

Minnesota Geospatial Advisory Council Meeting

December 18, 2024 10:00 AM - 12:00 PM

This meeting will be recorded for transcription purposes only.

Meeting Options

• Virtual: Online via Microsoft Teams

Agenda

Call to order (Albrecht) a. Introductions	10:00	10 min
b. GAC Mission Reminder		
c. Approval of Agenda*d. Approval of <u>Meeting Minutes from September 18, 2024</u>	1*	
Review and accept Committee Reports* (Albrecht)	10:10	5 min
3. National Geospatial Advisory Committee Update (Mattke)	10:15	5 min
4. Archiving Committee Proposal (Mattke)	10:20	10 min
5. Outreach Committee Update and Call for Volunteers (Fendos)	10:30	20 min
6. Executive Team Goals Update (Albrecht)	10:50	20 min
7. Break	11:10	10 min
8. Farewell to Commissioner Reinhardt (Albrecht / Slaats)	11:20	5 min
9. MnGeo Update (Slaats)	11:25	10 min
a. Government-Owned Lands Datasetb. Geospatial Commons Modernization		
c. MnTOPO 2		
d. PLSS Grant and Legislation		
10. GIS Day Recognition and Round Robin (Wakefield / Brandt / All	11:35	15 min
11. Round Robin / Announcements (All)	11:50	10 min
12. Adjourn* (Albrecht)	12:00	

^{*} Motion needed

Committee Reports

These reports include updates on each committee's 2024 Minnesota Geospatial Advisory Council Priorities.

3D Geomatics Committee

Responsible Priority Projects and Initiatives

- Culvert Data Standard
- Hydro-DEMs
- Lidar Data

Most Recent Successes

• Minnesota's second generation (2ndGen) lidar is incredibly voluminous. Processing this data takes time. Simply moving the data within Azure cloud resources can take weeks to complete. Standards, guidelines, and QA/QC procedures continue to be created to help guide the process. We continue our R&D work to develop protocols for the data architecture and assembly of seamless data that is stitching together the different lidar acquisitions for effective and efficient data storage and dissemination. Key 3DGeo members from MNIT DNR and MnGeo staff continue to work collaboratively to build out the data architecture and lidar-derived products.

Next Activities / Tasks

- 3DGeo committee members continue testing of the data.
- Findings will be made available to the GAC before going public.

Barriers

- Some users of MnTopo-1 believe the newly acquired data is available through the website. It is not, it is still legacy data. We are working with the DNR to add a note to the MnTOPO-1 Application website to notify users.
- Funding continues to be a barrier for the Hydro-DEM Priority.

Additional Priority Projects and Initiatives Updates

 The hydro-modified DEM (Hydro-DEM) GAC Priority remains an unsupported initiative, yet it is critical for making lidar-derived DEMs suitable for hydrological applications. Therefore no progress has been made.
 Having Hydro-DEMs recognized as a GAC priority continues to bring awareness to the need for funding hydro-DEM development for Minnesota.

Request for Assistance

None

Content contributed by Gerry Sjerven and Sean Vaughn on behalf of the committee.

Awards Committee

Responsible Priority Projects and Initiatives

None

Most Recent Successes

• None since last update

Next Activities / Tasks

• Solicit award nominations

Barriers

None

Additional Priority Projects and Initiatives Updates

N/A

Request for Assistance

None

Content contributed by Philipp Nagel on behalf of the committee.

Contributing to Nationwide and Commercial Data Assets Committee

Responsible Priority Projects and Initiatives

• Publication of Open Foundational Datasets

Most Recent Successes

- Successfully shared Centerlines and Address Points from 10 counties with the Esri Community Maps Program as a pilot through MetroGIS. This data is now being used in the Esri World Geocoding Service.
- Ramsey and Washington worked with Esri on the process to improve TomTom centerline data. Washington County data review is complete and live in TomTom. Ramsey review is still underway.

Next Activities / Tasks

- Continue working with Esri on the Community Maps Program/TomTom update process.
- Expand the number of counties included in submission of data through the Community Maps Program.
- Continue to work with Apple and Google to share our authoritative data.
- Recommend Open Data license type (PRRL v1.0 with CCO as second option).

