Alaska Geospatial Council

# GIS Day Celebration

## Sponsored By:

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WOOLPERT

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# Housekeeping

Sign-in

- Agenda – agc.dnr.alaska.gov
- QA – remote and in-person
- No-Mic RULE
- Raffle: must be in-person and in-attendance
- Sign-in: QR code – ESRI StoryMap license

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# ALASKA MAPPING EVENTS SCHEDULE
# NOVEMBER 14TH-18TH

## Monday November 14th

Alaska Geospatial Council

**AGC GIS Day Celebration**

**IN PERSON**

**Dena'ina Center, 600 W. 7th Ave Anchorage AK**

**Kahtnu 1 conference room**

## Tuesday November 15th

Alaska Geospatial Council

**AGC GIS Day Celebration**

**IN PERSON**

**Dena'ina Center, 600 W. 7th Ave, Anchorage, AK**

**Kahtnu 1 conference room**

Event can also be live streamed!
**PLEASE RSVP** for in-person or virtual:

## Wednesday November 16th

**ALASKA COASTAL & OCEAN MAPPING SUMMIT**

**VIRTUAL EVENT**

**Coastal Day**

## Thursday November 17th

**ALASKA COASTAL & OCEAN MAPPING SUMMIT**

**VIRTUAL EVENT**

**Ocean Day**

**PLEASE RSVP** for the virtual event:

## Friday November 18th

**IN PERSON SOCIAL**

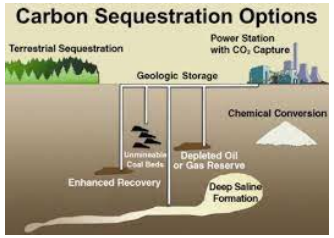
**5pm**

**ONSITE BREWING COMPANY**

**Anchorage AK**

**NO-HOST**

# Geospatial Journey



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# Who is….

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Geospatial Information Officer

Dr. Leslie Jones

Andrew Herbst

Geoportal Manager

Erin Novakovich

Geoportal Manager

Nadine Doiron

NOAA Digital Coast Fellow

# What is….

ALASKA GEOSPATIAL OFFICE

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## Mission

Coordinate the development and management of geographic information in Alaska

## Vision

Provide credible, timely and accurate geographic information for widespread use by decision-makers and Alaskans

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# Improving and Modernizing Alaska's **Spatial Data Infrastructure (SDI)**

## What is SDI?

- For every organization or agency producing or working with geospatial data…SDI is a way for them to put that data together and **share collaboratively with their partners**
- SDI puts governance, data, and technology mechanisms in place for data sharing AND…
- …most importantly puts the capacity building and **engagement pieces to work across and among organizations** to help solve problems
- **Key Characteristic? MULTI-organizational**

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# Spatial Data Infrastructures (SDI):
## Organizational or thematic driven

Country to country (pan-European SDI)

