Coordination Group Meeting
FGDC Business Report

Ken Shaffer
Deputy Executive Director
Federal Geographic Data Committee
April 4, 2017
April 2017 Coordination Group Meeting

Due to meeting conflicts, April’s CG meeting has been canceled. This report is being provided to the members in lieu of a meeting.
FGDC Leadership Changes

- Acting FGDC Chair – Kerry Rae, DOI Acting Principal Deputy Assistant Secretary for Water & Science
- Tod Dabolt, DOI GIO – New Chair of the Homeland Infrastructure Foundation-Level Database (HIFLD) subcommittee
Committee’s Decisions Summary

On December 16, the FGDC Steering Committee approved the *National Spatial Data Infrastructure (NSDI) Strategic Framework* document.

- Describes a broad national approach for the continued sustainable development of the NSDI.
- Includes goals and objectives for the Federal government's role and also includes strategies and possible actions for the greater geospatial community to work collaboratively on broader national issues.
- The final framework addresses comments received through the comment period and through the most recent meetings with the FGDC Steering Committee, the NGAC, and the Leaders Forum. The NSDI Core Team has adjudicated the comments and made updates and changes to the plan where appropriate. The document is available at [https://www.fgdc.gov/nsdi-plan/2017/nsdi-strategic-framework-document-released](https://www.fgdc.gov/nsdi-plan/2017/nsdi-strategic-framework-document-released)
Committee’s Decision Summary

- The *FGDC Recommendations for the 2017 Transition* paper was approved on December 9th. This document is written from a federal perspective and is intended for use by the DOI and other FGDC agencies to inform the incoming Administration of its importance, opportunities, and broad support across the community. The document is being limited to one-page (front and back).

- The *Department of Homeland Security (DHS) Geospatial Information Infrastructure (GII)* paper was developed to emphasize the federated relationship between the Geospatial Platform (public) and DHS GII (sensitive but unclassified) platform.

- Both documents in addition to the NGAC recommendation documents are available here [https://www.fgdc.gov/2017transition](https://www.fgdc.gov/2017transition)
Overview of Administration Transition Activities

- DOI landing team requested briefing on the FGDC and on OMB Circular A-16 Supplemental Guidance progress (geospatial portfolio management)
  - Current, recent, and planned activities covered, FGDC and NGAC activities
  - Transition documents shared
  - Follow-up briefings on FGDC and GeoPlatform requested and held

- Transition papers shared with DOI landing team [www.fgdc.gov/ngac/2017transition](http://www.fgdc.gov/ngac/2017transition)
  - FGDC Transition Paper and DHS Transition paper on Geospatial Information Infrastructure and GeoPlatform
  - NGAC Transition Paper
  - NGAC Transition Infographic

- Recommendation: FGDC agencies should develop a common Government Performance and Results Act (GPRA) geospatial coordination and development goal
  - GPRA is designed to improve government performance management
CG and SC Monthly Membership Changes

- Department of Housing and Urban Development
  - Ted Payne, is the new Senior Agency Official for Geospatial Information (SAOGI) replacing Calvin Johnson

- Library of Congress
  - Dr. Paulette Hasier, is the new SAOGI replacing Ralph Ehrenberg

- Small Business Administration
  - Maria Roat, is the new SAOGI replacing Deborah Anderson

- U.S. Army Corps of Engineers
  - Dr. Larry McCallister, is the new SAOGI replacing James Dalton

- Once a new FGDC chair is identified, agencies will be asked to reaffirm/identify their SAOGIs and Coordination Group representatives
The FGDC Steering Committee met on Thursday, March 23th at DOI, South Penthouse.