Barriers

Availability of statewide address point and centerline data that can be shared.

Additional Priority Projects and Initiatives Updates

None

Request for Assistance

None

Content contributed by David Brandt on behalf of the committee.

Data Endorsement Committee

Responsible Priority Projects and Initiatives

None

Most Recent Successes

• Approval of Ad-Hoc Committee by GAC at September meeting

Next Activities / Tasks

- Recruitment of members
- Set up kick off meeting

Barriers

• Time to commit to the effort

Additional Priority Projects and Initiatives Updates

N/A

Request for Assistance

• Any GAC members who would like to participate, contact Alison Slaats

Content contributed by Alison Slaats on behalf of the committee.

Emergency Preparedness Committee

Responsible Priority Projects and Initiatives

- Underground Utilities Data Sharing Team
- Critical Infrastructure Data Workflow
- U.S. National Grid Materials

Most Recent Successes

Full Committee / Leadership Team

- 1. Full committee meetings during CY reporting period (3/4): April 4 (peak attendance: 62), June 6 attendance 46), September 12 (attendance 26), December 12 (planned).
- 2. Leadership team meetings during CY reporting period (4/4): February 12, May 2, September 5, December 3.
- 3. IT infrastructure development: Ongoing.
 - EPC website currently tracking to have over 2,900 page views this year, up from 2,000 in 2023 (https://mgacepc.org/).
 - EPC YouTube channel now at 7,650 video views since inception (https://www.youtube.com/channel/UC3hwp5 9t3BkiTt-hyALArg).
- 4. EPC liaison to the Metropolitan Emergency Managers Association (MEMA): Ongoing. Duties assumed by Britta Maddox after retirement of Randy Knippel on May 31, 2024.

Critical Infrastructure Assessment Project Team

- 1. Project Team meetings during CY reporting period 6/8): January 25, April 15, May 13, June 10, July 22, August 26, October 7, and December 9 (planned).
- 2. Document a long-term workflow to keep fire, law enforcement data verified annually by MN counties: Ongoing.
- 3. Document a long-term workflow to maintain the critical infrastructure resource list on the MnGeo website:
 - During MGAC meeting of September 18, a plan was approved to stand up a workgroup to develop the methodology for endorsing statewide geospatial data sets.
 - This development has helped narrow the focus of Project Team to identifying which publicly available data sets are critical, creating methodologies to keep them current, and then ensuring there is a unified approach in displaying that information.
- 4. Coordinate with and contribute to GAC committee to establish National data relationships (Alison Slaats): Meeting held on May 17. See also item 3 above.
- 5. Coordinate with and contribute to GAC workgroup to conduct outreach related to core critical infrastructure layers: Activity on hold until data sets become better defined using process identified at items 2, 3 and 4 above.
- 6. Provide critical infrastructure data status review for the MN State Hazard Mitigation Plan: Complete.

Underground Utilities Mapping (UUM) Project Team

- 1. Project Team meetings during CY reporting period (4/4): March 14, June 13, September 26, and December 5 (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), currently rated at 91% complete and has passed Beta certification.
- 3. Deliver at least one presentation about overall team efforts at an established community appropriate conference or webinar (1/15): Fifteen presentations of a substantial nature were given this past year by members of the UUMPT. They include:
 - o January 17, 2024 Minnesota Construction Summit, St. Paul, MN
 - o February 26-28, 2024 Utility Safety Partners Safety Conference (Alberta One Call), Banff, AB
 - o March 18, 2024 Facility Notification Centers Association meeting, New Orleans, LA
 - March 19, 2024 Distribution Contractors Association, American Gas Association Workshop 2024, Kansas City, MO
 - o April 14-18, 2024 2024 CGA Conference & Expo, Colorado Springs, CO
 - May 29, 2024 Minnesota Transportation Conference and Expo, St. Paul, MN
 - August 7, 2024 Gas Operations Technical & Leadership Summit, Springfield, IL
 - o September 9-11, 2024 FOSS4G-NA Conference, St. Louis, MO,
 - September 17-19, 2024 OCC User Community meeting, Key West, FL
 - September 18-20, 2024 MiCAMP Conference, Boyne, MI
 - o September 24-25, 2024 Facility Notification Centers Association meeting, Walnut Creek, CA
 - o October 3, 2024 MN GIS/LIS Conference, Duluth, MN
 - October 21, 2024 Illinois GIS Association Conference, East Peoria, IL
 - o October 29, 2024 Common Ground Alliance Winter meeting, Las Vegas, NV
 - o November 21, 2024 APWA MN State Conference, Prior Lake, MN
- 4. Publish at least one article about the Project Team in a publication of importance to the industry (1/0): Although no hard copy items were produced this year, Chair Cederberg has been coordinating closely with the Common Ground Alliance on production of a video supporting the project with a planned release in 1st Quarter 2025. In support of a similar promotion by the Pipeline and Hazardous Materials Safety Administration (PHMSA), interviews of the key project players will be conducted during the week of January 13, 2025.
- 5. Continue efforts to develop project champions in the underground utility and regulatory communities: Ongoing.

