Data & Policy Analytics
CT Office of Policy and Management

CT GIS Advisory Council Meeting

August 31, 2023

Data & Policy Analytics

Agenda

Introductions

Introductory Remarks

Public Comment

Meeting Administration

GISO Priority Topics and Working Group Updates

- Aerial Imagery
- GIS Strategic Plan
- Parcel Collection and Aggregation
- Addressing
- Broadband Mapping

Parcel Drafting Guidelines Working Group

- Thad Dymkowski will be providing an update on the work that the Parcel Drafting Standards working group has been doing and soliciting feedback from the Advisory Council since the document is nearly ready.

GIS Clearinghouse Working Group

- Emily Wilson will be providing an update on the work that the GIS Clearinghouse working group has been doing and soliciting feedback from the Advisory Council since the document is nearly ready.

Adjourn

Introductions

GIS Advisory Council

Appointing Authority	Appointee
OPM	Alfredo Herrera
OPM	Scott Gaul
DEEP	Stuart DeLand
ConnDOT	Jennifer Petrario
DESPP	Dan Czaja
DPH	Gary Archambault
CTCOG	Erik Snowden
CTCOG	Mark Hoover
CCM	Thad J. Dymkowski
CCM	John Guszkowski
UConn	Emily Wilson
PURA	Peter Sampiere
GA	Meghan McGaffin
GA	Vacant

Introductory Remarks

GIS Office & Geographic Information Officer (GIO)

OPM's Geographic Information Systems (GIS) Office was established in 2022 following 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.

GIS Office Staff

CT Geographic Information Office (GIO)

Alfredo Herrera – Geographic Information Officer

David Lukens – Broadband Mapping Coordinator

Carl Zimmerman - GIS Coordinator

Leah Hodges – GIS Analyst

Sarah Hurley – GIS Analyst

GISO Priority Topics and Working Group Updates

Topics List

- NSGIC Geospatial Maturity Assessment
- Aerial Imagery and Elevation Data Acquisition
- CT GIS Strategic Plan
- Parcel Data Collection and Aggregation
- Statewide Addressing and Geocoding
- Broadband Mapping

