MetroGIS Coordinating Committee: Meeting Minutes DRAFT

Thursday, November 14, 2019, 1:00 pm – 3:30 pm

Metropolitan Counties Government Center, 2099 University Avenue, St Paul

Attendees:

Ben Verbick, LOGIS
Randy Knippel, Dakota County
Len Kne, U-Spatial, University of Minnesota
Jeff Matson, CURA, University of Minnesota
Nancy Read, Metro Mosquito Control District
Jesse Reinhardt, Hennepin County
Tony Monsour, Scott County
Mark Kotz, Metropolitan Council
Erik Dahl, Environmental Quality Board (chair)
Brad Henry, MN2050
Marcia Broman, MESB
Tami Maddio, City of Eagan
Duane Anderson, City of Woodbury
Andra Mathews, MnDOT
Dan Tinklenberg, SRF Consulting
Dan Ross, MnGeo
David Brandt, Washington County

Guests:

Pete Wiringa, U-Spatial, University of Minnesota
Matt McGuire, Metropolitan Council
Todd Graham, Metropolitan Council

Staff:

Geoff Maas, MetroGIS Coordinator

Meeting Minutes (Draft)

1) Call to Order

Vice Chair Brandt called the meeting to order at 1:05 p.m.;

2) Approve Today's Meeting Agenda

Motion to approve, Mathews; Second: Verbick; unanimous approval by vote, motion carries;

3) Approve Minutes from last meeting on August 8, 2019 meeting

Motion to approve, Kotz; Second, Mathews; unanimous approval by vote, motion carries;

4) MetroGIS Policy Board Update

Coordinator Maas indicated that the next meeting of the Policy Board will be held on Wednesday, April 29, 2020 at 7 pm here at the Metro County Government Center. The Policy Board meeting provides a direct forum with our elected leadership once a year and encouraged members to bring forward any topics or issues they would like to present.

5) Coordinating Committee Membership
The Committee has received two letters of interest from applicants to the fill the Coordinating Committee's two new city seats, these were received from Duane Anderson, City of Woodbury and Tami Maddio, City of Eagan The Coordinating Committee were provided the letters with the meeting agenda prior to the meeting and vote to accept both candidates.

Motion to approve: M. Kotz; Second: N. Read; unanimous approval by vote, motion carries; Coordinator Maas welcomed both new members to the Committee.

6) Guest Presentation – Todd Graham, Metropolitan Council
Todd Graham, Principal Forecaster from the Metropolitan Council provided an update and timeline on address data assessment and preparations for Census 2020, updates include the roles of state-county-local governments editing and adding data to the Census's address list during Winter-Spring 2018 and Census notification of partner governments of local results in Early Fall 2019, noting that all Seven Metropolitan Counties had participated often with the same staff members working on both the LUCA (Local Update of Census Addresses) and the NCP New Construction Addresses Program. In the Twin Cities Metro, nearly 900 units were permitted in 2009 *and* not counted in the 2010 Census; Metropolitan Council forecasters know of an additional 400+ units that were likely not counted in the 2010 Census. With the close-out of LUCA, Census Bureau Geography will instruct local agencies delete or destroy all USC 13 protected files received from Census Bureau**.** Graham pointed out that **L**UCA and NCP participants should retain all address lists that did not come from Census Bureau itself, these include address databases as of 2018/2019 or parcels data used for providing information to the Census, he stressed that this retained data will be essential to any Count Question protests that you may need to initiate in 2022**.** Historically, the post-census Count Question Resolution program has a high bar and high burden of proof. Graham indicated that to challenge the count and prevail, a local agency must be able to demonstrate the Census had errors in its processing. Counties and State agencies can point to addresses data provided to challenge housing counts and can leverage administrative data to estimate population in that housing data. He encouraged anyone in the group to contact him or demographic and forecasting staff at the Metropolitan Council if they had additional questions.

7) Geospatial Advisory Council Update
GAC Vice Chair and MetroGIS representative to the GAC, David Brandt gave a short update on the role of the GAC, its recent work and its past and emerging priorities and a brief run down of the various committees and work groups of the GAC and what they were working on.

He outlined the current priorities from its 2019 prioritization (Table 1 on following page) and the results from the recent GAC priority survey (which was available until November 8th) to determine which priorities were most important to the stakeholder community during 2020.