U.S. National Grid (USNG) Project Team

- 1. Project Team meetings (USNG Implementation Work Group) during CY reporting period (4/4): January 24, April 24, June 20, and October 16.
- 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 (<u>www.usngcenter.org</u>): Ongoing.
- 6. Continue development of USNG instructional videos: No progress this period.
- 7. Conduct workshops and presentations:
 - October 2-4, 2024: USNG themed booth and ELM presentation given at MN GIS/LIS, Duluth, MN

 December 9-10, 2024: USNG themed booth at Minnesota Sheriff's Association Winter Conference, Alexandria, MN

Next Activities / Tasks

For the full committee / leadership team and all project teams:

• Finalize Work Plan goals for 2025.

Barriers

Full Committee / Leadership Team

The EPC supports the administration of their committee, including website hosting, meeting tool, and
other administrative services. Implementing MnGeo supported tools has been challenging for the
committee, and MnGeo will work with EPC during 2025 to understand how MnGeo can support this
committee and then take appropriate action to make that happen.

Critical Infrastructure Assessment Project Team

 Lack of dedicated funding to support ongoing development of accurate and current infrastructure data which is essential for emergency preparedness and response. Discussions continue with MnGeo about potential ways to fix this issue.

UUM and USNG Project Teams

• Being handled dynamically by Project Team as they occur.

Additional Comments

Full Committee / Leadership Team

Based on discussions during the EPC Leadership meeting of December 3, it is anticipated that as many as three additional EPC Project Teams may become active during 2025.

- Brian Huberty and Steve Swazee have committed to moving forward the Geospatial Preparedness
 Project Team effort. 2025 goals to be set during first meeting.
- Cory Richter will be calling a meeting of the EPC's Minnesota Geospatial Community Resilience Volunteer
 group to explore two Education related topics. 1.) Creating a better-defined program of self-study for
 those interested in getting more involved in the use of GIS within the Emergency Service Sector, and 2.)
 Creating a way forward for Emergency Managers without GIS support to create a volunteer program of
 assistance for routine projects such as mitigation planning.
- A landslide focused response group which will be discussed during a meeting with state GIO Slaats on December 17.

Critical Infrastructure Assessment Project Team

 Interest in the MN Critical Infrastructure Assessment Project Team effort continues to develop. Recent recordings by the group have garnered over 140 views on the MGAC EPC YouTube channel: https://youtu.be/r-Q1PzdDMok.

UUM Project Team

- In addition to meetings of the Project Team, the UUMPT Leadership Team has been meeting at least once a month. Software development personnel and some potential data providers have been meeting at least weekly.
- In June 2023, UUMPT participant Gopher State One Call (GSOC) signed a \$125,000 contract with nonprofit project partner SharedGeo to develop software supporting this project. In addition, in September 2023, PHMSA awarded SharedGeo \$100,000. On August 12, 2024, SharedGeo received an additional PHMSA grant of \$100,000. Total hard project funding now currently at \$325,000, with a GSOC \$75,000 back stop as needed.
- PHMSA final project report for the period October 1, 2023, through September 30, 2024, was filed and accepted on December 2, 2024. This report confirms the first grant of \$100,000 has been fully spent on the project.

