Minnesota Geospatial Advisory Council Meeting

September 9, 2020

Webex. See meeting invite for details.

11:00 a.m. – 2:00 p.m.

Agenda

1. Call to order (Chair)   11:00   10 min
   a. Introductions
   b. Approval of agenda
   c. Approval of meeting minutes from 5/27/20

2. Review and accept committee summaries (All) – *page 2*   11:10   5 min

3. Approve Damage Assessment Standard & Standards Update (Kotz/Richter) – *page 17*   11:15   15 min

4. Remonumentation update (Veraguth)   11:30   5 min

5. One Minnesota update (Huset) – *page 18*   11:35   10 min

6. Underground Utilities Tiger Team update (Swazee) – *page 19*   11:45   10 min

7. GIS/LIS Consortium new ad-hoc committees   11:55   10 min
   Professional Development Committee (King-Scribbins, Sisko) – *page 22*
   Equity Advocates Committee (Richter)

8. 10-Minute Break   12:05   10 min

9. Outreach Committee Chair (Geurts)   12:15   10 min

10. Geospatial Commons Advisory Committee (Kotz) – *page 27*   12:25   10 min

11. NSGIC conference and GAC participation (Ross)   12:35   10 min

12. Sector reports (Thurnau, Veraguth)   12:45   20 min

13. 10-Minute Break   1:05   10 min

14. Update on GAC priority projects and initiatives (Richter et. al.) – *page 28*   1:15   20 min

15. Legislative updates   1:35   10 min

16. Announcements or other business   1:45   15 min

17. Adjourn   2:00

Agenda Item 2. Review and Approval of Committee & Workgroup Summaries

3D Geomatics Committee Steering Committee

Report date: 09/01/2020

Prepared by: Steering Committee Co-Chairs: Sean Vaughn, Gerry Sjerven

Meetings:
- Steering committee
  - 1/21/2020, 2/18/2020, 4/21/2020, 5/19/2020, 7/21/2020, 8/18/2020
- Data Acquisition Workgroup
- Infrastructure Workgroup
- Vegetation Workgroup
- Education Workgroup
- Hydrogeomorphology Workgroup

Progress on work plan & Next Steps:
- Committee and Workgroups are on track for meeting objectives for the year.
- Minutes & Agendas have been uploaded to the website
- Working with Workgroups to update Website design and content and expand membership
- **Data Acquisition Workgroup**
  - Team continued with significant amount of outreach, meetings, emails and communications with stakeholder and partners from State agencies, Counties, Non-Profits, private companies and other partners.
  - Team met weekly to plan for lidar data acquisition and outreach about the Minnesota Lidar Plan
  - Team representative attended monthly National States Geographic Information Council (NSGIC) 3DEP Group Meetings
  - Team outlined contents for lidar Communications Plan that will be created.
  - The planned lidar acquisition planned for Spring 2021 in Rainy Lake Lidar Acquisition Block was extended into the Lake Superior Block with guidance and input from the data acquisition workgroup team, and with generous additional funding from both USGS and NRCS. ($870,000).
  - The 2021 Rainy Lake Lidar Acquisition Statement of Work (SOW) was reviewed by team and feedback was provided to USGS.
  - Team learned that the LCCMR proposal was not moving forward for funding.
  - Team continued work on vision and workplan document creation
  - Lake County Lidar Data Package was submitted and accepted by USGS for the 3DEP
  - Team worked on for Minnesota content for USGS 3DEP factsheet & 3D Nation narrative
  - Minnesota state lidar collection areas were added to Sea Sketch (USGS collaboration tool) on behalf of Minnesota & 3D Geo Committee
  - Team members met with other states to discuss how they are managing lidar funding and the sources of funds. Team met with North Carolina, Oregon, South Carolina, Utah, Kentucky

- o On July 9, 2020, team hosted outreach/update online meeting with Northeast Minnesota geospatial and local partners meeting to NE partners. Meeting had over 80 participants
  - o On August 21, 3D Geo team hosted outreach/update online meeting with Southern Minnesota geospatial and local partners to discuss possible USGS grant submission for lidar acquisition in 2021. Meeting had over 100 participants.
  - o Team prepared surveys and sent them to attendees and potential partners in both Northeast and Southern Minnesota meeting to gauge interest in a USGS grant submission (submission date is October 2020)
- **Infrastructure Workgroup**
  - o Created draft agenda for initial meeting
  - o Next meeting is scheduled for week of September 21
- **Vegetation Workgroup**
  - o Vegetation Workgroup continues to meet on the second Tuesday, every other month.
  - o Next meeting scheduled for September 1, 2020
  - o Continue to work on the workplan.

