Minnesota Geospatial Advisory Council Meeting

May 31, 2017

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)	11:00	15 min
	a. Introductions		
	b. Approval of agenda		
	c. Approval of meeting minutes from 3/22/2017		
2.	Review and accept committee and workgroup summaries (All) Review and accept Parcels and Land Records Committee work plan	11:15	10 min
3.	LiDAR funding & update on emerging hydro-elevation committee (Sjerven, others)	11:25	20 min
4.	MnGeo boundaries project update & possible role of GAC (Ross)	11:45	10 min
5.	Break Networking	11:55	30 min
6.	Sector reports (Freburg, Hackett)	12:25	20 min
7.	Standards update – address points, parcels, etc. (Maas)	12:45	20 min
8.	Emergency management damage assessment data standard – Anderson & Richter	1:05	10 min
9.	Update on MN GAC priority projects and initiatives	1:15	20 min
10.	NSGIC with 2018 GIS/LIS conference (Sjerven)	1:35	10 min
11.	Announcements or other business	1:45	15 min
12.	Adjourn	2:00	

Emergency Preparedness Committee

Report date: May 22, 2017

Prepared by:

Stephen D. Swazee, Sr., Emergency Preparedness Committee (EPC) Chair,
1360 University Avenue West, Suite 455, St. Paul, MN 55104.
651-285-5015 (O), 612-239-6981 (M)

Meetings:

Past Meeting

- **March 9, 2017**, 2-4:30 PM, Room 370, Dakota County Northern Service Center, 1 Mendota Road West, West St. Paul, MN 55118. Featured talk: "Common Operating Picture Planning for the 2018 Super Bowl 52" Presentation/Question and Answer Session: Lt. Col. Guy Konietzko (Ret. MNNG).
- **December 15, 2016**, 2-4:00 PM, Room 520, Dakota County Northern Service Center, 1 Mendota Road West, West St. Paul, MN 55118. Featured talk: "Capabilities of the Minnesota Army National Guard GIS Program" Presentation/Question and Answer Session: Chief Warrant Officer 2 David Bendickson, Geospatial Engineering Technician, Minnesota Army National Guard's 34th Infantry Division.
- **September 9, 2016**, 1-3:00 PM, Meeting Room, Rice Street Library, 1011 Rice St., St Paul, MN 55117. Open discussion on EPC FY 2017 objectives and meeting management.
- **June 9, 2016**, cancelled in lieu of UMGEOCON USNG workshop. See: https://sites.google.com/a/gita.org/umgeocon2016/

Future Meetings

- June 8, 2017, cancelled in lieu of the Upper Midwest USNG Summit, May 23, 2017, La Crosse, Wisconsin. See: https://sites.google.com/a/sharedgeo.org/upper-midwest-usng-summit/.

- September 14, 2017, 2-4:30 PM, topic and location TBA.

- Next Tiger Team/Workgroup Meetings:
    - Damage Assessment Standards Workgroup – May 25, 2017, activity report attached
    - Situational Awareness Sharing Initiative – Pending approval, see below
    - Steering Committee - TBD
    - USNG – May 23, 2017, as part of the USNG Summit

Progress on work plan:

- Quad state USNG summit will be used to begin efforts to organize, focus and standardize nationwide training delivery
- Situational Awareness Sharing Initiative (SASI) Tiger Team Charter and Work Plan has not yet been approved by MN GIO Ross.

- Damage Assessment Standards Workgroup has made significant progress:
  - Approved Purpose Statement
  - Appointed Project Responsibilities:
    - Project Owner – Brad Anderson, City of Moorhead
    - Project Champion – Todd Lusk, Dakota County
    - Co–Chairs – Cory Richter, City of Blaine & Todd Lusk, Dakota County
  - Researched and gathered NSGIC resources for data standards and best practices
  - Communicated with police, fire, building codes, and emergency management staff and collected paper forms used by these agencies that are based off of the HSEM Damage Assessment Report, and definitions.
  - Documented three known Damage Assessment data schemas currently in use in Minnesota. The excel spreadsheet is based on the one used by the Next Generation 911 Standards Workgroup, and will be used to help map out the (proposed) Minnesota Damage Assessment standards.
    - The proposed Minnesota data schema is being added to the spreadsheet. Then Workgroup members will begin sharing the document.
  - The Group feels it is on track for the year, and has made good progress. After three meetings it was agreed the next step is to create the first draft of the Minnesota data schema and discuss within the Group before distributing to a wider audience for review.
  - There are only a couple of impediments, but the group is working through them with no problems. City resources in Waseca and Blaine are being used for the conference call system, Meeting Burner for screen sharing, and the online meeting scheduling website, doodle.com for workgroup meetings.
  - Dakota County has offered to host a SharePoint site to store the workgroup information. Site access and layout are currently being fleshed out.
  - The Damage Assessment Standards Workgroup has submitted an Abstract for a Panel Discussion in the fall at the Annual Minnesota GIS\LIS Conference.
  Panelists include:
    - Brad Anderson, GIS Manager, City of Moorhead
    - Cory Richter, GIS Coordinator, City of Blaine
    - John Mackiewicz, IS Group Manager, Principal, WSB & Associates
    - Matt Taraldsen, Solutions Engineer, ESRI
    - Darryl Holman, Resource Information Specialist, US Forest Service

