

Minnesota Geospatial Advisory Council Meeting

December 15, 2021

Webex. See meeting invitation for details.

10:00 – 12:00

Agenda

1. Call to Order (Acting Chair)	10:00	10 min
a. Introductions		
b. Approval of Agenda		
c. Approval of Meeting Minutes from September 29		
2. Review and Accept Committee Summaries (All) – <i>page 2</i>	10:10	5 min
3. Confirm GAC leadership team (Richter)	10:15	5 min
4. GIO update (Dan Ross)	10:20	5 min
5. UUMPT update – Clean Water Council Policy Statement (Swazee)	10:25	5 min
6. Open parcel data subcommittee update (Chad Martini)	10:30	10 min
7. GAC Hub (Richter, Slaats)	10:40	10 min
8. Lidar Update (Sjerven, Vaughn)	10:50	5 min
9. Break	10:55	5 min
10. 2022 Priority Project Survey (Richter, Brandt)	11:00	15 min
11. Higher Education Sector Report (Kne, Stark)	11:15	10 min
12. Legislative Updates (Ross)	11:25	5 min
13. Updates on MN GAC Priority Projects and Initiatives (Brandt)	11:30	15 min
14. Announcements or Other Business	11:45	15 min
15. Adjourn	12:00	

Minnesota Geospatial Advisory Council 3D Geomatics Committee Status Report

Report Date:

December 7, 2021

Chair and Vice Chair:

Sean Vaughn, Co-Chair
Minnesota IT Services@DNR
763-689-7100 x226
sean.vaughn@state.mn.us

Gerry Sjerven, Co-Chair
Minnesota Power
218-355-3990
gsjerven@mnpower.com

Link to Committee Charter:

The 3DGeomatics Charter
(https://www.mngeo.state.mn.us/committee/3dgeo/3dgeo_committee_charter.pdf)

Executive Steering Team

**Meetings: 01/19/2021, 02/16/2021, 04/20/2021, 06/15/2021,
08/17/2021, 09/21/2021, 11/16/2021**

- Continued to meet semi-monthly
- Continued to work with Workgroups on progress and updating each group's website presence.

Data Acquisition Workgroup

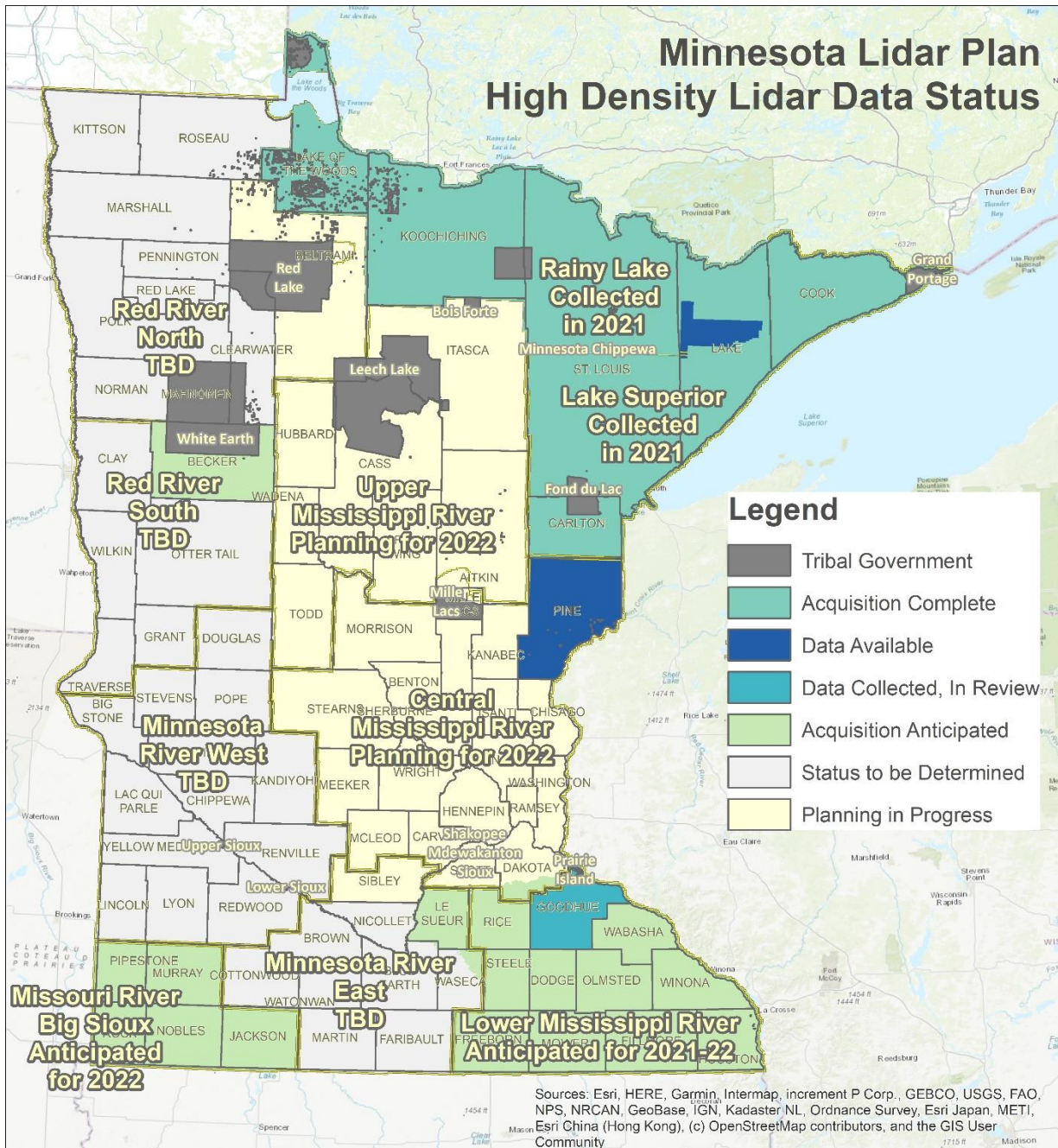
- The data acquisition workgroup meets weekly (meeting at least 13 times since the last GAC meeting) and had several additional topic-specific meetings.
- Acquisition for the Rainy Lake and Lake Superior Block are complete, and the vendor is working on data processing
- Continued with significant Lidar acquisition outreach, meetings, emails and communications with stakeholder and partners from State agencies, Counties, Non-Profits, private entities, and other partners.
- The Minnesota Lidar Plan was updated.

