Federal Geographic Data Committee (FGDC)
Overview

FGDC Steering Committee
Orientation Meeting
July 19, 2018

Topics

❖ **FGDC History/Authorities**

❖ **Organization**

- Steering Committee (including role/expectations of SAOGIs)
- Executive Committee
- National Geospatial Advisory Committee
- Coordination Group
- Subcommittees/Working Groups
- FGDC Secretariat

❖ **Core FGDC Responsibilities**

- National Spatial Data Infrastructure (including NSDI strategic planning)
- GeoPlatform
- National Geospatial Data Assets
- Standards/ Metadata

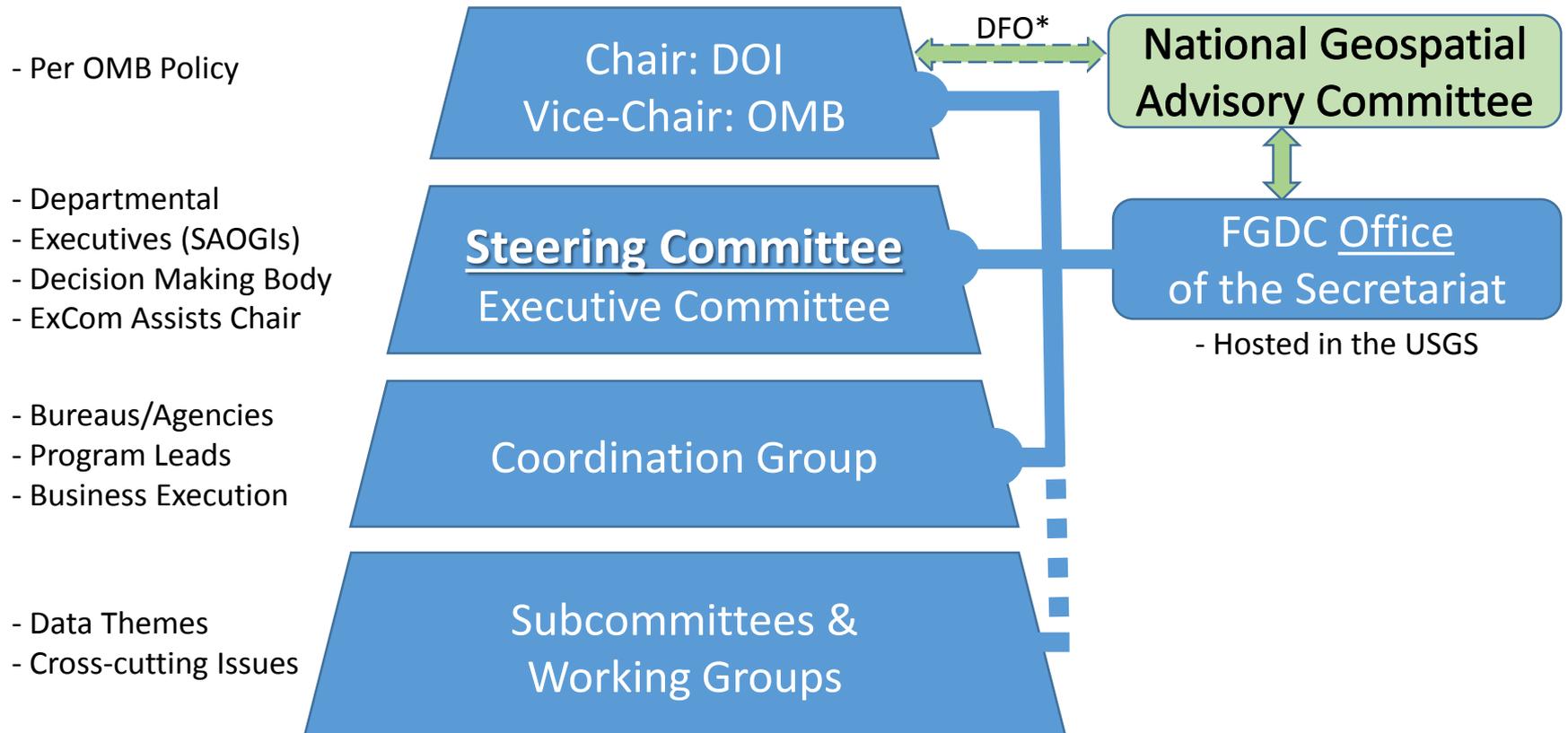❖ **Overview of July 26 FGDC Steering Committee**

