

# Minnesota Geospatial Advisory Council Meeting

January 19, 2022

Webex. See meeting invite<sup>1</sup> for details.

10:00 a.m. – 11:00 p.m.

## Agenda

1. Call to order (Chair)	10:00	5 min
a. Approval of agenda		
b. Approval of <a href="#">December 15, 2021 minutes</a>		
2. MN Geospatial Priorities Survey and GAC Priorities for 2021	10:05	45 min
3. Announcements	10:55	10 min
4. Adjourn	11:00	

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<sup>1</sup>To request the Webex meeting invitation, contact MnGeo at [gisinfo.mngeo@state.mn.us](mailto:gisinfo.mngeo@state.mn.us)

## Agenda Item 2. MN Geospatial Priorities Survey and GAC Priorities for 2021

### Why Create Priorities?

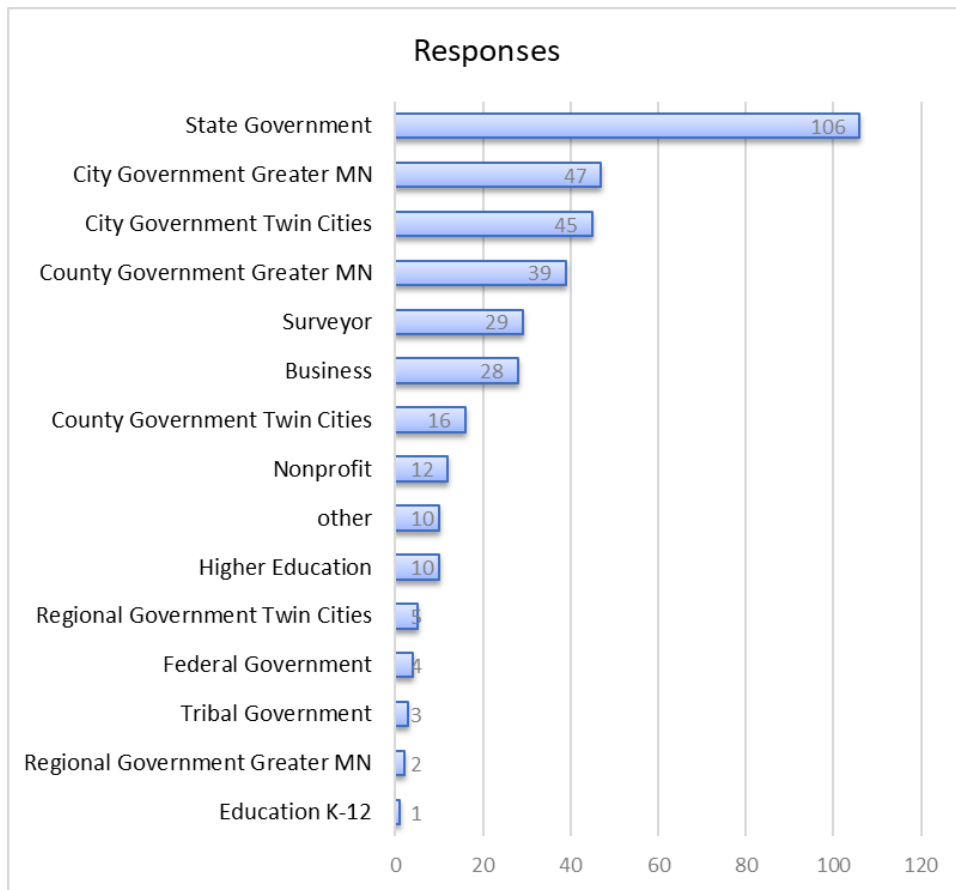
1. To create a voice for the MN geospatial community
2. To direct work plans of the GAC and its committees
3. To recommend to MnGeo
4. To allow other organizations to compare priorities and align efforts
5. To inform outreach and policy related efforts
6. Having clear direction helps motivate people to participate

### Prioritization Process

- Create a list of proposed projects and initiatives
  - From GAC members and committee chairs
  - Announced at the annual GIS/LIS Consortium conference
- Assess the **value** of each – degree of business need
  - MN Geospatial Priorities Survey
- Assess **likelihood of success** of each - owner, work team, champion, funding
- Preliminary priority calculation
- GAC discusses and adjusts

## Survey Responses

- 357 total responses
- 299 last year
- 58 more responses



## Results Summary

- Scoring: Critical = 3, Very Important = 2, Nice to have = 1, Not needed or not answered = 0
- Scores shown weighted and unweighted. Weighting is by GAC seats representing sectors (e.g. nonprofit results have weight of 1 (1 seat), state government results have weight of 2 (2 seats)).
- Results are similar weighted and unweighted.