Table 1: 2019 Minnesota Geospatial Advisory Council Priorities

GAC Rank	Project or Initiative Name
1	All public geospatial data in MN to be free and open to everyone
2	Assurance that the MnGeo imagery service will be maintained and improved via a sustainable funding model, including policies on what layers are added and removed over time. Evaluate improvements such as Web Mercator, tiling, downloading options, and increased refresh frequency.
3	Updated and aligned boundary data from authoritative sources
4	Statewide publicly available parcel data
5	A policy and procedures for archiving and preserving historical geospatial data
6	Statewide publicly available road centerline data (including a data standard)
7	New LiDAR data acquisition across Minnesota for use in developing new derived products guided by committee developed standards
8	Statewide publicly available address points data
9	MN focused basemap services
10	A parks and trails data standard
11	An emergency management damage assessment data standard to provide an accepted specification to support a request for State or Federal assistance after a disaster
12	Accurate hydro-DEMs (hDEM) that serve modern flood modeling and hydro-terrain analysis tools, and the development of more accurate watercourses and watersheds

Key priorities from the survey included and emphasis on the wider availability of free and open parcel, address point and road centerline data, LiDAR resources availability, a statewide standard for parks and trails and data standards related to emergency management. The GAC will be meeting in early December in St. Paul to refine and prioritize its list for 2020 based on stakeholder input received.

8) New Project Proposals

***8a)* Current MetroGIS Work Plan Projects – Brief Updates**

As per the decision of the Committee at its 8/8/19 meeting, the 2020 Work Plan will carry 'Maintenance of Regional Datasets and Resources' as its top on-going priority. Maas provided a cursory overview of recent changes in status of the regional datasets.

Metro Parcel Dataset. Continues to be updated quarterly, Maas indicated that (on the whole) the data is good, however, there is some inconsistency month to month with some selected datasets. He encouraged county partners to continue to run internal validation checks and to have their staff populate the Attributes Document which is available with the dataset on the Commons. This document affords the county partners to document changes, anomalies or gaps which may be taking place in their quarterly delivery of the parcel data.

Metro Road Centerline Dataset. Scripts and resources enable this dataset to be updated nightly, however the current goal of the partners is to continue to work toward a once-a-month update of the data. The only significant change for the road centerlines is the anticipated transition of the data from the existing MRCC v. 1.7 schema to the recently adopted GAC Road

Centerline Standard (which is essentially the MRCC v. 1.7 with seven additional attributes, mostly for the uses and needs of NextGen9-1-1). The metro partners are working to have the first version of the dataset delivered in the GAC Road Centerline format in January 2020.

Metro Address Point Dataset. Scripts and resources enable this dataset to be updated nightly, however the current goal of the partners is to continue to work toward a once-a-month update of the data. The only significant change for the address point dataset is the addition of Sherburne County's data during summer 2019, bringing this dataset up to including the entire 10 county region.

Metro Park and Trail Dataset. As per the decision of the Park and Trail Work Team, the goal for updates for this dataset is twice per year, generally in January and July. At present the January 2019 version is available on the Commons, as two counties were unable to update their data for the July 2019 update. Future work with this dataset entails understanding additional business needs from the user community, populating additional attributes and potentially more frequent updates throughout the year.

8b) Current MetroGIS Work Plan Projects – Brief Updates

8b.1) 9-1-1 Regional Data Viewer

Progress on the 9-1-1 Data Viewer application continues. The last few months have seen the MESB and Metropolitan Council honing the layout and presentation of the application. Refinements and revisions performed by MESB/MetCouncil have been going on since summer including how to best breakdown and present the content, the overall design, addition of tools, and representation of features. Potentially to two (or more) versions depending on the needs we encounter from stakeholder feedback might be presented during the stakeholder review period anticipated this fall. Outreach for user experience testing is anticipated in Winter 2019. The stakeholders are to be specifically contacted during the various phases of prototyping of the proposed viewer.

8b.2) Metro Stormwater Geodata Project (MSWGP)

The MSWGP has been very active during 2019 with a steering committee meeting on August 27 in Bloomington, two Structures Team meetings and several technical team and numerous small group meeting to refine the prototype data standard. The Steering Team originally selected twelve (12) pilot sites around the metro, however given the complexity and variation of the data, a subset of two of those sites—incorporating parts of Bloomington and Eagan—was chosen for the pilot study site. At its October 30, 2019 meeting, the MSWGP Structures Team made the final revisions of the dataset and declared it 'good enough to test'. The project will now focus on creating the pilot dataset, supporting documentation and prepare for a formal stakeholder outreach effort in early 2020. Maas indicated that all project materials are on the MSWGP project page on www.metrogis.org and encouraged the group if they had questions about the effort to contact him.

