



# Minnesota Geospatial Advisory Council

May 29, 2024

# Agenda Item 1

- **Call to order**
  - **Introductions**
  - **Approve agenda**
  - **Approve last meeting minutes**  
*(March 20, 2024)*

Albrecht



# Member Introductions

- **City, Twin Cities metro**
  - Dennis Tumberg, City of Chanhassen
- **City, Greater Minnesota**
  - Vacant
- **County, Twin Cities metro**
  - Victoria Reinhardt, Ramsey County
- **County, Greater Minnesota**
  - Christy Christensen, McLeod County
- **Regional Government, Twin Cities metro**
  - Tanya Mayer, Met Council
- **Regional Government, Greater Minnesota**
  - Jill Amundson, West Central Initiative
- **State Government**
  - Kari Geurts, DNR
  - Ben Timerson, MnDOT
- **Federal Government**
  - Jeff Bloomquist, Risk Management Agency, USDA
  - Mitch Bergeson, US Geological Survey
- **Tribal Government**
  - Ryan Bonney, Shakopee Mdewakanton Sioux Community
- **Non-profit Organization**
  - Jessica Fendos, LOGIS
- **Business**
  - Kendis Scharenbroich, Pro-West & Associates
  - Gerry Sjerven, Minnesota Power
- **K-12 Education**
  - Shana Crosson, U-Spatial / UMN Twin Cities
- **Higher Education**
  - Len Kne, U-Spatial / UMN Twin Cities
  - Stacey Stark, U-Spatial / UMN Duluth
- **MetroGIS**
  - David Brandt, Washington County
- **MN GIS/LIS Consortium**
  - Leanne Knott, City of Red Wing
- **Surveyor**
  - Pat Veraguth, Douglas County
- **At-large**
  - Cory Richter, Ramsey County
  - Heather Albrecht, Hennepin County
  - Britta Maddox, Anoka County
- **Chief Geospatial Information Officer (ex-officio)**
  - Alison Slaats, MnGeo

## **Non-Member Guests**

*First and last name*

*Name of your organization*

# Agenda

Time	Topic	Time	Topic
11:00	Call to order	12:35	MnGeo updates
11:10	Review and accept Committee and Workgroup Reports	12:55	Review and approve GAC 2023 Accomplishments and 2024 Workplan
11:15	Review and approve K-12 Committee Charter	1:25	Priority projects and initiatives updates
11:25	Non-profit sector outreach event	1:45	St. Cloud State University Letter of Support
11:35	NAIP 2023 status update	1:50	Announcements or other business
11:40	Statewide lidar status update / Q & A	2:00	Adjourn
12:05	Break and networking		

**Approve agenda**

# Last Meeting Minutes Approval

**Approve last meeting minutes**

*(March 20, 2024)*



## **Committee / Workgroup Reports – Review and Accept Albrecht**





## **K-12 Committee Charter – Review and Approve Crosson / Larson**



# K-12 Committee Proposal

Create a committee in GAC to  
promote connections between GIS  
professionals and the K-12  
community

# K-12 Committee Proposal: Why is this important for students and schools?

## **For Students:**

- Students see geospatial as a career opportunity
- Students see spatial thinking as a way to analyze problems and create solutions
- Increase spatial thinking in all disciplines
- Focus on critical thinking, not on tools

## **For Schools:**

- Social Studies and Science standards now include references to geospatial tools and data
- There is no funding to support development of content or training for teachers

# K-12 Committee Proposal: Why is this important for the geospatial profession?

## **For the geospatial profession:**

- Increase the number of students entering the field
- Increase the diversity of students entering the field
- Create students with exposure to the field before entering undergrad education
- Create a larger pool of individuals available to work with students and teachers

# K-12 Committee Proposal: GAC Guiding Principles

## **The committee will follow these GAC Guiding Principles:**

- Promote geospatial information as a shared public resource
- Champion collaboration among geospatial practitioners and related stakeholders
- Educate and inform policymakers about the value and use of geospatial technology
- Encourage geospatial education at all levels
- Advocate for free and open geospatial data

# K-12 Committee Proposal: Charter Mission

## **Mission Statement**

To expose Minnesota school-aged youth to GIS technology, inspire future GIS users and creators, and enhance the educational experience for students and teachers in the K-12 system.

## **Objectives and Deliverables**

This first year of the K-12 Committee will be a year of exploration and discovery. We intend to take time to evaluate the landscape and envision the best options for increasing GIS in K-12 settings.

# K-12 Committee Proposal: Activities in Year 1

- Lightning Talk at GIS/LIS Conference Oct 2024
- Engage in conversation with schools and teachers to learn about needs
- Research options and develop prototypes for data sets that are usable, findable and age/subject appropriate
- Brainstorm career connection opportunities



# K-12 Committee Proposal: Current Members

- Shana Crosson, *UMN*, Co-Chair
- Terry Larson, *Esri*, Co-Chair
- Larkin Walter, *Wright County*
- Dennis Tumberg, *Chanhassen*
- Travis Ormsby, *Esri*, Former Teacher
- Lindsey Savage, *MnDOT*
- Mary Marek-Spartz, *UMN*
- Jeff Bloomquist, *USDA*
- Jill Amundson, *West Central Initiative*
- Garet Madison, *Nicollet County*

# K-12 Committee Proposal: Current Partners



# K-12 Committee Proposal: GeoFest

- **October 5, 2024**
- Hosted by
  - [Minnesota Alliance for Geographic Education](#)
  - UMN (Geography Department, U-Spatial, Borchert Map Library)
  - GIS/LIS
- Full track of GIS and digital map sessions

# K-12 Committee Proposal: Join Us!

Contact Shana at  
[scrosson@umn.edu](mailto:scrosson@umn.edu)

# K-12 Committee Proposal: Thank You!

**Shana Crosson**

Spatial Technology Consultant, *U-Spatial*

University of Minnesota

[scrosson@umn.edu](mailto:scrosson@umn.edu)

## **Non-profit Sector Outreach Event Fendos**



# Non-profit Sector Outreach Event: Community Mapping Expo for Minnesota Non-Profits

## Purpose

Unlock the power of location-based data and access affordable tools at the Community Mapping Expo for Minnesota Non-Profits. We'll explore a range of mapping resources, including Minnesota Geospatial Commons, Esri tools and technology from ArcGIS Online and Living Atlas. It is designed to help you and your communities undertake grassroots change, visualize impact, optimize resources, and make data-driven decisions. Whether you're looking to better understand your community, align funding resources, or measure impact, these tools offer invaluable insights to advance your nonprofit's work.



# Non-profit Sector Outreach Event: Flyer and [RSVP Survey](#)



**Free**

## Community Mapping Expo for Minnesota Non-Profits

*Bring your own laptop! Learn how to use GIS tools to enhance grant applications and support decision-making.*

Please sign up via this simple survey.



You are cordially invited to join us on August 21<sup>st</sup>, 2024 from 10:00 - 11:45 AM.

Come learn from the State Geographic Information Officer, Esri, the University of Minnesota, West Central Initiative, and LOGIS on various aspects that will help advance your GIS projects.

**Agenda**

- About MnGeo and Sharing Data
- Esri Tools and Technology
- Esri Non-Profit Program
- Real-world Use Cases Applying Esri Easy-to-Use Solutions.

Location:   
West Conference Rm, 5750 Duluth St.,  
Golden Valley, MN 55422.  
Light refreshments will be provided.

 MINNESOTA  
IT SERVICES  
GEOSPATIAL INFORMATION OFFICE

## Target Audience:

Users from Non-Profit Organizations

## When:

August 21, 2024  
10 AM -11:45 AM

## Where:

LOGIS (5750 Duluth St, Golden Valley)

**Cost: Free**

# Non-profit Sector Outreach Event: Timeline

**Feb. 23, 2024 - LOGIS met with U of M CURA**

**Mar. 20th - Jeff and Jessic met with MN Council of Nonprofits**

**March 29th - Met with Esri (Arlana Kim) to align goals**

**April 25th - Obtained support from MnGeo (Alison Slaats and Sally Wakefield)**

**May 1st - Confirmed LOGIS Management Support (LOGIS CIO)**

**May 9th - Met with Esri and West Central Initiative to secure a Solution Engineer for presentation. WCIJ joined partnership.**

**May 16th - Obtained GIS/LIS Board's approval to promote this event through consortium E-Announcements and social media.**

**May 29th - Seeks endorsement from GAC to promote this event via MnGeo Newsletters.**

**June - July (Promote through all contacts). Presenters meet to develop presentation materials.**

**August 14th -16th: LOGIS Conference Room technology upgrade testing and rehearsal.**

**August 21st - Event Day**

## **May 29:**

Seek endorsement from GAC to promote this event via MnGeo Newsletters

## **June - July:**

Promote through all contacts

Presenters meet to develop presentation materials

## **August 14 - 16:**

LOGIS Conference Room technology upgrade testing and rehearsal

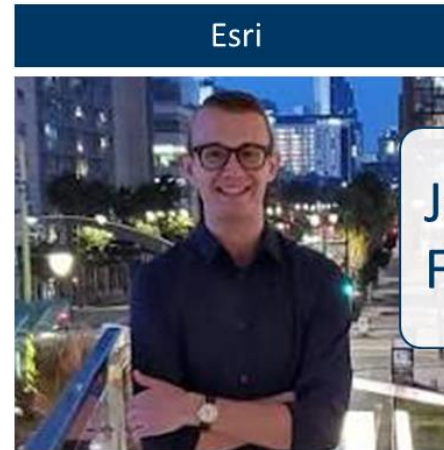
## **August 21:**

**Event Day**

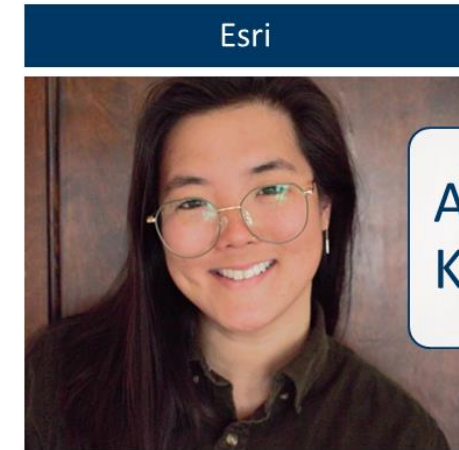
# Non-profit Sector Outreach Event: Mapping Expo Partnership



Alison  
Slaats



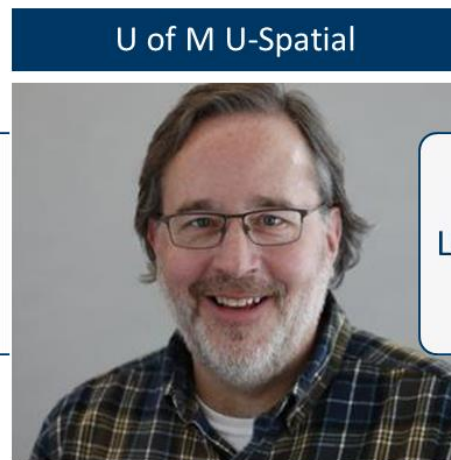
Jarod  
Fox



Ariana  
Kim



Jeff  
Matson



Len Kne



Jill  
Amundson



Jessica  
Fendos

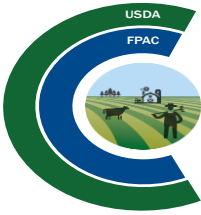
# Non-profit Sector Outreach Event: Outreach and Promotion

- [Minnesota Council of Nonprofits](#)
- WCIF -> GiveMN
- CURA, U-Spatial
- GIS/LIS (May 16<sup>th</sup> board meeting) -> E-Announcements and social media
- MnGAC meeting (May 29<sup>th</sup>) -> MnGeo Newsletter
- MetroGIS Coordinating Committee June 6<sup>th</sup> 1 PM - 3 PM
- [State Attorney General's Nonprofit resources](#) (*a list of outreach organizations*)



