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# *National Spatial Data Infrastructure 2035*

## *Geospatial World Forum*



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# The NSDI Today

1. National, private sector, non-profit, academic, Federal, State, Tribal and Local datasets
2. Global Standards Framework
3. Tools and Applications
4. Policy and Governance

State, Local  
and National  
Datasets


Geospatial  
Data Act of  
2018

Standards

State Spatial  
Data  
Infrastructures  
(SDIs)

FGDC, NSGIC,  
and state  
coordinating  
councils

Significant progress has been made on implementing the NSDI however much work remains.



“We are drowning in information,  
while starving for wisdom.

*E.O. Wilson*

# Challenges

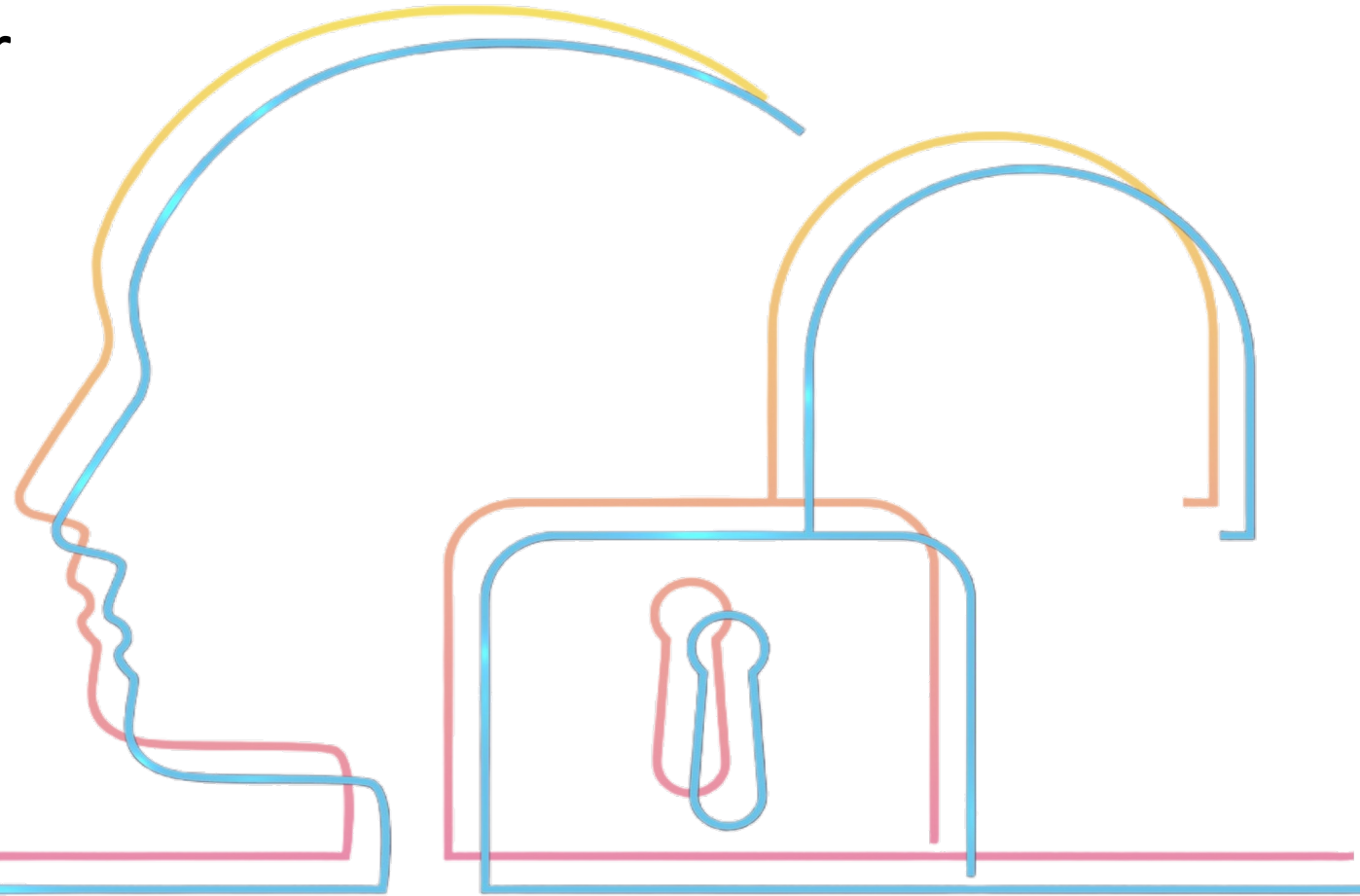
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- We don't fully understand the impact of AI on society and geospatial
- Ill prepared to support new and emerging technology (e.g., AI and autonomous vehicles)
- Still too hard to use and access geospatial data without help of experts
- Multiple data producers creating overlapping data blurring lines between authoritative/fit for purpose and best available (e.g., roads and trails)
- Falling short delivering the potential of our data
  - Data are missing, incorrect or out of data
  - Data are duplicative and conflict with other data
  - Data are difficult to conflate
- Current processes are too expensive and time consuming in the rapidly evolving environment we face today
- Applications are geospatially focused and difficult to use or are not relevant to a significant number of users

We must think differently about what we do, identify and challenge our assumptions and understanding, and act for the greater good not just in our own self interest.

# Our Responsibility

1. There is value locked in our data.
  - a. Time
  - b. Money
  - c. Lives
  - d. Productivity
  - e. Opportunity cost
2. It is our job to unlock it.