USNG Project Team

- In addition to the national USNG Implementation Work Group meetings which are principally sponsored by this Project Team, some individuals on this project team participate in the quarterly meetings of the U.S. National Grid Institute Board of Directors: March 12, May 14, and September 24.
- The project team has been approached by Ken Anderson, who led an effort to search for Bryce Borca an individual who went missing after becoming lost late at night in a rural part of Dakota County. Ken is an advocate of the USNG and has ideas about how to enhance the MyUSNG app and/or USNGapp.org to make it more useful for SAR efforts. Ken has been involved in the USNG IWG and will continue to do so. Chair Knippel suggested that Ken lead an effort to develop specifications for phased implementation of his enhancement ideas that can then be used for pursuing funding opportunities. Germane: https://www.twincities.com/2024/10/30/bryce-borca-missing-eagan-parents-learning-to-co-exist-withgrief/, and https://www.brycesblessings.org/.

Additional Priority Projects and Initiatives Updates

None – these updates are already grouped by priority project.

Request for Assistance

Full Committee / Leadership Team

As has been previously reported over the past decade, Chair Swazee firmly believes the extent of EPC
activities clearly demonstrates the need for at least one, preferably two, dedicated, full-time, support
employees assigned to MnGeo. This concept was previously discussed during creation of legislation
which brought into existence the MGAC and MnGeo. It is believed the return on investment through use
of GIS as a force multiplier in the Emergency Service Sector to save lives and reduce suffering in

Minnesota would far exceed the additional expenditure required to create the position(s). A draft document supporting this concept was submitted to the state GIO in June, 2024.

Critical Infrastructure Assessment Project Team

• See Barriers above.

UUM and USNG Project Teams

• Currently nothing specific to the MGAC.

Content contributed by Steve Swazee on behalf of the committee.

K-12 Committee

Responsible Priority Projects and Initiatives

• K-12 GIS Resources Group

Most Recent Successes

- Presented a session at the GIS/LIS Conference in Duluth about GIS in K-12
- Staffed a table at GEOFEST, a conference for Geography teachers, about GIS information
- Connecting with K12 teachers and administrators

Next Activities / Tasks

• We are exploring what it would mean to create "teachable data sets." We will be looking at examples and generating ideas

Barriers

None

Additional Priority Projects and Initiatives Updates

None

Request for Assistance

None

Content contributed by Shana Crosson on behalf of the committee.

Outreach Committee

Responsible Priority Projects and Initiatives

- More fully attributed statewide parcel data
- Statewide Address Points Data
- Statewide Parcel Data
- Statewide Road Centerline Data
- Success Stories for Geospatial Technology

Most Recent Successes

- The Outreach Committee of the GAC has appointed a new chair, Jessica Fendos of LOGIS. As this is a new
 appointment, the outreach committee we'll be looking to rebuild in 2025. A high priority of the outreach
 committee we'll be to configure an ArcGIS Hub to replace the GAC website.
- Overseas the implementation of the following GAC priorities: open parcel data, open address point data, and open road centerline data, as well as telling geospatial success stories.

Next Activities / Tasks

• For the next quarter the outreach committee will be soliciting volunteers to assist with carrying out the mission of the group.

Barriers

None

Additional Priority Projects and Initiatives Updates

- The Open Data Subcommittee meets every 6 weeks to discuss status and strategy of encouraging counties to opt-in to sharing data toward statewide composites.
- Since the last GAC meeting, one additional county has agreed to opt-in to sharing their parcels to the Statewide Opt-in Composite available on the MN Geospatial Commons.
- Of 87 MN counties, 54 contribute parcels, 44 contribute address points and emergency service zones, and 43 contribute road centerlines to date.
- Parcels, address points, and road centerlines are available for download on the MN Geospatial Commons. The data is being refreshed on a quarterly basis and was last published 11/1/2024.
- The Success Stories for Geospatial Technology workgroup has not met in the fourth quarter. The workgroup will resume meetings in January 2025, with a goal of wrapping up in Spring.