Addresses

Global SDI

Imagery

Local govs to State

NG 9-1-1

Regional – state to state

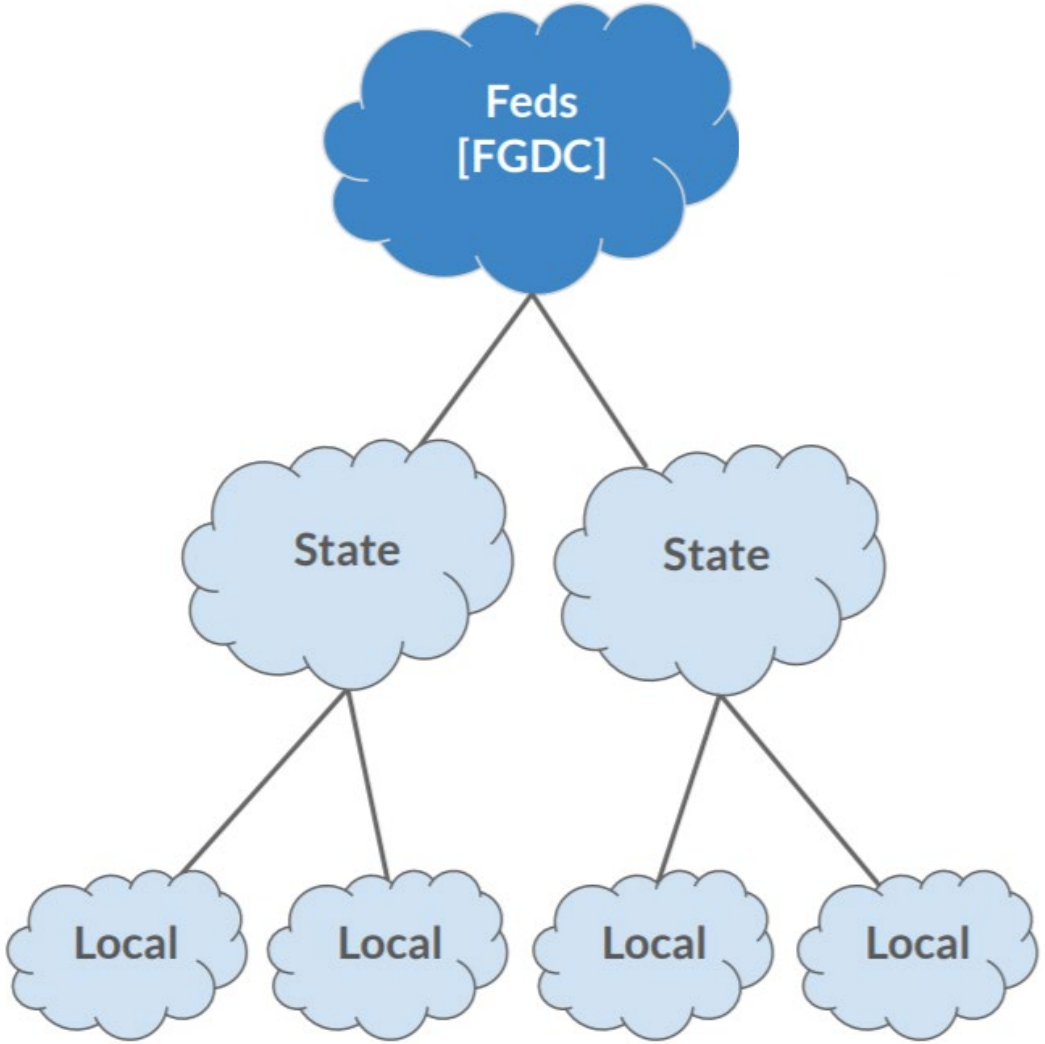
Coastal

Wetlands

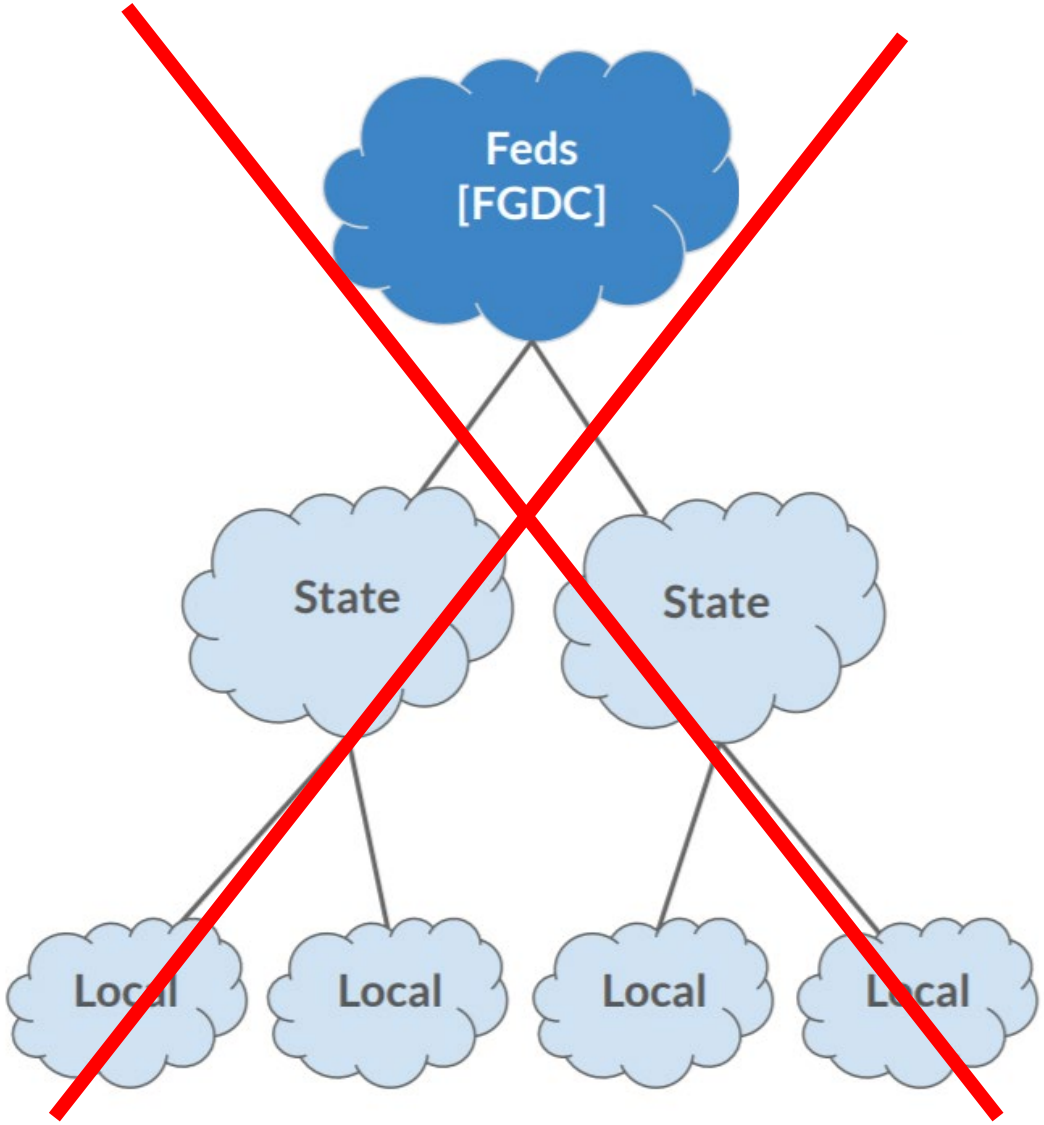
Parcels

Roads

# National Spatial Data Infrastructure (SDI)



# National Spatial Data Infrastructure (SDI)




National ≠ Federal

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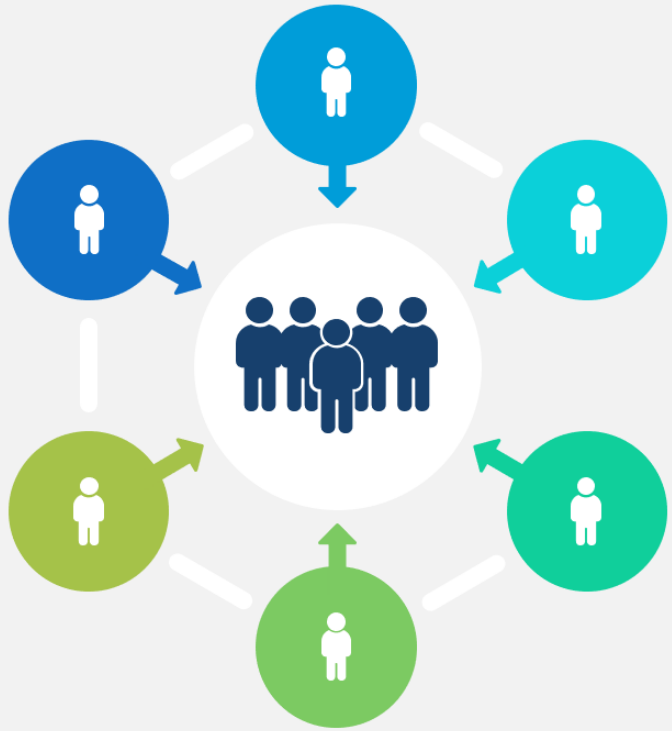
# National Spatial Data Infrastructure (SDI)

- Local Government
- Regional Government and Councils
- State Government
- Federal Government
- Public and Private Utilities



- Non-Profits
- Professional Associations
- Private Industry
- Tribal Councils
- Academic Institutions

## Different levels of government responsible for different data themes

Alaska Geospatial Council

# Alaska's Spatial Data Infrastructure (SDI)

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## What SDI is NOT

- Not just servers and databases
- Not a data clearinghouse
- Not a metadata clearinghouse
- Not technology

