Metadata Working Group
Update to Coordination Group
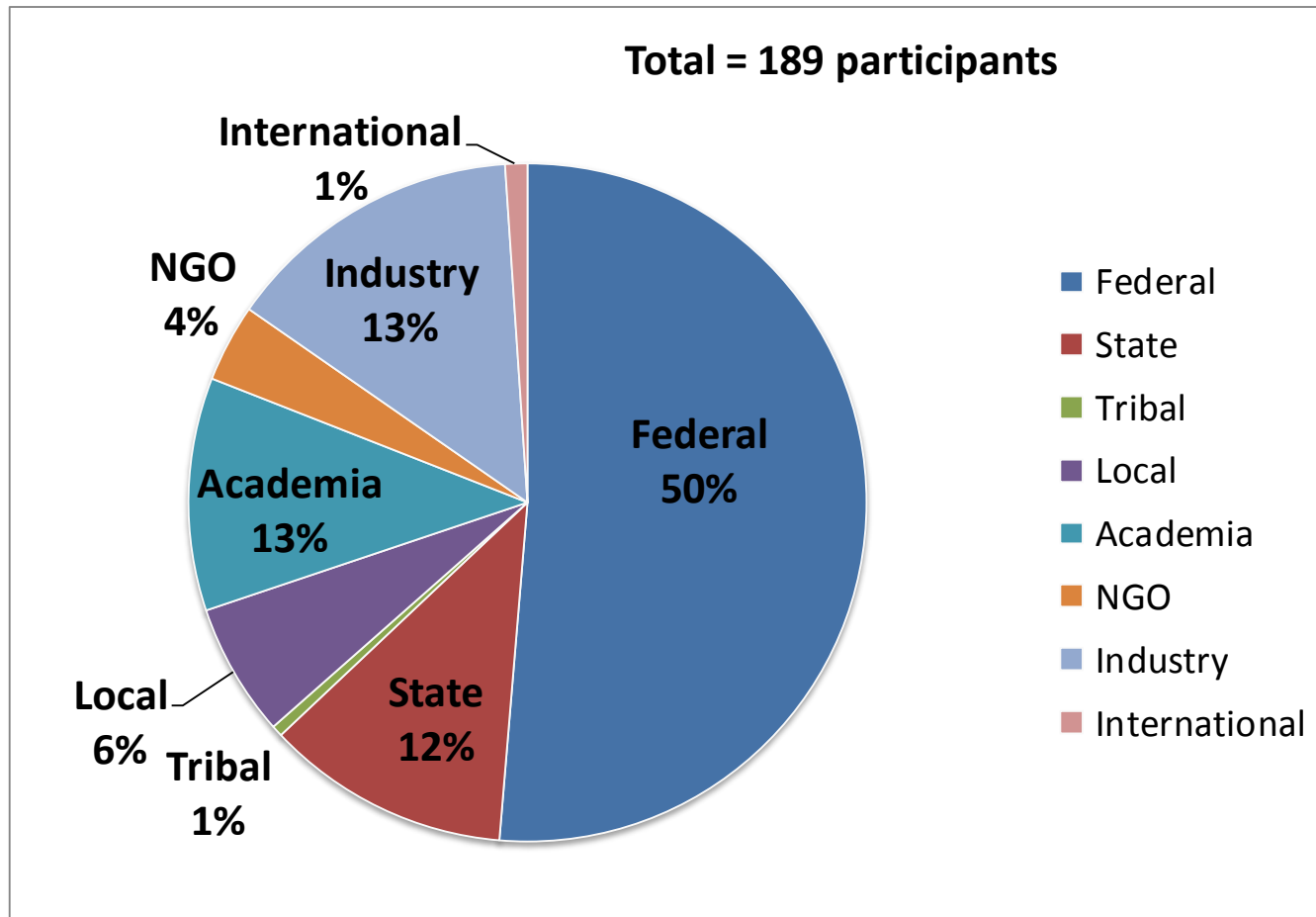
Jen Carlino

