Minnesota Geospatial Advisory Council Meeting

December 5, 2018

Blazing Star Room, Ground Floor, Centennial Office Building

658 Cedar St., St. Paul, MN 55155

11:00 a.m. – 2:00 p.m.

Agenda

1.	Call to order (Chair) a. Introductions b. Approval of agenda c. Approval of meeting minutes from 9/5/2018	11:00	15 min
2.	Review and accept committee summaries (All) – *page 2*	11:15	5 min
3.	Minnesota Geospatial Image Service Sustainability Plan (McGuire) – *page 14*	11:20	10 min
4.	Standards Committee update (Maas)	11:30	10 min
5.	Filling vacant GAC seats (Ross)	11:40	5 min
6.	Surveyor seat on GAC (Stovern/Kotz) – *page 18*	11:45	10 min
7.	GAC presentations at GIS/LIS & NSGIC Conferences - feedback	11:55	5 min
8.	Break networking	12:00	30 min
9.	Geospatial Priorities Survey results and 2019 GAC priorities (Kotz) – *page 19*	12:30	45 min
10.	Sector report (Sjerven)	1:15	10 min
11.	Legislative updates	1:25	5 min
12.	Updates on MN GAC priority projects and initiatives	1:30	15 min
13.	Announcements or other business	1:45	15 min
14.	Adjourn	2:00	

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

3D Geomatics Committee

Report date: 11/27/2018

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

Meetings:

- Meetings of the Steering committee switched to monthly meetings to allow for members to be involved in 3DGeo Workgroup and Workgroup-subgroup meetings
    - 9/21/2018, 11/1/2018, 11/20/2018

Progress on work plan & Next Steps:

- Committee and Workgroups are on track for meeting objectives for the year.
- Presented at the MN GIS/LIS Consortium Conference, '3D Geomatics Committee Update and Topic Discussion for the GIS/LIS Community – Focusing on A Guided Approach to Minnesota's Next LiDAR Collect.' Attended mostly by Committee members
- Biographies, agendas and minutes have been posted to the website
- Developing a Sharepoint site for committee collaboration
- Committee will coordinate the update of the 3DEP fact sheet
- Added Jack Kluempke, MN Department of Commerce to the Steering Committee.
- Infrastructure Workgroup (Colin Lee)
    - Working with Department of Commerce to identity recently acquired MnDOT LiDAR data with Minnesota's existing LiDAR data collect to determine if new data would assist in solar suitability.
    - Working on an Efficiency study to compare new, high resolution, large area collected LiDAR data in place of their current business model of collecting single corridor (project based) high resolution LiDAR data.
- Vegetation Workgroup
    - Still recruiting, specifically emergency response and FEMA networked folks
    - Working on pilot SPL data for forest inventory
    - UMN/DNR looking to disseminate findings soon
    - Continue to promote 3DEP compliance for any new collects
- Hydrography Workgroup
    - Continues to host monthly meetings
    - Established Digital Dam Breachline Subgroup
        - 5 meetings have been held
    - Established Hydrography Data Catalog Subgroup
    - 2 meetings have been held

- Next Steps and Role for the Steering Committee
    - Review 2018 objectives
    - Develop Workplan and objectives for 2019

3D Geomatics Committee
Hydrography Workgroup

Report date: 11/27/2018

Prepared by: Workgroup co-chairs Andrea Bergman, Rick Moore, Jamie Schulz (all MNIT@DNR)

Meetings:

- Workgroup meetings held, biweekly transitioning to monthly. Three additional meetings held since last update.
    - 4/17/2018 (minutes)
    - 5/8/2018 (minutes)
    - 5/22/2018 (minutes)
    - 6/26/2018 (minutes)
    - 7/10/2018 (minutes)
    - 8/14/2018 (minutes – work plan survey summary included on last page)
    - 9/11/2018 (minutes)
    - 10/9/2018 (minutes)
    - 11/13/2018 (minutes submitted to be posted)
- Continue presenting 'Current Projects of Interest' meeting component to the workgroup. These are short presentations (5-20 minutes) to spotlight work by agencies or organizations that workgroup members may not know about but would find relevant to their work.
    - 3D elevation derived hydrography (NXG-Hydro) (Rick Moore and Sean Vaughn – MNIT@DNR)
    - DNR Hydrography Stream Names (Jamie Schulz – MNIT@DNR)
    - MnGeo Altered Watercourses Layer (Jim Krumrie – MnGeo)
    - NOAA Elevation Products and Services (Brandon Krumwiede – NOAA)
    - Daily Erosion Project (Matt Drewitz – BWSR)
    - NRCS GIS Process and Engineering Tools (Christiane Roy – NRCS)
    - Buffer Mapping Project (Andrea Bergman – MNIT@DNR)
    - LiDAR Derived Restorable Wetlands Inventory (Grit May – International Water Institute)
    - Agricultural Conservation Planning Framework (ACPF) – (David James – USDA/ARS NLAE)
- Workgroup attendance at 3D Geomatics workshop (6/12/2108)
- Breachline subgroup established and meetings held on:
    - 7/24/2018
    - 8/10/2018
    - 9/13/2018
    - 10/10/2018
    - 11/27/2018
- Data Catalog subgroup established and meetings held on:
    - 9/24/2018
    - 10/31/2018

