Agenda

- Announcements
- Update on ISO Metadata Standards
- NSDI Strategic Plan – Action Plan
- News from the Field
Announcements

Discuss metadata activities
Announcements

Standards Working Group met February 20

- Address Standard is undergoing revision coordination on the methods used to reference GML geometric objects & the manner geometries are provided for in the Address standard with
  - NGA Time, Space, Position Information (TPSI) standard
  - DoD Real Property Data Model

- Weights and Measures presentation – Ambler Thompson, NIST
  https://www.dropbox.com/l/l7jp4R2QPk1jlnWDUGIfgd?
Announcements

- ISO Metadata Editor
  - Pending web application scan/approval
  - Announce availability to application developers ASAP
  - Features to be presented at April ISO Forum
Announcements

- ISO Metadata Implementation Forum
  Second Wednesday each month (except MWG – Jun, Sep, Dec)

  **April 9:** Community ISO Metadata Implementation Resources
  - GeoPlatform
  - ISO Metadata Editor Review
  - EPA Metadata Editor (EME) Update & Future Plans

  **May 14:** Commercial ISO Metadata Implementation Resources
  - ESRI Metadata Editor
  - Other

  **July 9:** ISO Metadata Implementation Model Workflow

More information and past presentations
http://www.fgdc.gov/metadata/events/iso-geospatial-metadata-implementation-forum/index_html
Announcements

A-16 Portfolio Management Implementation Plan

**Drivers:**
- OMB Circular A-16, A-16 Supplemental Guidance
- National Geospatial Advisory Committee recommendations

**Process:**
- Core team coordinating with Theme Leads and Dataset Managers
- Interagency project team:
  - Executive Champions: Adrian Gardner (FEMA), Ivan DeLoatch (FGDC)
  - Writing Team Lead: Jen Carlino (USGS/FGDC/CSAS)
A-16 National Geospatial Data Assets (NGDA) PfM Roles and Responsibilities

**Executive Level**
- Management of the NGDA Portfolio
- Reporting on NGDA Portfolio to OMB
- Recommend Portfolio Priorities and cross-cutting investment levels to OMB
- Coordination with NGDA Executive Champions, Theme Leads, Working Groups, and Stakeholder Organizations

**Theme Level**
- Management of NGDA Theme
- Reporting on NGDA Theme to FGDC Steering Committee and Coordination Group
- Manage A-16 Theme Community on the Geoplatform
- Utilize Thematic Subcommittee/Coordinating Bodies to support theme implementation
- Coordination with FGDC, Executive Champion, Dataset Managers, Theme Level COIs, and other Themes' Leads

**Dataset Level**
- Management of NGDA Dataset via Lifecycle Management Process
- Assessment of NGDA Dataset Maturity
- Reporting state of the NGDA Dataset annually
- Documentation and registration of NGDA Datasets on the Geoplatform
- Coordination with Data Stewards, Theme Leads, and Dataset COIs
Objectives and projected timeframe for NGDA A-16 Portfolio management

<table>
<thead>
<tr>
<th>Preparing the Management and Reporting Framework</th>
<th>FY11/13</th>
<th>FY14</th>
<th>FY15</th>
<th>FY16</th>
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<tbody>
<tr>
<td>Develop/Maintain Process for Selecting/Updating A-16 SG Roles</td>
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<td>Define Scope of the A-16 NGDA Portfolio</td>
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<td>Establish Collaboration Mechanisms</td>
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<td>Establish Planning/Reporting Tools</td>
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<td>Codify the Definition of a Geospatial Investment</td>
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<td>Assessing</td>
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<tr>
<td>Assess NGDA Datasets, Themes, and their Maturity Level</td>
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<td>Planning</td>
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<tr>
<td>Prepare Strategic Theme Plan</td>
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<td>Planning</td>
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<tr>
<td>Create, Execute, and Maintain Collaboration and Coordinating Mechanisms</td>
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<tr>
<td>Reporting</td>
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<tr>
<td>Populate NGDA Dataset, Theme, and Portfolio Summary Reports</td>
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<td>Prioritize/Budget</td>
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<tr>
<td>Develop the Executive-Level Priority Setting/Budget Process</td>
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# Implementation Plan Schedule