FGDC OS

November 8, 2016

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 = 189 participants

Federal 50%
State 12%
Tribal 1%
Local 6%
Academia 13%
NGO 4%
Industry 13%
International 1%

Legend:
- Federal
- State
- Tribal
- Local
- Academia
- NGO
- Industry
- International

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

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Members

Federal

Centers for Disease Control (1)

Department of Agriculture (11)

Department of Commerce (18)

Department of Defense (9)

Department Homeland Security (4)

Department of Housing and Urban Development (2)

Department of the Interior (38)*

Environmental Protection Agency (6)*

Federal Aviation Administration (1)

General Services Administration (1)

Library of Congress (2)

NASA (4)

International

Canada, GeoDiscover Alberta (2)

State

Illinois Geological Survey (1)

Indiana Geological Survey (1)

Alaska (1)

Colorado (1)

Florida (1)

Iowa (1)

Minnesota (3)

Mississippi (1)

Missouri (1)

New Jersey (3)

North Carolina (2)

North Dakota (1)

Oregon (2)

Virginia (1)

Washington (2)

* Indicates new member   *Italics* indicates new organization

Members Cont.

Tribal

Penobscot Indian National Tribal
 Administration (1)

Local

Champaign County Regional Planning
 Commission (2)
City of Sacramento (1)
City of Tampa (1)
Los Angeles County, California (1)
Miami-Dade County, Florida (5)
Westchester County, New York (2)

Academia

Columbia University (2)*
George Mason University (1)

Academia cont'd

Indiana University Northwest (1)
Iowa State University (1)
James Madison University (1)
Louisiana State University (1)
Michigan State University (2)
Northern Arizona University (1)
Stanford University (1)
University of Delaware (1)
University of Idaho (1)
University of New Mexico (1)
University of North Carolina (1)
University of Rhode Island (1)
University of Wisconsin (2)
Virginia Tech (1)
West Virginia University (1)
Western Illinois University (1)

Members Cont.

NGO

Conservation Biology Institute (1)

National Association of Regional
  Councils (1)

NatureServe (1)

Northwest Straits (2)

Point Blue Conservation Science(1)

Sonoma Ecology Center (1)

Industry

CDM Smith, Inc. (1)

Chevron Corporation (1)

DigitalGlobe, Inc. (1)

ESRI (5)*

Fugro EarthData, Inc. (1)

Industry Cont'd

GeoMaxim (1)

Grafton Technologies, Inc. (1)

Harris Corporation (1)

Image Matters (2)

Innovate! Inc. (2)

Intergraph Corporation (1)

Kucera International Inc. (1)

Marstel-Day (1)

MB&G (1)

Rayonier (1)

Sanborn, Inc. (1)

Southeastern Surveying and Mapping Corp (1)

The HDF Group (1)

Westat, Inc. (1)

WiSC Enterprises (1)

WMATA (1)

* Indicates new member   *Italics* indicates new organization

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 June 8, 2016

❖ The topics discussed at this meeting include:
  - ❖ Status of ISO 191** Suite of Metadata Standards
  - ❖ Update on endorsing ISO standards
  - ❖ Sharing applicable information from Standards Working Group

❖ Meeting outcomes include:
  - ❖ Increase understanding of status and relationships among ISO metadata standards
  - ❖ Discussing potential for a Metadata Workshop in 2017

❖ Meeting summaries and presentations available at:

http://www.fgdc.gov/participation/working-groups-subcommittees/mwg/index_html

Recent Developments/Projects

❖ Submitted proposal for FGDC Endorsement of two ISO metadata standards (CG approval, preparing for SC vote):

 ❖ INCITS/ISO 19115-1:2014 Geographic information -- Metadata -- Part 1: Fundamentals

 ❖ INCITS/ISO 19157:2013 Geographic information -- Data quality standard

❖ Updated National Geospatial Data Asset (NGDA) Metadata Guidelines

 ❖ Incorporated web service and data download links

 ❖ Updating NGDA metadata - several new services identified

Recent Developments/Projects

- ❖ Geospatial Community and Data.gov Collaboration
  - ❖ 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 (ongoing)
    - ❖ Working to simplify process, especially for CSDGM records and sample records being tested (bounding box and online link changed)