Progress on work plan:

- Mission statement presented and accepted by workgroup
- The three workgroup champions and Sean Vaughn, liaison to 3D Geomatics Steering Committee, worked to identify and recruit members of the workgroup.
    - Co-chairs elected
    - Ongoing recruitment by membership
- Drafted and distributed survey to prioritize work plan action items to workgroup members
    - Summarized survey results and presented to workgroup at 8/14/2018 meeting
    - Updating work plan based on survey results (in progress, will be posted to webpage when complete)
- Maintaining workgroup web page with Nancy Rader, MNGeo, to update important content related to the workgroup. Link to: Hydrography Workgroup web page
    - Added member biographies
    - Organized and updated Resources section
    - Added section to highlight Hydrography Project Examples
- Breachline Subgroup
    - Started process for standardizing attributes for breachlines
    - Created consensus on standardized attributes for breachlines
    - Explored protocol for QAQC of existing breachlines
    - Discussed group members hydro-modification methodology
    - Reviewed Hydro-modification tools utilized by group members – working towards consensus on best practices in hydro-modification
    - Developing a Hydro-modification Guidance Document with group members input
- Data Catalog Subgroup
    - Guidance Document creation is ongoing, including
        - Mission Statement
        - Purpose
        - Accountability

Additional comments:

Archiving Workgroup

Report date:
Monday, November 19, 2018

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

Meetings:
The workgroup met on October 8 and November 7.

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

Workgroup will continue to meet monthly.

Progress on work plan:

- Work Plan and Charter approved at September 5 GAC meeting.
- Divided the work for the nine activities and deliverables and identified workgroup members for each subgroup.
- Developed a Stakeholder Feedback Survey to gather community feedback about archiving geospatial data; survey will go out late November or early December.
- The workgroup also staffed a table at the MN GIS/LIS Conference to raise awareness and solicit input. Received 85 votes on "what type of data is most important to save."

Additional comments:

Emergency Preparedness Committee

Report date: November 20, 2018

Prepared by:
Randy Knippel
GIS Manager, Dakota County
Randy.knippel@co.dakota.mn.us

Steve Swazee
President, SharedGeo
sdswazee@sharedgeo.org

Meetings:
September 25, 2018 - Damage Assessment Tiger Team with HSEM staff
October 3, 2018 – Full Committee meeting (GIS/LIS)
October 24, 2018 – USNG Implementation Working Group (IWG)

Progress on work plan:
USNG Tiger Team

- October 3 full committee meeting highlights
    - Attended by Richard Butgereit, CIO, Florida Division of Emergency Management
        - Richard is also Chair of NSGIC Geospatial Preparedness Committee
        - Richard talked about the State of Florida use of the USNG
        - He is looking for more synergy between NSGIC GPC related to USNG implementation
        - Discussed the USNG IWG
- USNG Implementation Working Group (IWG)
    - https://sites.google.com/a/sharedgeo.org/usng-iwg/home
    - Continuing quarterly meetings
        - 24 participants (nation-wide)
        - Continuing with 3 committees
            - Administrative (Swazee leading)
            - Technical (Knippel participating)
            - Training (Knippel leading)
- Continued engagement in “SAR and GIS” Google group
    - Group has numerous references to the USNG
    - 343 members
    - https://groups.google.com/forum/#!forum/sar-and-gis
- Updated NAPSG Foundation ArcGIS Pro Map Book template with tasks:
    - https://napsg.maps.arcgis.com/home/item.html?id=f93ebd6933cb4679a62ce4f71a2a9615

Damage Assessment Tiger Team

- Had a productive conference call with John Moore, Ryan Smith, and Chad Hanson with HSEM on September 25th, 2018. Recognition that a standard would be beneficial for HSEM so that they could receive damage assessment data and information from entities in a consistent format.
- Conversation with Jared Hovi at Carlton County on their successful assessment collection during the recent Federally declared disaster. Jared to share their schema and process with the Group after the Minnesota GIS\LIS Fall Conference.
- Damage Assessment Group still proceeding slowly while monitoring progress with the WebEOC and iCarol applications.
- During the EPC meeting at the Minnesota Fall GIS\LIS Cory Richter gave an update on the Damage Assessment Tiger Team activities and had an open discussion with Chad Hanson from HSEM to talk about collaboration going forward.
- Future meetings of the standards tiger team are TBA