Minnesota Geospatial Advisory Council

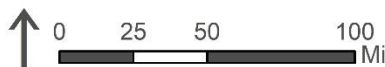
3D Geomatics Committee Status Report

- Representatives attended monthly 3DGeo Steering Team meetings
- 3D Geo team representatives attended National States Geographic Information Council (NSGIC) 3DEP Group Meetings about lidar.
- Large funding meeting was held on August 23 to share information about planned grant application for lidar acquisition in the Central and Upper Mississippi Lidar Acquisition Blocks of the state
- Much work was done to follow up with potential partner in the Central and Upper Mississippi Lidar Acquisition Blocks through emails and individual meetings
- Held meetings with vendor regarding QL0 standard
- Materials were produced to educate, communicative and explain lidar quality levels, especially QL0 and how this impacts lidar costs and deliverables.
- Team coordinated with MnGeo Discovery project that will focus on data storage and discovery for lidar data.
- 3D Geo team coordinated with MNIT accessibility team, MNIT Communications team and published the Lidar Hub website (<https://lidarhub-minnesota.hub.arcgis.com/>)
- Many meetings held with stakeholders, including County Boards
- Finalized financial documentation and grant request for 34 funding partners (\$1,276,736 for Upper Mississippi Block and \$1,580,685 for Central Mississippi Block)
- Submitted USGS BAA Funding requests for Central Mississippi Lidar Acquisition Block: Total cost: \$3,779,549; 20 partners; Funds raised: \$1,580,685 (36%); Funds requested: \$2,288,337 (64%)
- Submitted USGS BAA Funding requests for Upper Mississippi Lidar Acquisition Block: Total cost: \$4,450,903.65; 14 partners; Funds raised: \$ 1,276,736 (26%); Funds requested: \$ 3,246,435 (74%)
- Held lidar panel session at Minnesota GIS/LIS Consortium Conference
- Won NSGIC 2021 Geospatial Excellence Award for work on lidar acquisition: <https://nsgic.memberclicks.net/2021-geospatial-excellence-awards-announced>
- 3D Geo team communicated and made plans to work with other lidar collections planned in the state (Douglas County and in Northwest MN done by the Red River Watershed Management Board)
- Central Mississippi Lidar Acquisition Block – BAA was recommended for 3DEP funding by USGS for full amount we requested: \$2,288,336.74
- Upper Mississippi Lidar Acquisition Block – BAA was tentatively recommended by USGS for 3DEP funding, not to exceed a 3DEP contribution of \$3,246,435.74.

Minnesota Geospatial Advisory Council 3D Geomatics Committee Status Report



Some anticipated 2021 collections are underway and some will be collected in spring in 2022. TBD areas need partners.



Map Date: Sept 10, 2021

Minnesota Geospatial Advisory Council

3D Geomatics Committee Status Report

Infrastructure Workgroup

- Workgroup continues to support the Acquisition Workgroup
- Representatives attended monthly 3DGeo Steering Team meetings
- Established a Cultural Resources subgroup

Vegetation Workgroup

- Workgroup continues to support the Acquisition Workgroup
- Workgroup meets every other month with short guest presentation, including the use of 3D data for assessing habitat, and the use of topo-bathy lidar for additional applications other than hydrography
- Representatives attended monthly 3DGeo Steering Team meetings
- Established a [workgroup web page](#) and SharePoint site
- Workgroup met from 2:00-3:00PM these dates in 2021: January 5, March 2, May 4, July 6, September 7, November 2.
- 2022 Schedule:
 - January 4 – Land Cover Classification Mapping by Luke Spaete
 - March 1 – TBD
 - May 3 – Rainy Lake and Lake Superior lidar data demo
 - July 12 – TBD
 - Sept 6 – In the field with the DNR's Forest Management Academy workshop

Hydrogeomorphology Workgroup

Prepared by: Andrea Bergman, Jamie Schulz, Rick Moore, Sean Vaughn

Workgroup meetings: 3/9/2021, 4/13/2021, 5/11/2021, 6/8/2021, 8/10/2021

- March workshop meeting focused on outreach documents, lidar updates
- April and May meetings focused on presentation series on lidar background and lidar-derived hydrography, this continued into June and August meetings
- Foundational Hydrography Data Stewards held quarterly meeting 1/25/2021, 4/26/2021, 7/26/2021, 10/25/2021
- DEM Hydro-modification Subgroup continues to meet monthly

Progress on work plan:

- Updated and posted 2-page [fact sheet](#)
- Created 1-page document on [workgroup success and future plans](#)

Minnesota Geospatial Advisory Council 3D Geomatics Committee Status Report

- Maintained workgroup SharePoint site, and worked with MnGeo to maintain the workgroup web page
- Presentation series on lidar-derived hydrography that will be key to developing needs statement to guide lidar-derived hydrography products
- Foundational data stewards have begun validating attributes in preparations for conflation to new lidar-derived hydro datasets
- DEM Hydro-modification subgroup
 - Focused discussion on definition of Completeness, Confidence, and Scale as it relates to placement of Breachlines during DEM Hydro-modification.
 - Continued improvements to web app
 - Presentation from Michigan Tech Research Institute on hydro-modification to determine wetland connectivity

Education Workgroup

- Workgroup continues to support the Acquisition Workgroup
- Representatives attended monthly 3DGeo Steering Team meetings
- The 3D Geo Education Workgroup met 7/6/21 after a 3 month hiatus following the LCCMR submission deadline. The group did not produce a proposal for consideration of Lidar education funding due to a number of factors regarding Covid-19 funding needs for LCCMR. It has been difficult to garner support for such a project at the state and University levels.
- For that reason, the group is exploring a fee-based model for Lidar education training and what that would look like for the state of Minnesota.

Minnesota Geospatial Advisory Council
Committee/Workgroup Status Report

Archiving Pilot Workgroup

Report date:

December 2, 2021

Prepared by:

Ryan Mattke, Workgroup Chair, matt0089@umn.edu

Karen Majewicz, Workgroup Vice-Chair, majew030@umn.edu

Meetings:

The workgroup began meeting in June 2021.

Meeting minutes will be available here: <http://www.mngeo.state.mn.us/workgroup/archiving/>

Progress on work plan:

- Presented at GIS/LIS Conference (October 2021)
 - Lightning Talk: [Archiving Geospatial Data in Minnesota: Recommendations and Future Directions](#)
 - Poster: [The Future of Historical Data in Minnesota](#)
 - Panel Discussion: [What is geospatial data archiving and why is it important for Minnesota? \(additional Wisconsin slides\)](#)
- Evaluating and testing potential archive technologies
 - Tested metadata capabilities in QGIS
 - Developing a metadata crosswalk (extracting discovery elements from MGMG)
 - Researched the [DSpace platform](#) for digital repositories
- Creating a proof of concept with pilot data sets in a repository
 - Installed an instance of DSpace on the University of Minnesota servers
 - Experimenting with hierarchical organizational structures
- Engage with data creators at various levels of government, academic institutions, and relevant stakeholders
 - Solicited archiving stories from three survey respondents
 - Posted three stories on a draft page: <https://www.mngeo.state.mn.us/workgroup/archiving/uses.html>
 - Developing more stories to post on MnGeo website as examples of the benefits of archiving

Additional comments:

- Planning to wrap up with a report in early 2022 and present at GAC meeting in March

Minnesota Geospatial Advisory Council
Committee/Workgroup Status Report

Awards Committee

Report date:

December 1, 2021

Prepared by:

Len Kne and Phil Nagel (committee co-chairs)

lenkne@umn.edu and Phil.Nagel@bolton-menk.com

Meetings:

No meeting since the last update, most of the Committee's work happens from May to September each year.