- Acting FGDC Chair is Kerry Rae, DOI Acting Principal Deputy Assistant Secretary for Water & Science

- Discussion topics:
  - FGDC Business Activities
  - United Nations Initiative on Global Geospatial Information
  - Address Theme Status Update and National Address Database
  - NGAC Meeting Summary
  - NGDA Cultural Resources Theme Report
  - Geospatial Platform Update

- Executive Committee Meeting week of April 24
  - Poll to ExCom members due 4/4
Steering Committee (cont’d)

Vote on Address Theme Definition

- On March 24, 2017, the Steering Committee voted to endorse the Address Theme Definition.

- Vote Results: 21 Affirmative and Non-responses
  - Yes: 12
  - No: 0
  - Non-Response: 9

- Non-responses are counted as affirmative votes, as outlined in the initial vote call email sent to the Steering Committee on March 13th 2017.
NGAC Membership – March 2017

Ms. Julie Sweetkind-Singer (Chair)*
Stanford University

Mr. Keith Masback (Vice-Chair)*
U.S. Geospatial Intelligence Foundation

Dr. David Alexander
Department of Homeland Security

Mr. Frank Avila
National Geospatial-Intelligence Agency

Dr. Sarah Battersby
Tableau Software

Mr. Talbot Brooks
Delta State University

Mr. Gar Clarke*
State of New Mexico

Mr. Garet Couch*
National Tribal GIS Center

Ms. Patricia Cummens*
ESRI

Mr. Stuart Davis*
State of Ohio

Mr. Matthew Gentile
Deloitte Financial Advisory Services, LLP

Mr. Frank Harjo
Muscogee (Creek) Nation

Mr. Xavier Irias
East Bay Municipal Utility District

Ms. Roberta Lenczowski*
Roberta E. Lenczowski Consulting, LLC

Mr. Roger Mitchell
MDA Information Systems, Inc.

Ms. Rebecca Moore
Google, Inc.

Mr. Kevin Pomfret*
Centre for Spatial Law and Policy

Dr. Laxmi Ramasubramanian
Hunter College, City University of NY

Major General William N. Reddel III*
New Hampshire National Guard

Dr. Carl Reed
Carl Reed and Associates, LLC

Ms. Amber Reynolds
City of Topeka, KS

Dr. Douglas Richardson
Association of American Geographers

Mr. Cy Smith*
State of Oregon

Ms. Rebecca Somers*
Somers-St. Claire GIS Consultants

Ms. Jennie Stapp*
State of Montana

Dr. Harvey Thorleifson*
Minnesota Geological Survey

Mr. Jason Warzinik*
Boone County, MO

Dr. May Yuan
University of Texas – Dallas

*Appointed/Reappointed February 2017
Leadership Dialogue

Federal Geospatial Highlights
  - NGDA Portfolio Management
  - Geospatial Platform

Perspectives – Key Issues Facing the Geospatial Community

Spotlight on Geospatial Programs
  - National Address Database
  - USGS National Geospatial Program
  - Parcel Data

NGAC Subcommittee Reports
  - Standards Coordination Subcommittee
  - Landsat Advisory Group

Lightning Sessions
Leadership dialogue with Kerry Rae (DOI).

Update on Federal Geospatial Activities:

- Transition activities
- NSDI Strategic Framework
- National Geospatial Data Asset (NGDA) Portfolio management
- Geospatial Platform
Spotlight on Geospatial Programs

National Address Database:
- Update from Steve Lewis (DOT) & Tim Trainor (Census)
- NGAC has provided extensive input on development of the NAD and looks forward to continued progress.

National Geospatial Program:
- Update from Mike Tischler (USGS) on 3DEP, Hydrography, Alaska mapping, etc.
- USGS will ask for NGAC feedback on 3DEP Multi-year plan at June 2017 NGAC meeting.

HIFLD/Parcel Data:
- Update from Mike Donnelly (DHS) and Mike Piscotti (NGA).
- Parcel data available through HIFLD Secure later this year – NGAC organizations encouraged to utilize as appropriate.
NGAC adopted paper on “Geospatial Standards: A National Asset” in principle, pending minor edits

Paper addressed task from 2016 FGDC guidance:
“The FGDC requests NGAC advice on greater adoption and utilization of standards resulting in enhanced interoperability of geospatial data, services, and systems. The FGDC will also request recommendations on collaboration with voluntary standards organizations to enhance the implementation and uptake of endorsed standards.”

