



Megan Compton – Indiana Geographic Information Officer

Shaun Scholer – GIS Program Manager

Indiana Association of Floodplain and Stormwater Management (INAFSM)

September 14, 2022



Speakers

Megan Compton

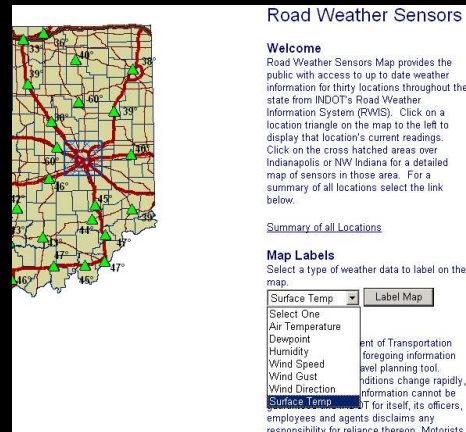
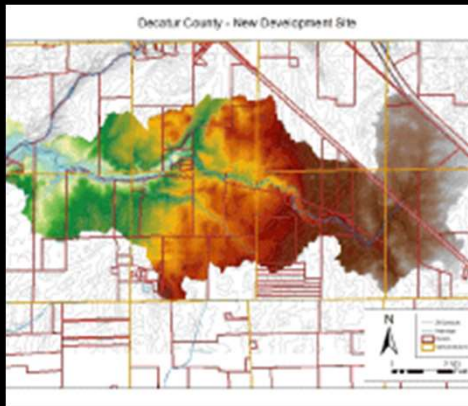
Indiana Geographic Information Officer

Shaun Scholer

GIS Program Manager



Why GIS?



- Where is the weather causing hazardous driving conditions?
- Where in Indiana are parcels of land that would be perfect for a new facility?
- After an event, where should damage response efforts focus?