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# Modern SDI: Four Pillars

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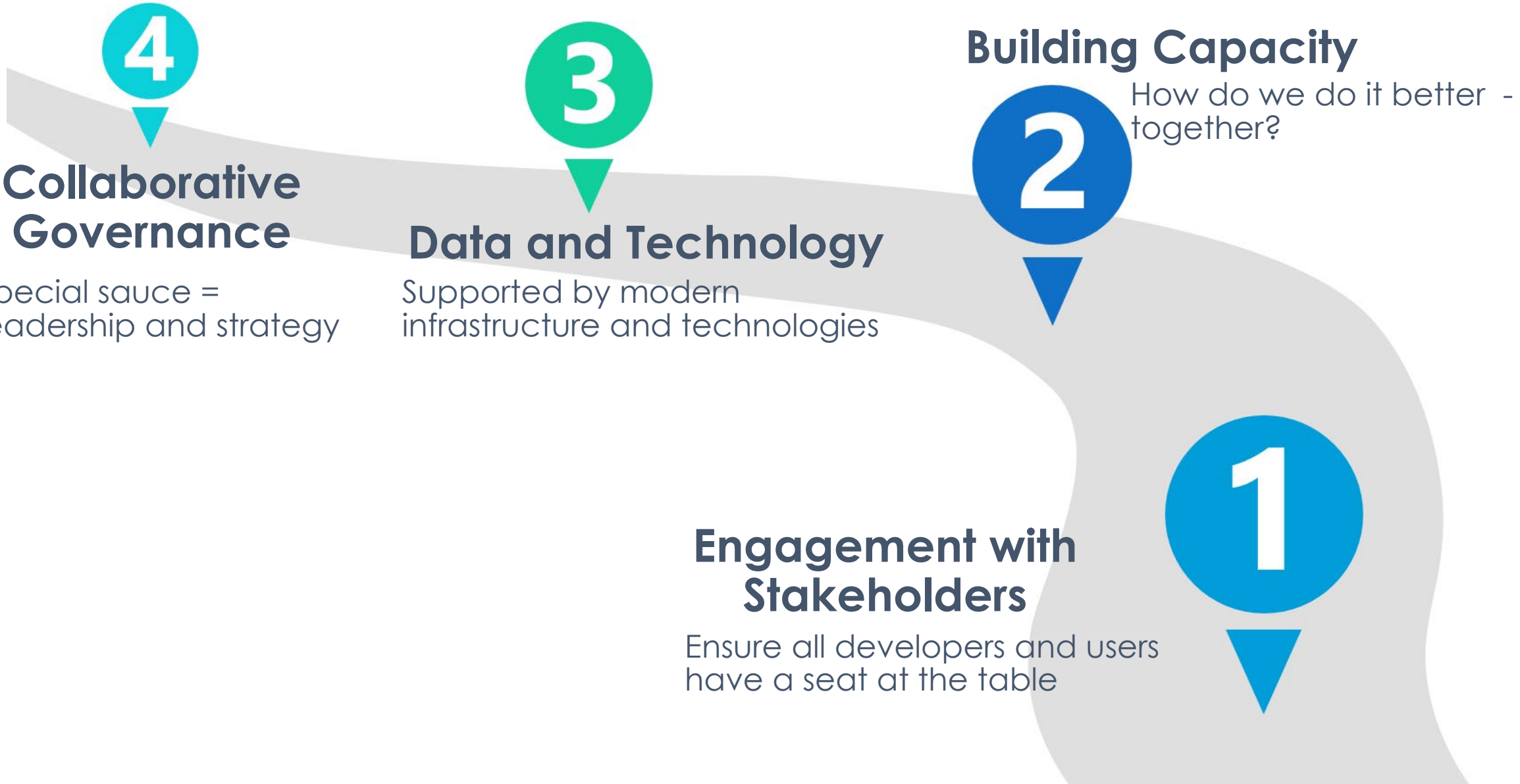


4

## Collaborative Governance

Special sauce = leadership and strategy

3

## Data and Technology

Supported by modern infrastructure and technologies

## Building Capacity

2

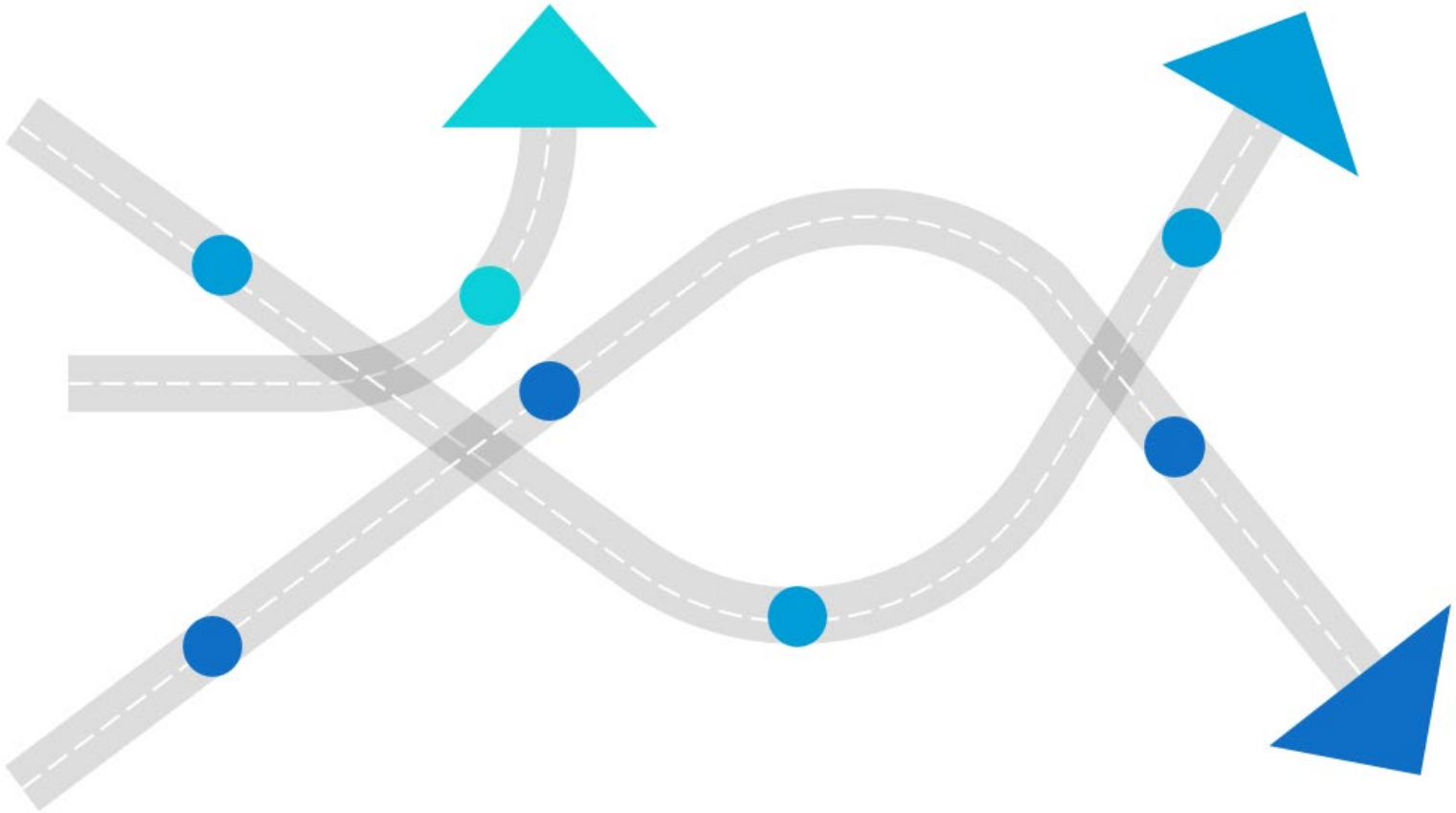
How do we do it better - together?

