Data & Policy Analytics
CT Office of Policy and Management

DATA Board Meeting

State Data Plan Progress Report

October 5, 2023

Access to Data: Goals

1. Develop a dashboard to provide improved navigation and access for data on core state programs and services

2. Complete the transition of state agency datasets from CT Data Collaborative to the open data portal

3. Identify three agencies to publish new data in both 2023 and 2024

4. Audit and complete missing metadata for open data and GIS data

5. Develop standards and best practices for data collection of demographic factors, such as race/ethnicity, language, gender identity and household structure

6. Conduct strategic planning and needs assessment to identify ways to improve timeliness, completeness, quality, and standardization of parcel, property, and address data statewide, through the GIS Office

7. Improve access to Census data and quality of Census population data, through the Census State Data Center, with development of population estimates, municipal outreach, analysis of the impact of changes to Census data, and planning for future development of population estimates and projections

8. Develop a plan for creation of reference datasets for use by agencies and developers, and to increase standardization in categories for the same factors

Identify three agencies to publish new data in both 2023 and 2024

Complete

New data published on the Open Data Portal in 2023 from:

1. **CSSD** – Juvenile justice metrics
2. **DAS** – State workforce data
3. **DCP** – Cannabis data
4. **DMHAS** – Client counts by program, service, and demographics
5. **DRS** – Tobacco and alcoholic beverages tax revenue data
6. **OEC** – Birth to Three data

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Complete the transition of state agency datasets from CT Data Collaborative to the Open Data Portal

Complete

Data now available on the Open Data Portal from:

- CSL
- DCF
- DECD
- DMHAS
- DOH
- OCME
- OEC
- OPM
- SOTS

Data available on agency portals / websites from:

- DESPP
- DOL
- DPH
- SDE

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Audit and complete missing metadata for open data and GIS data

In Progress

Metadata audit for the Open Data Portal was completed on 9/29/2023.

6%
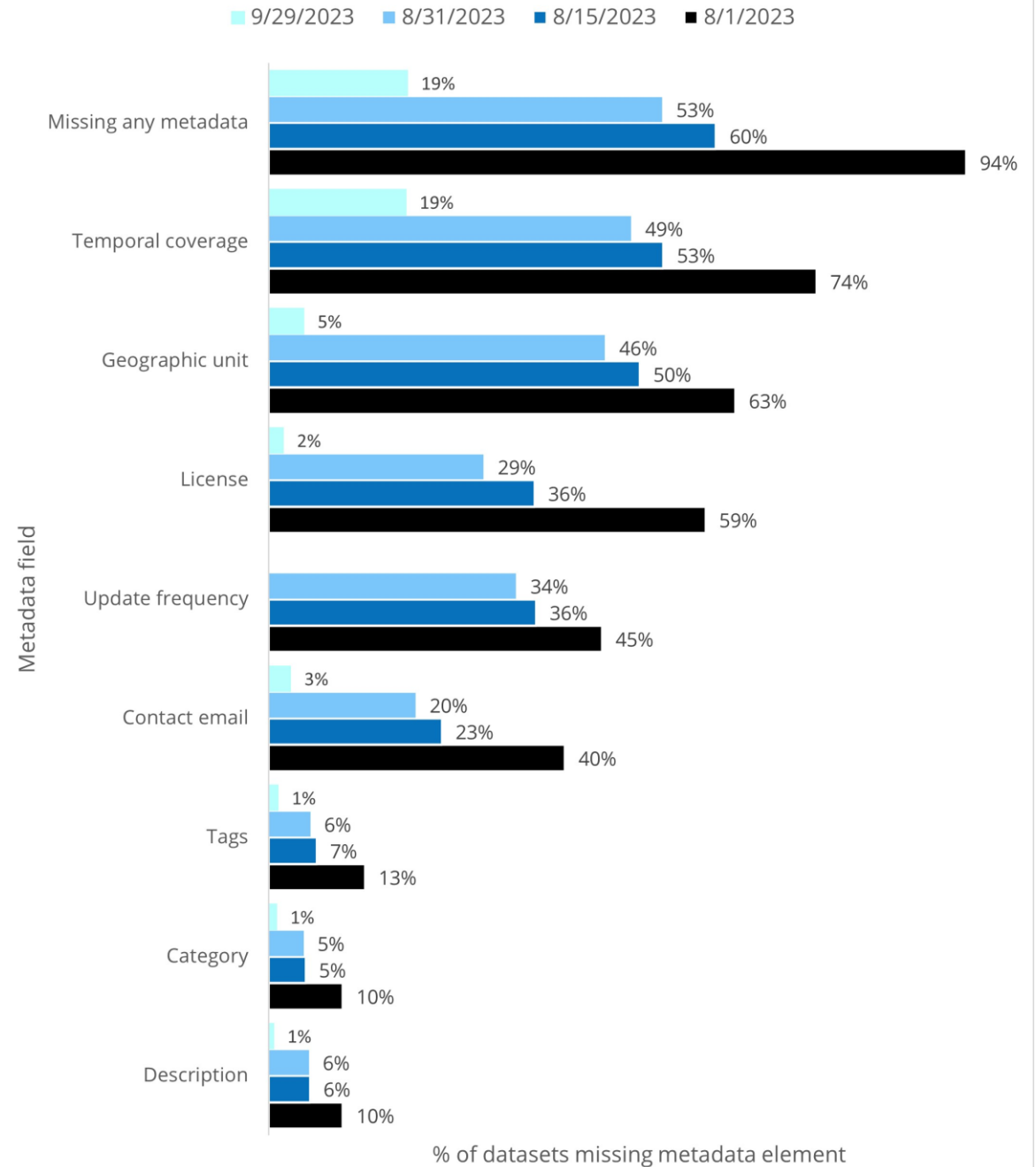Datasets with complete metadata before the metadata audit