3D Geomatics Committee: Education Workgroup

Report date: 8/18/2020

Prepared by: Joel Nelson

Meetings:
- Monthly workgroup meetings held. Seven meetings have been held sin 2020

Progress on work plan:
- Completed Mission Statement
- Added to workgroup SharePoint site
  - o Updated membership – now at 14 members
  - o Updated workplan
- Updated 3D Geo Education Workgroup web-page through MNIT and Nancy Rader
  - o Workplan listed
  - o LiDAR Education Resource links listed
- Inventory existing educational resources (In-Progress) - Research what other nearby states are doing for 3D Geomatics education and training i. Jason Menard lead ii. Document creation
- Workplan Updated from previous draft:
  - o Develop Comprehensive Lidar education strategy for MN
    - ▪ Audience Identification – differing skill levels
      - Managers
      - Basics
      - Advanced
    - ▪ Disciplines
      - Basics

- Point cloud/Advanced
- Hydrology – Hydro Modification (potentially break off into individual)
- Engineering
- Forestry
- Wetlands
- Soils and Landscapes
- Photogrammetry/UAV
- Precision Ag
- Transportation
- Utilities
- Geomorphology/Geology
- LiDAR for the Classroom – 6-12
        - Curricular objectives
        - Discuss a survey for educational needs
    - Identify 3DGEO Education Agency Liaisons (Nearing Completion)
    - Provide advisement and support for 3D Geomatics educational opportunities throughout the state
    - Explore the idea of a 3D Geomatics Training Opportunities website – Working ideas:
        - Standalone website
        - MN GIS/LIS website
        - U-Spatial
        - Combination

Additional comments:
- A great deal of this group's time was spent on developing an LCCMR Lidar education proposal (roughly 3 meetings worth) – while the funding was not secured, it helped expedite the process of developing disciplines and topical areas of interest for training later

3D Geomatics Committee: Hydrogeomorphology Workgroup

Report date: 8/28/2020

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

Meetings:
- Monthly workgroup meetings continued, omitting meetings in April and July.
    - See workgroup web page for detail on meeting dates, topics, and notes.
    - After member inquiries for alternate meeting times, members were polled and meeting time was shifted by one hour to avoid conflicts and improve attendance.
- DEM Hydro-modification subgroup continued to meet monthly in 2020. See subgroup web page for details on meeting dates and notes.
- Foundational Hydrography Data Stewards continues to meet quarterly.

Progress on work plan:

- Revisited workgroup [fact sheet](#), updates are planned to better represent the group and to maintain its relevance. Discussion has occurred, but edits have not yet begun.
- DEM Hydro-modification and Foundational Hydrography Data Stewards subgroups continue to meet regularly
- The subgroups continue to draw in other members that are not directly tied to the workgroup. These other members are integral to the subgroup and workgroups mission to collaborate amongst hydrography related entities.
- DEM Hydro-modification Subgroup (formerly Digital Dam Breachline Subgroup)
    - Changed name of group from Digital Dam Breachline subgroup to DEM Hydro-modification Subgroup to better reflect the mission and the future goals of the group.
    - Reviewed preliminary manuscript by Srinivas Rallapalli, Matt Drewitz, and Joe Magner titled "Assessing the impact of hydro-conditioned digital elevation modeling on hydrologic connectivity and conservation practice placement in a watershed" at our August 2020 meeting.
    - Discussed standard terminology on how we reference hydro-modified Digital Elevation Models (DEMs) and how we categorize previous hydro-modification work that was not completed by any group member.
- Continued to maintain workgroup SharePoint site for members and coordinated updates to public facing web site to MnGeo
- Work plan progress is slower than previous years due to COVID-19 related reductions in member availability.
- Work plan is still feasible for 2020 but workgroup will evaluate to see if any changes are necessary.

Archiving Implementation Workgroup

Report date:
Wednesday, August 26, 2020

Prepared by:
Ryan Mattke, Workgroup Chair, matt0089@umn.edu

Meetings:
The workgroup met on May 15, June 19, July 17, and August 21.

Meeting minutes are available here: http://www.mngeo.state.mn.us/workgroup/archiving/

Workgroup will continue to meet monthly.

Progress on work plan:
- Outreach
    - Sent out one communication, plus communications in the works for September, October, November
- Funding
    - Met with Dan Ross; met with Mark Kotz
    - Devising a plan for a funding ask
- Pilot Project
    - Will be experimenting with MN Geospatial Commons data
- Program Design
    - Leaning toward a program focused on the MN Geospatial Commons; recommending an opt-out program
    - Working on governance options
- Technology Plan
    - Working with Pilot and Program group to make recommendations

Additional comments:

- Original plan was to wrap up in October 2020 and devise a legislative ask for the next session
- Given delays related to the pandemic (and budget issues related to the pandemic), the plan is now to wrap up and submit reports by December 2020, noting that the ask may need to be delayed

Awards Committee

Report date:
September 9, 2020

Prepared by:
Cory Richter (committee member)
crichter@blainemn.gov

Meetings:
5/20/2020
7/8/2020

Progress on work plan:
1. Reviewed one nomination for the Governor's Geospatial Commendation. The committee determined that the nomination was not complete enough to recommend the Governor's Award this year and gave feedback to applicants encouraging a nomination next year.

2. Discussed a desire to look at other awards and ways of recognizing great work in the geospatial community.

3. Email discussion 08/2020 of the Awards Committee also providing recommendations for NSGIC award categories

Additional comments:
Next meeting TBD

Emergency Preparedness Committee

Report date: August 31, 2020

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: June 18, 2nd CY Quarterly Meeting: Cancelled due to COVID-19 concerns
- Leadership Team:
    - August 11: Review of EPC developments, upcoming efforts and IT changes
    - August 31: Continued review of EPC developments, upcoming efforts and IT changes

Progress on work plan:
- Conduct at least 3 meetings of the full committee:
    - 1st meeting will be on September 24 using Google Meet
- Conduct at least one meeting of the leadership team (Chair, Co-chair, and Project Team chairs):
    - Four meetings so far this CY and moving toward a monthly model
- 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:
- Rework of the EPC back office IT infrastructure reached Initial Operating Capability during quarter.
- Emergency/disaster response data map for Minnesota public released on August 19 - see https://www.mnsav.org.
- Database of GIS personnel willing to volunteer their services during disasters has grown from zero to 17 during quarter.
- Substantial and significant activity during quarter to bring online the Underground Utilities Mapping Project Team now numbering 31 – see dedicated section below.