Data & Policy Analytics

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

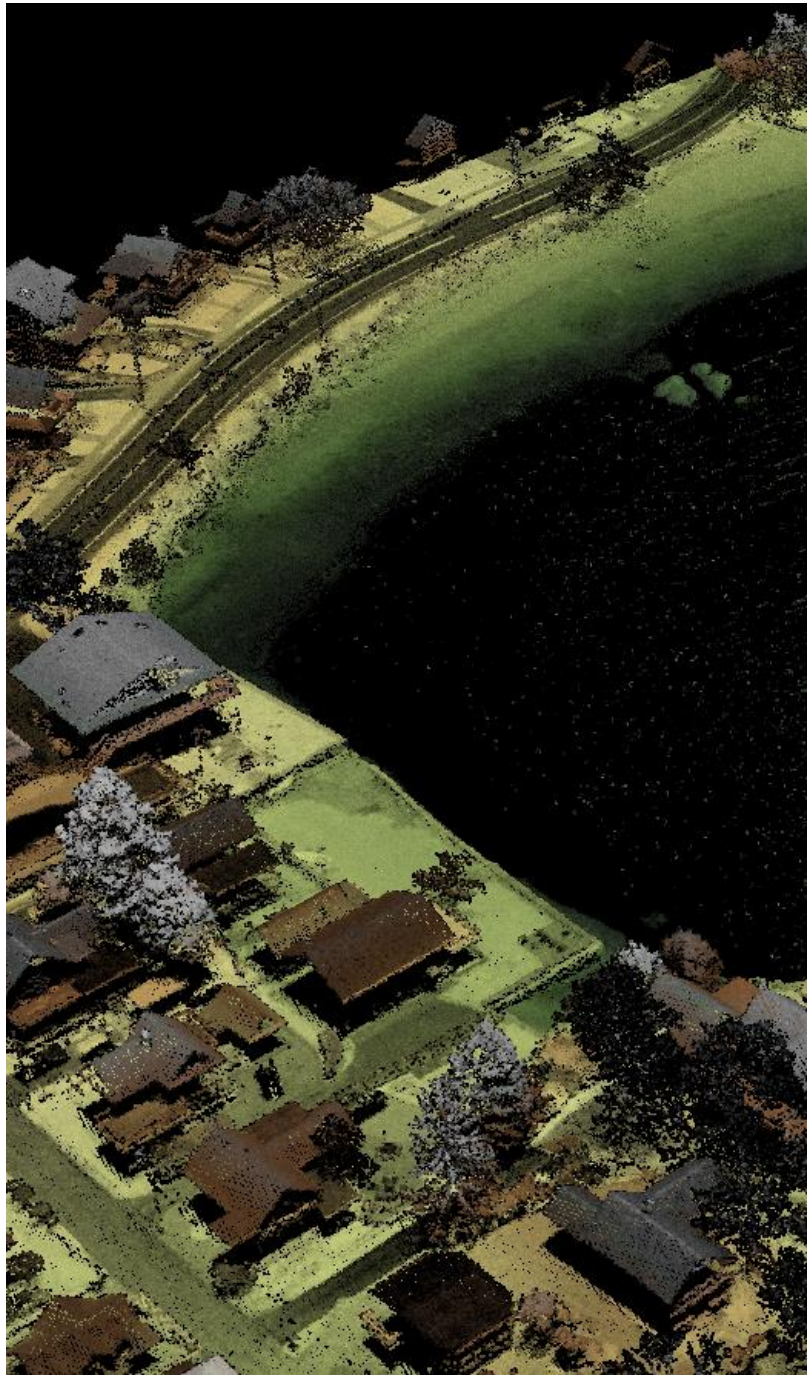
Aerial Imagery Data Acquisition

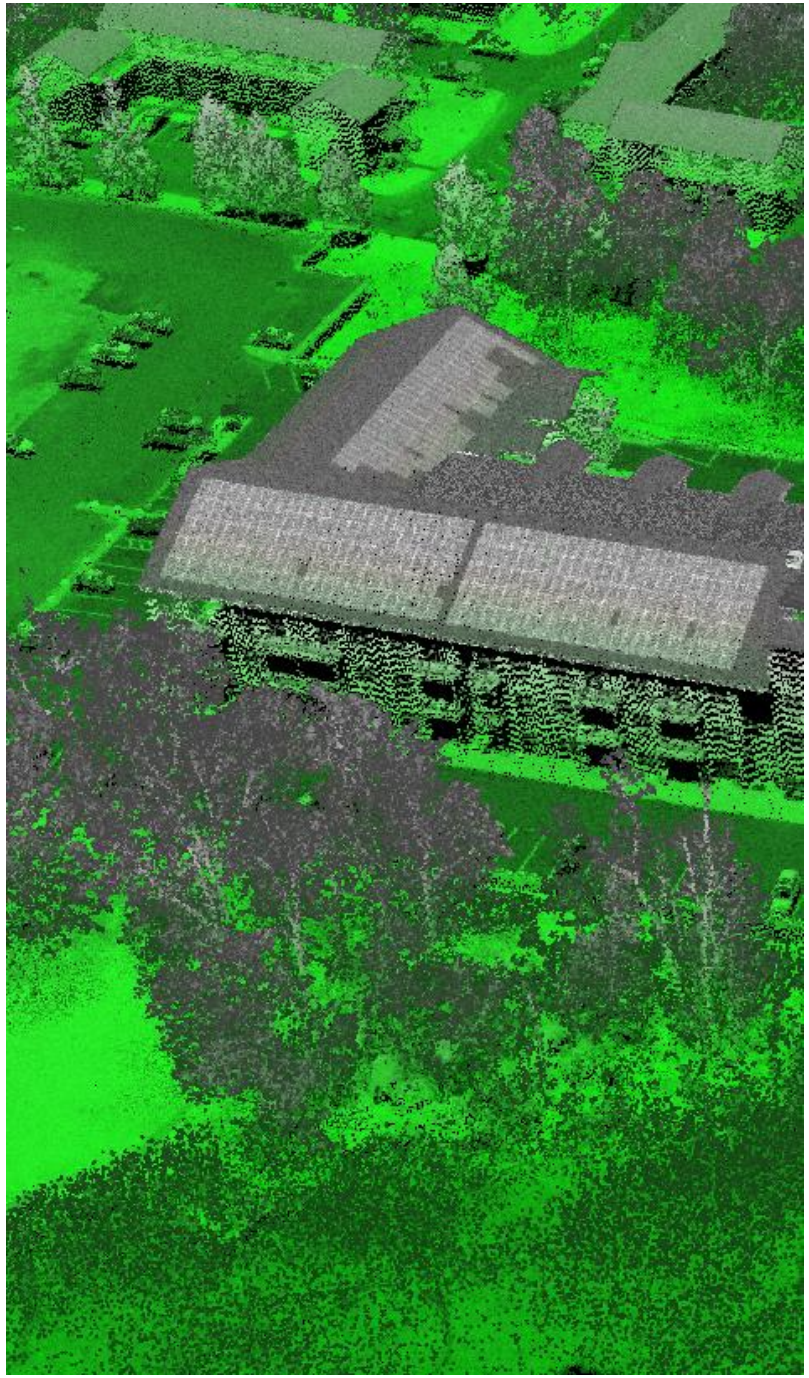
Two imagery and LiDAR captures in Spring 2023 and Spring 2026.