Additional comments:
As previously noted in February 24, 2016, lack of administrative support issue remains.
Damage Assessment Standards Workgroup
- The Workgroup members are talking with their respective Emergency Managers, Fire Department personnel, and Building Codes officials to learn what specific data would be valuable for them to collect.
- ESRI has good information on how their Damage Assessment template was developed through an ESRI blog:
  - https://blogs.esri.com/esri/arcgis/2012/10/02/whats-new-in-the-public-safety-damage-assessment-template/
- The Workgroup is looking to present at the Association of Minnesota Emergency Managers (AMEM) conference this September in Breezy Point, MN.
- The Workgroup is initially focusing on the data needs for the first 'windshield' damage assessment collection. The needs for the second and third inspections will be addressed in future meetings.

Outreach Committee

Report date: May 17, 2017

Prepared by:
Kari Geurts, kari.geurts@state.mn.us
Len Kne, lenkne@umn.edu
Geoff Maas, geoffrey.maas@metc.state.mn.us

Meetings:
The Committee has not met during the previous quarter, although a sub-group working on the Open Data has made some progress on an Open Data Survey for cities.

Progress on work plan:
- o Activities: The committee had a few informal online meetings to discuss committee activities the group would want to work on.
- o Accomplishments:
  - ▪ Evaluated the use of the GAC YAK newsletter as another form of outreach for the committee
  - ▪ Started collecting GIS success stories to promote the value of GIS to a wide range of stakeholders
- o Progress toward achieving proposed goals:
  - ▪ 25 counties are now free and open, 12 of which have adopted resolutions. Several counties are engaged in active review of the benefits of open data. Otter Tail County (data open since 2009) is considering moving toward a formal resolution this year (similar to the Clay County model).
  - ▪ Geoff is presenting to both the SC MN GIS group (Mankato) and SE MN GIS group (Red Wing) in late June on open data (and standards), both are areas not currently open (mostly).
  - ▪ Draft survey written for MN Cities is nearly ready. Survey will go out during June/July
  - ▪ The Outreach Committee will be proposing a presentation to the Association of Minnesota Counties conference this December, abstract is due June 16, Geoff is heading up that submittal on behalf of the group.
- o Problems or impediments: None
- o Required assistance: None

Additional comments:
Need to look at geospatial advocacy initiative going on at WLIA. Great information and templates for our efforts.
See https://www.wlia.org/about/legislative-whitepapers/

Parcels and Land Records Committee

Report date:
05/18/2017

Prepared by:
George Meyer

Meetings:

May 9, 2017

Progress on work plan:

Several items were addressed at the last meeting. The Committee charter and work plan were updated for 2017. In addition, several items were laid out for a 2018 work plan. The latest version of the parcel standards was reviewed, and Geoff Maas will be continuing to present it to local groups around the state. The standard will be reviewed at the next scheduled meeting sometime in late July, where any new items will be addressed. Barring major revisions, a goal will be to work with the Standards Committee to finalize the standards before the GIS/LIS annual conference. The 2017 work plan has been amended to place the majority focus on outreach and education to counties and data holders of the advantages of open data sharing and to encourage such activity. With the target audience being the non-GIS professionals. A secondary goal will also be to assemble a list of the agencies opposed to sharing, and the major items those data holders identify as reasons/obstacles for deciding not to share; so those concerns can be addressed in future conversations with them.

