

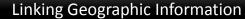


Advancing
Geographic Place-Based Understanding
for Decision-Making

US National Spatial Data Infrastructure Vietnam Delegation Briefing

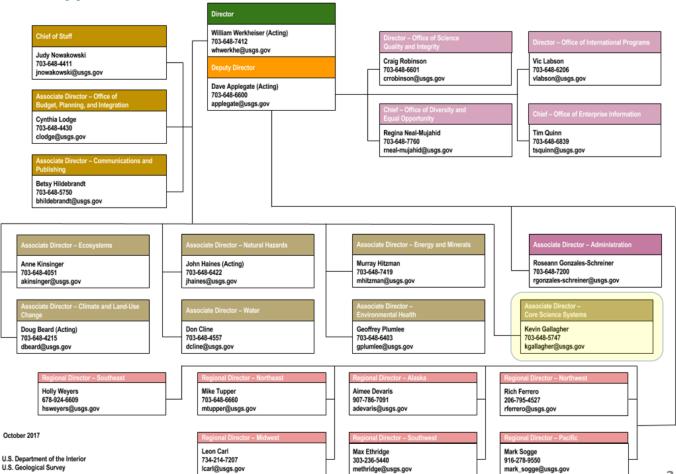
Ivan DeLoatch
Executive Director
Federal Geographic Data Committee





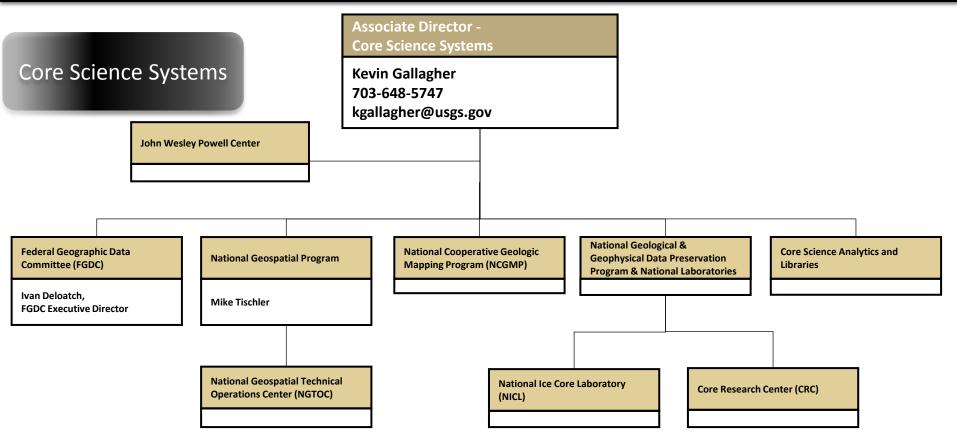


USGS, CSS, FGDC Org
Chart and Intro



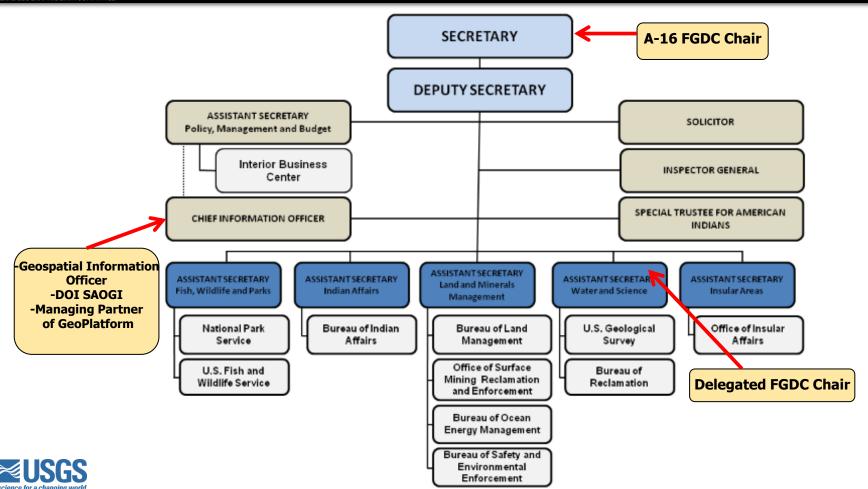














Our Journey Advancing Geographic Place-Based Understanding for the Nation



National Spatial Data Infrastructure

The United States Federal Geographic
Data Committee (FGDC) was Established
to Coordinate the Nations Geographic
Information and Federal Spatial Data
Activities