Subcommittee Membership: Carl Reed (chair), Gen. William Reddel (vice-chair), Talbot Brooks, Xavier Irias, Harvey Thorleifson, and Frank Harjo.
Standards Paper – Recommendations

1. Discovery - Create a national inventory of key geospatial standards

FGDC should coordinate the development and maintenance of a publicly accessible inventory (registry) of relevant geospatial standards. The initial contribution to this inventory could be those international or national standards already vetted and endorsed by the FGDC and the GWG.

2. Role of the FGDC

The FGDC should continue to collaborate with voluntary consensus standards organizations to provide requirements and to facilitate the development of standards.

3. Outreach & Education

FGDC, in collaboration with its partners, can provide leadership to:
- Communicate the benefits of standards
- Provide use cases and exemplars
- Determine which standards to use
- Co-sponsor seminars and workshops for partner organizations
- Consider which standards should (or can) be specified in legislation
Landsat Advisory Group

LAG Study Tasks:

- **Task #1 – Revisit Smallsat Investigation**
  - USGS asking LAG to formulate a comprehensive narrative on the pros and cons of existing smallsat technology juxtaposed with Landsats 8 and 9.
    - Task Lead: Kass Green
    - Status: Draft report in June 2017

- **Task #2 – Temporal Data Cube Study**
  - Study the feasibility and utility of implementing temporal data cubes to support projection or ‘forecast’ models of land change trends
    - Task Lead: Bobbi Lenczowski
    - Status: Draft report in June 2017
NGAC Dialogue – Ideas for Study Topics

Geospatial technology and infrastructure

- Recognize that geospatial infrastructure is part of the nation’s critical infrastructure
- Demonstrate how geospatial technology and information is needed to address critical infrastructure issues

Workforce & Education

- Scope of geospatial industry has grown dramatically; growing demand and opportunities
- How to train next generation of geospatial professionals

Address the geospatial community’s needs for Data as Services

- Think 3-5 years out
- Push and pull analysis

Cultural and historical geospatial assets held by Federal agencies

- Strategies for effective management of protected data with geospatial component
- Assess need & approaches to develop standard/consistent processes
Lightning Talks

- U.S. Geological Mapping Strategic Plan – Harvey Thorleifson
- RFID and GNSS for Underground Asset Management – Xavier Irias
- Beyond Open Data – Pat Cummens
- Preparing Students for the Workforce – Talbot Brooks
- National Assessment of GIS&T – Doug Richardson
- Exchange Network Conference – Frank Harjo
- State of Geoint Report – Keith Masback
- NAPSG Foundation Standards Overview – Gen. William Reddel/Rebecca Harned
- DOD Shared Situational Awareness Memorandum – Gen. William Reddel
Next Steps

- Form short-term working groups to address key issues
- Plan for imagery/Landsat session at June meeting
- Form subcommittees to address FGDC guidance (June meeting).

Next NGAC meetings:

- June 13-14 (Department of Interior)
- Sept 6-7 (NCTC – Shepherdstown)
- December webinar meeting (date TBD)
Coordination Group Meeting Dates

2017 FGDC CG Meeting Calendar

Date change noted in blue

- May 2, 2017 - DOI Rachel Carson Room – Date change
- June 6, 2017 - DOI Rachel Carson Room
- July 11, 2017 - DOI Rachel Carson Room
- August 29, 2017 - DOI Kiowa Room
- September - No CG meeting
- October 3, 2017 - DOI Rachel Carson Room
- November 14, 2017 DOI Rachel Carson Room
- December 12, 2017 DOI Rachel Carson Room
FGDC Business Update

- 2014 GAO Engagement
- NGDA Portfolio Management
- NSDI Strategic Planning
- 2017 Doug D. Nebert NSDI Champion of the Year Award Nominations
- 2017 Nebert Award Request for Participation on Review Panel
- Recent FGDC Engagement Events
- FGDC API Concept Development Study
- FGDC Standards Update
GAO Recommendations Update

GAO continues to monitor and close recommendations from their Geospatial Data (GAO-15-193) and Geospatial Information (GAO-13-94) reports.

