Data & Policy Analytics
CT Office of Policy and Management

CT's Geodata Portal

Exploring and Using the CT Geodata Portal

September 13, 2023

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Agenda

- Introduction
- About the GIS Office
- Geodata Portal Overview
- Finding Data on the Portal
  - Categorization
- Using data on the Portal
  - APIs
  - Downloads
- Upcoming News and Data

About the Presenter

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About the GIS Office

GIS Office & Geographic Information Officer (GIO)

OPM's Geographic Information Systems (GIS) Office was established in 2022 following the passage of Public Act 21-2 during the 2021 June Special Session.

It is directed by a Geographic Information Officer (GIO) and resides within the Data and Policy Analytics Unit of OPM.

GIS Office Responsibilities

- **GIS data coordination.** Coordinating the collection, compilation, and dissemination of GIS data across the state, including from and to state agencies, regional councils of governments, municipalities, and other constituencies;
- **Open data.** Managing a publicly accessible geospatial data clearinghouse;
- **Supporting economic development.** Using GIS to support economic development efforts in the state;
- **Outreach & training.** Provide training and outreach on the use of GIS;
- **Orthoimagery.** Administering a statewide orthoimagery and lidar program;
- **Guidance & Standards.** Adopting geospatial data standards, guidelines, and procedures;
- **Data processing.** Performing technical data processing to aggregate and organize existing datasets and create new datasets; and
- **Broadband mapping.** Develop broadband data and mapping in accordance with Public Act 21-159.

Geodata Portal Overview

CT Geodata Portal
About
Data Library
Partners
CT Geodata Portal
Search or browse GIS data for Connecticut
New & Noteworthy | CT at a Glance | Data Categories | Partners

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Geodata Portal Highlights

https://geodata.ct.gov

ArcGIS Hub based GIS Clearinghouse built in collaboration with Esri.

The Geodata Portal shares partner agency data to make it available all in one place.

The site has been live for nearly a year! Updates occur periodically.

Reviewed other states' clearinghouses and synthesized results as part of preliminary preparation work.

How did we launch with so much stuff?

- Prior to the creation of the Geodata Portal, there were several other “authoritative” state sites for GIS data.
  - CT ECO
  - DEEP
  - DOT
  - CT Open Data Portal*
- One of the stated goals and needs of the CT GIS community is to have a centralized place to find geospatial data.
- A plan to aggregate state agency data was needed.
- The CT Open Data Portal was used as a model.

* The Open Data Portal was federating to some of the existing portals, but not all.

Getting Agency Data into the Portal

Challenges to aggregation:

- Inconsistent metadata implementation (some use ISO, FGDC, etc.).
- Agencies sometimes had diverging needs and uses for the data.
- ArcGIS Online orgs needed some preparation and standardization.

Despite these challenges, the key stakeholders involved ensured the success of the effort.

Special thanks to:

- *Greg Ciparelli (DOT)*
- *Stuart DeLand (DEEP)*
- *Emily Wilson (UConn CLEAR)*
- *Pauline Zaldonis (OPM DAPA)*