NSDI Framework for Linking

Geographic Information



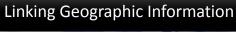
Partnerships Policies Standards Procedures Data **Technology** National Spatial Data Infrastructure

The NSDI Provides a framework of polices, standards, procedures, data and technology to support the effective coordination and sharing of spatial information among a community of stakeholders.











Policy and Procedures

Public Laws

Executive Memos

Coordination of Geographic Information and Related Spatial Data Activities

Office of Management and Budget • Circular A-16 revises



INFORMATION SHARING ENVIRONMENT

ARCHITECTURE (GIRA)

INTEROPERABILITY

GEOSPATIAL

REFERENCE

National Spatial Data Infrastructure

Welcome to the SDI Cookbook

The following contains the text of the book, broken down by chapter.

Each chapter is then broken into subsections.

SDI Cookbook

- · Chapter 1: The Cookbook Approach
- Chapter 2: Geospatial Data Development: Building data for multiple uses
- Chapter 3: Metadata: Describing geospatial data
- Chapter 4: Geospatial Data Catalogue: Making data discoverable
- Chapter 5: Geospatial Data Visualization: Online Mapping
- Chapter 6: Geospatial Data Access and Delivery: Open access to data
- Chapter 7: Other Services
- Chapter 8: Legal Issues and Economic Policy
- Chapter 9: Outreach and Capacity Building: Creating a community
- Chapter 10: Standards Suites for Spatial Data Infrastructure
- Chapter 11: Case Studies
- Chapter 12: Terminology
- · Annex A. Abbreviations and Terminology used in the GSDI Cookbook

Circulars Process for maintaining Reference Guides

Executive Theme Champions, Theme Leads, and Dataset Managers

NGDA datasets inventory and register metadata on the GeoPlatform.gov/ Data.gov catalog

Dir.

NGDA Collaboration Community on Geoplatform.gov

NGDA Theme public websites on GeoPlatform.gov

Dataset Report Coordinate across **NGDA Themes** 2016)

Process for nomination/ removal of NGDA Datasets within the A-16 NGDA Portfolio

Geospatial investments definitions document

3.10

Complete NGDA Dataset Lifecycle Maturity Assessment (LMA)

Initial Theme

Summary Report

(Jan 2016)

NGDA Strategic Theme Plan Template

> Dashboard (Jan 2016)

DATA.GOV





Partnerships Policies Standards Procedures Data Technology National Spatial Data Infrastructure

Standards and Interoperability

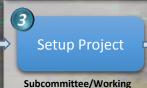
Standards facilitate development, sharing, and use of geospatial data and services











