

Minnesota Geospatial Advisory Council Meeting

May 24, 2023

11:00AM – 2:00PM

(Meeting will be recorded for transcription purposes only)

In Person Option: Skjegstad Conference Room (Room 2000), Stassen Building, Minnesota Department of Revenue, 600 N. Robert St., St. Paul, MN 55101

Online Option: Via Microsoft Teams¹

Agenda

1. Call to Order (Chair)	11:00	15 min
a. Introductions		
b. Approval of Agenda		
c. Approval of Meeting Minutes from March 15, 2023		
2. Review and Accept Committee Reports and GAC 2023 Workplan (All)	11:15	10 min
3. Contributing to Nationwide and Commercial Data Assets Workgroup (Brandt)	11:25	5 min
4. Governor's Certificate Awards for Exemplary Geospatial Projects (Kne)	11:30	5 min
5. 2023-2025 GAC term applications (Richter, Rader)	11:35	5 min
6. PLSS Legislation Update (Veraguth)	11:40	10 min
7. PLSS remonumentation grant oversight (Mavis)	11:50	5 min
8. Utilizing First Generation Legacy Breachlines with new High-Resolution Lidar Derived DEM's (Moore)	11:55	10 min
9. Break & networking (no lunch on site, bring your own)	12:05	30 min
10. Climate resiliency introductory discussion (Reinhardt)	12:35	5 min
11. Types of LiDAR (Vaughn)	12:40	10 min
12. Sector Report: K-12 Education (Crosson)	12:50	10 min
13. Legislative Updates (Slaats)	1:00	10 min

¹ Contact MnGeo: gisinfo.mngeo@state.mn.us in advance for connection information

14. Updates on MN GAC Priority Projects and Initiatives (Brandt)	1:10	20 min
15. Announcements or Other Business	1:30	15 min
16. Adjourn	2:00	

GAC Committee and Workgroup Reports

3D Geomatics – DEM Hydro-modification Subgroup

Most recent success

- We are completing our report, *Utilizing First Generation Breachlines with High Resolution DEM's*, based on our research. We submitted an abstract to the ESRI User Conference and will present in July on the project as well as be part of the Hydro Summit and Special Interest Group.

Next task

- Kiah Sagami and Rick Moore will present the findings in June to the Hydrogeomorphology workgroup and the Subgroup to refine the presentation for the ESRI User Conference.

Request for Assistance

- Feedback at GAC meeting

3D Geomatics – Hydrogeomorphology Workgroup – Foundational Hydro Data Stewards Subgroup

Most recent success

- Provided input for the update of the Kettle River Watershed - MNIT DNR and MNIT PCA data stewards who are part of the workgroup as well as the Minnesota Geographic Names Data Steward.

Barrier

- Lack of funding for data maintenance and coordination between datasets maintained by the agencies

Next task

- We meet in July to discuss data issues that members come across in their work over the May-July quarter

Request for Assistance

- This submission is for the Foundational Hydro Data Stewards Subgroup to be added to the 3D Geomatics Hydrogeomorphology Workgroup

Awards

Most recent success

- Advertised upcoming Governor's Certificate Nomination deadline.

Next tasks

- Review draft nominations and provide feedback, review final nomination packets.

Emergency Preparedness

Most recent success

- Meeting: March 28, 2023

Next tasks

- Next Meeting: June 15, 2023, 2 PM CT

Emergency Preparedness - Geospatial Assistance

Most recent success

- April 21 FEMA R5 and MN GIS community zoom call to learn about the increased GIS capacity at FEMA R5 Chicago.

Barrier

- Institutional silos - and dedicated funding to acquire imagery as needed.

Next tasks

- Develops procedures which will facilitate acquisition and delivery of geospatial support to the public as well as to the Minnesota Emergency Services Sector during disasters.

Request for Assistance

- State and Federal Legislation to fix the gaps.