81%
Datasets with complete metadata after the metadata audit

An audit of metadata on the Geodata Portal is scheduled for 2024.

Open Data Portal Metadata Audit

Access to data – coming soon

- Develop a dashboard to provide improved navigation and access for data on core state programs and services

- Conduct strategic planning and needs assessment to identify ways to improve timeliness, completeness, quality, and standardization of parcel, property, and address data statewide, through the GIS Office

- Improve access to Census data and quality of population data, through the Census State Data Center, with development of population estimates, municipal outreach, analysis of the impact of changes to Census data, and planning for future development of population estimates and projections

- Develop standards and best practices for data collection of demographic factors, such as race/ethnicity, language, gender identity and household structure

- Develop a plan for creation of reference datasets for use by agencies and developers, and to increase standardization in categories for the same factors

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Agency capacity: Goals

1. Identify opportunities to coordinate with new BITS to support principles and implement State Data Plan,

2. Conduct a technical review of the open data and GIS portals in 2023, including the options for automation;

3. Identify and collaborate on development of best practices in two priority areas (for example, data ingestion, data matching, data environment, analytics and research) in 2023;

4. Use a coordinated intake process for development of new projects, that meets the requirement under CGS 4-67p(g) that "information technology-related actions and initiatives of executive branch agencies...shall be consistent with the final state data plan," by 2024;

5. Improve security by developing coordinated processes to classify data appropriately and to track lineage, utilization and access;

6. Undertake one data discovery exercise in 2023; and

7. Develop standards and guidance for use of new technologies to ensure individual privacy;

8. Develop training and capacity-building opportunities and materials, to include:

9. Deliver quarterly data literacy and data culture trainings, and develop a series of regular targeted training offerings for agency staff;

10. Develop materials on historical context for core policies, programs and services to accompany use of data from those areas;

11. Develop a 'knowledge hub' for shared processes and tools for state agency use to improve onboarding and reduce the impact of staff turnover: covering areas identified as needs by agencies: data visualization, automation, metadata, aggregation / cell suppression;

12. Continue community user and data publisher surveys through data.ct.gov and the user feedback through the CT Geodata Portal survey to identify future areas for training / capacity-building;

