

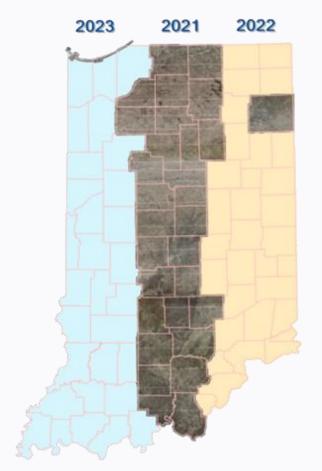
Indiana Statewide Imagery Programs - Base

• 2021-2024 Ortho – 6"

• 2016-2019 Ortho – 1'

• 2011-2014 Ortho – 1'

• 2005-2006 Ortho - 1'





Indiana Statewide Program - Specification

Base Products

- 6-inch (15-cm) pixel resolution
- Tile 4 -Band (R,G,B, NIR) imagery
 - GeoTIFF uncompressed
 - ECW & MrSID compressed
- County mosaic MrSID 3-Band





Buy-Ups

Flexible statewide contract allows for state and local government to decide:

- Higher resolution imagery
- More frequent imagery
- Other products (ex. elevation contours)

All products shared with the State





Stakeholders

Dept of Economic Dept of Dept of Homeland **State Police** Development Natural Transportation Security Revenue Corporation Resources Utility & Dept of Integrated Office of Dept of Community & Dept of Health Environmental **Public Safety** Regulatory Agriculture **Rural Affairs** Commission | Management Commission **Dept Local** Local Engineering Survey Archeology Broadband Government Companies Firms Governments Finance Universities 811 Utilities Research

Why Statewide Imagery

"State imagery has been invaluable to our organization."

"Having aerial photography available gives police, fire, and EMS people a visual understanding of their surroundings and situational awareness."

"Statewide projects have helped fill in the gaps for years we might have not flown otherwise."



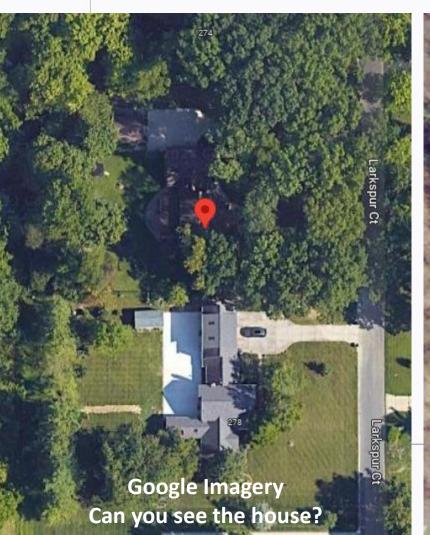
Imagery is Authoritative

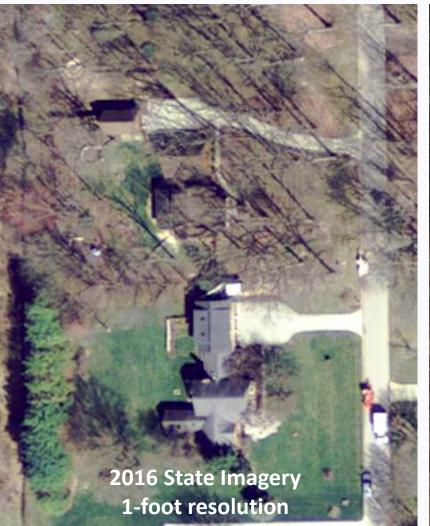


- Defined resolution
- Known accuracy
- Known time capture
- Professional-level QC verification meeting State-mandated standards and specifications