## **NAIP 2023 status update** Bloomquist





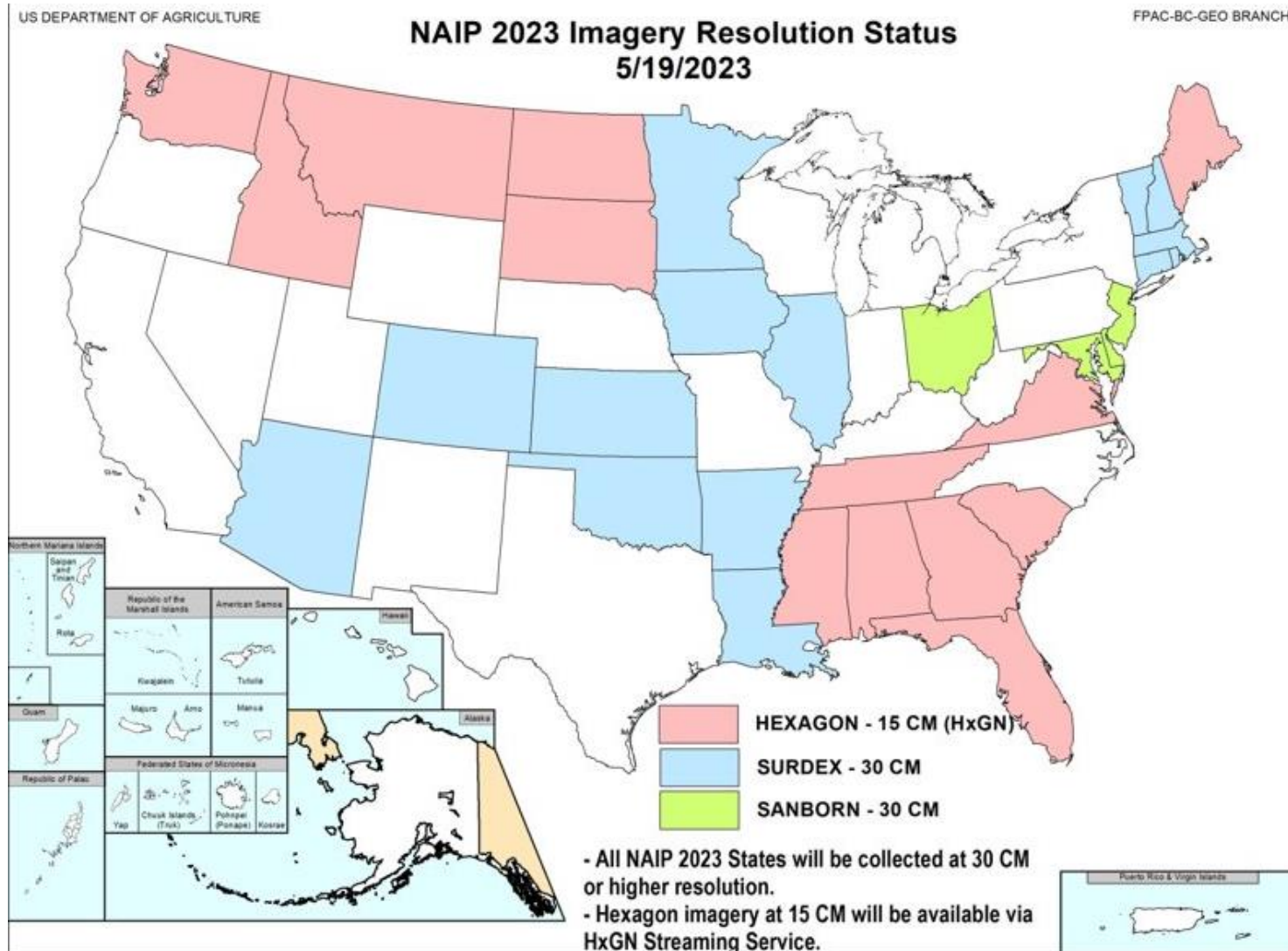
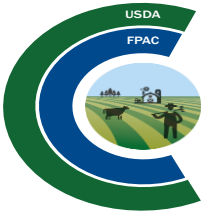
# National Agricultural Imagery Program Updates for Minnesota

[National Agriculture Imagery Program - NAIP Hub Site \(arcgis.com\)](https://arcgis.com)

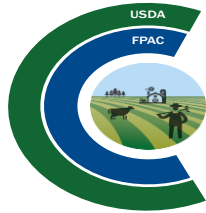
**5/29/2024**

National Agriculture Imagery Program (NAIP)

# NAIP 2023



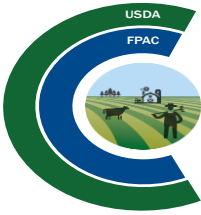




# National Agricultural Imagery Program

- NAIP is a USDA Farm Production and Conservation Business Center program to acquire “leaf on aerial imagery
- NAIP Imagery is used to maintain the Common Land Unit (CLU) boundaries and assist with other farm programs
- Goal of NAIP to collect 60 cm or better\*
- Focus of NAIP is agriculture and other areas are typically acquired between cost share partnerships between federal, state and local government
- Specific information for NAIP can be found at: <https://naip-usdaonline.hub.arcgis.com/>

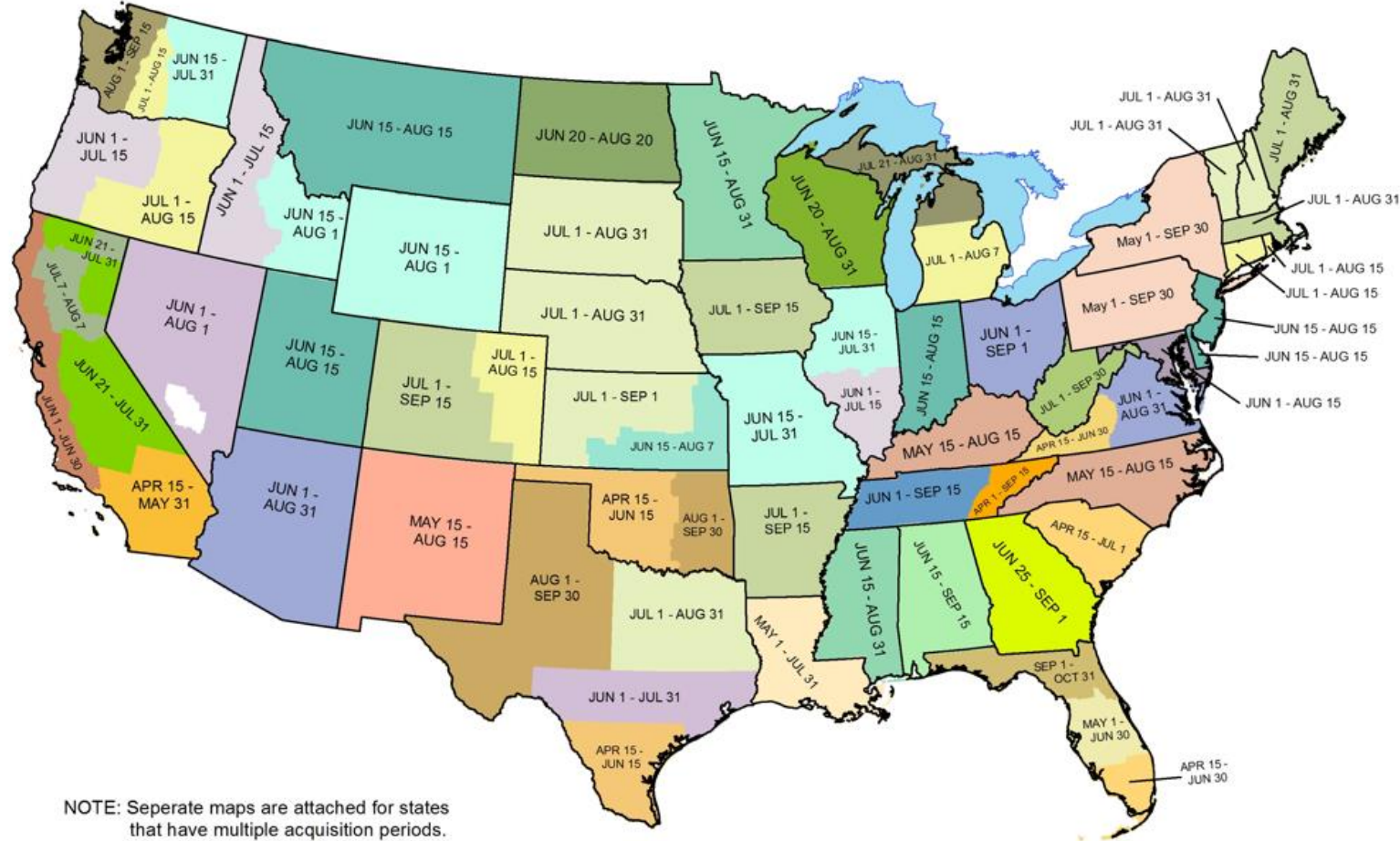
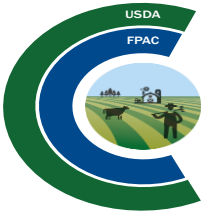
For Funding partnerships, contracting, technical or other imagery contact James Merrill at 801-844-2986



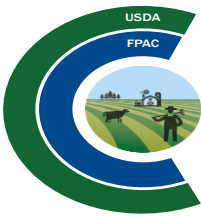
# Status Updates

- Minnesota was flown between June 15<sup>th</sup> and September 1<sup>st</sup> of 2023
  - *Primarily funded by USDA FSA & NRCS*
- Completed by SURDEX at 30cm resolution – This was a buy up done by USDA
- Expected availability – August 2024 – Large backlog of Data to be processed
- Digital Surface Model (DSM) for MN would be available approx. 2 months later\* - Requires NRCS release (NRCS purchased)
- Next planned NAIP acquisition for Minnesota 2025

# Flight Seasons for NAIP set by FSA



NOTE: Seperate maps are attached for states that have multiple acquisition periods.



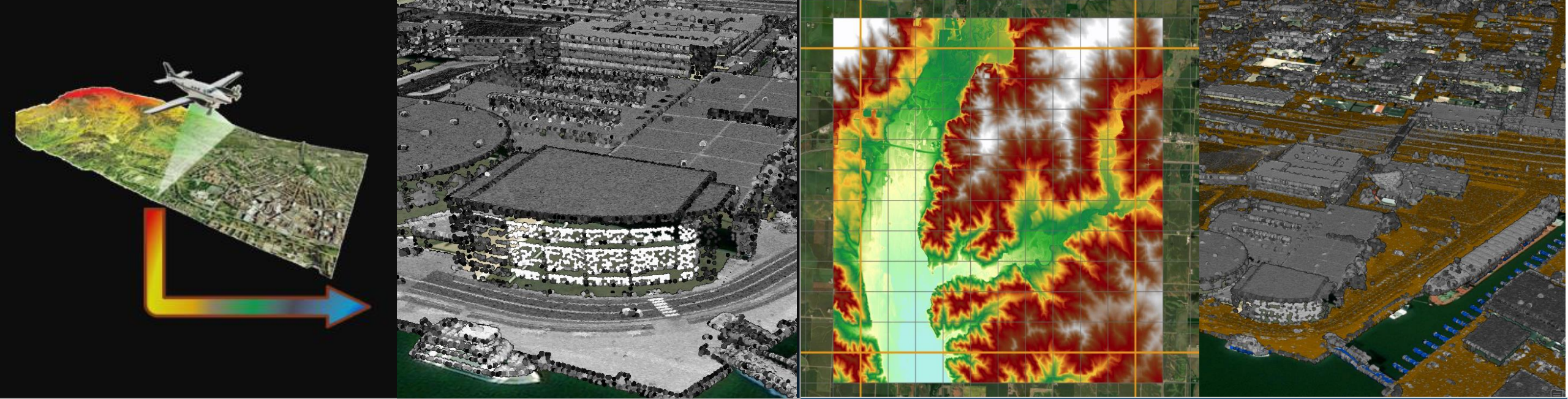
# Announcements/Reminders

- Upcoming NAIP Flights for 2025 & Beyond
  - Minnesota is tentatively scheduled for 2025 (based on funding)
  - Considering changes to NAIP moving forward
  - 60 cm is considered the NAIP standard when flown

## Statewide Lidar Status Update and Q & A Vaughn / Sjerven







# 3D Geomatics Committee Update: Status of the Minnesota Lidar Plan

May 29, 2024


- Gerry Sjerven
- Sean Vaughn
- Clinton Little

3D Geomatics Committee

# Committee Development Standards

## GAC Priority Description:

- New Lidar data acquisition across Minnesota for use in developing new derived products guided by committee developed Standards.