Progress on work plan:

1. Continue to work on content for new Hub site to encourage more applications to the Governor's Commendation.

Additional comments:

Next meeting TBD

Emergency Preparedness Committee

Report date: September 23, 2021

Prepared by:

- Chair: Stephen Swazee, Executive Director, SharedGeo, chair@mgacepc.org, 651-456-5411
 - Vice Chair: Randy Knippel, GIS Manager, Dakota County, vchair@mgacepc.org, 952-891-7080
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Full Committee/Leadership Team

Meetings:

- Full committee: June 17, 2nd CY quarterly meeting, online
- Leadership Team: None this quarter

Progress on work plan:

- Conduct at least three meetings of the full committee during 2021
 - March 10 and June 17 to date; October 7th next
- Conduct at least four meetings of the leadership team (Chair, Co-chair, and Project Team chairs)
 - January 20, April 14, June 8, next TBD
- Continue efforts to cleanup committee's online presence and bring efficiency to its IT infrastructure
 - Ongoing
- Randy Knippel to serve as EPC liaison to the [Metropolitan Emergency Managers Association](#) (MEMA) by attending that association's monthly meetings
 - Ongoing as defined above

Additional comments:

- MGACEPC YouTube channel showing past meetings and presentations, as well as those of EPC Project Teams (https://www.youtube.com/channel/UC3hwp5_9t3BkiTt-hyALArg) has had over 1,200 views so far this CY.
 - The June EPC meeting included a presentation by [One Concern](#) featuring former FEMA Administrator Craig Fugate. Video of this presentation can be found on the EPC YouTube channel.
 - Significant drop off in committee activities as the result of the distraction that is summer and personal circumstances which required Chair Swazee to be out of Minnesota for the past four months.
-

Critical Infrastructure Assessment (CIA) Project Team – GAC PRIORITY
Stacey Stark, Associate Director, U Spatial, sstark@d.umn.edu, 218-726-7438

Meetings: 6/11/21, 7/16/21, 8/20/21

Progress on work plan:

- Conduct at least three meetings of the Project Team during 2021
 - Committee Meetings 3/16/21, 4/9/21, 5/21/21, 6/11/21, 7/16/21, 8/20/21.

- Develop updated data model (prioritizing fire and police) based on the previous standards identified in Minnesota Structures Collaborative project
 - Initial meeting with Esri and HSEM 6/9/21
- Maintain Esri online app for counties to validate their data (counties U-Spatial has other projects with, as a prototype for workflow).
 - Complete here: z.umn.edu/MNCL, some improvements were made
 - Script developed to use agency naming conventions
 - Script developed to use both a “dept” and a “station” field - parsing value from one field if necessary
 - 17 counties from the U-Spatial Hazard Mitigation Planning contract plus St Louis County and Clay counties have been confirmed.
- Publish comprehensive statewide dataset of fire and police to the Minnesota Geospatial Commons
 - Fire dataset complete - ready to begin clean-up and metadata for publishing.
- Present on this project at the Association of MN Emergency Managers in September 2021
 - Scheduled

Additional comments:

- None.

Geospatial Assistance (GA) Project Team (Forming)

Brian Huberty, SharedGeo, bhuberty@sharedgeo.org, 651-706-6426

Meetings: February 10

Progress on work plan:

- Conduct at least three meetings of the Project Team during 2021
- One meeting to date – next meeting TBD
- Complete charter and work plan and receive approval from the EPC Leadership Team
 - No progress
- Develop first draft of procedures to help emergency managers understand steps for requesting aerial imagery and/or GIS support from federal, state and private assets
 - No progress

Additional comments:

- This Project Team will work to formalize procedures by which emergency managers can request aerial imagery and/or GIS support. Items developed for flooding in the Red River Valley in 2009 coming forward will be used as the starting point.

Situational Awareness Sharing Initiative (SASI) Project Team (Forming)

Nicole Helgeson, SharedGeo, (651) 285-5015

Meetings: No meetings

Progress on work plan:

- Conduct at least three meetings of the Project Team during 2021
 - No progress

- Complete rework of previous SASI charter and work plan and receive approval from the EPC Leadership Team
 - No progress
- Assume responsibility for continued development and maintenance of the Minnesota Situational Awareness Viewer (MNSAV – see: <https://www.mnsav.org>)
 - No progress
- Begin close coordination with the Critical Infrastructure Assessment Project Team to plan for eventual hosting of that Project Team’s data efforts on MNSAV.
 - No progress

Underground Utilities Mapping (UUM) Project Team – GAC PRIORITY

Barbara Cederberg, CEO, Gopher State One Call (GSOC), barbara.cederberg@gopherstateonecall.org,
651-681-7303

Stephen Swazee, MGAC EPC, Chair, chair@mgacepc.org, 651-456-5411

Meetings:

- January 20: Leadership team
- January 26: Large group
- February 19: Leadership team
- February 25: Large group
- March 18: Leadership team
- March 25: Large group
- April 23: Leadership team
- April 29: Large group
- May 21: Leadership team
- May 27: Large group

Progress on work plan:

- Conduct at least eight monthly meetings of the Project Team during 2021
 - Five meetings to date, September 30th next
 - Numerous CGA conference team meetings to plan presentation
- Complete at least one “low hanging fruit” action item by each of the Project Team’s four sub-groups
 - In working closely with One Call Concepts, Project Team has created prototype user interface for Gopher State One Call which displays a fusion map of underground utilities
 - Work commencing on prototype data management system
- Deliver at least one presentation about overall team efforts at an established community appropriate conference (or webinar)
 - Project Team will be presenting at [2021 Common Ground Alliance Conference & Expo](#), October 13, 2021, Orlando, Florida
 - Damon Nelson to present at MN GIS/LIS in late October
- Publish at least one article about the Project Team in a publication of importance to the industry
 - Damage Prevention-Pro article and MN Government e-bulletin: <https://dp-pro.com/minnesota-underground-utilities-mapping-project-team/> has opened discussion with contractors association in Pennsylvania

Additional comments:

- Commissioner Reinhardt, member of the Minnesota Clean Water Council's Policy Committee led efforts to pass a policy statement supporting the efforts of the UUMPT. Policy statement is planned to go before the entire council for vote on October 18.
- Project Team continues to receive briefs and documents from organizations around the world to determine steps other entities have taken to address the various problems due to the lack of geospatial awareness about underground infrastructure. Next event will be by 4M Analytics, an Israeli firm, who is using remote sensing to determine location of buried infrastructure.

U.S. National Grid (USNG) Project Team – GAC PRIORITY

Randy Knippel, GIS Manager, Dakota County, Randy.Knippel@co.dakota.mn.us, 952-891-7080

Meetings:

- January 27: National event - USNG Implementation Working Group online meeting
- April 28: National event - USNG Implementation Working Group online meeting

Progress on work plan:

- Conduct at least quarterly meetings of the USNG Implementation Working Group during 2021
 - Two to date, next TBD
- Develop documentation for production of 10K maps
 - In progress
- Refine, update, and publish Minnesota statewide 1K maps
 - Techniques developed for production of 10K maps will be used in this project
- Work with SharedGeo to complete a new USNG mapbook publishing application on USNG Center (www.usngcenter.org)
 - Prototype continues in testing and refinement
- Develop an introductory USNG video
 - Several EPC produced presentations now available on the [MGAC EPC YouTube channel](#).
 - Training plan for standardized presentations currently in development
- Conduct workshops and presentations where appropriate
 - Three online training sessions provided this CY to date.

