

Advancing Geographic Place-Based Understanding for Decision-Making



Partnerships

Policies

Procedures

Standards

Data

Technology



National Spatial Data Infrastructure

Advancing Geospatial Capabilities for the Nation

Building an Infrastructure



A hand holding a globe of the Earth. To the right of the globe are five horizontal blue bars with white text. The background is a collage of various icons including a laptop, a globe with letters, a gear, a lightbulb, and a game controller. The overall theme is technology and data.

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The logo for the National Spatial Data Infrastructure (NSDI). It features a stylized globe with the letters 'NSDI' in a bold, serif font overlaid on it.

NSDI

National Spatial Data Infrastructure

Advancing Geospatial Capabilities for the Nation

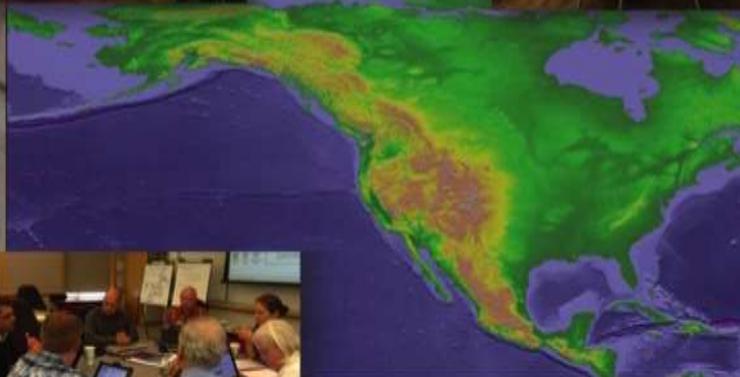
United States Government Accountability Office
Report to the Committee on Homeland Security and Governmental Affairs,
U.S. Senate

GEOSPATIAL INFORMATION

OMB and Agencies
Need to Make
Coordination a
Priority to Reduce
Duplication



National Spatial Data Infrastructure Strategic Plan 2014–2016



Federal Geographic Data Committee

December 2013



National Geospatial Data Asset Management Plan

Portfolio Management Implementation Plan for the OMB Circular A-11
Supplemental Guidance as it relates to OMB Circular A-11, Coordination
Geographic Information and Related Spatial Data Activities



Federal Geographic Data Committee

March 2014

2014/03/14 Please note that a change, related to the, has been made on page 18.

www.fgdc.gov

National Geospatial Data Asset Management Plan



INFORMATION SHARING ENVIRONMENT
GEOSPATIAL
INTEROPERABILITY
REFERENCE
ARCHITECTURE (GIRA)

NATIONAL SECURITY THROUGH RESPONSIBLE
INFORMATION SHARING



Explore the New GeoPlatform

The redesigned GeoPlatform.gov features several new tools and web services for using and sharing **NGDAs**. Explore NGDAs visually. Build a map with your colleagues. Share your maps through a gallery... and more.

Visualize, Understand & Respond to Our Changing World



GeoPlatform a National Resource:

- Authoritative trusted, consistent data and services
- Reusable applications and services
- A shared infrastructure for collaboration
- A focal point where governmental, academic, private, and public data can be visualized together to inform national and regional issues

Featured App: GeoPlatform Map Viewer
Browse thousands of WMS and ESRI-hosted map layers, construct maps, and more with the new and improved GeoPlatform Map Viewer! [Launch >](#)

Map Collaboration
Learn how to compose and share maps using open services with GeoPlatform. [Learn more >](#)

ArcGIS Online Integration
Quickly and easily integrate existing ArcGIS Online maps into your GeoPlatform pages using the Map Manager.

Featured Services
AGOL Map Framework
Map Manager
My Account

Link & Connect Local-to-Global place-based Data, Information & Knowledge

Geospatial Data as a National Asset

NSDI Framework Data Themes



FGDC.gov

1

Core Data Themes

Portfolio Management

2

NGDA Thematic Datasets

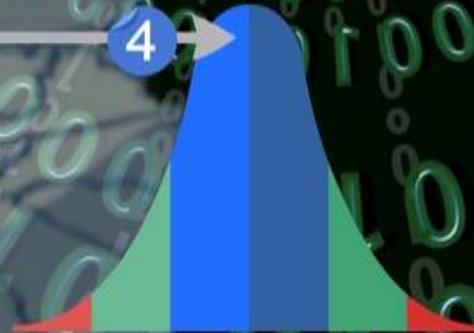


Tools For Reporting & Monitoring

3

National Thematic Datasets

4



NSDI Framework Data Themes

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.



Portfolio Structure

**A-16 National Geospatial
Data Asset (NGDA) Portfolio**

**NGDA
Theme**

**NGDA
Theme**

**NGDA
Theme**

NGDA Data Sets

NGDA Data Sets

NGDA Data Sets

AIMS

National Geospatial Data Asset (NGDA)



Data you can trust—the best available data for an area, certified, standardized, and described according to a common standard. It provides a foundation on which organizations can build by adding their own detail and compiling other datasets.

