

Federal  
Geographic  
Data  
Committee

## Metadata Working Group

Quarterly Telecon  
March 12, 2014

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# 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/I/I7jp4R2QPk1JInWDUGIfgd?>



# 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](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
- GAO Report (GAO-13-94): Geospatial Information – OMB and Agencies Need to Make Coordination a Priority to Reduce Duplication (November 2012)
- National Geospatial Advisory Committee recommendations
- Open Data Policy, Digital Government Strategy, Open Government Directive

### ▪ 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

### •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

### •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

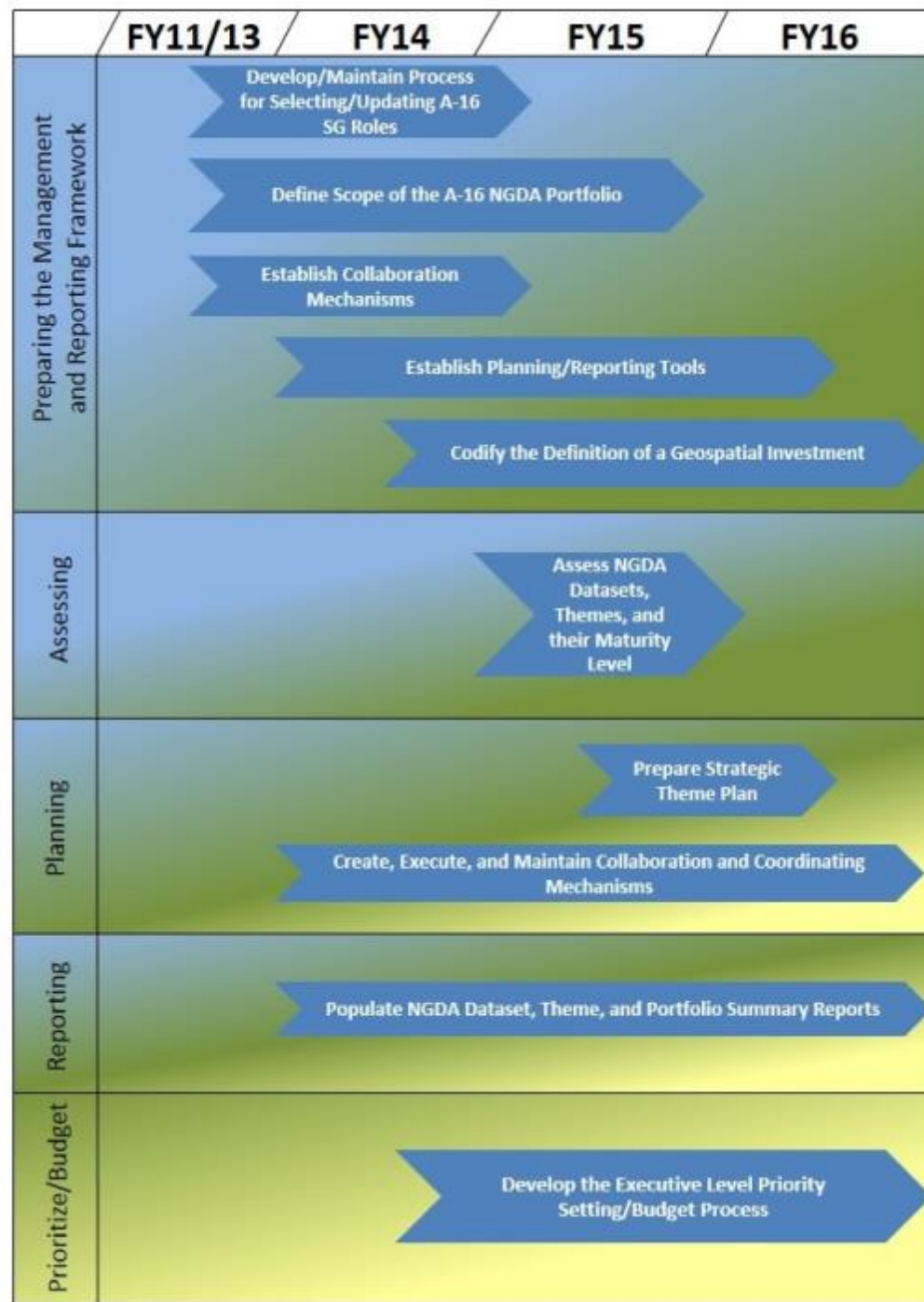
## Dataset

### •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



# Implementation Plan Schedule

Versions: 11-5-13, 11-25-13, 12-6-13, 12-9-13, 1-3-14, 1-10-14, 2-3-14, 2-11-14, 3-10-14