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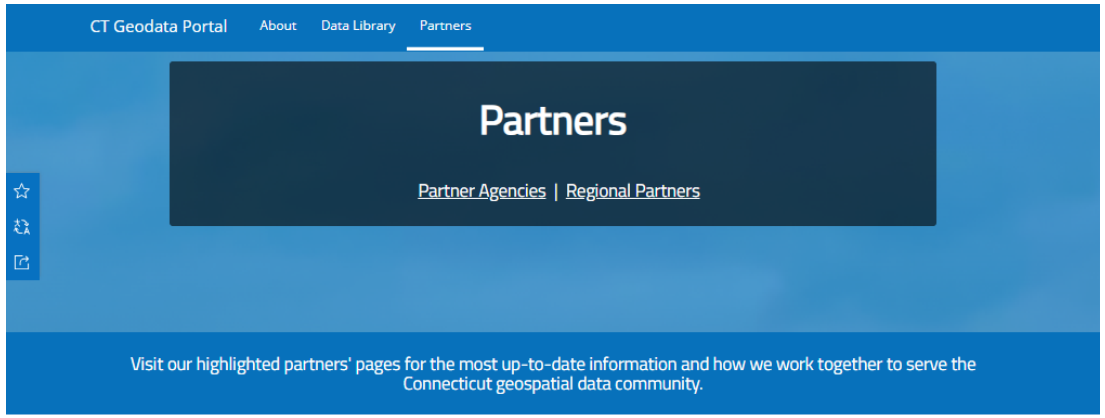
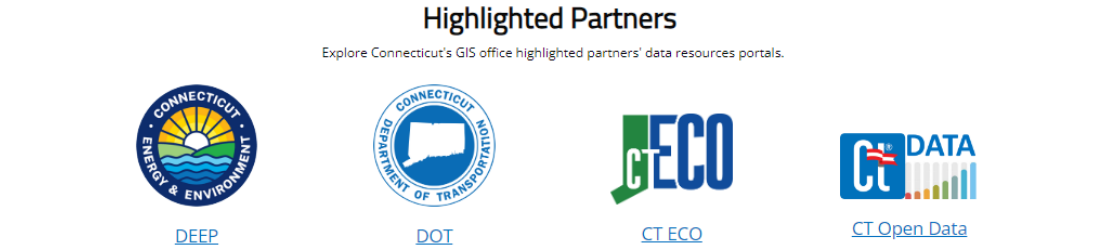
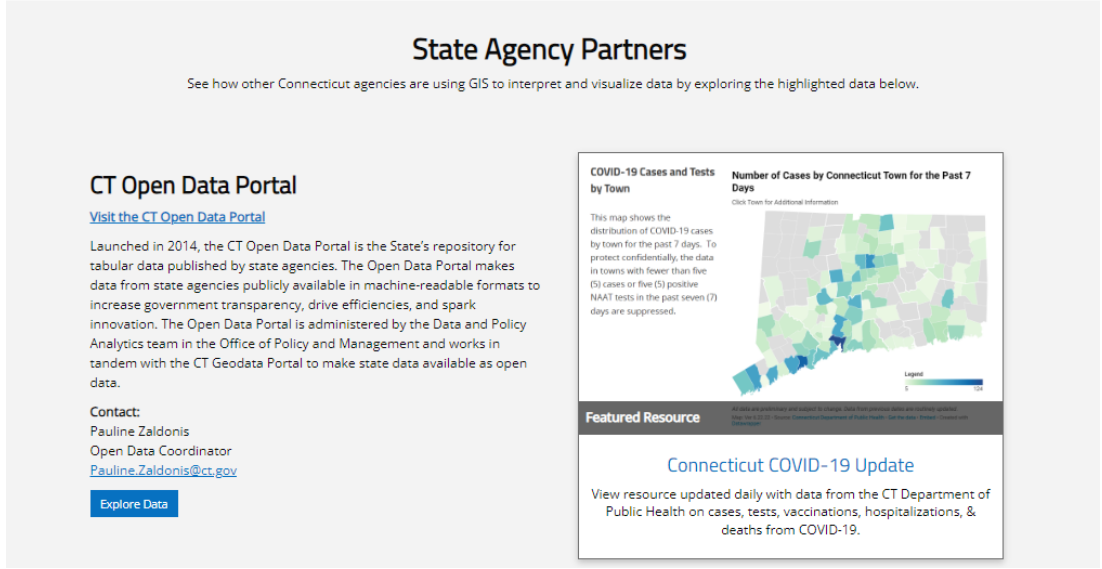
Partners Page

- A collection of links to the data portal of our data partners.
  - State Agencies
  - UConn
  - Regional Partners / COGs