Project



Draft





Group

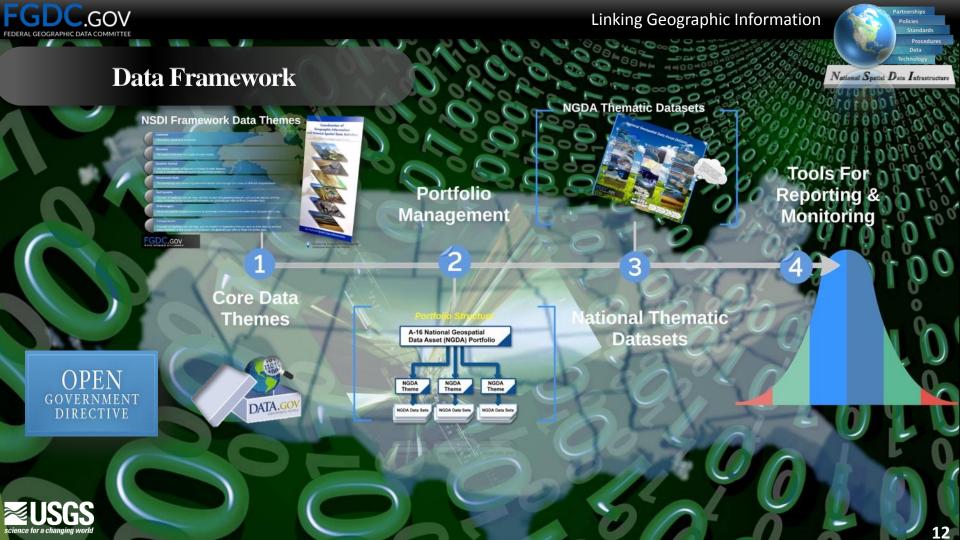






FGDC Steering Committee









Framework Data

Cadastral

Information about land ownership

Elevation

The height of the land and depth of water bodies.

Geodetic Control

The precise location of features in relation to other features using a common reference system for coordinate positions.

Government Units

The boundaries and names of government service and management areas at all levels of government.

Hydrography

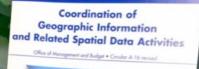
The path of roadways and rail lines, and the location of supporting features such as train stations and bus stops. However, in the context of Framework, we generally just refer to Road Centerline data.

Orthoimagery

Aerial and satellite imagery processed by removing inherent distortions to make them accurate like a map.

Transportation

The path of roadways and rail lines, and the location of supporting features such as train stations and bus stops. However, in the context of Framework, we generally just refer to Road Centerline data.









Real Property

Transportation

Water-Inland

Soils

Utilities





National Geospatial Data Assets Data Themes

- **Biodiversity & Ecosystems**
- Cadastre
- Climate & Weather
- **Cultural Resources**
- Elevation
- **Geodetic Control**

Geology

Government Units

Imagery

- **Land Use & Land Cover**

- Water Oceans & Coasts



NSDI Technology Services







Authoritative trusted, consistent data







TOOLS

Visual & analytical tools and applications









SERVICES

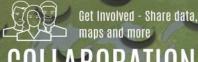
Web-based Geospatial Services











maps and more

OLLABORATION







The GeoPlatform links and Connects Local-to-Global Data, Information and Knowledge





≡Menu •

Sign In

The GeoPlatform links and Connects Local-to-Global

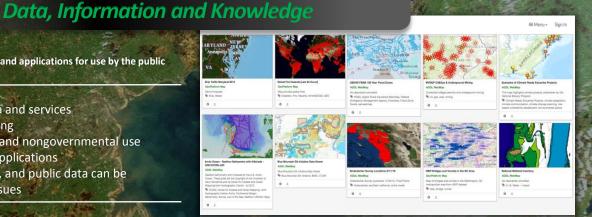
Welcome to the

Geospatial Platform

The GeoPlatform provides shared and trusted geospatial data, services, and applications for use by the public and by government agencies and partners to meet their mission needs.

GeoPlatform users have access to

- A one-stop shop that delivers trusted, consistent data and services
- Authoritative data to support informed decision making
- Reusable applications and services for governmental and nongovernmental use
- A shared infrastructure that can host your data and applications
- A focal point where governmental, academic, private, and public data can be visualized together to inform national and regional issues