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

Meetings: No formal meetings, coordination activities only this period

Progress on work plan:
- Hold meeting for interested collaborators:
    - No meetings except as noted above
- Create ArcGIS online map for counties to validate their data:
    - Underway

- Present at Association of MN Emergency Managers, September 2020:
  - Accepted, but event canceled due to COVID-19
- Publish comprehensive statewide dataset of fire and police to Minnesota Geospatial Commons:
  - Developmental efforts underway

Additional comments:
- A presentation to the URISA GIS-Pro Conference Sept 27-Oct 1 may be presented virtually. The presentation is titled "Challenges Acquiring Accurate Critical Infrastructure Data & Ideas Moving Forward" and pending the final agenda, will be presented by Zach Vavra, U-Spatial, UMN.
- Our proposed next steps are:
  - Follow up with HSEM team about their plans for CI data stewardship.
  - Integrate data from county updates we have from HMPs and from a one-time request to county GIS coordinators.
  - Continue to receive feedback from counties and update the CI application if applicable.
  - Host full CI workgroup meeting and report back to EPC.
  - Finalize a version of CI updates to share with EPC team for other applications.
  - Publish fire and police to Mn GeoCommons as U-Spatial (timeline - Dec 2020). This will likely change after conversations with HSEM.
  - Continue to look for funding to support this work.

Damage Assessment Data Standard (DADS) Project Team – *GAC PRIORITY*
Cory Richter, GIS Coordinator, City of Blaine, crichter@ci.blaine.mn.us, 763-717-2639
Brad Anderson, GIS Manager, City of Moorhead, brad.anderson@ci.moorhead.mn.us, 218-299-5125

Meetings: No formal meetings, coordination activities only this period

Progress on work plan:
- Submit draft data standard version 0.3 to GAC Standards Committee for formal community review:
  - Draft submitted and approved by Standards Committee for formal 90-day public review,
  - Website supporting public review completed,
  - Announcement of 90-day review period sent to greater Minnesota GIS community through the MN GIS/LIS Consortium E-announcement of May 20, and
  - Public review period ended August 19.

Additional comments:
- September 2 MGAC Standards Committee meeting
  - MGAC Standards Committee meeting to discuss comments received during the public review period. Brad and Cory will attend to defend and proceed with next steps determined at the meeting.

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

Meetings: No formal meetings, coordination activities only this period

Progress on work plan: Charter and Work Plan will be developed this coming quarter.

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 will be used as the starting point.

Situational Awareness Sharing Initiative (SASI) Project Team (Forming)
Nicole Helgeson, City of St. Paul, nicole.helgeson@ci.stpaul.mn.us, (651) 266-6565

Meetings: No formal meetings, coordination activities only this period

Progress on work plan: Charter and Work Plan will be developed this coming quarter based on previous efforts in early 2017.

Additional comments: This Project Team will take ownership and maintenance of the recently donated Minnesota Situational Awareness Viewer (MNSAV – see: https://www.mnsav.org). It's anticipated that EPC data developmental projects will be eventually hosted on 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:
- August 6, 2020: First organizational meeting of full group, 27 attendees, hosted on Google Meet

Progress on work plan:
- Draft Charter and Work Plan are complete and awaiting outcoming of four small group meetings which will determine Project Team Leadership

Additional comments:
- Primary outcome of the first meeting was establishment of four small group teams with the following focuses:
    - Facility Operator Utility Mapping - Travis Beran (travis@subsurfacesolutions.com)
    - Locate Data Flows & Mgt. - Bob Basques (bob.basques@ci.stpaul.mn.us)
    - Outreach - Karin Strub (Karin@emailir.com)
    - Regulations/Security – Dean Parker (dparker@hinshawlaw.com)
- Next steps:
    - September 11 - First formal leadership team meeting
    - September 17 - 2nd large group meeting
- Formation documents – all documents developed to craft Project Team formation are available for public review in the *Public Items Folder* of the *Project Information Folders* section on the UUM Project Team webpage: https://sites.google.com/site/mgacepcnet/undgrd-utilities-mapping

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:
- July 22: National event - USNG Implementation Work Group online meeting