- ❖ Fundamental conduit for ISO updates (ongoing)
  - ❖ regularly discusses ISO activities, issues, and strategies
  - ❖ FGDC website provides educational resources

- ❖ Member participation in ISO standards including 19115-2 revision and 19165 Preservation of digital data and metadata development (now Committee Draft)

Recent Developments/Projects

❖ ISO Geospatial Metadata Editors Registry (ongoing)

  ❖ Share information about ISO creation tools

  ❖ Engaging software developers for testing

  ❖ Supporting User Reviews

    • MWG members only, constructive comments

ISO Geospatial Metadata Editors

Feature	GeoNetwork Opensource	CatMDEdit V.5.0	Esri Geoportal Server
	View Full Record	View Full Record	View Full Record
Geospatial Metadata Content Standards Supported			
ISO 19115:2003 - Metadata	full	full	full
ISO 19115-2 - Gridded Imagery Extension	full	none	full
ISO 19110 - Feature Catalog	full	full	full
ISO 19119 - Services	full	full	full
ISO 19115-1 - Metadata Fundamentals	full	none	full
Other Related Metadata Standards	View	View	View
User Interface			
GUI	✔	✔	✔
Edit XML Directly	✔		✔
Other / Comments	View	View	View
Operating Platform			
Desktop	✔	✔	
Distributed/Enterprise	✔		✔
Online Application	✔		✔
Other / Comments	View		
Proprietary Nature			
Open Source (publicly available)	✔	✔	✔
Source Code Available (customers only)	✔	✔	✔
Free or Shareware	✔	✔	✔
Other / Comments	View		View

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

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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

  ❖ Schedule: Second Wednesday of the month from 3 – 4:30 ET (alternate with MWG meetings). First meeting on Jan. 11, 2017

❖ If you are interested in presenting contact Jennifer Carlino (jcarlino@usgs.gov)

❖ Presentation Materials & Information are available at:

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

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ISO Forum Topics

ISO Geospatial Metadata Implementation Forum

Community sharing experiences, strategies, and resources

Profiles of ISO

Crosswalking Standards

Census Bureau

Innovate!

ISO for INSPIRE Directive

Transform CSDGM to ISO

EPA, FGDC, USGS, NOAA

Image Matters

ISO in Project Open Data

Why Implement ISO?

North Carolina, New Jersey

Swedish Geodata

ISO in National Geospatial Data Assets

Implementation Workflow Model

Arizona, California, Idaho

Natural Resources Canada

ISO in GeoPlatform Data.gov

Common Metadata Repository

Minnesota, New Mexico

DOE, NASA

Implementation Tools

OpeGeo Metadata

GeoDiscover Alberta Canada

GEOCAT

ISO Metadata Editors Registry

Case Studies & Lessons Learned

USGIN

ESRI

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Next Meeting

- ❖ Wednesday December 14, 2016 at 3 ET via teleconference

- ❖ Topics to be discussed:
  - ❖ Update on ISO metadata standards endorsement
  - ❖ Update on ISO metadata standards
  - ❖ ISO Geospatial Metadata Editor Registry
  - ❖ Plans for topics/presentations for the ISO Metadata Implementation Forum
  - ❖ Standards Working Group connections
  - ❖ Planning for 2017

Next Steps

Discuss the following metadata program activities:

❖ Participate in Geospatial Platform Workshop Dec. 7&8

❖ Propose endorsement of ISO geospatial metadata standards through FGDC process including:

- ISO 19115-3: XML schema implementation metadata fundamentals
- ISO 19110:2005/Amd 1:2011: Geographic information -- Methodology for feature cataloguing

❖ Continue work on Metadata Best Practices document

❖ Discuss face to face Workshop in 2017

- Build on Summit (2011), Webinar (2013), Forum (2014-16)
- Hands on and breakout sessions
- Addressing implementation challenges (e.g., tools, policy, etc.)

Questions?

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