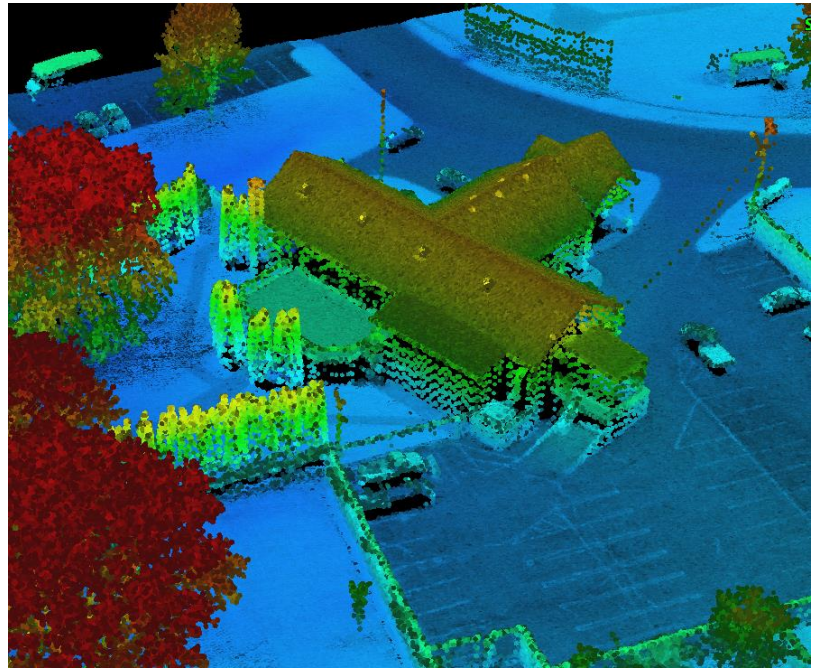
Dewberry selected as the vendor, aerial acquisition complete, processing now beginning.

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








Hoop Pole Rd
Hoop Pole Rd

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***
Strategic Plan.	August 2023	Strategic plan planning (*stakeholders*) Strategic plan draft	***Locations identified*** ***In process***
	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	

Broadband Mapping

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

Parcel and CAMA processing

- Statewide parcel layer complete, completing link field and domain verification

Addressing and Geocoding

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

Parcel Data Creation Working Group

Document Goals:

- Create a common framework for discussion of parcels among colleagues and participating professionals;
- Facilitate the creation of comprehensive and accurate GIS and tabular datasets that can be used for a variety of purposes, including taxation, land-use planning, economic development, infrastructure design, and emergency response, among many others;
- Create data that can be used and aggregated at multiple levels of government;
- Create data that can be used directly by industries such as governments, the private sector, and non-governmental organizations to provide services and create economic value.

Document topics covered

- Parent-child data relationships
  - Condos/trailers, etc.
- Parcels that cross a town line
- Multi-part non-contiguous parcels
- ROW, bodies of water
- Topology
- Data sources
- Methodologies
- Feature-level metadata

Advisory Council Feedback

- Need for additional topics?
  - Parent-child data relationships
    - Condos/trailers, etc.
  - Parcels that cross a town line
  - Multi-part
    non-contiguous parcels
  - ROW, bodies of water
  - Topology
  - Data sources
  - Methodologies
  - Feature level metadata
- Depth level of content technical information
- Section text review

Condos and trailers section

Typically, a condominium unit is part of a larger building that resides on an overarching property parent parcel, that is owned by a single party or entity. Similarly, a trailer park consists of individually owned trailers parked on a parent parcel of land. Each individual unit is typically owned by an individual or party that is different from the over-arching owner of the complex.

There are two acceptable methods for displaying geometry that provide a fair representation of this scenario. The first method is to use the building or unit footprint as the individually owned parcel polygon. These polygons will reside within the parent polygon or as overlapping polygons on top of the parent polygon in the shape of the building or unit footprint. The second method is to create coincident duplicate geometry of the entire parent parcel polygon, one for each unit. In both methods, each property record, including the overarching parent owner, will each be associated with a singular geometry providing the one-to-one relationship.

Both of these methods will violate the “should not overlap” rule, however, it is acceptable in this scenario.

The geometry can be created in a few ways:

- A series of “copy/paste” tasks
- Using the union tool with address points and the parent polygon
- Using the Identity tool with address points and the parent polygon

GIS Clearinghouse Working Group

Questions and Discussion