Next Generation of the (Geo) Space Force

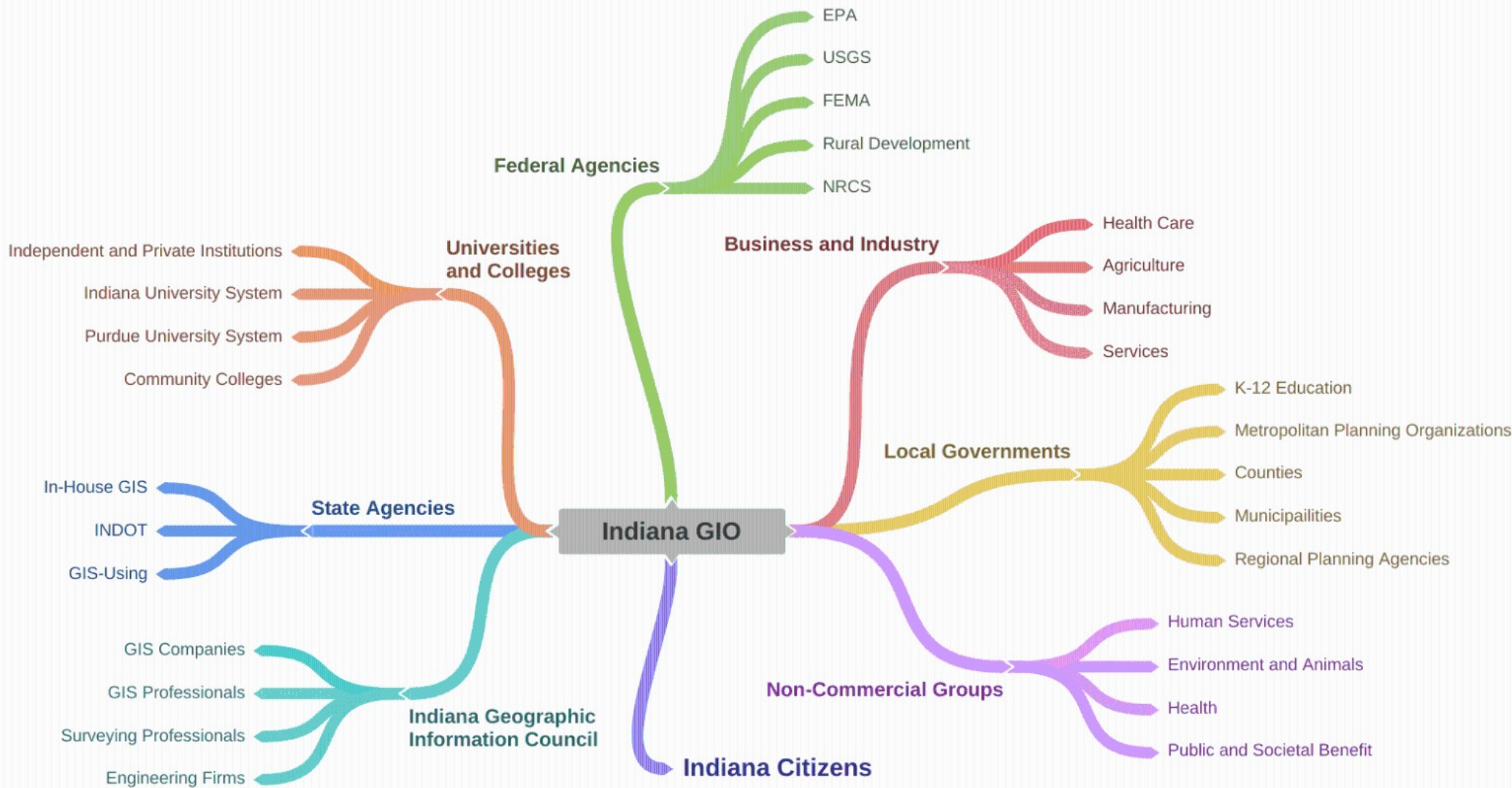
5-Year GIO Strategic Plan

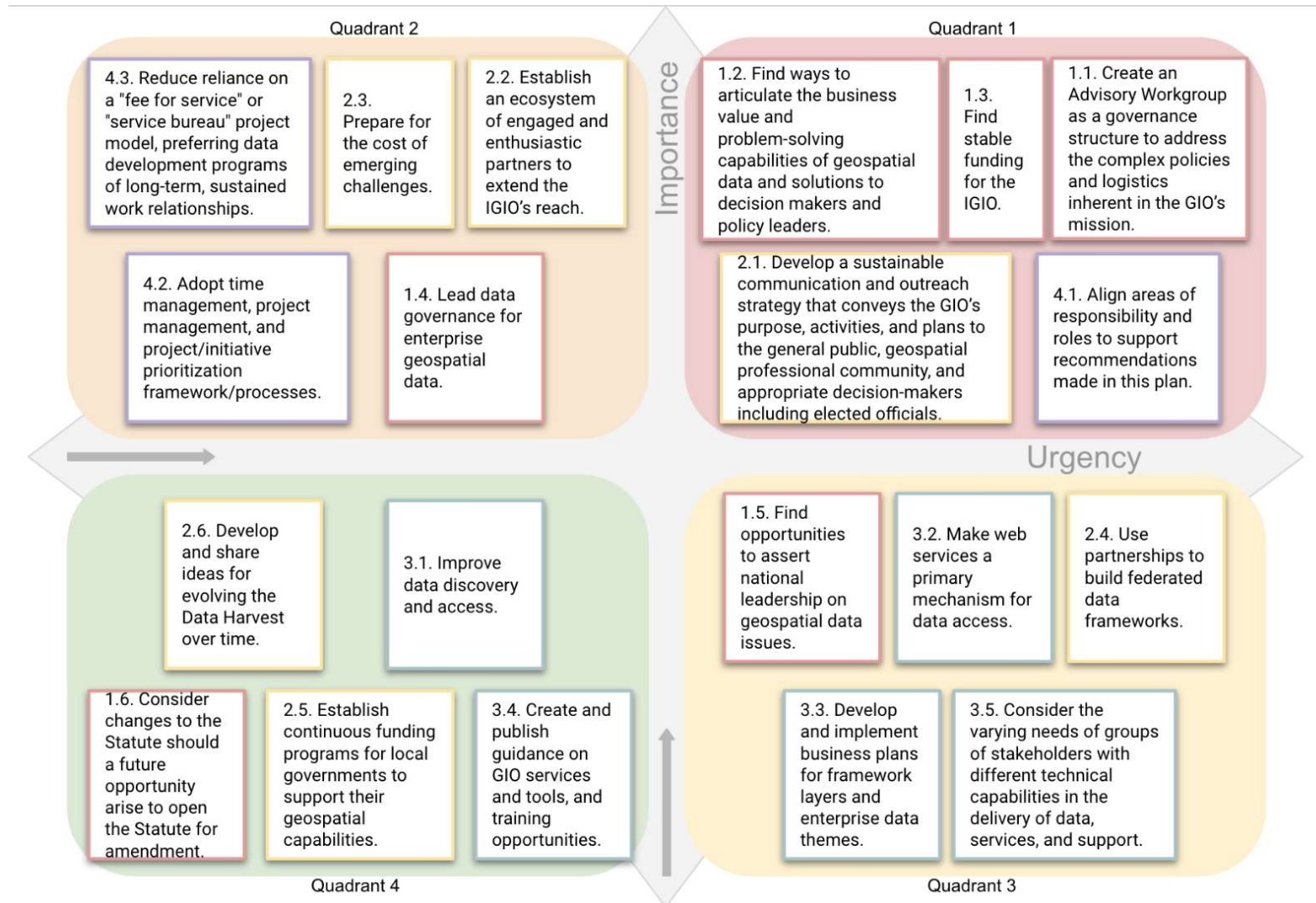
For the Indiana Geographic Information Office