Other Activities

- Randy Knippel continues to be an active member of the Metropolitan Emergency Managers Association as their GIS Liaison
    - Attend monthly meetings
    - Provide updates related to metro and state GIS activities
        - E911
        - Data standards
        - Geo Commons
- Dakota County continues to host USNG maps for the metro region
    - http://maps.co.dakota.mn.us/
- SharedGeo is actively pursuing opportunities to facilitate implementation in local government across the Nation
    - Creation of maps and map books
    - Implementation of Emergency Location Markers

Outreach Committee

Report date: November 26, 2018

Prepared by:
Kari Geurts, kari.geurts@state.mn.us
Len Kne, lenkne@umn.edu

Meetings:
No committee meetings this quarter. Presented Cities Open Data Survey results at the MN GIS/LIS conference in October.

Progress on work plan:

- Accomplishments:
  - Completed survey for Minnesota cities about their support and questions about free and open data.
  - Preliminary survey results were compiled and presented at the MN GIS/LIS conference.
  - Work has begun on writing the final report for the Minnesota Cities Open Data Survey report.
  - Started collecting GIS success stories to promote the value of GIS to a wide range of stakeholders.
- Problems or impediments: None
- Required assistance: None

Additional comments:
None

Parcels and Land Records Committee

Report date:
11/26/2018

Prepared by:
George Meyer Chair, Parcels and Land Records Committee
Lead Developer
Otter Tail County GIS Dept.
Office# 218-998-8310
Direct# 218-998-8313

Meetings:
Last meeting date 05/17/2018
Meeting planned for Dec 2018. Time TBD

Progress on work plan:
Work on developing PLSS standard continues.
Meeting to be scheduled for early December 2018 to take advantage of availability of the MN survey community.

Additional comments:

Standards Committee

Report date:
Thursday, November 8, 2018

Prepared by:
Geoff Maas, Chair | geoffrey.maas@metc.state.mn.us | 651.602.1638
Andra Mathew, Vice Chair | amathews@mncenter.org | 651.223.5969

Meetings:
The last two Standards Committee meetings were held on:
September 25, 2018 – Conference Call Hosted by the Metropolitan Council
October 25, 2018 – In-person meeting at the Metro County Government Center in St. Paul

Upcoming meetings are planned for:
November 27, 2018 – Conference Call to be hosted by the Metropolitan Council
January 10, 2019 – Venue TBD

Recent and archived meeting minutes are here: http://www.mngeo.state.mn.us/committee/standards/

Progress on work plan:
The Committee's most current work plan was revised and approved by the Committee on 2/26/2018 and the Geospatial Advisory Council on 3/28/2018; revisions to the Work Plan will be conducted in early 2019 and work plan items will be aligned to the status and needs of standards in development and up for revision.

Deliverable #1 for 2018 – Advancement & Adoption of the Parcel Data Transfer Standard
The Geospatial Advisory Council adopted the proposed Parcel Data Transfer Standard at its regular meeting on March 28, 2018. Work by the Metro Parcel Data Work Group (comprised of GIS staff from the Seven Metropolitan Counties) in transitioning from the old Metro Parcel Standard to the newly adopted standard during late summer/autumn of 2019 indicated that some revisions to the adopted standards were necessary these included:

Changes to the inclusion categories for COUNTY_PIN, STATE_PIN and TAX_NAME from Mandatory to Conditional – this accommodates the fact that not all parcels have a PIN if they represent a non-standard piece of property (e.g. right of way, open water, etc.)

Element 1.1 – County PIN (COUNTY_PIN)

Element affected	Version 1.0	Version 1.1	Explanation/New Information
Element 1.1 – **County PIN**	Inclusion category was **Mandatory**	Inclusion category is now **Conditional**	Some parcels (polygon) do not have a PIN assigned to them, however, they are legitimate instances of real estate and should appropriately be carried in the parcel dataset. The field COUNTY_PIN must be populated unless the polygon does not have a PIN assigned by the county. In this case, Element 4.58, Non-Standard Parcel Status (N_STANDARD) must be populated to explain the condition of the parcel.

Element 1.2 – State PIN (STATE_PIN)

Element affected	Version 1.0	Version 1.1	Explanation/New Information
Element 1.2 – **State PIN**	Inclusion category was **Mandatory**	Inclusion category is now **Conditional**	Some parcels (polygon) do not have a PIN assigned to them, however, they are legitimate instances of real estate and should appropriately be carried in the parcel dataset. The field STATE_PIN must be populated unless the polygon does not have a PIN assigned by the county. If not populated, Element 4.58, Non-Standard Parcel Status (N_STANDARD) must be populated to explain the condition of the parcel.