Additional comments:

Standards Committee

Report Date: May 15, 2017

Prepared By: Geoff Maas, *geoffrey.maas@metc.state.mn.us*, 651.602.1638
MetroGIS Coordinator, Metropolitan Council
Chair, Standards Committee

Meetings: Last formal meeting occurred (as phone conference) on August 31, 2016
No formal meetings since last report to the GAC on March 22, 2017
Chair has been in contact with membership via email

A formal meeting of the Committee is planned for **Wednesday, June 21, 2017**

Past meeting minutes are available here: *http://www.mngeo.state.mn.us/committee/standards/*

Progress on work plan:

A) Work Plan Document

The original Standards Committee Work Plan document was developed in August 2016 and approved electronically in September 2016. The Work Plan document is being modified based on new incoming work for review and approval at the forthcoming June 21, 2017 meeting.

B) New Membership

A call for membership was sent out to the professional community in late April 2017. The following individuals expressed their interest in becoming members of the Standards Committee:

- Heather Albrecht, City of Maple Grove
- Jessica Fendos, Ramsey County
- Jared Haas, City of Shoreview
- Lisa Hanni, Goodhue County
- Philip Nagel, City of Waseca
- John Nerge, City of Brooklyn Park
- Chad Riley, Carver County

The Standards Committee is grateful for their interest and welcomes all interested parties from our professional community to engage with the Standards Committee and its work;

C) Address Point Standard Development

Forthcoming in summer 2017, a Statewide Address Point Standard will be published for review and comment by the statewide stakeholder community. This proposed standard represents a merging of two existing address point specification efforts, namely:

- The **Metro Address Point Standard,** originating in work started at the metro level in 2004 and subsequently in use and refinement by participating metro stakeholder partners since 2010; this data standard contains a strong imprint of the Federal Geographic Data Committee's (FGDC) United States Thoroughfare, Landmark, and Postal Address Data Standard.

- The **NextGen9-1-1 Address Point Standard,** originating in work started by MnGeo, Department of Public Safety and the Emergency Communications Network in 2015. The effort was tasked with developing a statewide address point for 911 uses and applications. This data standard contains a strong imprint of the National Emergency Number Association (NENA) draft address standard.

The proposed **Address Point Standard** is a "hybrid merging" of these two specifications and is intended to meet the core needs for address point data and provide an efficient means for the data producer and consumer communities to work with address point data in the state.

MetroGIS and NextGen9-1-1 stakeholders are presently preparing materials to help facilitate the review of the standard, this includes:

- Preparing a sample dataset and geodatabase (.gdb) of data in the proposed standard for download;

- Preparing an orientation document, FAQ document and other related materials to help inform the stakeholder community about the standard's purpose, use and applicability;

The Standards Committee will review the Address Point Standard and the supplemental material to be published with it at their June 21 meeting. Upon review and approval by the Committee, a formal 90-day review period by the entire statewide stakeholder community will begin. Comments on the standard will be collected during this 90-days and published at its conclusion and the Committee will convene again to determine if additional changes need to be made or the standard can be approved by the Committee and forwarded to the Geospatial Advisory Council for approval.

D) Parcel Data Transfer Standard (Progress to Date)

Recap of events to date: A proposed Parcel Data Transfer Standard was published in October 2016 for a ninety (90) day public review period. Over 450 agencies and individuals were contacted, including county GIS staff, survey departments, state agency stakeholders, local government interests, regional agencies and the Minnesota Association of Assessing Officers. In addition to the proposed Parcel Data Transfer Standard document, a detailed 7-page FAQ resource was prepared and a sample data set in the proposed standard (one Congressional township in Anoka County) was provided to prospective reviewers and data consumers. The review period for the Parcel Data Transfer Standard closed on January 20, 2017.

Committee Chair Geoff Maas has prepared a report collecting these comments into an Alignment Report—aligning the comment with the attribute or concern it relates to.

With the large number of comments received and the significant changes to the proposed Parcel Data Transfer Standard that these comments would engender, Chair Maas conducted two additional in-person facilitation sessions with regional GIS groups to solicit and document additional feedback, these included:

- March 14, 2017 – Duluth, Arrowhead Regional GIS Group
- April 5, 2017 – Fergus Falls, Pine-To-Prairie Regional GIS Group

Resulting from these sessions, edits to the Alignment Document were made and an Excel Spreadsheet was prepared.