March 9, 2022

The plan is nothing... Planning is everything
- Winston Churchill







Spinning plates and platforms



Cloud infrastructure



Capacity



Scalability



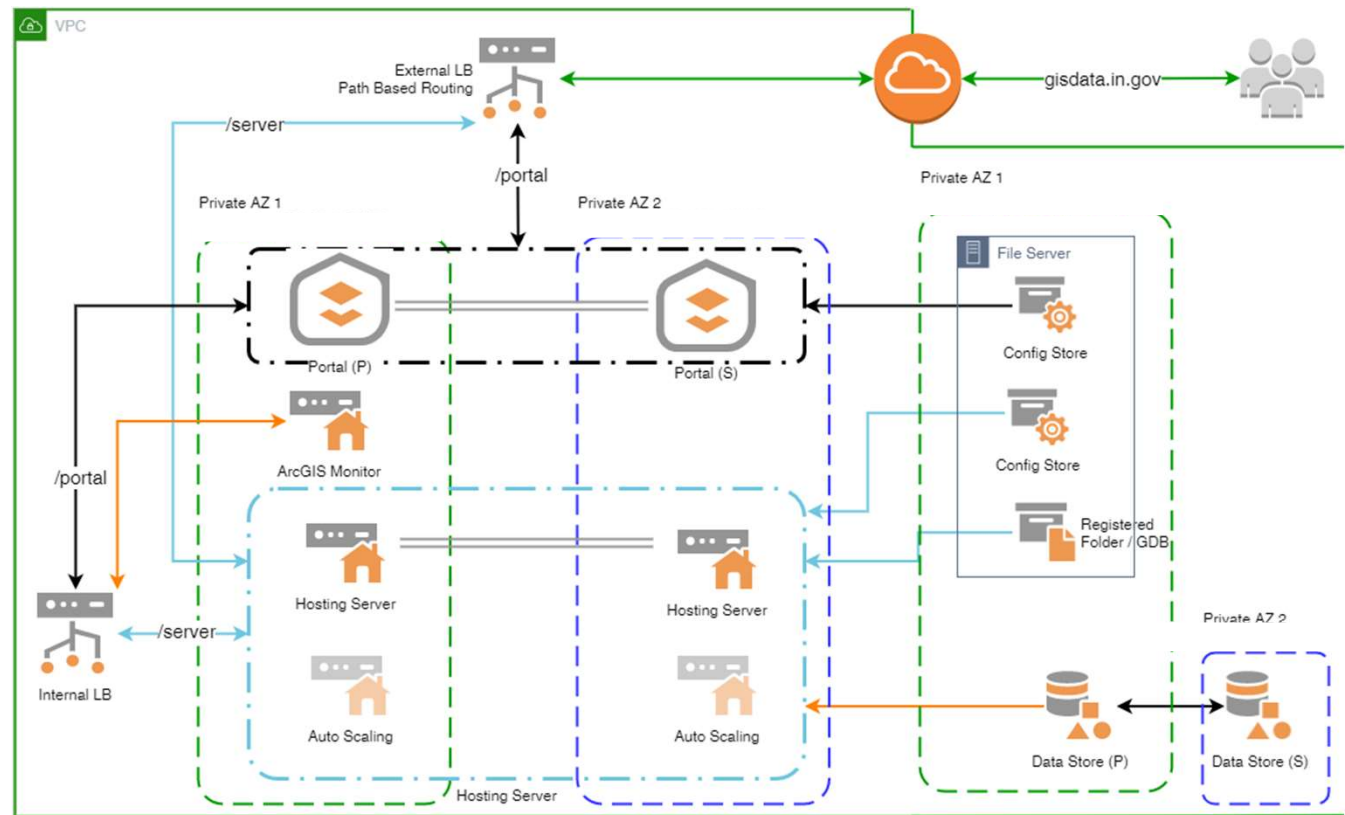
Accessibility



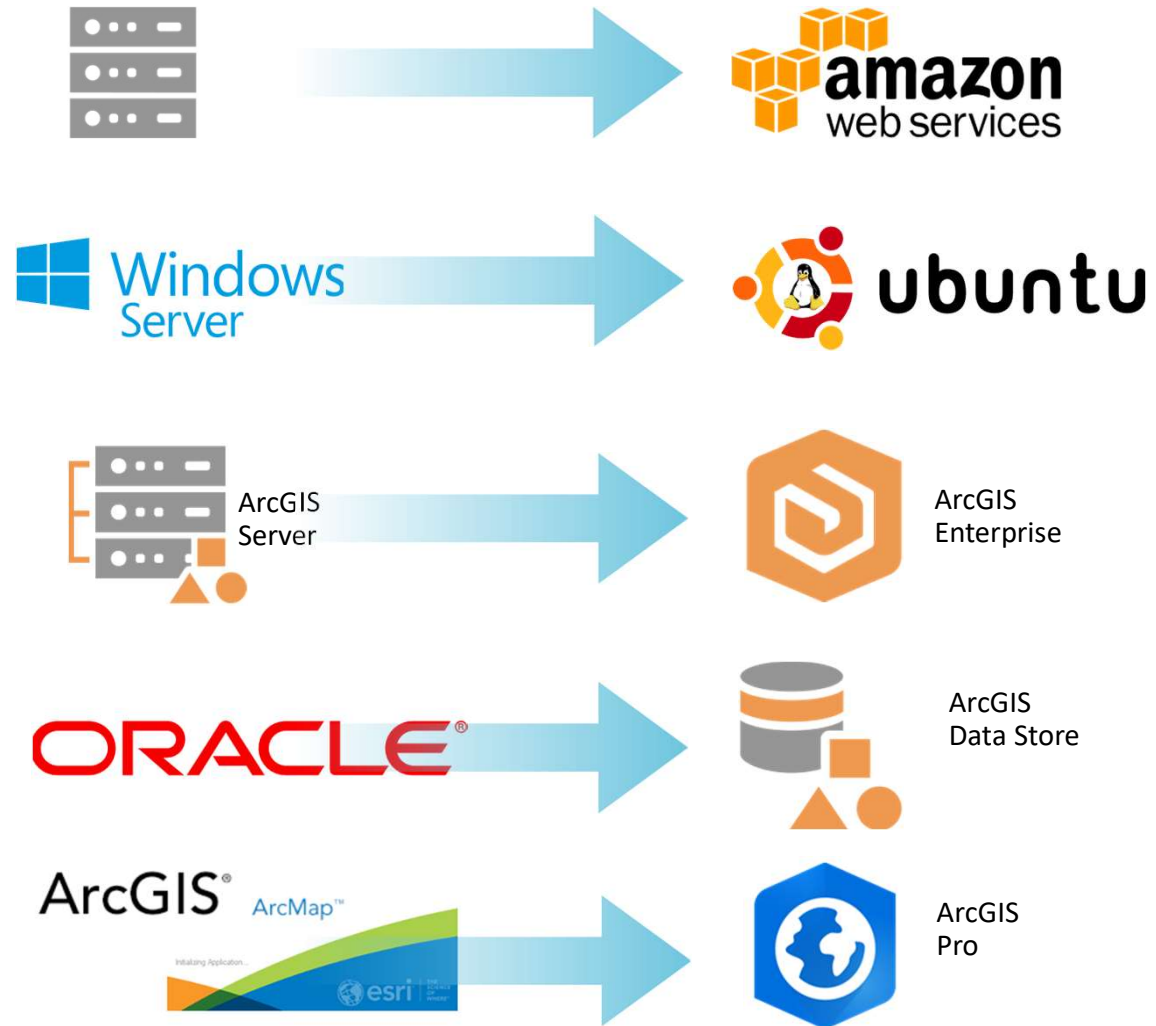
Performance

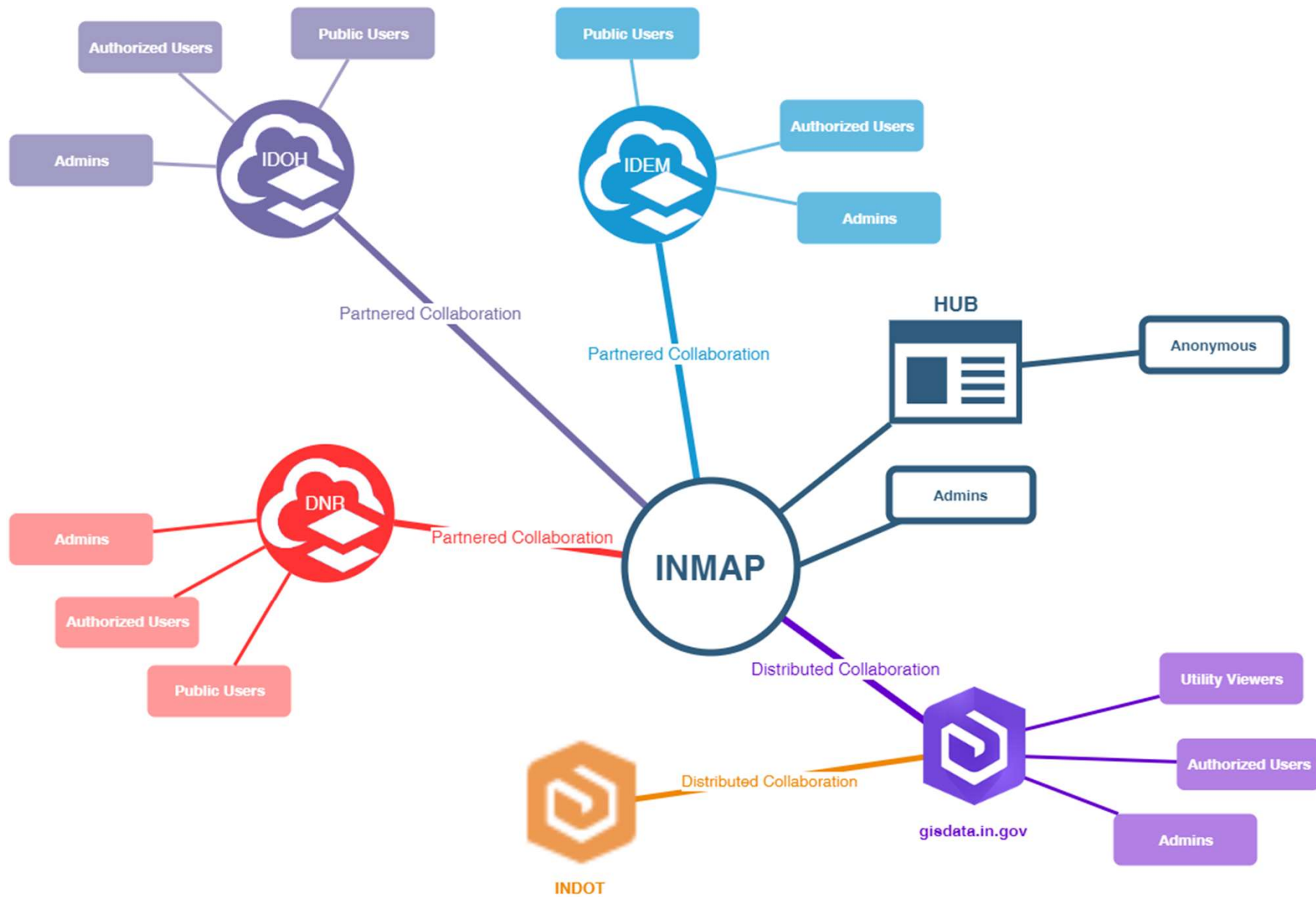


Security

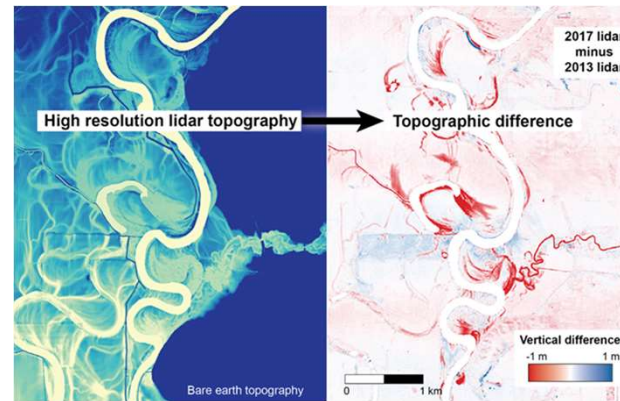


Objects in motion





What is next



LiDAR

Collaborative Editing



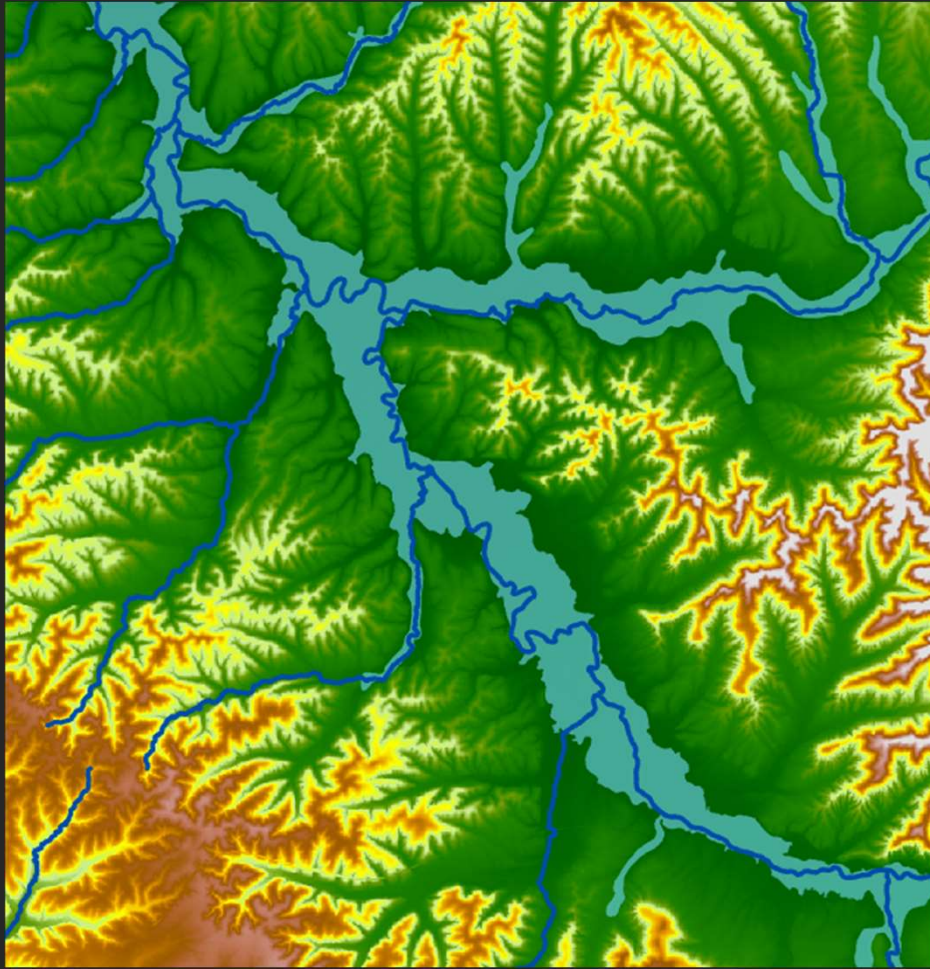
Cloud-Optimized Data





Orthoimagery and Lidar Programs

- 6-inch Orthoimagery - 4-Band (R,G,B, NIR)
- USGS QL2 3DEP Lidar

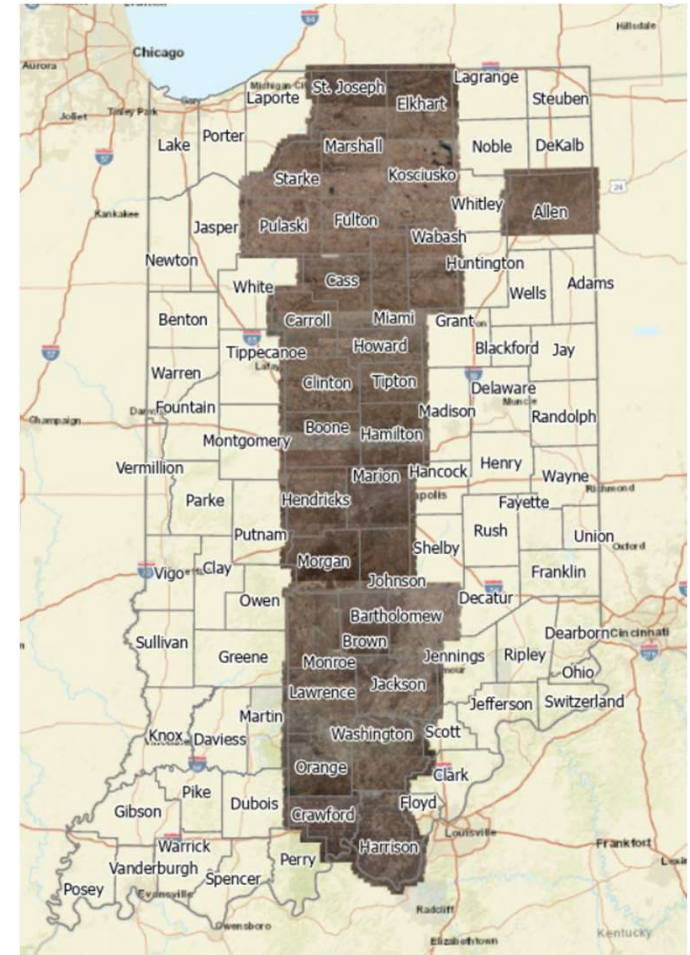


Matt Rummel - Christopher Burke Engineering