FGDC History/Authorities

❖ **OMB Circular A-16** (originally issued in 1953, most recent version issued in 2002)

- A-16 is the primary policy document for geospatial coordination in United States
- Describes responsibilities of Federal agencies with regard to the coordination of geospatial and mapping activities
- Describes the elements of the National Spatial Data Infrastructure (NSDI)
- A-16 is the foundation for the Federal Geographic Data Committee (created in 1990)

❖ **Circular A-16 Supplemental Guidance** (issued in 2010)

- Supplemental Guidance outlines portfolio management process for National Geospatial Data Assets (NGDAs)

❖ **E-Government Act 2002, Section 216**

- Called for DOI, through the FGDC, to develop common protocols for geographic information.

Coordination of Geographic Information and Related Spatial Data Activities

Office of Management and Budget • Circular A-16 revised
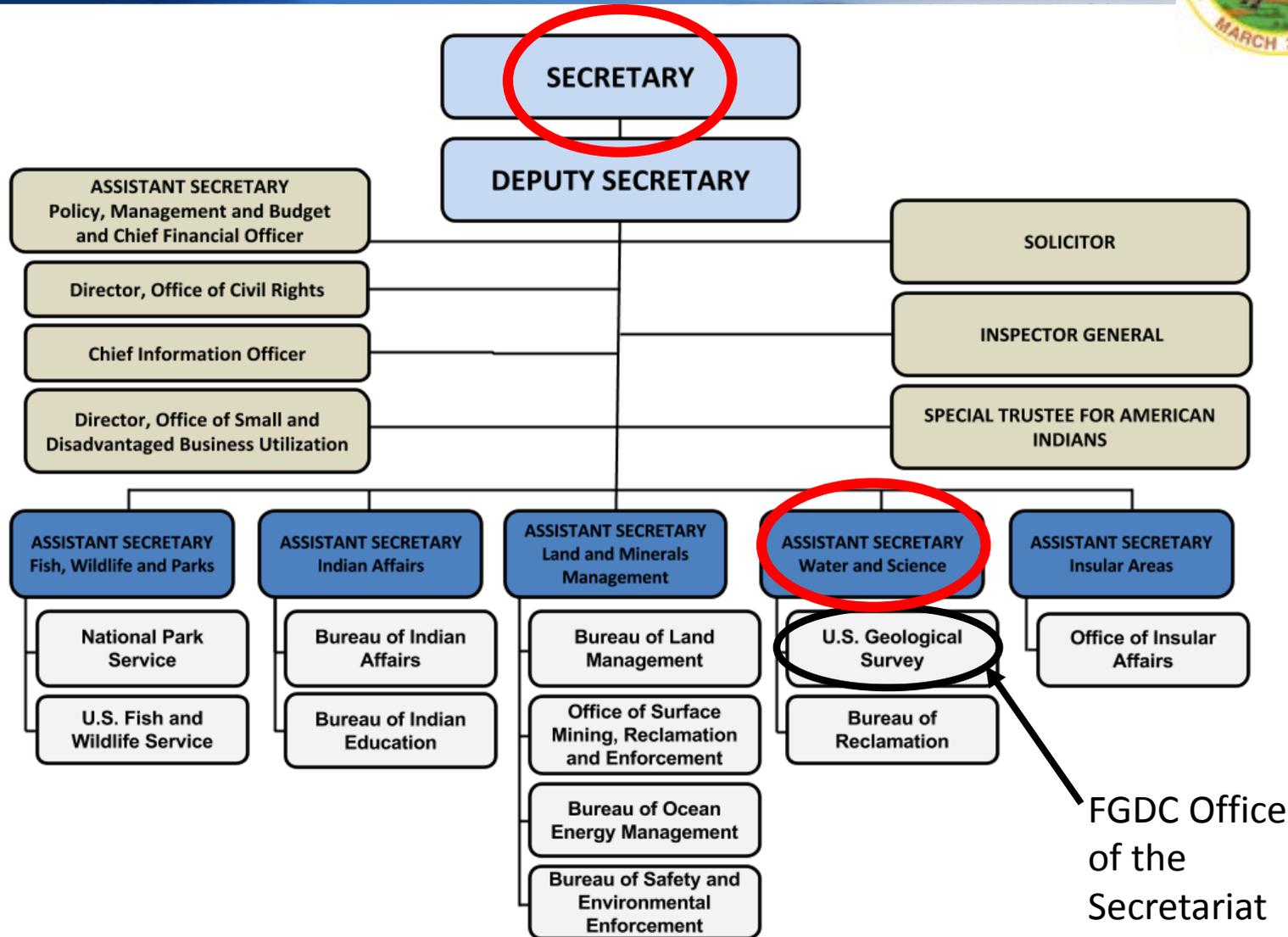
The National Spatial Data Infrastructure
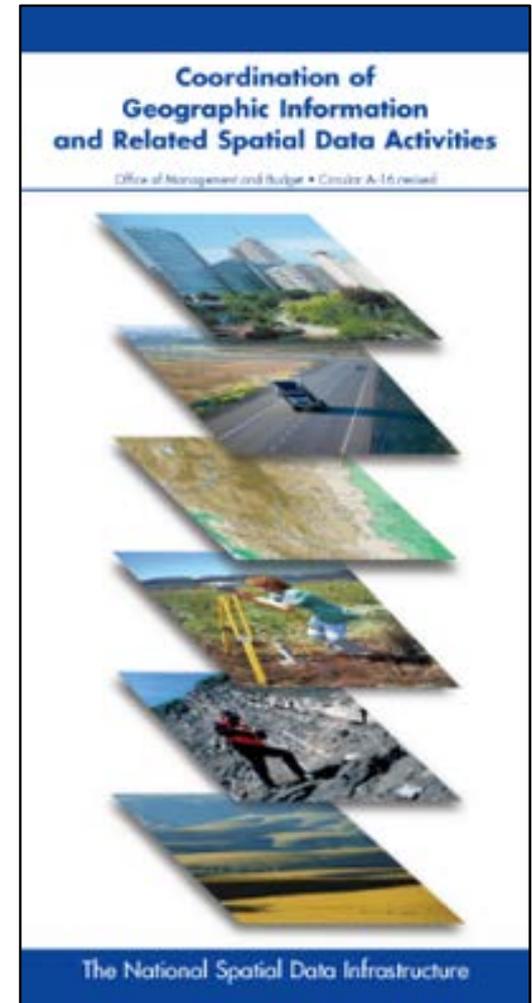
What are FGDC's Responsibilities?

