## Federal Geographic Data Committee (FGDC) and the National Spatial Data Infrastructure (NSDI)



Joy Pochatila, NSDI Geo Data Coordinator

08 April 2025





#### Agenda

- Intros
- Geospatial Data Act of 2018 (GDA)
- The Federal Geographic Data Committee
- NSDI 101
- NSDI Strategic Plan How to achieve NSDI 2035
- Next steps Implementation plan
  - Federal Example
  - SDI Modernization Project w/ OGC





#### History | OMB Coordination of Geographic Information







## Geospatial Data Act (GDA) of 2018

Established FGDC as "the lead entity in the executive branch for the development, implementation, and review of policies, practices, and standards relating to geospatial data" National Spatial Data Data Stewardship and FGDC Roles and Responsibilities Infrastructure Management National Geospatial Advisory GeoPlatform Standards Committee Reporting and Audits





#### Who is the FGDC?

































































FGDC is a 32-member Interagency Committee.





#### FGDC Leadership

- Chair of FGDC: Secretary of the Interior
  - Traditionally delegated to Assistant Secretary for Water & Science
- Vice-Chair of FGDC: Director of Office of Management and Budget
  - Delegated to Office of the Federal Chief Information Officer
- FGDC Office of Secretariat (FGDC OS): USGS
  - Josh Delmonico, FGDC Executive Director, USGS Core Science Systems
     Mission Area
- GeoPlatform Managing Partner: DOI OCIO
  - Tod Dabolt, Chief Data Officer, DOI Office of the Chief Information Officer







## FGDC Responsibilities

#### **Federal**



**Oversight of NGDA Portfolio** 

**Geospatial data standards** 

**Operate GeoPlatform** 

Promote cost-effective strategies (data collection, maintenance, distribution, and preservation)

Report to Congress every 2 years

#### **National**



Develop and manage the NSDI strategic plan and geospatial data policy

Implement the NSDI (define roles and responsibilities for federal, state, tribal, and local governments, academia, and the private sector)

Advise Federal/non-Federal users of geospatial data on their NSDI responsibilities

#### Global



Coordination on global spatial data infrastructures

International geospatial data standards





#### FGDC Governance Structure

**Federal Geographic Data Committee (FGDC)** – 32 member interagency committee established within the Dept. of the Interior "which shall act as the lead entity in the executive branch for the development, implementation, and review of policies, practices, and standards relating to geospatial data." (43 USC Ch. 46 – <u>Geospatial Data Act of 2018</u>)





#### FGDC Office of the Secretariat

Joshua Delmonico Executive Director

Kenneth Shaffer
Deputy Executive Director

Megan Compton
Senior NSDI Advisor

Elizabeth DuBan
Interagency
Coordinator

Eldrich Frazier
Senior Advisor for
Geo Technology

Jennifer Harlan Management Analyst Joy Pochatila NSDI Geospatial Data Coordinator Roxanne Lamb

Program Analyst Interagency Contracts and Reporting (on detail)