<table>
<thead>
<tr>
<th>Timeframe</th>
<th>Activity</th>
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<tbody>
<tr>
<td>...</td>
<td>Feb – July 2013 actions removed for clarity</td>
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<tr>
<td>Sep 4, 2013</td>
<td>Implementation Plan 1st draft released for core team review</td>
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<tr>
<td>Sep 12, 2013</td>
<td>Steering Committee Meeting and request for additional representatives to work on plan</td>
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<tr>
<td>Sep 20, 2013</td>
<td>Small core team vetted approach and revised draft plan outline</td>
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<tr>
<td>Oct 31, 2013</td>
<td>Theme Leads meeting on content, actions and writing team (rescheduled from 10/2/13)</td>
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<tr>
<td>Nov 13, 2013</td>
<td>Convene core group to prepare rough draft</td>
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<tr>
<td>Nov 14, 2013</td>
<td>Convene writing team to develop 1st draft (begin weekly meetings)</td>
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<td>Nov 19, 2013</td>
<td>Theme Lead meeting – focus on implementation steps and actions</td>
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<tr>
<td>Nov 27, 2013</td>
<td>Core group develops, 2nd draft from Theme Lead meeting input and submitted comments</td>
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<tr>
<td>Dec 6, 2013</td>
<td>Draft plan to writing team for review (Core Team comments on v7.0, 12/9 meeting to adjudicate comments)</td>
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<tr>
<td>Dec 11, 2013</td>
<td>Draft plan to Theme Leads / Coord. Group for review/comment (due 12/16, Core team adjudicates 12/17)</td>
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<tr>
<td>Dec 19, 2013</td>
<td>Draft to Executive Committee, Coordination Group, Executive Champions, for review and comment (final comments by 1/10)</td>
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<tr>
<td>Jan 10-16, 2013</td>
<td>Writing team reviews comments and updates draft</td>
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<tr>
<td>Jan 17, 2014</td>
<td>Revised draft to Steering Committee, Coordination Group, NGAC subcommittee for review/content (Due 1/28)</td>
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<td>Jan 28-Feb 11</td>
<td>Adjudication of comments and edits</td>
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<td>Feb 11, 2014</td>
<td>Revised Draft Final (v4) to Steering Committee - cc Coord. Group and Theme Leads (comments due Monday 2/24)</td>
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<tr>
<td>Feb 13, 2014</td>
<td>Steering Committee Meeting – canceled due to weather closure</td>
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<td>Feb 24-28</td>
<td>Adjudicate comments/feedback, develop Final Draft for Vote (v5)</td>
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<tr>
<td>Mar 5, 2014</td>
<td>Final Draft for Vote (v5) to Steering Committee for electronic approval (vote response due March 18)</td>
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<tr>
<td>Mar 18-21</td>
<td>Prepare Approved Final Document for release</td>
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<tr>
<td>Mar 31, 2014</td>
<td>Revised action due date of Steering Committee approved Implementation Plan to GAO*</td>
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</table>

*Plan implementation is supported by Geospatial Platform tools still to be developed. The plan may be revised and updated to align with actual implementation solutions as they are developed.