❖ **Coordinating** the efficient, transparent, accountable, and effective use of geospatial information in meeting national requirements.

❖ **Collaborating** across agencies, and partnering with state and local governments, academia, and the private sector to collaboratively develop and share geospatial data and information and leverage resources.

❖ **Developing** joint capabilities through the GeoPlatform to provide access to shared data, tools, applications and communities to support efficient problem solving and enhance decision-making.

FGDC Structure

- Per OMB Policy

- Departmental
- Executives (SAOGIs)
- Decision Making Body
- ExCom Assists Chair

- Bureaus/Agencies
- Program Leads
- Business Execution

- Data Themes
- Cross-cutting Issues

**Chair: DOI
Vice-Chair: OMB**

Steering Committee
Executive Committee

Coordination Group

Subcommittees &
Working Groups

DFO*

**National Geospatial
Advisory Committee**

FGDC Office
of the Secretariat

- Hosted in the USGS

*Reports through the Designated Federal Officer (DFO),
Executive Director of the FGDC OS

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U.S. Department of the Interior - Chair

FGDC Leadership

Steering Committee
Executive Committee

Chair: Timothy R. Petty, Ph.D.
    DOI, Assistant Secretary for Water & Science
Alternate: Andrea Travnicek, Ph.D.
    DOI, Deputy Assistant Secretary for W&S
Vice-Chair: Jamie Huang, Performance Analyst
    OMB, Office of the Federal CIO

Coordination Group

Chair: Ivan B. DeLoatch, Executive Director
    FGDC Office of the Secretariat
Co-Chair: Optional (vacant)
    Appointed from CG membership

Subcommittees &
Working Groups

Each one Chaired or Co-Chaired by FGDC member agency representatives

National Geospatial Advisory Committee

Chair: Julie Sweetkind-Singer
    Stanford University
Vice-Chair: Keith Masback
    US Geospatial Intelligence Foundation
Designated Federal Official: Ivan B. DeLoatch
    Executive Director, FGDC OS

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FGDC Business Flows

NGAC — - Recommendations to DFO

Leadership and Execution

- Executive and political leadership
- Provides high-level coordination
- Provides topics to NGAC