13. Identify opportunities for skill-building, and career pathways to build capacity for existing state analytical and GIS staff

14. Analyze existing state agency analytical capacity and identify models for efficient use of limited staff resources, building on work done in CREATES report

15. Launch and complete a needs assessment of state GIS capacity, focusing in people, process and technology to inform development of the GIS Strategic Plan in 2023

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Develop training and capacity-building opportunities and materials

Complete a needs assessment of state GIS capacity to inform GIS Strategic Plan

Complete

Delivered training and capacity building for:
- Open data
- GIS portal
- ARPA program managers
- State and public sector leadership

Completed needs assessment

Improve security by developing coordinated processes to classify data appropriately and to track lineage, utilization and access

In Progress

Working on updated high-value data inventory for fall 2023 to align data catalog, data classification and application inventory

Application ⌄	Primary Purpose ⌄	Business Functi... ⌄	Stages ⌄
LINK-SACWIS	Legacy Child Welfare system including modules for Child Protective Services, Intake, Ongoing services, Fiscal, Adoption, Education, and Medical Processes	Health Care Delivery ; Information Managen; Legal Investigation; Program Monitoring; Record Retention	Release Under Mainte
CCWIS - CT-KIND	Modern Child Welfare system including CPS, Intake, Ongoing services, Fiscal, Adoption, Education, and Medical Processes	Health Care Delivery ; Information Managen; Legal Investigation; Program Monitoring	Released and New De

Identify opportunities to coordinate with new BITS to support principles and implement State Data Plan

In Progress

Conducted a technical review of the open data portal, including the options for automation;

Working on improvements and best practices for data matching and secure computing environment in 2023;

Building coordination on governance (GIS Advisory Council, P20 WIN, DATA Board) to ensure project coordination;

Agency capacity – coming soon

In Progress

Not Started

- Develop materials on historical context for core policies, programs and services to accompany use of data from those areas;

- Develop a 'knowledge hub' for shared processes and tools for state agency use to improve onboarding and reduce the impact of staff turnover: covering areas identified as needs by agencies: data visualization, automation, metadata, aggregation / cell suppression;

- Continue community user and data publisher surveys through data.ct.gov and the user feedback through the CT Geodata Portal survey to identify future areas for training / capacity-building;

- Undertake one data discovery exercise in 2023

- Develop standards and guidance for use of new technologies to ensure individual privacy

- Identify opportunities for skill-building, and career pathways to build capacity for existing state analytical and GIS staff

- Analyze existing state agency analytical capacity and identify models for efficient use of limited staff resources, building on work done in CREATES report

Data-informed decision-making: Goals

1. Increase the percentage of ARPA investments with either a rigorous evidence base or evaluation, from the 2023 to the 2024 Recovery Plan Performance reports;

2. Finalize development of a Resident Advisory Board for P20 WIN by end of 2023, including standard operating procedures for inclusion and compensation of participants

3. Develop 'research collaboratives,' based on the successful CCERC model, to engage external research capacity for ARPA and digital equity, and as advisory bodies for evaluation scope and design;

4. Build on support for evaluation and evidence-building through ARPA to find opportunities for use of 'mixed methods' and techniques that expand beyond US Treasury reporting guidance;

5. Continue efforts to improve service coordination and data sharing for health and human services, as identified in the Five-Year Statewide Health IT Plan4, to be implemented within the five-year timeframe of the plan:

6. Evaluate need for ongoing workgroup to recommend best practices for delivering more efficient and coordinated services, including more accurate identity matching of vulnerable individuals;

7. Establish interoperability guide and implementation standards for connecting agency data with Connie, the state health information exchange (HIE);

8. Establish standards for state health and human services data collection and procurement to ensure interoperability;

9. Launch working group to identify legal and technical questions on consent management to improve provision of services and safe, ethical and secure data sharing

Continue expansion of enterprise data sharing efforts to health and human services and criminal justice, with addition of four new agencies to P20 WIN during 2023 – 2024