Key modifications included:

- Changes to the names of several attributes, this was done so the standard contains and uses terminology in use in the profession of survey and assessment;

- Changes to the order in which the attributes appear, this was done to assemble related attributes together;

- Addition of attributes and domain values containing data related to the Public Land Survey System;

Additional in-person listening and input session on the Parcel Data Transfer Standard will be held here:

- June 20, 2017 – Red Wing, South East Minnesota GIS Users Group
- June 22, 2017 – Mankato, South Central Minnesota GIS Users Group

At these sessions in late June, Maas will provide information about the forthcoming Address Point Standard as well.

The Standards Committee is working closely with the Parcels and Land Records Committee (PLRC) on the advancement and refinement of the Parcel Data Transfer Standard. Maas will provide results from the June 20 and 22 sessions to the Parcels and Land Records Committee for their inclusion and consideration in further advancing the standard.

All materials relevant to the current standard were submitted to MnGeo to be posted on the Standards Committee website on March 9, 2017:
http://www.mngeo.state.mn.us/committee/standards/parcel_attrib/parcel_attrib.html

E) Retooling the Standards Development and Review Process
During and after the review/comment period of the Parcel Data Transfer Standard it was revealed that more clarity was needed in the steps for the process of review and approval of data standards in the state. Chair Maas is preparing a revision proposal for the development, review and approval of standards for the consideration of the Committee at its June 21st meeting.

F) Additional Committee Work Activity
A 'glossary of terms' remains in development by Chair Maas for eventual review, revision and publication by the Standards Committee. If possible, a first draft of core terminology will be available at the upcoming June 21, 2017 meeting for the formal review of the Committee.

Additional comments:

Minnesota Geospatial Advisory Council
Committee/Workgroup Work Plan

Parcels and Land Records

Work Plan date: 04/12/2017

Chair:

George Meyer
Lead Developer
Otter Tail County GIS Dept.
Office# 218-998-8310
Direct# 218-998-8313
gmeyer@co.ottertail.mn.us

Link to committee/workgroup charter:
http://www.mngeo.state.mn.us/committee/cadastral/parcels_and_land_records_committee_charter.pdf

(unchanged from previous, at this time)

Accomplishments from 2016

Continued work with Standards Committee with review and comments on the proposed Data Transfer Standard

Work Plan for 2017

Planned activities and deliverables:
- Joint Meeting 04/05/2017 with Standards Committee as part of an overall outreach program

- Return to more regularly scheduled meetings. Original standard was bi-monthly.

- Work on developing script/model/methods to assist data holders to submit data in new standard (once approved)

- Determine next data sets to aggregate after parcels, looking at PLS data first

- Discuss/propose normalizing field schemas for related aggregated data sets. "standards across standards"

Roles and responsibilities:

Current member list:

David Brandt	David.Brandt@co.washington.mn.us	Washington County	Parcels and Land Records Committee member
Lisa Hanni	lisa.hanni@co.goodhue.mn.us	Goodhue County	Parcels and Land Records Committee member
Peter Jenkins	Peter.Jenkins@state.mn.us	MnDOT	Parcels and Land Records Committee member
Geoffrey Maas	geoffrey.maas@metc.state.mn.us	MetroGIS	Standards Committee, chair (also member of Outreach Committee)
Chad Martini	Chad.Martini@co.stearns.mn.us	Stearns County	Parcels and Land Records Committee member
George Meyer	gmeyer@co.ottertail.mn.us	Otter Tail County	Parcels and Land Records Committee (chair) + Standards Committee member
Jane Mueller	jane.mueller@co.beltrami.mn.us	Beltrami County	Parcels and Land Records Committee member
Bart Richardson	bart.richardson@state.mn.us	MnDNR	Parcels and Land Records Committee (former chair) + Standards Committee member
Dan Ross	Dan.Ross@state.mn.us	MnGeo	GIO, participates in all Committee meetings;
Mark Sloan	Mark.Sloan@co.clay.mn.us	Clay County	Parcels and Land Records Committee member
Jeff Storlie	storliej@co.st-louis.mn.us	St. Louis County	Parcels and Land Records Committee member
Ryan Stovern	stovernr@stlouiscountymn.gov	St. Louis County	Parcels and Land Records Committee member
Annette Theroux	atheroux@prowestgis.com	Pro-West	Parcels and Land Records Committee member
Mark Volz	MarkVolz@co.lyon.mn.us	Lyon County	Parcels and Land Records Committee member
Jen Ward	jward@prowestgis.com	Pro-West	Parcels and Land Records Committee member
Hal Watson	hal.watson@state.mn.us	MnDNR	Parcels and Land Records Committee member
Ron Wencl	rwencl@usgs.gov	USGS	Standards Committee member + Parcels and Land Records Committee member
Matt Koukol	matt.koukol@co.ramsey.mn.us	Ramsey County	Parcels and Land Records Committee member