Project Short Name	Project Long Name	Score Weighted by Sector	Score Not Weighted
<b>Lidar Data</b>	New lidar data acquisition across Minnesota for use in developing new derived products guided by committee developed standards	<b>2.095</b>	1.99
<b>Updated &amp; Aligned Boundary Data</b>	Updated and aligned boundary data from authoritative sources	<b>2.093</b>	2.03
<b>Parcel Data</b>	Statewide publicly available parcel data	<b>1.959</b>	1.80
<b>Road Centerline Data</b>	Statewide publicly available road centerline data	<b>1.870</b>	1.81
<b>Strategy Team for All Types of Imagery</b>	A project team to develop a long-term, statewide strategy for optical, lidar, radar, aerial and satellite imagery	<b>1.833</b>	1.76
<b>MnGeo Image Service Improvements</b>	Improvements to the MnGeo Image Service, such as Web Mercator support, tiling, and complementary options such as “composite of latest leaf off imagery”, and downloading options	<b>1.790</b>	1.70
<b>Hydro-DEMs</b>	Accurate hydro-DEMs (hDEM) that serve modern flood modeling and hydro-terrain analysis tools, and the development of more accurate watercourses and watersheds	<b>1.764</b>	1.72
<b>Basemap Services</b>	Statewide and regional (e.g. Twin Cities metro) publicly available basemap services	<b>1.709</b>	1.62
<b>Critical Infrastructure Data Workflow</b>	Establish a workflow for developing, sharing and maintaining statewide, publicly available, authoritative geospatial data for primary critical infrastructure themes	<b>1.690</b>	1.67
<b>Address Points Data</b>	Statewide publicly available address points data	<b>1.681</b>	1.57
<b>Inventory of MN GeoData Assets</b>	An inventory and assessment of Minnesota’s geospatial data assets	<b>1.674</b>	1.55
<b>Remonumentation of all Section Corners</b>	Remonumentation of all section corners in the state	<b>1.624</b>	1.61
<b>Geodata Archive Implementation</b>	The implementation of an archive for Minnesota geospatial data	<b>1.590</b>	1.55
<b>Geospatial Commons Advisory Group</b>	A Geospatial Commons advisory group to provide advice, guidance and strategic direction for the Commons from the broad perspective of the MN geospatial data stakeholder community	<b>1.559</b>	1.43
<b>NG9-1-1 Geospatial Forum</b>	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	<b>1.500</b>	1.39
<b>Success Stories for Geospatial Technology</b>	Outreach and education to show success stories for geospatial technology	<b>1.481</b>	1.34
<b>Underground Utilities Data Sharing Team</b>	A project team to develop geospatial data sharing methodologies to support the state’s underground utilities community	<b>1.460</b>	1.41
<b>Climate Projection Data</b>	Dynamical Downscaled Climate Information (high resolution climate projection data)	<b>1.388</b>	1.24
<b>Parks Data Standard</b>	A parks data standard	<b>1.369</b>	1.17
<b>U.S. National Grid Materials</b>	Maps, procedures, templates and other materials to help all levels of government implement the U.S. National Grid	<b>1.356</b>	1.32

<b>State Business License Data</b>	Statewide, publicly available, authoritative geospatial data for businesses with state-required licenses, permits or registrations	<b>1.332</b>	1.21
<b>Culvert Data Standard</b>	Development of a culvert data standard for data sharing across the geospatial and infrastructure asset management communities and to support development of a future statewide culvert inventory	<b>1.273</b>	1.32
<b>CJIS Data GIS Best Practices</b>	Best practices based on Criminal Justice Information Services (CJIS)/Bureau of Criminal Apprehension (BCA) guidance for connecting law enforcement data to GIS systems for analysis and sharing	<b>1.235</b>	1.11
<b>Summary Crime Data</b>	Summary data by region for property crimes in an accessible GIS format	<b>1.041</b>	0.93
<b>Snow Emergency Parking Data Practices</b>	Best practices/guidelines for sharing snow emergency parking restrictions between cities	<b>0.938</b>	0.87
<b>Street Parking Restrictions Data Standard</b>	Data standard for street parking restrictions	<b>0.906</b>	0.81