Recently Closed

- DOI – Correct the search function of the Geospatial Platform so it effectively identifies applicable datasets
- DOC – implement departmental strategies for advancing geographic information and geospatial data activities appropriate to their missions

Pending Closure

- FGDC/DOT/DOC – Create an address data theme with associated subcommittees to assist in furthering a national address database – should close upon posting of FGDC approved theme description (in process)
- DOI/USGS – Develop and implement a plan for nationwide population of Inland Waters (hydrography) NGDA Data Theme – closure package in process
NGDA Portfolio Management - Current Activities

-Restarting web services and metadata project
  - Federal and non-Federal metadata publishers are required to have an OMB MAX account – see instructions [https://cms.geoplatform.gov/resources](https://cms.geoplatform.gov/resources)
  - Coordinate with NGDA Dataset Managers and Theme Leads to work towards an end of April completion for updating metadata records with web services and download links and publishing to Data.gov/Geoplatform.gov

-Theme Implementation Plans Status
  - Updated template available [https://cms.geoplatform.gov/A-16-NGDA-Theme-Community](https://cms.geoplatform.gov/A-16-NGDA-Theme-Community)
  - Framework Themes due in February and all Themes are required to report by 4/28/17 (for Oct. 2016-Mar. 2017 reporting period)
NGDA Portfolio Management - Current Activities

- 2015 NGDA Portfolio Summary Report
  - Aggregates information across all Themes
  - Initial draft completed in 2016
  - Looking at additional information from “2015 Lifecycle Maturity Assessment Analysis and Recommendation Report”, Theme Strategic Plans and Implementation Plans
  - Distribute for review to Theme Leads and CG members
- 2017 draft template will include more details and draft will be distributed in summer as new LMA is underway
NGDA Portfolio Management - Current Activities

- 2017 Lifecycle Maturity Assessment
  - Anticipate online LMA release in May 2017 with all NGDA assessments complete by Dataset Managers by August 2017

- Assessment Question Development Status
  - Completed Administrative and General Questions
  - Finishing Stage 1 Define/Plan (e.g., business requirements process, stakeholder engagement, quality assurance process, etc.)
  - Finishing Stage 2 Inventory/Evaluate (e.g., list of data assets and data gaps - both internal and external)
  - Working on Stage 3 Obtain (e.g., collection, purchase, conversion, transformation, sharing, exchange, or creation of geospatial data)
  - Beginning on Stage 4 Access (e.g., making data produced known and retrievable by the community)
  - Beginning Stage 5 Maintain (e.g., ongoing processes and procedures to ensure the data meet business requirements)
  - Stage 6 and Stage 7
NSDI Strategic Planning

2014-2016 NSDI Strategic Plan

2016-2017 NSDI Strategic Framework

Transitional Plan

2017-20XX NSDI Strategic Plan

Next Full Strategic Plan (to be completed in 2017)
NSDI Strategic Framework – Current Status

- Strategic Framework endorsed by NGAC – December 14 NGAC meeting
- Strategic Framework approved by Steering Committee via electronic vote – December 2016