Increase request throughput for P20 WIN to successfully manage 20 – 30 requests per year with reduced time to complete requests

Continue use of learning agendas for P20 WIN, ARPA and other areas to identify and enable action on state priorities for analysis and research;

In Progress

Added to P20 WIN in 2023:
1. DMHAS
2. CETCS
3. JB-CSSD
4. DOC

Coming soon for P20 WIN data:
1. At-Risk and Disconnected Youth in Connecticut
2. An Analysis of Postsecondary Outcomes of CT Youth
3. Manufacturing Skills for Connecticut
4. Homelessness and the Workforce
5. College and Career Readiness

Developing learning agendas for P20 WIN and ARPA

Increase the percentage of ARPA investments with either a rigorous evidence base or evaluation, from the 2023 to the 2024 Recovery Plan Performance reports;

Develop 'research collaboratives,' based on the successful CCERC model, to engage external research capacity for ARPA and digital equity, and as advisory bodies for evaluation scope and design;

Build on support for evaluation and evidence-building through ARPA to find opportunities for use of 'mixed methods' and techniques that expand beyond US Treasury reporting guidance;

In Progress

ARPA Recovery Performance Plan stats

There are currently 440 ARPA funded projects. For the most recent Annual Recovery Plan, we reported 88% of mandatory performance indicators and provided performance updates on 25% of the projects.

Data-informed decision-making

In Progress

- Finalize development of a Resident Advisory Board for P20 WIN by end of 2023, including standard operating procedures for inclusion and compensation of participants

- Continue efforts to improve service coordination and data sharing for health and human services, as identified in the Five-Year Statewide Health IT Plan4, to be implemented within the five-year timeframe of the plan:

- Evaluate need for ongoing workgroup to recommend best practices for delivering more efficient and coordinated services, including more accurate identity matching of vulnerable individuals;

Not Started

- Establish interoperability guide and implementation standards for connecting agency data with Connie, the state health information exchange (HIE);

- Establish standards for state health and human services data collection and procurement to ensure interoperability;

- Launch working group to identify legal and technical questions on consent management to improve provision of services and safe, ethical and secure data sharing

GIS Office Updates

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	

Themes and Anecdotes for Strategic Plan

Themes

- GIS Office and Governance
- GIS Advisory Council and Governance
- Geodata Portal
- State Agencies
- Funding Sources and Support
- Training and Education
- Higher Ed, K-12 Education and Community Colleges
- Private Sector
- Municipalities and Other Organizations
- Technology
- Data
- Social Themes and Equity
- Organization

Example Anecdotes

- Education and training access/availability have been identified as an opportunity across multiple years.
- Training opportunities for technology, ethics, and techniques are seen as a priority for development.
- Respondents continue to mention the need to support small towns with data and technical support because of limited resources.

Data Collection Ex: Priority Data Sets

➤ Ortho-imagery	➤ High
➤ Cadastral (e.g. parcels and CAMA)	➤ High
➤ Governmental units (e.g. town boundaries)	➤ High
➤ High-resolution land cover & use	➤ Med-high
➤ Buildings	➤ Med-high
➤ Addresses	➤ Med-high
➤ Hydrography	➤ Med
➤ Elevation (e.g. LiDAR, DEM, and contours)	➤ Med
➤ Other planimetric data (e.g. sidewalks and parking lots)	➤ Med
➤ Geodetic control and survey	➤ Med
➤ Transportation data sets	➤ Med

Labels	Cadastral
I don't know	12
Not important	10
Somewhat important	17
Very important	65
Grand Total	104

Labels	Geodetic control and survey
I don't know	25
Not important	22
Somewhat important	28
Very important	29
Grand Total	104

How important are the following data sets to your work and organization?

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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

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

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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 ongoing.

Products purchased for both captures.

3" 4-band imagery
QL1HD LiDAR data (20ppsm coastal, 15ppsm inland)
0.5 Meter DEM
1-ft Contours
Building Footprints
3D Terrain and (LoD2) Building Models