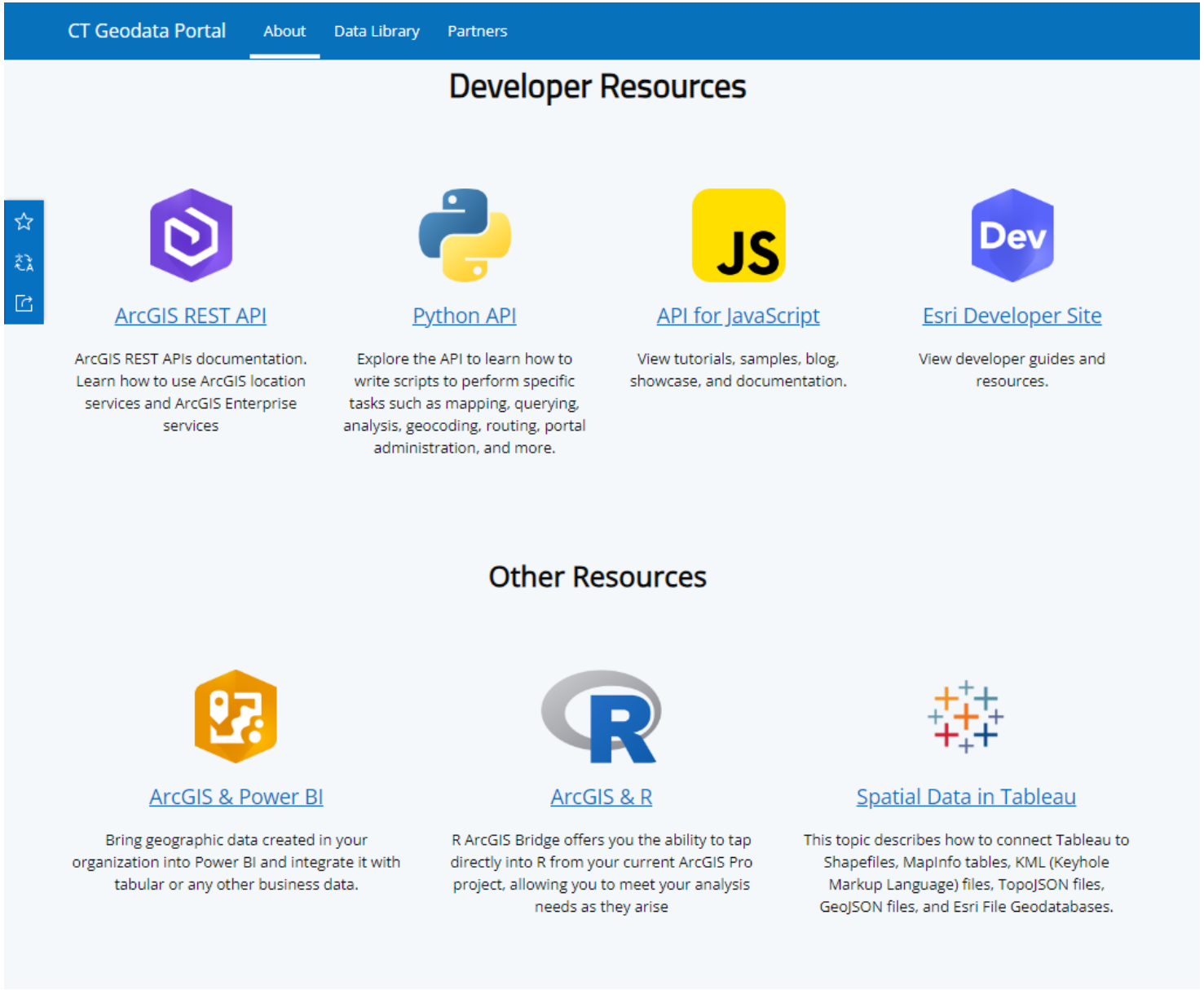




Developer and Advanced User Resources

- API resource links
- Other spatial technology resource links

- More resources to come!



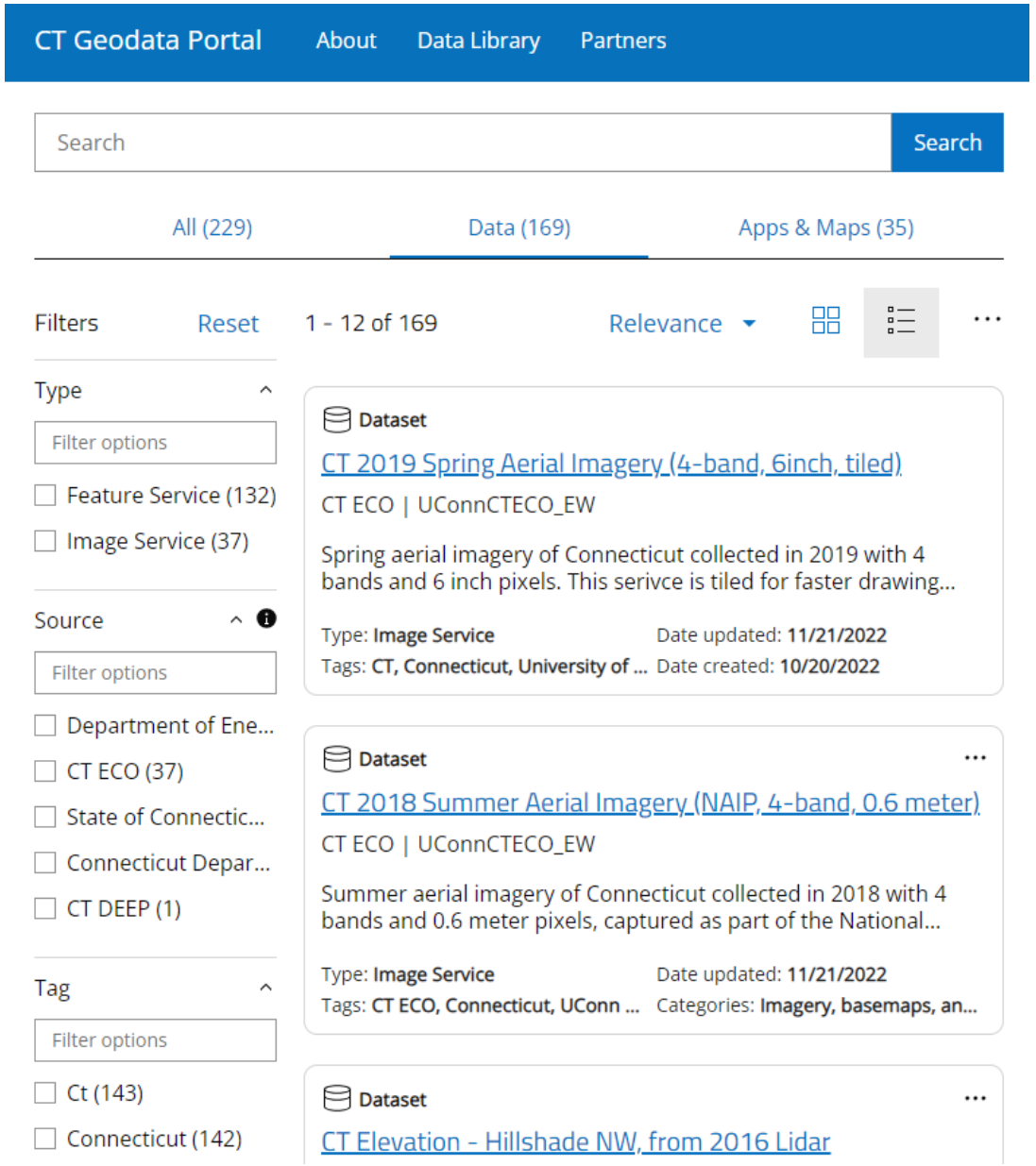
Finding Data on the Portal

Making Data on the Portal Easier to Find

Verified AGOL orgs are able to mark data as authoritative, making the data owner labels easier to understand.