Request for Assistance

Volunteers needed to establish a functioning outreach committee of the GAC.

Content contributed by Heather Albrecht on behalf of the committee.

Parcels and Land Records Committee

Responsible Priority Projects and Initiatives

- Statewide County Boundary Dataset
- Updated & Aligned Boundary Data

Most Recent Successes

- Submittal of PLSS Point Standard to the GAC Standards Committee
- The Statewide County Boundary Dataset came to an agreement on the attributes and names for the data in the dataset. We used existing standards from the GAC for the names of the attributes.

Next Activities / Tasks

- Work With Standards Committee to facilitate adoption of PLSS Point Standard.
- Statewide County Boundary Dataset: Start going through county by county and identify differences in boundaries and then working to resolve them. Some differences have been brought to light already such as boundary differences between St. Louis and Lake County. Issues with the islands in Lake Superior. Some county ditch changes between Minnesota and North Dakota.

Barriers

- Volunteer time
- Statewide County Boundary Dataset: We may have to reach out to people outside the workgroup to
 resolve some issues, like the differences between St. Louis and Lake Counties. Otherwise, the workgroup
 is continuing to move ahead.

Additional Priority Projects and Initiatives Updates

None

Request for Assistance

None

Content contributed by Preston Dowell and Ben Timerson on behalf of the committee.

PLSS Preservation Committee

Responsible Priority Projects and Initiatives

- Remonumentation of all original federal Section Corners
- Statewide Survey Records Inventory

Most Recent Successes

- November quarterly progress reports show:
 - Only one county has not started project work
 - Average project completion is 25%
 - As reported by the counties
 - o Processed \$1,947,542.98 in reimbursements
 - o 21% of \$9.1 million
 - A few counties are on track to finish early
 - o 1 county has not completed their progress report to date

Next Activities / Tasks

- Upcoming progress:
 - o Fieldwork will likely slow down during the winter months
 - Office work will pick up/ catch up during the winter months
 - Kory Thurnau, MnGeo Survey Coordinator will meet with each grantee starting in January for annual monitoring and reconciliation.
 - Kory hopes to get out on more site visits as well
 - o PLSS Point Data Standard has been submitted to GAC Standards Committee

Barriers

- One county has not started their project yet, and I have some concern about their timeliness.
- One county has not completed their most recent project progress report and there has been some shake up at the county about the county surveyor role. Will continue to monitor.
- Long term funding shortage

Additional Priority Projects and Initiatives Updates

None

Request for Assistance

Support legislation for funding PLSS work

Content contributed by Kory Thurnau on behalf of the committee.

Standards Committee

Responsible Priority Projects and Initiatives

None

Most Recent Successes

- Committee met in October and approved some smaller clarity changes in the language of a few standards.
- The co-chairs have received and reviewed a new version of a draft revision to the Lake and Wetland Basin ID Standard which is ready for the committee's review at our next meeting.

Next Activities / Tasks

• The co-chairs are working with Preston Dowel on putting an initial draft of a proposed PLSS Point Data Standard into the GAC standard format.

Barriers

None

Additional Priority Projects and Initiatives Updates

N/A

Request for Assistance

None

Content contributed by Mark Kotz on behalf of the committee.

Priority Projects and Initiatives Reports

These reports are for those priority projects and initiatives not yet associated with a committee – for all other priority projects and initiatives, please see the committee reports.

Geodata Archive Implementation

Most Recent Successes

• The Big Ten Geospatial Information Network will soon begin building a geodata collection. To the end, we developed a draft charter for a MN GAC Archiving Committee.

Next Activities / Tasks

 Recruit Archiving Committee members from stakeholder groups (MnGeo, Government agencies at all levels (state, regional, county, city, etc.), Researchers, All users of historical geospatial data, Higher Education, Non-profit organizations, and Private sector.

Barriers

The main barrier has been funding and waiting, but we are ready to move forward!

Additional Priority Projects and Initiatives Updates

None

Request for Assistance

 We need volunteer committee members (you do not have to be GAC members, but GAC members are welcome)!