## Engagement with Stakeholders

1

Ensure all developers and users have a seat at the table

# Why do states have Councils ?



**« Most successful SDIs around the world are not the best funded – they are the ones with good leadership that help keep people moving in the same direction »**

Dr. Jill Saligoe-Simmel

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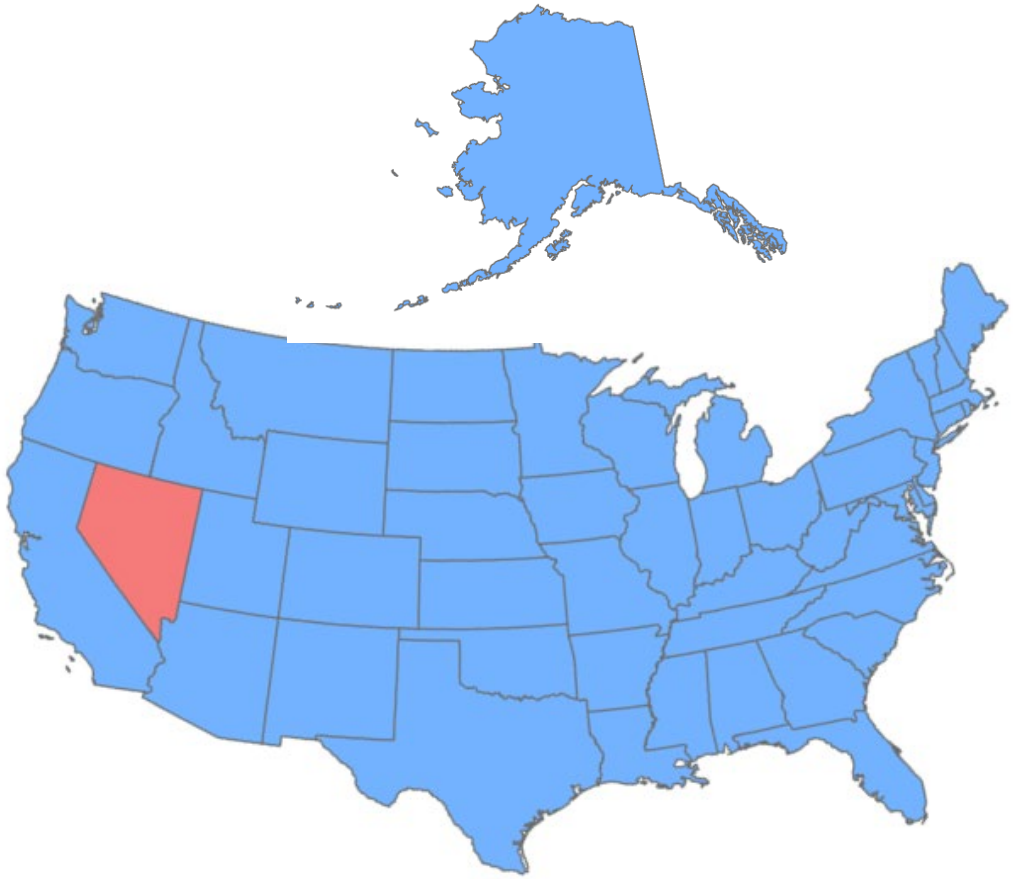
# How many states have…