Good Data Governance facilitates the following:

- Browsing data by category, agency, and type of asset (i.e. dataset, map, chart, etc.).
  - Filtering by tags is very useful, but also using systemwide categories can help enable other functionality.
  - Ensuring all datasets have clearly marked licensing terms allows end-users to understand how and when they can use the data.
  - Full data descriptions allow users to understand how the dataset was created, which can help clarify what assumptions were made in its creation.

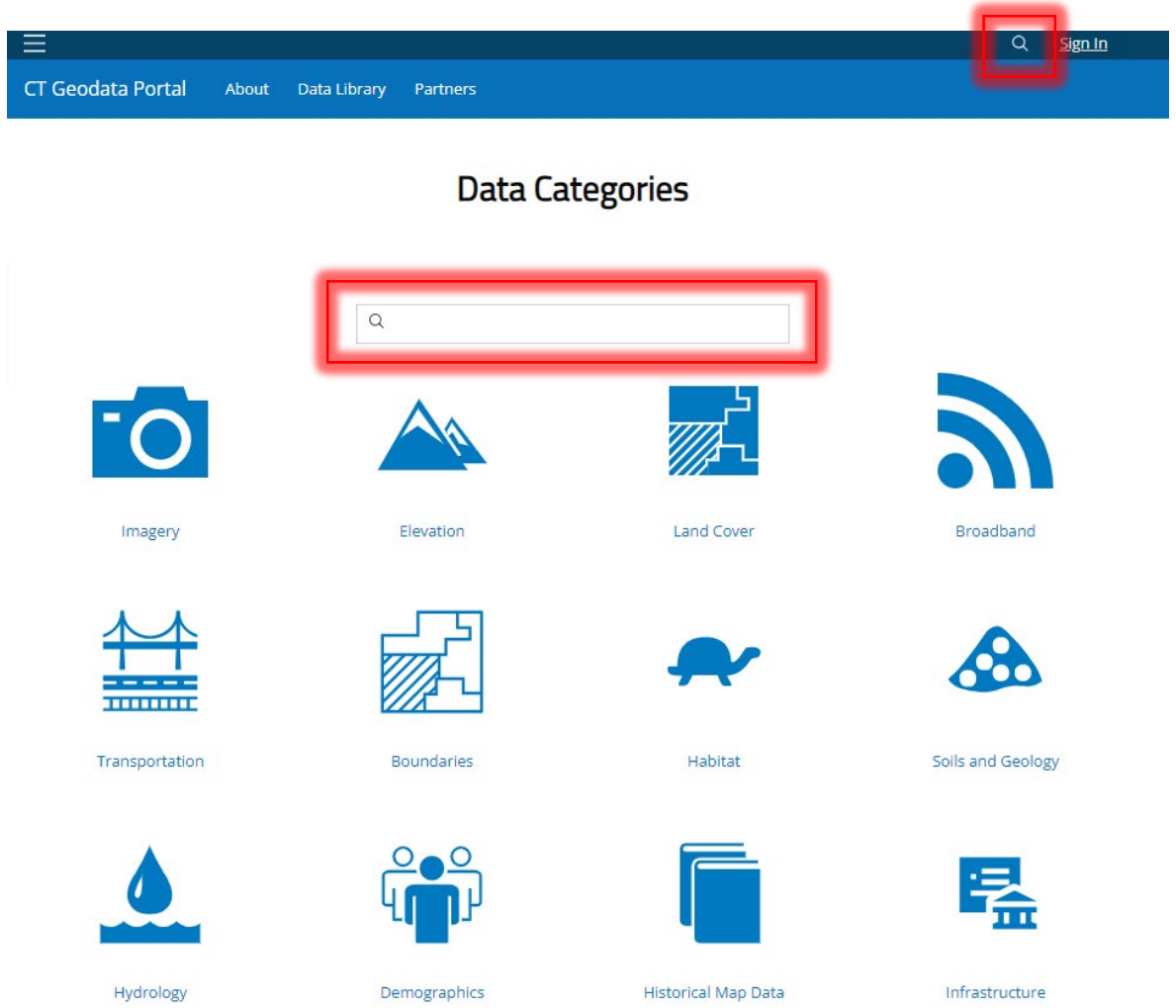


Categorization Enables Easier Data Access

By using the AGOL categories, we were able to group data by topic to make it easier to find.

This is some of the homepage behavior we enabled:

- Select one of the data categories on the home page for a filtered view of datasets and applications related to that topic.
- Search for data using the search bar on the top of the site or on the Data Categories section of the homepage.
- Search by dataset name or keyword.
- Searches content titles, descriptions, and tags.