Additional comments:

- Working closely with Cobb County, Georgia, EPC collaborative partner SharedGeo has developed a USNG ELM for marine shore locations and buoys.
 - Efforts to install ELMs are underway in Bayfield, Dane and Sawyer counties of Wisconsin.
-

Emergency Preparedness Committee

Report date: December 6, 2021

Prepared by:

- Chair: Stephen Swazee, Executive Director, SharedGeo, chair@mgacepc.org, 651-456-5411
 - Vice Chair: Randy Knippel, GIS Manager, Dakota County, vchair@mgacepc.org, 952-891-7080
-

Full Committee/Leadership Team

Meetings:

- Full committee: October 7, 3rd CY quarterly meeting, online
- Leadership Team: None this quarter

Progress on work plan:

- Conduct at least three meetings of the full committee during 2021
 - March 10, June 17, October 7 to date; December 15 next
- Conduct at least four meetings of the leadership team (Chair, Co-chair, and Project Team chairs)
 - January 20, April 14, June 8, next TBD
- Continue efforts to cleanup committee's online presence and bring efficiency to its IT infrastructure
 - Ongoing
- Randy Knippel to serve as EPC liaison to the [Metropolitan Emergency Managers Association](#) (MEMA) by attending that association's monthly meetings
 - Ongoing as defined above

Additional comments:

- MGACEPC YouTube channel showing past meetings and presentations, as well as those of EPC Project Teams (https://www.youtube.com/channel/UC3hwp5_9t3BkiTt-hyALArg) continues to have active interest. The channel has had over 1,500 views so far this CY.
 - The October EPC meeting included a presentation by Chair Swazee about the need for the Underground Utilities Mapping Project Team and the growing interest in that project from across the U.S. Video of this presentation can be found on the EPC YouTube channel.
-

Critical Infrastructure Assessment (CIA) Project Team – GAC PRIORITY
Stacey Stark, Associate Director, U Spatial, slstark@d.umn.edu, 218-726-7438

Meetings: 9/17/21, 10/15/21, 12/2/21

Progress on work plan:

- Conduct at least three meetings of the Project Team during 2021
 - Committee Meetings 3/16/21, 4/9/21, 5/21/21, 6/11/21, 7/16/21, 8/20/21, 9/17/21, 10/15/21, 12/2/21.
- Develop updated data model (prioritizing fire and police) based on the previous standards identified in Minnesota Structures Collaborative project
 - Sub meeting with HSEM 9/2/21

- Periodic communication with Esri, HSEM - their project was on hold.
- Maintain Esri online app for counties to validate their data (counties U-Spatial has other projects with, as a prototype for workflow).
 - Done, needs promotion.
- Publish comprehensive statewide dataset of fire and police to the [Minnesota Geospatial Commons](#)
 - Fire dataset published. Law Enforcement in progress.
- Present on this project at the Association of MN Emergency Managers in September 2021
 - Done.

Additional comments:

- None.
-

Geospatial Assistance (GA) Project Team (Forming)

Brian Huberty, SharedGeo, bhuberty@sharedgeo.org, 651-706-6426

Meetings: February 10

Progress on work plan:

- Conduct at least three meetings of the Project Team during 2021
 - Only one meeting in 2021. Next scheduled for January 2022
- Complete charter and work plan and receive approval from the EPC Leadership Team
 - No progress
- Develop first draft of procedures to help emergency managers understand steps for requesting aerial imagery and/or GIS support from federal, state and private assets
 - Draft guidance obtained from FEMA and DHS, placed on the EPC GDrive.

Additional comments:

- None.
-

Situational Awareness Sharing Initiative (SASI) Project Team (Forming)

Nicole Helgeson, SharedGeo, (651) 285-5015

Meetings: No meetings

Progress on work plan:

- Conduct at least three meetings of the Project Team during 2021
 - No progress
- Complete rework of previous SASI charter and work plan and receive approval from the EPC Leadership Team
 - No progress
- Assume responsibility for continued development and maintenance of the Minnesota Situational Awareness Viewer (MNSAV – see: <https://www.mnsav.org>)
 - No progress
- Begin close coordination with the Critical Infrastructure Assessment Project Team to plan for eventual hosting of that Project Team's data efforts on MNSAV.
 - Fire data set created by the CIA Project Team incorporated into MNSAV.

Underground Utilities Mapping (UUM) Project Team – GAC PRIORITY

Barbara Cederberg, CEO, Gopher State One Call (GSOC), barbara.cederberg@gopherstateonecall.org,
651-681-7303

Stephen Swazee, MGAC EPC, Chair, chair@mgacepc.org, 651-456-5411

Meetings:

- Leadership team: 9/24, 10/22, 11/19, next 12/10
- Large Group: 9/30, 10/28, next 12/16

Progress on work plan:

- Conduct at least eight monthly meetings of the Project Team during 2021
 - Leadership team: 1/20, 2/19, 3/18, 4/23, 5/21, 9/24, 10/22, 11/19
 - Large Group: 1/26, 2/25, 3/25, 4/29, 5/27, 9/30, 10/28
 - Numerous CGA conference team meetings to plan presentation
- Complete at least one “low hanging fruit” action item by each of the Project Team’s four sub-groups
 - Prototype data management system in design
- Deliver at least one presentation about overall team efforts at an established community appropriate conference (or webinar)
 - Project Team presented at [2021 Common Ground Alliance Conference & Expo](#), October 13, 2021, Orlando, Florida
 - Damon Nelton and Bob Basques presented at MN GIS/LIS on October 29
 - Chair Cederberg presented to AWPA on November 18
- Publish at least one article about the Project Team in a publication of importance to the industry
 - Currently working development of second article with Damage Prevention-Pro staff.

Additional comments:

- Commissioner Reinhardt, member of the Minnesota Clean Water Council’s Policy Committee led efforts to pass a policy statement supporting the efforts of the UUMPT. Policy statement was approved by the entire council on October 18. Discussions ongoing with Association of Minnesota Counties.
- Project Team continues to receive briefs and documents from organizations around the world to determine steps other entities have taken to address the various problems due to the lack of geospatial awareness about underground infrastructure. Latest development has been opening of discussions with various parties in the UK who lead the [Mapping the Underworld](#) effort.

U.S. National Grid (USNG) Project Team – GAC PRIORITY

Randy Knippel, GIS Manager, Dakota County, Randy.Knippel@co.dakota.mn.us, 952-891-7080

Meetings:

- None this period

Progress on work plan:

- Conduct at least quarterly meetings of the USNG Implementation Working Group during 2021
 - 1/27, 4/28, next January 2022.
- Develop documentation for production of 10K maps

- In progress
- Refine, update, and publish Minnesota statewide 1K maps
 - No progress
- Work with SharedGeo to complete a new USNG mapbook publishing application on USNG Center (www.usngcenter.org)
 - Prototype continues in testing and refinement: <https://usng-form.herokuapp.com/>
- Develop an introductory USNG video
 - Viewings continue of EPC produced presentations available on the [MGAC EPC YouTube channel](#)
 - Training plan for standardized presentations currently in development
- Conduct workshops and presentations where appropriate
 - October 27-29 – Presented at MN GIS/LIS Annual Conference twice; full presentation on “Introduction to the USNG” and a lightning round on the same topic. Three online training sessions provided this CY to date.