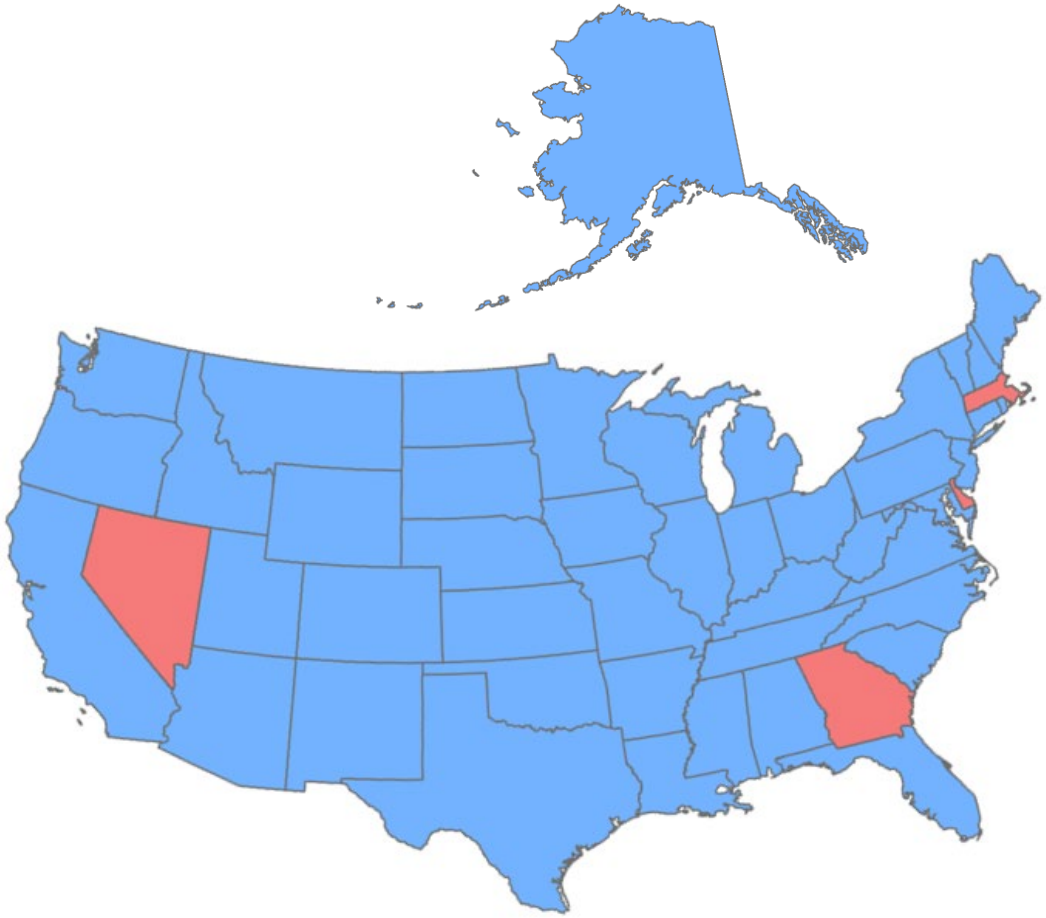
YES

NO

## GIOs or equivalent?

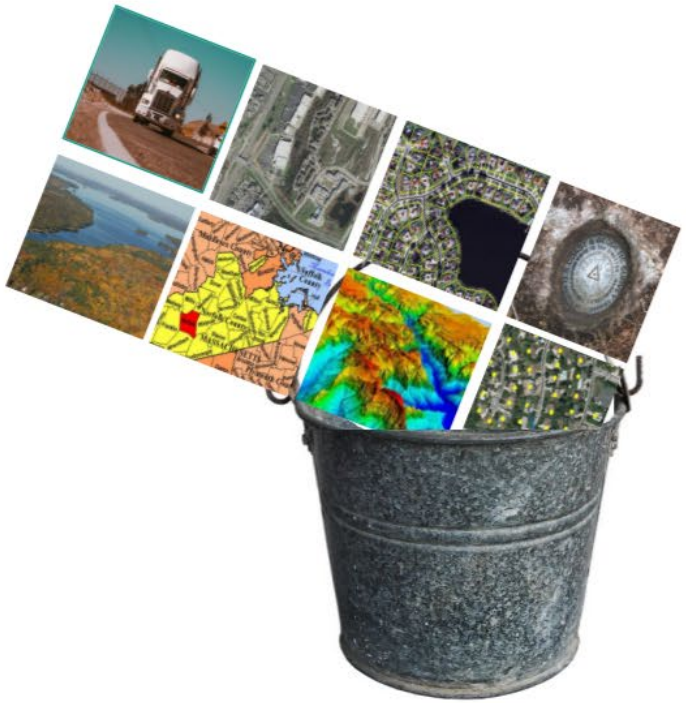


## Geospatial Councils?



# Why do states have Councils ?

State SDI Governance



Credit: Bill Johnson - AppGeo

Utah Geospatial Resource Center UGRC

IndianaMAP

nc ONE map

AZGeo DATA HUB

GOAL:

To have representation of all stakeholders – to create complete and comprehensive shared data

Spatial Data Infrastructure

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Collaborate – Innovate – Educate – Share

# Alaska Geospatial Council

## Pathway for Public and Private Engagement

**Independent Advisory Council** administered by Alaska Geospatial Office

### Alaska Geospatial Council

*Coordinating across agencies to provide public access to geospatial data and maps critical to decision-making*

*Supporting economic development and the public safety and well-being of Alaskans*

**The Alaska Geospatial Council aims to put the best available geospatial data and technologies in the hands of Alaskans.**

#### Charter

March 2022 - AGC released a new charter.
Click here to read

#### Vision

To create a sustainable statewide geospatial framework to provide technology, policies, standards, and human resources necessary to improve the availability of geospatial information to all Alaskans.

#### Mission

To facilitate collaboration and communication between all public and private stakeholders based on a philosophy of shared responsibilities, shared cost, shared benefits, and shared control.

**The Alaska Geospatial Council is administered by the Alaska Geospatial Office.** Learn More

# Alaska Geospatial Council

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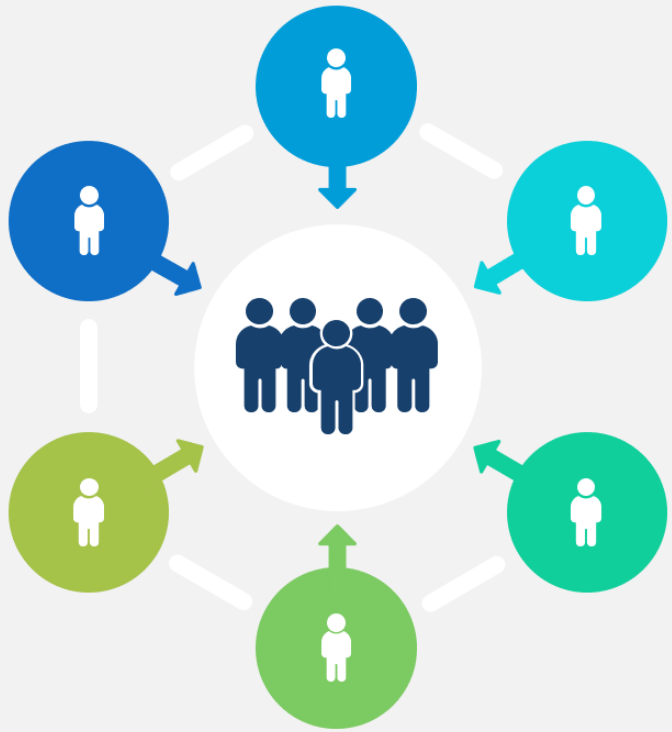
- Local Government
- Regional Government and Councils
- State Government
- Federal Government
- Public and Private Utilities



- Non-Profits
- Professional Associations
- Private Industry
- Tribal Councils
- Academic Institutions

To have representation of all stakeholders

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# AGC's Strategic Goals

## COORDINATION

### 1 Build Collaborative Relationships

Evaluate needs, priorities, reduce duplication of efforts, leverage funding, share data.

## DATA SHARING

### 2 Shared Geospatial Framework

Authoritative data management, streamline data access and inter-agency sharing.

## GOVERNANCE

### 3 Establish Governance

Establish and adopt horizontal (inter-agency) and vertical (within agency) governance.

## ANALYTICS

### 4 Provide Access to Self-service Tools

Provide appropriate access to geospatial data, maps and applications to Alaskans.

## CULTURE

### 5 Enhance Capabilities and Literacy

Provide access to training, promote innovation and enhance data literacy.

Collaborate – Innovate – Educate – Share

# Leadership is key to success

**« If you don't have leadership, vision and collaboration – technology doesn't matter »**

-- Dr. Jill Saligoe-Simmel

## Ensure YOUR voice is heard!

# Be a part of the community

## Explore AGC Working Groups

The AGC Working Groups are the **backbone of the Council**. These groups work to identify gaps in statewide data and coordinate amongst stakeholders to address mapping deficiencies.

Coastal & Ocean Working Group

Learn More

Wetlands Working Group

Learn More

Geodetic Working Group

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Vegetation Working Group

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Enterprise GIS Working Group

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Transportation Working Group