Element 4.10 – Tax Name (TAX_NAME)

Element affected	Version 1.0	Version 1.1	Explanation/New Information
Element 4.10 – **Tax Name**	Inclusion category was **Mandatory**	Inclusion category is now **Conditional**	Some parcels (polygon) do not have a tax name assigned to them. This field must be populated unless the polygon is not a tax parcel (e.g. a polygon showing right of way). If Tax Name is not populated, Element 4.58, Non-Standard Parcel Status (N_STANDARD) must be populated to explain the condition of the parcel.

Based on the work and recommendations of the Metro Parcel Data Work Group, The Standards Committee has revised Element 4.57 (Polygon to Point Relationship). POLYPTREL now contains only three possible values (see table below). Information previously carried in the attribute is now carried in the new Element 4.58 'Non-Standard Parcel Status'.

Element 4.57– Polygon to Point Relationship

Element affected	Version 1.0	Version 1.1	Explanation/New Information
Element 4.57 – **Polygon to Point Relationship** (POLYPTREL)	Inclusion category was **Conditional** Domain formerly contained ten values	Inclusion category is now **Optional** Domain values have ***changed to only contain three values***	Some counties create both a polygon and a point dataset for parcels; in such situations there may be more parcel points than parcel polygons. For example, there may be ***one polygon*** representing an entire condominium complex in the polygon dataset, but ***individual points representing each condo*** in the point dataset. This field is used to help explain that type of situation by providing information about the relationship between parcel polygons and parcel points. The new domain values for **POLYPTREL** are as follows: **0** = Information no available or not provided

			1 = Parcel with a single tax PIN and a one-to-one relationship between polygon and point datasets; **2** = In the polygon dataset: Single parcel polygon representing multiple tax PINs In point dataset: One of multiple parcel points that together are represented by a single polygon

Based on the work and recommendations of the Metro Parcel Data Work Group, The Standards Committee has added a new field to the Parcel Data Transfer Standard. This field is called **Non-Standard Parcel Status (N_STANDARD).** If you have an empty COUNTY_PIN (and therefore you'd have an empty STATE_PIN too), your parcel is then determined to be a "non-standard parcel" and one of the domain values would apply to explain it.

Element 4.58– Non-Standard Parcel Status (New Element introduced for Version 1.1)

Element affected	Version 1.0	Version 1.1	Explanation/New Information
Element 4.58 – **Non-Standard Parcel Status** (N_STANDARD)	Element did not exist in Version 1.0 of the Parcel Data Transfer Standard	Added as new element to the Parcel Data Transfer Standard to provide clarity for situations when no PIN is assigned to a polygon Inclusion category is **Conditional**	This field is used to provide more information when a record is included in the dataset that is not a standard tax parcel. Such records might not have a unique PIN assigned by the county and/or might not have many attributes populated. This is typically used when the dataset contains things like rights-of-way that have been deeded to the public. Some counties assign PINs to these polygons while others do not. This field must be populated if this record does not include a PIN. The new domain values for **N_STANDARD** are as follows: 10 = Condominium Common Area 11 = Right of way 12 = Easement 13 = Ownership unknown 14 Gap between parcel boundary descriptions 15 = Water body 16 = Ditch 17 = Walkway 18 = Preliminary parcel where PIN not yet assigned 98 = Other non-parcel features 99 = Unspecified non-parcel feature

The Standards Committee has connected with staff at the Department of Education, they unfortunately have several internal standards going at once, however, they are potentially looking to move toward one consistent standard in the near future. Scott Freburg (Dept of Education) has advanced a recommendation for the '**0X-0XXX**' format to become the standard.

Element 5.2 – School District

Element affected	Version 1.0	Version 1.1	Explanation/New Information
Element 5.2 – **Non-Standard Parcel Status** (N_STANDARD)	Format of the attribute was not fully understood in Version 1.0 of the Parcel Data Transfer Standard	A formalized format of '0X-0XXX' has been agreed upon in consultation with staff at the Department of Education	In the original version of the Parcel Data Transfer Standard, no leading zeros were added to the values (e.g. 1-138, 3-6, 1-2448). In this revision of the standard and in consultation with staff from the Department of Education, the standard indicates the preference for leading zeros (e.g. 01-0138, 02-0006, 01-2448)

Deliverable #2 – Regular Meetings Scheduled

September 25, 2018 – Conference Call hosted by the Metropolitan Council
October 25, 2018 – In person meeting at the Metro County Government Center in St. Paul
November 27, 2018 – Upcoming Conference Call to be hosted by the Metropolitan Council
January 10, 2019 – Venue TBD

Deliverable #3 – Updating Work Plan and Standards Procedures as needed

The Standards Committee Work Plan will be revisited and adjusted as needed and a 'change management protocols for adopted standards' (a partial draft of which is complete) will be finalized for the discussion of the Committee later in 2019. The 2019 Work Plan is anticipated to include language discussing the re-formatting of the original Governor's Council on Geographic Information standards into the GAC format.

Deliverable #4 – Road Centerline Standard Review and Advancement

At its 9/25/18 and 10/25/18 meetings, the Committee finalized its review and discussion of the stakeholder comments received on the MRCS (road centerline standard). Members of the Committee are preparing the next version of the MRCS (v. 0.6) and a body of supporting materials to explain the individual elements, define the terms and provide clarity for the data producer and data user communities.

A second round of stakeholder review is planned for early 2019 for the revised MRCS standard. Upon the conclusion of the 45-day Parcel Data Transfer Standard v. 1.1 public review. The Committee does not wish to have two standards in public review at the same time.

Additional comments:

Review and refinement of adopted standards:

Minor revisions to the Address Point Data Standard (to version 1.2) have been approved by the Standards Committee. This revision simply cleans up typographic errors and aligns the standard with the features of other standards adopted and in development.

Agenda Item 3. Minnesota Geospatial Image Service Sustainability Plan

Version 0.4, 11/20/2018

Minnesota Geospatial Image Service Sustainability Plan Proposal

Background

The MnGeo Image Server is a valuable resource for agencies through the state. It is managed by MnGeo. The goal of this service when it was created in 2007 was to "provide versatile access to large statewide raster databases according to the Open GIS Consortium's Web Map Service (WMS) standards". It started with 6 layers.

Since then, this image service has become one of the Minnesota Geospatial Community's most popular resources. As of July 2018, there were 77 image layer sources taken from 1991 to 2017. These layers take 1.4TB of disk space. We are adding 70GB[1] per year. Despite the costs of disk space trending downward, this growth appears unsustainable.

Goal

At the request of MnGeo and as directed by the Geospatial Advisory Council (GAC), the goal of this workgroup is to:

A. Create a "decision matrix" to categorize image layers into a lifecycle and ultimately retirement* from the MnGeo service.
B. Establish Stakeholders that can use the decision matrix to evaluate layers for categorization on a periodic basis.
C. Communicate to the Minnesota Geospatial community, by way of the GAC, the status of layers, especially layers that should be considered for retirement and/or archival archive.

*Note: that we're not suggesting "getting rid" of data so that it is never retrievable again.

Stakeholders and Roles

Maintenance Team

A small maintenance team should be formed with representatives from a range of Minnesota Geospatial perspectives. The maintenance team is proposed to be a GAC committee which will meet at least annually to:

- Review existing layers
- Make layer status changes based on **Decision Factors**
- Notify GAC of recommended layer status changes
- Consider decision factors and make changes if necessary
- Maintenance team should avoid recommending "too many"[2] layers changing status at one time

GAC

The GAC is responsible for establishing a Maintenance team. The GAC is also responsible for maintaining an archival workgroup and establishing a liaison between the maintenance team and the archival workgroup.
The GAC passes layer status change recommendations to MnGeo.

[1] Average of 70GB per year from 2016-2018.
[2] This is deliberately vague in order to avoid being too prescriptive. It will be up to the team to decide on a reasonable limit each year.

MnGeo

MnGeo should keep a list of layers and their status. This list should be updated when New layers are added, or when the GAC relays a change in status for an existing layer.

MnGeo is also responsible for keeping usage statistics and other layer metadata that the Maintenance team can use for layer status change decisions.

Decision Factors

Usage

Usage is one easily tracked measure of the value of an imagery layer. In FY 2018, 33 layers each had less 0.1% of total usage. 33 other layers had between .1 and .99% of total usage and 10 layers had more than 1% of total usage. This proposal recommends that layers with less than 0.1% usage over the course of a year should be considered "low usage".

Other Factors

When the Maintenance Team meets to consider layers for status changes, it should review the low usage layers against these factors listed below. The maintenance team may decide that one or more of these factors warrants retaining a layer in its current status.

Coverage

13 layers cover the entire state. Many layers cover portions of the state larger than a county. Many others cover one county.

Resolution

Other things being equal, higher resolution has more value than lower resolution.

Time of year (leaf on/off)

It's better to include multiple seasons within the collection, since they meet different user needs. Therefore, the service should retain the most recent *statewide* imagery from summer and the collective "leaf off" seasons (fall, winter, spring).

Historical Significance

Several years in a row are not necessarily valuable, but the first year after or before a long hiatus has higher historical value.

Layer Status

The Following status definitions would be used to implement this sustainability plan. Each time layers are evaluated against the Decision Factors, they have the potential to "move down" amongst these statuses.

Active

Active layers are the most frequently used layers in the service. They are available to all users all the time[3].

[3] All current layers are considered "Active" until this plan is implemented and status changes are evaluated.

Retirement Candidate
These layers have fallen below the threshold required to be considered active but continue to be available in the service. After a predetermined period[4], a candidate layer will transition to an inactive layer.

Inactive
Inactive layers are no longer available in the service. However, if a sponsor comes forward, the layer can be reactivated to the service. Layers will remain in the Inactive state for one year unless a sponsor is found.

During this time users can request a disk copy of the imagery.

Sponsored
A sponsored maintained within the service via an agreement with a sponsor to provide compensation to MnGeo to recover costs.

Retired
A retired layer is a layer no longer available in the MnGeo Image service. Restoring a retired layer to the service is outside the scope of this document.

Maintenance Plan

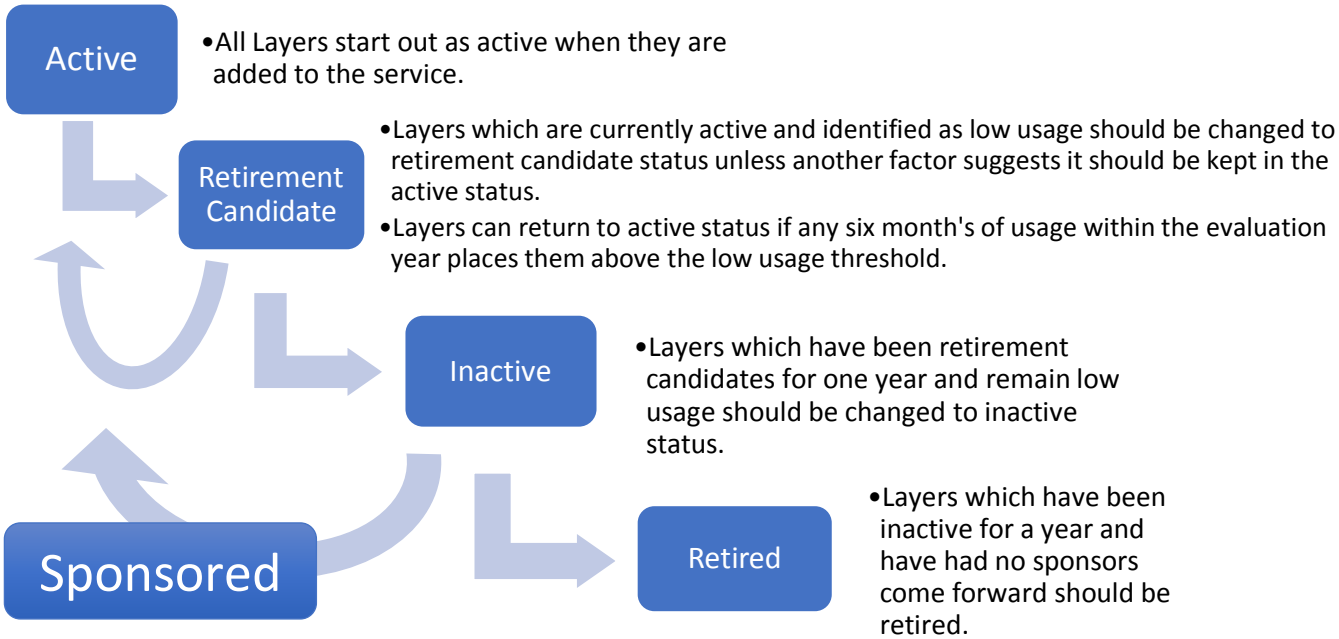
This Maintenance Team should have annual meetings at a minimum, preferably in the first quarter of the calendar year, to determine which layers should change status (progressing through steps from active to retired as necessary). The maintenance team should be merged with the ad-hoc team that occasionally gathers to evaluate and recommend changes to the Composite Image Service. The maintenance team should also consider this plan's effectiveness and recommend changes to the GAC on layer status and decision factors as necessary.

Status Changes
The maintenance team should change layer status as follows:

- Layers which have been retirement candidates for six months and are no longer low usage, should be changed to active status.

- An organization which wishes to keep a retirement candidate or inactive layer in the service should negotiate directly with MnGeo to get the layers status changed to "sponsored".

[4] Initially, six months to one year, depending on the recommendations from the team and the GAC.


Active
•All Layers start out as active when they are added to the service.
Retirement Candidate
•Layers which are currently active and identified as low usage should be changed to retirement candidate status unless another factor suggests it should be kept in the active status.
•Layers can return to active status if any six month's of usage within the evaluation year places them above the low usage threshold.
Inactive
•Layers which have been retirement candidates for one year and remain low usage should be changed to inactive status.
Sponsored
Retired
•Layers which have been inactive for a year and have had no sponsors come forward should be retired.

Agenda Item 6. Surveyor Seat on the GAC

A proposal has been made to consider having a permanent seat on the GAC to represent surveyors. This is a good opportunity for that specific discussion as well as a broader discussion about GAC seats and the interests they represent or could represent. Below for reference is the statute that creates the GAC with the representation portion in bold.

2014 Minnesota Statutes 16E.30, subd. 8

Subd. 8.**Geospatial Advisory Council created.**
(a) The chief information officer must utilize a governance structure that includes an advisory council to provide recommendations for improving the operations and management of geospatial technology within state government and also on issues of importance to users of geospatial technology throughout the state.

(b) The Geospatial Advisory Council must advise the Minnesota Geospatial Information Office regarding the improvement of services statewide through the coordinated, affordable, reliable, and effective use of geospatial technology. The chief information officer must appoint the members of the council. **The members must represent a cross-section of organizations including counties, cities, universities, business, nonprofit organizations, federal agencies, tribal governments, and state agencies.** In addition, the chief geospatial information officer must be a nonvoting member.

(c) Members of the Geospatial Advisory Council must be recommended by a process that ensures that each member is designated to represent a clearly identified agency or interested party category. Members of the Geospatial Advisory Council must be selected in compliance with the state's open appointment process. Members shall serve a term of two years.

(d) The Minnesota Geospatial Information Office must provide administrative support for the Geospatial Advisory Council.

Agenda Item 9. Geospatial Priorities Survey Results and 2019 GAC Priorities

Why Create Priorities?

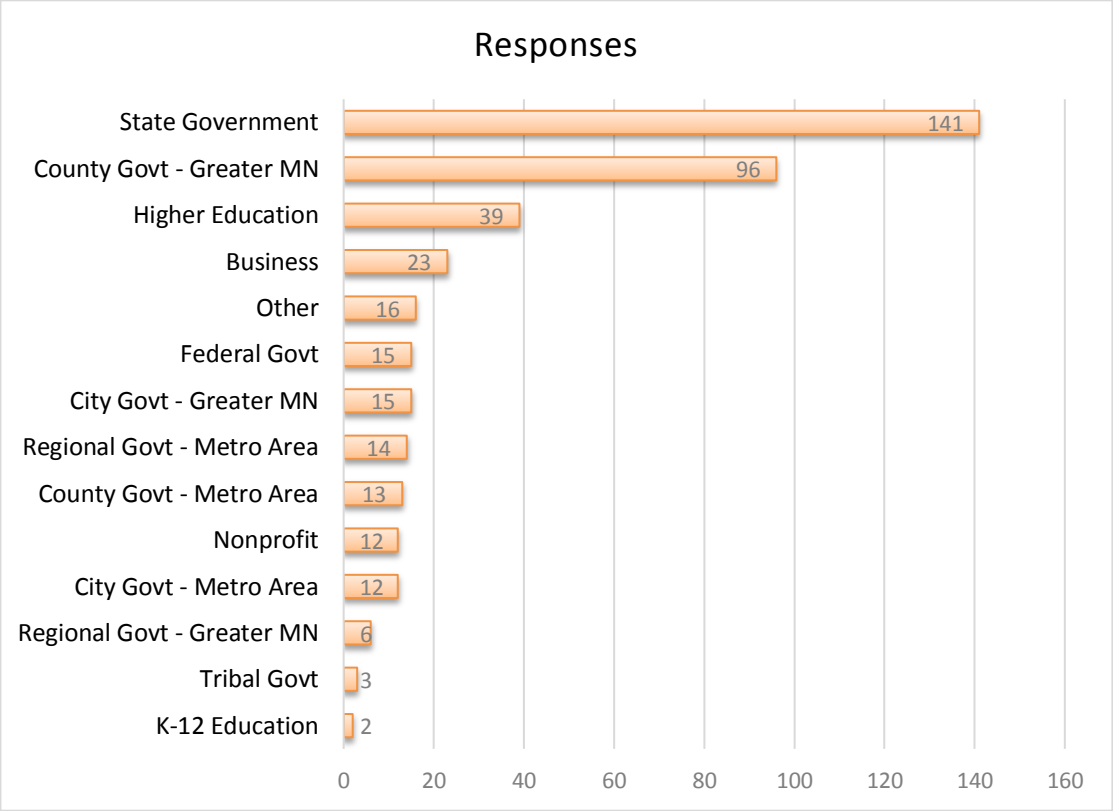
1. To create a voice for the MN geospatial community
2. To direct work plans of the GAC and its committees
3. To recommend to MnGeo
4. To allow other organizations to compare priorities and align efforts
5. To inform outreach and policy related efforts
6. Having clear direction helps motivate people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

Prioritization Process

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

Survey Responses

- 407 total responses
- 58% from two sectors



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 very similar weighted and unweighted.

Project/Initiative Short Name	Project/Initiative Long Name	Score Weighted by Sector	Score Not Weighted
Free and Open Data	All public geospatial data in MN to be free and open to everyone	2.191	2.108
Imagery Service Maintained	Assurance that the current MnGeo imagery service will be maintained and improved via a sustainable funding model, including policies on what layers are added and removed over time	2.082	2.135
Updated & Aligned Boundary Data	Updated and aligned boundary data from authoritative sources	1.943	1.985
LiDAR and Derived Products	New LiDAR data acquisition across Minnesota for use in developing new derived products guided by committee developed standards	1.916	1.958
Hydro-DEMs	Accurate hydro-DEMs (hDEM) that serve modern flood modeling and hydro-terrain analysis tools, and the development of more accurate watercourses and watersheds	1.907	1.926
Parcel Data	Statewide publicly available parcel data	1.847	1.813
Archiving	A policy and procedures for archiving and preserving historical geospatial data	1.609	1.543
Road Centerline Data	Statewide publicly available road centerline data (including a data standard)	1.602	1.708
MN Basemap Service	MN focused basemap services	1.598	1.663
Address Points Data	Statewide publicly available address points data	1.407	1.477
EM Damage Assessment Standard	An emergency management damage assessment data standard to provide an accepted specification to support a request for State or Federal assistance after a disaster	1.321	1.351
Geocoding Service	A statewide publicly available geocoding service	1.296	1.378
Parks and Trails Standard	A parks and trails data standard	1.265	1.287
Imagery Service Improvements	Improvements to the MnGeo imagery service capabilities, such as Web Mercator, tiling, downloading options, and increased refresh frequency	0.845	0.814

Results by Sector

Project Short Name	Score Weighted by Sector	Business	City Greater MN	City Metro	County Greater MN	County Metro	K-12 Education	Federal Govt	Higher Education	Nonprofit	Regional Govt Greater MN	Regional Govt Metro	State Govt	Tribal Govt
Free and Open Data	2.191	2.22	1.73	1.92	1.84	1.92	3.00	1.87	2.54	2.42	1.67	2.57	2.15	2.67
Imagery Service Maintained	2.082	2.04	1.93	1.25	2.01	1.85	1.00	2.47	2.26	2.08	2.00	2.57	2.23	2.67
Updated & Aligned Boundary Data	1.943	1.87	1.40	1.17	1.75	1.69	2.00	2.07	1.90	1.92	2.00	2.43	2.30	2.33
LiDAR and Derived Products	1.916	1.74	1.80	1.33	2.02	2.23	1.00	2.47	2.18	2.08	2.00	1.29	1.94	2.00
Hydro-DEMs	1.907	1.39	1.60	1.33	2.13	1.92	1.50	2.60	2.15	2.17	2.33	1.64	1.83	1.33
Parcel Data	1.847	1.87	0.73	0.67	1.39	1.15	3.00	2.33	1.97	2.00	2.17	1.93	2.18	1.67
Archiving	1.609	1.09	1.40	1.17	1.35	1.62	2.00	1.67	2.15	1.58	1.17	1.57	1.58	2.00
Road Centerline Data	1.602	1.78	1.13	0.75	1.45	1.69	1.50	1.53	1.74	1.33	2.00	2.07	2.01	1.33
MN Basemap Service	1.598	1.39	1.20	0.83	1.46	1.62	1.50	1.73	1.85	1.50	1.83	1.21	1.93	2.00
Address Points Data	1.407	1.39	0.73	0.83	1.29	1.62	1.50	1.60	1.41	1.75	1.67	1.71	1.67	0.67
EM Damage Assessment Standard	1.321	1.09	2.27	1.33	1.53	1.69	0.50	2.00	0.87	1.08	1.00	0.64	1.29	1.67
Geocoding Service	1.296	1.30	1.13	1.00	1.24	1.23	1.50	1.47	1.44	0.92	1.17	0.93	1.59	1.33
Parks and Trails Standard	1.265	0.91	1.13	1.08	1.11	1.62	0.50	1.13	1.44	1.50	1.33	1.86	1.36	1.33
Imagery Service Improvements	0.845	0.83	0.83	0.87	0.84	0.88	1.00	0.95	0.73	0.84	1.08	0.81	0.79	0.63