

Minnesota Geospatial Advisory Council Meeting

March 30, 2022

Webex. See meeting invitation for details.

10:00 – 12:00

Agenda

1. Call to Order (Chair)	10:00	10 min
a. Introductions		
b. Approval of Agenda		
c. Approval of Meeting Minutes from January 19, 2022		
2. Review and Accept Committee Summaries (All)	10:10	10 min
a. New CJIS charter		
b. Report templates		
c. Committee recruitment		
3. Award Committee update (Kne, Nagel)	10:20	5 min
4. Archiving workgroup final report (Mattke, Majewicz)	10:25	15 min
5. Open parcel data update (Stovern)	10:40	10 min
6. PLSS Legislation and GAC role (Dowell)	10:50	10 min
7. Break	11:00	5 min
8. Lidar update (Vaughn)	11:05	10 min
9. Tribal Sector Report (Bonney)	11:15	10 min
10. Legislative Updates (Slaats)	11:25	5 min
11. Updates on MN GAC Priority Projects and Initiatives (Brandt)	11:30	20 min
12. Announcements or Other Business	11:50	10 min
13. Adjourn	12:00	

CJIS Best Practices and Data Standards Guide for GIS

Mission statement:

To provide best practices based on Criminal Justice Information Services (CJIS) information sharing rules for connecting law enforcement and other CJIS regulated data to GIS systems for analysis and sharing

Objectives and Deliverables:

1. Discern CJIS-compliant best practices for sharing data within the GIS community, perhaps specifically as it relates to Emergency Management or critical incidents and infrastructure
2. Create a data standard and/or best practices guide for statewide use across the GIS community
3. Use these principles to inform future projects, specifically the upcoming projects around statewide, publicly available authoritative geospatial data for businesses with state-required licenses, permits, or registrations and Summary data by region for property crimes in an accessible GIS format

Resource requirements and timing:

Initial meeting to determine scope and resources – April/May

Secondary meeting to create initial draft – July/August

Final draft of CJIS best practices guide and presentation to the MNGAC – late fall or winter, TBD

Anticipated participants and their roles and responsibilities:

Britta Maddox, MNGAC Member-at-large, Committee/workgroup chair

Cory Richter, MNGAC Member, Committee/workgroup vice-chair

Trish Heitman-Ochs, Criminal Analyst for Woodbury PD, member

Carey Strouse, Criminal Analyst for Coon Rapids PD, anticipated member

Representative from the BCA, to be named later

Other Subject Matter Experts as needed

Prepared by:

Britta Maddox, MNGAC member-at-large

Date approved by the Geospatial Advisory Council:

GAC Work Plan

Work Plan date: February 22, 2022

Chair and vice chair: Cory Richter, David Brandt

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

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

Accomplishments from 2021

- Approved a Bikeways Data Standard
- Approved Archiving Implementation Pilot Workgroup
- The 3D Geomatics Committee was recognized by the National States Geographic Information Council with the Catalyst Award for extraordinary effort and results in getting things done.
- The Clean Water Council adopted a policy position in favor of the Emergency Preparedness Committees Underground Utilities Mapping Project
- Conducted the annual Minnesota Geospatial Priorities Survey and prioritization process
- Approved the Geospatial Commons Advisory Committee as a GAC committee and approved its charter (Note: this committee has not formed)
- See [committees and workgroups page](#) for their annual reports with 2021 accomplishments

Work Plan for 2022

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 2022 planned activities

2022 Priorities

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

Roles and responsibilities:

Chair: Cory Richter

Vice Chair: David Brandt

MnGeo Ex-Officio member/CGIO:

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

Members: Jeff Bloomquist, Dave 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:**

3D Geomatics Committee Status Report

Report Date:

March 29, 2022

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

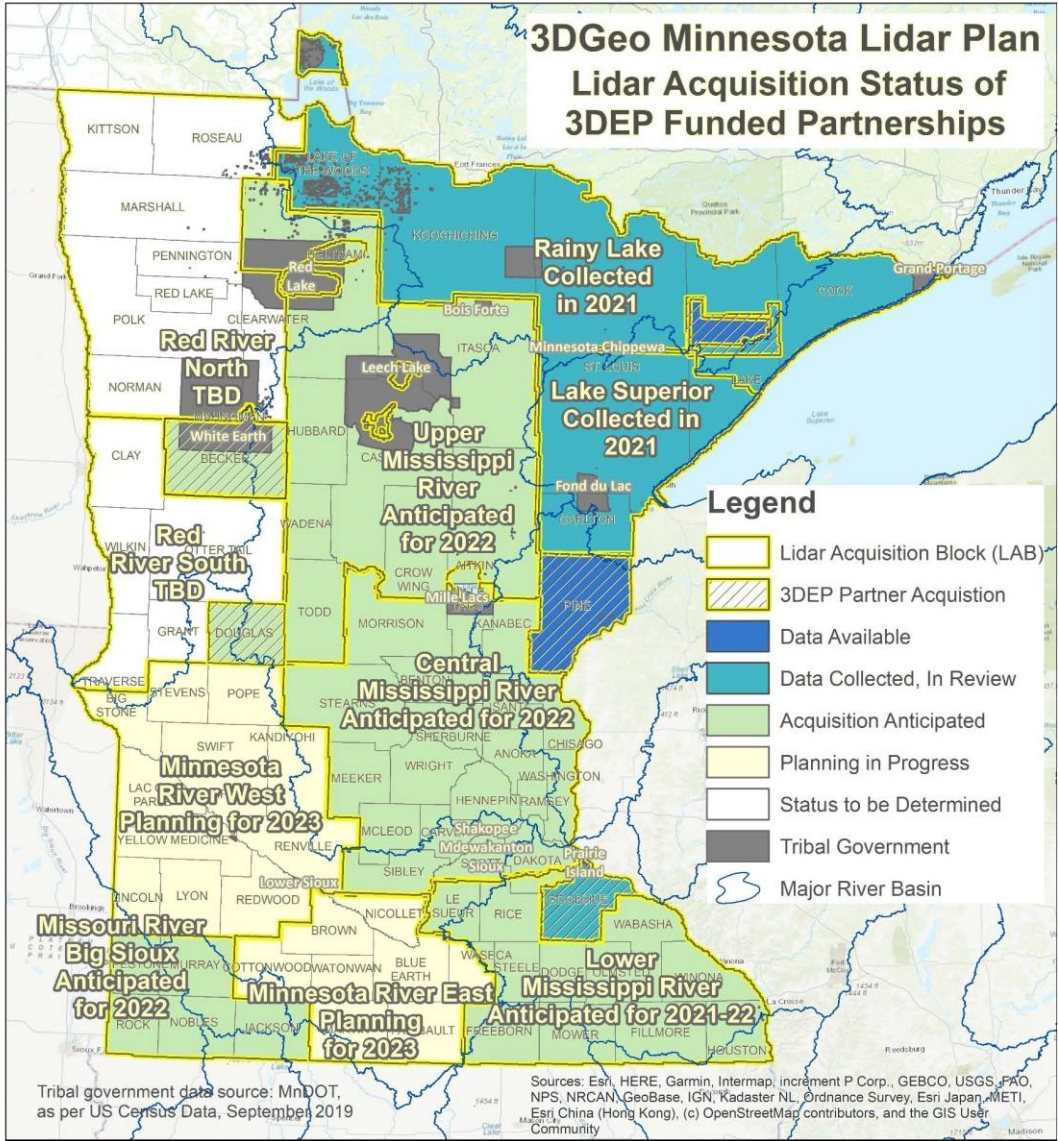
Meetings: 02/15/2022, 03/15/2022

- 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 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.
- Representatives attended monthly 3DGeo Steering Team meetings
- 3D Geo team representatives attended National States Geographic Information Council (NSGIC) 3DEP Group Meetings about lidar.
- Established LAB Coordinators to help steer activities and communications with LAB partners
- Team continues to coordinate with MnGeo Discovery project that will focus on data storage and discovery for lidar data.

- Won NSGIC 2021 Geospatial Excellence Award for work on lidar acquisition: <https://nsgic.memberclicks.net/2021-geospatial-excellence-awards-announced>
- Planning underway for spring 2022 acquisition in 6 areas:
 - Lower Mississippi (SE)
 - Missouri/Big Sioux (SW)
 - Upper Mississippi
 - Central Mississippi
 - Becker County/Otter Tail
 - Douglas County
- Received the Outstanding Team Achievement in Lidar award through the Geo Week Awards sponsored by LIDAR Magazine, Lidar News, and ASPRS.



Some anticipated 2022 collections began in 2021 and will finish being collected in spring 2022. TBD areas need 3DEP partners.