Progress on work plan:
- Create/update USNG statewide maps:
  - Complete - Dakota County will host the new 10K USNG maps, until a better solution is developed
- Work with the nationwide USNG Implementation Working Group (USNGIWG) to expand Minnesota efforts into a national effort:
  - Project Team members actively participate in USNGIWG efforts, most recently during July 22nd meeting noted above and through ongoing assigned USNGIWG activities.
  - Next USNGIWG meeting to be held October 28: https://sites.google.com/a/sharedgeo.org/usng-iwg/next-meeting-info
- Engage in training opportunities and presentations as they arise:
  - No activity this period
- Work with Minnesota 501(c)3 geospatial research nonprofit SharedGeo to:
  - Develop a mechanism to allow any USNG maps and map books to be added to the USNGcenter.org map interface:
    - No progress this period
  - Deploy and document dynamic magnetic declination diagram north arrow for use with USNG map production:
    - No progress this period
  - Actively pursue opportunities to facilitate implementation in state and local governments across the nation:
    - Creation of maps and map books – No progress this period
    - Develop mechanism and capacity to allow students to provide USNG maps and mapbooks – No progress this period
    - USNG Emergency Location Marker (ELM) program – Webinar by Team Spatial in Georgia planned for September 10, at 1 pm CT: https://zoom.us/meeting/register/tJUocOGupzgpHtKzfK0eOwbNsA0iGVfZb4U4

Additional comments: Engaged in outreach with Washington Post reporters Dan Morse and Justin Moyer about their article describing a DC metro drowning where responders were greatly delayed because of the inability to effectively and efficiently geolocate incident. See: https://drive.google.com/file/d/1veter_hG4Y79c3NJkpbWYLLkIAxdOzaR/view?usp=sharing

Image Service Sustainability

Report date: 8/27/2020

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:
We are waiting on a couple of major imagery sets delivery including NAIP 2019 and 7-county 2020.

Additional comments:
Waiting for new imagery for next meeting

Outreach Committee

Report date: August 28, 2020

Prepared by: Nick Meyers, GISP (nmeyers@esri.com)

Meetings:

- **8/14/2020** – Kari informed the Committee that she must step down from the Committee
  - Committee Discussed goals
    - GAC One MN workgroup
    - Update website content
    - Collaboration with GIS/LIS to post shared content and success stories on Hub Site.

- **2/12/2020** - During this time Kari and Nick have had several discussions on collaborative efforts with the GIS/LIS Consortium and LMC (League of MN Cities).

  - GIS/LIS: We are discussing the potential of working with the GIS/LIS consortium to share all the GAC committees content using something like Google Suite or ArcGIS Hub. The full Outreach committee will discuss at future meetings.
  - LMC: We have worked with LMC and they will be writing an Open Data article in their spring newsletter. This will include interviews with many Cities and Counties around the state that we have received commitments to be part of this article. The article will also include information about COVID-19 and the importance of GIS in response to the pandemic.

Progress on work plan:
  - *Activities: The committee will be meeting on a regular basis.*
    - Committee will be collecting success stories to promote the value of open data.
    - Committee members will be working with other GAC committee members to determine what outreach activities they want to pursue and how to coordinate across the committees to reach the appropriate GIS audiences.
    - Committee discussed the need for "branding" to be created to help make sure the look, feel, and message is consistent across all subcommittees.
    - Working with GIS/LIS Consortium on shared content for Hub Site.
  - *Accomplishments:*
    - Committee reviewed and approved 2020 work plan.
    - Kari wrote a response to the request from the GAC One Minnesota Plan Response Working Group.
    - Discussed a joint effort with GIS/LIS consortium to share all GAC communication.
    - LMC article published spring 2020 on value of open data and online engagement.
    - Nick presented to the GIS/LIS Board on Feb 28th to discuss a shared engagement strategy between GAC and GIS/LIS. The GIS/LIS Board was excited for the idea and willing to provide some support in making this successful.
  - *Progress toward achieving proposed goals:*
    - Identified writing local success stories with Open Data from Moorhead, Blaine, Minneapolis, Rice County, Dakota County, Bemidji and a few small cities.
    - Plan to work with Cory to provide updates on committee progress

- - - Work on Branding Guidelines in 2020 for outreach in conjunction with MnGeo and YouTube channel
  - *Problems or impediments:*
    - - Need to work through the logistics with GAC and GIS/LIS consortium to find a way to share/distribute all communication.
  - *Required assistance:* None

Additional comments:
None

Parcels and Land Records Committee

Report date:
08/17/2020

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

Meetings:
None

Progress on work plan:
Members of the PLRC met with the Arrowhead GIS Collaborative and discussed standard data schema for PLSS corners for the arrowhead. MnGEO is moving forward with a schema and ETL process to harvest data from collaborative members.

Additional comments:

Standards Committee

Report date:
August 28, 2020

Prepared by:
Mark Kotz, Chair (mark.kotz@metc.state.mn.us)
Curt Carlson, Vice Chair (curtis.carlson@state.mn.us)

Meetings in 2020:
January 10 – standards logistics subgroup
April 1
May 18
June 16
July 22
September 2

[Meeting minutes available here](#)

Progress on work plan:

- Compare existing GAC standards to NENA standards and make appropriate adjustments to ensure usefulness for NextGen 9-1-1
  - Review and modifications to Address Standards proposes
  - Discussed at multiple Committee meetings with some changes approved by the committee and made available for a 60-day public review to end October 12.
- Work with stakeholder groups to modify remaining original GCGI standards to the GAC format and have adopted by the GAC. This will involve review and possibly changes to these standards.
  - No progress
- Work with EPC representatives toward approval of a damage assessment data standard
  - Draft approved by Standards Committee for public review through August 19.
  - Committee reviewing comments and suggested changes at September 2 meeting.
- Continue work on streamlining the logistics for developing and maintaining standards
  - Postponed until fall due to staff availability due to pandemic response
- Facilitate the creation of usage guides for key GAC standards
  - No progress
- If ready in 2020, work with stakeholders on a stormwater data standard
  - MetroGIS is working on this for a preliminary review. No formal work by the GAC Standards Committee.
- If ready in 2020, work with stakeholders on a parks and trails data standard
  - Working with stakeholder group to finish a draft to submit to the committee
  - Committee reviewed the standard and made changes at July and September meetings.