GAC Rank	Project or Initiative Name
1	All public geospatial data in MN to be free and open to everyone
2	Updated and aligned boundary data from authoritative sources
3	The implementation of an archive for Minnesota geospatial data
4	Statewide publicly available parcel data
5	Improvements to the MnGeo Imagery Service, such as Web Mercator support, tiling, and complementary options such as “composite of latest leaf off imagery”, and downloading options
6	Accurate hydro-DEMs (hDEM) that serve modern flood modeling and hydro-terrain analysis tools, and the development of more accurate watercourses and watersheds
7	Statewide publicly available road centerline data
8	New LiDAR data acquisition across Minnesota for use in developing new derived products guided by committee developed standards
9	An emergency management damage assessment data standard to provide an accepted specification to support a request for State or Federal assistance after a disaster
10	Statewide publicly available address points data
11	Maps, procedures, templates and other materials to help all levels of government implement the U.S. National Grid
12	A parks and trails data standard
13	A forum (committee, workgroup, etc.) for MN geospatial professionals to discuss and share best practices, standards, lessons learned, etc. for implementing and supporting the geospatial components of NG9-1-1



# Geospatial Advisory Council (GAC) **3D** **Geomatics Committee**



## Geospatial Advisory Council

- The Minnesota *Geospatial Advisory Council (GAC)* is the coordinating body for the Minnesota geospatial community.
- **Cross-section of organizations** that include counties, cities, universities, business, nonprofit organizations, federal and state agencies, tribal government, and other stakeholder groups.

## 3D Geomatics Committee

- The **3D Geomatics Committee (3DGeo)** is a chartered committee under GAC that works to identify and promote the need for planning, funding, acquisition, and management of three-dimensional geomatic data and derived products.

# 3DGeo - Data Acquisition Subgroup

## Mission:

- The Data Acquisition Subgroup promotes procurement of foundational 3D data for Minnesota.

## Co-Chairs

- Sean Vaughn, Alison Slaats, and Gerry Sjerven, Clinton Little

## Lidar Acquisition Subgroup:

- Alison Slaats (MnGeo), Sean Vaughn (MNIT DNR), Gerry Sjerven (MN Power), Clinton Little (DNR), Jennifer Corcoran (DNR), Colin Lee (MnDOT), Matt Baltes (NRCS), Joel Nelson (U of MN), Joe Sapletal (Dakota Co), Mark Reineke (Widseth), and Brandon Krumwiede (NOAA), Terry Zien (USACOE), Jill Pohjonen (DNR).



# 3DGeo Committee and Workgroup

- Update on Acquisition Status Map and successes
- Quick review of the Minnesota Lidar Hub
- Update from the Lidar-derived Hydrography Subgroup
- Questions

# 3D Geomatics: Funding, Agreements, and Acquisition

## Contributions to Minnesota Lidar (\$millions)

(\$millions)

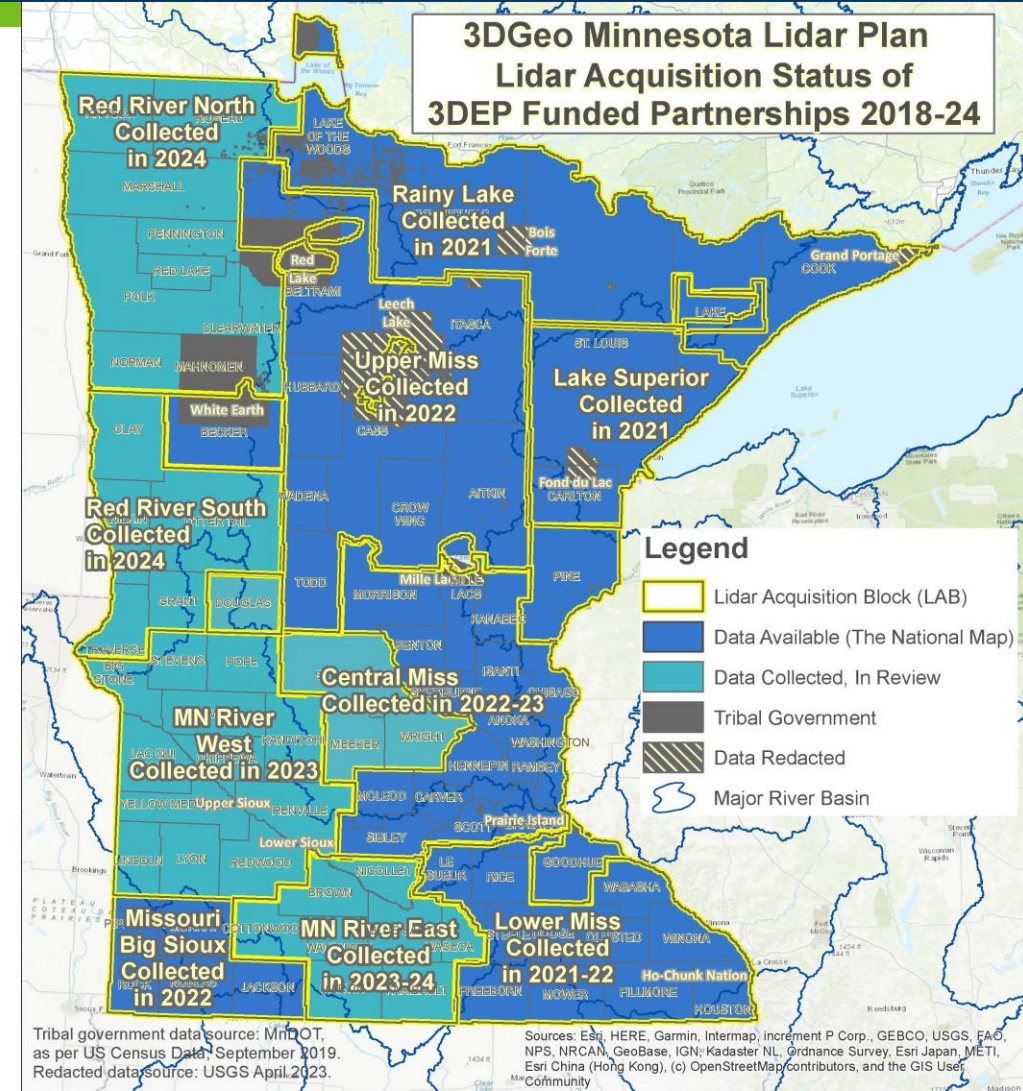
- Minnesota Partners: \$ 7.55
- USGS 3DEP: \$19.08
- Other Federal: \$ 0.45

**Total: ~\$27.08M**



## Minnesota Funding Partners

- **59** Funding Partners
- **81,500** Square Miles of New Lidar
- **\$92.59\*** Cost/mi<sup>2</sup> For MN Partners



Tribal government data source: MnDOT, as per US Census Data September 2019. Redacted data source: USGS April 2023.

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Check the MN Lidar Hub for more information and an up-to-date interactive map: <https://lidarhub-minnesota.hub.arcgis.com/>

0 25 50 100 Mi Map Date: May 21, 2024

\* Estimated per mi<sup>2</sup> of lidar. 59 unique funding partners and local tax dollars working collaboratively for consistent data acquisition. \$92.59 value: 1) not specific to a LAB, 2) total partner contributions of \$7,545,761.44 (10/04/2023), 3) doesn't include federal contributions

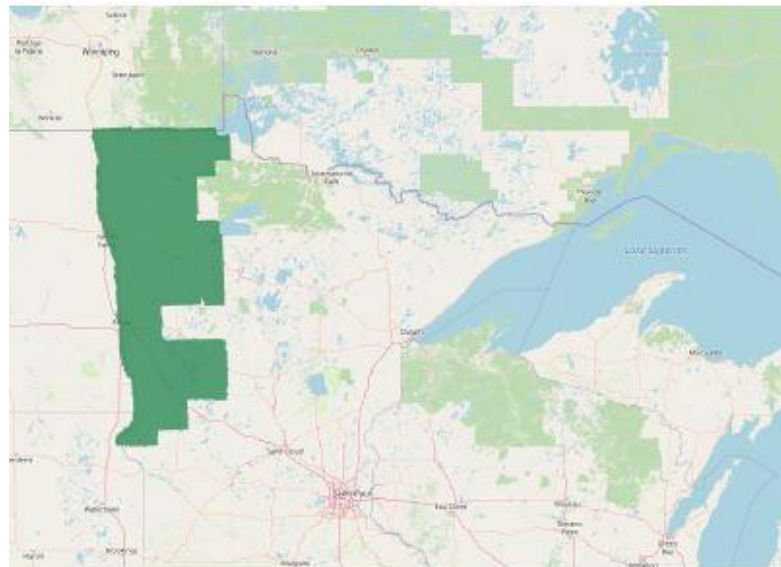


# Acquisition Update – Red River Watershed

## Acquisition Report

### Acquisition Status Summary

Status	# Lines	Line Miles	% of Total
Uncollected	0	0.0	0.00%
Collected	0	0.0	0.00%
Accepted	315	15,573.3	100.00%