Map Date: Dec 17, 2021

Infrastructure Workgroup

- Workgroup continues to support the Acquisition Workgroup
- Representatives attended monthly 3DGeo Steering Team meetings

Vegetation Workgroup

- Workgroup continues to support the Acquisition Workgroup
- Representatives attended monthly 3DGeo Steering Team meetings
- Established a [workgroup web page](#) and SharePoint site
- 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: 9/14/2021, 10/12/2021, 11/9/2021, 12/14/2021, 2/8/2022, 3/8/2022

- 2022 Workplan approved at November meeting
- September, October, and December meetings focused on developing a roadmap for Next Generation Hydrography (NXG-Hydro)
- November meeting focused on GIS/LIS Conference reports, Lidar Acquisition updates
- February meeting introduced the concept of Geomorphons, a pattern recognition and terrain characterization technique. The Workgroup is discussing whether this is a tool we can use for hydrography creation.
- March meeting was an introduction and relationship building with USGS National Map Liaison, 3D Hydrography Program
- Foundational Hydrography Data Stewards held quarterly meetings 10/25/2021, 1/24/2022
- DEM Hydro-modification Subgroup continues to meet monthly

Progress on work plan:

- Maintained workgroup SharePoint site, and worked with MnGeo to maintain the workgroup web page
- Developed roadmap for NXG-Hydro development
 - Identified key steps and estimated timeline
 - Gathered input and needs statements from members
 - Started discussion on communication and outreach plan to inform decision-makers and data users about the process of going from lidar data to usable hydrography products

- Foundational Data Stewards
 - Worked with GAC Standards committee to review and advance the watercourse ID standard
 - Focused discussion on organizing existing authoritative data sources and being ready to act on new hydro data creation when lidar data become available
- DEM Hydro-modification subgroup
 - Goodhue County High Resolution DEM - Breachline pilot project: Pilot project to inform future efforts of using existing breachlines with the high resolution DEM's from the current Lidar collect
 - Updating breachline dataset with more recent datasets that are being completed by Subgroup members – Exploring database structure for breachlines
 - Continued improvements to MN DEM Hydro-modification Review Web Application detailing locations and completeness of breachline datasets within Minnesota
 - Ongoing discussions of standards and best practices in DEM hydro-modification.

Education Workgroup

Prepared by: Joel Nelson

Workgroup meetings: 2/2/2021, 3/2/2021, 7/2021, 10/4/2021, 12/7/2021

- 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.

Progress on work plan:

- Inventoried existing education and training materials – ongoing
- Identified Education Agency Liaisons
- Updated web efforts – 3D Geomatics Page
- Advised Acquisition Workgroup in meetings

Awards Committee Accomplishments and Work Plan

Work Plan date: March 17, 2022

Co-Chairs: Len Kne
Phil Nagel

[Committee/workgroup Charter](#)

Accomplishments from 2021

- Reviewed one nomination packet for the Governor’s Commendation (did not recommend advancing for an award)

Work Plan for 2022

Planned activities and deliverables:

- On request, review nominations for commendation
- Revise nomination process to provide feedback to applicants before the final commendation packet submission
- Develop promotional materials and outreach to solicit nominations for 2022
- Develop promotional materials to feature at the annual GIS/LIS Fall conference

Roles and responsibilities:

Name	Role
David Brandt	Represent metro counties in discussions
Len Kne	Represent educational institutions in discussions
Andra Mathews	Represent State agencies in discussions
Phil Nagel	Represent private industry in discussions
Cory Richter	Schedule and conduct meetings. Ensure notes are taken. Update team site with notes, recommendations and any changes to plan document.
Ryan Stovern	Represent greater Minnesota counties in discussions

Resources:

- MNGeo resource pages for past recipients of the Governor's Commendation Award and nomination criteria

Committee/workgroup needs:

- Teleconference capabilities
- Representative from non-profit sector
- Representative not currently serving on the GAC
- Web-based committee collaboration workspace (SharePoint, Google Docs type software)

Dependencies and interrelationships:

- Communicating with MnGeo staff to receive current year nominations and to submit committee recommendations by the designated date in order to award the commendation at the annual GIS/LIS Fall conference.
- The committee will also work with the Outreach Committee to promote awareness of the award to encourage future nominations and to celebrate past recipients.

Risks:

Members of the committee may have to withdraw from discussion of applications due to direct involvement with the nominated project, or because they would benefit from the project receiving the award (i.e. being a member of an organization that was part of the project).

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

Awards Committee Status Report

Report date:

March 17, 2022

Prepared by:

Len Kne and Phil Nagel (committee co-chairs)

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

Meetings:

The Committee met on February 22, 2022 and decided to change the nomination submission process. Specifically, a draft nomination packet will need to be submitted by June 1, 2022 to allow the Committee to provide feedback for a strong submission; the intent is to get more nomination packets that meet the high standards of the Governor's Commendation.