#### FGDC 2025 Activities







#### Stewardship of Data | National Geospatial Data Asset (NGDA) Data Themes





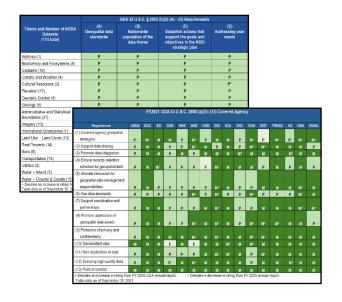


## GDA Reporting and Accountability to Congress

#### GDA performance reporting data is available in multiple formats for different audiences:



Individual Agency and NGDA Reports



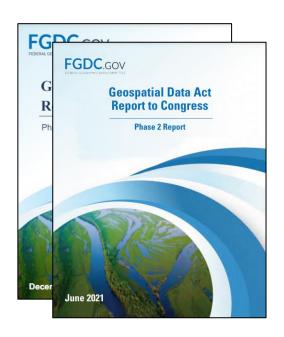
**GDA Summary Report** 



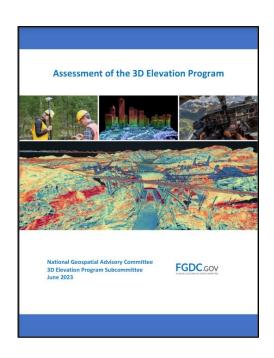


## National Geospatial Advisory Committee (NGAC)

#### Federal Advisory Committee reports to the FGDC Chair through the Designated Federal Officer



Input on Key
Initiatives



Advice on Federal Programs: 3DEP and Landsat Advisory Group

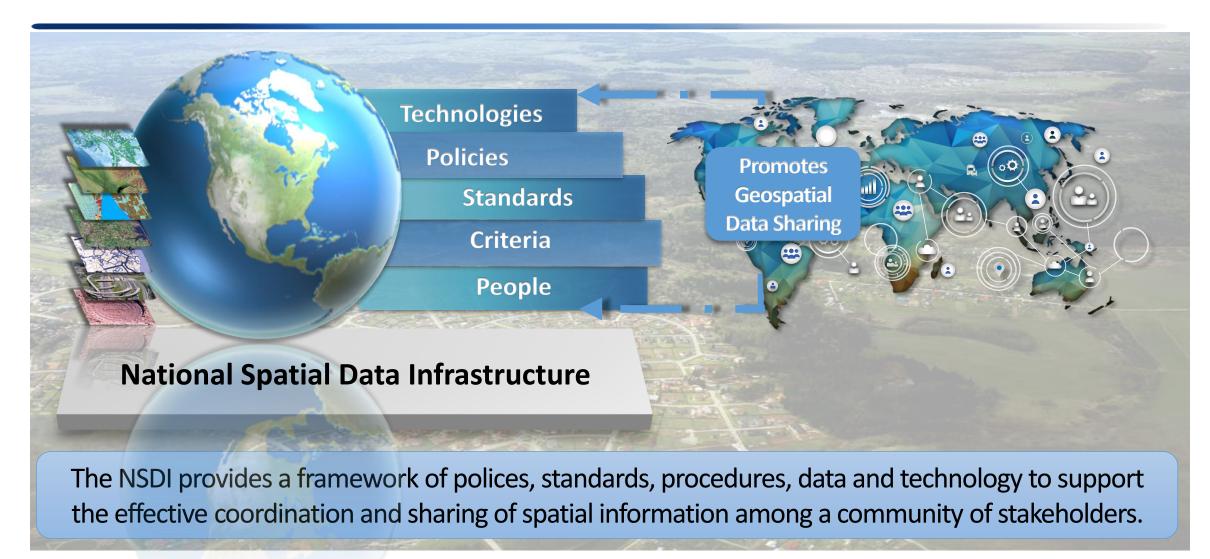


Cross-sector collaborative representation





#### NSDI 101: What is the National Spatial Data Infrastructure?



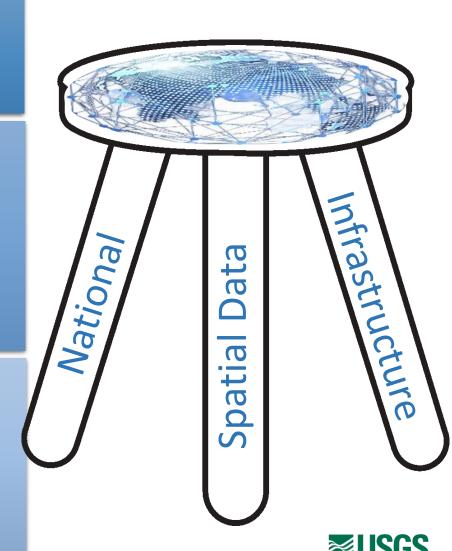




## National Spatial Data Infrastructure – The Components

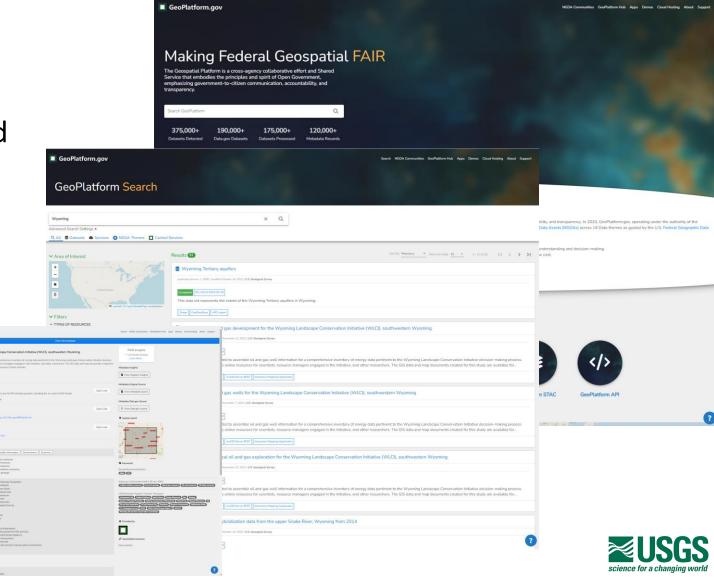
# **National Spatial Data** Infrastructure FGDC.GOV