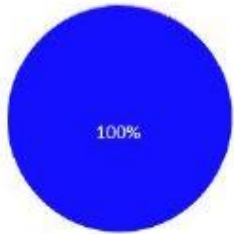


# Acquisition Updates – Minnesota River East

MN RiverEast B23

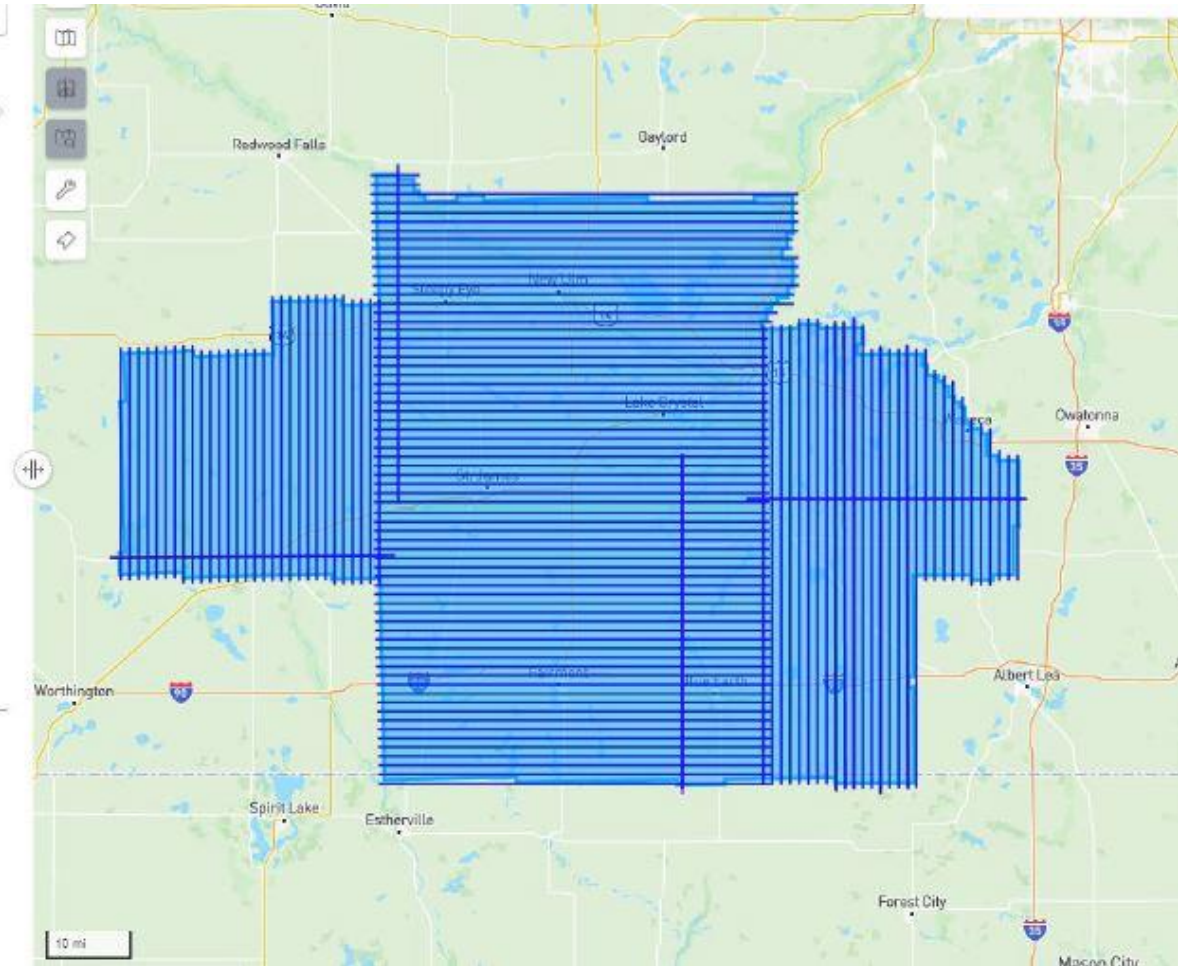
Acquisition

04/11/2023 - 04/19/2024

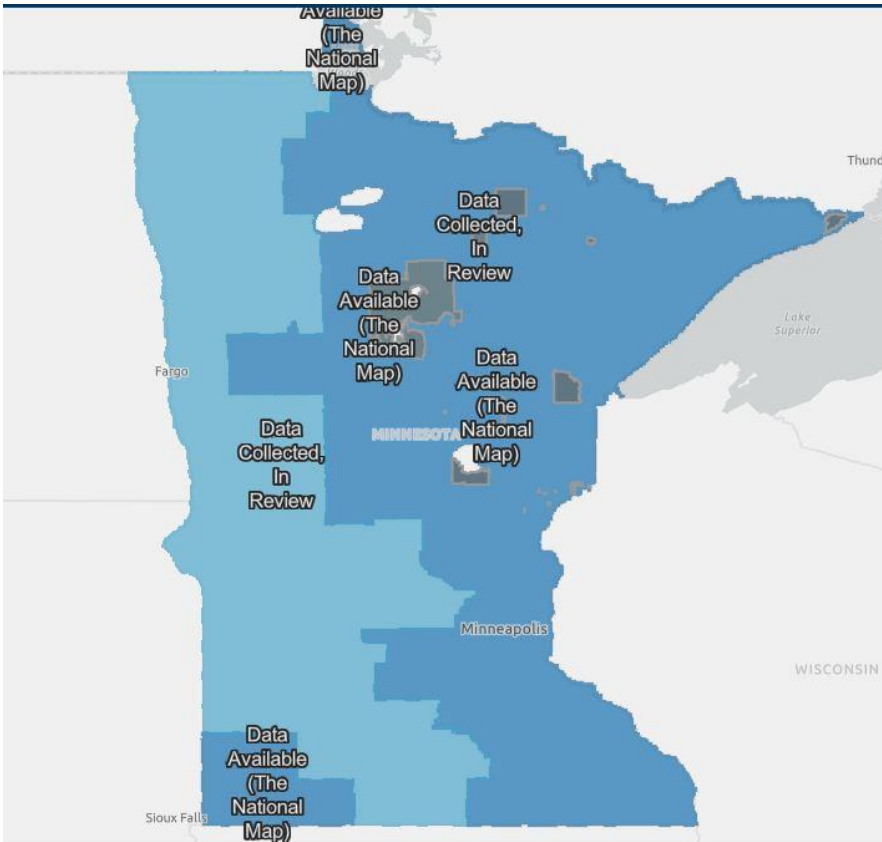


Status	Percent
Not Acquired	
Refly Required	
Under Review	
Accepted	100%

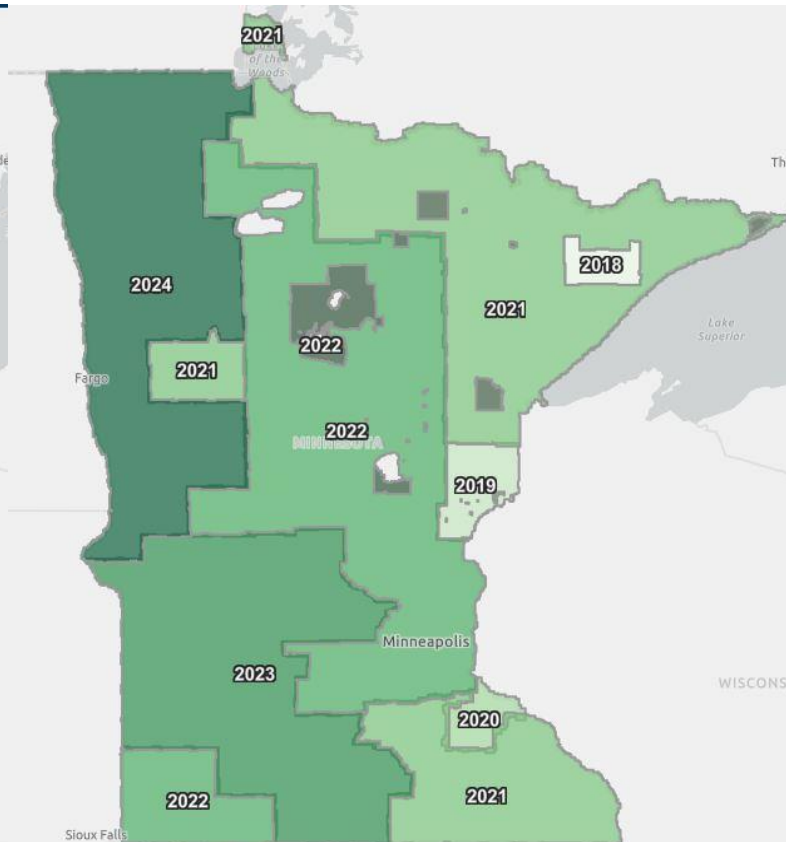
Collection Over Time



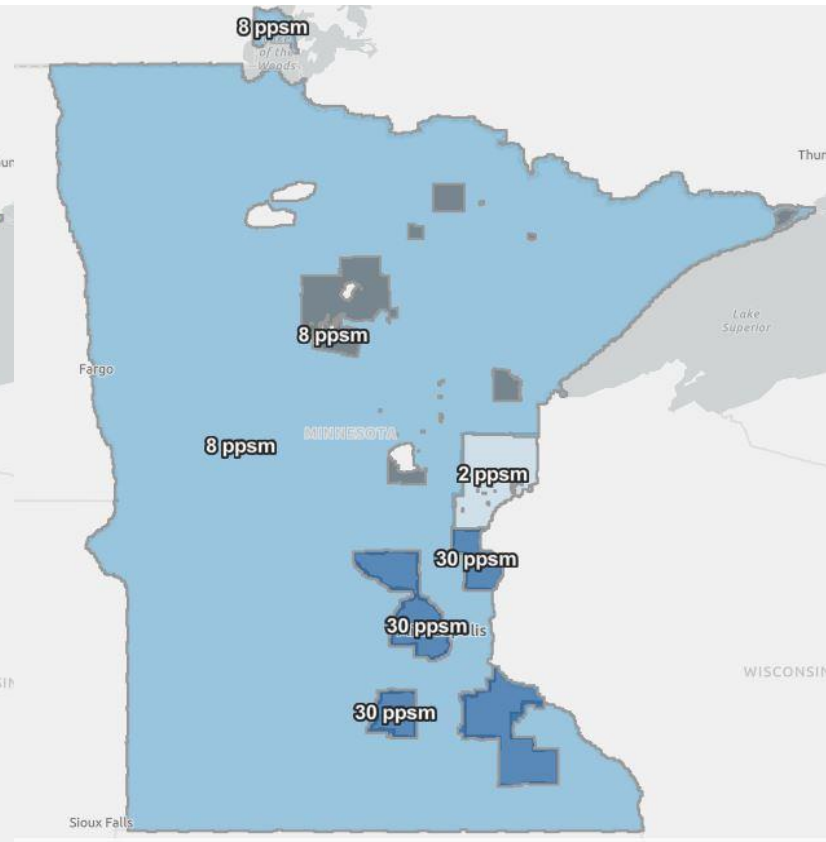
# Minnesota Lidar Hub



3DEP Status



Flight Year



Points Per Square Meter

# 3DGeo - Lidar-derived Hydrography Subgroup

- **Mission Statement**

- **Team** of hydrography data stewards, developers, managers, and users.
- **Collaborative effort** to bring **Lidar-derived Hydrography (LDH)**, developed from lidar technology, to Minnesota.
- Capitalizes on the subject matter **expertise of its membership**
- Subgroup is a community of practice (CoP) that provides a platform **for information sharing and learning** amongst its members.
- Sharing of information and expertise must be without solicitation.
- **Provides guidance and education** to stakeholders and decision makers on LDH.