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

2021 Annual Accomplishments Report

Planned Versus Actual

Report date: March 24, 2022

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

- Conduct at least three meetings of the full committee during 2021
 - Meetings held: 3/10, 6/16, 10/7, 12/15
 - Conduct at least four meetings of the leadership team (Chair, Co-chair, and Project Team chairs)
 - Meetings held: 1/20, 4/14, 6/18
 - Overall committee activities throughout year were negatively impacted by personal circumstances which required Chair Swazee to be out of Minnesota March through August
 - Continue efforts to cleanup committee's online presence and bring efficiency to its IT infrastructure
 - Effort active throughout year
 - Randy Knippel to serve as EPC liaison to the [Metropolitan Emergency Managers Association](#) (MEMA) by attending that association's monthly meetings
 - Effort active throughout year
-

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

Progress on work plan:

- Conduct at least three meetings of the Project Team during 2021
 - Committee meetings held: 3/16, 4/9, 5/21, 6/11, 7/16, 8/20, 9/17, 10/15, 12/2
- 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
 - 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: z.umn.edu/MNCI
- 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

Geospatial Assistance (GA) Project Team (Forming)
Brian Huberty, SharedGeo, bhuberty@sharedgeo.org, 651-706-6426

Progress on work plan:

- Conduct at least three meetings of the Project Team during 2021
 - February 10
- 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

Situational Awareness Sharing Initiative (SASI) Project Team (Forming)
Nicole Helgeson, SharedGeo, (651) 285-5015

Progress on work plan:

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

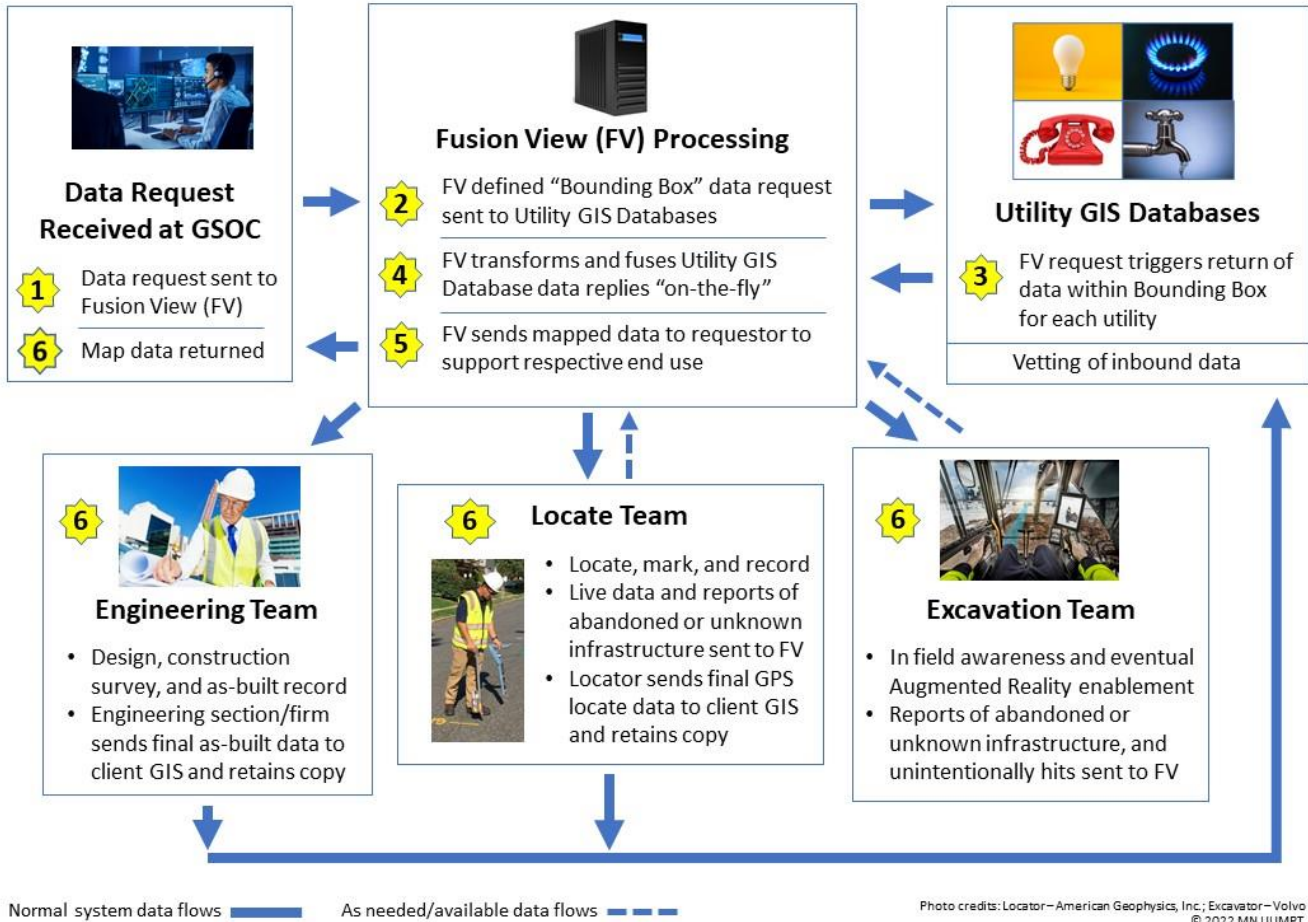
Underground Utilities Mapping (UUM) Project Team – GAC PRIORITY
Barbara Cederberg, CEO, Gopher State One Call (GSOC), barbara.cederberg@gopherstateonecall.org,
651-681-7303
Stephen Swazee, MGAC EPC, Chair, chair@mgacepc.org, 651-456-5411