<table>
<thead>
<tr>
<th>U.S. Geospatial Economic Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>$73 billion</strong></td>
</tr>
<tr>
<td>The U.S. geospatial services industry is a $73 billion business. ²</td>
</tr>
<tr>
<td><strong>$1.6 trillion</strong></td>
</tr>
<tr>
<td>Geospatial services companies drive $1.6 trillion in revenue and $1.4 trillion in cost savings throughout the U.S. economy. ²</td>
</tr>
<tr>
<td><strong>500,000 jobs</strong></td>
</tr>
<tr>
<td>The U.S. geospatial industry employs at least 500,000 people in ‘high wage’ geo-related jobs. ²</td>
</tr>
<tr>
<td><strong>$690 million</strong></td>
</tr>
<tr>
<td>Economic benefit of geospatial data in the U.S. is conservatively estimated at $690 million per year. ³</td>
</tr>
<tr>
<td><strong>65%</strong></td>
</tr>
<tr>
<td>The majority of records in the nation’s open data catalog are geospatial. ¹</td>
</tr>
<tr>
<td><strong>10%</strong></td>
</tr>
<tr>
<td>Economic impact of geospatial services in market, logistic, and strategic decision-making will grow by at least 10% over the next five years. ³</td>
</tr>
</tbody>
</table>

1 USGS, 2012
2 Boston Consulting Group, 2012
3 Data.gov, 2016
Interim Implementation Approach

2017 FGDC Strategic Activities:
• Develop high-level work plan identifying priorities and deliverables for 2017 – building on the goals and strategies identified in the NSDI Strategic Framework.

NSDI Strategic Plan:
• Engage with Administration in 2017 to refine the framework and develop final version of NSDI Strategic Plan.
• Concurrently develop more detailed implementation strategy for new NSDI Strategic Plan.
Interim Implementation Approach

2017 FGDC Priorities – draft components:

• Geospatial Platform
• Management of National Geospatial Data Assets
• NSDI Strategic Planning
• Key Geospatial Data Initiatives
• Leadership and Coordination
• Standards and Metadata
• Communication and Outreach
2017 Doug D. Nebert NSDI Champion of the Year Award Nominations

- FGDC is now accepting nominations for the Doug D. Nebert National Spatial Data Infrastructure (NSDI) Champion of the Year Award.
  - Details and nomination process are posted on the FGDC Web site at https://www.fgdc.gov/nebertaward
- Will recognize individual or team representing Federal, State, Tribal, regional, and (or) local governments, academia, or nonprofit and professional organizations that has developed an outstanding, innovative and operational tool, application, or service capability used by multiple organizations
- Nominations will be accepted until May 5, 2017
- Questions: Contact Lucia Foulkes (lfoulkes@usgs.gov)
2017 Nebert Award Request for Participation on Review Panel

- FGDC is seeking five volunteers to serve on the nomination review panel for the Doug D. Nebert NSDI Champion of the Year Award. The award announcement is posted and nominations will be accepted until May 5, 2017.
  - The review panel will have about 3 to 4 weeks to review the submissions. An online review form is set up to help simplify the process.
  - There will be a single meeting to review the results and come to a consensus on the recommended award recipient.
  - The FGDC Chair will make the final selection and the award recipient will be announced at the FGDC Steering Committee meeting in June.
  - The award consists of a citation and plaque, which will be presented to the recipient by the FGDC Chair. It is not a monetary award. Award recipient will be featured in the FGDC Annual Report.
Recent FGDC Engagement Events

- Esri Federal GIS Conference
  - FGDC session on National Geospatial Data Assets (NGDAs), Portfolio Management, Geospatial Platform

- National State Geographic Information Council (NSGIC) Mid-year meeting

- Coalition of Geospatial Organizations (COGO)
  - Working with FGDC to align the COGO NSDI report card with the NGDA Lifecycle Management Assessments

- MAPPS Winter Conference (association of photogrammetric, mapping, and geospatial firms)
  - Provided an update on national parcels actions

- Artic Spatial Data (SDI)Pilot Demonstration
  - OGC, USGS, Natural Resources Canada – demonstrate the value of standardized spatial data infrastructures in the Artic
Upcoming FGDC Engagement Events

  - Improve geospatial data and services discovery and use for federal and non-federal NSDI stakeholders and users
FGDC API Concept Development Study

**Background:** FGDC is sponsoring an API Concept Development Study through OGC to support long-term planning. The explosive growth, anticipated need and accelerated expansion of API’s in the geospatial community offers new opportunities and challenges.