## Results by Sector

Project Short Name	Score Weighted by Sector	Business	City Greater MN	City Metro	County Greater MN	County Metro Area	Federal Govt	Higher Education	K-12 Education	Nonprofit	Other	Regional Govt Greater MN	Regional Govt Metro	State Govt	Surveyor	Tribal Govt
Parcel Data	1.96	2.29	1.64	1.24	1.26	1.19	1.75	2.30	1.50	2.25	1.90	3.00	2.80	2.14	1.69	2.00
Updated & Aligned Boundary Data	2.09	2.11	1.98	1.87	1.79	2.19	2.00	2.00	1.50	2.17	1.90	3.00	2.40	2.23	1.62	3.00
Strategy Team for All Types of Imagery	1.83	1.89	1.68	1.64	1.51	1.75	1.50	2.20	1.50	2.17	2.00	2.50	1.20	1.93	1.31	2.67
Lidar Data	2.09	1.93	1.79	1.84	1.90	1.94	2.25	2.80	1.50	2.25	2.00	2.50	2.20	2.13	1.66	2.67
Geodata Archive Implementation	1.59	1.50	1.62	1.62	1.41	1.19	1.25	2.30	1.50	1.33	1.30	2.00	1.40	1.70	1.14	1.67
Road Centerline Data	1.87	2.11	1.96	1.38	1.59	1.88	1.50	1.70	1.50	1.75	1.60	3.00	1.80	2.04	1.45	2.67
Address Points Data	1.68	1.75	1.81	1.44	1.28	1.63	0.75	1.60	1.50	1.92	1.30	2.00	2.80	1.65	0.97	2.67
Inventory of MN GeoData Assets	1.67	1.68	1.62	1.42	1.15	1.13	1.75	2.30	1.50	1.42	1.30	2.50	1.40	1.75	1.28	2.00
Hydro-DEMs	1.76	1.75	1.81	1.60	1.44	1.38	2.00	2.20	1.50	2.00	2.10	2.00	2.00	1.92	1.14	1.67
Basemap Services	1.71	1.82	1.66	1.82	1.18	1.38	1.00	1.90	1.50	1.83	2.00	2.00	1.80	1.63	1.38	3.00
Critical Infrastructure Data Workflow	1.69	1.57	1.96	1.62	1.49	1.63	1.25	1.80	1.50	1.92	1.20	2.00	1.60	1.72	1.45	2.33
MnGeo Image Service Improvements	1.79	1.75	1.60	1.71	1.59	1.19	1.75	2.20	1.50	1.83	1.70	2.50	1.80	1.84	1.34	2.33
Underground Utilities Data Sharing Team	1.46	1.68	1.83	1.56	1.00	1.44	1.25	0.60	1.50	1.83	1.00	2.00	1.80	1.22	1.59	2.00
Geospatial Commons Advisory Group	1.56	1.64	1.47	1.22	1.13	1.13	0.75	2.40	1.50	1.25	1.20	2.00	1.60	1.61	1.21	2.00
Remonumentation of all Section Corners	1.62	1.46	1.57	1.20	2.28	1.44	1.50	1.10	1.50	1.25	1.40	2.00	2.00	1.51	2.17	2.67
Culvert Data Standard	1.27	1.39	1.36	1.22	1.18	1.38	0.50	1.00	1.50	1.25	1.20	2.00	0.80	1.57	0.97	1.33
Success Stories for Geospatial Technology	1.48	1.64	1.26	1.20	1.23	1.06	1.00	2.10	1.50	1.25	1.30	2.00	1.40	1.35	1.41	1.67
NG9-1-1 Geospatial Forum	1.50	1.57	1.30	1.42	1.56	1.44	1.25	1.40	1.50	1.25	1.50	2.00	2.00	1.25	1.34	2.00
U.S. National Grid Materials	1.36	1.29	1.62	1.49	1.08	1.19	1.25	0.90	1.50	1.83	1.10	2.00	0.80	1.24	1.31	2.00
Parks Data Standard	1.37	1.21	1.34	1.53	0.67	1.38	1.00	1.20	1.50	1.42	0.90	2.50	2.00	1.09	0.79	2.00
Climate Projection Data	1.39	1.46	1.11	1.11	0.79	0.81	0.50	2.30	1.50	1.42	1.80	2.00	1.00	1.49	0.72	2.00
CJIS Data GIS Best Practices	1.24	1.07	1.38	1.38	1.10	1.38	0.50	1.10	1.50	1.08	1.10	2.00	1.20	0.92	0.69	2.33
State Business License Data	1.33	1.61	1.40	1.31	1.03	1.31	1.25	1.00	1.50	1.00	1.00	2.00	1.00	1.20	0.72	2.33
Snow Emergency Parking Data Practices	0.94	0.93	1.30	1.16	0.54	0.63	0.25	0.60	1.50	0.58	0.70	2.00	0.80	0.85	0.55	1.33
Summary Crime Data	1.04	1.11	1.11	1.40	0.67	0.94	0.00	0.90	1.50	1.17	0.80	2.00	0.60	0.78	0.62	1.67
Street Parking Restrictions Data Standard	0.91	0.82	1.28	1.31	0.36	0.69	0.00	0.50	1.50	0.50	0.90	2.00	1.00	0.69	0.48	1.67