Progress on work plan:

- Conduct at least eight monthly meetings of the Project Team during 2021
 - Leadership team meeting held: 1/20, 2/19, 3/18, 4/23, 5/21, 9/24, 10/22, 11/19, 12/10
 - Large group meetings held: 1/26, 2/25, 3/25, 4/29, 5/27, 9/30, 10/28, 12/16
 - Small group meetings held: At least 6 per small group
 - Special meetings held: Numerous CGA conference team meetings to plan presentation, as well as one-off technology focused discussions with vendors and similar
- Complete at least one “low hanging fruit” action item by each of the Project Team’s four sub-groups
 - Locate Team: Demoed locate live feed into Gopher State One Call GIS system

- Data Team: Prototype design completed

Minnesota UUMPT Blueprint for the Future – Version 4.2.1



- Outreach:
 - Project Team featured in a Damage Prevention-Pro article and MN Government e-bulletin: <https://dp-pro.com/minnesota-underground-utilities-mapping-project-team/>
 - Conducted outreach which resulted in formal positions of support from the MN Clean Water Council, Association of Minnesota Counties and MGAC
- Legal/Security: Developed working relationship with U.K.'s National Underground Asset Registry team to leverage their previous work
- Deliver at least one presentation about overall team efforts at an established community appropriate conference (or webinar)
 - October 13: Project Team presented at [2021 Common Ground Alliance Conference & Expo](#), Orlando, Florida
 - October 29: Damon Nelton and Bob Basques presented at MN GIS/LIS
 - November 18: Chair Cederberg presented to AWPA
- Publish at least one article about the Project Team in a publication of importance to the industry
 - See Outreach item above

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

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

Progress on work plan:

- Conduct at least quarterly meetings of the USNG Implementation Working Group during 2021
 - Meetings held: 1/27, 4/28
- Develop documentation for production of 10K maps
 - Effort active throughout year
- 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 refinement ongoing at year end: <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
 - February 15: Three-hour online workshop given at WLIAC by Randy Knippel and BJ Kohlstedt
 - February 18: 45-minute “Introduction to USNG” online presentation given at WLIAC by Randy Knippel
 - February 18: 45-minute “U.S. National Grid Emergency Location Markers, Reducing Response Times and Saving Lives” online presentation given at WLIAC by Steve Swazee
 - October 27-29: Randy Knippel presented at MN GIS/LIS Annual Conference twice; full presentation on “Introduction to the USNG” and a lightning round on the same topic

Emergency Preparedness Committee: Status Report

Report date: March 24, 2022

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: None this quarter
- Leadership Team: None this quarter

Progress on work plan:

- Conduct at least three meetings of the full committee during 2022
 - 1st meeting planned for early April
- Conduct at least four meetings of the leadership team (Chair, Co-chair, and Project Team chairs)
 - 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:

- EPC member, Matt Goodman, GIS Principal, St Louis County Sheriff 911 Department, is now serving as the Minnesota representative to the NSGIC Geospatial Preparedness Committee
 - Since inception in December 2020, MGAC EPC YouTube channel as had 2,300 views:
https://www.youtube.com/channel/UC3hwp5_9t3BkiTt-hyALArg/
-

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

Meetings:

- Full Committee Meetings 1/14/22, 2/25/22
- Resource Site Meetings: 2/4/22
- Law Enforcement dataset: 3/15/22

Progress on work plan:

- Conduct at least three meetings of the Project Team during 2022
 - Full Committee Meetings 1/14/22, 2/25/22
- Develop updated data model (prioritizing fire and police) based on the previous standards identified in Minnesota Structures Collaborative project
 - Developing new schema, Law Enforcement dataset meeting: 3/15/22