# 3DGeo - Lidar-derived Hydrography Subgroup

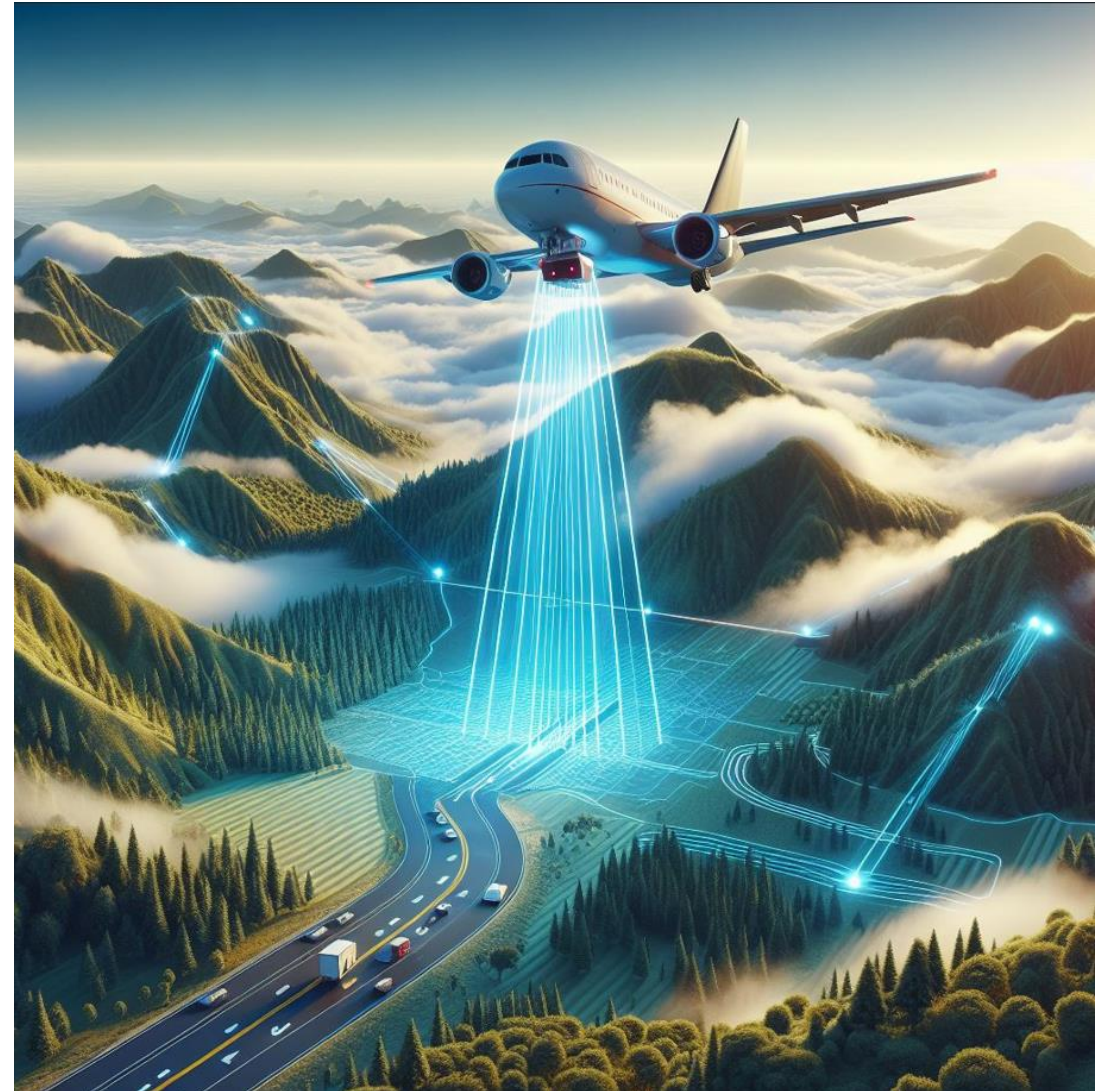
## Co-chairs Elected:

### ■ Co-chairs:

- Sean Vaughn (MNIT)
- Jamie Schulz (MNIT)
- Rick Moore (MNIT)
- Vacant

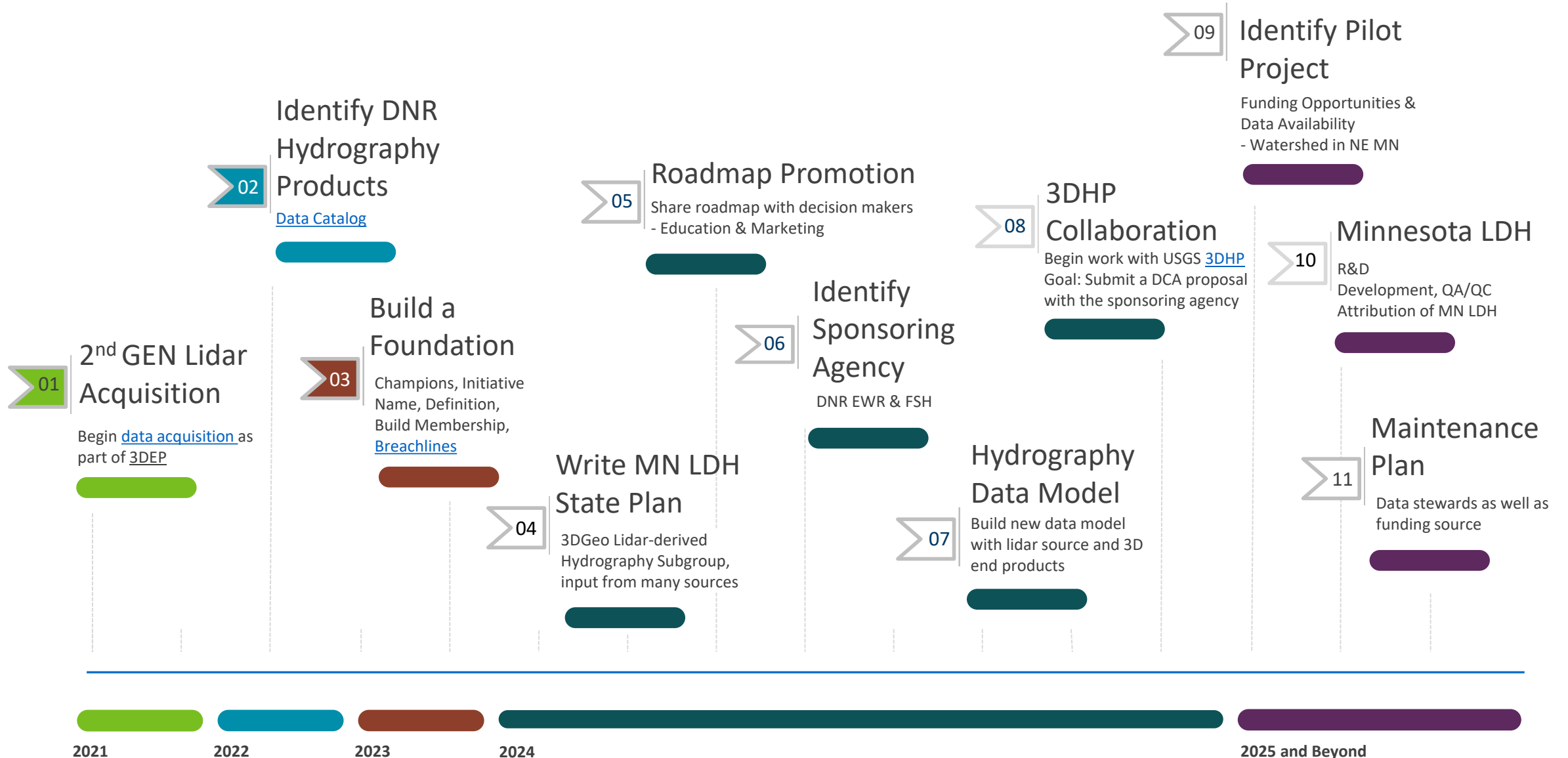
### • Liaisons:

- Clinton Little (DNR)
- Jen Crea (PCA)



# Minnesota Lidar-derived Hydrography Roadmap

Updated 4/24/2024



# 3DGeo - Lidar-derived Hydrography Subgroup

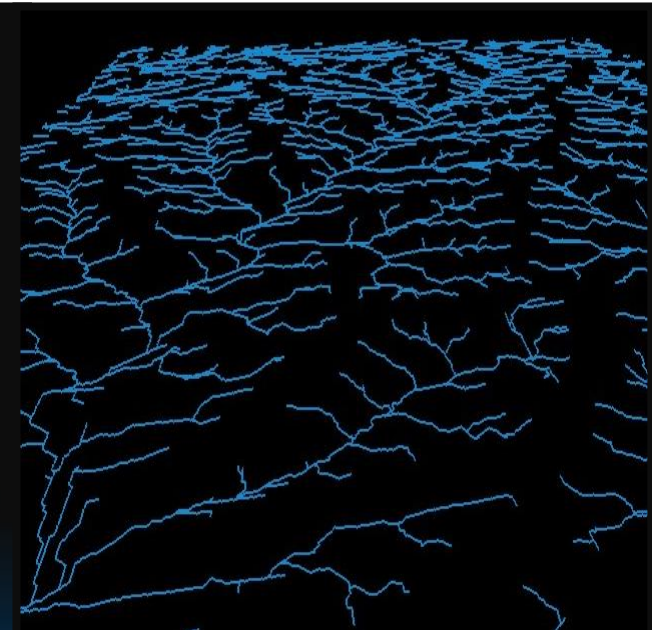
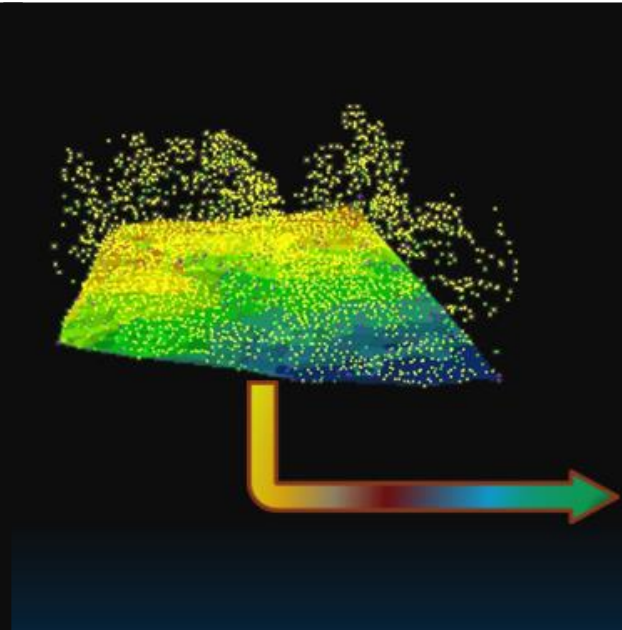
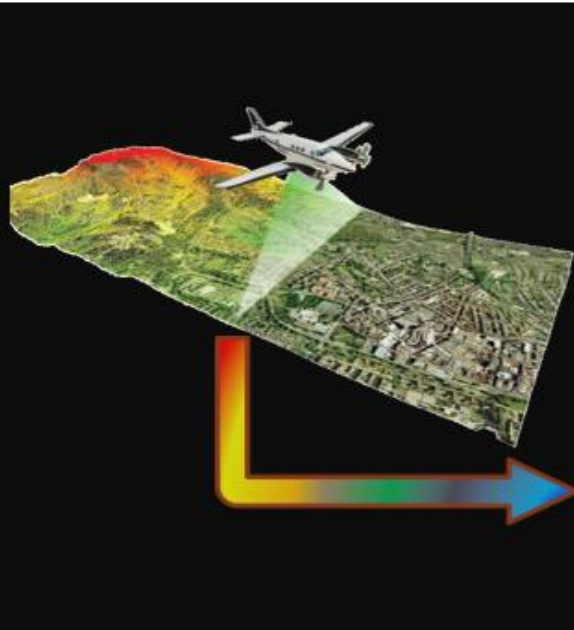
## CURRENT ACTIVITY:

- Starting work on a Minnesota Lidar-Derived Hydrography *Plan*
- Learning more about the *USGS deliverables* that are part of 3DHP
- Members of the team are scoping out efforts underway in other states (**CA, WA, MI, PA, TN**)
- Involvement in *NSGIC 3DHP For The Nation* monthly meetings
- DEM Hydro-modification Subgroup is collaborating and sharing *technical expertise* with LDH Subgroup

# 3DGeo - Lidar-derived Hydrography Subgroup

## EXECUTIVE AGENCY SPONSOR:

- This Lidar-derived Hydrography initiative will need a state agency sponsor with multiple state agencies supporting the effort.