Additional comments:

- Efforts to install ELMs continue in Bayfield, Dane and Sawyer counties of Wisconsin.
 - Created 10K maps for Wisconsin as a follow-up to the USNG presentation at WLIA in March. Created new map repository on the USNG IWG cloud storage.
 - <https://arcg.is/1rHLC9>
 - http://usngi.org/maps/Wisconsin/10K/Aerial/15TYL31_aerial.pdf
 - Corrected all Wisconsin maps along the grid zone junction based on feedback from Oneida County, WI.
-

Minnesota Geospatial Advisory
Council Emergency Preparedness
Committee Work Plan

Work Plan for 2022

Planned Activities and Deliverables:

Full Committee/Leadership Team

- Conduct at least three meetings of the full committee during 2022
- Conduct at least four meetings of the leadership team (Chair, Co-chair, and Project Team chairs)
- Continue efforts to cleanup committee's online presence and bring efficiency to its IT infrastructure
- Randy Knippel to serve as EPC liaison to the [Metropolitan Emergency Managers Association](#) (MEMA) by attending that association's monthly meetings

Critical Infrastructure Assessment (CIA) Project Team – MGAC PRIORITY

- Conduct at least three meetings of the Project Team during 2022
- Develop updated data model (prioritizing fire and police) based on the previous standards identified in Minnesota Structures Collaborative project
- Publish comprehensive statewide dataset of police to the Minnesota Geospatial Commons
- Pursue a long-term workflow to keep fire, law enforcement updated annually
- Request validation for 9 counties U-Spatial has projects with and remaining metro counties
- Maintain Esri online app for counties to validate their data (counties U-Spatial has other projects with, as a prototype for workflow)
- Develop workflow coordination with HSEM for fire, police, hospitals, schools.
- Continue to validate workflow with other partners
- Catalog available authoritative data sources
- Publish "C.I. resource site" on either MnGeo website or GAC Hub
- Develop strategy for outreach /promotion of work (use of GAC Hub)

Geospatial Assistance (GA) Project Team

- Conduct at least three meetings of the Project Team during 2022
- Complete charter and work plan and receive approval from the EPC Leadership Team
- Develop first draft of procedures to help emergency managers understand steps for requesting aerial imagery and/or GIS support from federal, state and private assets

Situational Awareness Sharing Initiative (SASI) Project Team

- Conduct at least three meetings of the Project Team during 2022
- Complete rework of previous SASI charter and work plan and receive approval from the EPC Leadership Team
- Assume responsibility for continued development and maintenance of the Minnesota Situational Awareness Viewer (MNSAV – see: <https://www.mnsav.org>)
- Continue building close coordination with the Critical Infrastructure Assessment Project Team to add that Project Team's data sets on MNSAV as they become available.

Minnesota Geospatial Advisory Council Committee/Workgroup Work Plan

Underground Utilities Mapping (UUM) Project Team – MGAC PRIORITY

- Conduct at least eight monthly meetings of the Project Team during 2022
- Produce a “Way Forward” blueprint document
- Complete development of a prototype system which can aggregate diverse utility geospatial data and make available for other project identified needs
- Deliver at least one presentation about overall team efforts at an established community appropriate conference (or webinar)
- Publish at least one article about the Project Team in a publication of importance to the industry
- Continue efforts to develop project champions in the underground utility and regulatory communities

U.S. National Grid (USNG) Project Team – MGAC PRIORITY

- Conduct at least quarterly meetings of the USNG Implementation Work Group during 2022
- Develop documentation for production of 10K maps
- As appropriate, publish or assist other government entities with publication of USNG maps for their areas of responsibility
- Refine, update, and publish Minnesota statewide 1K maps
- Work with SharedGeo to complete a new USNG mapbook publishing application on USNG Center (www.usngcenter.org)
- Continue development of USNG training videos focused on USNG map production
- Conduct workshops and presentations when appropriate

Roles and Responsibilities:

Role	Name	Affiliation
Chair - EPC	Steve Swazee	Executive Director, SharedGeo
Vice Chair - EPC	Randy Knippel	GIS Manager, Dakota County
Chair - Critical Infrastructure Assessment (CIA) Project Team	Stacey Stark	Associate Director, U Spatial
Chair - Geospatial Assistance (GA) Project Team (pending)	Brian Huberty	Retired remote-sensing expert
Chair - Situational Awareness Sharing Initiative (SASI) Project Team (pending)	Steve Swazee	Executive Director, SharedGeo
Chair - Underground Utilities Mapping (UUM) Project Team	Barb Cederberg	COO, Gopher State One Call
Chair - U.S. National Grid (USNG) Project Team	Randy Knippel	GIS Manager, Dakota County

- Project Teams vary greatly in size but must have a minimum of five participants to be approved by the EPC Leadership Team. It is anticipated that in 2022, more than 50 individuals will be participating in EPC Project Team activities.

Minnesota Geospatial Advisory Council Committee/Workgroup Work Plan

Resources:

- Committee members primarily rely on resources available to them through their employer, with their employer's endorsement:
 - Time commitment
 - Software and hardware
 - Expenses
- EPC's dedicated Zoom, YouTube, Twitter, Facebook, Eventbrite and Mail Chimp accounts
- EPC's developed Google based online collaborative system for supporting back office administrative functions
- SharedGeo funding and resources

Committee/workgroup needs:

- Through access to the above described resources, it is believed the EPC has all items necessary to successfully commence and complete operations as envisioned during this calendar year

Dependencies and Interrelationships:

- Other MGAC committees/work groups that depend on this committee's success or vice versa:
None known
- Describe any relationships that exist with other committees/work groups: None known
- Other: Through the legislation enacting the MGAC, this Committee occasionally requires the following support from MnGeo:
 - Administrative assistance
 - Hosting of EPC products
 - Promotion of EPC efforts with the state's interagency

Risks:

- List risks which could impede the Project Team's ability to successfully accomplish its goals.
 - Volunteer support and engagement erodes
 - Stakeholders refuse to support efforts
- List steps which can be taken to mitigate the risks?
 - Ensure the EPC's Project Teams have solid leadership, as well as access to responsive and effective administrative support
 - Use outreach to highlight the value of Project Team efforts to stakeholders, team employers/participants, Minnesota government and the public

Additional Comments:

- Although not an official Project Team, the 20 plus individuals who have volunteered to be available to assist other GIS personnel during disasters have now formally agreed to review and update the Geospatial Emergency Management Specialist (GEMS) training program previously created by the EPC's Education Work Group in 2010. This effort is planned to get underway in January 2022.

Minnesota Geospatial Advisory Council Committee/Workgroup Work Plan

- In 2021, in addition to considerable manhours, SharedGeo donated \$500 to the EPC to pay for direct administrative costs (Zoom, etc.)
- Chair Swazee firmly believes extent of EPC activities clearly demonstrates the need for a dedicated, full-time support employee assigned to MnGeo. This concept was previously discussed during creation of legislation which brought into existence the MGAC and MnGeo. 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.