- Identifies/leads collaborative efforts
- Directs actions for CG
- Exec. Champions for initiatives
- Establishes and leads core teams

- Executes FGDC actions
- Develops policies and practices
- Coordinates across agencies
- Utilizes Subcom/WGs expertise

- Recommends actions to CG
- Creates artifacts/documents
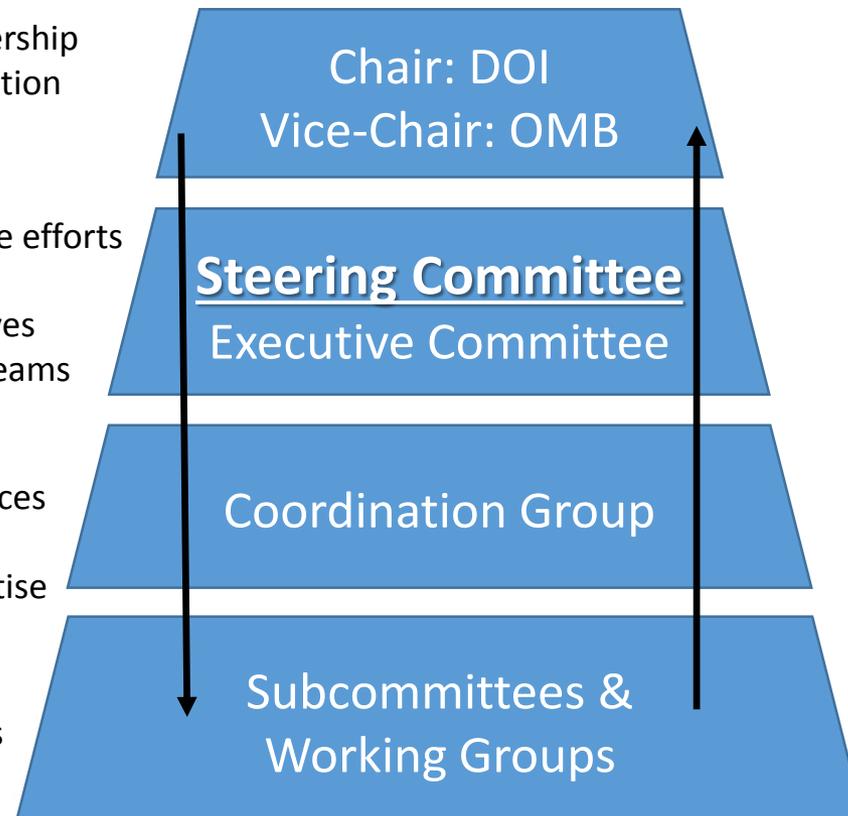
Policy and Decisions

- Identifies national priorities
- NGAC recommendations to SC
- Recommendations from OMB

- Decision making body
- Votes on FGDC approval of policies, standards, initiatives, collaborative investments
- Develops/vets artifacts

- Votes on recommendations for SC approval
- Develops/vets FGDC artifacts

- Recommends actions to CG
- Creates artifacts/documents

Pyramid (top to bottom):

**Chair: DOI
Vice-Chair: OMB**

Steering Committee
Executive Committee

Coordination Group

**Subcommittees &
Working Groups**

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FGDC Member Agencies

Federal Communications Commission*	U.S. Department of Commerce
General Services Administration	U.S. Department of Defense
Library of Congress	U.S. Department of Education
National Aeronautics and Space Administration	U.S. Department of Energy
National Archives and Records Administration	U.S. Department of Health and Human Services
National Capital Planning Commission*	U.S. Department of Homeland Security
National Science Foundation	U.S. Department of Housing and Urban Development
Office of Management and Budget	U.S. Department of the Interior
Office of Personnel Management	U.S. Department of Justice
Small Business Administration	U.S. Department of Labor
Smithsonian Institution	U.S. Department of State
Social Security Administration	U.S. Department of Transportation
Tennessee Valley Authority	U.S. Department of the Treasury
U.S. Agency for International Development	U.S. Department of Veterans Affairs
U.S. Army Corps of Engineers*	U.S. Environmental Protection Agency
U.S. Department of Agriculture	U.S. Nuclear Regulatory Commission

*Non-voting members

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FGDC Steering Committee

Membership:

- Senior Agency Officials for Geospatial Information (SAOGIs)

Functions

- Policy-level interagency group responsible for overseeing OMB Circular A-16 related activities and implementation of the NSDI.