- Federal, state, local, and tribal governments,
- Academia and non-profits
- Private sector
- Location-based: Places and things on Earth
- Physical and cultural world
- Enhance the understanding of our world
- Describes the arrangement and attribution
- Standards
- Easily integrated and available
- Materials
- Technology
- Policy
- People
- Promote data sharing for all



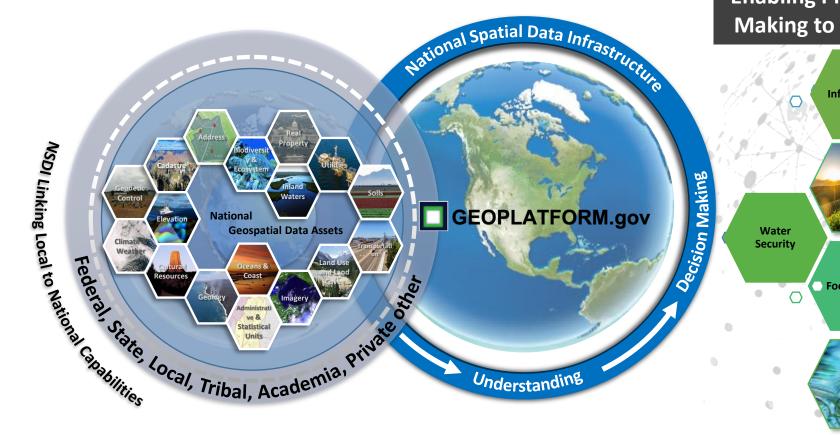
## GeoPlatform.gov

- Open data and metadata required by GDA
- Ensures Federal geospatial data is Findable, Accessible, Interoperable and Reusable (FAIR)
- 120,000+ geospatial records
- 3,500+ GeoPlatform users





# Enabling the NSDI with GeoPlatform A Framework for Place-Based Understanding and Decision Making



**Enabling Place-Based Understanding and Decision Making to Solve our Nations Toughest Challenges** 



GeoPlatform.gov connects stakeholders to information and infrastructure and provides applications and tools for understanding and decision-making.





#### 2035 NSDI Strategic Plan: Building the Geospatial Future Together

- Developed by NSDI Core Team
- Broad stakeholder engagement
  - 1,000+ individuals and organizations
  - National Geospatial Advisory Committee
  - Outreach in conferences, webinars, and public review
- Endorsed by NGAC on October 16, 2024
- Approved by the FGDC on October 18, 2024













Building the Geospatial Future Together— The NSDI Strategic Plan 2025–2035





October 2024







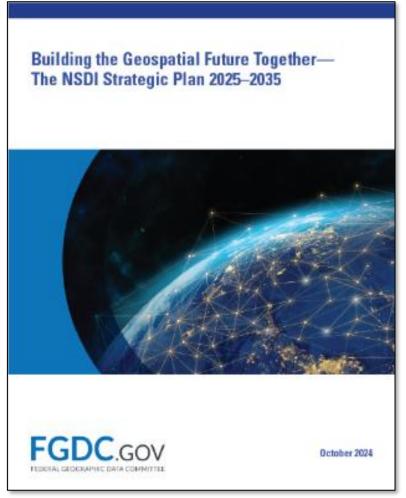
### 2035 NSDI Strategic Plan

#### Vision

A seamlessly interconnected national geospatial ecosystem.

#### Mission

Deliver highly responsive, timely, dependable, and interoperable geospatial data, applications, and services that provide knowledge on demand and actionable insights to inform decisions; address local, regional, national, and global challenges; and benefit all people.

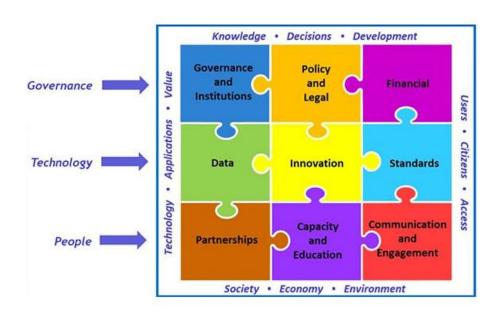








## UN IGIF and US NSDI Strategic Plan



"At the centre of this transformation from the SDI to the GKI framework lies the United Nations' multidimensional Integrated Geospatial Information Framework, most known as the IGIF."