Resources:

Resources allocated from previous work plan, including Esri licensing and software are sufficient

Committee/workgroup needs:

Future needs will include working individual(s) with some scripting knowledge once the standard becomes finalized, in order to assist in creating the tools needed to assist data holders to submit their data

Dependencies and interrelationships:

Continued interaction between the Standards Committee is needed to keep information up to date. In addition, communication between other committees proposing data aggregation is needed to reduce data duplication, and to coordinate standards.

Risks:

Committee must retain an active schedule. Large gaps in continuity and meeting times can result in lost information, and tasks.

Additional Comments:

Date approved by the Geospatial Advisory Council:

Agenda Item 9. GAC Priority Projects and Initiatives

GAC Rank	Project or Initiative Description	Status	Project Owner	Champ
1	**All public geospatial data in MN is free and open to everyone**	**Active**	Len Kne	Ross
2	**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**	**Active**	Mike Dolbow	Ross
3	**Development of an active LiDAR Committee and additional support to move us forward toward updated LiDAR data and related standards**	**Proposed**	Sean Vaughn?	
4	**Improvements to MnGeo imagery service capabilities, such as HTTPS, tiling, downloading options, and increased refresh frequency**	**Active**	Mike Dolbow	Ross
5	**Statewide publicly available parcel data (including a data standard)**	**Active**	George Meyer	
6	**Statewide publicly available address points data (including a data standard)**	**Active**	Adam Iten	Ross
7	**Statewide publicly available street centerline data (including a data standard)**	**Active**	Adam Iten	Ross
8	**An emergency management damage assessment data standard for rapid, post-event damage assessment GPS field collection**	**Active**	Brad Anderson	Lusk
9	**MN-focused basemap services**	**Active**	Sonia Dickerson	Ross
10	**Statewide publicly available Geocoding service**	**Active**	Mike Dolbow	Ross
11	**Parks and Trails Data Standard**	**Active**	Jim Bunning	Ross

Parcels, Street Centerline and Address Point Collection

Project Goal: To collect, standardize and aggregate county parcel, street centerline and address point data into statewide datasets for use by NG9-1-1 as well as for other state agency purposes. MnGeo asks for parcel, centerline and address point data in a single request to counties.

Project Status:
Parcels
The parcels project has been underway for several years. MnGeo has collected parcels for 86 counties to date *(see full-size map). There is no data available for the Red Lake tribal nation.* The MN.IT @ DNR team has been able to create a standardized and aggregated file for internal state use.

The Parcels and Land Records Committee and the Standards Committee are proceeding with standards approval for an updated version of the DCDATS proposed standard in the interim.

Anticipated Completion and Milestones: The data has been standardized and aggregated for internal state agency use. Data updates from county partners occur every 6 months. When new data is received it is integrated into the statewide file. The state team is working on creating a web map service of the data for agencies to use.

Project Funding: There are no dedicated funds for this project.
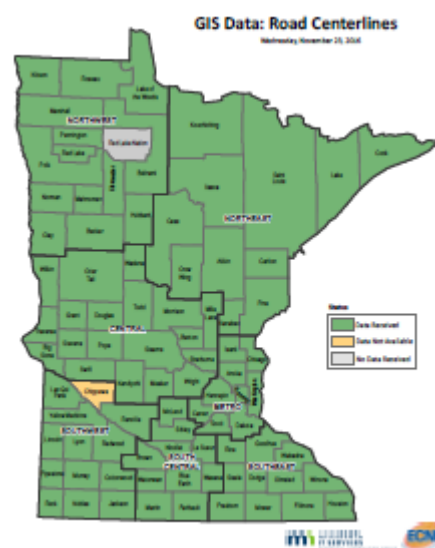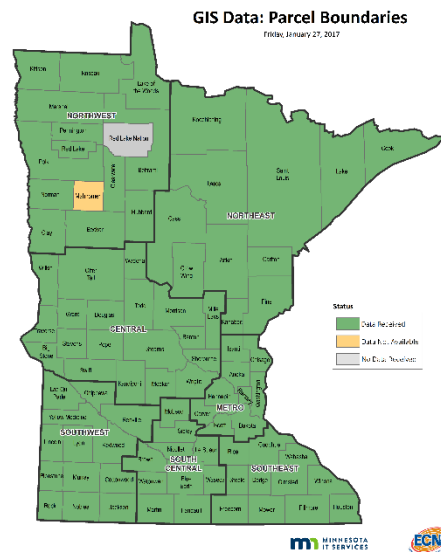
Project Issues, Concerns, and Risks: Project success is dependent on counties developing and sharing both spatial and attribute data. Some counties have been reluctant to openly share their data, data content and quality varies between counties (and in some cases within counties), no accepted standard for parcel data in MN currently exists (although we are working toward the draft standard), and time/personnel are needed to complete collection, standardization and aggregation processes. **While the data will be available to government agencies, many counties have asked the state not to share parcels obtained for their counties. With that approach, it is likely we will never achieve a statewide shared parcel layer.**