Outreach - Foundational Datasets Workgroup

Most recent success

- The Outreach Committee's foundational datasets workgroup's mission is to promote sharing of county address and centerline data openly and to the state for cohesive statewide data. The committee is working with counties to opt-in to sharing data. Once an agreement is reached, the data will be added to statewide feature classes available on the geospatial commons.
- Knowledge sharing with the open data workgroup of the parcel land records committee about promoting open parcel data. The workgroups will work closely together.
- Documenting the data sharing status of each county and point of contact.
- The priority for outreach is "low hanging fruit," defined as a county who has opted-in to parcel sharing and the data has been validated for NextGen911.

Next tasks

- An open data panel discussion is coming together for the MN GIS/LIS Conference.

Request for Assistance

- Actively recruiting! Peer-to-peer promotion of open data from county GIS staff encouraged. Contact Heather Albrecht heather.albrecht@hennepin.us or Sally Wakefield sally.wakefield@state.mn.us to join.

GAC Work Plan

Work Plan date: February 8, 2023

Chair and vice chair: Cory Richter, David Brandt

Link to [GAC Mission and Guiding Principles](#):

Link to [GAC Committees and Workgroups](#):

Accomplishments from 2022

- Approved the Emergency Service Zone Data Standard and the Stream ID Standard
- Awarded two Governor's Certificates for exemplary geospatial projects:
 - COVID-19 Testing Locations and Vaccine Finder Web Mapping Applications
 - The Minnesota Natural Resource Atlas
- Conducted the annual Minnesota Geospatial Priorities Survey and prioritization process
- See [committees and workgroups page](#) for their annual reports with 2022 accomplishments
- Opt-in public statewide parcel dataset was published in January 2022 including 24 counties, and by the end of 2022, 42 counties were included
- Lidar accomplishments:
 - Two more USGS 3DEP proposals approved for lidar acquisition, planned for 2023
 - Minnesota River East
 - Minnesota River West
 - Significant areas of lidar data acquired in 2022
 - Upper Mississippi - captured
 - Central Mississippi – partial capture
 - Missouri Big Sioux - captured

Work Plan for 2023

Planned activities and deliverables:

The GAC meets on a quarterly basis. The Leadership Team meets between GAC meetings. The bulk of the work is done by the [committees and workgroups](#) of the GAC. Key goals of the GAC itself for 2022 include:

- Promote and facilitate progress on the statewide geospatial projects and initiatives identified by the GAC
- Continue effort to measure progress on GAC priorities
- Continue to increase outreach to the geospatial and related communities. This will be done both through the formal efforts of the Outreach Committee and less formally by GAC members further reaching out to and coordinating with their sectors.
- Build and launch the GAC Hub sites for the main body of the Council and link the other existing Hubs for Lidar, Outreach, and PLSS
- Conduct an annual geospatial community priorities survey
- See [committees and workgroups page](#) for their annual reports with 2023 planned activities

2023 Priorities

Project or Initiative Name	Status
Parcel Data	Active
Critical Infrastructure Data Workflow	Active
Updated & Aligned Boundary Data	Active
Address Points Data	Active
Road Centerline Data	Active
Culvert Data Standard	Active
Publication of Open Foundational Datasets	Inactive
Lidar Data	Active
U.S. National Grid Materials	Active
Remonumentation of all Section Corners	Active
MnGeo Image Service Improvements	Active
Geodata Archive Implementation	Active
Underground Utilities Data Sharing Team	Active
Success Stories for Geospatial Technology	Active/Recruitment underway
Geospatial Commons Advisory Group	Recruitment underway
Hydro-DEMs	Active
Summary Crime Data	Active
NG9-1-1 Geospatial Forum	Recruitment underway

Roles and responsibilities:

Chair: Cory Richter

Vice Chair: David Brandt

MnGeo Ex-Officio member/CGIO: Alison Slaats

Leadership Team: (acts as an executive group to develop agendas, identify strategic items, etc.)

Members: Jeff Bloomquist, David Brandt, Len Kne, Chris Mavis, Victoria Reinhardt, Cory Richter, Kendis Scharenbroich, Gerry Sjerven

Resources:

No significant resource commitments for the GAC beyond the time/talent of members.