Source: UNGGIM Discussion Paper, DEVELOPMENT OF CONTEXTUAL UNDERSTANDING, INFORMATION, AND ANALYTICS TOWARDS DETERMINING THE NATIONAL GEOSPATIAL INFORMATION ECOSYSTEM. July 2022. p.5

| Goals   | Objectives                      |                                  |  |
|---|---------------------------------|----------------------------------|--|
| Governance: Implement National Governance and Collaboration                               | 1.1 Governance and Institutions | 1.2 Policy and<br>Legal          | 1.3 Financial                          |
| Data and Technology: Strengthen/Adapt the Infrastructure and Leverage Advanced Technology | 2.1 Data                        | 2.2 Innovation                   | 2.3 Standards 2.4 Infrastructure       |
| People: Building a Skilled and Inclusive Geospatial Workforce for a Sustainable Future.   | 3.1.<br>Partnerships            | 3.2 Capacity<br>and<br>Education | 3.3<br>Communication<br>and Engagement |

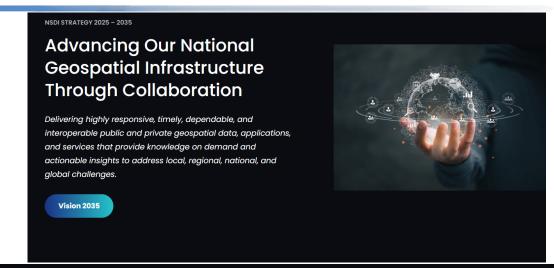




#### Open Geospatial Consortium (OGC) SDI Modernization Project

#### Project Goals:

- Demonstrate the vision in the NSDI Strategic Plan
- Showcase the latest spatial capabilities fostering data ecosystems
- Advance the **capabilities** needed to achieve the 2035 NSDI vision:
  - Global Interoperability
  - Al-driven Action
  - Self-Updating Maps
  - Intelligent Search and Discovery
  - Immersive Visualization
  - Geospatial Knowledge and Insights
- OGC will be issuing a 'Call For Contributions'



NSDI MODERNIZATION PROJECT

#### **Focus Areas**

The NSDI Modernization Program seeks to maximize the value of geospatial through governance, data & technology and learning fostering data sharing, innovation, and the development of best practices. Read more about these focus areas below.



#### Governance

We collaborate with county and state government, the private sector, academia and non profits to *unlock* geospatial data.



#### **Data & Technology**

We collaborate with technology providers, software companies and standards bodies to *drive* interoperability.



#### Learning

We collaborate with educational establishments, academia and professional associations to *upskill* our workforce.





## Movement to action requires a plan







## Next steps for Implementation

The world needs dreamers and the world needs doers. But above all, the world needs dreamers who do.

By Sarah Ban Breathnach

- Implementation Workshop
  - Test the template
  - Preferred/suggested format
- Draft guidance for the template
- Outreach to federal agencies
- Outreach to other sectors





## Elements of the Template – Federal Example DRAFT



PURPOSE: Advancing the technology, policies, criteria, standards, and employees necessary to promote geospatial data sharing throughout the Federal Government, State, Tribal, and local governments, and the private sector (including nonprofit organizations and institutions of higher education).

| Goals   | Objectives (Roles/Respsonsibilites assigned to organizations for each task)   |  |  |
|---|---|--|--|
| Governance: Implement National Governance and Collaboration                               | <ul> <li>1.1 Governance</li> <li>□ Task 1.1.1 - Establish decision-making structure</li> <li>□ Task 1.1.2 - Establish process for tracking Implementation Plan tasks</li> <li>1.2 Policy and Legal</li> <li>□ Task 1.2.1 - Refine GDA reporting</li> <li>□ Task 1.2.2 - Identify policies inhibiting NSDI implementation and define risks to NSDI</li> </ul>  | 1.3 Financial  ☐ Task 1.3.1 - Identify resourcing gaps ☐ Task 1.3.2 - Identify opportunities for efficiencies ☐ Task 1.3.2 - Determine ROI metrics for NGDA datasets |  |
| Data and Technology: Strengthen/Adapt the Infrastructure and Leverage Advanced Technology | 2.1 Data  □ Task 2.1.1 - Improve data accuracy □ Task 2.1.2 - NGDA portfolio management □ Task 2.1.3 - Coordinate with local governments | Task 2.4.2 - Employ tools for  |  |
| People: Building a Skilled and Inclusive Geospatial Workforce for a Sustainable Future.   | 3.1. Partnerships  □ Task 3.1.1 - Federal Partnerships □ Task 3.1.2 - Local and state partnerships □ Task 3.1.3 - Academia and private industry partnerships □ Task 3.1.3 - Academia and private industry partnerships □ Task 3.2.3 - Foster learning opportunitiat middle/high schools □ Task 3.2.3 - Utilize Pathways internship  | Task 3.3.2 - Utilize advocacy organizations such as COGO  es   |  |

## Questions?

# FGDC.GSV