Project Contact: Dan Ross (Executive Sponsor)

Road Centerlines

Project Goal: Create an authoritative, multi-purpose, public-domain centerline spatial dataset representing the entire state of Minnesota that can be relied upon to accurately represent (to the best extent possible) the actual roadway assets of the state. This data layer is to be collaboratively built and maintained to reduce cost, eliminate redundant efforts, facilitate better data capture, provide inter-agency reporting and address a variety of needs from roadway data consumers.

Project Status: The MnDOT LRS tools were put into production internally earlier in 2016. MnDOT has been working to update the data that was frozen during the project. MnGeo is working with MnDOT and has defined data workflows that provide data updates from both non-state road authorities and state agencies to a single repository where the data will be standardized and aggregated. The project team is currently working on implementing a database model within MnGeo that will meet the needs of NG9-1-1 that can be shared with non-state participants; 86 counties have provided data so far *(see full-size map)*. The statewide team has agreed to use the data model created from the NG9-1-1 effort for centerlines which used the Metro Region Centerline Collaborative work as a starting point.

MnGeo will be responsible for bringing data together from MnDOT and from other state and non-state road authorities.

Anticipated Completion and Milestones: The draft of the standard is being vetted by stakeholders and should be available Summer 2017. A secure repository, data model and database has been set up within MnGeo and many counties are currently submitting their centerlines and other NG9-1-1 data to the repository.

Project Funding: DPS and MnGeo are covering staff time and infrastructure to build out the repository, data model, and work flow as the data and system will be used for NG9-1-1.

Project Issues, Concerns and Risks: The project is heavily dependent on requirements, tools, adoption of standards and timelines being provided for the NG9-1-1 project.

Project Contacts: Dan Ross (Executive Sponsor), Adam Iten (Project Manager)

Address Point Collection

Project Goal: Create an authoritative, multi-purpose, public-domain address point dataset representing the entire state of Minnesota that can be relied upon to accurately represent (to the best extent possible) the actual location of addresses in Minnesota. This data layer is to be collaboratively built and maintained to reduce cost, eliminate redundant efforts, facilitate better data capture, provide inter-agency reporting and address a variety of needs from address data consumers.

GIS Data: Address Points
Tuesday, May 02, 2017

Project Status: MnGeo is working with PSAP (Public Safety Answering Points) and local authorities, and the Metropolitan Council to define data standards that will be used to build out a standard statewide dataset. The NG9-1-1 draft standard was compared to the Metro Address Standard. The two teams have come together to create a crosswalk between the two with a goal to come out with a single standard for the state. Some form of address point data has been obtained from 79 counties *(see full-size map)*. Many, however, show gaps in the data where cities are located. MnGeo will continue to work with local partners in the coming months to fill in those gaps.

Anticipated Completion and Milestones: The second draft of the standard and data model are available for review by stakeholders. The data flow and repository to support moving data from partners into the NG9-1-1 repository have been put in place and counties are submitting their data to the repository.

Project Funding: DPS and MnGeo are covering staff time and infrastructure to build out the repository, data model, and work flow as the data and system will be used for NG9-1-1.

Project Issues, Concerns and Risks: The project is heavily dependent on requirements, tools, adoption of standards and timelines being provided for the NG9-1-1 project.

Project Contacts: Dan Ross (Executive Sponsor), Adam Iten (Project Manager)