Imagery Comparison



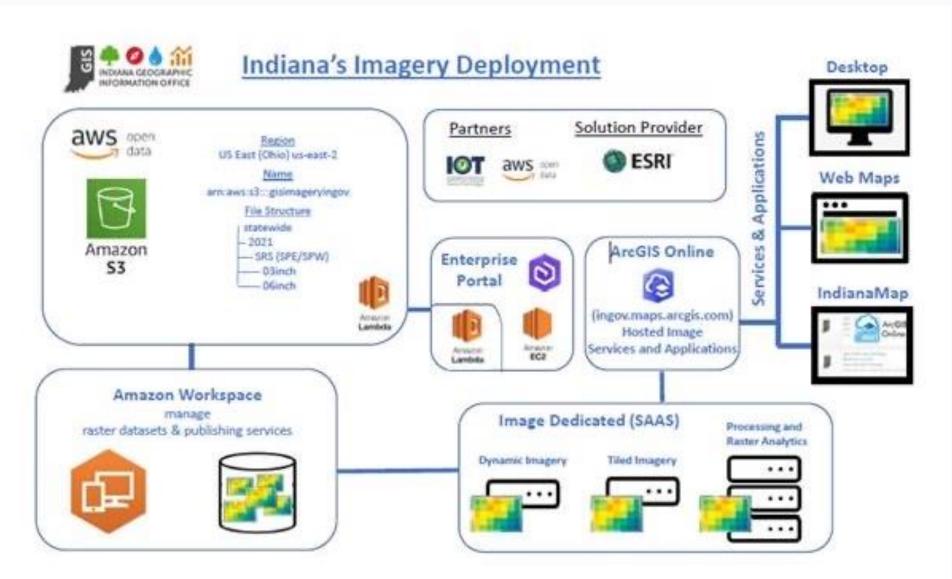




Imagery is Authoritative

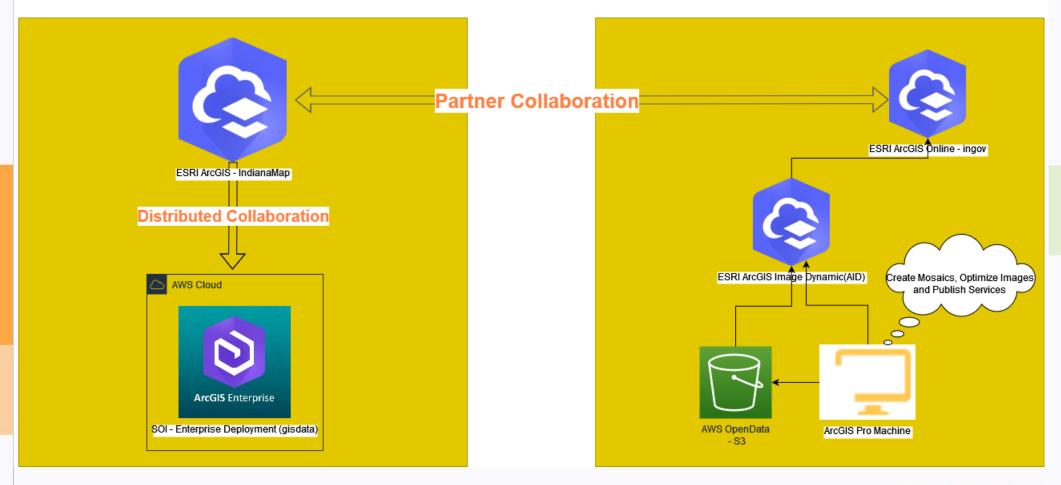








State of Indiana Imagery sharing workflow using Partner and Distributed Collaboration





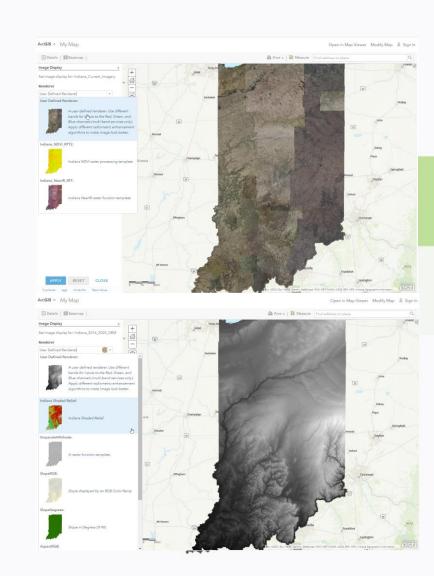
Accessing Dynamic Imagery Services

Access

- IndianaMap
- Custom Web Maps
- GIS Desktop Applications
- Rest Service

Explore Embedded Raster Functions

- Color Infrared
- Shaded Relief
- Hill Shade
- Slope



Accessing Imagery Download

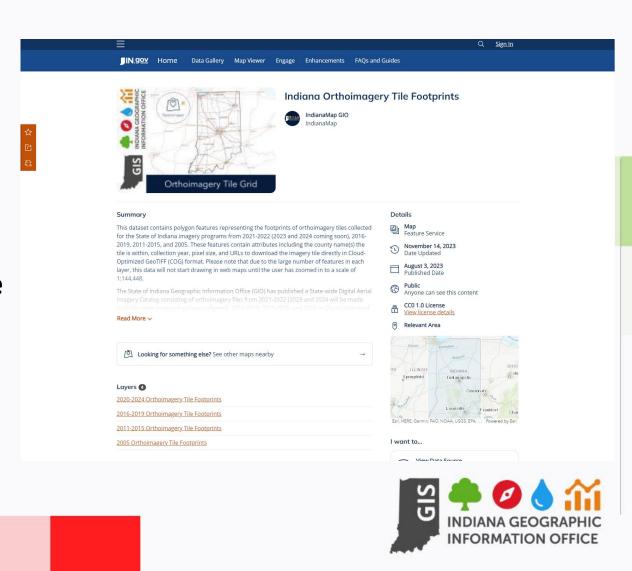
Download Cloud Optimized GeoTIFF (COG)

- All years of orthoimagery
- All years of DEM elevation

Using Footprint Feature ServiceFilter by

- Year
- Resolution
- County

Imagery tile direct from AWS



Building Footprints

- Statewide
- Generated from 2016-2020 lidar
- Nearly 4 million structures





Game changers

State partners

QA/QC INDOT Aerial Surveys Team

Engaged user base

- outreach and coordination for priorities/needs
- Non-licensed Open data!

Stable funding

- State GIS Fund in annual state appropriation
- Talk about the capabilities

GIO Imagery Program Support

- Project management
- Storage and Delivery



Coming soon

- 2025 2028 Imagery Collection (6 inch or 3 inch resolution)
- 2025 2032 Elevation collection (Quality Level 1 lidar)
- Optimized data delivery and accessibility -
 - Findable, Accessible, Interoperable, Reusable (FAIR)
 - Fit for purpose
 - Cloud optimized GeoTIFFs
 - Growing Amazon Web Service (AWS) storage
 - Expanding engagement with higher education



Key Considerations for State Imagery Program

- Collection
 - Who is going to use it, and for what purpose?
- Processing
 - QA/QC capacity and standards?
- Hosting
 - State-level centralized sharing capable of multiple sources/inputs?
- Distribution
 - Open data should be accessible
 - Education Outreach



Contact info for follow up

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Image services

https://di-ingov.img.arcgis.com/arcgis/rest/services/DynamicWebMercator