**Purpose:** The study will be to determine how API providers and data consumers can improve APIs in order to:

- Examine how APIs are used effectively to exchange geospatial information
- Identify where the proliferation of API diversity has impacted interoperability
- Support planning for increased use of protocols to enhance interoperability
- Suggest consensus activities that would improve the geospatial API ecosystem

**Outcome:** The study will provide an in-depth understanding of all the components necessary to enable increased coordination and effectiveness of APIs as applied to geospatial information.
FGDC API Concept Development Study

Schedule

• Request for Information: March 7 - March 31, 2017
• Analysis of responses: April 1 - May 10, 2017
• API Plugfest: May 15, 2017 By Invitation Only
• API Workshop: May 16, 2017
• Publish report: June 2017
Geospatial Standards

CG action items

- Submit standards or standards-related documents for consideration at a future FGDC Standards WG meeting to Julie Maitra
  - Which standards does your agency maintain?
  - How long ago was the standard endorsed? If 5 years or longer, should the standard be updated/revised, re-affirmed, or withdrawn?
GWG activities

• The 17-1 Geospatial-Intelligence Standards WG (GWG) voting meeting was held on February 22.

• There was discussion about interfaces between the Defense and Intelligences communities on one hand and FGDC on the other.

• The FGDC Secretariat has invited Jeff Bell, Chair, GWG, to discuss these interfaces at an upcoming CG meeting.
<table>
<thead>
<tr>
<th>Year</th>
<th>Month</th>
<th>Date range</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>April</td>
<td>Tue 04/11</td>
<td>CG</td>
<td>Washington, DC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wed 04/12</td>
<td>FGDC ISO Metadata Implementation Forum</td>
<td></td>
</tr>
<tr>
<td></td>
<td>May</td>
<td>Tue 05/09</td>
<td>CG</td>
<td>Washington, DC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fri 05/12</td>
<td>L1/U.S. TAG</td>
<td>Reston, VA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tue 05/23</td>
<td>ISO Metadata Tools session</td>
<td>Reston, VA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wed 05/24</td>
<td>ISO Metadata Summit</td>
<td>Reston, VA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mon 05/29-Fri 06/02</td>
<td>ISO TC 211 Plenary and meetings</td>
<td>Stockholm, Sweden</td>
</tr>
<tr>
<td></td>
<td>June</td>
<td>Tue 06/06</td>
<td>CG</td>
<td>Washington, DC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mon 06/26-Fri 06/30</td>
<td>OGC</td>
<td>St. John's, Newfoundland, Canada</td>
</tr>
<tr>
<td></td>
<td>July</td>
<td>Sat 07/01-Sun 07/02</td>
<td>ICC pre-conference workshop on SDIs, standards, open</td>
<td>Washington, DC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sun 07/02-Fri 07/07</td>
<td>International Cartographic Conference (ICC 2017)</td>
<td>Washington, DC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tue 07/11</td>
<td>CG</td>
<td>Washington, DC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sun 07/23-Fri 07/28</td>
<td>IEEE International Geoscience and Remote Sensing Symposium (IGARSS)</td>
<td>Fort Worth, TX</td>
</tr>
<tr>
<td></td>
<td>August</td>
<td>Tue 08/29</td>
<td>CG</td>
<td>Washington, DC</td>
</tr>
<tr>
<td></td>
<td>September</td>
<td>Mon 09/04-Tue 09/05</td>
<td>INSPIRE Conference 2017</td>
<td>Kehl, Germany</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wed 09/06-Fri 09/08</td>
<td>INSPIRE Conference 2017</td>
<td>Strasbourg, France</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mon 09/25-Fri 09/29</td>
<td>NSGIC 2017 Annual Conference</td>
<td>Providence, RI</td>
</tr>
</tbody>
</table>
Questions???