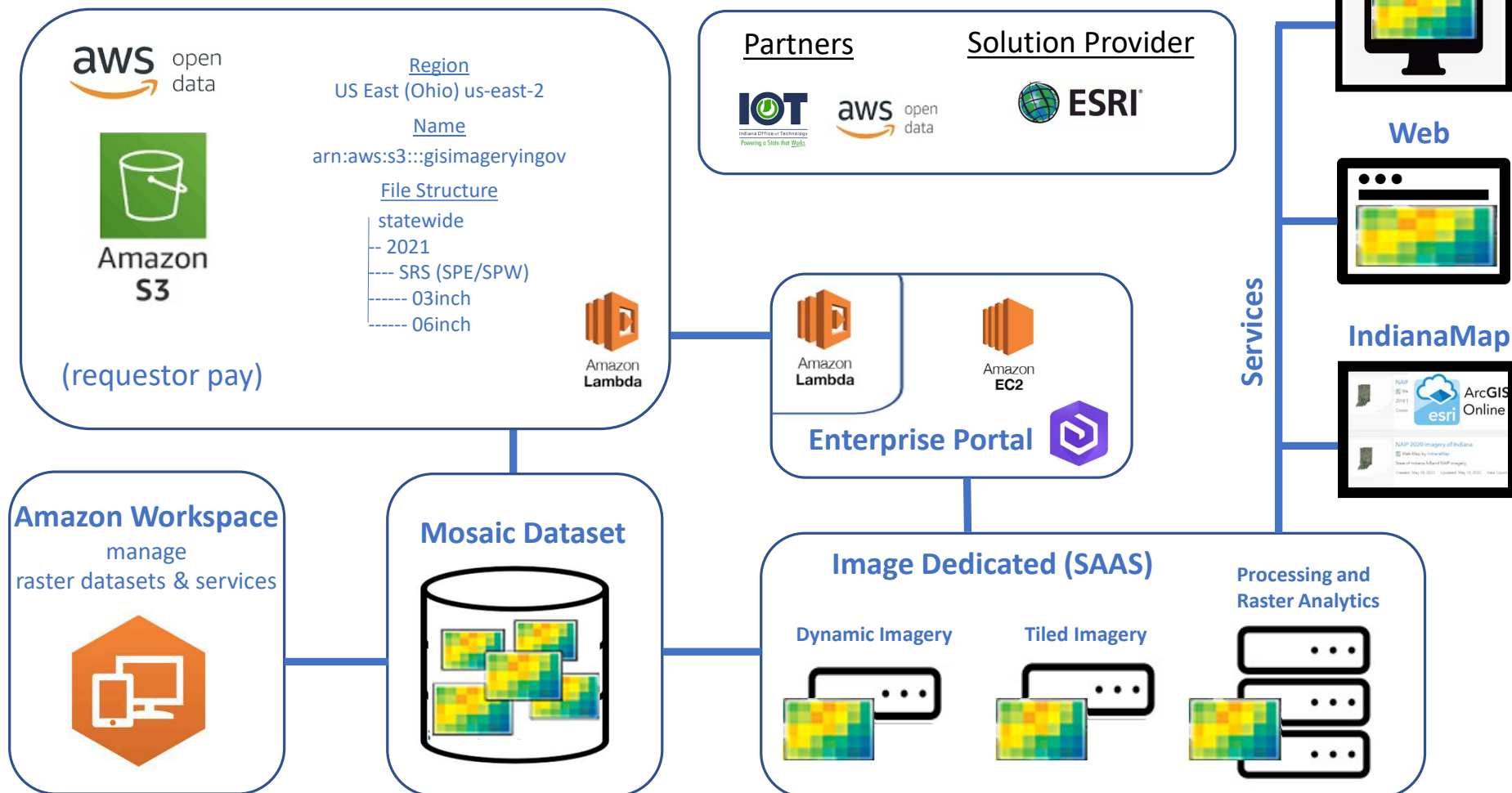
Indiana Statewide Orthoimagery Program

- 2021-2024 Ortho – 6”
- 2016-2019 Ortho – 1’
- 2011-2014 Ortho – 1’
- 2005-2006 Ortho - 1’

2023 2021 2022



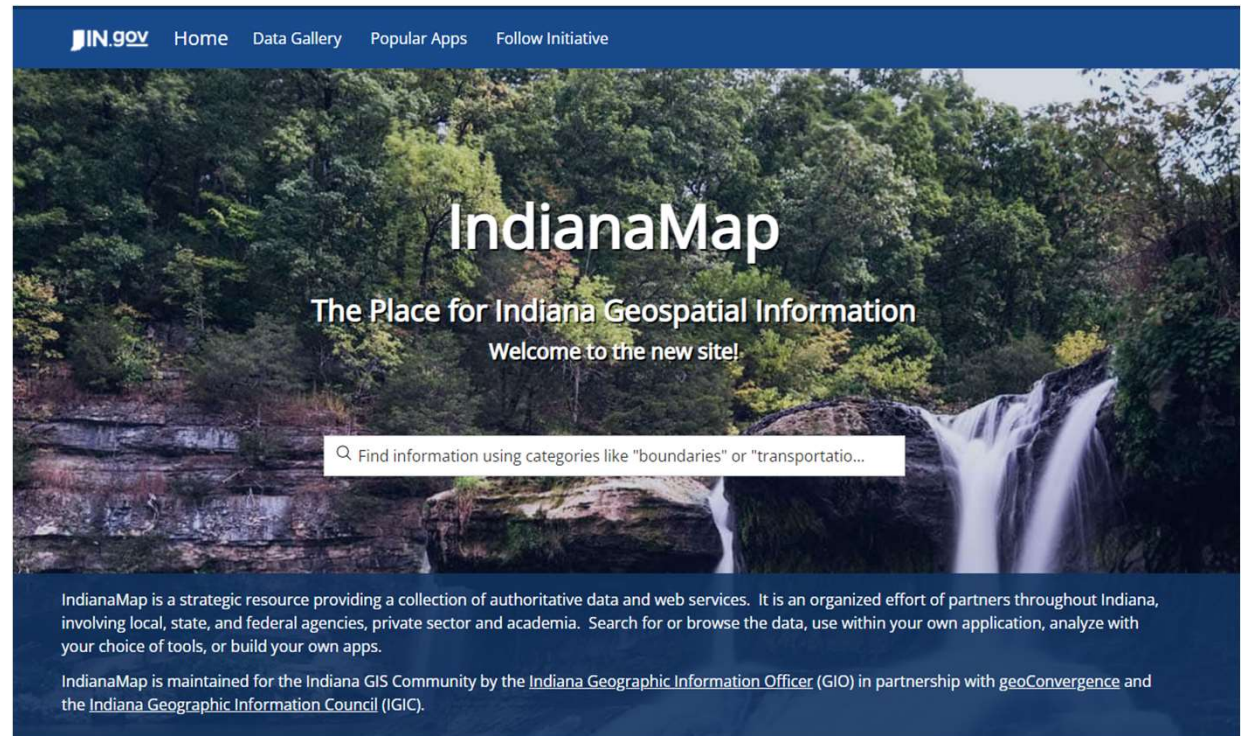
Indiana's Image Service Deployment



Data from the Indiana GIO has been invaluable in our efforts to map floods. In 2020, working with **DNR**, we developed a new process to determine the **risk of flood** on a structure basis. To do so, we created building footprints using the **lidar** data collected from 2016 through 2020. We used the **Best Available Imagery** service from the GIO to QA/QC the lidar-generated **building footprints**. Then determined the lowest adjacent grade (**LAG**) for each structure. The LAG was used in combination with **flood elevation points** to determine the risk of flooding for each structure near a stream. We could not have accomplished this project without the data provided by the GIO.

~ Marianne Cardwell – The Polis Center





IndianaMap

New Frontier of the Open Data Collaborative



IN 92x Home

County Boundaries of Indiana 2021

IndianaMap GIO
IndianaMap

Summary

This data set was developed to provide accurate framework data (including address points, street centerlines, land parcels, and governmental boundaries) for Indiana, as part of the Indiana Data Sharing Initiative (DSI) of the Indiana Geographic Information Office (IGIO).