- Publish comprehensive statewide dataset of police to the Minnesota Geospatial Commons
 - In progress, Law Enforcement dataset meeting: 3/15/22
- Pursue a long-term workflow to keep fire, law enforcement updated annually
 - In progress
- Request validation for 9 counties U-Spatial has projects with and remaining metro counties
 - 7 new counties verified
- Maintain Esri online app for counties to validate their data (counties U-Spatial has other projects with, as a prototype for workflow)
 - In progress
- Develop workflow coordination with HSEM for fire, police, hospitals, schools.
 - In progress
- Continue to validate workflow with other partners
 - Stark meeting with COMM (3/16/22) Booz Allen Hamilton- HIFLD (2/16/22)
- Catalog available authoritative data sources
 - In progress, Resource Site Meetings: 2/4/22
- Publish “C.I. resource site” on either MnGeo website or GAC Hub
 - Finalizing this, Resource Site Meetings: 2/4/22
- Develop strategy for outreach /promotion of work (use of GAC Hub)
 - Submission for MEMA April newsletter
 - Participation in GAC Hub subcommittee

Additional comments: None

Geospatial Assistance (GA) Project Team (Forming)
 Brian Huberty, SharedGeo, bhuberty@sharedgeo.org, 651-706-6426

Meetings: None this quarter

Progress on work plan:

- Conduct at least three meetings of the Project Team during 2022
 - Anticipate first meeting in 2nd quarter
- Complete charter and work plan and receive approval from the EPC Leadership Team
 - No progress this quarter
- 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 this quarter

Additional comments: None

Situational Awareness Sharing Initiative (SASI) Project Team

Nicole Helgeson, SharedGeo, (651) 285-5015

Meetings: None this quarter

Progress on work plan/Additional Comments:

- It has been decided to suspend any effort to form this Project Team and instead continue to facilitate collaboration between topic interested parties and the Critical Infrastructure Assessment Project Team (CIAPT). Effectively, the CIAPT will work to determine the best overall data set for a layer, see to it that the data layer is made known on the Geospatial Commons, and then those interested in MNSAV will work to refine that overall data set for use by the Emergency Service Sector (ESS). That data set will then get posted and maintained on MNSAV.

Underground Utilities Mapping (UUM) Project Team – GAC PRIORITY

Barbara Cederberg, CEO, [Gopher State One Call](https://www.gopherstateonecall.org) (GSOC), barbara.cederberg@gopherstateonecall.org,
651-681-7303

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

Meetings:

- Leadership team: 1/21/22, 2/18/22, next 3/25/22
- Large Group: 1/27/22, 2/24/22, next 3/31/22

Progress on work plan:

- Conduct at least eight monthly meetings of the Project Team during 2022
 - Leadership team: 1/21/22, and 2/18/22
 - Large Group: 1/27/22 and 2/24/22
 - Fusion View Work Group: 1/28/22, 2/18/22, 2/25/22, 3/11/22, next 3/25/22
- Produce a “Way Forward” blueprint document
 - Background research and draft prep continues
- Complete development of a prototype system which can aggregate diverse utility geospatial data and make available for other project identified needs
 - Prototype data management system (Fusion View) Work Group is meeting twice a month, phase 1 prototype nearing completion – concept diagram attached
- Deliver at least one presentation about overall team efforts at an established community appropriate conference (or webinar)
 - February 10: Steve Swazee, national Geologic Mapping Forum as hosted by Director of the Minnesota Geological Survey, State Geologist of Minnesota, and Professor in the Department of Earth and Environmental Sciences at the University of Minnesota, Harvey Thorleifson (webinar)
 - February 24: Steve Swazee, Minnesota Society of Professional Surveyors 2022 Conference, Alexandria, MN (in person)
 - March 3: Travis Beran, Global Excavation Safety Conference, Phoenix, AZ (in person)

- March 22-25: Geoff Zeiss, chaired Subsurface Utility Mapping Strategy Forum (international virtual conference)
- 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.
- Continue efforts to develop project champions in the underground utility and regulatory communities
 - Statements of support:
 - December 1, 2021: Minnesota Geospatial Advisory Council
 - December 6, 2021: Association of Minnesota Counties (Environment & Natural Resources Policy Committee)
 - Outreach Plan: Through video conference with Inver Grove Heights Public Works Director, Brian Connolly, working a list of 10 Minnesota organizations where outreach should occur.

Additional comments:

- February 28: Select members of the UUMPT received brief from Geoscience Technical Adviser, National Underground Asset Registry, Geospatial Commission, Holger Kessler, concerning the U.K's effort which parallels the UUMPT. Call included several members of the United Kingdom's Cabinet Office. Teams anticipate further collaboration going forward.