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

\*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

INTERNATIONAL  
STANDARD

ISO  
19115

First edition  
2003-05-01

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**Geographic information — Metadata**

*Information géographique — Métadonnées*



Reference number  
ISO 19115:2003(E)

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INTERNATIONAL  
STANDARD

ISO  
19115-1

First edition  
2014-03-15

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**Geographic information —  
Metadata —**

**Part 1:  
Fundamentals**

*Information géographique — Métadonnées —  
Partie 1: Principes de base*



Reference number  
ISO 19115-1:2014(E)

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ISO/TC 211

Secretariat: SN

Voting begins on:  
2013-11-21

Voting terminates on:  
2014-01-21

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## Geographic information — Metadata —

### Part 1: Fundamentals

*Information géographique — Métadonnées —  
Partie 1: Principes de base*

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IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.



Reference number  
ISO/FDIS 19115-1:2013(E)

## 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)



INTERNATIONAL  
STANDARD

ISO  
19115-1

First edition  
2014-03-15

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**Geographic information —  
Metadata —**

**Part 1:  
Fundamentals**

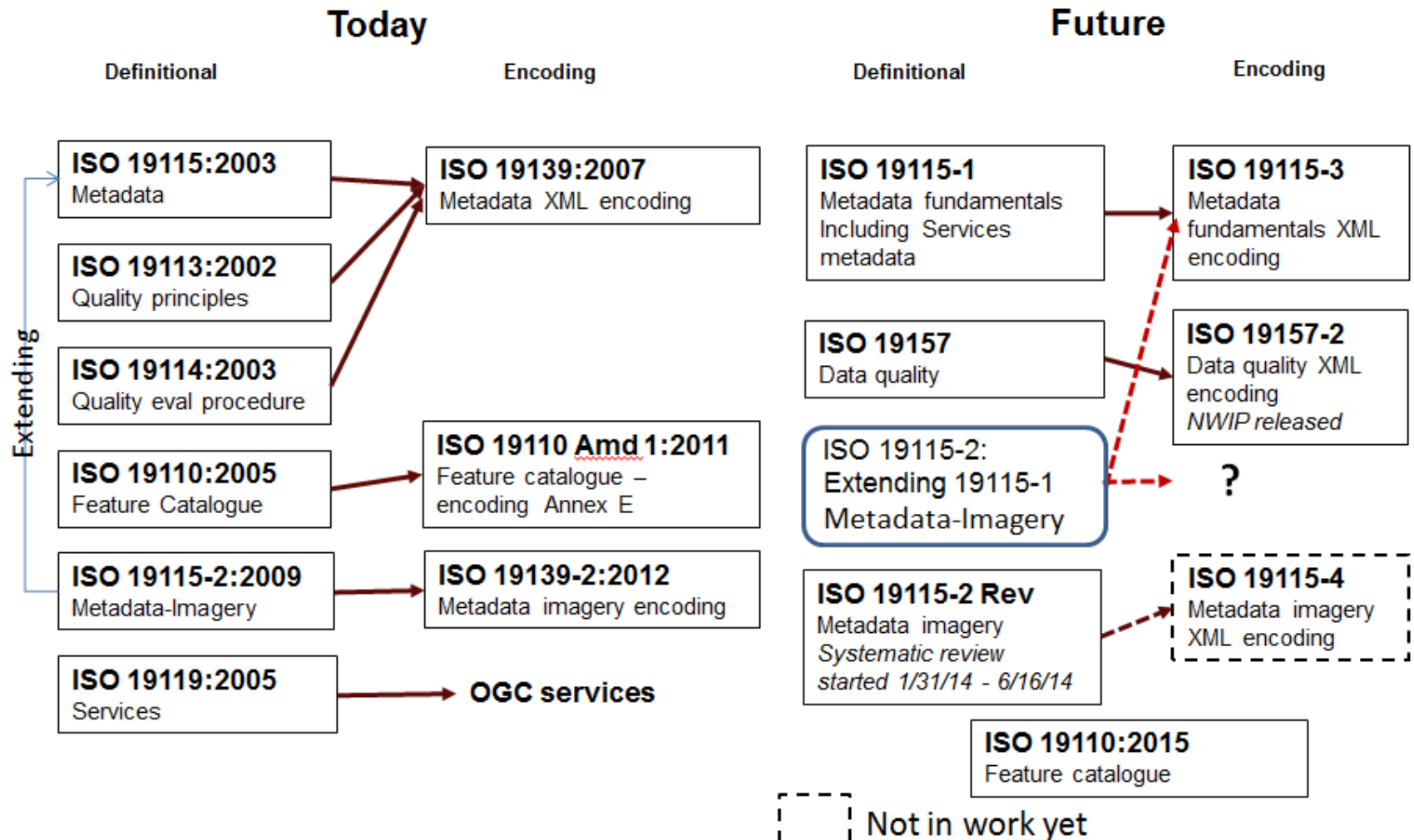
*Information géographique — Métadonnées —  
Partie 1: Principes de base*