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Cadastral Working Group

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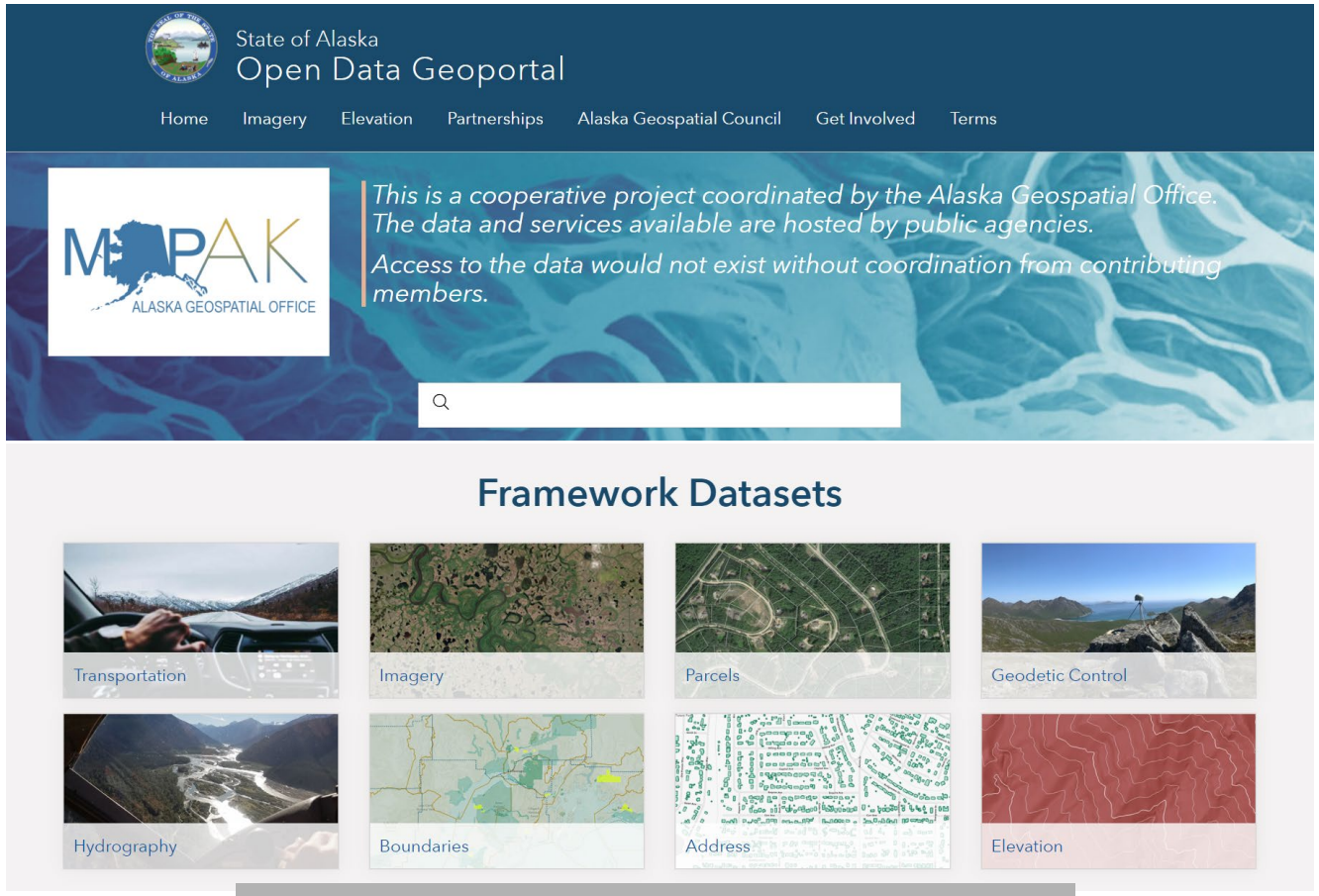
Imagery and Elevation Working Group

Learn More

Hydrography Working Group

Learn More

# GOALS



- Comprehensive shared data framework

- Complete statewide mapping of foundational framework datasets

Alaska Geospatial Council

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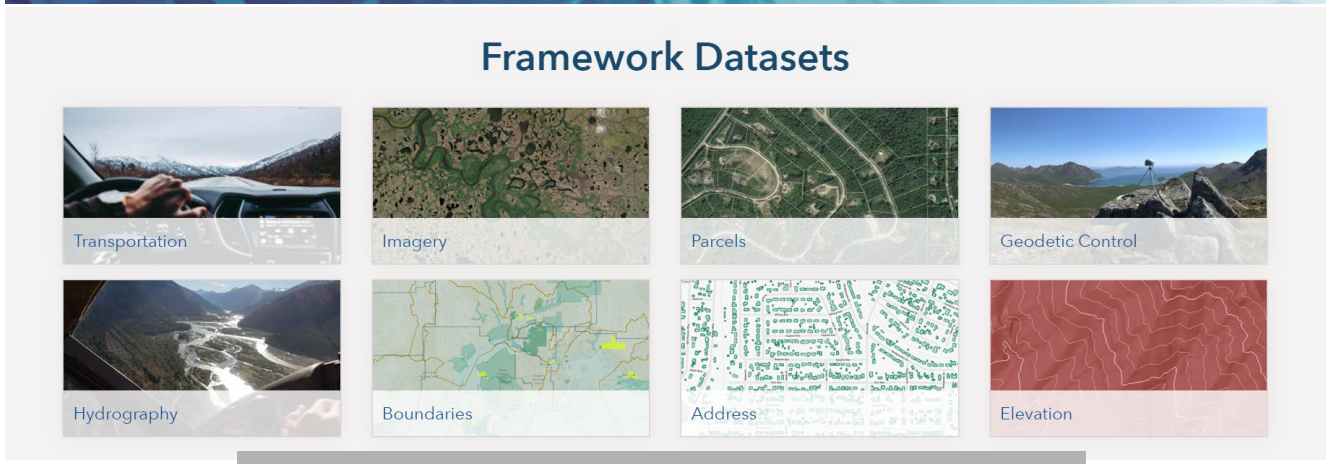
Collaborate – Innovate – Educate – Share

# Future of the State Geoportal?



Managed by Alaska Geospatial Office

- Build **Collaborative Governance** by working WITH the Data Stewards for individual organziations and agencies
- Ensure **authoritative data** is accessible in portal
- Implement **data standards** requirements thru collaboration with stakeholders
- Eliminate **duplicate** datasets
- NEW **Imagery/Elevation**/…Bathymetry database and application for downloads
- Foundational – Framework datasets

# Role-Models in the Nation

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2021 Indiana Data Sharing Dashboard

**GIS DATA HARVEST PROGRAM**

**Download datasets:**

- Statewide datasets:
  - Address Points
  - Street Centerlines
  - Parcels
  - County Boundaries
  - Other Boundaries
- County datasets
- Metadata
- Geocoding geodatabase and statewide locators (ArcGIS Pro)
- Geocoding statewide locators (ArcMap)
- 2021 Department of Local Government Finance real property geodatabase (includes PARCEL, LAND, IMPROVE, DWELLING, BUILDING, and BUILDING DETAIL tables).

**Feature services:**

Parcel layer:
https://gisdata.in.gov/server/rest/services/Hosted/Parcel_Boundaries_of_Indiana_2021/FeatureServer

Address Layer:
https://gisdata.in.gov/server/rest/services/Hosted/Address_Points_of_Indiana_2021/FeatureServer

Street Layer:
https://gisdata.in.gov/server/rest/services/Hosted/Road_Centerlines_of_Indiana_2021/FeatureServer