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:

- USNG Implementation Work Group: 3/16/22

Progress on work plan:

- Conduct at least quarterly meetings of the USNG Implementation Working Group during 2022
 - 3/16/22
- Develop documentation for production of 10K maps
 - No progress this quarter
- As appropriate, publish or assist other government entities with publication of USNG maps for their areas of responsibility
 - No activity this quarter
- Refine, update, and publish Minnesota statewide 1K maps
 - No progress this quarter
- Work with SharedGeo to complete a new USNG mapbook publishing application on USNG Center (www.usngcenter.org)
 - Several meetings held this period to finalize development plan. Anticipate release before end of next quarter.
- Continue development of USNG training videos focused on USNG map production
 - This effort to be developed going forward in conjunction with other members of the national USNG Implementation Work Group
 - SharedGeo has reworked its WLIA virtual conference booth into a more generic booth featuring USNG information (www.sharedgeoboath.org)
- Conduct workshops and presentations where appropriate

- None this quarter

Additional comments:

- After nearly a year of discussions with the 9-person leadership team of the USNG Implementation Working Group, on March 7, Minnesota geospatial research and development nonprofit SharedGeo accepted the USNG Institute (USNGI) as a Fiscal Sponsorship project. This IRS designation will allow the USNGI to operate as a nonprofit without the associated need to file annually with the IRS. Both parties agree this approach will allow the USNGI to either emerge as a self-standing 501 (c) 3 or return to operations as a loosely affiliated group of individuals with an interest in promoting use of USNG. Members of the EPC have been integral to making this development happen.
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Parcels and Land Records Committee (PLRC)

Report date:

03/23/2022

Prepared by:

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

Meetings:

Whole PLRC - NA

Boundary Alignment subcommittee – January 11, March 22, 2022

Open Data subcommittee – January 20, March 3, 2022

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 the subcommittees as outlined below

Boundary Alignment Subcommittee

The boundary alignment subcommittee continues to work on boundary alignment issues. All activities support GAC “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 to MnGeo servers. It needs to be updated with some current data (see open data). Next step 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.

3) PLSS Point Standard

The Arrowhead Alignment project worked on a PLSS point data standard and asked the committee to review. We are in process of reviewing the standard.

4) County Boundary Mapping

We are discussing the issues that occur around mapping county boundaries, especially along rivers. This will be an ongoing discussion and we hope to come up with some guidance for people that experience issues with mapping features along rivers and lakes.

Open Data Subcommittee:

The PLRC Open Data Parcel Workgroup met twice (January 20, March 3) since the last GAC meeting. The activities of the Open Data Parcel Subcommittee focus on GAC priority 2 “Statewide publicly available parcel data.”

Since the last GAC meeting, an inaugural public parcel dataset “Parcels, Compiled from Open Data Counties, Minnesota” was published by MnGeo on the Geospatial Commons (<https://gisdata.mn.gov/dataset/plan-parcels-open>). The initial dataset included 29 counties that opted-in through a survey created and shared by this subcommittee’s County Outreach Team. A few of the counties contacted the subcommittee directly to be included.

The subcommittee will propose a new method for sharing opt-in counties with MnGeo at the 3/30 GAC meeting.

The Open Data Parcel Workgroup teams continued to work on their goals. Their work is described below. The subcommittee decided to sunset the PRISM working team because their initial work charge had been completed.

- Online Communication Team: Goal: Share open parcel data vision and status of data & set up the hub site
 - The team is still planning on creation of a StoryMap to explain the business need for statewide aggregated parcel data, and the team is currently working on stories to include.
- Operational Team: Goal: products to describe parcel data
 - Metadata & Commons resource for Open Data Parcel version of the aggregated dataset were prepared and published
- County Outreach Team: Goal: Publish aggregated parcel dataset of all open data counties.
 - County team continued to reach out to neighboring counties to speak about open data
 - Two surveys were sent out: One was to counties that were included in the opt-in published parcel data and one was sent to those that weren’t included. The goal of the surveys was to see if any should be added to the public parcel dataset.
- PRISM Exploration: Goal: Evaluate PRISM data for use with parcel boundaries
 - The work done in 2021 – a comprehensive spreadsheet was created that compares PRISM data with GAC-standard fields was considered complete, and the workgroup was sunset for now. It can be re-started if needed later.

The Remonumentation Subcommittee:

The Remonumentation Subcommittee has met weekly in the past 3 months.

The activities of the Remonumentation Subcommittee support GAC priority 13 “Remonumentation of all section corners in the state”.

The subcommittee developed a hub initiative site: <https://mnplass-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.

We have introduced a bill, authored by Senator Johnson Stewart as SF 4037, Senator Bakk is also a co-author

<https://www.revisor.mn.gov/bills/bill.php?b=senate&ssn=0&y=2021&f=sf4037>

Companion bill in the House was Authored by Representative Anderson as HF 4456

<https://www.revisor.mn.gov/bills/bill.php?f=HF4456&y=2022&ssn=0&b=house>

Both referred to State Government Finance and Policy and Elections Committees.

Grant program managed by MnIT and the GAC. Requires remonumentation of the PLSS according to statute 381.12. Grant criteria must favor counties that demonstrate financial need.