Content contributed by Priority Owner, Ryan Mattke.

Statewide Imagery Program

Most Recent Successes

• Minimal progress during this reporting period. We maintain connection with a small group and continue discussions and strategic planning. This initiative should not be named as a "Program" because it may imply inaccurate function/scope at this stage.

Next Activities / Tasks

We've been discussing changes coming to the federal summer imagery program (NAIP), the need to
explore statewide spring imagery partnerships, and generally what would be needed to maintain the
autonomy and control the Counties currently have with image acquisitions. These are active discussions.

Barriers

 Closer watch on NAIP may be needed, considering Minnesotans were anticipating summer image collection in 2025. Given the federal continuing resolution and changes in administration coming, things are fairly uncertain.

Additional Priority Projects and Initiatives Updates

None

Request for Assistance

 There's been discussion about whether to house this initiative under an existing GAC Committee or revamp a committee that has sunset. Ideas and more interest from the GAC community, in general, are welcome.

Content contributed by Priority Owner, Jennifer Corcoran.

Archiving Committee Charter

(See attachment on next page)

Archiving Committee - Charter

Mission statement:

The Archiving Committee works to develop strategies for preserving geospatial data in Minnesota. Its mission is to advise the state geospatial community on archiving issues, recommend policies and procedures, and ensure that valuable geospatial data is preserved and remains accessible for future use.

OR

The Archiving Committee is dedicated to establishing Minnesota as a national leader in geospatial data preservation. By advising the state geospatial community on best-in-class archiving practices, shaping forward-thinking policies and procedures, and fostering collaboration across sectors, the committee ensures that Minnesota's valuable geospatial data is not only preserved but leveraged to drive innovation and benefit future generations.

Objectives and Deliverables:

Objectives

1. Establish a statewide archiving framework

Develop a sustainable strategy for preserving Minnesota's geospatial data, ensuring its long-term accessibility and usability.

Building on the foundational work of the Archiving Workgroups (see Reports section), this initiative will focus on:

- Defining best practices and procedures outlined in the <u>Archiving Strategy</u> and the <u>Archiving Implementation reports</u>.
- Recommending tools and content models based on the findings of the Archiving Pilot.
- Prioritizing high-value data as identified by the <u>Priority Datasets Subgroup</u> and the <u>Archiving Imagery Workgroup</u>.
- Formalizing agreements and policies for data licensing, deposit, retention, and withdrawal as informed by the Archiving Agreement template.

2. Foster collaboration across sectors

Strengthen partnerships with data stewards in government, academic institutions, private sector, and relevant stakeholders.

3. Align with existing efforts

Collaborate with committees and projects to integrate archiving into broader geospatial initiatives, including the Image Service Sustainability Committee's efforts to archive historical aerial imagery layers.

4. Educate and advocate

Promote awareness about the benefits of geospatial data archiving and provide actionable steps for community stakeholders.

5. Monitor and evaluate progress

Provide oversight and guidance on strategies and activities to ensure intended goals are met, adjusting as needed based on lessons learned.

Deliverables

1. An operational framework

Actionable policies, best practices, and procedures that can be directly applied by stakeholders to archive geospatial data effectively.

2. Community engagement

Presentations at the MN GIS/LIS Conference and similar forums to share progress, lessons learned, and encourage broader participation in archiving efforts.

3. Documentation

Annual updates and reports detailing milestones, challenges, and next steps in implementing the archiving strategy.

Resource requirements and timing:

People time

Regular virtual meetings - frequency to be determined

Anticipated participants and their roles and responsibilities:

Group Membership:

Ryan Mattke - University of Minnesota Libraries (Chair) TBD (Vice Chair) [members to represent stakeholder groups]

Stakeholders:

MnGeo

Government agencies at all levels (state, regional, county, city, etc.)

Researchers

All users of historical geospatial data

Higher Education

Non-profit organizations

Private sector

Prepared by:

Ryan Mattke matt0089@umn.edu

Karen Majewicz majew030@umn.edu

Date approved by the Geospatial Advisory Council:

Draft submitted to MN GAC for review at December 18, 2024 meeting