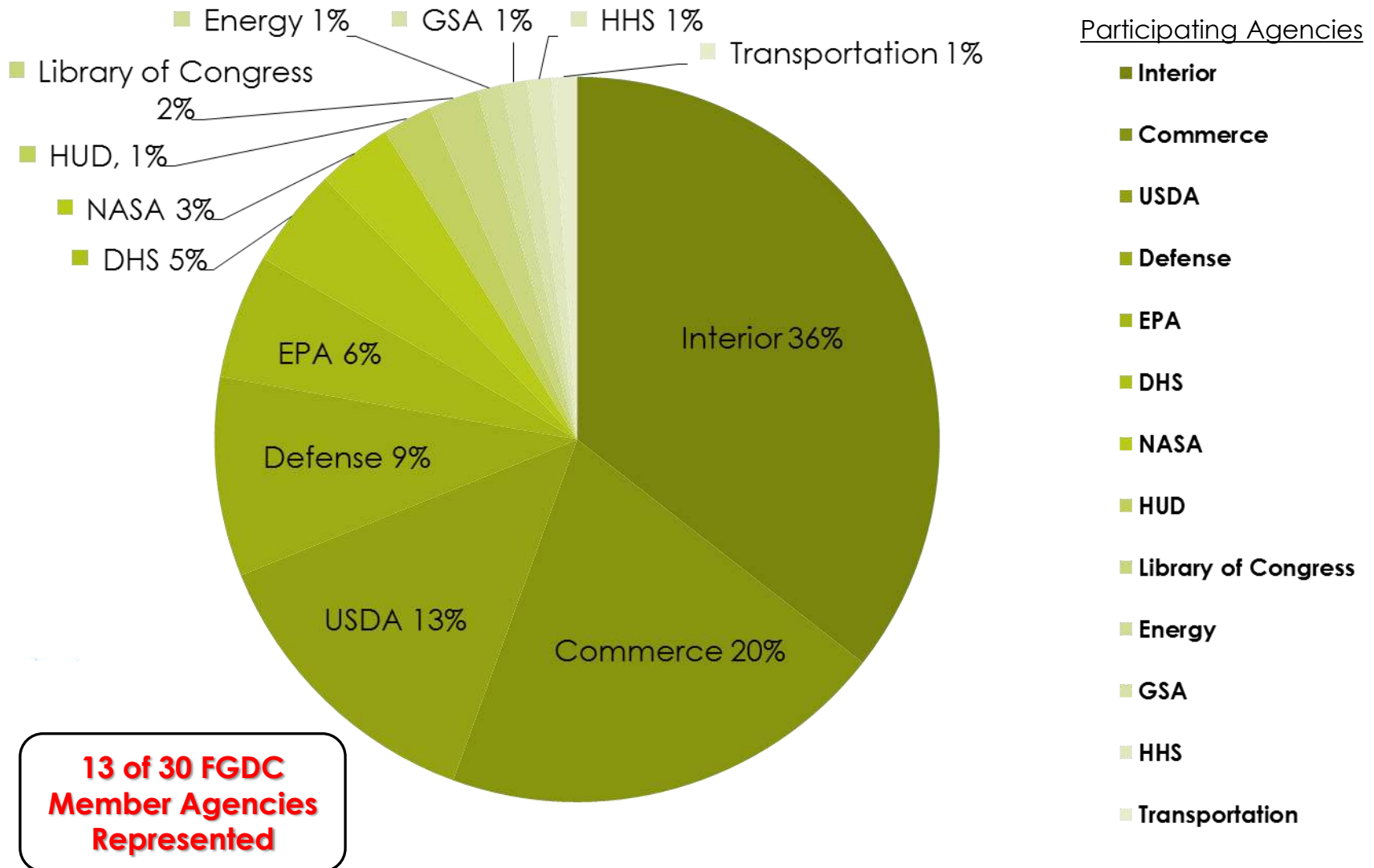
# Align MWG Activities to NSDI Strategic Plan



- 1.2.4.3. Define workflow for creating new communities on Geospatial Platform. ***Create and manage geospatial metadata community***
- 1.1.2.1. Develop components of Geospatial Interoperability Reference Architecture (GIRA). ***Identify possible metadata components to support GIRA***
- 3.1.1.1. Identify, monitor and participate in existing and emerging external geospatial communities. ***Identify metadata communities and report to MWG and SWG***



# Increase Federal MWG Members Distribution



# Questions?

Jennifer Carlino, FGDC OS

303.202.4260

[jcarlino@usgs.gov](mailto:jcarlino@usgs.gov)