Geospatial Platform Services



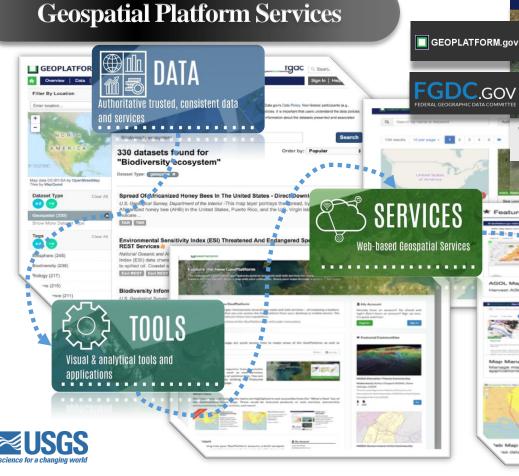








se data layers and construct maps for sharing





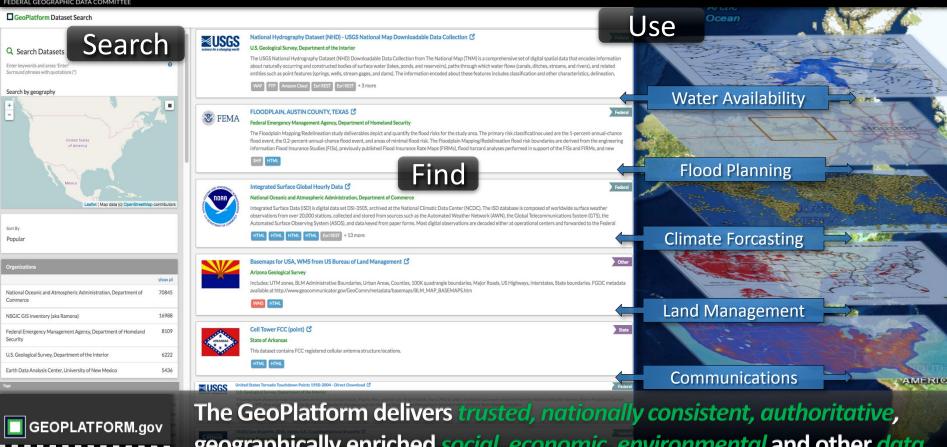


GEOPLATFORM.gov

Applications & Tools

The GeoPlatform provides a suite of *applications and tools* for integrating, synthesizing, analyzing problem-solving and visualizing geographically enriched data to *accelerate understanding* and *decision-making*.





Data Services

geographically enriched *social, economic, environmental* and other *data* for understanding and decision making.



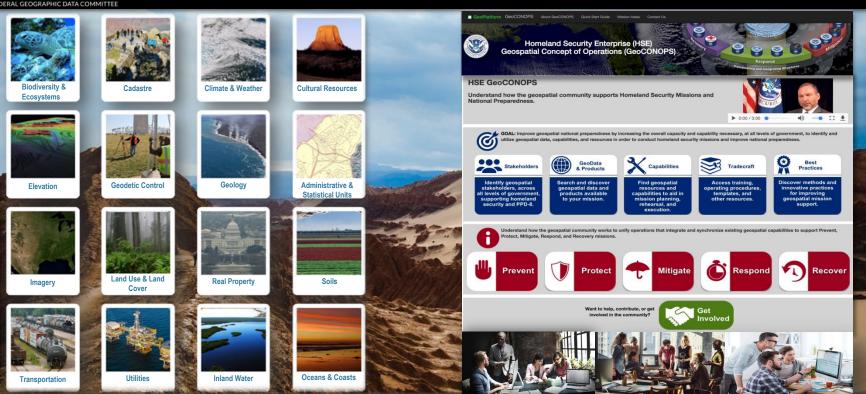




Shared Services

The GeoPlatform provides *shared hosting infrastructure* that allows agencies to publish their geospatial data, applications, and tools in a *secure cloud-computing* environment at a low cost.





GEOPLATFORM.gov

Communities

The GeoPlatform provides *collaborative tools and social resources* to advance the use of geospatial resources by *communities* to achieve measurable results.

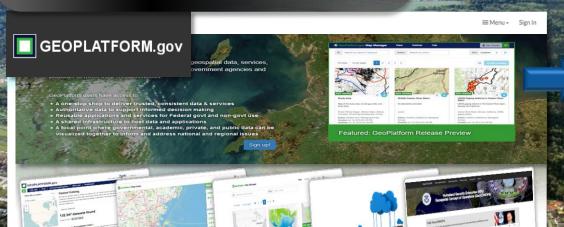


International Collaboration

Tools







National

Products

Services

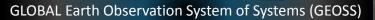
ARCTIC SDI

GeoSUR





Regional







Data Catalog





Opportunities for Cooperation

Lessons Learned and **Best Practices**

Open Data

Architecture and **Standards**

Joint Research and Development















Policies

Standards

Procedures

Data

Technology

QUESTIONS?

Contact: FGDC@FGDC.gov

National Spatial Data Infrastructure

The NSDI Provides a framework of polices, standards, procedures, data and technology to support the effective coordination and sharing of spatial information among a community of stakeholders.