Reference number  
ISO 19115-1:2014(E)

© ISO 2014

# Definitional/encoding specification relationship



# 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 name spaces 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
  - NWIP ballot 2014-02-13 2014-05-13
    - 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](http://www.fgdc.gov/nsdi-plan)

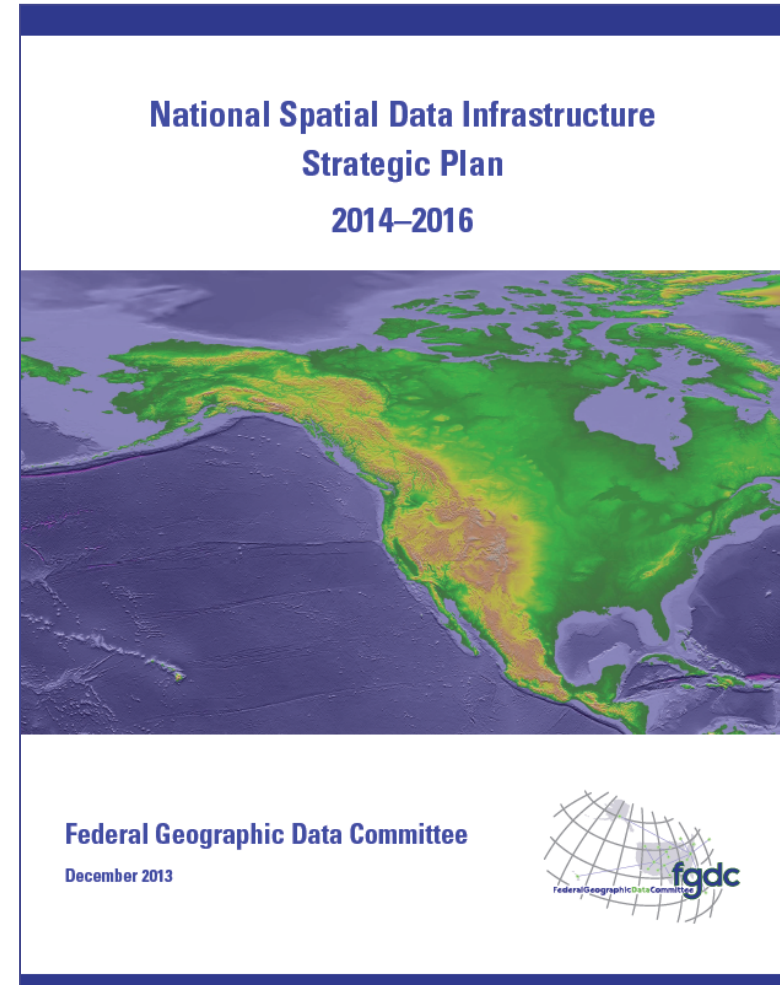
# NSDI Strategic Plan – Final Version

## 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



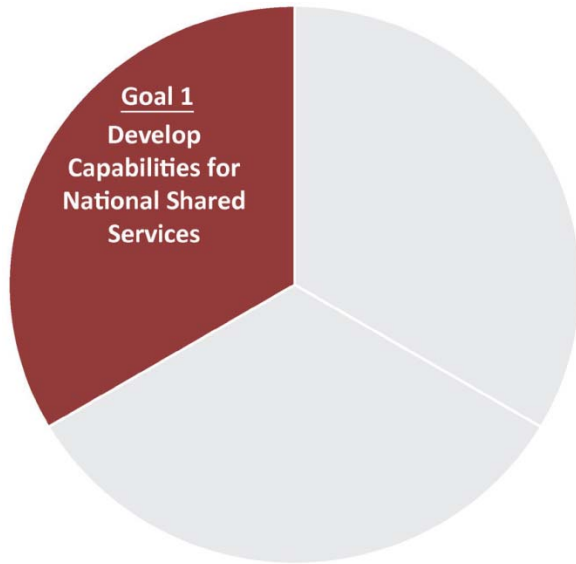


# NSDI Strategic Plan 2014—2016



## NSDI Strategic Plan Includes:

- 3 Strategic Goals
- 9 Objectives
- 29 Actions



## **STRATEGIC GOAL 1:**

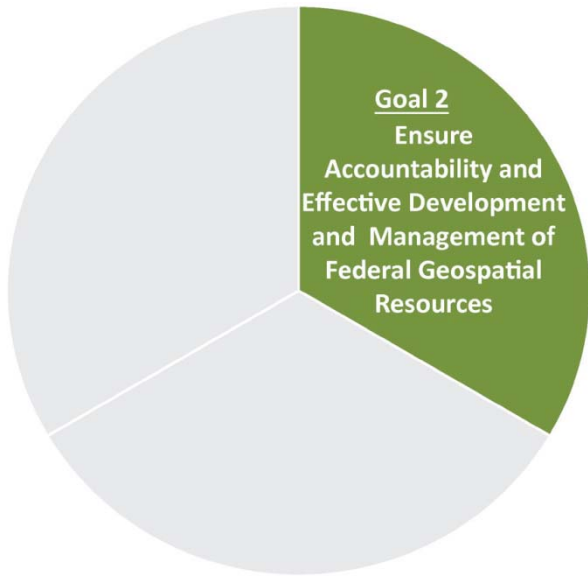
### **Develop Capabilities for National Shared Services**

**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



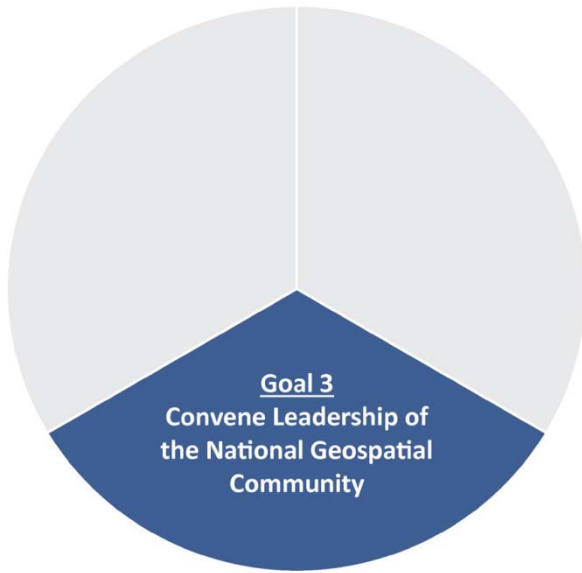
## STRATEGIC GOAL 2:

### **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:

## Tasks

## MWG actions for consideration

3.1.1.1 Maintain leadership and participation in existing geospatial communities

Active participation in OGC, INCITS L1/US TAG, ISO TC 211?

3.1.1.6 Establish relationships with other Federal standardization activities

Monitor Open Data dialog & engage as relevant to metadata?

3.1.3.2 Promote existing online technical and education support to the FGDC community

Document & promote Geospatial Metadata Training and education?  
Other?

## 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](mailto: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 Spinoso, Innovate!  
Torrin Hultgren, EPA

# Next MWG Meeting: June 11, 2014

Comments and Ideas:

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