Council needs:

The GAC relies on MnGeo staff for scheduling and hosting meetings, creating minutes and other administrative functions.

Dependencies and interrelationships:

Committees and Workgroups: The GAC is completely dependent upon the committees and workgroups that do most of the actual work of the GAC. The GAC must also stay in touch with a wide group of stakeholders in the geospatial community to be able to represent their interests. Most GAC members represent a specific sector, though a few are at-large members.

Risks:

A change in legislation or lack of MnGeo support could negatively affect the ability for the GAC to accomplish goals as could inability of GAC leaders to commit the significant time required for this council to be successful.

Additional Comments:**Date approved by the Geospatial Advisory Council:**

Minnesota Geospatial Advisory Council

Contributing to Nationwide and Commercial Data Assets Charter

Mission statement: *To share local authoritative data with nationwide and commercial assets*

Objectives and Deliverables:

- Raise awareness of the need for shared data
- Identify major consumers of shared data
- Identify, document, and recommend requirements and processes for MnGeo to share aggregated statewide datasets compiled from local authoritative data
- Identify appropriate open licensing

Benefits:

1. Basemaps with authoritative data
2. Geocoding – Instead of several services can use one (statewide, national)
3. Improved map accuracy for delivery and emergency response
4. General business planning

Deliverables:

1. Processes for sharing authoritative data with national and commercial assets
2. Framework for sharing with new entities
3. Defined and documented data sharing outreach to authoritative data producers
4. Additional shared aggregated data availability

Resource requirements and timing:

Monthly Workgroup meetings

Anticipated deliverables by April 2024

Anticipated participants and their roles and responsibilities:

David Brandt – Washington County – Co-chair

Randy Knippel – Dakota County – Co-chair

Alison Slaats – Minnesota IT Services Chief Geospatial Information Officer

Dan Ross – Strategic Advisor, Public Sector - Ecopia AI

Tanya Mayer – Metropolitan Council

Vic Barnett – Ramsey County

Mark Volz – Lyon County

Norm Anderson – Minnesota IT Services

Doug Matzek – Washington County

Sally Wakefield – Minnesota IT Services

Curtis Carlson – Minnesota IT Services

Dependencies and relationships to other committees, workgroups and/or projects.

- Relationship with Open Data committee and Outreach
- Perhaps Standards Committee for determining/endorsing a standard open license template

Prepared by: David Brandt

Date approved by the Geospatial Advisory Council:

PLSS Preservation Committee Charter

Mission statement:

This Committee exists to establish criteria for PLSS Preservation grants, evaluate and prioritize PLSS Preservation grant applications, review grant work, and report grant performance measures with respect to Minnesota Statutes 381.125:

Subd 1. Grant program. The chief geospatial information officer, through the Geospatial Advisory Council established under section 16E.30, subdivision 8, shall work with the stakeholders licensed as land surveyors under section 326.02, to develop a process for accepting applications from counties for funding for the perpetuation of monuments established by the United States in the public lands survey to mark public land survey corners, as provided in section 381.12, subdivision 2, clause (1). Grants may also be used to update records and data regarding monuments. The chief geospatial information officer must establish criteria for prioritizing applicants when resources available for grants are not sufficient to award grants to all applicants. The criteria must favor providing grants to counties that demonstrate financial need for assistance.

Subd. 2. Report. By October 1, in each odd-numbered year, the chief information officer must submit a report to the chairs and ranking minority members of the committees in the senate and the house of representatives with jurisdiction over state government and local government. The report must include the following:

- (1) a summary of the chief information officer activities regarding administration of this grant program for the previous fiscal year, including the amount of money requested and disbursed by county;
- (2) an assessment of the progress toward completion of necessary monument restoration and certification by county; and
- (3) a forecast of the amount needed to complete monument recertification in all counties.