# NSDI 2035

1. AI-driven Action
2. Global Interoperability
3. Self Updating Maps
4. Intelligent Search and Discovery
5. Immersive Visualization
6. Geospatial Knowledge and Insights

“Geospatially informed  
NOT geospatial centric”

Geospatial knowledge available to everyone. Location information integrated in A/I and available in everyday applications (e.g., Siri)

# What are the risks?

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- Time and resources required to meet current and future needs are prohibitive
- “Our past experiences and successes are biggest risk to future success”
  - One Stop Shops
  - Single national datasets
  - Standards/metadata/conflation workflow
- Lack of understanding of what current and emerging technology enables us to do
- People and organizations acting in self interest vs national or global interest



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# **Vision 2035: Advancing the US National Spatial Data Infrastructure – A Strategic Plan for Innovation and Collaboration 2025 - 2035**

# NSDI 2035: Vision and Mission Statement

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## Vision

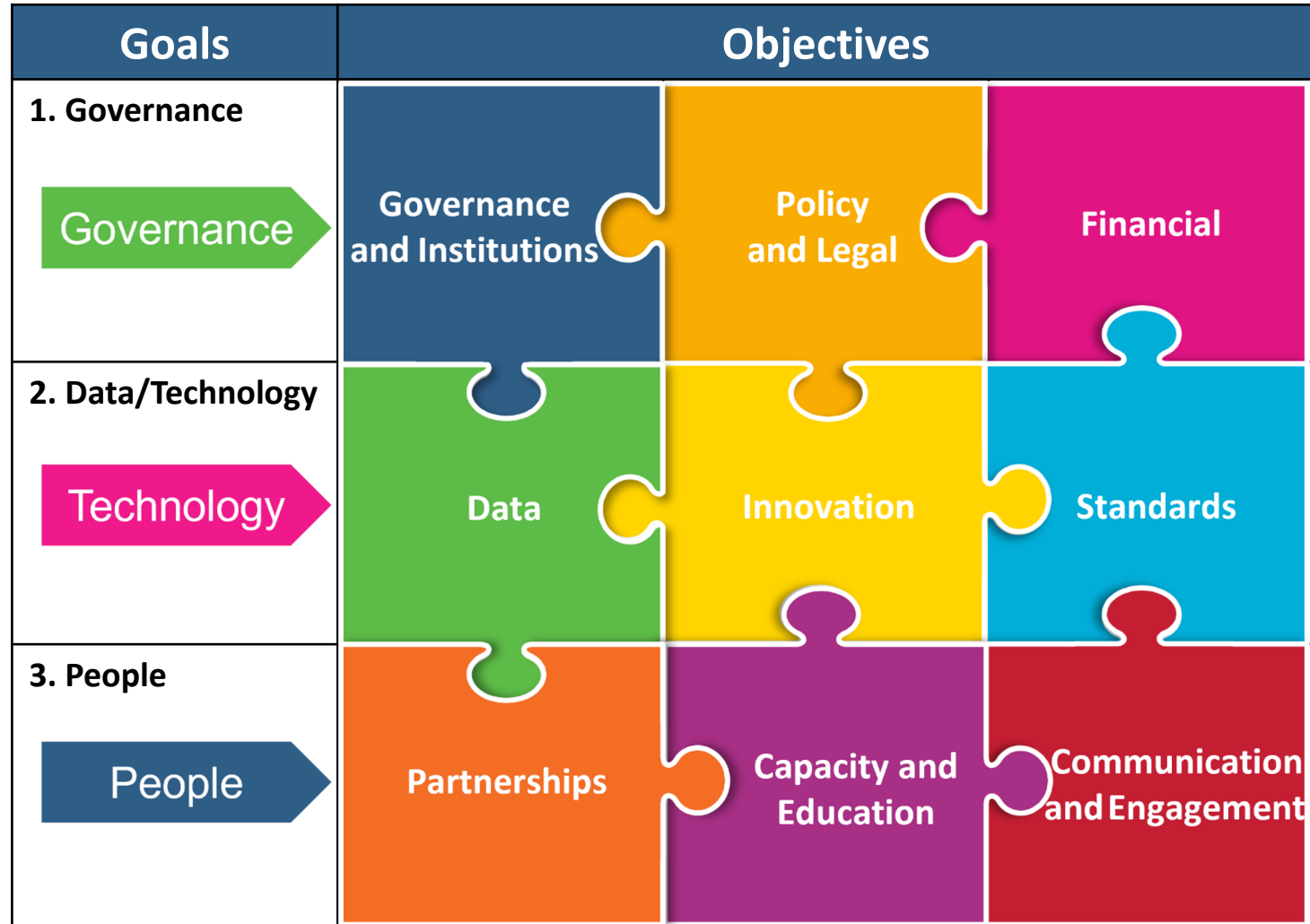
A seamlessly interconnected global geospatial ecosystem.

## Mission

Deliver highly responsive, timely, and dependable public and private geospatial data, applications and services that provide knowledge on-demand and actionable insights to address local, regional, national, and global challenges.

# National Leadership

## Building the NSDI Strategic Plan of the Future



# NSDI 2035: Goals and Objectives



# Way Ahead

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Implement!

- Release Draft Plan for public comment (May)
- Adjudicate comments (June)
- Finalize Plan through Steering Committee (July)
- SDI Modernization Pilots with Open Geospatial Consortium (late summer/fall 2024)
- Develop implementation plan(s) (2024 - 2025)

# Questions?

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FGDC.GOV



# 2035 Priority National Datasets

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- Parcels
- Addresses
- Buildings/Structures
- Imagery
- Hydrography
- Utilities
- Land use
- Trails
- Road electronic navigation charts
- Boundaries