Agenda Item 3. Approval of Damage Assessment Data Standard & Standards Update

Damage Assessment Data Standard

The purpose of this standard is to provide a single, commonly accepted set of attribute specifications for collection of damage assessment information to help guide local government entities in data collection that is required to support a request for State or Federal assistance in the event of a disaster.

This standard was proposed by the Damage Assessment Data Standard Project Team of the Emergency Preparedness Committee, lead by Brand Anderson and Cory Richter.

The standard has been fine-tuned and improved with the benefit of an initial key stakeholder review and a formal Standards Committee public review ending August 19.

The modified draft was approved by the Standards Committee on 9/2/2020. The Standards Committee requests approval by the GAC.

Standards Update

Address Point Data Standard and Road Centerline Data Standard
- Both standards were reviewed for compatibility with NG9-1-1 standards and processes, and some minor modifications of each were approved by the Standards Committee
- Modifications changed the schema, triggering a public review of the standards ending October 12.

Trails and Bikeways Data Standard
- On 9/2/2020 the Standards Committee approved a draft Trails and Bikeways Data Standard for a 90 day public review period.

Revised "One Minnesota Plan" response
Draft interview questions

1. **Introductory info:**
   - Biographical basics: Name, industry, employer, role within organization
   - What is GIS? What is your elevator pitch to describe it to your non-GIS colleagues?

2. **Project info:**
   - Please give us an overview of your project.
     o e.g.: Research question(s), end goal, results (if applicable)
   - What impact will a project like yours have on the residents of Minnesota?
   - What obstacles did you have to overcome to make this project successful?
     o e.g., Did it require funding? Was funding difficult to acquire? Organizational support? Staffing? Choosing the proper platform?
   - Were there any surprises along the way? Did you learn anything you didn't expect to learn?
   - Where do you see this project going next?
     o e.g., Natural next steps, related projects that came from it, shined a light on an issue that now has support for further research, etc.

3. **How it relates to One Minnesota:**
   - The "One Minnesota" categories as defined by the Governor's office are:
     1. Equity & Inclusion
     2. Minnesota's Environment
     3. Children & Families
     4. Thriving Communities
     5. Fiscal Accountability & Measurable Results

   Do any of those categories apply to your work?
     o (if needed) How would you say your project fits into this/those category(s)?

   - How have recent events (e.g., civil unrest, racial justice, equity, COVID-19, budget cuts, layoffs, etc.) impacted to your project?
   - Have recent events changed how you utilize geospatial technologies or adjusted your research priorities?
   - What's your next geospatial project? What are you working on now?

4. **If interviewee is not a GIS professional, try these:**
   - How did mapping/other relevant geospatial tool come to your/your organization's attention?
   - Were you aware of geospatial data and technology before this project?
     o If yes, did you have to get others on board or up to speed with how geospatial data and technology would be part of this project?
     o If no, tell us who introduced these concepts to you and what your reactions were when you saw the processes and results.
   - How have geospatial technologies shaped your work and decision making?
   - If you could tell someone who does not know about geospatial data and technology, what would you tell them?

Agenda Item 6. Underground Utilities Tiger Team update

Underground Utilities Mapping Project Team Meeting Hot Wash Report
August 17, 2020

Last Meeting Notes
1. Date: August 13, 2020
2. Time: 1:02-2:51 pm
3. Attendees: See Enclosure (1), individuals with group assignments
4. Key discussion points:
    a. "What are the Issues" slide items:
        i. Facility Operator Utility Mapping – Locating, GIS data, Mapping
            1. Are recent advancements in geospatial technology being leveraged?
            2. What are the standards for capturing, storing or sharing locate data?
            3. Loss of corporate locate knowledge through retirements.
        ii. Locate Data Flows & Mgt. – GIS data flow to locators & excavators
            1. Underground utilities location information for emergency responders?
            2. Data sharing between owners, locators and excavators before digging?
        iii. Outreach – Publicize capability and safety impact
            1. How, when, and to whom do we "report"?
            2. What additional resources should be recruited?
        iv. Regulations/Security – Use and availability of GIS data
            1. Are there legal restrictions on sharing information?
            2. What are the corporate hurdles on sharing info with others?
    b. Project Team discussion about "What are the Issues" – additional thoughts
        i. How can we create transparency on underground utility data but at the same time keep that information secure?
        ii. How do we create an interface where data is portable/easy to move and view?
        iii. Standards – critical when dealing with the loss of legacy knowledge. What industry standards currently exist?
        iv. Education – what should this piece look like?
        v. Certification? A DP Professional?
        vi. Do we need to pay higher to keep quality individuals in the field?
        vii. What best practices/regulations are out there right now?
        viii. To bring focus to the overall effort, maybe focusing on use cases would do a better job of channeling efforts?
        ix. Skill level of individuals inputting data – garbage in, garbage out. Is this a people only issue, or is it a people and technology issue?
        x. How is the industry recruiting?
        xi. 3D mapping requires high quality data. Are we making the effort to collect at this level?
        xii. How do we bring forward legacy data to address the need for quality going forward?
        xiii. What types of standards exist for sharing data, and what should they look like for this industry?
        xiv. Devices/hardware – are some units better for enabling