- Provide the executive leadership for the coordination of federal geospatial activities between, among, and within agencies by establishing policy and providing guidance and direction to the member agencies.

- The FGDC shall also seek to involve state, local and tribal governments, academia, the private sector, professional societies, and others to aid in the development and implementation of the NSDI.

- Coordination of geospatial investments and activities to eliminate duplication of effort and data, avoid redundant expenditures, reduce resources spent on unfunded mandates, leverage geospatial investments, accelerate the development of electronic government to meet the needs and expectations of citizens and agency programmatic mandates, and improve the efficiency and effectiveness of public management.

Responsibilities of Steering Committee Members

- Overseeing coordination of agency acquisition, management, development, maintenance, documentation, and dissemination of geospatial data

- Overseeing coordination of geospatial investment management

- Attending FGDC Steering Committee meetings (or sending a designated alternate)

- Voting on the adoption of FGDC standards and policies

- Promoting agency compliance with FGDC policies, standards and requirements

- Promoting the allocation of agency resources to fulfill responsibilities of effective spatial data collection, production, and stewardship

- Ensuring the communication of key national geospatial activities

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Responsibilities of Steering Committee Members, cont'd

- <u>Appointing an agency representative and alternate to serve on FGDC Coordination Group</u>

- Appointing representatives to lead or serve on FGDC subcommittees/working groups

- Promoting coordination and partnerships in the development of the NSDI

- Serving as a champion for the use, value, and benefits of geospatial information

- Partnering with the agency CIO to ensure geospatial information investments benefit agency-wide business processes

- Identifying or acting as an Executive NGDA Theme Champion

- Facilitating coordination across the department's and agency's FGDC representation (SteerCom, CG, Theme Leads, etc.)

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FGDC Coordination Group (CG)

❖ <u>Role</u>: Responsible for identification, prioritization, implementation, coordination, and oversight of strategies and tasks required to support the NSDI and coordinate related Federal geospatial programs.

❖ <u>Membership</u>: Agency program leads/managers

❖ Supports the agency's SAOGI

❖ Coordinates internally across their organization

❖ SAOGIs can assign one CG member per second organizational tier (Bureau, agency, e.g. NOAA for DOC)

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FGDC Subcommittees and Working Groups

FGDC Subcommittees

- <u>Role</u>: Leadership of NGDA data themes
- <u>Membership</u>: Theme leads, dataset managers, and associated staff & stakeholders

FGDC Working Groups

- <u>Role</u>: Coordination of cross-cutting geospatial issues
- <u>Membership</u>: Program leads/subject matter experts

National Geospatial Advisory Committee

❖ Federal Advisory Committee, sponsored by DOI, providing advice & recommendations on national geospatial policy issues to FGDC.

❖ 28 experts from tribes, all levels of government, private sector, academia, and non-profits.

❖ A primary means to collaborate with FGDC's wide network of partners & stakeholders.
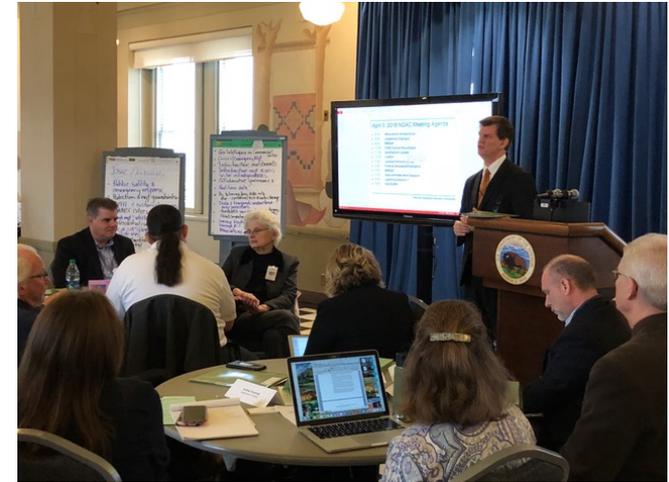
Current Focus Areas

❖ Infrastructure – Using geospatial tools to map, understand needs, plan, execute, monitor, report and communicate results

❖ Landsat – Possible architectures for future missions; options for fee recovery

❖ Cultural Resources – Best practices for managing geospatial data related to sensitive cultural and historical resources

❖ Data Initiatives – Ongoing feedback on Addresses, Elevation (3DEP), Water, etc.