Items in yellow are complete
Update on ISO Standards

Dave Danko, ESRI
Geographic information — Metadata —
Part 1: Fundamentals

Information géographique — Métadonnées —
Partie 1: Principes de base
FDIS Vote

- 29 Yes
- 1 No vote:
  - Although Iran agrees in principle with the current FDIS in view of technical advancements, we believe that backward compatibility issues will necessitate extra rework for stakeholders already using the previous version.
  - These stakeholders might not be able to upgrade their software in a short timeframe due to various operational considerations, therefore will have to continue using the previous version of the standard in their domain of activity.
- 6 abstain
- 15 comments
  - 2 technical (not accepted)
  - 13 editorial (accepted)
Geographic information — Metadata —
Part 1: Fundamentals

Information géographique — Métadonnées —
Partie 1: Principes de base
Definitional/encoding specification relationship

Today
- ISO 19115:2003 Metadata
- ISO 19113:2002 Quality principles
- ISO 19114:2003 Quality eval procedure
- ISO 19110:2005 Feature Catalogue
- ISO 19115-2:2009 Metadata-Imagery
- ISO 19119:2005 Services

Encoding
- ISO 19139:2007 Metadata XML encoding
- ISO 19139-2:2012 Metadata imagery encoding
  - OGC services

Future
- ISO 19115-1 Metadata fundamentals Including Services metadata
- ISO 19115-3 Metadata fundamentals XML encoding
- ISO 19157 Data quality
- ISO 19157-2 Data quality XML encoding NWIP released
- ISO 19115-2: Extending 19115-1 Metadata-Imagery
- ISO 19115-2 Rev Metadata imagery Systematic review started 1/31/14 - 6/16/14
- ISO 19110:2015 Feature catalogue

Not in work yet
ISO 19115-3 - Metadata - XML Schema implementation for fundamental concepts

**Scope**
- XML Schema that implements ISO 19115-1
- Set of ISO/IEC 19757-3 (Schematron) rules that implement validation constraints in ISO 19115-1 not specified by XML Schema
- Set of XSLT for transforming XML encoded 19139 to 19115-3
- Set of XSLT for transforming 19115-3 to 19139
- Uses same ISO 19118/19139 encoding rules as 19139

**Structure**
- Same 7 namespaces for external standards (gco, gml, gss, gsr, gts, xs, xlink)
- 18 new namespaces vs 1 (gmd)
- 6 new namespaces for Aggregation of packages ex. mdb MetadataBase (only mandatory); mds – Metadata for Data and Services (full metadata for catalogs, etc); mdt – Metadata for Data Transfer; . . .
- Requirements classes (48): Metadata core, modules, and interchange
Schedule

- ISO 19115-1
  - International Standard (IS) 2014-03-15

- ISO 19115-3 XML schema implementation of metadata fundamentals
  - DTS ballot 2014-02 2014/04-28
  - DIS 2014-12
  - FDIS 2015-12
  - IS 2016-06

- ISO 19157 Data Quality
  - IS 2013-12-06

- NWIP ISO 19157-2 Data Quality XML schema
    - First meeting at Berlin ISOTC 211 meeting

- ISO 19110 Methodology for feature cataloguing
  - DIS ballot 2013-09-05 2014-02-05
    - Passed no negative votes
  - FDIS 2014-07
  - IS 2015-01

- ISO 19130-2 Imagery sensor models for geopositioning Part 2: SAR, InSAR, Lidar and Sonar
  - TS 2014-02-11

Final
NSDI Strategic Plan
Action Plan

Overview and MWG Input

www.fgdc.gov/nsdi-plan
**FGDC Steering Committee**

- Final Draft distributed to Steering Committee on December 5 for electronic vote.
- Approved by Steering Committee – December 13, 2013

**National Geospatial Advisory Committee**

- Final Draft reviewed and considered at December 11 NGAC public meeting
- Endorsed by NGAC – December 11, 2013
NSDI Strategic Plan 2014—2016

NSDI Strategic Plan Includes:

- 3 Strategic Goals
- 9 Objectives
- 29 Actions
STRATEGIC GOAL 1:
Develop Capabilities for National Shared Services

Objective 1.1. Develop geospatial interoperability reference architecture

Objective 1.2. Establish the Geospatial Platform as the Federal geospatial data, services, and applications Web-based service environment

Objective 1.3. Expand the use of cloud computing

Objective 1.4. Promote the use of geospatial multiagency acquisition vehicles for interagency and intergovernmental purchases
STRATEGIC GOAL 2:
Ensure Accountability and Effective Development and Management of Federal Geospatial Resources