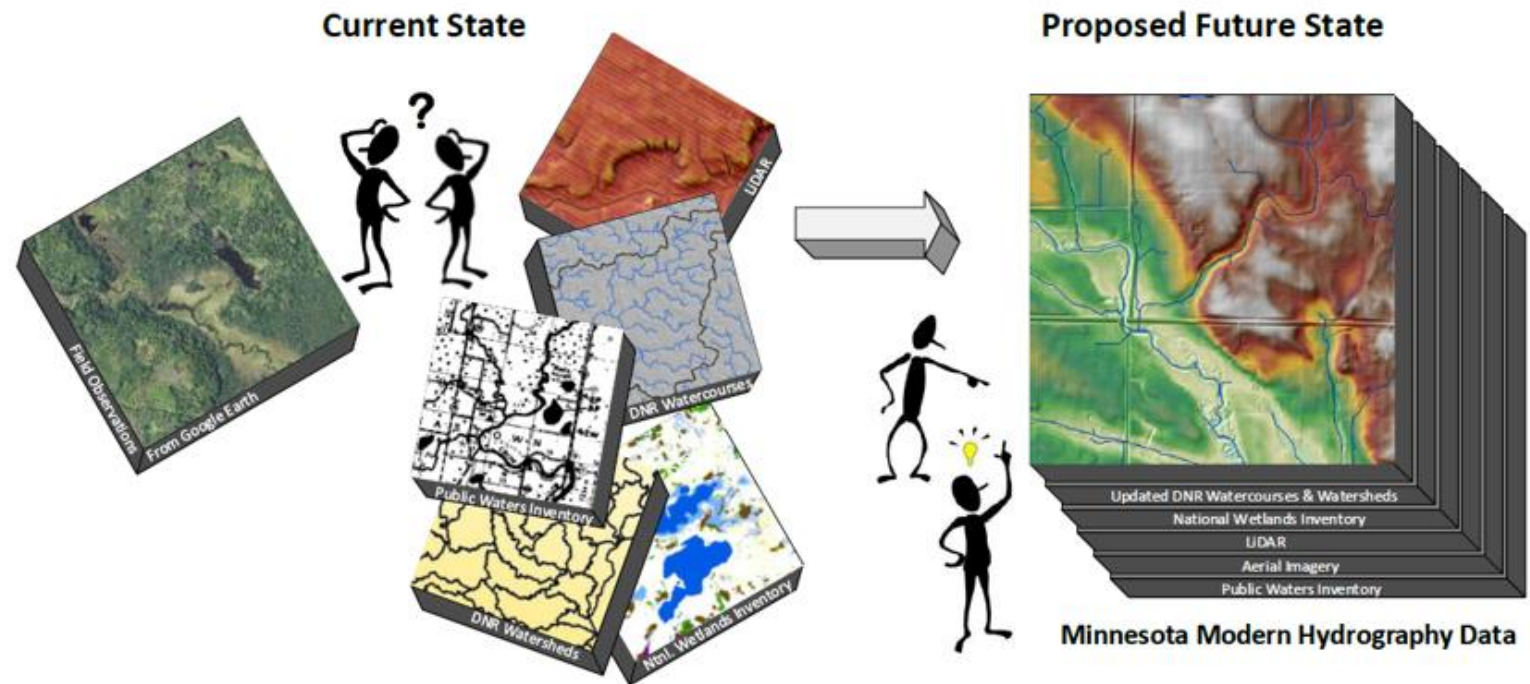


# 3DGeo - Lidar-derived Hydrography Subgroup

## GEOSPATIAL COMMUNITY:

- Work in 2024 to make this initiative a 2025 GAC Priority.

## Why We Need to Invest in Modern Hydrography Data



### Current

- Multiple, out-of-sync copies of hydrography data.
- Locations of stream centerlines based on historic maps.
- Inefficient processes for creating derived data products.
- Costly field site verifications.
- Missing data lowers public trust.

### Future

- Single, authoritative data source.
- Harmonized data that leverages recent state investments.
- Automated processes identify changes on the landscape.
- High-resolution data that minimizes field site verifications.
- Enhanced public trust in watershed management decisions.

[Sign In](#)[LidarHub](#)[Lidar Plan](#)[Lidar FAQ](#)[Status Map](#)[News](#)[About 3DGeo](#)

# Minnesota Lidar Hub

Learn about lidar and the need for a new lidar collection in Minnesota. This website provides resources, plans to acquire and support lidar, and current status information for the Minnesota Lidar Plan. The website is developed and maintained by the Geospatial Advisory Council 3D Geomatics (3DGeo) Data Acquisition Committee and facilitated and supported by the Minnesota Geospatial Information Office (MnGeo), an office of Minnesota IT Services (MNIT).

**Email us: [lidar@state.mn.us](mailto:lidar@state.mn.us)**

# Questions

**Questions...**

## ***Break and Networking***



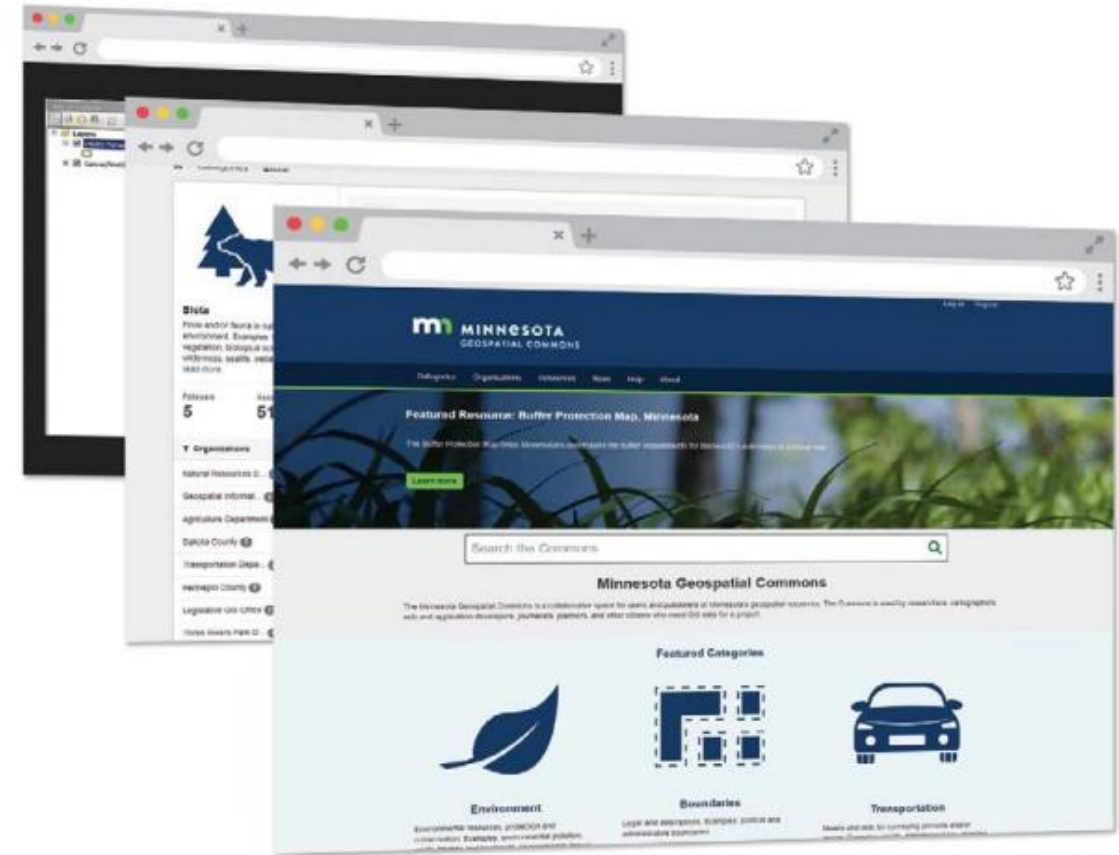


## MnGeo Updates Slaats



# MnGeo Update: Modernization of the Geospatial Commons

- MnGeo applied for, and received funds from the [MNIT Technology Modernization Fund](#)
- The Minnesota Geospatial Commons (“The Commons”) technology is aging, and nearing 10 years old
- TMF funding will enable **modernization** of Commons technology from a **file-based system to a web service model** and **improve user and publisher experience**



# MnGeo Update: Commons Project Kick Off

- Kick off meetings held during week of 5/20
  - Technical Visionary Team
  - Executive Steering Team
- Teams include members from state agency and the broader community
- June meetings and beyond
  - Scope to be finalized and approved
  - Proposal to teams for technology solution



# MnGeo Update: Commons Stakeholder Engagement

## Community Survey:

- Conducted survey requesting input from **both users and publishers**
- Received **229** responses
- **Analysis** is currently underway

## Focused Discussion Panels:

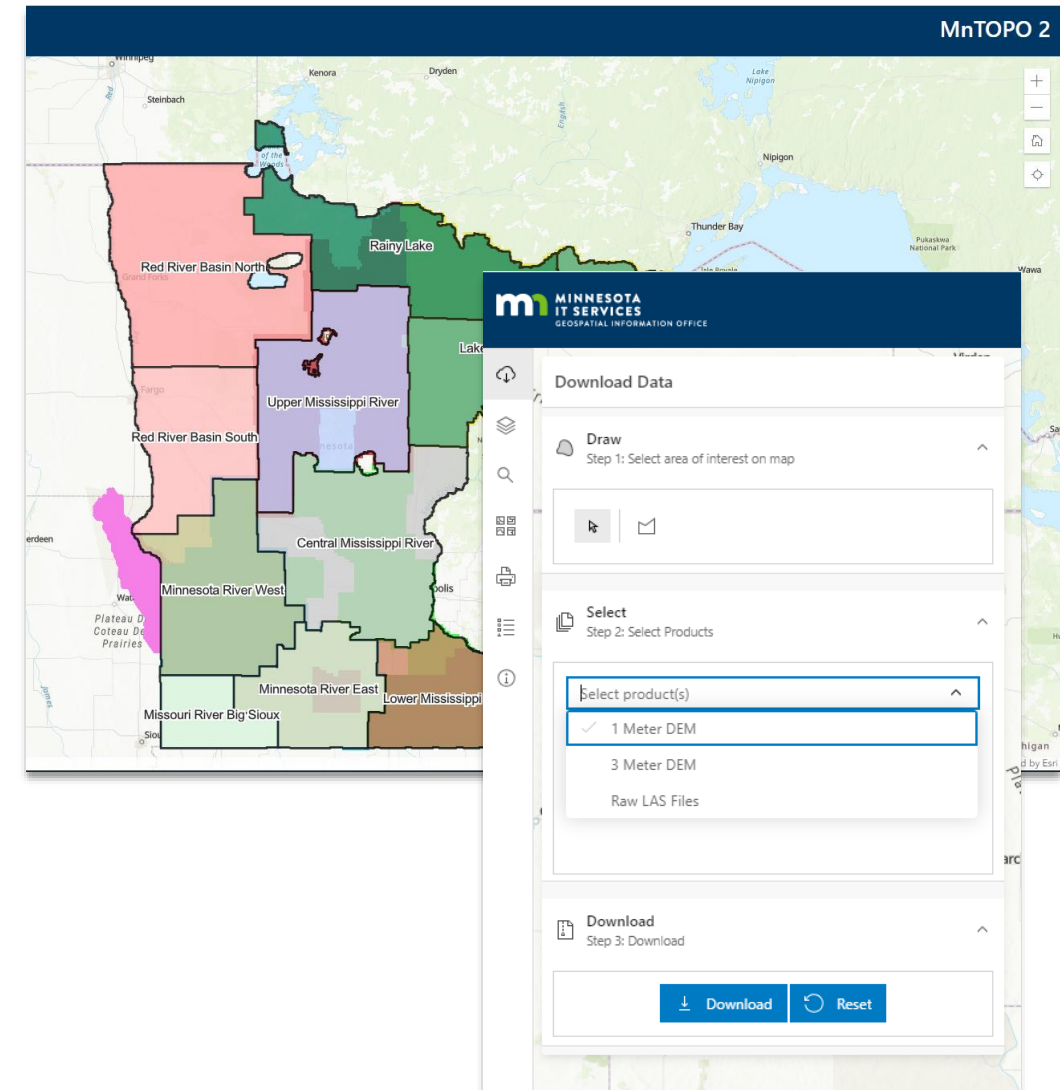
- Survey included invitation to join discussion panels/focus groups, **35 respondents** volunteered to participate
- Two meetings held: **Friday, 5/24 and Monday, 5/28**
- **Facilitated discussion** to expand on survey questions and results