8b.3) Statewide Road Centerline Dataset

With the GAC approving the state road centerline standard (the GAC RCLS, based upon the metro-developed MRCC schema) on May 29, 2019, the geospatial community now has a reliable and peer-reviewed data standard to work with to federate road centerline data. At the Metro Tech Session on July 17, 2019, the Metro Counties agreed to being transition from the MRCC v.1.7 to the GAC RCLS later in 2019. The Metropolitan Council intends to provide a validation script/tool by mid-September and Counties endeavor to deliver test data in the GAC RCLS format by December 2019 and transition to the metro regional datasets being available in the GAC RCLS format by late January 2020. Maas displayed an 'equivalency' chart comparting the MRCC v. 1.7 to the GAC RCLS and showing how the GAC RCLS is essentially MRCC 1.7 with a few extra attributes added.

8b.4) Parcel Data Best Practices Guide

The Parcel Data Best Practices Guide remains in development, however, has been put on hold. This guide is intended to contain a collection of illustrated examples, terminology and case studies for how data creators and data producers can best understand, create, use and interpret the geospatial parcel data available from the counties producing it in Minnesota. The guide will be aligned to the materials in the Parcel Data Standard as adopted by the Geospatial Advisory Council and when a first draft is published it will be offered for edit, critique and review by the GAC's Parcel and Land Records Committee and the county data producers across the state.

8b.5) Addressing Resource Guide

Maas indicated he is still working on the research and compilation of case examples and resources for the forthcoming guide, the intention of this document is to serve as a resource for both geospatial and non-geospatial professionals. The main purpose of the guide is to help the data producer and user community understand the origins, usage, terminology, and importance of addressing. The project has been placed on hold for the indefinite future.

8b.6) Metro Park and Trail Dataset and Data Standard

Metropolitan Council GIS staff member Jon Hoekenga developed a validation specification based on the Metro-modified NRPA-v. 1.2 metro park and trail schema. The dataset was intended to be updated in July; however, two of the seven counties did not yet submit data. The January 2019 version of the data is available from the Geospatial Commons.

8b.7) External Platform Publishing

With the consistent status of geospatial data being freely and openly available in the metro and the emergence of the standardized regional datasets for roads, address points, parcels and parks and trails, the metro community is working to connect with larger external platforms an encouraging them consume this data. As per the direction of the Seven County GIS Managers, the Metropolitan Council is acting on the region's behalf to publish the regional datasets to ESRI's Community Basemap. Mark Kotz got the Metropolitan Council to approve it having a presence on the ESRI Community Basemap and publish the regional datasets. Maas has been pinging the San Francisco office of Google about once every two months to get them to use the

metro data and Joe Sapletal of Dakota County has been engaged with Open Street Map to assess its potential to take on the metro regional datasets. Future work includes the final deployment of the regional datasets into the ESRI Community Basemap account by the Council on behalf of the region (once the functional class attribute workflow has been solved). The modification of the regional dataset disclaimer language to include 'public domain' was understood to be a removal of a barrier to Google maps being able to consume the data, with that taken care of hopefully our regional datasets will begin appearing into clarify its availability as fully public and continued interaction with external platforms to consume the regional materials.

9) 2020 Work Plan Prioritization

9a) Results of Priority Survey

Maas provided a cursory overview of the results of the MetroGIS project prioritization survey results for 2020 Work Plan planning. Several projects scored higher as being needed or central to business needs of the partners such as the continued work on the stormwater standard, statewide road centerline work and data provisioning for NextGen9-1-1, other projects were ranked lower as they are either nearing completion, do not have identified work teams or owners or are not central to meeting the needs of the community. These results are one of the scoring criteria for the annual Prioritization Exercise in determining priority projects for the coming year.

9a) Prioritization Exercise

Mark Kotz led the group in the annual Project Prioritization Exercise. This exercise helps the group review the list of current, new and pending projects to determine if they have a champion, owner, work team, funding or other resources and if they meet the business needs of the group. The results of the exercise are listed in the table below.

Project/Activity Name	Status	Do in '20	CC Priority	Priority Score
Statewide Road Centerlines & Migration to Standard	Active		1	350
Metro Stormwater Geodata Project (MSWGP)	Active		2	320
Metro Park and Trail Standard and Data	Active		3	297
9-1-1 Regional Data Viewer	Active		4	250
Increased Frequency of Regional Parcel Dataset	Active		5	216
Addressing Resource and Best Practices Guide	On hold		6	162
External Platform Publishing	Active		7	132
Parcel Data Resource and Best Practices Guide	On hold		8	126
GIS Data Provisioning for NextGen9-1-1	Proposed		9	93
Creation of Regional Basemap Services	Remove			38
Ash Tree Detection Pilot for Emerald Ash Borer	Proposed	No	10	20
Metro-level Geocoding Resource	Remove			19

These priority rankings will be used for listing the projects in the 2020 MetroGIS Work Plan.