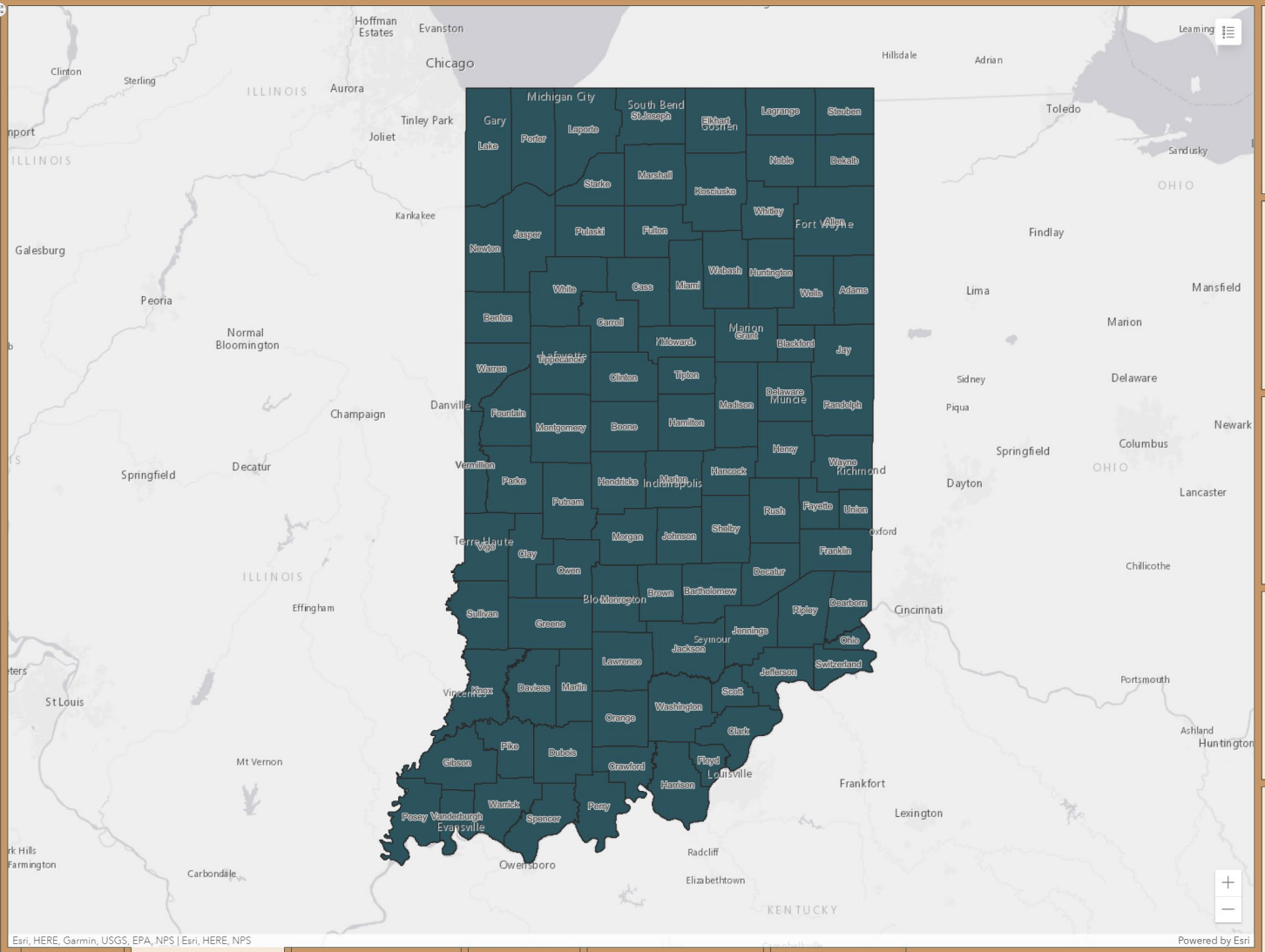
County boundary layer:
https://gisdata.in.gov/server/rest/services/Hosted/County_Boundaries_of_Indiana_2021/FeatureServer

Administrative boundaries:
https://gisdata.in.gov/server/rest/services/Hosted/Administrative_Boundaries_of_Indiana_2021/FeatureServer

Geocoder:
https://gisdata.in.gov/server/rest/services/Geocode/State_Geocoder_WGS84/GeocodeServer

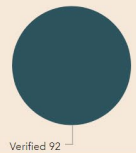
For additional information about the 2021 Data Harvest, please visit https://www.in.gov/gis/data-sharing.

**2020 Data Harvest**
To obtain information about the 2020 Data Harvest and download data, please go to the 2020 Data Harvest Dashboard.



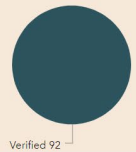

Resulting Data | Status of Address Points | Status of Street Centerlines | Status of Parcels | Status of County Boundaries | Status of Boundaries

Address Points Status

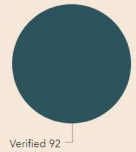



Street Centerlines Status

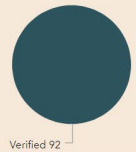
Parcels Status




Boundaries Status




County Boundary Status



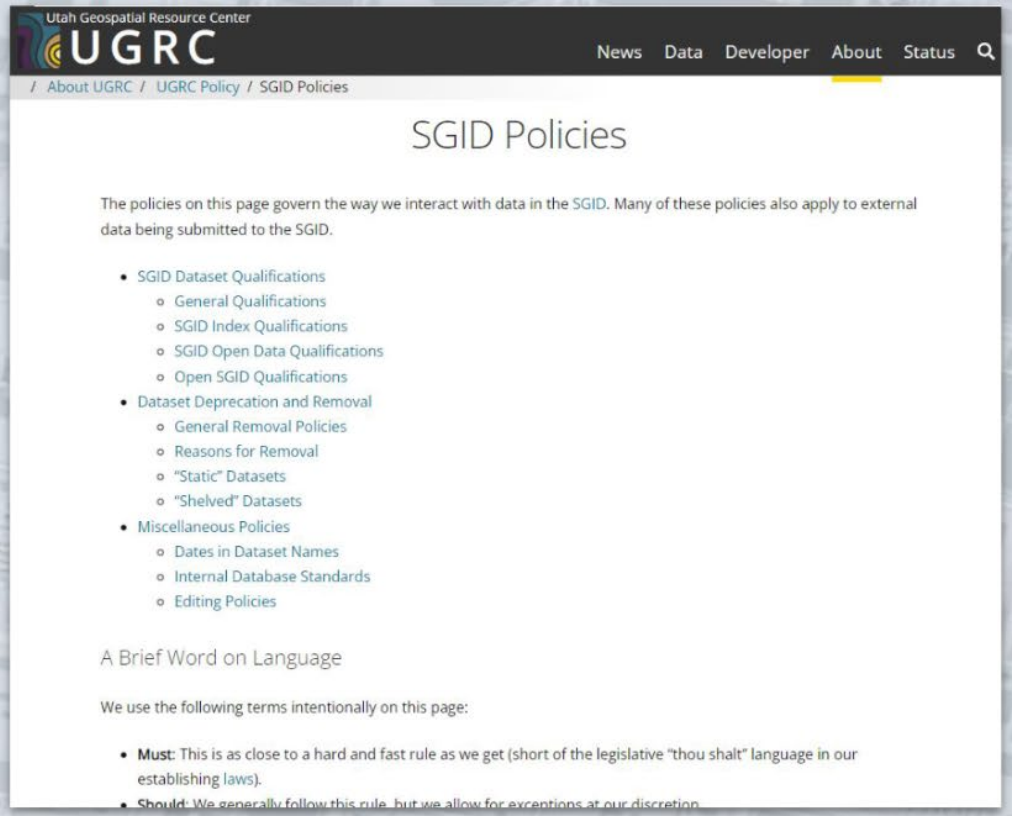
# Role-Models in the Nation

**SGID governance provided by:**

UGRC
Utah Geospatial Resource Center

Policies and procedures

gis.utah.gov/about/policy/sgid



Utah Geospatial Resource Center
UGRC
News Data Developer About Status
/ About UGRC / UGRC Policy / SGID Policies

SGID Policies

The policies on this page govern the way we interact with data in the SGID. Many of these policies also apply to external data being submitted to the SGID.