Tools For Reporting & Monitoring



Annual NGDA
Theme Report

Theme Strategic Plan

NGDA Theme
Maturity Assessment

Annual NGDA
Dataset Report

NGDA Lifecycle
Maturity Assessment



Partnerships & Governance



Federal



State

Local

IEMA

Tribal

NATIONAL SPATIAL DATA INFRASTRUCTURE

Many organizations throughout the United States have a stake in building the National Spatial Data Infrastructure (NSDI) together. The FGDC welcomes participation by state, local and tribal governments, the academic community, and the private and non-profit sectors in building the NSDI. Non-federal organizations may serve as Collaborating Partners by requesting official stakeholder status in writing to the Chair of the FGDC. Collaborating Partners are encouraged to participate on subcommittees and working groups and provide input into all decisions. Voting privileges are not extended to Collaborating

Private/Professional Organizations

Academia

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FEDERAL GEOGRAPHIC DATA COMMITTEE

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Federal



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State



&

Local



WESTERN
GOVERNORS
ASSOCIATION

NATIONAL
LEAGUE
of CITIES



NSGIC

National States Geographic Information Council

ICMA

NATIONAL
ASSOCIATION
of COUNTIES

NACo

FGDC.GOV

FEDERAL GEOGRAPHIC DATA COMMITTEE



Private/Professional Organizations

In the private sector, there is a great variety of participants:

- **users** and **producers** of detailed data, such as utilities;
- **users** of small-scale, limited geographic themes, such as street networks, statistical areas, and administrative units;
- **data producers** who create detailed data as a product or a service;
- **data producers** who create low-resolution, small-scale, limited themes for large areas;
- **product providers** who offer software, hardware, and related systems; and
- **service providers** who offer system development, database development, operations support, and consulting services.



NATIONAL

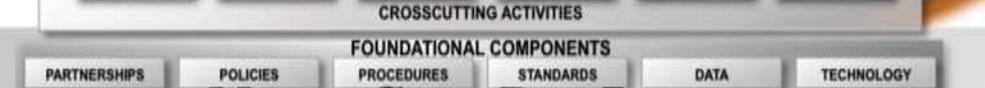
SPATIAL

Governance

INFRASTRUCTURE



Governance and Partnering are foundational elements of the FGDC NSDI Framework



National Geospatial Advisory Committee
 Representation: Federal, State, Agency, Industry, All Organizations
 Role: Oversight & Guidance

Subcommittees
 Representation: Federal, State, Agency, Industry, All Organizations
 Role: Oversight & Guidance

Working Committees
 Representation: Federal, State, Agency, Industry, All Organizations
 Role: Oversight & Guidance

Office of the Secretariat
 Representation: Federal
 Role: Management, Administration, Support

Coordination Group
 Representation: Federal, State, Agency, Industry, All Organizations
 Role: Knowledge of Working Groups

★ NSDI Identified Core Data Layers

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 FEDERAL GEOGRAPHIC DATA COMMITTEE

National Spatial Data Infrastructure

Advancing Geospatial Capabilities for the Nation

★ Cadastre

Cultural Resources

★ 3D Elevation Nation

★ Geodetic Control

Geologic Data

Homeland Infrastructure Foundation-Level Data

Marine and Coastal Spatial Data

★ National Digital Orthoimagery Program

★ Spatial Water Data

★ Transportation

Vegetation

Wetlands

3D Nation Elevation Subcommittee



Natural Resource Conservation



Infrastructure Management



Natural Resource Conservation

3D Nation Elevation Subcommittee

3DEP Executive Forum

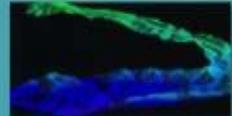
3DEP Working Group (re-chartered NDEP)

Interagency Working Group on Ocean and Coastal Mapping

Subcommittee on Ocean Science and Technology



Precision Farming



Land Navigation and Safety



Geologic Resources and Hazards Mitigation



To view the inventory see:

<http://www.csc.noaa.gov/inventory>

FGDC 2016 Priorities

1. Data Initiatives:

- National Address Database

Develop and implement approach for a National Address Database. Ensure governance & funding models meet needs of major stakeholders.

- 3D Elevation Program

Make significant advancements in the 3DEP initiative. Secure funding commitments for enhancement and institutionalization of program.

- Open Water Data

Advance the integration of water information into a connected, national water data framework.

2. Communications Strategy

Implement national communications strategy for NSDI and Geospatial Platform. Develop a variety of effective and adaptable tools – videos, social media, web presence, etc.

3. Geospatial Platform

Make significant advancements to further develop and institutionalize the Geospatial Platform. Continue to collaborate with external partners on communities, shared services, etc.

4. NSDI Strategic Plan/Transition Strategy

Develop forward-looking ideas and strategic approaches that can be incorporated into transition plans and the next version of the NSDI strategic plan



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FEDERAL GEOGRAPHIC DATA COMMITTEE

Thank You



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25 Years Advancing the Use of Geographic Information