[View Full Details](#)

Details

- Dataset**
Feature Layer
- May 23, 2022**
Info Updated
- May 23, 2022**
Data Updated
- May 17, 2022**
Published Date
- 92 Records**
[View data table](#)
- Public**
Anyone can see this content
- No License Provided**
Request permission to use

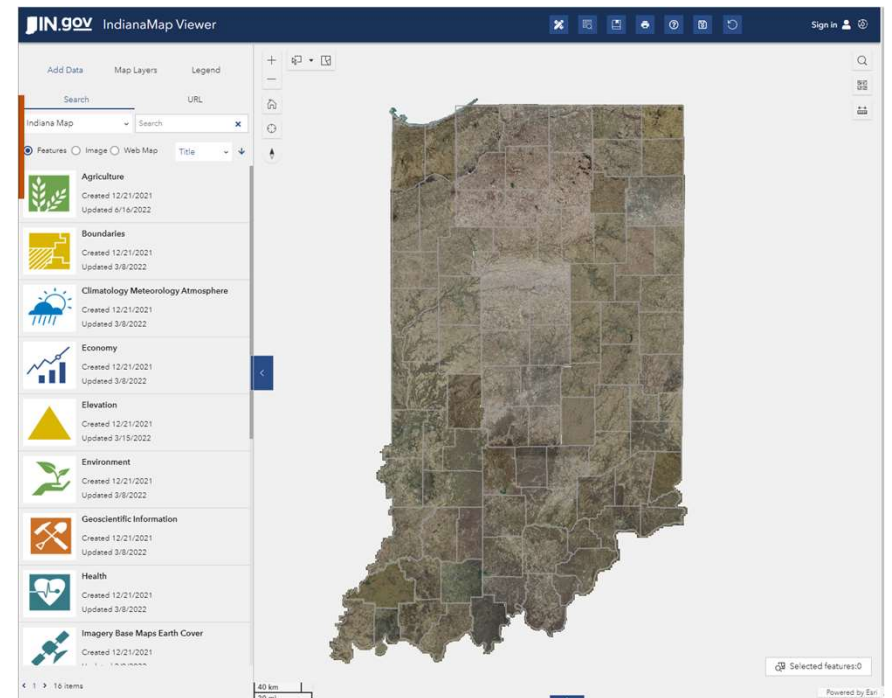
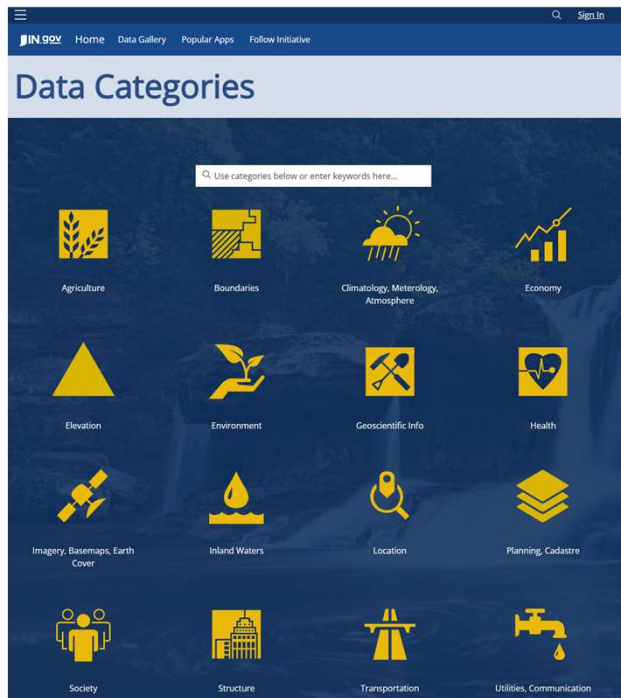
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Boundary Globally Unique ID	
Local Identifier	1
SOURCE_DATADESC	COUNTY_BOUNDARY
SOURCE_DATASETID	COUNTY_BOUNDARY
SOURCE_FEATUREID	1
SOURCE_ORIGINATOR	DELAWARE COUNTY
LOADDATE	October 4, 2021
COUNTY_FIPS	18035
COUNTY_ID	18
SHAPE__length	128531.47426140356
SHAPE__Area	1024741222.4290103

[Zoom to](#)

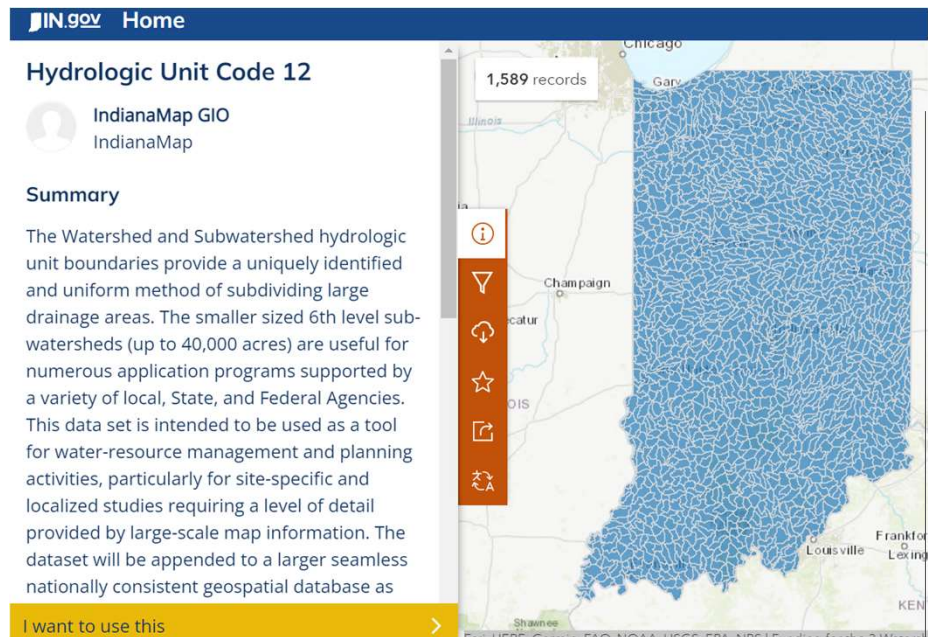
[I want to use this](#)

Esri HERE Garmin FAO USGS EPA NPS

Who can make a map?

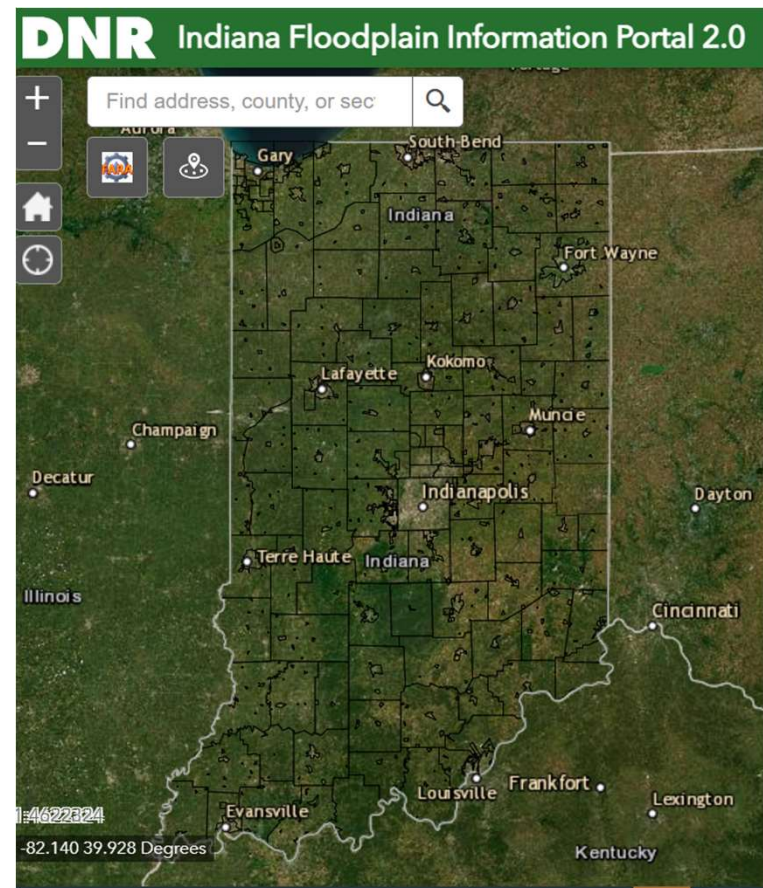


How –IndianaMap



The statewide **LiDAR** and **NHD** datasets developed by the GIO's office are invaluable for the creation of accurate, **comprehensive floodplain mapping**, among other applications within the **DNR Division of Water**. Utilizing this data helps **reduce the number of lives at risk and property damage**.