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FGDC Office of the Secretariat Staff

- **Ivan DeLoatch** – Executive Director

- **Ken Shaffer** – Deputy Executive Director

- **John Mahoney** – Senior Policy Advisor

- **Rich Frazier** – Senior Advisor for Geospatial Technology

- **Lucia Foulkes** – Interagency Coordinator

- **Lorna Schmid** – Arctic SDI Point of Contact and NGDA Portfolio Manager

- **Roxanne Lamb** – Program Analyst

- **Sarah Davis** – Program and Financial Analyst

- **Jonel Pineda** – Administrative Operations Assistant

- **Glen Guempel** – ISO and OGC Standards Coordination (part time)

- **Vaishal Sheth** (contr) – Website and Project Support Services

- **Vacant** – National Geospatial Data Asset (NGDA) Coordinator

- **Vacant** – Standards Coordinator

- **Vacant** – Metadata Coordinator

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Core FGDC Responsibilities

NSDI Strategic Plan – setting the stage for the future

❖ **FGDC A-16 Responsibility**: "*Prepare and maintain a strategic plan for the development and implementation of the NSDI*"

❖ **Current Plan**: 2017 NSDI Strategic Framework (transitional plan)

❖ **2019 NSDI Strategic Plan** – currently under development

- Led by interagency Core Team

- Input from NGAC and partners/stakeholders

- Alignment with President's Management Agenda / Federal Data Strategy

Key Elements

❖ **Shared Services** (GeoPlatform)

❖ **Data, Accountability & Transparency** (NGDAs, Priority Data Themes)

❖ **Policy and Management** (Alignment with Federal Data Strategy)

❖ **Collaborative NSDI Partnerships** (Geo community collaboration opportunities)
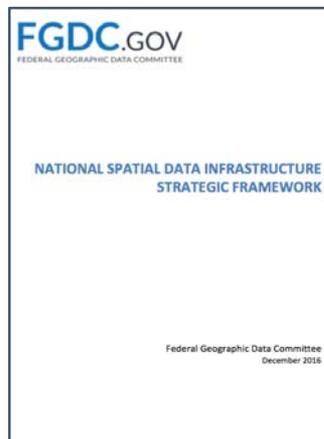
2017 NSDI Framework
Transitional Plan

2019 NSDI Strategic Plan
Next Full Strategic Plan

Key Driver – President's Management Agenda

- Issued by OMB on March 20

- Describes long-term vision focusing on Mission, Service, and Stewardship.

- Includes 3 Key Drivers of Transformation:
    1. **IT Modernization**
    2. **Data, Accountability and Transparency**
    3. **People - Workforce for the 21st Century**

- Includes Cross-Agency Priority (CAP) Goals

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Key Driver – President's Management Agenda

Driver #2: Data, Accountability and Transparency

Federal Data Strategy – 4 Components:

- **Strategy 1**: Enterprise Data Governance
  - *Identifies FGDC Portfolio Management as model approach for enterprise data governance*

- **Strategy 2**: Access, Use, and Augmentation

- **Strategy 3**: Decision-Making & Accountability

- **Strategy 4**: Commercialization, Innovation, and Public Use

CAP Goal: Leveraging Data as a Strategic Asset
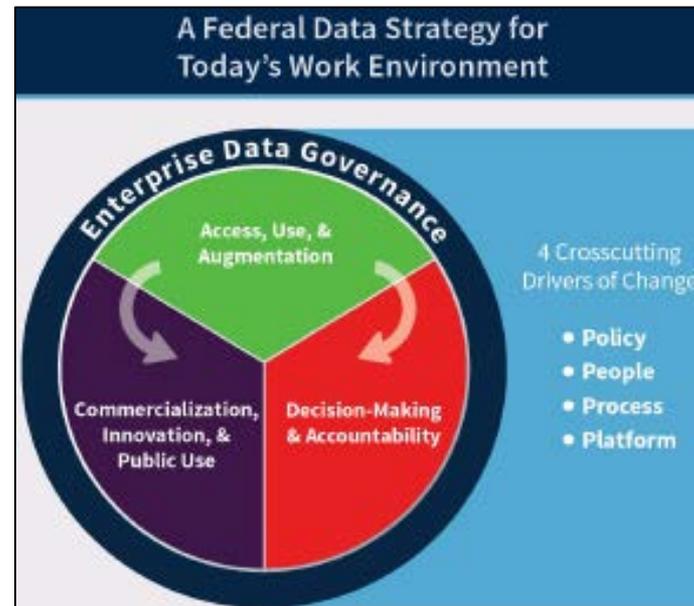
"Platform: Develop effective governance organizations and a suite of tools and applications available across agencies that serve the needs of diverse users and facilitate data integration, exchange, and use."
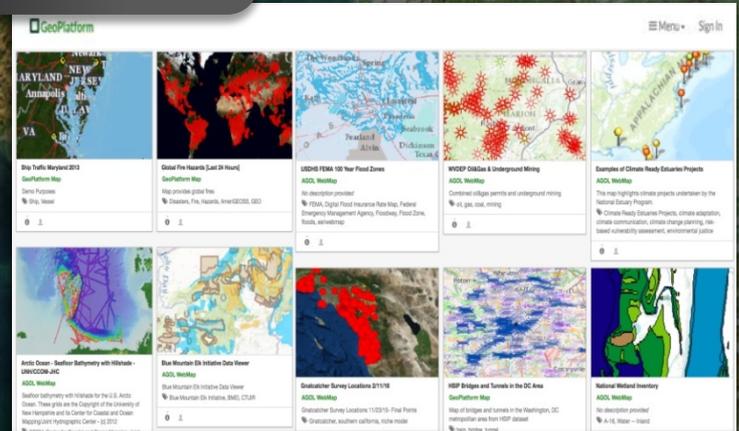
Geospatial Platform (www.geoplatform.gov)