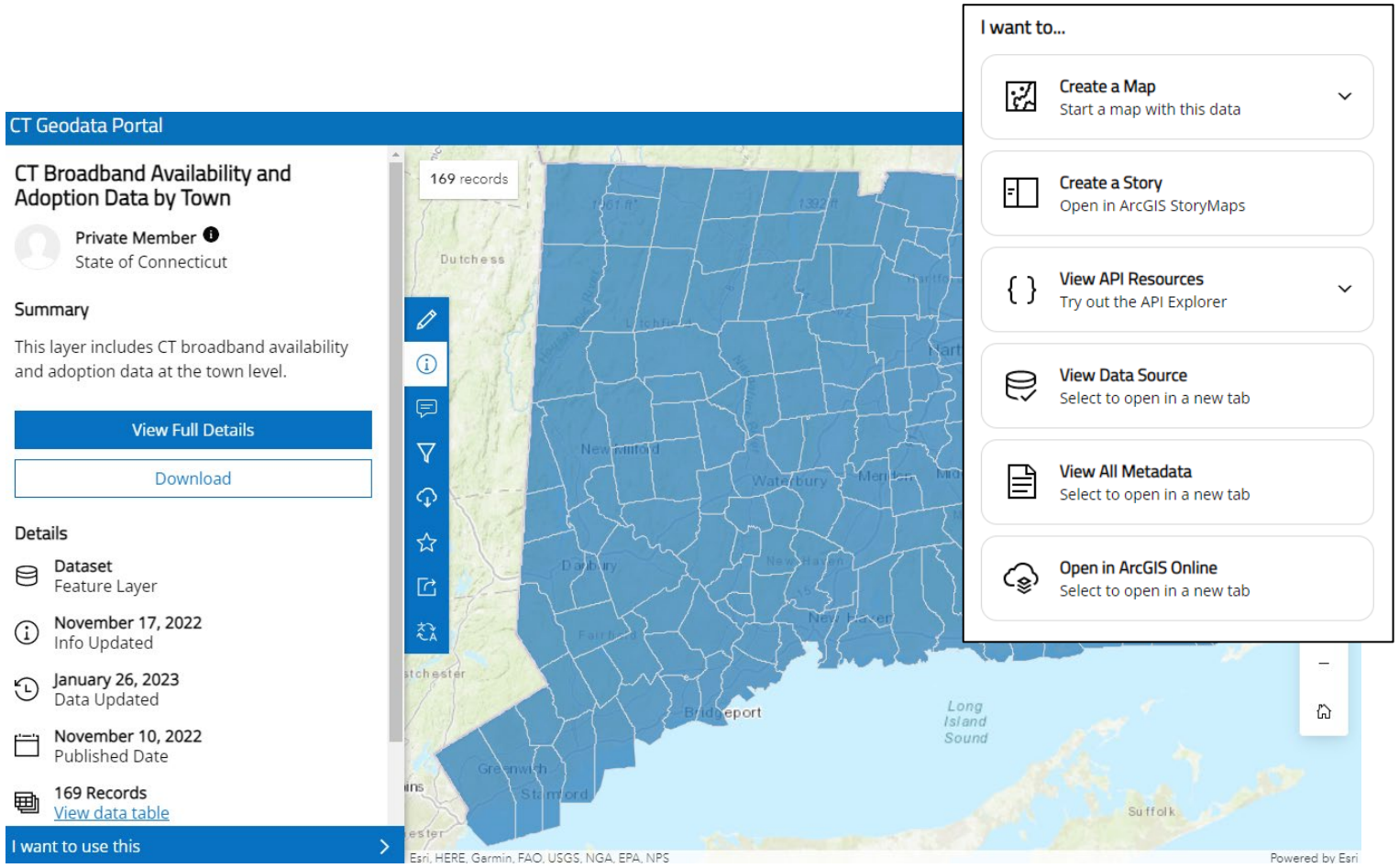


Using Data on the Portal

How to use data on the Portal

Data Overview Page

- This page provides an overview of a dataset and allows for simple data exploration.
- View Full Details for a more complete view of the metadata and download/API options.
- Select Download to view simplified downloading options.



GIS Office Updates and Coming Soon

GIS Office Activities and Updates

- NSGIC Geospatial Maturity Assessment
- CT GIS Strategic Plan
- Broadband Mapping (broadbandmaps.ct.gov)
- Parcel Data Collection and Aggregation
- Statewide Addressing and Geocoding
- Aerial Imagery and Elevation Data Acquisition

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NSGIC Geospatial Maturity Assessment (GMA)

GEOSPATIAL MATURITY ASSESSMENT 2023

Connecticut Report Card

Overall Grade: B+

COORDINATION	GRADE: A

STATE-LED THEMES	GRADE
Address	C+
Cadastre	A
Elevation	A-
Orthoimagery Leaf-Off	A
Transportation	A
NG9-1-1	A

FEDERAL-LED THEMES	GRADE
Geodetic Control	C-
Government Units	A
Orthoimagery Leaf-On	C+

METRICS:

A - Superior
B - Above average
C - Average
D - Below average
F - Failure
N/A - Not Applicable

The National States Geographic Information Council Geospatial Maturity Assessment provides NSGIC members and other partners with a summary of geospatial initiatives, capabilities, and issues within and across state governments. The NSGIC GMA now produce report cards for each state on central data themes and coordination topics. The assessment is performed every two years.