10) Lightning Round Update

Erik Dahl (Environmental Quality Board): Erik described the forthcoming State Water Plan and that there would be focus group work and outreach to tribes, state and local agencies, etc. with focus on resiliency for climate change and looking to determine 'what our state will look like in 2050 and 2090' if present climatic trends continue.

David Brandt (Washington County): David indicated his county has been experiencing a significant uptick in flooding and is engaging the subsurface tracking system risk analysis to identify parcels with previous septic pollution issues prone to flooding. This is being done as a measure to help minimize impacts in the upcoming spring 2020 flooding season. Brandt indicated that he has been making use of the Metropolitan Council's 'blue spot' map applications which aligns well with known flooding areas in the county. He further indicated that Washington County plans to fly for Pictometry imagery during Spring 2020 (at 6" resolution).

Mark Kotz (Metropolitan Council): Mark described how the flooding and rain events and how we will be surface managing water at a regional level is the new normal and that we in the geospatial field have an opportunity with stormwater and other data to provide value to this management and analysis. Within the Metropolitan Council, Kotz indicated a number of new changes including the retirement of the CIO (David Hinrichs) and transition of other staff in to new positions at the Council. He indicated the Council is going forward with the spring 2020 aerial imagery project, this being crucial to the Council's regional land use tracking and analysis and that to date only Ramsey County has expressed interest in participating in the buy up. This flight will be 1'-foot resolution, leaf off in Spring 2020, assumed to be late March or into April.

Dan Ross (MnGeo): Dan indicated that MnGeo has been focused on a new Statewide LIDAR plan, the document to date is approximately 70 pages and is available on the GAC website (3D Geomatics Committee page) and input on it is being solicited. The plan is for 5 years, the first collections are likely to be in the Metro region and from the metro to Minnesota' border with Iowa. He further indicated that at present the current entire statewide digital footprint of existing imagery is approximately 8 terabytes.

Tony Monsour (Scott County): Tony indicated that the County has been working with their constituent cities and townships with key issues emerging such as getting updated LIDAR and how local jurisdictions are using Google Maps and how GIS staff are fielding calls from residents when Google maps is not accurately reflecting their road, property or data. He further indicated that with the continuous development taking place in Scott County, new developments are usually adding a park, greenspace or wetland preservation component and they are working to identify and improve workflows with developers and other government to be able to capture these data in their GIS.

Dan Tinklenberg (SRF Consulting): Dan described how LIDAR data was a key continual business need for the engineering consulting community. He stated that SRF has added to their GIS staff, to which they now have 4 full-time staff members and that their Plymouth office—with over 300 employees—would be moving to a new site at the intersection of I-394 and Theodore Wirth Parkway.

Jesse Reinhardt (Hennepin County): Jesse described how Hennepin County is ramping up its move toward asset management and is currently assessing the business needs for asset management deployment. Similarly, Hennepin County is working across lines of business to get a better sense of the needs for both oblique and orthophotography across the county, including the assessor's office, public works and other departments with emphasis on meeting shared needs and being able to make data publicly available. Hennepin is also ramping up for Census 2020 taking an active role in outreach and exploring the potential of ArcGIS Hub. Additionally, work in Hennepin County is focused on disparity reduction including examining and understanding indicators such as education, housing and transportation with an emphasis on the spatial components of these conditions. Finally, similar to the other counties and agencies, climate change impacts are also being assessed, and GIS will play a role in that.

Matt McGuire (Metropolitan Council): Internally, the Council is working to advance its deployment of ArcGIS Pro and Portal. Additionally, there has been a significant amount of work to integrate the MRCC centerline data into the established transit systems, large amount of work and coordination to perform that. Finally, metrotransit.org is undergoing a large redesign including its mapping features.

Andra Mathews (MnDOT): Andra is now part of the Environmental Stewardship program and working to coordinate GIS internally at the agency to apply to projects needing environmental review, she is working with a team of about 50, roughly half of which are regular GIS users. Future work includes more web deployment of GIS and better inter-agency coordination is a key goal with this deployment. Andra also indicated the AASTHO GIS-T conference was coming to Minneapolis in 2020 and encouraged more participation and abstracts from the group.

Nancy Read (Metro Mosquito Control District): Nancy indicated they are in the process of updating their catch basin dataset for mosquito treatment purposes, and that the Adopt-A-Drain program (run from Hamline University) has been requesting access to and use of their dataset for their project. MMCD has realized that its data is somewhat out of date and has been connecting with cities for updated data as needed. As per usual, the MMCD is always on the lookout for updated and current aerial imagery, currently making use of what county data is available and examining the potential of incorporating drones and drone-captured imagery for key projects such as new developments.