David Knipe – IDNR Division of Water



2022 Indiana Data Sharing Dashboard

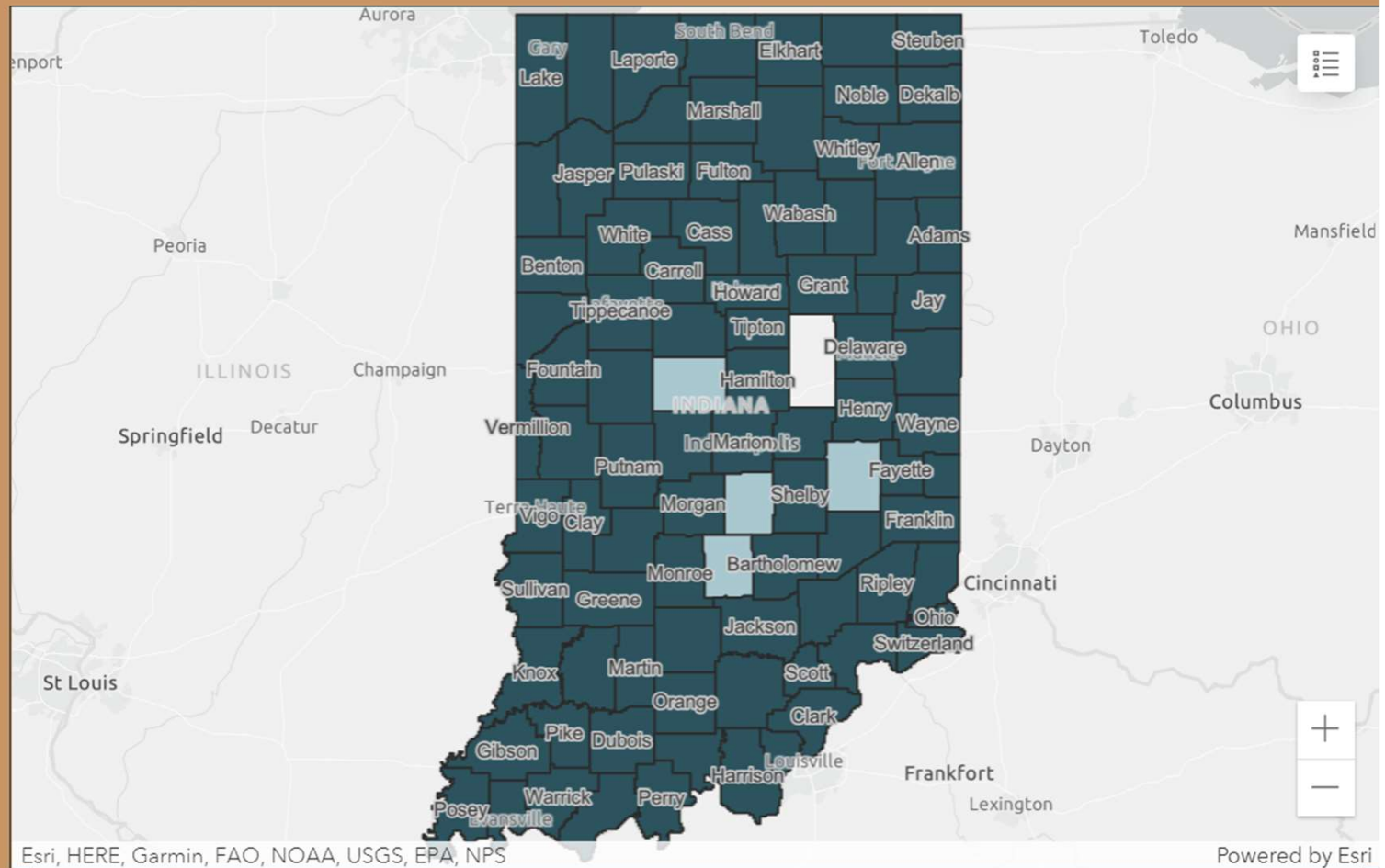


The 2022 Indiana Data Harvest program will kick off on August 1, 2022. To learn more about this year's efforts, we encourage you to attend the **2022 Data Harvest webinar on Wednesday July 27, 2022**. Click [here](#) to sign up.

This year's data requirements (Excel spreadsheet and file geodatabase template) are available [here](#).

To learn more about the Indiana Geographic Information Office's annual data sharing efforts, please visit <https://www.in.gov/gis/data-sharing/>.

2021 Data Harvest




Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS

Powered by Esri

Status of Parcels

Addresses - Road Centerlines - Parcels - Administrative Boundaries



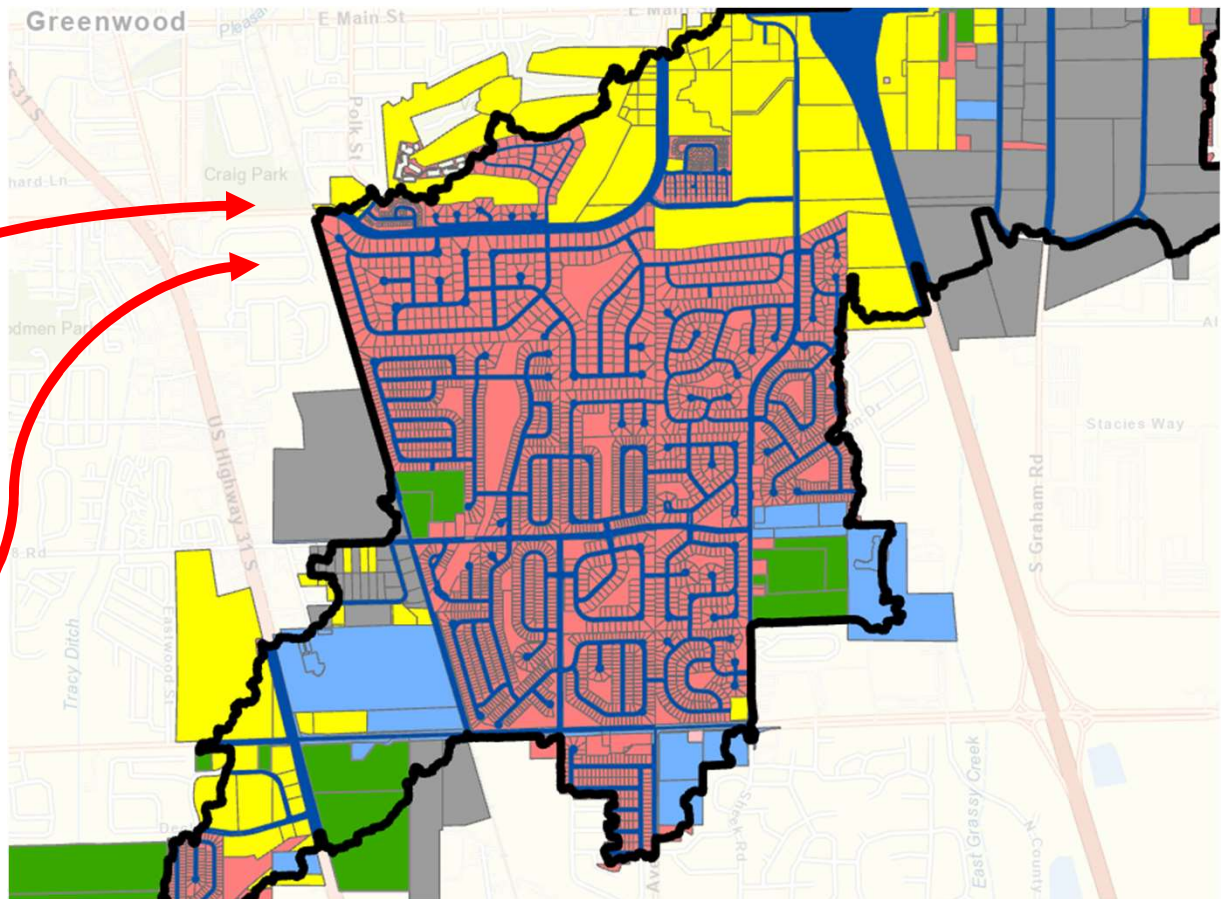
GIS DATA HARVEST PROGRAM

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



County Contacts for GIS



Indiana GIS Contacts

Search: Please Enter Keyword

Name: Josh Shriver
Phone: 5742232909
Email: jshriver@co.fulton.in.us

Fulton County

Department/Agency: Planning
Title: GIS Director
Name: Josh Shriver
Phone: 5742232909
Email: jshriver@co.fulton.in.us

Fulton County

Department/Agency: Surveyors
Office
Title: GIS Director
Name: Seth White
Phone: 5742232909
Email: surveyor@co.fulton.in.us

Pulaski County

Department/Agency: IT Director
Title: IT Director
Name: R.B. Walters
Phone: 5742429120
Email: rdirector@pulaskicounty.in.gov

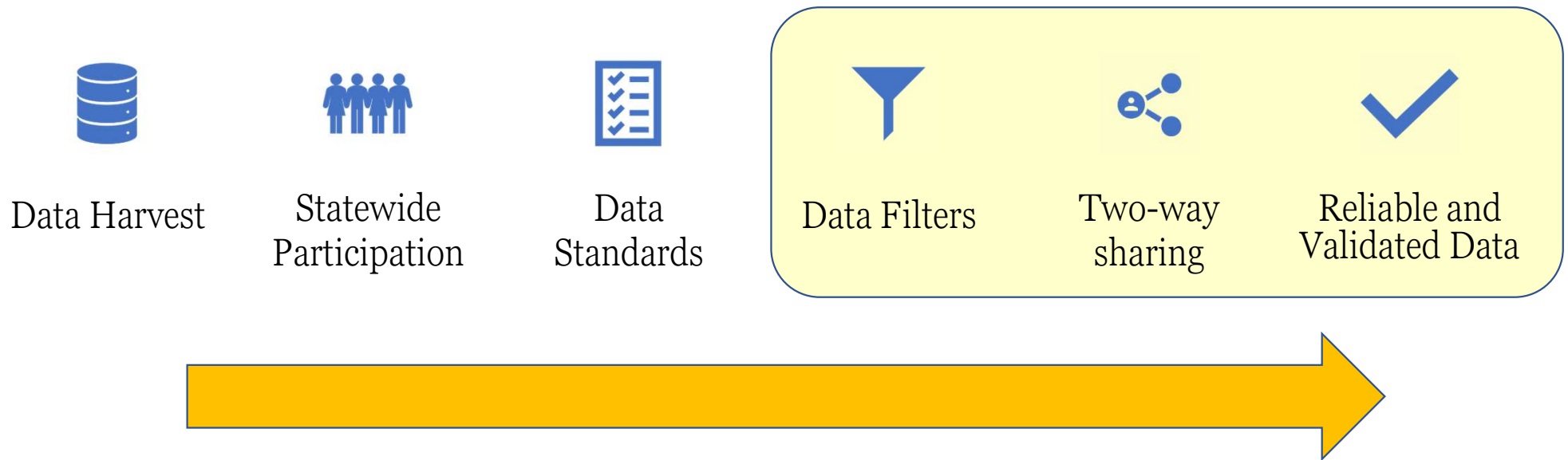
Wabash County

Department/Agency: GIS Director
Title: GIS Director
Name: Mike Howard
Phone: 2605630661
Email: plandirector@wabashcounty.in.gov

Huntington County

Department/Agency: GIS/IT Technician
Title: GIS/IT Technician
Name: Nathan Strine

Map of Indiana showing county boundaries and names.



The Roadmap for Data Sharing and Improvement

What is next - Seamless data integration



- Local to state data flow
- Collaborative editing
- Cloud optimized data
- Image Services
- User support

State Agency and Program Efforts

Elections Commission

Economic Development Corporation

Dept of Transportation

Open Data

Secretary of State

Dept of Environmental Management

Dept of Agriculture

National 9-1-1 Framework

Dept of Revenue

Dept of Workforce Development

Dept of Health

National Address Database

Dept of Natural Resources

Integrated Public Safety Commission

Office of Technology

Census

Dept of Education

Office of Community & Rural Affairs

Management & Performance Hub

Broadband

Homeland Security

Legislative Services Agency

Bureau of Motor Vehicles

GPS & Wayfinding

State Police

Family and Social Services Admin

Dept Local Government Finance

State 9-1-1 Board

Utility & Regulatory Commission

Dept Child Services



As a GIS consultant, I need data from all over the state at any given time. Thanks to the **data harvest** and **IndianaMap** I can get the base layers I need to perform a wide range of analysis projects at a moment's notice. I can have the **parcel, elevation, and hydrography data** I need to find the property owners who would be impacted by a **flood event**, I can help counties update their **emergency response plans**, and I can help supply information for **disaster recovery projects** all because the central pieces of data for all of these projects are available to me **anytime** I need them.

Philip Bernard -
Frontier Geospatial





November 15, 2022 - Indianapolis

Helpful links

- [IndianaMap](#) – State open data site
- [Indiana Open Data Viewer](#) (making online maps for no cost)
- [Indiana Ortho and Lidar](#) – most recent imagery and lidar data for download
- [DNR Floodplain Mapping Portal](#)
- [IDEM What is in my neighborhood](#) – example of an online application using location information and state data

- [Indiana 2022 Statewide Data Harvest](#) – collection of parcels, addresses, roads and boundaries (annual collection)



<http://www.in.gov/gis>

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Indiana GIO Hub site