NSGIC

www.nsgic.org | info@nsgic.org | @nsgic

GIS Strategic Plan

Updated Project Plan and Calendar

	Month	Item	Notes
Data Collection	April 2023	Create and vet questionnaires Background and review of literature Project and communication plan	*Completed*
	May 2023	Interviews and Surveys	*Completed*
	June 2023	Initial data collection analysis	*Completed*
	July 2023	Summary data collection report and analysis	*Completed*
	August 2023	Strategic plan planning (*stakeholders*) Strategic plan draft	*Locations identified* *In process*
Strategic Plan.	Sept. 2023	Stakeholder outreach (3 locations) Implementation plan outreach *(stakeholders)* Data Collection Plan	Vision and Mission statements
Implementation Plan.	Oct. 2023	Implementation and Strategic Plans draft	After outreach other review
	Nov. 2023	Present plan at GIS Day	
	Dec. 2023	Final reports and output completed	

GIS Strategic Plan Stakeholder Event

Public Event with the CT GIS Office: A Workshop to Prioritize the Connecticut Geospatial Strategic Plan

*You are invited to a public stakeholder event (**1-2:30 pm on Tuesday, Sept. 19th**) at the **Farmington Library** (6 Monteith Dr, Farmington, CT) to help determine priorities for the next five years regarding GIS data, geospatial technologies, and mapping.*

What is the goal?

GIS is all about the science of where. The CT GIS Office is responsible for coordinating and managing GIS data acquisition and geospatial/location data policy for the State of CT, Office of Policy and Management. Our goal is to support all CT stakeholders including municipalities, State Agencies, and non-profits with high quality data, standards, and effective policies.

The CT GIS Office needs your participation at a **Public Outreach Meeting** to set priorities for Geographic Information Systems (GIS) data, mapping, and geospatial policies over the next five years in support of our Geospatial Strategic Planning process. You will help us determine what is important.

For information contact carl.zimmerman@ct.gov

Broadband Mapping

- Fourth data collection from ISPs underway to serve as a basis for the BEAD Initial Proposal. New public maps by Dec 1.

Parcel and CAMA Processing

- Statewide parcel layer complete, completing link field to CAMA tables and domain verification. Targeting early November for publication.

Addressing and Geocoding

- Address verification process started with additional data sources pending. Targeting EOY for geocoder and dataset publication.