- SGID Dataset Qualifications
  - General Qualifications
  - SGID Index Qualifications
  - SGID Open Data Qualifications
  - Open SGID Qualifications
- Dataset Deprecation and Removal
  - General Removal Policies
  - Reasons for Removal
  - "Static" Datasets
  - "Shelved" Datasets
- Miscellaneous Policies
  - Dates in Dataset Names
  - Internal Database Standards
  - Editing Policies

A Brief Word on Language

We use the following terms intentionally on this page:

- **Must:** This is as close to a hard and fast rule as we get (short of the legislative "thou shalt" language in our establishing laws).
- **Should:** We generally follow this rule, but we allow for exceptions at our discretion.

# Role-Models in the Nation

## SGID governance provided by:

UGRC
Utah Geospatial Resource Center

- Policies and procedures
- Automation & process tools

**Auditor**
checks AGOL feature service items
github.com/agrc/auditor

**Porter**
tracks additions, replacements, deletions
github.com/agrc/porter

**Farm to AGOL**
steward data>internal gdb>SGID
github.com/agrc/warehouse

**Cambiador**
gdb change detection
github.com/agrc/cambiador

**Sweeper**
data cleaner
github.com/agrc/sweeper

**Forklift**
slinging data to and fro since 2015
github.com/agrc/forklift

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# Role-Models in the Nation

## Data Rating Systems

UGRC Utah Geospatial Resource Center

### Nine Metrics for Measuring Data

**Authoritative**
- "Statewide authoritative" - *Would the steward promote this data?*

**Business Systems**
- *Is this layer used in state business systems? Critical business systems?*

**Completeness**
- *Are there any gaps or holes in the data? Is it statewide?*

**Data quality**
- *How accurate is the attribute and geometry quality?*

**Foundational layer**
- *Is this layer a building block to build/create/derive other layers?*

**Interoperability**
- *Does the data look the same on all systems and file formats?*

**Metadata completeness**
- *Data has minimum required metadata with license and disclaimer?*

**System of Record**
- *Is this data directly mandated by statute or does it support other data or programs mandated by statute?*

**Update Schedule/Currency**
- *Does it use schedule - is it adhering to the schedule?*

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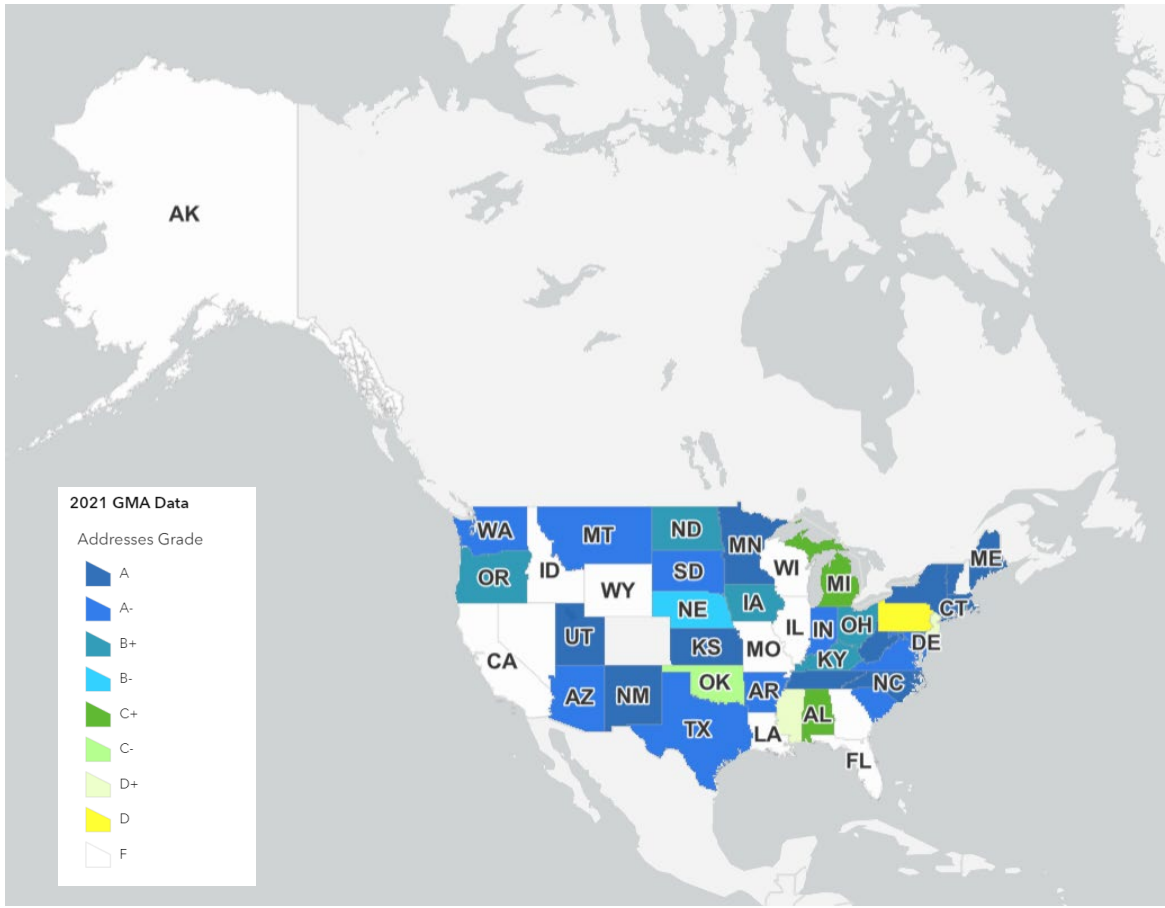
**NSGIC promotes the coordinated, impactful, and cost-efficient application of GIS and other location-based information and analytics to best serve the nation, with emphasis on the power of initiatives and public policy that connect across local, state, federal, and private sector partners.**

# NSGIC

National States Geographic Information Council




NG911 Elections Coordination Addresses Cadastre Elevation Leaf-Off Ortho Transportation Geodetic Control Gov Units Hydrography Leaf-On Ortho

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# Leadership is key to success

**« Future lies with the PEOPLE and that belief in community and recognizing the value in sharing to solve problems and make decisions »**

-- Dr. Jill Saligoe-Simmel

## Ensure YOUR voice is heard!

# Be a part of the community

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