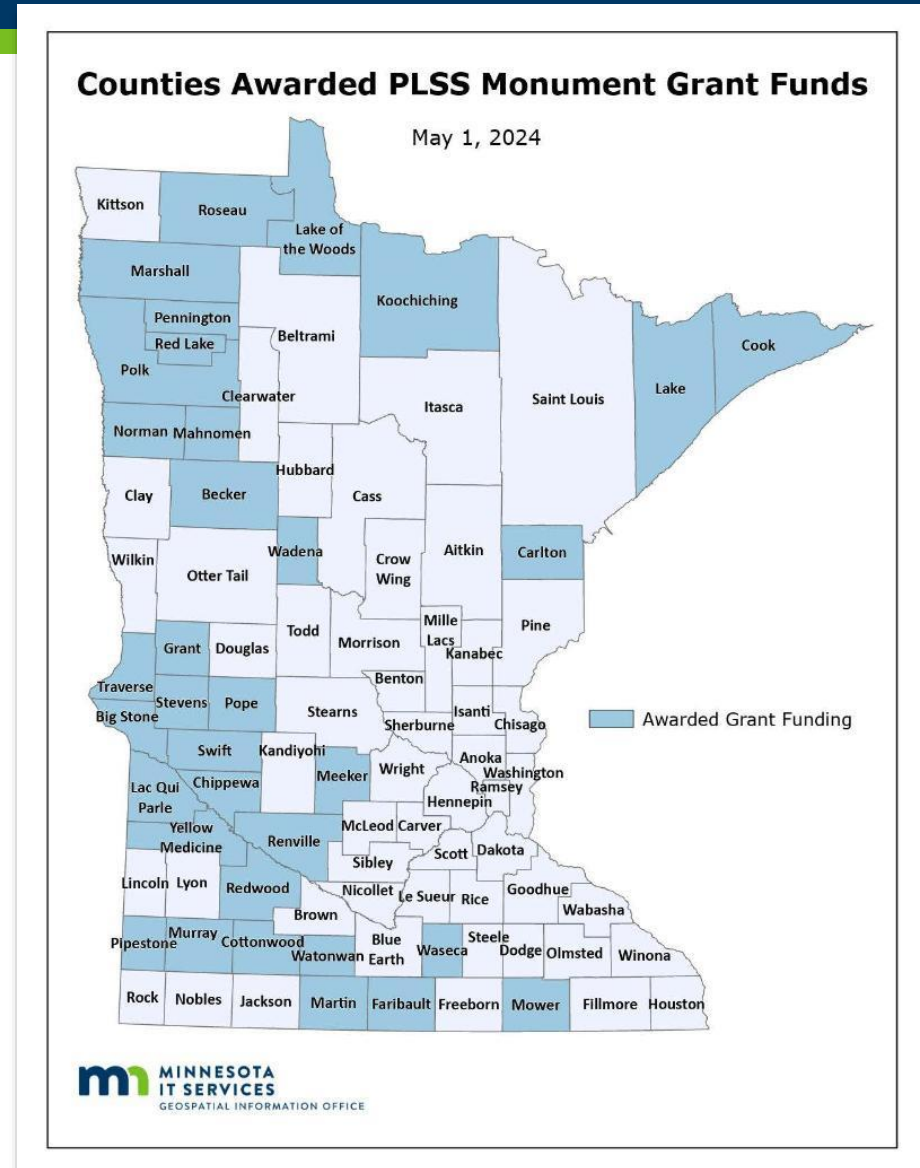
# MnGeo Update: Lidar data distribution and derivatives

- MnGeo, in partnership with the GAC 3DGeo committee, is building **MnTOPO 2** to share MN lidar data and derivatives
- The 3DGeo team is working on derivative creation methodologies and products
- These efforts have been delayed to due cloud migration, but they progressing
- In short term, lidar data, such as NE data, is available on the [USGS National Map](#)



# MnGeo Update: PLSS Monument Grant - Responses

- 65 applications were completed by 62 counties.
- \$15.5 million in funding has been requested and only \$9.1 million available
- **Awards were prioritized and selected using method outlined in the developed RFP:**
  - 34 of 62 counties received the \$9,118,000
  - 29 counties did not receive any funding
  - \$6.4 million in unmet requests
  - [Minnesota PLSS Dashboard](#)





## **Review and Approve GAC 2023 Accomplishments and 2024 Workplan Albrecht**



# GAC 2023 Accomplishments and 2024 Work Plan

Heather Albrecht | Geospatial Advisory Council Chair

# GAC Highlights from 2023

- GAC membership appointed for two-year term of July 2023 - June 2025 term, and elected new leadership
- Reprioritized GAC projects and initiatives based on community feedback gathered through the Minnesota geospatial priorities survey
- Re-energized the Outreach Committee and facilitated an Open Data discussion at the MN GIS/LIS Conference
- Established the CAN DO Workgroup (Contributing to Nationwide and Commercial Data Assets)
- Approved the PLSS Preservation Committee revised charter to support the PLSS Preservation grants
- Support the GAC committees and workgroups, who advance the priorities set by the GAC and the GIS community

## Goals for 2024:

- Continuing lidar data acquisition across Minnesota for use in developing new derived products guided by committee developed Standards
- Support the work of 3DGeo subcommittees:
  - Data Acquisition Workgroup
  - Cultural Resources Workgroup
  - Education Workgroup
  - Hydrogeomorphology Workgroup
  - Vegetation Workgroup

## Successes from 2023:

- Implemented new nomination process with draft review before final submission so the committee can provide more useful feedback for nominations

## Goals for 2024:

- Increase awareness of the Geospatial Certificate and nomination process; solicit nominations for the Geospatial Certificate

# Emergency Preparedness

## Successes from 2023:

- Completed first phase of the EPC's public facing website ([mgacepc.org](http://mgacepc.org))
- Developed award certificate program and began recognizing a volunteer each quarter
- Continued to grow EPC YouTube channel; now averaging approximately 1,900 views per year



# Emergency Preparedness

## Goals for 2024:

- Membership of greater than 50 individuals participating in EPC Project teams
- Fill EPC liaison position to the Metropolitan Emergency Managers Association
- Support the work of EPC subcommittees:
  - Critical Infrastructure Assessment Workgroup
  - Underground Utilities Mapping Workgroup
  - Geospatial Assistance Workgroup
  - U.S. National Grid (USNG) Workgroup

## Goals for 2024:

- Tell geospatial stories that can inform and influence policy makers and others seeking to improve quality of life in Minnesota
- Create a foundation for open data in Minnesota by connecting with local government data producers
- Develop and provide guidance for development of Esri hub sites for the GAC and its committees
- Promote the work of the GAC and its committees through social media outreach
- Support the work of Outreach subcommittees:
  - Open Data Subcommittee
  - Geospatial Success Stories Workgroup

# Parcels and Land Records

## Successes from 2023:

- Passage and implementation of PLSS Monument Grant Program
- Received \$9.7 Million dollars in funding from the State Legislature for remonumentation efforts
- Development of PLSS Point Standard

## Goals for 2024:

- Support the work of Parcels and Land Records subcommittees:
  - Boundary Alignment Subcommittee
  - PLSS Remonumentation Legislation Subcommittee

## Goals for 2024:

- Award \$9.1 million in grants to Minnesota Counties
- Monitor and track grant projects

## Goals for 2024:

- Maintain domains and templates for existing GAC standards
- Work with stakeholder groups to modify remaining original Governor's Council on Geographic Information (GCGI) standards to the GAC format and be adopted by the GAC.
  - Codes for Identifying Watersheds
  - Codes for Identifying Lakes and Wetland Basins

# Contributing to Nationwide and Commercial Data Assets (CAN DO) Workgroup

## Successes from 2023

- Met with Esri and Google to discuss sharing authoritative data
- Working with Esri to provide data through Community Maps program
- Opt-in statewide address point data will be included in NAD's April data release

## Goals for 2024

- Raise awareness of the need for shared “authoritative” data and identify major consumers of shared data

# GAC Work Plan for 2024: General business

- Quarterly meetings of the GAC that are open to the public
- Support the GAC committees and workgroups
- Adopt geospatial project and initiative priorities for 2024 based on priorities feedback and assessment completed in 2023
  - **Transition to a bi-annual geospatial community priorities survey to align GAC priorities with member terms (no priorities survey in 2024)**
  - **Continuously collect new project ideas to be evaluated bi-annually**
- Transition the GAC online presence to an Esri Hub site, with individual Hub sites for the various GAC committees and workgroups



# GAC Work Plan for 2024: Committee engagement

- Continuous improvement of reporting structure for GAC committees, workgroups, and priority projects
- Establish an Executive Team to guide GAC operations in coordination with the Leadership Team and in alignment with committee chairs
- Foster GAC member-committee relations and opportunities for engagement:
  - Increase sector reports and committee presentations during the GAC meetings
  - Increase GAC member participation within committees and workgroups
- Establish a new committee for GIS in K-12

# GAC Work Plan for 2024: Looking ahead

- GAC Member Orientation:
  - Establish a bi-annual GAC member orientation to coincide with the beginning of GAC two-year terms.
  - Host an orientation for GAC members prior to the first GAC meeting of the two-year term beginning 2025/2026 term.
- Set GAC two-year term priorities by December of the first term year
- Fill open GAC membership positions:
  - City, Greater Minnesota (unfilled)
  - County, Twin Cities metro (position to be vacated upon Commission Reinhardt's retirement)

## **Priority Projects and Initiatives Updates** Maddox



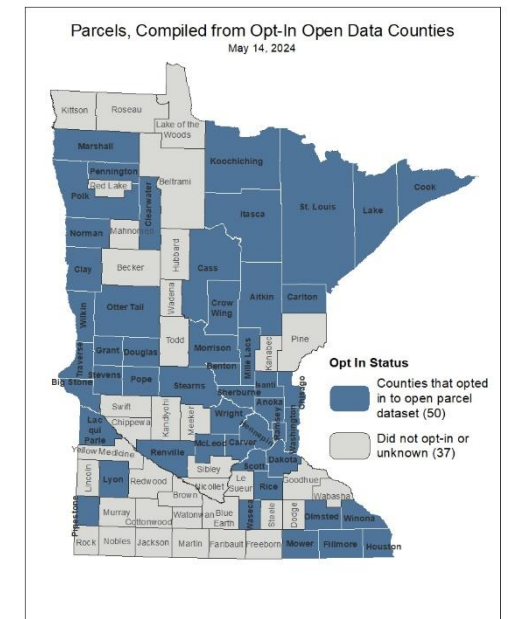
# Priority Project Update: Statewide Parcel Data

**Most Recent Success:** 50 Minnesota Counties contributing

**Next Activity/Task:** Continue to meet every 6-weeks, with a goal of each committee member contacting/adding at least one new county to each opt-in dataset during this 6-week period.