Key Differentiators

- A **unified national portfolio solution** for integrating and exploiting the nation's ecosystem of diverse geospatial resources
  - Across federal, state, local, tribal and non-government organizations
  - Embraces **all** technology platforms; knowledge, tools, and expertise can be shared with many other stakeholders
  - OPEN – open standards taking open data to the next level
  - Transparent, documented and reliable data

- A robust, consistent way of managing geospatial assets, and assessing performance and reliability across the nation's geospatial ecosystem

- Shared online collaboration environment to visually integrate local-to-national data for consistent situational understanding

- Reducing costs and improving performance

National Geospatial Data Asset (NGDA) Data Themes

- Address
- Biodiversity & Ecosystems
- Cadastre
- Climate & Weather
- Cultural Resources
- Elevation
- Geodetic Control
- Geology
- Government Units
- Imagery
- Land Use & Land Cover
- Real Property
- Soils
- Transportation
- Utilities
- Water-Inland
- Water – Oceans & Coasts

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A-16 Supplemental Implementation

Life-Cycle Reporting

34 Data Themes

17 Data Themes

Life-Cycle Assessments

A-16 NGDA Portfolio

NGDA Theme

NGDA Theme

NGDA Datasets

NGDA Datasets

Portfolio Management

Assessment Dashboard

Services Delivery & Monitoring

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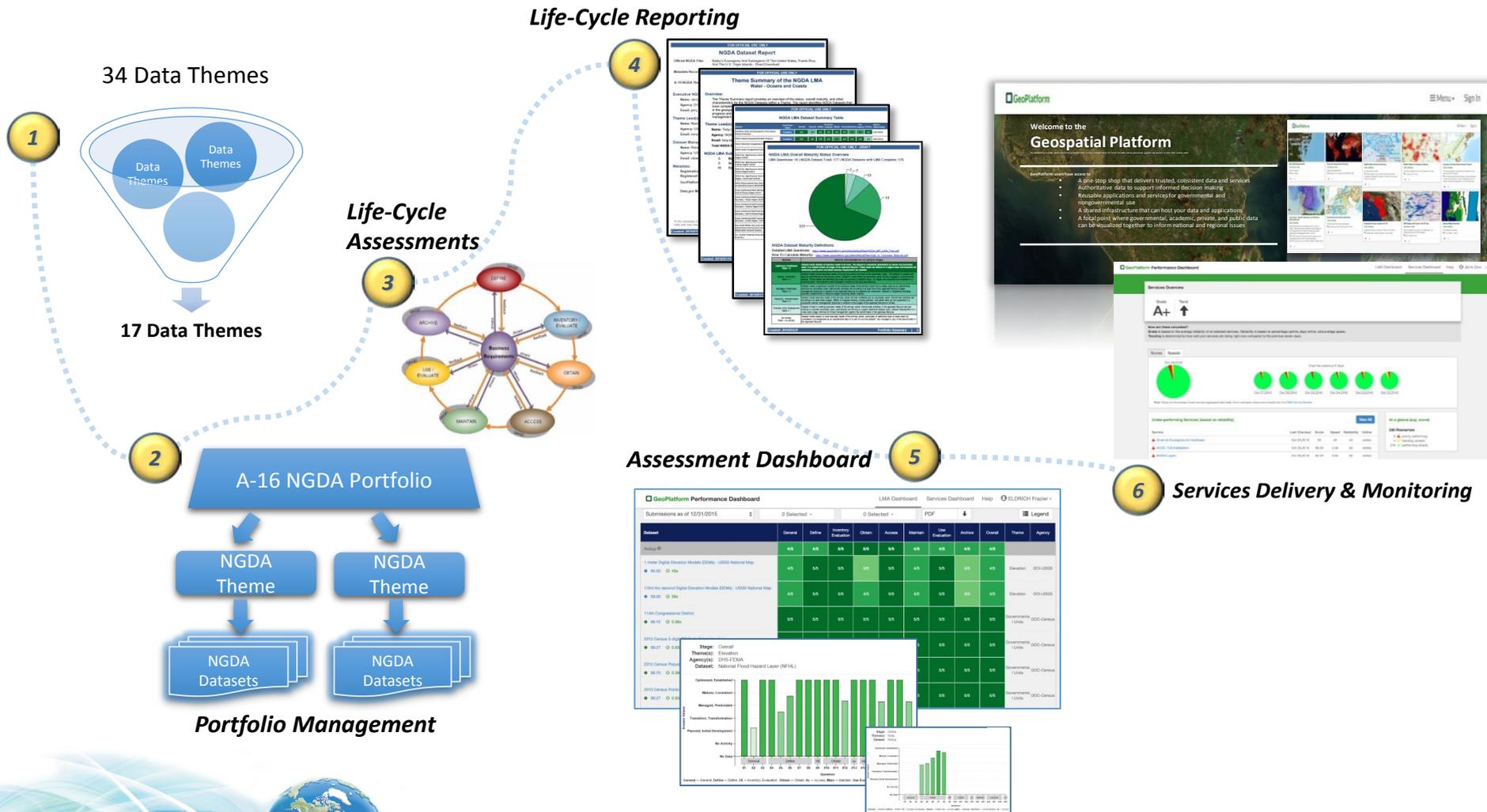
Key Data Initiatives

Initiatives	Lead Agencies	High-Level Status
3D Elevation	USGS, NOAA	Robust business plan, extensive partner support, multi-year funding strategy.
National Address Database	Census, DOT	"Addresses" adopted as new data theme by FGDC. Strong involvement by State/local/tribal partners.