5. Reference items:
    a. Online PPT:
       https://onedrive.live.com/view.aspx?resid=5C502A75D444F90F!112&ithint=file%2cpptx&authkey=!AunW_oqP0vwJyo8
    1. Slides:
       https://drive.google.com/file/d/1Nhmg3rovFTaP2F_meTGAsyzwbQqMbiin/view?usp=sharing
    2. Meeting recording (starting after introductions): https://drive.google.com/file/d/16I6X5gicXa-nr607rG0A8oiXOnt3mMLP/view?usp=sharing
    3. Project Team open folder:
       https://drive.google.com/drive/folders/1I1QlbWSAmnwvvNSjIfHQy9p9AXKJ4QqQ?usp=sharing

Schedule Going Forward
1. August 18-September 10: Group meetings as scheduled by:
    a. Facility Operator Utility Mapping - Travis Beran (travis@subsurfacesolutions.com)
    b. Locate Data Flows & Mgt. - Bob Basques (bob.basques@ci.stpaul.mn.us)
    c. Outreach - Karin Strub (Karin@emailir.com)
    d. Regulations/Security – Dean Parker (dparker@hinshawlaw.com)
    e. Notes:
        i. If you want to sit in on another meeting other than the group you have been initially assigned to, send a note to the group leader.
        ii. Barb and Steve would like to sit in on the sub-group meetings if possible. Please info copy them when you settle on a meeting date.
2. Friday, September 11th, 10:00 am – 1st Leadership Team meeting
3. Thursday, September 17, 1:00 pm - Next Project Team meeting date

Small Group Meeting Expectations
1. Conduct
    a. Respectful of one another's ideas and comments
    b. Open to exploring other business practices and technology approaches
2. Outcomes from meeting
    a. Who will attend the Leadership Team meeting of September 11th? (Send note to Steve)
    b. Who will be your Spokesperson and alternate for the September 17th meeting? Be prepared to lead the PT in a discussion about your deliberations – 15 minute limit
3. Suggested topics to explore when meeting
    a. Review of the "What are the Issues" notes above. Does your group believe there are additional items which need to be explored?
    b. Group focus – if you had to use one word, or a short sentence to describe what your group should be focused on, what is it? For example, should the Facility Operator Utility Mapping group own "accuracy" and the Locate Data Flows & Mgt. group own "sharing"?
    c. Given item b. above, which issues belong to your group to investigate?
    d. Are there other individuals or agencies who your group would like to have participate and/or that you believe the outcome of your efforts should target?
    e. We are committed to keeping this effort from becoming a way for one vendor or another from taking over the process and steering it for their own benefit. However, the vendor world

potentially has much to contribute to this process. What do you think about having a vendor technology showcase, say 15-20 minutes long, during the large group meetings?

      f.   What assistance/input from other subgroups or the larger group do you need now or anticipate in the future?

4. Do not worry about submitting any documents from your group meeting, this will be discussed further during the September 17th meeting. If you want to submit slides for the September meeting, send them to Steve by end of business on September 14th.

Homework for All Before Next Large Group Meeting

1. Establish your user account at https://sites.google.com/site/mgacepcnet/login (Login page of https://mgacepc.net – there is now a dedicated link for UUMPT sign up)
2. Read the "File Guidance" page of MGAC EPC Net
3. Attend your sub-team meeting (separate message to follow with meeting time, etc.)
4. Request help if you need it: chair@mgacepc.org

"It is amazing what you can accomplish if you do not care who gets the credit."
Harry S. Truman.

Agenda Item 7. GIS/LIS Consortium new ad-hoc committees

MN GIS/LIS Professional Development Committee Summary

Date: September 9, 2020

Committee Name: Professional Development

Committee Chair: Andy King-Scribbins

Committee Members: John Nerge, Maisong Francis, Megan Sisko, Stacey Stark, Woo Suk Jang

Committee Responsibilities
1. Work closely with other Consortium Committees on activities related to Professional Development
2. Organize and moderate the Careers in GIS Panel Discussion at the annual conference and/or virtually as desired
3. Organize and manage the Consortium Mentorship Program, now a year-round activity
4. Organizing ad hoc resume reviews and job coaching, now a year-round activity
5. Promote usage of the Consortium job postings page
6. Organize and facilitate other networking events and activities throughout the year
7. Coordinate with other professional development groups throughout the region

Mentorship Program Guide

August 2020

MN GIS/LIS Consortium, 1000 Westgate Drive, Suite 252, St. Paul, MN 55114
Phone 651-203-7242 | Fax 651-290-2266 | www.mngislis.org

Introduction

For several years the annual MN GIS/LIS Consortium Conference has included a mentorship program to give students and early professionals the opportunity to connect with other GIS professionals. The mentors would provide mentees with conference navigation tips, career advice, a resume review and professional stories.

In 2020, the in-person annual conference was canceled due to concerns related to the COVID-19 pandemic. It was also decided at that time to expand many of the conference professional development opportunities into year-round activities with virtual participation options. This guide outlines the expectations and procedures for the Mentorship Program under this new format, with the target audience being potential and existing mentees/mentors.