Date Approved by the Minnesota Geospatial Advisory Council:

Image Service Sustainability

Image Service Sustainability Committee

Report date: 12/03/2021

Prepared by:

Matt McGuire

Metropolitan Council

matt.mcguire@metc.state.mn.us

651.602.1964

Meetings:

No meetings since the last status report

Progress on work plan:

MnGeo has been making progress on an imagery viewer using Esri Experience Builder. It is almost ready for review.

Additional comments:

Minnesota Geospatial Advisory Council
Minnesota Geospatial Image Service Sustainability Committee Work Plan

Image Service Sustainability Committee

Work Plan date: 2022

Chair and vice chair:

Matt McGuire (matt.mcguire@metc.state.mn.us)

Mike Dolbow (Mike.dolbow@state.mn.us)

[Committee/workgroup Charter](#)

Accomplishments from 2021

Submitted layer addition recommendations to MnGeo.

Submitted layer removal recommendations to MnGeo

Submitted Composite Image Service Layer definition recommendation to MnGeo

Submitted Technical Enhancement Recommendations to MNGeo.

Work Plan for 2022

Planned activities and deliverables:

- Follow up with MnGeo about layer status changes from 2021 (December 2021)
- Get yearly usage stats from MnGeo (goal: early January)
- Layer Status Change Meeting (goal: by Jan 30, 2022)
- Technical Recommendations to MnGeo (goal: by Feb 28th, 2022)
- Composite Layer Definition Change Recommendation to MnGeo (goal: Feb 28, 2022)
- Inform GAC and Archiving Committee of layer status change recommendations (goal: by Feb 28, 2022)

Roles and responsibilities:

Name	Role
Matt McGuire	Schedule and conduct meetings. Update team site with notes, recommendations and any changes to plan document. Communicate layer status changes to GAC
Mike Dolbow	Ensure notes are taken.
Alison Slaats	Represent MnGeo (Service Owner). Communicate layers status changes to MnGeo and communicate from MnGeo to the committee as necessary.

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Minnesota Geospatial Image Service Sustainability Committee Work Plan

Brent Lund	Technical Liaison. Provide service metrics used as basis for status change discussion quarterly or yearly.
Jennifer Corcoran	Represent Forestry needs in discussions
Nancy Read (MMCD)	Represent Metro Regional Agency needs
Dennis Kepler	Represent Greater MN in discussions
Ryan Mattke	Represent the University of Minnesota, research/library needs and the GAC's Archiving Implementation Workgroup in discussions
Chris Mavis	Represent Surveying needs in discussions
Joe Sapletal	Represent County GIS needs in discussions

Resources:

- MnGeo Image Server usage layer list and annual layer usage metrics.
- MnGeo Image Server Sustainability Plan document

Committee/workgroup needs:

Dependencies and interrelationships:

Communicate with GAC Archiving Committee. If an adequate and agreed-upon “archiving method” does not present itself before layers are to be removed from the service, that may prove to be a blocker for this Committee’s work.

Risks:

Possibility of group not agreeing on any layers to remove. Mitigation approach is to rewrite document as needed to ensure MnGeo has the power and consent to remove low usage layers as necessary to sustain the service.

Risk – members of the broader community may insist on all layers existing forever.

Additional Comments:

- There will be a consistent need to communicate the goals of this Committee and what precisely potential status changes mean. Otherwise stakeholders will need to be continually educated about what it means to remove a layer from the service, because many will interpret that as “being deleted forever”.

Date approved by the Geospatial Advisory Council:

Outreach Committee

Report date: 12/15/2021

Prepared by:

Cory Richter

City of Blaine

crichter@blainemn.gov

763-717-2639

Meetings:

No meetings since the last status report

Progress on work plan:

No additional progress to report

Additional comments:

Need to appoint a Chair and Vice Chair. Seeking additional members.

Minnesota Geospatial Advisory Council
Committee/Workgroup Status Report

Parcel Land Records Committee (PLRC)

Report date:

12/03/2021

Prepared by:

Preston Dowell, 218-742-9824, dowellp@stlouiscountymn.gov

Meetings:

Whole PLRC - NA

Boundary Alignment subcommittee – November 16 2021

Open Data subcommittee – September 28, November 30

Remonumentation subcommittee – 10-4, 10-15, 10-19, 10-26, 11-2, 11-8, 11-17, 11-29

Progress on work plan:

The work of the PLRC is primarily completed by in the subcommittees as outlined below

Boundary Alignment Subcommittee

The boundary alignment subcommittee has made progress on multiple fronts. All activities support GAC Priority 3 “Updated and aligned boundary data from authoritative sources”

1) MN PLSS Status Map

[The MN PLSS Status Map](#) was developed as a repository for available basic certified PLSS data. The map has been transitioned this map to MnGeo servers. It needs to be updated with some current data (see open data). Next steps is to revise it to make more current and add more digital data.

2) Arrowhead Alignment Project

The Arrowhead GIS Collaborative (Itasca County, St. Louis County, Carlton County, Lake County, Cook County) has decided to align their common county boundaries. The PLRC is supporting this process by attending meetings and providing guidelines and support. We hope to document the process of this project and apply it to future alignment projects.

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Open Data Subcommittee:

November 2021

The PLRC Open Data Parcel Workgroup met twice (September 28, November 30) since the last GAC meeting.

The Open Data Parcel Workgroup defined goals and defined working teams. The teams, their overall goals are shared in the table below. Each team has met and is actively working towards their goals.

The activities of the Open Data Parcel Subcommittee support GAC priority 2 “Statewide publicly available parcel data”

The working teams have the following updates:

- Online Communication Team: Overall goal: Share open parcel data vision and status of data & sets up the hub site
 - The team is planning creation of a StoryMap explains the business need for statewide aggregated parcel data, and the team is currently work on stories to include.
 - A [webmap](#) was created to include in the StoryMap that includes open data status of each county with popup attributes providing link to open data site and/or data download links
- Operational Team: Overall goal: products to describe parcel data
 - cross reference spreadsheets between County fields and GAC standard fields were created, shared with counties in September. Several counties responded and this will improve aggregated parcel dataset quality.
 - Summary spreadsheet was created to show percent completeness of GAC field shared with MnGeo for parcel aggregate
 - Metadata & Commons resource for Open Data Parcel version of the aggregated dataset being worked on
- County Outreach Team: Overall goal: Publish aggregated parcel dataset of all open data counties.
 - County team has been reaching out to neighboring counties to speak about open data
 - Survey was sent to counties on 12/3 to assess interest in open data and ask counties if they would like to be included in a public cut of the aggregated parcel dataset. Results will be brought to the 12/15 GAC meeting, and release of an open parcel dataset including counties that would like to be included is planned for January 2022.
- PRISM Exploration: Overall goal: Evaluate PRISM data for use with parcel boundaries
 - PRISM data was reviewed, and a comprehensive spreadsheet was created that compares PRISM data with GAC-standard fields. The result is that some, but not all, GAC parcel fields could be met with PRISM fields. It was decided that obtaining GAC parcel

Minnesota Geospatial Advisory Council Committee/Workgroup Status Report

attributes from PRISM would not be pursued at this time. Instead, the subcommittee will focus on working with counties through the County Outreach team.