Imagery	USDA, USGS	Potential enterprise acquisition being developed by GSA/NGA. National Agricultural Imagery Program future path.
HIFLD – Homeland Infrastructure Foundation Level Data	DHS	Data links and services for HIFLD Open data continue to be added to the GeoPlatform.

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Standards & Interoperability

Standards facilitate development, sharing, and use of geospatial data and services

Proposal

1 Develop Proposal → **2** Review Proposal

Standards Working Group

Project

3 Setup Project

Subcommittee/Working Group

Draft

4 Produce Working Draft → **5** Review Working Draft

Standards Development Group | **Subcommittee/Working Group**

Review

6 Review & Evaluate Committee Draft → **7** Approve Standard for Public Review → **8** Coordinate Public Review → **9** Respond to Public Review → **10** Evaluate Responsiveness to Public Comments → **11** Approve Standard for Endorsement

Standards Working Group | **Coordination Group** | **FGDC Secretariat** | **Standards Development Group** | **Standards Working Group** | **Coordination Group**

Final

Approve Standard for Endorsement

FGDC Steering Committee

July 26 Steering Committee Meeting

Department of the Interior, South Penthouse Conference Room

Thursday, July 26, 10:00am – 12:30pm EDT

<u>Draft Agenda Topics</u>:

- Welcome & Introductions

- FGDC Business and Administrative Activities

- NGAC Overview

- Geospatial Platform
  - *Discussion and concurrence on next steps for 1) Funding algorithm, 2) Business Plan, and 3) GP oversight and metrics group*

- NSDI Strategic Plan
  - *Discussion and concurrence on approach and timeline*

- Discussion: FGDC Path Forward
  - *Leveraging President's Management Agenda & Federal Data Strategy*
  - *Opportunities for agencies to improve availability of data and services*

- Wrap-up and 2017 Doug Nebert NSDI Champion of the Year Award

Questions/Discussion