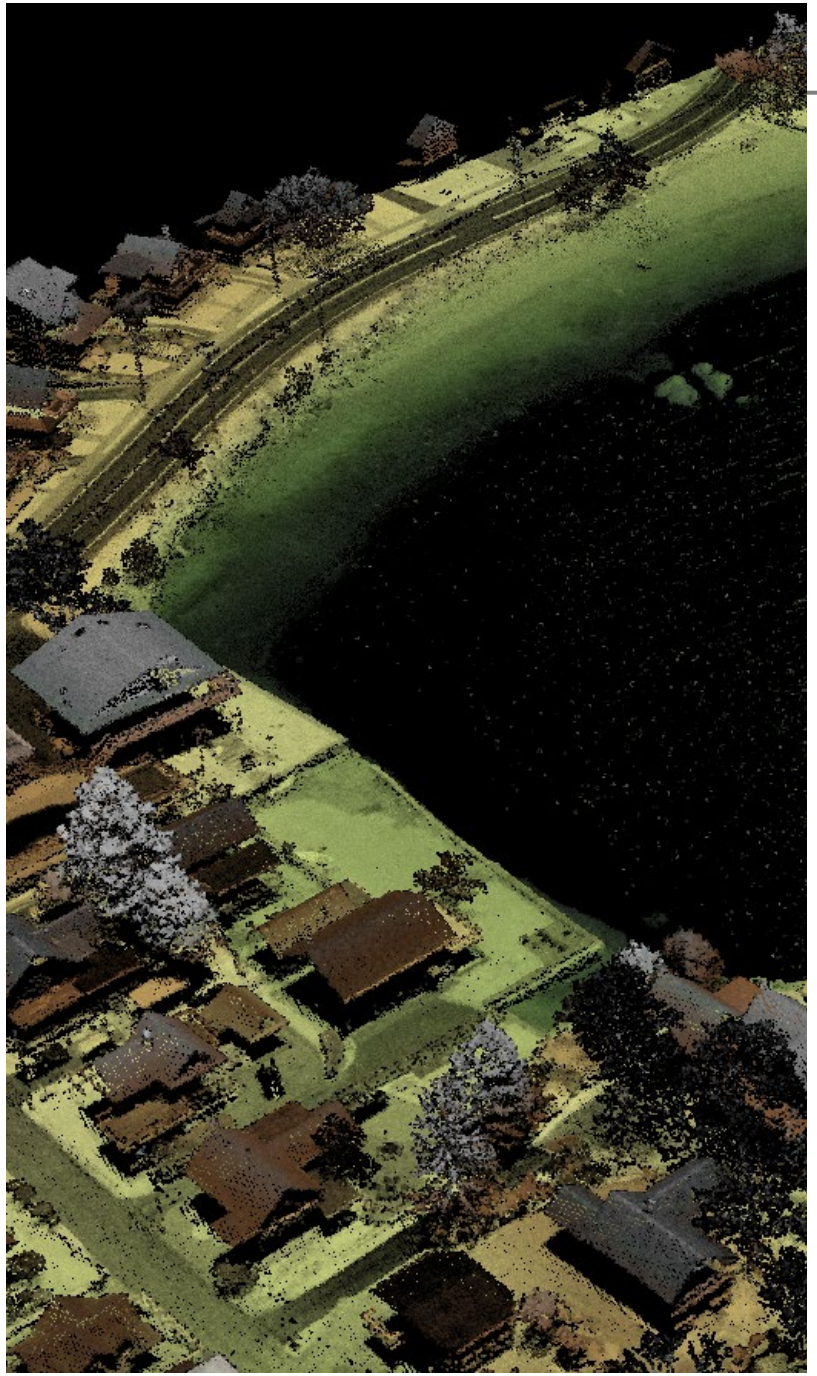
Aerial Imagery Data Acquisition

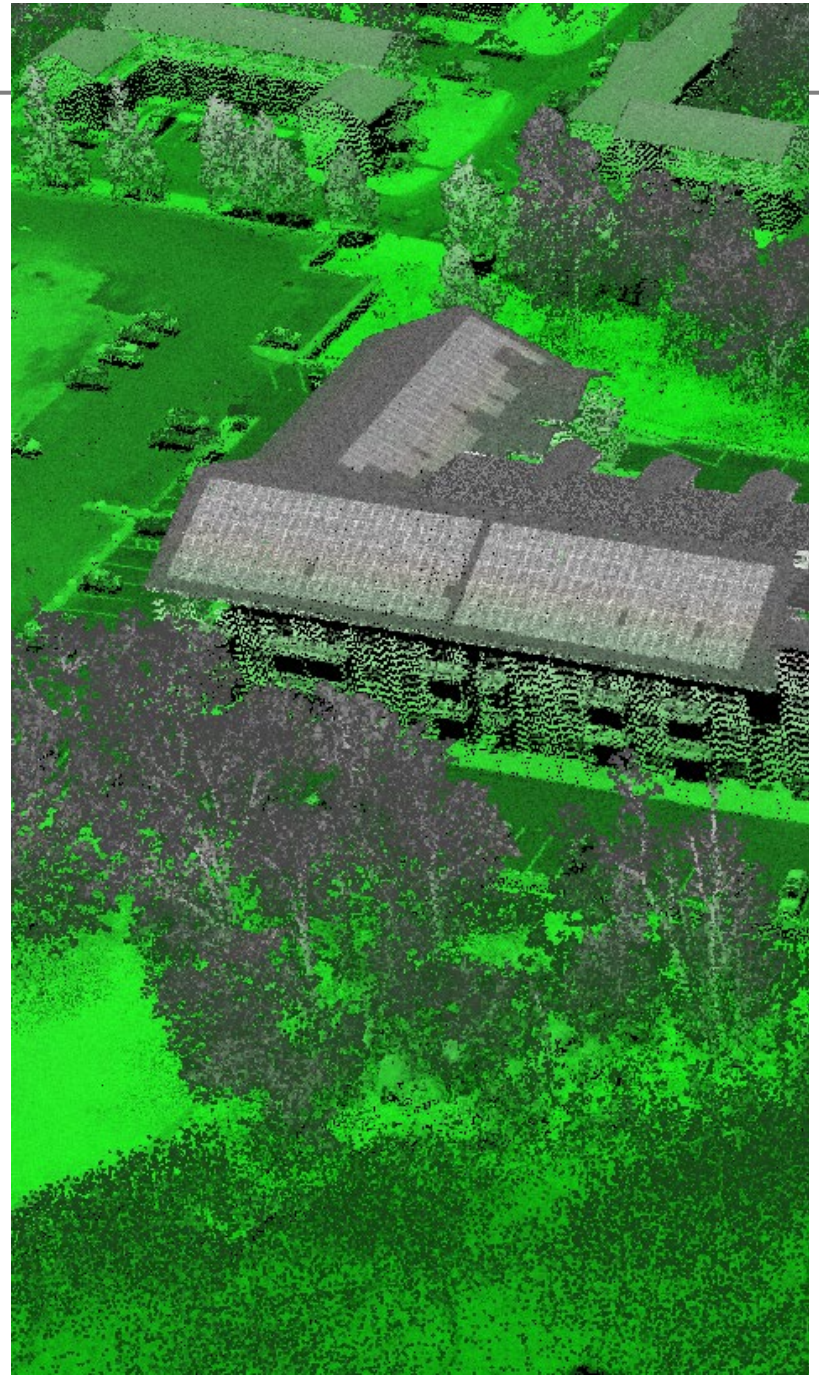
Two imagery and LiDAR captures in Spring 2023 and Spring 2026.