Duane Anderson (City of Woodbury): Duane indicated that development is taking place at a rapid pace in the City, four-fifths of which is residential development resulting in new parcels, parks, trails, addresses, streets and the data they create is in constant motion in their GIS work. The City is looking to begin its asset management using the Beehive platform and is also looking

to document and manage impervious surfaces, having recently hiring a new Water Resources Engineer. The City is tracking the ramp up to Census 2020, and knows it had some areas left behind in the last (2010) census counts. The City is experiencing a continued growth in population, with current counts at around 72,000 with growth expected to exceed 100,000 as noted in their Comprehensive Plan. Additionally, the city has hired a dedicated Crime Analyst and there is an obvious spatial component to that kind of work.

Jeff Matson (CURA, University of Minnesota): CURA is engaged in work in central and north Minneapolis and have funds allocated for a neighborhood organizer for neighborhood level work. CURA is working with the Minneapolis Park Board with their 10-year plan 'Parks for All' looking at neighborhood level service and connectivity. Additionally, we are working with the State Demographer's Office in the move toward Census 2020. Finally, we will have another group of student workers available, he encouraged members to get in touch if you have an intern spot to fill.

Tami Maddio (City of Eagan): Tami expressed her thanks for being added to the Coordinating Committee and indicated that like other agencies, Eagan is looking to add an Asset Management solution for infrastructure including parks, ponds, fiber optic lines and other features and fixtures. At present the city is using GIS as its asset management solution; but will look to move toward a solution that integrate with GIS as the city has made a large investment in GIS already. They city is also deploying a snowplow event tracker using Survey 123 featuring real-time tracking.

Len Kne (U-Spatial, University of Minnesota): U-Spatial continues to expand its role within the University, specifically its now has 2 FTEs working on Story Maps; and is working to support more Story Map development in the geography and GIS classrooms. The University has hit the milestone of over 11,000 ArcGIS users.

Marcia Broman (MESB): MESB is now a contributing member to the Minnesota Geospatial Commons, we are publishing the PSAP and ESZ service areas for the 10-county metro region and are working with Sherburne County to get their data up to the same level of detail as the other nine service area counties. Brett Forbes in Sherburne has been great to work with in moving that direction. MESB is working to assemble cell tower data as well, 85% of all calls coming to 911 now originate from cellular phones and are associated with the nearest transmitting cell tower. MESB also looks to be working with Federal grant money coming through the State Emergency Communications Network office for validating metro address and centerline data through a 9-1-1 vendor and for developing methodologies for developing and deploying the GIS-based MSAG [geoMSAG].

Randy Knippel (Dakota County): Dakota County is working with a 2 year subscription to the NearMap imagery service and platform, originally they did not cover the entire county, but we were able to have them fly the remainder of the county at a lower resolution and the imagery is proving to be very useful. Additionally, we have access to their older (5-6 years back) imagery data. We will be able to publicly distribute the 6" data after 6 months. Our Assessors Office is

also making extensive use of oblique imagery, and their needs are really the primary driver for what we pursue for imagery contracts. As Chair of the MetroGIS Data Producers Work Group, he reported that this group has been discussing and examining the what the actual costs are internally to provide data for NextGen9-1-1 including creating and maintaining the data itself. Randy is also the GIS liaison to the Metro Emergency Managers Association and reported he has been attending those meetings as well.

Ben Verbick (LOGIS): Ben reported that LOGIS is acquiring an enterprise agreement with ESRI and is seeing the deployment of over 80 seats of GIS to staff across the entire organization. Parcel data is of primary interest to LOGIS as it contains the tax attributes and has many other business applications, he indicated that LOGIS is harvesting the parcel data about weekly from the various counties in its service area.

Brad Henry (MN2050): Brad reported that the MN2050 continues to assess the need for and means to encourage Asset Management in Minnesota. He was encouraged to hear many of the participants around the table mention that Asset Management was an emerging priority for their organizations upcoming work. He also highlighted that the MN2050 initiative was closely examining the Growth & Justice Initiative as to how equity is being reflected in where infrastructure is planned and improved.

11) Next Coordinating Committee Meeting is scheduled for ***Thursday, January 23, 2020***

12) Adjourn
Motion to adjourn: Kotz; second Brandt;
Chair Dahl adjourned the meeting at 3:52 pm
Coordinator Maas thanked everyone for their input and participation


GLAD THAT IS OVER