**Barriers:** *None*

**Request for Assistance:** Need more participation in outreach to county data producers.



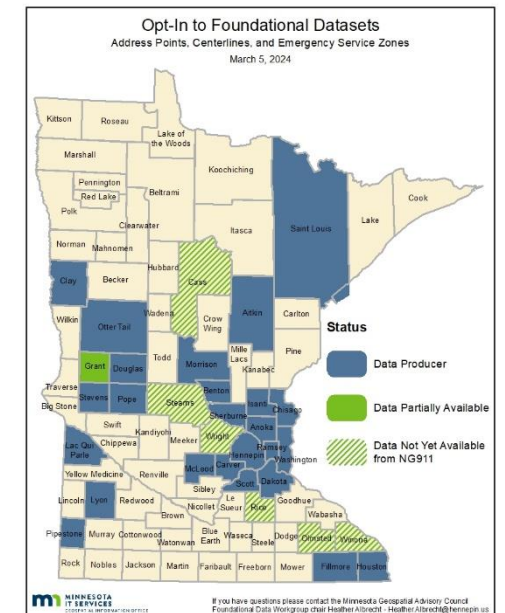
# Priority Project Update: Statewide Address Points Data

**Most Recent Success:** 32 Minnesota Counties committed

**Next Activity/Task:** Continue to meet every 6-weeks, with a goal of each committee member contacting/adding at least one new county to the opt-in dataset during this 6-week period.

**Barriers:** *None*

**Request for Assistance:** Need more participation in outreach to county data producers.



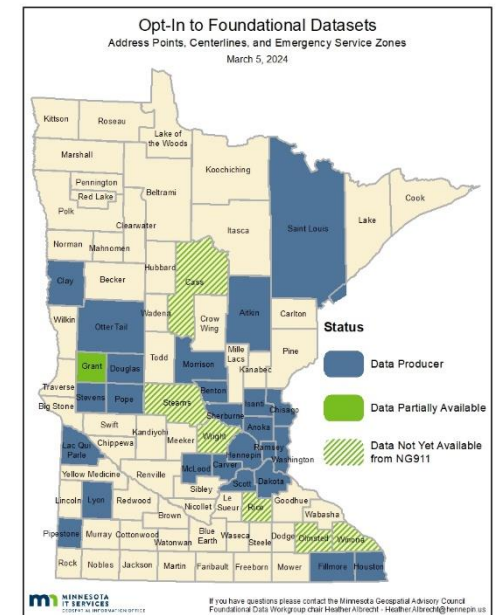
# Priority Project Update: Statewide Road Centerline Data

**Most Recent Success:** 31 Minnesota Counties committed

**Next Activity/Task:** Continue to meet every 6-weeks, with a goal of each committee member contacting/adding at least one new county to the opt-in dataset during this 6-week period.

**Barriers:** *None*

**Request for Assistance:** Need more participation in outreach to county data producers.





# Priority Project Update: Publication of Open Foundational Datasets

**Most Recent Success:** May 1st Open Data Discussion between GAC Open Data Workgroup members, MnGeo, MCGISA, SECB GIS Workgroup. Topics included:

1. Why open data is a priority?
2. Explaining the GAC opt-in process
3. What happens to the data MnGeo collects?
4. Benefits of open data to all

**Next Activity/Task:** Continue to meet every 6-weeks, with a goal of each committee member contacting/adding at least one new county to the opt-in dataset during this 6-week period.

**Barriers:** *None*

**Request for Assistance:** Need more participation in outreach to county data producers.

*See each individual dataset update for more details.*

# Priority Project Update: More Fully Attributed Statewide Parcel Data

## **Most Recent Success:**

- Gathered stories
- Submitted presentation to MN GIS/LIS

## **Next Activity/Task:**

- Continue to gather stories
- Collect information on barriers to contributions by counties
- Identify technical support needs

**Barriers:** Time to focus on this

**Request for Assistance:** *None*

# Priority Project Update: Critical Infrastructure Data Workflow

**Most Recent Success:** Some new ideas for how to fund some of this work

## **Next Activity/Task:**

- Cleaning up/ Reorganizing C.I. Data resource webpage
- Information sharing with HSEM
- Consider a process for MnGeo endorsement of datasets

**Barriers:** *None*

**Request for Assistance:** MnGeo is supporting the re-organization and updates of the Critical Infrastructure web pages.

# Priority Project Update: Underground Utilities Data Sharing Team

## Most Recent Success:

1. Project Team meetings during reporting period (2/4): March 14, June 13 (planned)
2. Complete development of a statewide system which can aggregate diverse utility geospatial data and make same available for testing by select utilities and others: Software product, FuzionView ([fuzionview.org](http://fuzionview.org)), currently rated at 74% complete
3. Deliver at least one presentation about overall team efforts at an established community appropriate conference (or webinar): To date six presentations have been completed.
4. Publish at least one article about the Project Team in a publication of importance to the industry: No activity to date, however a professional writer has been retained by the project for publication of articles later this year.
5. Continue efforts to develop project champions in the underground utility and regulatory communities: Chair Cederberg and Vice-Chair Swazee continue active outreach efforts, most recently at the Common Ground Alliance Annual Conference, Colorado Springs, CO

**Next Activity/Task:** Continue working toward achievement of 2024 Work Plan goals

**Barriers:** Being handled dynamically by Project Team as they occur

**Request for Assistance:** Nothing specific to the MGAC at this time

## Additional Comments:

- In addition to meetings of the Project Team, the UUMPT Leadership Team has been meeting at least once a month. Software development personnel and data providers have been meeting at least twice a week.
- Project funding currently pledged at \$300,000. A grant request has been submitted to PHMSA for an additional \$100,000.
- The U.S. Government Accountability Office (GAO) has asked for a presentation on FuzionView so they can determine if the software can be used to aggregate geospatial data for abandoned oil field gathering pipelines. Presentation will occur on June 3.

# Priority Project Update: U.S. National Grid Materials

## Most Recent Success:

1. Project Team meetings (USNG Implementation Work Group) during reporting period (3/4): January 24, April 24, June 19 (planned)
2. Complete development of the USNG Institute's three sponsored websites: Ongoing
3. Develop documentation for USNG map production: No progress this period
4. Assist other government entities with publication of USNG maps for their areas of responsibility: No progress this period
5. Complete USNG map and mapbook publishing application on USNG Center ([www.usngcenter.org](http://www.usngcenter.org)): Ongoing
6. Continue development of USNG instructional videos: No progress this period
7. Conduct workshops and presentations: MN GIS/LIS Annual Conference and Illinois GIS Association Conference are planned for later this year

**Next Activity/Task:** Continue working toward achievement of 2024 Work Plan goals

**Barriers:** Being handled dynamically by Project Team as they occur

**Request for Assistance:** Nothing specific to the MGAC at this time

**Additional Comments:** In addition to the national USNG Implementation Work Group meetings which are principally sponsored by this Project Team, the members of this project team participate in the quarterly meetings of the U.S. National Grid Institute: March 12, May 14

# Priority Project Update: Culvert Data Standard

**Most Recent Success:** There are no new updates. Continue to work with submitted data to compare attributes.

**Next Activity/Task:** Continue to work with submitted data to compare attributes.

**Barriers:** Lidar data derivatives creation has become priority. Looking to find time to evaluate the attributes.

**Request for Assistance:** *None*



# Priority Project Update: Planned Land Use Data Standard

**Most Recent Success:**

**Next Activity/Task:**

**Barriers:**

**Request for Assistance:**

# Priority Project Update: Updated & Aligned Boundary Data

**Most Recent Success:** Committee met March 12th and started moving toward a PLSS point standard which will facilitate boundary alignment. Also working on a potential alignment of Minnesota/Wisconsin State line in Houston County.

**Next Activity/Task:** Continue working on PLSS Point standard and alignment procedures.

**Barriers:** Volunteer time

**Request for Assistance:** *None*

# Priority Project Update: Statewide County Boundary Dataset

**Most Recent Success:** Have a preliminary meeting scheduled for May 20th with Ben Timerson, Megan Sisko, and Kory Thurnau to see how we get started on this project.

**Next Activity/Task:** Schedule a kick-off meeting with the group. The current group consists of employees of state agencies and Met Council. Move forward with the plan developed by Megan and Kory.

**Barriers:** *None*

**Request for Assistance:** Currently the group consists of just state government and MetCouncil members. We need some people to represent other backgrounds and areas of interest, especially Counties. If you are interested in being on this project, please contact [benjamin.timerson@state.mn.us](mailto:benjamin.timerson@state.mn.us).

# Priority Project Update: Lidar Data

*See lidar status update slides.*

# Priority Project Update: Hydro-DEMs

*See lidar status update slides.*

# Priority Project Update: Statewide Imagery Program

**Most Recent Success:** Interest is growing and a new member joined the effort last month. Members have met a handful of times and had several follow-up discussions with colleagues. Topics include how image acquisition programs have been run in the past and in other states, funding and potential partnership opportunities, and what are the next steps.

**Next Activity/Task:** Needs assessment; build a case and gather partnerships. Create a community survey and summarize what works in other states. Consider a Request For Information proposal.

**Barriers:** Consider renaming the effort and take the word "Program" out because this may be misleading without dedicated funding. Consider Initiative. Members need to determine if this a Committee or a Working Group. The season of-interest can determine what partnerships may come to the table (e.g., most counties need spring leaf-off, but USDA needs leaf-on).

**Request for Assistance:** It would be valuable to continue to work with MnGeo staff to discuss progress and goals, until there is more of a formal Committee or Working Group established.



# Priority Project Update: Geodata Archive Implementation

**Most Recent Success:** Within the Big Ten Geospatial Information Network, we have launched a Geodata Collection Pilot Working Group to create a sample set of geodata and develop preliminary recommendations for building a geodata collection.

**Next Activity/Task:** Determining costs and software options for different ways of implementing an archive. Based on our report, we have been given the green light to proceed. We hope to receive more formal approval in late May.

**Barriers:** The main barrier for this work over the past six or so years has been a lack of funding, but we're hoping to work around that by building the archive for the entire Big Ten Geospatial Information Network.

**Request for Assistance:** Not so much assistance as (future) input -- how can we leverage this to archive Minnesota data? Would a Big Ten Geodata Archive serve the need for a Minnesota Geodata Archive?

# Priority Project Update: Success Stories for Geospatial Technology

**Most Recent Success:** The workgroup has been meeting with the Minnesota Geospatial Information Office (MnGeo) and Minnesota IT Services (MNIT) to understand the capacity in which this workgroup can communicate with the public to achieve its goals.

**Next Activity/Task:** Will continue to work among the workgroup and with MnGeo and MNIT to meet goals.

**Barriers:** *TBD*

**Request for Assistance:** *None*

# Priority Project Update: K-12 GIS Resources Group

**Most Recent Success:** We have developed the charter to present on May 29.

**Next Activity/Task:** Once the charter is approved, we will start working through tasks and report back.

**Barriers:** *None*

**Request for Assistance:** *None*

# Priority Project Update: Remonumentation of all original federal Section Corners

**Most Recent Success:** MnGeo received 70 Applications from 65 counties for over \$16 million dollars. 34 counties were awarded grants for \$9.1 million dollars. Grant work started on May 16th.

**Next Activity/Task:** We need find permanent funding for remonumenting all the corners in Minnesota so we can keep this program moving forward.

**Barriers:** Proposed legislation for 2024 did not go anywhere. We are working on Legislation for next year.

**Request for Assistance:** We need find permanent funding for remonumenting all the corners in Minnesota so we can keep this program moving forward.

# Priority Project Update: Statewide Survey Records Inventory

**Most Recent Success:** We created a list for Douglas and Grant County.

**Next Activity/Task:** Work on other counties.

**Barriers:** It is hard to get information from other counties that do not have a County Surveyor.

**Request for Assistance:** This is not a big project for counties to complete but just need someone to do it.

## **St. Cloud State University Letter of Support All**





## **Announcements or Other Business**

All



# Reminder: Next Meeting

**Wednesday, September 18, 2024**

**11:00 AM - 2:00 PM**

Online via Teams

# Agenda Item 13

**Adjourn**  
**Albrecht**



# Thank You!

**Minnesota Geospatial Advisory Council**

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