## Comments

- Address geocoding for accurate service deliver measurements is critically needed by state agencies delivering health services. We need good process documentation on how to perform large batch jobs to clean/correct and geocode addresses sent by state agencies.
- We have a world class Lutsen Ski Resort wanting to expand their facility... buying national forest land. There is NOT a land corner within 4 miles north, 2 miles south and 3 miles west. Our land corner data base is only 35% complete in Cook County. The Co. Recorder refuses to offer incentives to land surveyors to monument corners.
- As a Land Surveyor I cannot stress enough the importance of establishing the Public Land Survey Corners. These corners are the framework for any boundary mapping that has been done since the 1850's. This work is specialized, highly skilled and expensive.  
Speaking frankly and from my own experience, private Land Surveyors have little to no incentive to do this work to the degree of completeness it deserves. This is because the cost to do so cannot reasonably be subsidized by private individuals or by the donated time of a private Land Surveyor.  
This work is the responsibility first of State and Local Governments. Start with a good framework early and support any existing efforts to establish the Public Land Survey Corners.
- I am glad that your organization sees the need and benefit of the remonumentation of section corners. The only thing i ask and for is that only surveyor that perform regular surveying work in an area is looked at for that specific area. When performing remonumentation work, local knowledge and existing records play such an important role in the success of the remonumentation. I have seen remonumentation projects go wrong when it is left to the low bidder, normally not from the area and have no knowledge of that area.
- Filling the gaps in regards to parcel data and aerial imagery on a county-level would be great. Many counties (mostly rural) have no GIS layers available for download or streaming without having to pay.
- A comprehensive and easy to integrate catalog of online spatial data services, suitable for adding into any GIS enabled system is a critical need.  
Additionally, a method to validate and maintain both a current and active version of data as well as temporal archives of said datasets is needed.  
These two capabilities alone will progress the state of GIS in the State the quickest.
- Every dataset on the MnGeoCommons should be available as an ArcGIS Server service, available on AGOL Online through a MnGeo Hub Page. The Commons is fantastic we still need it and should maintain it but can we enhance it to make it better for all. Even if as a first step as having an AGOL item type available in the commons. It would be nice to interact with the data. I.e. right now in AGOL, users using a hub can view/filter and interact with data before they download it. I know not EVERYONE uses Esri/AGOL - but many people do - including Minnesota K12 students. Also, I wish that all of the services were served from the Commons and that the individual agency's services were used to support their own internal and external apps. It's very confusing for users to have to go to different places for data. Also making it easier to provide feedback for data sources and request new data. I appreciate all of your hard work and I know this takes a lot of staff time and resources. Thank you!
- As an Electric Utility we are required to submit permits when work is being done in the State or County Road Right-of-way(ROW). The maps we are required to use are PDF based road right-of-way maps of poor quality and sometimes as old as the 1950s. We are then required to print off these ROW maps and hand draw our proposed construction work, as well as that of any other organization utilizing that road ROW. This requires us to submit a design locate through GSOC (a 15 day process) and then manually hand draw those designs onto the printed PDF ROW Maps. You can imagine the implied margin of error in this process and the additional overall lack of usefulness and time consumption this process takes. In 2022 there has got to be a better way to facilitate this through the use of our statewide GIS capabilities.

- This is a great initiative. I recently moved to the Twin Cities metro area and started working at City of Andover as the GIS Coordinator. I am looking forward to working with the GAC and help out when needed. Please let me know how I can assist!
  - The update parcels and ownership data noted above are a critical need across many sectors. The relatively ancient layer available from data collected around 2007 no longer serves the need and must be updated. Needed improvements also include better standardization of attributes among layers collected from individual counties. A broad ownership classification attribute would also be useful. Classes should include: Private, Industry, County, State, Federal, and Tribal.
- Thank you for the opportunity to contribute to prioritization of needs related to Minnesota's GIS/LIS user community