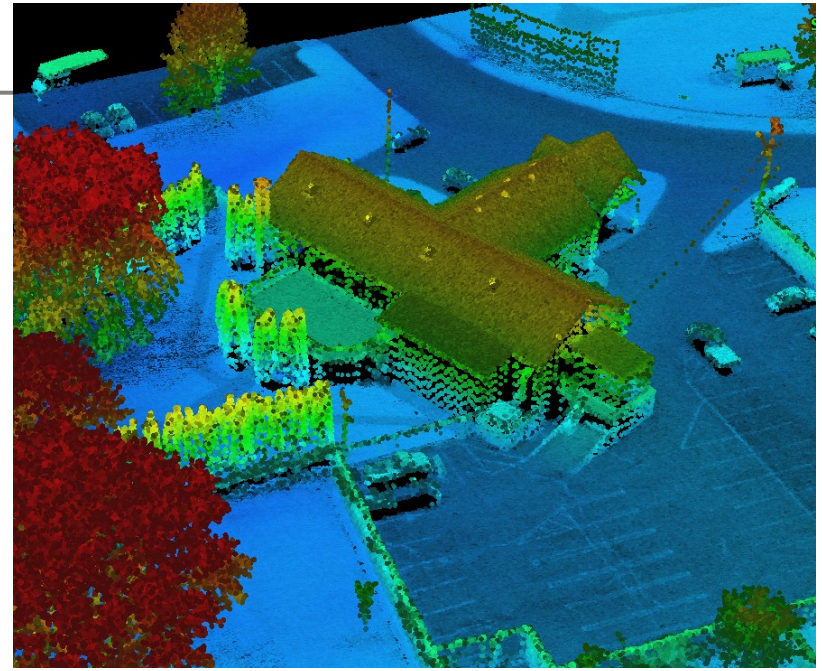
Dewberry selected as the vendor, aerial acquisition complete, processing now beginning.

Products purchased for both captures.

- 3” 4-band imagery
- QL1 LiDAR data (20ppsm coastal, 15ppsm inland)
- DEM
- Contours
- Building Footprints
- 3D Terrain and (LoD2) Building Models







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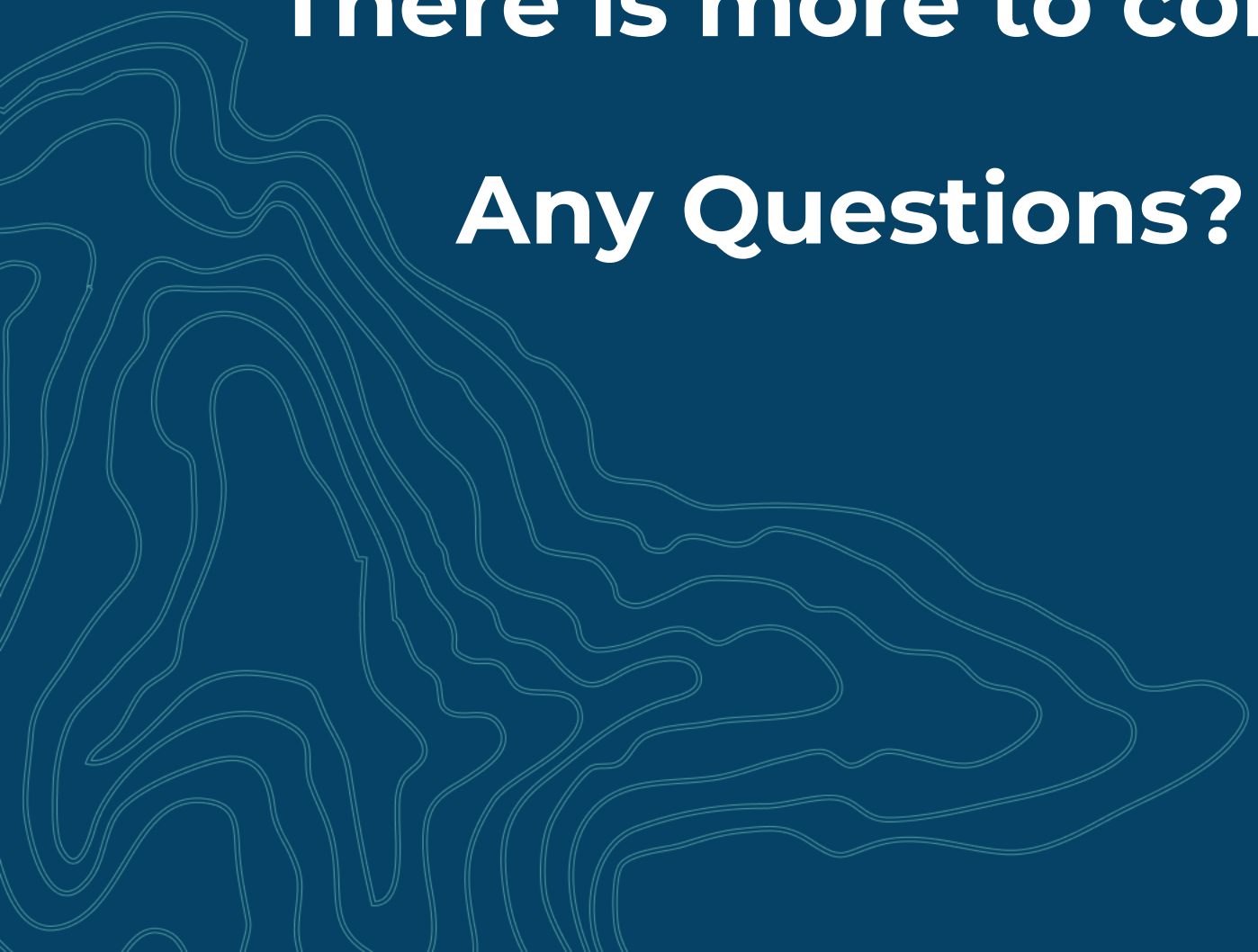
There is more to come!

Any Questions?