We are asking for \$10,000,000 per year for 34 years in dedicated funding to the remonumentation grant program and \$1,000,000 per year for 34 years is dedicated for hiring of technical staff to help implement the program.

March 25: Committees to act favorably on bills in the house of origin.

April 1: Committees to act favorably on bills, or companions of bills, that met the first deadline in the other house.

Alternative commission being considered. Unlikely to pass this year due to late introduction, but it is still possible to be brought into an omnibus bill.

Contact your local Senators and Representatives.

Legislators respond more favorably to local constituents.

The Meet Me at the Corner event was canceled last year. We are planning to have a Meet Me at the Corner in Spicer on May 4th. Here is a link to the registration page:

<https://www.mngislis.org/events/EventDetails.aspx?id=1617429>

Additional comments:

A lot of time and effort has been spent on the remonumentation legislation. We hope the bill passes into law, but if not, we will attempt to introduce it again next year.

Standards Committee Accomplishments and Work Plan

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:

- Updating standards workflow to more deliberately announce/promote newly approved standards
- Review draft Emergency Service Zone Data Standard for adoption by the GAC
- Review Stormwater Data Standard for adoption or endorsement by the GAC
- 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

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

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:

Standards Committee Status Report

Report date:

March 14, 2022

Prepared by:

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

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

Meetings in 2022:

1/19/22 Stream ID standard subgroup

2/8/22 Standards Committee

2/14/22 Emergency Service Zone standard subgroup

2/22/22 Stream ID standard subgroup

Full committee [Meeting minutes available here](#)

Progress on work plan:

- Updating standards workflow to more deliberately announce/promote newly approved standards
- Review draft Emergency Service Zone Data Standard for adoption by the GAC
 - Initial draft of standard was presented to committee 2/8/22
 - SME subgroup reviewed comments from Standards Committee and made revisions 2/14/22. Revised draft submitted back to Standards Committee
- Review Stormwater Data Standard for adoption or endorsement by the GAC
 - MetroGIS Stormwater standard presented to Standards Committee 2/8/22
- 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
 - SME group reviewed and modified standard at meetings on 1/19 and 2/22. Revised standard to be submitted to Standards Committee
 - Codes for Identifying Watersheds
 - Codes for Identifying Lakes and Wetland Basins
- Facilitate the creation of usage guides for key GAC standards

Minnesota Geospatial Advisory Council - Archiving Pilot Workgroup Final Report

Introduction

This report covers the exploratory work carried out by the Minnesota Geospatial Advisory Council's Archiving Pilot Workgroup, active from June 2021 to January 2022. This workgroup was formed to evaluate and test a range of potential archive technologies, create a proof of concept with sample sets of data, and continue to perform community outreach in order to build on the work of the [Archiving Implementation Workgroup and the Archiving Workgroup](#).

Summary

The Archiving Pilot Workgroup was organized into two subgroups: one to focus on performing outreach and education and another to pilot software applications. The Outreach Subgroup gathered user stories and created educational materials. The Pilot Subgroup tested four software applications that could serve as discovery platforms for items in a geospatial archive (CKAN, DSpace, GeoBlacklight, and Preservica). While this report includes many details about each platform's functionality, workflows, and usability, it does not go as far as recommending one software application over another. All of the tools that were tested would be suitable for a geospatial archive. Therefore, the ultimate choice will come down to which entity hosts the archive, available expertise, and how much staff time can be dedicated to it. We hope that the information provided in this report helps to advance the conversation about how and where an archive can be hosted.

Next Steps

Although this pilot focused on testing data pulled from the Minnesota Geospatial Commons ("Commons"), we are aware that aerial imagery is one of the highest priority types of data requested for the archive. As a next step, we propose to convene another short-term workgroup to pilot the archiving of imagery. This would be helpful to determine any major differences in archiving imagery data, such as space considerations due to the size of the files. The next workgroup would also continue to compile stories and use cases for the archive.

Workgroup Members

Outreach Subgroup

- Andra Mathews - Minnesota Department of Transportation
- Ryan Mattke - University of Minnesota Libraries (Subgroup Lead)
- Nancy Rader - MNIT / MnGeo

Pilot Subgroup

- Sarah Barsness - Minnesota State Archives
- Melinda Kernik - University of Minnesota Libraries
- Carol Kussmann - University of Minnesota Libraries
- Karen Majewicz - University of Minnesota Libraries (Subgroup Lead)
- Zeb Thomas - MNIT / Minnesota Department of Natural Resources

Resource People (consulted as needed)

- Jon Hoekenga - Met Council
- Randy Knippel - Dakota County
- Brent Lund - MNIT / MnGeo
- Jesse Reinhardt - Hennepin County
- Cory Richter - City of Blaine

[LINK TO FULL REPORT](#)