The Mentorship Program is overseen by the Professional Development Committee. Any questions, comments, suggestions or concerns can be directed to profdev@mngislis.org.

Application Instructions

Applying to participate as a mentee or mentor is done through Survey123 using this link: https://arcg.is/1HKSr0

The survey is designed to match mentors and mentees through shared interests and experience in:

- Career sectors
- Career fields
- Areas of GIS
- Program participation goals and format

The survey is also designed for those seeking mentors at any level. While students and early career professionals are the most common mentee participants, we also encourage participants who are further into their careers and looking for mentors to help with career advancement advice.

The best way to find a good match is to be selective in your choices of interest, experience, and goals. If you feel those sections do not fully represent your reasons for participating, there is also an open text field for additional comments at the end of the survey. Here you can provide even more details about the specific type of mentor/mentee you would like to connect with.

Question Summary

- You will be asked to provide your name, email address, phone number, and current general living or working location.
- You will be asked if you are applying to be a mentor or a mentee and what your past experience with the program has been (if any).

- The remainder of the questions will be similar to past years and are meant to gauge your level of experience/interest in different areas, the format of interaction you'd prefer, and your goals for participating in the program.
- NEW in 2020 you will be asked if you would like to have more than one mentor/mentee. Given the ongoing and virtual dominant interactions, multiple matches may be of interest to some.
- NEW in 2020 we will also be collecting demographic data. Answering demographic questions is voluntary and not required for participation, but will help the consortium better understand the community we are serving, and perhaps help identify communities that may be underserved.
- The final question of the survey is an open text field. If needed, please use this space to elaborate on your specific interests, goals, and priorities for participating in the program.

Mentor Expectations

Mentors are expected to initiate the first meeting with the mentee. The mentor should work to understand the mentee's expectations and goals, and to suggest a frequency and format of meetings based on that understanding.

Mentors and mentees should work together on deciding the focus areas for each interaction. If either the mentor or the mentee feels the match does not suit their needs, they can discuss this together or contact profdev@mngislis.org directly.

Mentor Conversation Starters

1. Tell your mentee about yourself:
   a. What drew you to study and/or work in GIS/LIS?
   b. Is there a particular work project that you are most proud of?
   c. Did you have another career path before your current one?
   d. What sectors or fields have you worked in?
   e. What skills do you use most in your job today?
   f. What skills did you use most in your first GIS jobs?
   g. What have you accomplished in your career and how have you achieved those accomplishments?
   h. What are your future goals and aspirations?
   i. What is your 5-year plan? What is your 10-year plan?
2. Introduce your mentee to a colleague:
   a. Introduce your mentee to at least one of your colleagues that has other GIS responsibilities.
3. Tell your mentee about conferences:
   a. What conferences do you attend?
   b. Why do you attend and what do you get out conferences?
   c. What kinds of sessions do you attend?
   d. Ask if your mentee has any questions about conferences or other professional events.
4. Early career recommendations:
   a. Do you have any recommendations you would like to tell your mentee about regarding resumes professional organizations, professional certifications, networking opportunities, conferences, etc.?
   b. How can your mentee improve their resume while still in school or shortly thereafter?
5. Resource recommendations:
   a. Do you have any recommendations for skill-building resources (e.g. online learning platforms, YouTube channels, books)?
   b. Are there any classes, workshops, conferences or opportunities s/he could take advantage of?

Mentee Expectations

Mentees are expected to take charge of setting meeting times after the initial meeting. While mentors and mentees should work together on deciding the focus areas for each interaction, the mentee is expected to be as forthcoming as possible about their needs, expectations and goals.

If either the mentor or the mentee feels the match does not suit their needs, they can discuss this together or contact profdev@mngislis.org directly.

Mentee Conversation Starters

1. Tell your mentor about yourself:
   a. What drew you to study and/or work in GIS/LIS?
   b. How are you currently using geospatial technologies in your schooling or job?
   c. How do you picture yourself using geospatial technology in your future career?
   d. Are you interested in a certain sector or field?
   e. What do you think are your skill strengths and weaknesses?
   f. What are your goals and aspirations?
   g. What is your 5-year plan? What is your 10-year plan?
2. Ask for advice:
   a. If your mentor could recommend one thing to prepare for, what would it be and why?
   b. What technical skills would your mentor recommend developing?
   c. What soft skills would your mentor recommend developing?
3. Find out about your mentor's career path:
   a. Where did your mentor start their career path?
   b. Is this where your mentor thought they would end up in their career? Why/why not?
   c. Looking back, would you have done anything differently?
4. Find out about your mentor's current work:
   a. What are the three most important things your mentor does?
   b. What is the biggest professional challenge your mentor has faced in their current position? How did they address it?
   c. What is most rewarding about your mentor's current work?

Mentorship Formats

The preferred format (types of activities) of the mentorship by the mentee and mentor are taken into consideration in the matching process. However, preferences may not be identical despite best efforts to achieve this. It is important for the mentor and mentee to establish mutually agreed-upon mentorship activities that both parties are comfortable with.