The Remonumentation Subcommittee:

The Remonumentation Subcommittee has met several times in the past 3 months.

The activities of the Remonumentation Subcommittee support GAC priority 14 “Remonumentation of all section corners in the state”.

The subcommittee developed a hub initiative site:

<https://mnpplss-umn.hub.arcgis.com/>

The site is intended to be a place for people to find out about PLSS remonumentation and to keep the message clear and concise.

The subcommittee is in the process of developing a business case and proposed legislation. The legislation is based on the Michigan Remonumentation model. The subcommittee is meeting weekly to complete this work. We want to submit this legislation for the upcoming session.

The Subcommittee is seeking letters of support from numerous entities. We are trying to show that there is a large coalition of stakeholders that support this initiative.

The Meet Me at the Corner event was canceled this year due to the GIS/LIS Conference transitioning to a virtual format. There is a possibility that Kandiyohi County will host the event next year.

Additional comments:

Thank you to the GAC for the letter of support. The letter of support will support the remonumentation effort and help keep this priority moving forward.

Parcels and Land Records Committee

Work Plan date:

12/03/2021

Chair:

Preston Dowell
Chair, Parcels and Land Records
Deputy County Surveyor
St. Louis County
218-742-9824

Link to committee/workgroup charter:

https://www.mngeo.state.mn.us/committee/cadastral/parcels_and_land_records_committee_charter.pdf

Accomplishments from 2021

Committee of the Whole

- Established Boundary Alignment Subcommittee, Open Data Subcommittee, The Remonumentation Subcommittee. Accomplishments for each subcommittee is found below.
- Established a SharePoint (hosted by MnGEO) site for committee member collaboration.

Boundary Alignment Subcommittee:

- Met 4 times, defined goals and priorities.
- Created Boundary Alignment definition.
- Supported Arrowhead Boundary Alignment project.
- Transitioned PLSS Status Map to MnGEO
- Compiled boundary alignment best practices and other documents
- Participated in Remonumentation Subcommittee which supports boundary alignment

Open Data Subcommittee:

- Met five times in 2021 and defined goals
- Created four working teams to work on tasks to work towards goals
- Defined outreach regions in Minnesota to communicate about open parcel data
- Created products to describe current state of statewide aggregated dataset (for state use only)
- Evaluated PRISM data as a source of attributes for statewide parcel datasets by cross-referencing with GAC parcel standard
- Created and shared a survey to counties to assess their open data status, and specifically ask if the county would like their data included in a public GAC-standard aggregated parcel dataset
- Working on creation of a StoryMap that explains the business need for statewide aggregated parcel data
- Created a web map that includes county open data status, links to open data site and data download links

Remonumentation Subcommittee:

This subcommittee has been meeting every week for the last half of 2021. We have been working on Legislation, a Business Case and Letters of Support from different organizations across Minnesota. We are planning on having these all done by the end of the year.

Work Plan for 2022

Planned activities and deliverables:

Boundary Alignment Subcommittee:

Continue to support and promote boundary alignment in various ways.

- Continue outreach on why boundary alignment is necessary and how we plan on achieving it (GAC Priority #2).
- Help MnGeo modify PLSS Status Map. Add more county data.
- Support/Document Arrowhead Alignment.
- Support Remonumentation Subcommittee.

Open Data Subcommittee:

Continue work to promote open data and work with Counties to sharing their parcel data publicly (*GAC Priority #2*).

- Continue regular subcommittee meetings and working teams meeting to work towards goals
- Continue outreach to individual counties to support their efforts to become open data counties and encourage counties to share parcel data publicly.
- **Publish quarterly public GAC-standard aggregated parcel dataset for counties that *opt in***
- Publish metadata and summary products to describe public GAC-standard aggregated parcel dataset
- Share survey each quarter with counties to assess their open data status, and specifically ask if the county would like their data included in the next quarter public GAC-standard aggregated parcel dataset
- Bring results of survey to the GAC each quarter to recommend to MnGeo which counties to include in the quarterly public GAC-standard aggregated parcel dataset
- Complete StoryMap that explains the business need for statewide aggregated parcel data
- Maintain a web map that includes county open data status, links to open data site and data download links

The Remonumentation Subcommittee

Begin development of a PLSS inventory for the State of Minnesota. Begin development of a PLSS corner standard. Build awareness for the need of a PLSS remonumentation program (*GAC Priority #14*)

Work with legislators on approving Legislation and continued funding for Remonumentation and Maintenance of the PLSS Corners in Minnesota in the 2022 legislative session.

Support effort by MnGEO to implement Land Survey Coordinator Position at MnGEO (*GAC Priority #2,#3,#14*).

Roles and responsibilities:

The committee will be working closely with the surveying community and its members. Roles and responsibilities of committee members will be defined as the phases of the project plans are developed and implemented.

Current Member List:

NAME	AGENCY	COMMITTEE AFFILIATION
Bob Beutel	Retired (Attorney)	Parcel and Land Records Committee member
Curtis Carlson	MNIT MnGeo	NG911 central region contact
Preston Dowell	St Louis County	Committee Chair
Mike Fangman	Rice County	MACS, MSPS
Sam Gibson	Washington County	PLRC, MACS, MSPS
Chuck Gitzen	Anoka County	MACS, MSPS
Julie Groetsch	MnDOT	Parcel and Land Records Committee member
Kendall Hillis		Parcel and Land Records Committee member
Peter Jenkins	MnDOT	Parcel and Land Records Committee member
Chris Jensen	Stearns County	Parcel and Land Records Committee member
Kevin Kaley	City of St. Paul	pLSS Remonumentation Subcommittee
Mike Koutnik	Retired (former Esri)	Parcel and Land Records Committee member
Andrew Lundgren	St. Louis County	Parcel and Land Records Committee member
Justin Lutterman	Le Sueur	Boundary Alignment Subcommittee
Geoffrey Maas	Ramsey County	Standards Committee, chair (also member of Outreach Committee)
Karen Majewicz	UMN	Parcel and Land Records Committee member
Chad Martini	Stearns County	Parcel and Land Records Committee member
Robin Mathews	Pine County Surveyor	Parcel and Land Records Committee member
Chris Mavis	Hennepin County	GAC, MACS, MSPS
Tyler McAlear	St Louis County	Parcel and Land Records Committee member
George Meyer	Otter Tail County	Parcel and Land Records Committee (Former chair) + Standards Committee member
Ryan Miller	Hubbard County	PLSS Remonumentation Subcommittee
Martin Mollenhauer	Otter Tail County	Boundary Alignment Subcommittee
Rick Morey	Retired (former MnDOT)	Parcel and Land Records Committee member
Frankie Mpagi	Winona County	Boundary Alignment Subcommittee