**Objective 2.1.** Advance the portfolio management process for National Geospatial Data Assets (NGDA)

**Objective 2.2.** Identify potentially duplicative investments and opportunities for collaborative investments
STRATEGIC GOAL 3:
Convene Leadership of the National Geospatial Community

**Objective 3.1.** Lead and participate in the development and coordination of national and international standards applicable to the geospatial community

**Objective 3.2.** Convene the leadership of the geospatial and nongeospatial communities to develop public/private partnerships and shared approaches for addressing critical national issues

**Objective 3.3.** Raise awareness of the NSDI and its impact on critical national and international issues
Main Roles & Responsibilities

- **Executive Sponsors**: Anne Castle (DOI, FGDC Chair), Scott Bernard (OMB, FGDC Vice-Chair), Dan Cotter (DHS), Ivan DeLoatch (FGDC Executive Director)

- **FGDC Executive Committee**: Will have the lead responsibility for overseeing and monitoring implementation of the NSDI strategic plan.

- **Action Teams**: Designated to address the 29 Actions in the NSDI plan. Existing teams will be utilized where possible and teams may be responsible for multiple Actions.

- **FGDC Coordination Group**: Communicate NSDI actions plan responsibilities within their agencies, provide interagency coordination, and provide ongoing input to the process.

- **National Geospatial Advisory Committee**: Provide ongoing feedback on the implementation strategy and approach, and gather input from organizations represented on the NGAC.
**Draft NSDI Action Plan**

**Objective 3.1.** Lead and participate in the development and coordination of national and international standards applicable to the geospatial community

**Anticipated Outcomes.** Greater adoption and utilization of standards resulting in enhanced interoperability of geospatial data, services, and systems. Decreased barriers to exchanging geospatial content effectively and efficiently by reducing technical impediments to sharing geospatial data and services.

- **Action 3.1.1.** Consult and collaborate with both existing and emerging geospatial communities to advance common standards and approaches.
- **Action 3.1.2.** Develop strategic partnerships with existing standards development organizations.
- **Action 3.1.3.** Provide technical and educational support to agencies implementing NSDI standards and engage the standards community through workshops or online information-sharing tools such as Web meetings or social media.
MWG Participation/Feedback

In each Action there are a series of Tasks
- Are these the right tasks?
- Where are possible MWG interactions?

For example:

<table>
<thead>
<tr>
<th>Tasks</th>
<th>MWG actions for consideration</th>
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<tbody>
<tr>
<td>3.1.1.1 Maintain leadership and participation in existing geospatial communities</td>
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<tr>
<td>Active participation in OGC, INCITS L1/US TAG, ISO TC 211?</td>
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<tr>
<td>3.1.1.6 Establish relationships with other Federal standardization activities</td>
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<tr>
<td>Monitor Open Data dialog &amp; engage as relevant to metadata?</td>
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<tr>
<td>3.1.3.2 Promote existing online technical and education support to the FGDC community</td>
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<tr>
<td>Document &amp; promote Geospatial Metadata Training and education?</td>
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<tr>
<td>Other?</td>
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NSDI Action Plan Next Steps

- For MWG
  - Review NSDI Action Plan Goal 3, Objective 3.1 - Version 4
  - Provide feedback on specific tasks and where MWG might support activities
  - Provide comments back to Julie Maitra (jmaitra@usgs.gov) by March 19

- Key dates in process
  - March 28 – Action team leads to submit draft action plans
  - April 1-30 – ExCom/Core Team/CG to review draft action plans for consistency and finalize
News from the Field

Announcements from
Metadata Working Group Members
News From the Field

- EPA Metadata Editor Updates
  Dan Spinosa, Innovate!
  Torrin Hultgren, EPA
Next MWG Meeting:
June 11, 2014

Comments and Ideas:
fgdc@fgdc.gov or jcarlino@usgs.gov