Mentorship formats and meeting options may include but are not limited to virtual one-on-ones, in-person one-on-ones, virtual group gatherings, in-person group gatherings, email communication, informational interview, workplace tour, job shadow, resume review discussion (live), or written resume review feedback. In-person meeting places could include coffee shops, workplace spaces, or other public places of common interest to the mentee and mentor. It is recommended that any in-person meetings follow appropriate social distancing recommendations that may currently be in place due to the COVID-19 pandemic.

Should you need assistance in facilitating a meet-up, virtually or in-person, please reach out to the Professional Development Committee at profdev@mngislis.org.

Length of Mentorship

The mentorship program is an ongoing program in which mentors and mentees may have multiple mentees and/or mentors at any given time, if desired. The time length of mentorship is completely decided upon by the mentee and mentor, which may vary based on the desired mentorship format, as well as the needs, expectations, goals, and availability of the mentee and mentor. If ever a mentorship seems to have reached its end and the mentee or mentor would like a new match, s/he may contact the Professional Development Committee to communicate this.

At 6 months, if the Professional Development Committee has not heard otherwise from the mentee or mentor, mentorships will be considered complete. Mentees will not be assigned a new mentor unless requested via an email to the Professional Development Committee or by filling out a new mentee form. Mentors may be contacted by the Professional Development Committee regarding new mentee matches on an as needed basis. In general, mentors are advised to fill out a new mentor form every 12 months to re-express interest in participating as a mentor and to update their information to improve the matching process.

DRAFT Charter

Geospatial Commons Advisory Committee

Mission statement:

To provide advice, guidance and strategic direction for the Minnesota Geospatial Commons and Minnesota's collaborative geospatial data sharing program, from the broad perspective of the Minnesota geospatial data stakeholder community.

Objectives and Deliverables:

- Represent the broad interests of the Minnesota geospatial data stakeholders, including a diversity of sectors and user roles.
- Define and advocate for the needs of the geospatial data stakeholder community.
- Define and articulate opportunities to enhance Minnesota's geospatial data sharing program to increase the value of shared data.
- Provide guidance and advice on governance, policy, support and usage of the Geospatial Commons to help ensure its value to and use by stakeholders.
- Create mechanisms to reach out to and get feedback from the community of stakeholders.
- Help the Geospatial Commons operating agency (MnGeo) and multi-agency implementation team to communicate with the broader community about challenges and opportunities for the Commons.
- Act as a sounding board for the Commons operating agency and implementation team as needed.
- Help to envision the next generation of the Minnesota Geospatial Commons.
- Note: this committee is not a technical committee and does not provide technical implementation advice. Some members of this committee may also participate in technical groups.

Resource requirements and timing:

- The committee will meet as needed, with at least an annual meeting.
- Committee should have a representative from MnGeo as the operating agency and a representative from the Commons implementation team.
- Committee must have a strong, open and trusting relationship with MnGeo and the Commons implementation team.

Anticipated participants and their roles and responsibilities:

This committee will consist of representatives from a range of Minnesota Geospatial perspectives.

Name	Organization	Sector	Role
			Chair
			Vice-chair
			MnGeo Rep
			Implementation Team Rep
			Member
			Member
			Member
			Member

Prepared by: Mark Kotz, Mike Koutnik, Andra Mathews

Agenda Item 14. GAC Priority Projects and Initiatives

GAC Rank	Project or Initiative Name	Status	Priority Owner	Champ
1	**All public geospatial data in MN to be free and open to everyone**	Active		Many
2	**Updated and aligned boundary data from authoritative sources**	Active	Preston Dowell	Ross
3	**The implementation of an archive for Minnesota geospatial data**	Active	Ryan Mattke	many
4	**Statewide publicly available parcel data**	Active	Alison Slaats	Kotz
5	**Improvements to the MnGeo Imagery Service, such as Web Mercator support, tiling, and complementary options such as "composite of latest leaf off imagery", and downloading options**	Active	Alison Slaats	Ross
6	**Accurate hydro-DEMs (hDEM) that serve modern flood modeling and hydro-terrain analysis tools, and the development of more accurate watercourses and watersheds**	Active	Sean Vaughn	Many
7	**Statewide publicly available road centerline data**	Active		Ross
8	**New LiDAR data acquisition across Minnesota for use in developing new derived products guided by committee developed standards**	Active	Gerry Sjerven	Ross
9	**An emergency management damage assessment data standard to provide an accepted specification to support a request for State or Federal assistance after a disaster**	Active	Brad Anderson/ Cory Richter	
10	**Statewide publicly available address points data**	Active		Ross
11	**Maps, procedures, templates and other materials to help all levels of government implement the U.S. National Grid**	Active	Randy Knippel	Knippel
12	**A parks and trails data standard**	Active		
13	**A forum (committee, workgroup, etc.) for MN geospatial professionals to discuss and share best practices, standards, lessons learned, etc. for implementing and supporting the geospatial components of NG9-1-1**			
14	**A forum (committee, workgroup, etc.) to explore development of statewide data representing underground utilities**			
15	**Statewide and regional (e.g. Twin Cities metro) publicly available basemap services**	Active		
16	**A guide for describing in metadata the specifications of unmanned aircraft systems (UAS), unmanned surface water vehicles (USV), and unmanned underwater vehicles (UUV)**			
17	**An inventory and assessment of Minnesota's geospatial data assets**			
18	**Identifying a custodian and maintenance workflow for statewide critical infrastructure data**			
19	**A culvert data standard**			