Objectives and Deliverables:

Aid Minnesota Geospatial information Officer (GIO) and the Minnesota Geospatial Information Office (MnGeo) in developing a PLSS Preservation grant program pursuant to 381.125. Review grant applications, prioritize and recommend grant recipients to the GIO and MnGeo. Review completed projects for compliance with the grant program and assist with creation and/or review of performance measure reports for the legislature.

Resource requirements and timing:

The majority of the resources needed for the operation and maintenance of the Committee will be the volunteered time of its membership for meetings, review and recommendation of grant applications, review of final deliverables of the grant program, participation in outreach and research, development of materials for the use of the Committee and preparation of documentation to support its activities.

By acceptance of this charter, the Geospatial Advisory Council (GAC) authorizes this Committee to work with the GIO and MnGeo to advise them directly on grant-related recommendations. The Committee's recommendations will be reported at quarterly GAC meetings.

The PLSS Preservation Committee will identify and communicate with stakeholders in the geospatial community

about the PLSS Preservation grants.

The committee will meet monthly or as needed.

Anticipated participants and their roles and responsibilities:

Chair: MnGeo Survey Coordinator

Vice-chair: GAC Surveyor member

Membership:

(1) The Committee chair and vice chair shall designate up to 8 members for a total of 9 members (including the Committee vice-chair) who will vote on grant recommendations. The Chair of the Committee, the MnGeo Survey Coordinator, is a non-voting member. By June 30, the chair and vice chair, in consultation with the GIO, the GAC, Minnesota professional surveying associations, MN GIS/LIS Consortium and public stakeholders shall ensure that the committee includes voting members, as follows:

(a) Vice Chair (GAC Surveyor Member)

(b) At least 5 members must be land surveyors licensed in Minnesota, 1 of whom must also be serving as a County Surveyor. The surveyor members must be representative of different geographic areas of Minnesota, including members from the Metropolitan Statistical Areas (Minneapolis/St. Paul, Duluth, Rochester, St. Cloud) and outside of said Metropolitan Statistical areas.

(2) Of the 9 voting members, Committee after June 30, 1 shall be the GAC Surveyor Member whose term shall be consistent with the GAC term (2 years), 4 members shall be appointed for a term of 1 year and 4 members will be appointed for terms of 2 years each. At the expiration of the term of a member, the chair/vice chair of this committee shall appoint a successor, who shall hold office for a term of 2 years and until his or her successor has been appointed and qualified. If there is a vacancy in the office of a member of the Committee, the chair/vice chair shall appoint a successor for the unexpired term. Members can serve consecutive terms.

(3) Members of the Committee shall serve without compensation

Conflict of Interest:

A committee member may not participate in or vote on a decision of the committee in which the member has either a direct or indirect personal financial interest. While serving on the committee, a member shall avoid any potential conflict of interest.

Stakeholders:

Stakeholders in the PLSS Preservation Committee include, but are not limited to, the following

- Minnesota Counties
 - Geographic information data stewards and users
 - Recorders
 - Assessors
 - Auditors
 - County Surveyors and Engineers
- All survey professionals
- Municipal, park district or special district staff who utilize PLSS data.

- Geospatial professionals and groups such as the members of the Minnesota Association of County Surveyors (MACS), Minnesota Society of Professional Surveyors (MSPS) and Minnesota GIS/LIS Consortium.
- Private vendors who work with county governments to develop and maintain PLSS and cadastral data.
- Regional collaborative groups such as the Arrowhead Geospatial Collaborative, MetroGIS, Pine-To-Prairie GIS User Group, South Central Minnesota GIS User Group, Southeast Minnesota GIS User Group
- State agencies, federal agencies and other partners who require PLSS and cadastral data to conduct their work including the Department of Revenue, Department of Transportation, Department of Agriculture, Department of Natural Resources, Pollution Control Agency and Minnesota Geospatial Information Office.
- Members of the general public.

Prepared by: GAC Parcels and Land Records Committee (PLRC) Remonumentation Subcommittee

Date approved by the Geospatial Advisory Council: mm dd, yyyy