Liz Puhl	Regrid	Parcel and Land Records Committee member
Bart Richardson	MnDNR	Parcel and Land Records Committee (former chair) + Standards Committee member
Renee Rosenow	Stearns County	Parcel and Land Records Committee member
Dan Ross	MNIT MnGeo	GIO, participates in all Committee meetings;
Katie Rossman	MNIT DNR	Parcel and Land Records Committee member
Ken Roy	Bureau of Land Management Washington	Parcel and Land Records Committee member
Nathan Schilling	County	Parcel and Land Records Committee member
Dan Schmitz	Stearns County	Parcel and Land Records Committee member
Megan Sisko	NG 911	Boundary Alignment Subcommittee
Alison Slaats	MNIT MnGeo	Parcel and Land Records Committee member
Mark Sloan	Clay County	Parcel and Land Records Committee member
Stacey Stark	UMD	Parcel and Land Records Committee member
Jeff Storlie	St. Louis County	Parcel and Land Records Committee member
Ryan Stovern	St. Louis County	Parcel and Land Records Committee member
Kory Thurnau	USFS Superior Douglas County	PLRC, MACS, MSPS
Patrick Veraguth	Surveyor	Parcel and Land Records Committee member
Mark Volz	Lyon County	Parcel and Land Records Committee member
Sally Wakefield	MN DOR	PLRC, MACS, MSPS
Jen Ward	Pro-West	Parcel and Land Records Committee member
Hal Watson	MNIT DNR	Parcel and Land Records Committee member
Michael Zabinski	MN DOR	Parcel and Land Records Committee member

Resources:

At this time the primary resources needed are time on the behalf of the committee members, and interested stakeholders, along with locations for meeting locations and conference calls. These resources will be provided in kind by committee members.

The PLSS inventory mapping application is now hosted and maintained by MnGEO. Support of MnGEO technical resources and staff will be needed to improve the data and usage of this map.

The MnGEO hosted SharePoint site will need to maintained in order to continued committee work.

Dependencies and interrelationships:

Continued interaction with the Standards Committee will be needed to provide feedback as questions and/or comments are received on the parcel data standard. Outreach and communication will also take an important role in promoting use and participation in the standards data sharing. We will need to collaborate with the outreach committee to promote and expand statewide publicly available parcel data.

Risks:

The primary risk of both parcel data sharing and an eventual PLSS data sharing will be resistance by the data authorities. Mitigation continues to be outreach, and promotion of the benefits of data sharing.

The available time of PLRC members will also be a risk in developing and maintaining the PLSS status map. This project will take significant effort to build and maintain. The implementation of a Survey Coordinator position would also help mitigate the volunteer time needed for the PLSS status map as well as other responsibilities defined in the PLRC projects.

Additional Comments:

None

Date approved by the Geospatial Advisory Council:

Minnesota Geospatial Advisory Council
Committee/Workgroup Status Report

Standards Committee

Report date:

November 23, 2021

Prepared by:

Mark Kotz, Chair (mark.kotz@metc.state.mn.us)

Curt Carlson, Vice Chair (curtis.carlson@state.mn.us)

Meetings in 2021:

1/20/21 Bikeways Standards subgroup

1/26/21 full committee

2/3/21 Bikeways Standards subgroup

2/11/21 Bikeways Standards subgroup

2/22/21 Bikeways Standards subgroup

3/1/21 Bikeways Standards subgroup

3/17/21 full committee

5/17/21 Bikeways Standards subgroup

5/24/21 Metadata Standard subgroup

5/27/21 Bikeways Standard subgroup

6/15/21 Metadata Standard subgroup

6/29/21 full committee

7/8/21 Metadata Standard subgroup

9/3/21 Bikeways Standard subgroup

Full committee [Meeting minutes available here](#)

Progress on work plan:

- Work with stakeholder groups to modify remaining original Governor's Council on Geographic Information (GCGI) standards to the GAC format and have adopted by the GAC. This will involve review and possibly changes to these standards.
 - Minnesota Geographic Metadata Guidelines: A subgroup has formed to finalize a draft of version 2 of the Minnesota Geographic Metadata Standard
 - Codes for Identifying Reaches and Watercourses: a subgroup of the 3D Geomatics Committee has proposed a modified version of the standard
 - Codes for Identifying Watersheds: no progress
 - Codes for Identifying Lakes and Wetland Basins: no progress
- Complete the Bikeways Data Standard for approval by the GAC
 - Second public review period was spring of 2021
 - Standard approved by the GAC 9/29/21
 - Initial work has begun on a Bikeways Data Standard usage guide.

Minnesota Geospatial Advisory Council Committee/Workgroup Status Report

- Facilitate the creation of usage guides for key GAC standards.
 - A stakeholder group is working on a usage guide for the Bikeways Data Standard
- If ready in 2021, work with stakeholders on an emergency service provider boundary standard
 - No work by the Standards Committee
- If ready in 2021, work with stakeholders on a stormwater data standard
 - MetroGIS is working on this. No formal work by the GAC Standards Committee.

Minnesota Geospatial Advisory Council Committee/Workgroup Work Plan

Standards Committee

Work Plan date: December 2, 2022

Chair and Vice Chair: Chair, Mark Kotz
Metropolitan Council

Vice Chair, Curt Carlson
MnGeo

Link to charter: <https://www.mngeo.state.mn.us/committee/standards/>

Accomplishments from 2021

- **Bikeways Data Standard**
 - Completed second public review period of the standard.
 - Final standard approved by GAC
- **Metadata Standard**
 - Began process to revise old GCGI metadata guidelines into a GAC standard.

Work Plan for 2022

Planned activities and deliverables for 2022:

- Add something about updating our workflow to more deliberately announce/promote newly approved standards
- Work with stakeholder groups to modify remaining original Governor's Council on Geographic Information (GCGI) standards to the GAC format and have adopted by the GAC. This will involve review and possibly changes to these standards.
 - Minnesota Geographic Metadata Guidelines
 - Codes for Identifying Reaches and Watercourses
 - Codes for Identifying Watersheds
 - Codes for Identifying Lakes and Wetland Basins
- Facilitate the creation of usage guides for key GAC standards
- If ready in 2022, work with stakeholders on an emergency service provider boundary standard
- If ready in 2022, work with stakeholders on a stormwater data standard

Roles and responsibilities:

The Standards Committee's primary responsibility is to facilitate and manage a transparent and inclusive process by which geospatial standards can be proposed, discussed, refined, adopted, and revised for the benefit of the broad Minnesota geospatial community.

Resources:

The primary resources needed by the Committee are contributions of members' time and expertise. The Committee requires the use of MnGeo staff time for updating and maintaining its web presence

Minnesota Geospatial Advisory Council Committee/Workgroup Work Plan

Committee needs:

- Continued commitment of committee leaders to provide key direction, support and work
- Committee member active participation
- Support for creation and maintenance of standard domains and standard validation tools (Met Council staff currently providing this support)
- MnGeo hosting of GAC website and committee file sharing site
- Organization and leadership of stakeholder groups who are creating proposed standards
- Individual stakeholders willing to provide comment and feedback on standards

Dependencies and interrelationships.

The Standards Committee has been committed to maintaining solid relationships with other committees, work groups, stakeholder groups and organizations. The Standards Committee is dependent on stakeholder interests with a business need to develop and advance candidate standards which aim to satisfy those needs.

Risks:

Potential risks include burnout of key leaders or inability of leaders to commit the significant time required for this committee to be successful, reduction in interest and participation of members, meeting fatigue, lack of clarity or understanding about the GAC standards process

Date approved by the Geospatial Advisory Council: