MetroGIS Coordinating Committee
Meeting Minutes 2015-2017

MetroGIS Coordinating Committee: Meeting Minutes
Thursday, January 22, 2015, 1 PM-3:30 PM
Metro Counties Government Center, 2099 University Avenue, St Paul
Minutes Approved on March 26, 2015

Members Attending:

Dave Brandt, Washington County (Vice Chair)	John Slusarczyk, Anoka County
Mark Kotz, Metropolitan Council	Jim Fritz, Xcel Energy
Nancy Read, Metro Mosquito Control District	Erik Menze, Resource Data, Inc. (alt. for Eric Haugen)
Randy Knippel, Dakota County	Gordy Chinander, Metro Emergency Services Board
Carrie Magnuson, Ramsey-Washington-Metro WSD	Mark Maloney, City of Shoreview, Metro Cities
Dan Ross, MnGeo	Matt Koukol, Ramsey County
Brad Henry, University of Minnesota	Ron Wencl, US Geological Survey
Hal Busch, City of Bloomington/Metro Cities	Pete Henschel, Carver County
David Bitner, db Spatial LLC	Matt Baker, Metropolitan Airports Commission
Sally Wakefield, Non-Profit Representative	

Guests:

Chris Cialek, MnGeo	Tanya Mayer, Metropolitan Council
Jon Hoekenga, Metropolitan Council	Chad Martini, Stearns County
Will Craig, University of Minnesota	Dan Sward, University of Minnesota
John Baer, Washington County	

Members Absent

Gary Swenson, Hennepin County	Len Kne, University of Minnesota
Ben Verbick, LOGIS	Curt Carlson, Northstar MLS
Erik Dahl, EQB (Chair)	Hal Watson, MnDNR
Ben Butzow, MnDOT	Francis Harvey, University of Minnesota
Jeff Matson, CURA/University of Minnesota	

Staff:
Geoff Maas, MetroGIS Coordinator

Item 1) Call to Order:
Vice Chair Brandt called the meeting to order at 1:08 pm

Item 2) Approval of Meeting Agenda
Motion to approve: Kotz; Second: Bitner

Item 3) Approval of Meeting Minutes from September 24 meeting
Motion to approve: Maloney; Second: Brandt

Item 4) 2016 Aerial Imagery Buy-Up Presentation
Chris Cialek (MnGeo) provided an overview of the previous inter-agency imagery collect and an overview of the upcoming proposed project in spring of 2016.

Cialek: There are 2 related efforts underway for imagery. First, we are starting the process to implement a state Master Services Contract (MSC) for aerial imagery and related products that would be in place for about 4-5 years. This entails a broad set of RFP specifications, with a not-to-exceed amount

provided by vendors. We would then pre-approve a set of imagery vendors for those products. The state and other organizations could then use that Master Services Contract to request bids, by implementing work orders, for specific imagery projects over the 4-5 years from those pre-approved vendors, awarding it to the vendor bid of best value. In addition, all imagery is owned by the purchaser and the state, and will be made publicly available.

We plan to use this MSC to issue the first work order for the spring 2016 imagery needed by the Metropolitan Council. We are currently securing the purchase of 1' resolution, 4-band, aerial imagery for the 7-county metropolitan area. We are interested in working with MnGeo to offer the option to interested organizations to leverage that project for buy-up opportunities to 6" or 3-4" if desired. We anticipate that the cost difference between what the Council will pay for 1' resolution and the buy-up would be paid by the requesting organization, which could result in an overall project savings in comparison to a separate contract.

We have just started defining the RFP for the Master Services Contract. This will include 4-band aerial imagery between 3" and 2 ft. and likely include additional products of imagery-based elevation data, stereo and planimetrics. At this time, we do not plan to include LiDAR or oblique in the MSC. We do want input from other organizations, however, about what derivative products are important to include in the MSC.

The broad timeline is included in the PowerPoint. Between now and May, we want to gather input from organizations who have an interest in using this MSC/A contract to assist with defining the RFP requirements. We also would like to hear from you about concerns, needs or ideas about this project; both the MSC and the 2016 imagery project. Tanya Mayer is currently the point of contact for this effort. The small work group (Chris Cialek, Steve Kloiber, Mark Kotz, Geoff Maas and Tanya Mayer) will be meeting frequently over the next few months and we expect to actively engage counties for input in to the MSC RFP.

Comments and questions from the group:

Question: M. Koukol: Is pricing in the MSC set for 4-5 years?
Answer: C. Cialek: No, we are only asking for a not-to-exceed price set in the MSC and each project will request bids from the pre-approved vendors, and the best-value bid will be selected.

Question: H. Busch: Would a municipality be eligible to use this process without partnering with other entities (i.e. the county)?

Answer: C. Cialek: Yes, it is possible, but it may not be the most cost effective strategy.

Comment: D. Ross: Work Orders off of MSCs are much quicker/shorter turn-around. Organizations can buy individually off the MSC or participate in a larger project opportunity. It provides flexibility and buying power.

Comment: R. Knippel: Keep in mind that in a project, all interested partners could exceed the capacity of one vendor.

Question: J. Fritz: What are the derived products being considered?

Answer: Imagery-based elevation, planimetrics, and stereo. We want to keep the extra products limited but want input in to what's important for potential users of the MSC. At this time, we don't see a value to adding LiDAR or Obliques to this MSC.

Question: R. Knippel: What's the structure of buy-ups?

Answer: M. Kotz: It will be different for each project. For 2016, we are proposing (and working to secure) funding a 1' resolution, 4-band, spring leaf-off, aerial imagery for the 7-county metropolitan area. County-partners would pay the difference to buy-up to 6" (or other), which is the same model used in the recent SAIP.

Comment: R. Knippel: Be sure to consider how JPA's will work for each project. Maybe there's a way to pre-negotiate cost-sharing model?

Comment: N. Read: MnGeo will be acting as administrator of the contracts, managing the legal, QC and post to image server, correct? (yes); This saves others time and money to not have to do it themselves.

Agenda Item 5) Lightning Round

Geoff Maas (MetroGIS Coordinator): Welcome to our newest member Carrie Magnuson, the board of the Metro Chapter of the Minnesota Association of Watershed Districts has appointed her to be their representative to the Committee. Also, welcome to our guests today. Chad from Stearns County, Will is Craig is here and Dan Sward from the University of Minnesota. I always have my ear to the ground to try to find topics and speakers for the group. Will (Craig) turned me on the writing of Professor Earl Epstein who co-authored a book 'Modernizing American Land Records', my sense is he'd be a good fit to speak to this group if you are interested (group indicated their approval). OK, with your consent I will work to bring him in to our next meeting. Also a reminder, please feel free to let me know if there things you want on the agenda at future meetings.

Mark Maloney (City of Shoreview): Nothing really new to report, but we continue to be engaged on water issues with other local governments, the MetCouncil and state agencies in the north-east metro. The emphasis is on groundwater topics and their connection to water sensitive resources and long term water sustainability. We need to continually acknowledge and work with the fact that there are not the common datasets that we need at present. The City of Shoreview is also dealing with the issue of railroad quiet zones.

Brad Henry (University of Minnesota) I have been very involved with the MN2050 group, as I have mentioned in the past, we have a number of videos available that we produced with TPT to explain to the public the importance of our infrastructure, more recently we've been exploring how to message the importance of our rail and port infrastructure in addition to the usual categories of water, sewer, roads and so on. MN2050 will be conducting its 'State of the Infrastructure' survey reaching out to city, county and other governments. Purpose is that inform the public and elected officials of the magnitude of our infrastructural needs and to support funding and to get the professional practicing community to help implement best practices; a recurring theme is that most folks are reasonably aware of the surface infrastructure by we don't fully understand or appreciate the subsurface features.

Eric Menze (Resource Data, Inc): We are engaged in a lot of work with ArcFM, we are seeing a larger demand for and investment in ArcFM with many of our clients, and we are providing training to meet this demand. Please contact me if you want more information on it.

Sally Wakefield (SharedGeo/Non-Profit): SharedGeo is strongly advocating for the use and deployment of the U. S. National Grid (USNG) for emergency response; I'll mention that there are some DNR grants available for helping you implement USNG; adding signs to areas, trails; grant window is open now, closing in March.

Dan Ross (MnGeo): We're focusing on our project list, which special emphasis in the near term on the NextGen911. The 'machine' of NextGen911 is starting to move and we've got a new project manager Adam Eiten (sp?) coming on board to focus on the 911 piece. We are planning a survey to the PSAPs and we anticipate significant movement in the next 18 months on the project. Also, we are continuing work on statewide standards for parcels, centerlines and address points;

Chad Martini (Stearns County): Glad to have the invitation and the opportunity to come down and visit the group again.

Gordy Chinander (MESB): We are very much looking forward to working with Adam Eiten at MnGeo, we've got a good relationship going with him already, he's been connected with Intrado and GeoComm; also, we can get him up to speed with the progress of the MRCC (metro centerlines).

John Slusarczyk (Anoka County): No updates from Anoka County.

Will Craig (University of Minnesota): I am sitting in for Jeff Matson today who had to teach a class. I don't need to remind this group that the 'open data' is a pretty major step; URISA has announced their ESIG award application period for 2015, MetroGIS got that award in 2002 for its street centerlines contract and user-licensing efforts, I believe it is worth pursuing some national and international attention for your recent work in opening up the data. Any award coming in would be shared with the counties and MetroGIS together. Another award than the ESIG would be the Governor's Commendation Award, MetroGIS could run something through MnGeo to the governor's office. I am just planting a seed here today. The open data is really a big step and I think we take the opportunity to celebrate it.

Randy Knippel (Dakota County): I'd like to remind the group that the County Managers meet monthly county data producer work group in MetroGIS, meet monthly, virtually, and we include Olmsted County in our work. From our County Administrators, we have been prompted to find ways to save costs in IT and GIS falls under IT in our counties. Also, just before Christmas, I received a 'gift' of sorts, our Environmental Resources department got approval for a budget item for imagery collection on an annual basis. The funding—while not enough for the entire county all in one year—would be enough to cover a good portion of the county. Environmental Resources found they needed continually updated imagery for code enforcement and field inspections, working from imagery can save them a lot of field work, and there are solid cost savings associated with that. We will work through this in 2015, perhaps some way to tie Dakota County's needs into the proposed 2016 aerial buy up, and eventually be flying pictometry every 2 years, ortho every 3 years and see how it all plays out. By 2017, there will likely be a 'new normal' where we are able to get both ortho imagery and obliques.

John Baer (Washington County): I'm from the Surveyor's office in Washington County; I'm here to hear about the aerial imagery discussion.

Ron Wencl (USGS): We are engaged in a national hydrography requirement and benefits study, this is at the national scale, we are working with NRCS (Nat'l Resource Conservation Service). The project is modeled similar to the NEA study for elevation which led to the 3DEP (elevation data) program. Essentially it's the same thing for surface water and watersheds. We are gathering requirements for models and the characteristics we want to represent. The federal agency survey has been done, and we've got approval for another 350 respondents, that works out to be an average of seven (7) per state, Besides the requirements gathering there is a desire to quantify the benefits of the operations, understand the customer serve angle and the greater societal benefits; ideally with dollar values associated with each of these. y have dollar values. We will be working with Dan [Ross, State GIO] and Mark Olson (PCA) and looking for 6-8 participants across the state. The survey should be on line in February.

Carrie Magnuson (Ramsey Washington Metro Watershed District): Glad to be joining the group, no updates on our agency.

Pete Henschel (Carver County): No updates from Carver County.

Jim Fritz (Xcel Energy): I'm here to represent the utility perspective and I am very interested in learning about the upcoming centerlines initiative for the metro and state.

Hal Busch (City of Bloomington): At the City [of Bloomington] we remain in transition to ESRI from the SmallWorld platform.

Jon Hoekenga (Metropolitan Council): Here to contribute to the discussion on the address points project later in the agenda.

Matt Koukol (Ramsey County): Relative to this group, I've been working on the technical side of the Metro Centerlines, we'll talk about that later in the agenda and we at work with Washington County on the organics recycling program.

Dan Sward (University of Minnesota): I'm with the University's facility management department and just here as an observer today.

Nancy Read (Metro Mosquito Control Board): Lots of folks are working on mobile apps, and we are examining the 'bring your own device' policy at MMCD, do any of your agencies have one or are working on one? Randy Knippel, Dakota County has one that has been about a year and half in the making.

David Bitner (db Spatial): I want to let the group know that this years FOSS4G conference will be taking place in San Francisco this year (https://2015.foss4g-na.org/) and that a MapTime group (MapTime MSP) has started up in the Twin Cities. (http://www.meetup.com/MaptimeMSP/events/218617100/)

Mark Kotz (Metropolitan Council): At the Council we are seeing a steadily increasing demand for mobile apps, especially inspection apps for the field. Matt McGuire will be presenting at the TAT meeting (Feb 3) on some ideas for sharing and making available the best imagery for mobile apps;

David Brandt (Washington County): We are presently working with boundary annexation survey working closely with our surveyors. We are also working with our environmental services staff for creating damage assessment tools, and as Matt mentioned, we are wrapping organic recycling project in

we have wrapped our portion up and handed to Ramsey County at this point. We will be getting a demo in the coming weeks of the new CAD/E911 dataset as well.

Item 7) Work Plan and Budget for 2015

2015 Work Plan: Coordinator Maas refreshed the group on their work plan prioritization exercise from the last meeting in September 2014. At that meeting the group reviewed the results of the survey and 'weighted' the various projects and proposals for activity in the 2015 work cycle.

Work plan priorities identified were as follows:

Project or Initiative	Work on in 2015	Committee Ranking	Priority Score
Address Points Aggregation	Yes	1	462
Metro Regional Centerlines Collaborative	Yes	2	430
Free and Open Public Geospatial Data	Yes	3	429
Geospatial Commons (MetroGIS Support)	Yes	4	387
Statewide Centerlines Initiative (MetroGIS Support)	Yes	5	333
2016 Aerial Imagery Collection Coordination	Yes	6	324
Address Points Editor 3.0 (Enhancements)	Yes	7	308
Dashboard Application	*Maybe*	*8*	*252*
Public/Private Data Sharing	*Inactive*	*9*	*174*
Regional Stormwater Dataset (Research only)	Yes	10	155
Increased Sharing Beyond the Metro	*No*	*11*	*108*
Increased Frequency of Parcel Data Updates	*No*	*12*	*69*
Improvements to MetroGIS Geocoder	*No*	*13*	*48*
Creation of Regional Basemap Services	*No*	*14*	*46*
Development of Building Footprint Dataset	*No*	*15*	*24*
Development of Impervious Surface Dataset	*No*	*16*	*22*
Follow-on Quantifying Public Value (QPV)	*No*	*17*	*22*

The work plan items listed reflect both the projects and their order of priority for MetroGIS participants and staff to apply effort to. Additional efforts to be undertaken by staff and participants in 2015 that are not formally structured projects include:

- Development of a Draft Memorandum of Agreement document between the Seven Metropolitan Counties and the Metropolitan Council to replace the existing Legal Agreement (which will sunset on December 31, 2015) *[Initial draft to be prepared by Geoff Maas with significant input, revision and contribution by the Seven County GIS Managers]*

- Revision of the MetroGIS Operational Guidelines and Procedures to more accurately reflect the practice and operation of the collaborative; *[Draft revisions will be prepared by Geoff Maas for the review and acceptance of the Coordinating Committee, with anticipated review and approval by the Policy Board on April 30, 2015]*

- Application for a Governors' Commendation Award in 2015 and URISA ESIG Award in 2015; *[volunteers to help prepare the award include Will Craig, David Bitner, Sally Wakefield and Geoff Maas; could be considered a part of the Free and Open Data Initiative (#3 on work plan)]*

2015 MetroGIS Budget: Maas presented the expenditures from 2014 and the available budget funds for 2015 with the known and anticipated expenses listed.

MetroGIS 2014 Expenditures and 2015 Funds Available

2015 Rank	Project/Expense	MetroGIS 2014 $	MetroGIS 2015 $
	Regional Parcel Dataset Legal Agreement Payment	28,000.00	28,000.00
	New MetroGIS Website	46,235.50	(Not Applicable in 2015)
1	Address Points Aggregation	0.00	
2	Metro Regional Centerlines Collaborative	0.00	
3	Free and Open Public Geospatial Data	0.00	
4	Geospatial Commons (MetroGIS Support)	14,000.00	
5	Statewide Centerlines Initiative (MetroGIS Support)	0.00	
6	2016 Aerial Imagery Collection Coordination	(Not Applicable in 2014)	
7	Address Points Editor 2.0 (Enhancements)	7,160.00	(Not Applicable in 2015)
7	Address Points Editor 3.0 (Enhancements)	16,400.00	5,680.00
8	*Dashboard Application (On Hold)*	*0.00*	
9	*Public-Private Data Sharing (On Hold)*	*0.00*	
10	Regional Stormwater Dataset (Research Only)	0.00	
	Miscellaneous Maintenance Expenses*	2,060.27	2,000.00
	Spent or Committed	113,855.00	35,680.00
	Remaining	0.00	50,320.00

*Miscellaneous Expenses Breakdown	2014	2015
Software Purchases & Kentico CMS Annual License	1389.00	
Meeting Refreshments	561.28	
Web Domain & Service Mark renewals	78.00	
Printing, Shipping & Misc. Materials	0.00	
Books & Reference Materials Purchase	31.99	

Based on known and anticipated expenses in 2015 for MetroGIS, a remaining balance of 50,320.00 is available for project and activity work.

Committee members deferred assigning priorities for the available budget funds until the existing Project Updates were presented. Final decision on adoption of the work plan and assignment of budget funds can be found on **page X.**

Item 8) Current Work Plan Updates
At each Coordinating Committee meeting, updates on the current projects are provided by staff and participants from the stakeholder agencies. Slides found at the end of this document provide additional context and detail to support the summary notes.

8a) Address Point Aggregation
Maas and Jon Hoekenga (Metropolitan Council) described the present disposition of progress of address point aggregation. Currently, address points in the MetroGIS standard are available in the DataFinder for Dakota, Carver and Ramsey Counties. While an excellent and useful resources, the address points collected and aggregated to date are not yet fully within the desired description of the original project vision.

At present, the metro address point dataset contains a mix of three major point types:
- Authoritatively-sourced points (Created by the address authority, showing the correct address)
- Quasi-address points (Containing some but not all of the needed address data)
- Parcel centroid (Containing a local situs address)

Randy Knippel indicated that there would continue to be a mix of data coming in as described by.
He cited the example that at present, six of the twelve cities in Dakota County are using the Address Editor tool and the remaining cities are not yet using it.

Hoekenga said the next steps in the process would be to reconvene the MetroGIS Addressing Work Group to fully discuss and work toward resolving the issues and specifically, to refine the data domains so end users know what they are getting and use the data with confidence.

8b) Free + Open Data
Maas gave a brief overview of recent open data developments since the last meeting, including:

- Clay County adopting a formal open data policy on October 28, 2014 (using similar language to the Metro Counties adopted policies);
- Washington County adopting a free and open data policy on November 18, 2014;
- Stearns County making their data freely available in December 2014;
- Sherburne County removing the fee for access to their data as of January 2015;

Maas also indicated that he had been contacted by the Borchert Library at the University of Minnesota. Staff at the library expressed their interest in tracking and developing a web map application to display the status of free and open data by county in the state. Maas expressed his gratitude for this development as his efforts to track open data in the state have been in good faith, but ultimately *ad hoc*; being primarily based upon intermittent contact with data producers in Greater Minnesota.

Finally, Maas indicated that there has been interest in MetroGIS' work from elsewhere in the United States and Canada. Maas was approached by Debra Kelloway of the York Info Partnership from York Regional Municipality in Ontario, Canada to present a webinar on the collaboratives work on the open data issue; this occurred on December 4, 2014 for the York Info Partnership Coordinating Committee.

Randy Knippel, the Chair of the MetroGIS Data Producers Work Group and Maas were contacted via email in January 2015 by the Louisville-Jefferson County Information Consortium in Louisville, Kentucky for the potential for presenting to them on the open data issue.

Next steps on the free and open data initiative include:

- Work with Scott County staff and leadership in 2015;
- Continue to respond to requests for info & assistance on the topic as needed.;
- Conduct additional research as needed and directed by the Coordinating Committee;
- Report to the MetroGIS Policy Board at the April 30, 2015 annual meeting on:
    - *How the data is being used;*
    - *How it is benefiting the user community;*
    - *Other relevant updates as they are germane to the group;*

8c) Geospatial Commons

Dan Ross and Chris Cialek provided a summary update on the Geospatial Commons development to date. This included:

- Continued successful migration of all significant state geospatial resources currently provided in the MNDNR Data Deli, Minnesota Geographic Data Clearinghouse, MetroGIS DataFinder and other independent state agencies into the Commons architecture;

- Published resources accessible through the Commons has reached nearly 200;

- Participation of remaining state agencies and external partners will be pursued beginning in March 2015;

Ross encouraged the Committee members to visit the Commons site and consider hosting their agencies data within it.

8d) Address Point Editor Tool 3.0

Tanya Mayer (Metropolitan Council) provided a brief update on the status of version 3.0 of the Editor. Mayer indicated that the vendor (North Point Geographics in Duluth) is on schedule for final delivery of Version 3.0 of the tool by late February/early March and that three participating metro counties (Carver, Dakota and Hennepin) are testing the tool before its release.

Added functionality to be available in Version 3.0 of the tool includes:
- *Support Address Change Report and Email Notices*
- *Add Functionality to 'Add New Points' Tool*
- *Add Functionality to page-thru and scroll item of multi-selection points*
- *Modify interface for larger comments field and scrollable pop-out field*
- *Support checks for duplicate addresses*
- *Add a tool to calculate a hypothetical address*
- *Organization and management of code;*

8e.1) Statewide Centerline Project
Dan Ross provided a brief update on the project status. MnGeo has stood up an instance of the ESRI Roads and Highways modules and is engaged in efforts to conflate and work with non-state agency/locally produced data, the NextGen911 content will be a significant area of focus as well as capitalizing on the findings and progress of the metro centerlines initiative as they become available.

8e.2) Metro Regional Centerlines Collaborative
Maas provided a brief recap and update on the project and indicated that the data model document, supporting materials and sample dataset are ready for publication and review by the stakeholders. Review of the sample and documentation by the stakeholder community will take place through the month of February with a final report on their comments to be provided to the Committee at its March meeting and further action suggested by the Core and Design Teams of the project.

8f) Stormwater Initiative Update
Maas indicated that he has been setting up interviews with agencies that have expressed interest as either a stakeholder or data consumer of a potential standardized dataset.

Agencies interviewed so far include:
- Metropolitan Mosquito Control District
- University of Minnesota Ecology Department
- Ramsey Washington Metro Watershed District
- Metropolitan Council Environmental Services Department
- City of Shoreview
- St. Olaf College
- USGS Water Science Center
- Capitol Region Watershed District
- Upper Mississippi River Basin Association
- Mississippi Nat'l River and Recreation Area (Nat'l Park Service)
- City of St. Paul
- Ramsey County Department of Public Works

Scheduled for interviews in February
- Minnesota Department of Health (Feb 2)
- City of Minneapolis (Feb 4)

A summary document of the business cases of interested agencies will be on offer sometime in spring 2015 with summary presentations to both the Coordinating Committee and Policy Board as well.

8g) Sharing Beyond the Metro
Project is on hold with no current or planned action, save for the indirect work of stakeholder input from the Metro Centerlines project and the Free and Open data work.

8h) Private/Public Data Sharing
Was identified in the group's project scoring exercise but lacks a champion, owner, work team, etc. so remains functionally 'on hold'.

9) Revised Operational Guidelines and Procedures Document
Maas described the need for assembling the various edits and modifications to bring the document 'up to speed' and to match the actual practice and activities of MetroGIS. Edits and revisions took place in 2013 by various members of the MetroGIS community and need to be definitively organized for approval at the upcoming Coordinating Committee Meeting on March 26 and the upcoming Annual Policy Board meeting on April 30, 2015. Maas has assumed responsibility to assemble and publish this document for the review of the membership and board members.

10) Transition from Legal Agreement to Memorandum of Agreement Document
With the existing Legal Agreement between the Seven Metropolitan Counties and the Metropolitan Council set to terminate on December 31, 2015, it was suggested to—and approved by—the Policy Board that a new document, in the vein of a Memorandum of Agreement be drawn up in its place to highlight and emphasize the continued partnership of the Counties and Council in working together to share data, develop shared solutions, reduce costs and collaborate. Maas has assumed responsibility to draft an initial document for review and revision by the members of the Seven Metro County GIS Managers in February. The document will be reviewed at the March 26 Coordinating Committee meeting and offered to the Policy Board for their support and approval on April 30.

11) Data Standardization Discussion
Maas observed this issue underlies many of the projects presently in play at both the regional and state levels. It is well-acknowledged that regional and state agencies have a consistent need for locally produced address, parcel, centerline and other data and a balanced approach to solving these needs is warranted. Maas cited the example of the County Well Index data, where the Minnesota Department of Health and the Minnesota Geological Survey have developed a collaborative solution that meets both agencies needs for a reliable, consistent and useful dataset available to a larger geospatial consumer audience. He further cited the need for regional and state agencies to clearly document their business cases and to find solutions and resources that facilitate and ease the process for local data producers to provide the data without ever increasing burdens of work, responding to mandates and requests.

Craig indicated that this work toward standardization could be added to the Work Plan in 2015 for additional effort and analysis and, that real consideration should be made for standardization outside of Minnesota as well with neighboring states. He reminded the group that NSGIC remained positioned to raise the standardization to a national level of discussion. Kotz and Maas indicated that this work was part-and-parcel of the existing initiatives (Address points, road centerlines, parcels, etc.) and need not be its own separate project at this time for progress to be made.

The group engaged in an informal discussion of the various talking points around standardization:

Kotz intimated that we (MetroGIS participants collectively and our representative agencies) will be a part of these discussions as long as we continue to work on data development and data standards.

Knippel reminded the group that county governments have, and look to continue, to make the data their data freely available, however, County staff will still need to primarily answer to their own directors and business needs.

Funding or other assistance in-kind from regional and state interests are an important part of the standardization discussion and will help county staff to leverage interest and support from their leadership.

Revisiting the Work Plan:

Maas reminded the group that the Work Plan needed to be approved, or tabled for further review and discussion at the meeting. The group agreed that the budget could remain uncommitted and the Committee could approve the work plan contents without the commitment of the budget to the project list. Discussion and final approval of the budget can be conducted at the March (26th) meeting.

Nancy Read suggested that Maas send around the budget before the next meeting with staff recommendations on what to do with the funds.

The decision to pursue available awards was folded in under the Free and Open Data Work Project (#3) with S. Wakefield, D. Bitner and W. Craig volunteering to assist G. Maas with data collection and award applications.

Motion to approve the 2015 Work Plan:

Motion to approve: Kotz; second: Wakefield; unanimous support, motion carried.

12) Next Meeting

The next meeting will be held on **Thursday, March 26, 2015**

13) Adjournment

Proxy Vice Chair Mark Maloney adjourned the meeting at 3:30 pm.

MetroGIS Coordinating Committee: Meeting Minutes

Thursday, March 26, 2015, 2015, 1 PM - 3:30 PM
Metro Counties Government Center, 2099 University Avenue, St Paul
Meeting Minutes – Approved August 27, 2015

Members Present:
Erik Dahl, Environmental Quality Board, Chair
Dave Brandt, Washington County, Vice Chair
Brad Henry, University of Minnesota-Special Expertise
Carrie Magnuson, Ramsey-Washington-Metro Watershed District
Eric Haugen, Resource Data, Inc.
Gordy Chinander, Metropolitan Emergency Services Board
Mitchell Winiecki, LOGS (proxy for Ben Verbick)
Chris Mavis, Hennepin County (proxy for Gary Swenson)
Matt Koukol, Ramsey County
Curtis Carlson, Northstar MLS
Randy Knippel, Dakota County
Pete Henschel, Carver County
John Slusarczyk, Anoka County
Dan Ross, Minnesota Geospatial Information Office
Tony Monsour, Scott County
Ron Wencl, USGS
Matt McGuire, Metropolitan Council (proxy for Mark Kotz)
Jon Hoekenga, Metropolitan Council
Len Kne, U-Spatial-University of Minnesota
Hal Watson, Minnesota Department of Natural Resource

Guests:
Tom Bushey, Hennepin County

Absent:
Mark Kotz, Metropolitan Council
Gary Swenson, Hennepin County
Francis Harvey, University of Minnesota
Ben Verbick, LOGIS
Matt Baker, Metropolitan Airports Commission
Nancy Read, Metro Mosquito Control District
Jeff Matson, CURA-University of Minnesota
Sally Wakefield, SharedGeo (Non-Profit)
David Bitner, dbSpatial
Jim Fritz, Xcel Energy

Staff:
Geoff Maas, MetroGIS Coordinator

1) Call to Order
Chair Dahl called the meeting to order at 1:10 pm

2) Approval of Meeting Agenda
Motion: Henry; Second: Carlson, motion carried

3) Approve Meeting Minutes from January 22, 2015
Motion: Koukol, Second: Slusarczyk, motion carried

4) Lightning Round Update

Henry: I remain engaged with the MN 2050 effort; we are working on the statewide survey to cities and counties on the status of their infrastructure.

Haugen: No update

Magnuson: No update

Chinander: We will be adding an E911 component to the Data Producer Working Group/Eight County Collaborative meeting beginning on April 8.

Winiecki: LOGIS is working with Hennepin County LOGIS with the deployment of the MetroGIS Address Point Tool, we are in the pre-production phase in both the cities of Maple Grove and Golden Valley.

Bushey: No update, I'm here at Chris's "plus one" today.

Mavis: We've just hired Tom Bushey, also we have just completed our Pictometry flight.

Koukol: We have also completed our Pictometry flight, we'll also be getting high resolution imagery through Surdex in the coming two weeks.

Carlson: Spring is when we (Northstar MLS) conducts our full parcel update, we will be acquiring and working in as many county parcel datasets as we can into our geodatabase to get it up to date.

Knippel: Dakota County has just finished its 2014 contract with Pictometry as they were unable to finish the leaf-off imagery collected last year and needed to complete the collection last week. We are installing the USNG emergency location markers in Lebanon Hills Regional Park this spring and the City of St Paul is also installing them in Lilydale Park. Various uses of the USNG are being mentioned and we are getting some traction with it. The State of Iowa is moving quickly with their work on USNG as well; very encouraging to see. From the Data Producers Work Group, we continue to meet monthly and as Gordy mentioned, we are adding an Emergency Services 911 component to the meetings. In our list of items we are discussion

the creation of 1K USNG maps for the entire seven county metro and Dan (Ross) has indicated we could potentially publish the maps on the Geospatial Commons. I recently attended a metro regional emergency managers meeting, there is a joint powers agreement among multiple counties and cities to work together. The meeting was very well attended and there was support for both the regional map series and USNG. About have of the group were strong advocates for it and the others were at least aware of it.

Henschel: No update

Slusarczyk: In Anoka County, we are in the process of pulling together a new web GIS platform, from WebGIS we are partnering with Dakota and Washington counties on this as well. Our current site is using Silverlight and is not particularly mobile friendly.

Ross: From the statewide perspective, the NextGen9-1-1 is moving along, picking up speed, a lot will be happening before October of this year, we will be leveraging the standards this group had put together on centerlines and address points, many members of this group will be involved in the discussion.

Monsour: We've got a number of things in the works, one of the major ones at the moment that we are focused on address points, we've met with our cities and have some good energy going to get that put together, we've got some interns coming in this summer to work, one big use for this will be to support the new dispatch system.

Wencl: Two main things, we are wrapping up a National Hydrography study requirements and documenting the benefits and core uses of the data. We've received input from all levels of data users in the 50 states, identifying over 600 mission critical activities that depend on the data. In Minnesota we had 53 regional and local responses, incl. Carrie and Geoff here at the table.

We will be hosting a meeting in May centered on the 3DEP program, our funding mechanism for that was to include federal, state, and local partnerships. The 3DEP is really seen as the 'next generation' of elevation data.

McGuire: I am here as proxy for Mark Kotz today, I will be presenting on the Shared Tiled Imagery topic later on.

Hoekenga: I will be providing an update later on regarding Address Point Aggregation work.

Watson: We are working to address the new waterway buffer protection rules that have come down from the governor's office. Essentially, it looks to create a 50-foot buffer along streams and water courses of specific designations and types to protect them from overuse and farming runoff. We are being asked to provide various types of analysis and maps to meet the water quality protection goals.

Kne: We have a couple of events coming up next week, the Career Fair at the University is chance for you all to post jobs and to network, good chance to connect, this will be next Monday (March 30th). Also, Carl Steinitz, emeritus professor from Harvard University will be giving a lecture on GeoDesign at Coffman Memorial Union; he is the person who actually coined the term 'geodesign'.

Brandt: Washington County is working with Anoka and Dakota on the WebGIS platform.

Dahl: Pass

5) Park, Recreational Lands and Trail Data Standardization

Watson: I am here to essentially make a proposal for a forthcoming project that will need to leverage MetroGIS' existing relationships and work process. The DNR is involved in an application development project that involves integration of multiple jurisdictions park, recreational land and trail data across the region and the state. We have a mandate from the State Legislature to stand up a web application where users can, at a high level, search for and acquire info they want on recreational amenities.

The goal of the DNR specifically is to enhance the integrated use of park and trail data into a , comprehensive and integrated accessible database of *all* regional parks and trails, not just DNR assets, but regional and county as well.

We are focused on using this strategy to develop an integrative website, so users can access this essential info about regional parks across the state.

Objectives of the initiative include: the larger goal to engage Minnesotans in more outdoor recreation; meet the need for users to have access to online info about trails, parks and recreational amenities in an easy to use format. At present, most users are unaware and do not care which agency manages a particular recreational site or amenity. The DNR site would serve as a gateway to increase traffic to local sites; we look to 'promote the brands' of the various organizations that maintain and run the parks, promote the Legacy Amendment funding for this project.

The project is really focused on the 'end user perspective', we as maintaining agencies, data producers and managers; we don't presently publish the information in a way that facilitates a seamless end user experience.

The work to date includes identifying the key partners, these include the DNR, the Metropolitan Council and the ten implementing agencies with works with in the metro region, the Explore Minnesota group, MnGeo, Greater Minnesota Parks and Trails.

We want to create a protocol and standard for aggregation that will allow listed organization to roll up into state-wide dataset, through the architecture of the Commons.

Regional partners can function as coordinators for their constituent group to help the DNR aggregate the information. Our goals are both short term and long term, and include the following:

Short term goals:
Development of a Recreational Data Standard
Partner with MetroGIS in the Standard Development Process
Creation of a Park and Trail End User Website

Long term goals:
A set of consistently structured and reliable recreational data and services;
Dataset that is consumable by a wide variety of public and private applications developers and users;

MetroGIS has had some success in the past with developing data standards, specifically parcels, address points and road centerline data. Randy's (Knippel) comment at a recent meeting helped get us thinking in a larger context, we want to integrate the service so users can write their own applications again, around the park data, with us aggregating, standardizing and building the data, we can facilitate that.

So I am pitching this proposal to solicit the MetroGIS group to facilitate a process, create task force or a work team to develop a standard. Again, we want to not just meet the DNRs requirements, we want the dataset to serve everyone's needs.

Questions/Comments:

Knippel: As Hal mentioned, we met not too long ago, meeting was initiated by the DNR, who I feel may not have realized how we are already meeting and collaborating on these issues. We can probably apply a similar process to the project as we have recently with the Metro Centerlines work, we've been working with a project manager assigned by Hennepin County (Ann Houghton); we could very likely apply the same approach with this.

Brandt: In the past we have used the Technical Advisory Team for this kind of work, is there an opportunity to re-engage that group?

Ross: This is good to have the metro resources ready to use, I would try to include the Greater Minnesota parks and trails commission as well, many of the model elements are already made and we could potentially begin with Houston Engineering's data model, they have been working with the Greater Minnesota group.

Watson: There are some examples of this kind of data model already usable, some federal, some that are in use by the Greater Minnesota group.

Knippel: From our prior discussion, seems like there is a tight timeline for what the DNR needs to meet its mandate, we could probably meet the initial DNR requirements early on, and then develop a more full set of model requirements later on. What is the timeline to meet your deadline?

Watson: I anticipate we need a data model by November [2015] and to be able to test pulling the data in early 2016.

Knippel: I would recommend that the Data Producer Work Group take this on for follow up; We could potentially send this to the TAT and approach Hennepin County to see if we can make use of Ann's (Houghton) time again as project manager. As a follow up item with them, we will need to see the how we work in the non-county interests that operate parks in Hennepin County.

[Note, the non-county interests are three of the ten park implementing agencies in the metro which are the City of Bloomington, City of Minneapolis and Three Rivers Park District]

Koukol: With the metro centerline work, we have already begun to think about the multi-modal nature of the system, as in the trails being connected to the road network for dispatch an emergency services, there may be a way to bring those discussion together and build on what we are already doing.

Maas: For this to be a formal MetroGIS project, we do need to add it to our work plan document and it would likely displace one or two items that are presently on our designated list. It seems like we can determine a strong business need, a champion and an owner, but we need to tighten up who would be on the work team. We will be revisiting our project list later in the meeting when we do updates.

Next Steps for Park-Rec-Trail Data Standard:

Get the item on the Data Producers Work Group/Eight County Collaborative meeting agenda for April 8; have each county designate a staff person to be their contact for the project; this will form the

Hal Watson to collect the DNR's specific data needs to meet their Legislative Mandate
Geoff Maas to work with Metropolitan Council regional park staff to collect their

6) Shared Tiled Imagery Concept

Matt McGuire, GIS System Administrator with the Metropolitan Council, described an emerging need and project concept for developing a shared tiled imagery system and how MetroGIS partners could help realize the benefit of this effort.

The central 'ask' is to work to coordinate on sharing tiling scheme for base maps and aerial images, the main benefits of this would be its applicability for working across county boundaries (seamless at the boundary) and for use in mobile applications. The ability to create our own tiled schema in the metro, where the counties are all using the same scale levels would facilitate this greatly.

Some of the current limitations are the continued reliance on UTM which limits customer choice and the various base map scale levels not aligning across the metro.

Similarities we see across the metro include six of the seven counties providing imagery web services and at six-inch resolution.

Differences we see related to how the data is served up, there are a mix of projections (county coordinates, UTM, Web Mercator are the three most in use); the use of similar but not identical scale levels and a need for standardized tiling rows and columns.

After working through this and presenting it at the TAT in February, I discovered what we are exploring is very close to what ESRI has available through its Community Base Map offering.

The benefits of working on this include:
- Easy to share each other's base maps, facilitates ease of use
- Can combine to build regional base maps both with imagery and imagery and 'decoration' (e.g. feature labels, names, etc.)
- Local redundancy (overlap at county boundaries
- Common Operating Pictures for all involved
- Ease of access and use in 'mutual aid' situations
- Ability to load a single basemap

Comments/Questions:

Knippel: Could we extend the existing features of Community Base Map (CBM)? If we were able to get a higher scale in CBM, would solve the problem?

McGuire: Dan Falbo (ESRI) has agreed to host an info session on the Community Base Map when he was at the February 3rd TAT meeting, we could compile questions of that nature for that info session.

Knippel: With our restrictions on sharing data now gone, we can certainly contribute to something like CBM, to meet your proposal sounds like a good reason to move that way. With restrictions gone on the data, we can contribute it. Leverage these concerns, heres a good reason to do it.

Work out the stuff on the back end, shared tiles, etc.

We can explore it in that way
Look at CMB first how we can meet that.
Do one, put it in CMB
Google, local street map, rather than just feeding one vendor

ESRI Community Maps Program Page

McGuire: One of the advantages of web Mercator is that we could readily contribute to CMB, still have the source that can be provided without any extra process.

Ross: The State, and from what you say Matt, the Council is all still in UTM. Depending on the target audiences, be that government agency or public we may wind up having to carry both (Web Mercator and UTM)

Knippel: Google and Bing got things going with Web Mercator a long time ago, it will be hard to 'fight' that as it is now so widely used.

McGuire: If we are sharing information and we all have needs that Web Mercator doesn't meet, we may simply need to maintain and manage two systems.

Brandt: I would be concerned about the limits to the scale threshold, 1:1128 appears to be the lowest (largest) it can go to.

Bushey: Can each county generate tiles at a larger scale for its own use?

McGuire: A possibility, certainly the Council needs larger scale that 1:1128 as well.

Ross: I can see this conversation continue beyond the metro, for example, we've been working with the State Patrol on their tile cache system.

Next steps:
Contact Dan Falbo @ ESRI and get a demo/info session set up focused on CBM
Each county research the CBM to see what does/doesn't meet your existing needs

7)   Policy Board Update

Maas provided a quick update, indicating that the next Policy Board meeting would be the 2015 Annual Meeting as would occur on April 29th. Agenda items for this meeting are to include updates on projects,

8)   Revised MetroGIS Operational Guidelines and Procedures Approval

Maas mentioned that a draft revision of the current

9)   Work Plan Project Update Briefs

9a – more state partners, aggregate metro only, need to attack it more widely
Better way to do that more than just aggregate points and centerlines
Set a meeting in April to get a data aggregation process
Adam Item is very excited in that.

Dan Ross: Can roll it up if it has to; NG911 focus

Curt: Statewide parcel standard: DOR – stuck with new data model, mandate to do that;
Mandate,, didn't' want the two to be different

State agencies together to bring them together… discussion with the committee DOR and state needs…
Proposed standard, in flux, the way it is.

DOR – not much of a match, 60% match with metro standard, frozen it until 2016.
Most of the data (CAMA) not looking for that.

Geography with pin:

Commons: large amount of work.
219 resources in there;
Public release
Looking for partners
Many way to participate
Link to portals –
Reference to your data, points back to your site
Recognize that as the measn to it.
Metadata training is almost complete
Texting export of the data, will be announcement on the commons.

Stateside
Roads and Highways tools, moved to production,
Set up the tools, exposed to the partners, hopefully will be state wide
NDSU work with the engineers in the state
Train them up on the tools
Additonal work to do, data model has changed, MnDOT moving old data into new model
Frozen period updating internal data,

Final data model in May 2015.
Tools are up for the partners…

Goals: extended the tools
Data reviewer extension available on the local end;
Changed as it comes along
Work flows with local government, to help move forward
Accommodate various work flows;

Eventually working toward the MRCC model.

Edit the geography, one where you edit the attributes.
One packet, extension is one, one is esri roads and highways.
Two views of the data,: engieners: road authorities, who will enter the geometry
Provision for multiple geometries?
Don't' count on it.
Handle both LRS and single

$$$: Software development for centerlines development.

10) MetroGIS 2015 Budget Programming Discussion
Maas reminded the group that at present MetroGIS had not programmed its remaining $50,320 for calendar 2015. He posted the list of active projects and indicated that none of the projects had an immediate or overt need for funding; rather, they were being met by labor or in-kind services. The one suggestion was that custom development work might be required for the Metro Centerlines aggregation work later in the year, the group agreed to revisit this at its next meeting.

11) Next Coordinating Committee Meeting is presently scheduled for Thursday, July 23, 2015, it was noted that this date occurs during the ESRI User Conference and might be pushed to August instead. Maas indicated he would look into pushing the meeting to a later date to accommodate this request.

12) Adjourn
Motion to Adjourn: Koukol, Second: Knippel, Chair Dahl adjourned the meeting at 3:17 pm

MetroGIS Coordinating Committee: Meeting Minutes
Thursday, August 27, 2015, 1 PM - 3:30 PM **(Approved, December 3, 2015)**
Metro Counties Government Center, 2099 University Avenue, St Paul

In Attendance:
David Bitner, db Spatial
David Brandt, Washington County (Vice Chair)
Curtis Carlson, Northstar MLS
Gordy Chinander, MESB
Erik Dahl, EQB (Chair)
Eric Menze, Resource Data, Inc. (for Eric Haugen)
Brad Henry, University of Minnesota
Pete Henschel, Carver County
Len Kne, U-Spatial
Randy Knippel, Dakota County
Mark Kotz, Metropolitan Council
Jessica Fendos, Ramsey County (for Matt Koukol),
Carrie Magnuson, Ramsey Washington Metro Watershed District
Mark Maloney, Shoreview
Jeff Matson, CURA/Non-Profit
Nancy Read, Metro Mosquito Control
Gary Swenson, Hennepin County
Ben Verbick, LOGIS
Ron Wencl, USGS

Absent:

Dan Ross, MnGeo	Hal Busch, Bloomington
Matt Baker, Metropolitan Airports Commission	Eric Haugen, Resource Data, Inc.
Jim Fritz, Xcel Energy	Tony Monsour, Scott County
John Slusarczyk, Anoka County	Sally Wakefield, Non-Profit Sector
Hal Watson, DNR	

Guests:
Ryan Mattke, Borchert Library
Kevin Dyke, Borchert Library
Adam Item, MN.IT Services

1)   **Call to Order**
        Chair Dahl called the meeting to order at 1:07 pm

2)   **Approve Meeting Agenda**
        Motion: Bitner, Second: Verbick

3)   **Approve Meeting Minutes from March 26, 2015**
        Motion: Bitner, Second: Kotz

4) Action of Approval of the Revised MetroGIS Operational Guidelines and Procedures Approval
>   Motion: Bitner, Second: Brandt
>   Vote: Unanimous approval;

5) 2016 New Work Plan Project Proposals

5a) Aerial Imagery Archive and Mosaic Project
Kevin Dyke gave a presentation in support of the joint University of Minnesota-Borchert Library/Center for Urban and Regional Analysis project submittal for developing a mosaic and web service of historical aerial imagery for the Seven Metro County area. Kevin provided background on the existing pre-pilot project they have successfully completed using ArcGIS Web Application Builder with swipe function to prototype an interface with imagery from 1956 for the cities of Minneapolis and St. Paul. Kevin demonstrated that they have developed a solid workflow that addresses the numerous idiosyncrasies of working with the old data, and they anticipate using this work flow and refining it to add more imagery. Kevin also described the Minnesota historical Aerial Photographs Online (MHAPO) resource and how it presently receives, on average, around 300 hits per week, indicating a continued interest in archived imagery.

The central focus of the project proposal is to create a seamless mosaic with representative imagery from each decade for historical comparison (for example, a user could swipe 1956 image against 1966 imagery to view the change). Kevin explained that the Borchert/CURA partnership would like to 'scale up' and hire a number of undergraduate GIS students to assist in the work to complete the next two mosaics. For the 1956 pre-pilot, there were 10-12 images, for the next phase there are 60-70 images and the final phase would include up to 400 images.

Kevin highlighted the costs for hosting would be assumed by the University of Minnesota, and that counties and cities could simply point users toward the Borchert Library Resource to view and access historic imagery.

Questions for project proposers:
Chinander: How frequent are the images from the past? Are all the counties the same year?
Mattke: The older images we have and are working with were flights commissioned by Metropolitan Council and its predecessor organizations, and the entire metro is flown in a single year;
Dyke: Individual counties have a large amount of imagery, but not all in the same year, for comparison purposes, the regional dataset is consistent for the years it was flown and makes for a consistent mosaic.

Carlson: Is there a source indicated for the agency that produced the imagery? Such as MnDOT, DNR and other sources? Is there coverage of this kind outside of the metro?
Mattke: As we mentioned, almost all of the data was created for the Metropolitan Council and its predecessor organizations. Our current project would remain just in the metro area, using the regional data; we do have some overlap into adjoining counties, but adding them in more fully would have to come later.

Read: Were these images captured in stereo?
Mattke: No, these are straight imagery; each photo is 3 x 3 ft. and not really workable for stereo applications.

Kotz: What resolution are the images that you are working with?

Mattke: We are scanning them up to 600 dpi, but dependent on the resolution of the original images, you can see things really well to when you zoom into the neighborhood level. The older photos were created at 1:96,000-scale, but as time goes on, they get better and better.

Knippel: Are you scanning directly from the contact prints?
Mattke: Yes.
Knippel: Have you encountered any licensing issues? In the past when we've wanted to utilize old imagery we had to sign agreements with vendors that it was for internal use only.
Mattke: We have had our legal staff look into that a bit. To date, we've got upward of 12,000 photos and images we are making available with no issue via streaming and other services. As the data was created for and paid for by a public agency we understand it to be available.
Knippel: It would be worth your while to confirm the legal aspects of using this imagery.
Wencl: What are the chances of the vendors having the original film? I would guess it is very slim.
Knippel: Checking with the vendor might reveal a better source as well than the contact sheets; I would recommend verifying any legal or copyright details on the images.

5b) State Park and Trail Dataset/Data Standard

Maas gave a short re-cap of the Park, Trail and Recreational Land Data Standard presentation that Hal Watson gave in more detail at the last meeting (March 2015), these included the short and long-term goals of the initiative.

Short-Term Goals:
> Gather & document stakeholder requirements;
> Develop a data standard to meet stakeholder needs;
> Sample dataset and review by the community;

Long Term Goals:
> An adopted data standard;
> Consistently structured recreation data and services;
> Consumable by wide variety of public and private applications;

Next Immediate Steps:
> Add to MetroGIS Work Plan;
> Identify parallel efforts (Hennepin Co/U of M/Council);
> Develop full stakeholder list + work team;
> Stakeholder event, requirements gathering;
> Develop data standard;
> Develop a sample dataset in the new standard for review;

Maas reiterated the need for creating a detailed and inclusive stakeholder list and to bring in any current or parallel efforts and interests as soon as possible. He indicated that he had been in contact recently with stakeholders in other Metropolitan Council Departments, with the Hennepin County Bike Trail Coordinator and others who were interested in the potential to make the standard more inclusive of local needs.

Knippel: At the meeting we had with the DNR earlier in the year, it appeared like their (state) focus was just on the parks and trail of state and regional significance. How will we be able to have this be valuable to the local jurisdictions?

Maas: That is why having this on the MetroGIS plan is important, it provides an avenue for the local input with the regional and state interests. I, and I am sure others, want to be able to cast the net wide on this and ensure we can meet as many of the core needs as possible.

Swenson: As Hennepin County doesn't have a park department (Three Rivers Park District is the implementing agency for Hennepin County outside of Minneapolis) we are in a little different position than the other counties, however, some of our departments such as Transportation are very interested in the trail and connectivity piece and want to be at the table.

6) 2016 Work Plan Project Priority Ranking
Each year, the Coordinating Committee formally revisits the MetroGIS Work Plan document to prioritize and assess the progress on existing projects and rank new project proposals in context with existing work.

6a) Brief Recap of Survey Results
Prior to the meeting, Maas distributed a five question Survey Monkey survey for the members to rank the importance of existing, past and proposed projects. Having received 20 responses, the results are as follows:

		HIGH	MEDIUM	LOW	NO NEED	WEIGHTED AVERAGE
IP	Data Aggregation Address Points: Pilot Project	**73.68**	21.05	5.26	0.00	**2.68**
IP	Minnesota Geospatial Commons (MetroGIS Support)	**52.63**	42.11	5.26	0.00	**2.47**
IP	Metro Regional Centerline Collaborative	**52.63**	26.32	21.05	0.00	**2.32**
IP	2016 Metro Aerial Imagery Buy Up	**42.11**	31.58	26.32	0.00	**2.16**
NEW	Statewide Park & Trail Data Standard/Dataset	31.58	**52.63**	10.53	5.26	**2.11**
IP	Free + Open Geospatial Data Research and Advocacy	21.05	**57.89**	21.05	0.00	**2.00**
NEW	Historic Aerial Imagery Mosaic + Archive	31.58	31.58	**36.84**	0.00	**1.95**
IP	Statewide Centerlines Initiative	15.79	36.84	**42.11**	5.26	**1.63**
R	Regional Stormwater System Dataset	26.32	15.79	**52.63**	5.26	**1.63**
OLD	Regional Basemap Services	10.53	**52.63**	26.32	10.53	**1.53**
OLD	Improvments to MetroGIS Geocodeer	10.53	**31.58**	26.32	10.53	**1.11**
OLD	Increased Frequency of Parcel Data Updates	0.00	31.58	**47.37**	5.26	**1.05**

6b) Priority Ranking Exercise

Each fall the Committee conducts a Priority Ranking Exercise. Metropolitan Council GIS Manager Mark Kotz led the exercise, which enables the group to determine the value and priority of projects, how the projects are aligned with the business needs and determine a likelihood of success. Kotz indicated that in the past with MetroGIS there were a number of interesting and desirable projects, however, without requisite champions, owners and work teams in place, no progress was made. This exercise is intended to give the group a starting point with objective criteria for ranking and agreeing to their priority in a work plan.

At the request of the Committee the agenda items were readjusted so the project updates could be given and considered prior to the completion of the ranking exercise.

7) Current Work Plan Project Updates

7a) Address Points Aggregation Project

Maas provided a brief update on the recent meeting in June 30 of Dakota Co, Carver Co, Metropolitan Council, MnGeo, MnDNR, MN.IT Services and MetroGIS personnel and the resulting draft pilot project plan. The plan is to test the aggregation of address points from Dakota and Carver County into the Commons using the GDRS developed by the DNR. This project is to be considered a 'research and development' prototype to test tools and assumptions for other projects to learn from.

7b) Metro Regional Centerlines Collaborative

The MRCC project is making solid progress toward the creation of a 'first build' of the regional road centerline, county GIS staff have agreed to a goal of December 7 for assembly of the centerlines from the Seven Metro Counties.

Monthly conference calls are held among the 'build team' to check in, weigh in on problems or questions and offer mutual assistance. Maas praised the efforts of the counties in their efficient work and Hennepin County project manager Ann Houghton for her continued role in shepherding the process along and directed the group to the growing body of resources on the MetroGIS website for the project.

Regarding hosting, staff from Hennepin County, MnGeo, Metropolitan Council and MetroGIS met on August 26 to deliberate on how the centerline data would be hosted and by what agency. The recommendation from that meeting was that the State of Minnesota/MnGeo would be the most suitable host as they will be required to perform this work for the NextGen9-1-1 efforts. MnGeo staff indicated that they need not wait until December 7 and can begin testing the collection, assembly and replication of the road data as soon as portions of it are ready from the participating counties.

Maas provided one final reminder, that the Metropolitan Council has extended its contract with NCompass for its centerline data through December 31, 2017; the data would be available to partners through the same terms and conditions as past agreements.

7c) Free + Open Public Geospatial Data
Maas announced that he'd received an update from Tony Monsour in Scott County that they anticipated their data portal to be open and a resolution passed at the county board in late September. Maas indicated that he has been in contact with Tim Wotzka in Itasca County and that they planned to open their data in early 2016. Maas was invited to speak to Rice County staff on August 10 and that county is considering the pro's and con's of opening their data as well.
Knippel: While the battles are being fought, the 'war' isn't over; we need to continue to find ways of communicating to our various leaders the value of making the data open. As we all see at budget time there are questions about impacts to the revenue stream.

Maas also introduced the group to the draft 'White Paper II' that he and Dan Ross have been developing. This resource provides answers to many of the questions coming in from Greater Minnesota counties about the terminology, legal and fiscal impacts, liability and process of open geospatial data. Maas encouraged the group to review the document and stressed that it was a living draft that would benefit from further additions, revision and research.

7d) Minnesota Geospatial Commons
Maas provided a quick update on the Commons status, that there are 250+ resources from 15 agencies on offer at the site and that the Metropolitan Council was in process of transferring its DataFinder holdings into the Commons, with 48 of its datasets currently available. Kotz indicated that eventually the Data Finder would be phased out, however it will run parallel to the Commons for the time being as the transfer is underway.

7e) Statewide Centerlines Initiative
The project remains entirely within the wheelhouse of MnDOT and no update was given. MetroGIS partner efforts have been focused on the MRCC effort, which is regarded as the 'advance guard' and 'research and development' wing of the statewide effort at present.

7f) 2016 Aerial Imagery Collection
Mark Kotz gave a short update on the status of the initiative. He re-stated the business need of the Council for 1', leaf-off imagery in Spring 2016 and the desire of the Council to partner with other interested agencies in the collection effort. He also acknowledged the Master Service Contract effort at the state was a big behind in the schedule where it should be. Chris Cialek remains the key contact for the Master Services Contract.

7g) Address Points Editor 3.0
Maas reiterated that the Editor Tool Version 3.0 has been available since March 2015, and that at present there are no formal plans for a Version 4.0, however a few tool improvement recommendations have been documented by Tanya Mayer at the Council. Kotz stated that if the county users of the tool wanted to see a version 4.0 or other improvements, they are encouraged to tender a project request through the MetroGIS work plan process.

7h) Regional Stormwater Dataset Update
Maas indicated that no new work has occurred on the effort, however, he does take the occasional call from interested parties and will document their business case for a region-wide dataset. To date 15 agency business cases have been documented, and a list of up to 20 more are waiting to be interviewed. As this project is the lowest priority on the work plan, other projects have received more effort to date.

Return to 6b) Priority Ranking Exercise:

After the current project updates and conducting the exercise with the group, the approved ranking of projects looked like this:

Project or Activity Name	Status	Work on in 2016	Committee Rank	Priority Score
Address Points Aggregation	Active	y	1	561
Metro Regional Centerlines	Active	y	2	440
Geospatial Commons	Active	y	3	423
Free + Open Public Geospatial Data	Active	y	4	418
2016 Metro Aerial Imagery Collect	Active	y	5	410
Historic Aerial Imagery Mosaic/Archive	Proposed	y	6	407
Statewide Park & Trail Data/Standard	Proposed	y	7	320
Statewide Centerlines Initiative	Active	y	8	279
Regional Stormwater Dataset	Research	y	9	124
Increased Frequency of Parcel Updates	*Inactive*	n	10	63
Creation of Regional Basemap Services	*Inactive*	n	11	62
Improvements to MetroGIS Geocoder	*Inactive*	n	12	46

The only funding request was the Historical Aerial Imagery Mosaic/Archive project with requested $5000 from the MetroGIS budget.

Motion by Kotz to approve to grant the request of the Borchert Library/CURA for $5000 for the Mosaic/Archive project pending they satisfy the copyright and legal availability of the images. Second: Bitner; unanimous approval, depending on the copyright findings of the Borchert on the old imagery.

Mattke and Maas agreed to circulate the copyright information and decision after it has been researched and cleared.

Bitner: Are there any other requests for MetroGIS budget?

Kotz: None that we've heard of so far.

The above priority list will form the basis for the 2016 Work Plan to be drafted and approved by the group at its November meeting.

8) NextGen 911 Briefing

Adam Iten of MN.IT Services provided a status update on the data collection, review and progress of the NexGen9-1-1 efforts around the state and what that means for the GIS community. His slides are available as an appendix to these notes.

He stressed that one of the challenges is that multiple networks are in play and that many technological paths are in place from the point of call into the 911 system. He praised the efforts of the metro community in their development and deployment of address points and streets which will be required data for the project.

He stressed the need for work in the area of cleaning up dispatch boundary data and better integration between GIS and traditional methods used in the emergency response community.

Current tasks completed or in progress for the NextGen911 effort:
The PSAP Request for Information – Summary Report;
NG9-1-1 GIS Data Assessment and Preparation work;
Map View and Editing Tools for counties and agencies that need them in Greater Minnesota
Development of NextGen 911 data standards in Minnesota (MRCC work falls into this)
Development of a Communication Plan

Iten stressed that they received a strong response on their recent survey to the emergency services community, with 95 of 105 agencies responding and providing feedback.

One of the key challenges identified is that each dispatch center has a different version of mapping software, implies that aggregating data and updating the maps will be a challenge. Also, not all counties are in the same level of maturity regarding data development, there are 'superstar' counties and there are others that are not as advanced and need help to get up to speed.

Knippel: Working with NextGen9-1-1 is going to be helpful to make another connection and heighten awareness to our county administration and elected officials about the importance of GIS. We've all been developing all this data, it serves numerous public purposes and helps in reinforcing the whole message of what we are doing collaboratively. I'd like to see this be part of the larger public awareness of what we are going serving these multiple uses. Our communication channels are generally behind the scenes, our departments and technical level folks work well together, but its time we had things more visible and show how important it is at a state level.

Swenson: Adam, what are the current communication paths?

Iten: The state is broken into seven ECN regions; these align with the Department of Public Safety areas. We envision reaching out these areas on a quarterly basis for meetings, directly to the PSAP managers. As for communication, we use the ECN website as the hub, we send out monthly communications, emails to managers, a newsletter. We recently assembled the GIS Subcommittee and had a good turn out with at least one member from each part of the state.

Knippel: I think we'd like to be looped in on press releases on the SECB and 911 work to the larger community. We need messaging for a collaborative effort, to help us continue to demonstrate the value that we are bringing.

Swenson: MESB board should see the presentation you are doing, the timing is right to get that effort moving forward.

Knippel: We need to emphasize the role that counties and cities play in developing and maintaining the data; it is generally perceived as free and 'just happening'. We need a way to message that value.

Iten: We do emphasize the work of the MRCC project, this fits in line with what we need to do. The metro is really ahead of the game in getting this rolling; I was on a call with folks connected to NSGIC and they mentioned it, so we are getting national recognition of what is happening here. We are relying on MRCC to be our guiding project for the road work and the other work you are going on address points too is vital. We are also working with the counties of Northeastern Minnesota, the Arrowhead Region as our early group; coming up with a plan for them to integrate county by county and as a region. In other parts of the state, especially county that have limited GIS or no tools, we are working to get the red lining capabilities up to identify, document and resolve their issues.

We will we working to create standards around required layers, put out official email for standards work group. We have asked for and identified key individuals to help join that work group to push the standards along, one person for each ECM region at least is desirable. In the metro we are working with Gordy, Marcia, Vic from Ramsey County and Warren from Hennepin County. One of our first goals is to come up with a clear definition of completeness for the six required GIS layers. I don't want to see the standards work drag out, let's get it done and version it out as needed.

9) Lightning Round Update

R. Knippel (Dakota County): I'm providing updates from two perspectives, first from the Data Producers Work Group which is a subset of the Eight County Collaborative group which we've been tasked to assemble by our County Administrators, we have moved to totally over lead the thing by dedicating the first half hour to the NextGen9-1-1 agenda which includes Chisago and Isanti County as standing first half our of that meeting. We meet monthly, really enables us to maximize use of the time, in that group, focus has been on MRCC, NG911 work, significant time doing roundtable to share what's up and ideas they have opens up opportunities for collaboration.

From Dakota County: As I mentioned earlier, it's budget time and we need to be able to continue to show the value of open data. Another thing we've been using more and more are Geospatial PDFs, especially in our parks maps, including signs for the You Are Here signs and maps. We've found the Avenza PDF map tool for creating and working with these, the only difficult part is getting our county staff to see them and use them. Regarding the USNG, we now have four counties, Dakota, Carver, Anoka and Ramsey that have their maps completed and available.

Brad Henry (University of Minnesota): As I have mentioned in past meetings, we are continuing work on the MN2050 initiative, we've completed our infrastructure survey having reached out to all the cities and counties in the state as to who is doing asset management and what kinds of facilities are you maintaining, MnDOT funded the project, Wilder is doing the analysis, and the results are interesting.

Gordy Chinander (MESB): I thing Adam (Iten) pretty well summed up what we're doing in his presentation.

Carrie Magnuson (Ramsey Washington Metro Watershed District): No update.

Ryan Mattke (Borchert Library): I'll note that we did recently release and publish over 4000, 1:1200 scale maps and images of the city of Minneapolis from 1938 through 1993.

Ron Wencl (USGS): We've wrapped up the state summaries for the national hydrography study this will help shape the data requirements program and revise our revise data plan accordingly. Our 3D elevation program (3DEP) of high quality level-2 vertical accuracy imagery continues to move. Pre-proposals for 3DEP are due next Tuesday, to date there are no proposals from Minnesota. I hope to announce at our next meeting that we have started our newest round of 1:24,000 topographic map production, it is set to kick off in October.

Len Kne (U-Spatial): I've got some updates on the solar potential project. We have presented on that previously, it's a statewide LiDAR data, essentially a raster showing solar potential. Recently we've acquired funding from the Minnesota Department of Commerce to help solar installers for getting their state incentives, this involves shade determination and validation with the goal of fewer people having to get up on rooftops to take readings. This is really a nice conclusion to the project, and moving forward MnGeo will be hosting the data and the applications. U-Spatial will also working closely with the MN2050 initiative, we've received a small grant from the University to conduct mapping work to support that.

Adam Iten (MN.IT Services) At the GIS/LIS Conference, I will be doing a 25 minute presentation on the NextGen911 and participating in a 90-minute birds of a feather session on emergency services standards.

Eric Menze (Resource Data, Inc.): We are seeing a sizable increase in our IT support as more companies merging GIS into their IT departments.

Curt Carlson (Northstar MLS): No update, 'business as usual' at Northstar MLS.

Pete Henschel (Carver County): No update.

Jessica Fendos (Ramsey County): We have loaded Version 3.0 of the address editor tool and are testing it with the cities in Ramsey County and working to add points in. We have hired a GIS developer; one of his early tasks will be to enhance MnDOT's set of conflation tools so we can better assign MNDOT data to the MRCC line work. Also, I'll mention the State of Maryland is piloting an application to aid in edge-matching streets between jurisdictions. MnDOT organized a short webinar to gauge its value for their Statewide Street Centerline effort. Maryland is willing to share the code when completed, and it is likely that it may be helpful for the MRCC effort, depending on when it becomes available.

Jeff Matson (CURA): Just a quick reminder, classes at the University begin in a week, if you are looking for interns we can connect you with them. I will also be giving a lightning talk on the Minnesota for the American Community Survey, this is to educate our congressional delegation on the importance of continuing funding for the ACS in the 2020 Census and maintaining the ACS as a much-needed and much-used resource.

Mark Maloney (City of Shoreview): I want to remind everyone that a year from now the International Public works Congress and Exposition will be held here in the Twin Cities. Great opportunity for exhibitor space, and there is increased interest in the intersection of GIS and public works and asset management.

This conference is a big deal in the public works world and is a great opportunity to expose your group to public works.

Ben Verbick (LOGIS): For a moment, I will put my MN GIS/LIS hat on and remind everyone if you haven't done so to please register for the conference coming up. With LOGIS not a lot is new, we are doing a lot of work in the public safety arena, and we will be publishing ISO fire response times along centerline information from the all sources we have.

Mark Kotz (Metropolitan Council): see that the Consortium just announced the Polaris winners, so I will announcement them here: the winners in 2015 are Sonia Dickerson, Dave Fawcett and our very own Matt Koukol, so be sure to pat them on the back when you see them. As I mentioned earlier, we are moving the Council's data into the Commons. The metadata will appear in both places for a while we will be in a transition period and when we are comfortable with the stability of the Commons we will take the Data Finder down. IF any of you publish on the Data Finder, you have been or will be contacted to re-direct your data.

Nancy Read (MMCD): We have been having some IT changes here, and by the next time we meet we will have wi-fi; we've encountered some technical issues but it is coming. We are in transition with IT staff so I am overseeing the staff right now. We've got our field collection application running, and using it for identification of mosquito habitat, we basically use phone to pull up the parcel address and have it our database. We are always on the lookout for aerial photos so please let me know when you have new ones available.

Knippel: Dakota had a flight this spring; those ortho images should be up in a month.

David Bitner (db Spatial): I wanted to remind the group that the annual NACIS meeting will be occurring here in Minneapolis the week after the MN GIS/LIS Conference.

David Brandt (Washington County): I spoke last week to the Minnesota Association of Assessment Professionals and gave them a lot of info and tidbits about GIS, they were very interested in the work we were doing, I highlighted the work of the Eight county Collaborative, MnGeo, MetroGIS and the MN GIS/LIS Consortium, and tried to show the whole gamut of work that we do, they were pretty blown away by what we are dong collectively.

Erik Dahl (EQB): No update

10) MetroGIS Coordinator General Updates

Geoff Maas (MetroGIS): A couple quick updates, we had our annual policy board meeting on Wednesday, April 29, 2015, a key feature of that meeting was several representatives providing examples of how free and open data is being used and is benefiting their organization. As per our new structure, we convene the policy board once per year, we will meet again in April 2016.

The new Memorandum of Agreement/Contract is in draft form. I've worked with procurement and legal staff at the Council and provided that document to the counties to get their input. The Council would continue to provide the annual $4000 payment for two years, with two 1-year extensions possible through the end of 2019. Under the agreement the counties would continue their current practices of providing parcel data quarterly in standard, provide address point and centerline data quarterly (as

available); and providing updated municipal boundaries that Council staff uses as a template for updating the regional boundaries.

I was very fortunate back in May to be invited to Thunder Bay, Ontario, Canada to speak to the Northwest Ontario Innovation Centre on what we are doing here in the metro with GIS and data sharing, they were impressed with the level and scope of our efforts.

Finally, at the conference this fall, myself, Matt Koukol and Ann Houghton will being doing a panel on the MRCC effort, Ryan Mattke and myself will be doing a lightning round and a poster on the Ian McHarg map collection and I'll be doing a presentation on the recovery of New Orleans, 10 years since Hurricane Katrina.

11) **Next Coordinating Committee Meeting**: **December 3, 2015**

12) **Adjourn**
Chair Dahl adjourned the meeting at 3:41 pm

MetroGIS Coordinating Committee: Meeting Minutes
Thursday, December 3, 2015, 1 PM - 3:30 PM
Metro Counties Government Center, 2099 University Avenue, St Paul
Minutes Approved – March 24, 2016

In Attendance:
Matt Baker, Metropolitan Airports Commission
David Brandt, Washington County (Vice Chair)
Curtis Carlson, Northstar MLS
Erik Dahl, EQB (Chair)
Brad Henry, University of Minnesota
Pete Henschel, Carver County
Len Kne, U-Spatial
Randy Knippel, Dakota County
Mark Kotz, Metropolitan Council
Matt Koukol, Ramsey County
Mark Maloney, Shoreview
Eric Menze, Resource Data, Inc.
Nancy Read, Metro Mosquito Control
Dan Ross, MnGeo
John Slusarczyk, Anoka County
Ben Verbick, LOGIS
Sally Wakefield, MnDOT
Hal Watson, DNR
Ron Wencl, USGS

Guests:
Jeff Bloomquist, USDA, Farm Services Agency
Jon Hoekenga, Metropolitan Council

Absent:
Hal Busch, City of Bloomington
David Bitner, db Spatial
Gordy Chinander, MESB
Carrie Magnuson, Ramsey-Washington-Metro Watershed District
Jeff Matson, CURA/Non-Profit
Tony Monsour, Scott County
Gary Swenson, Hennepin County

1) Call to Order
Vice Chair Brandt called the meeting to order at 1:05 pm
(Chair Dahl arrived at 1:10 pm)

2) Approve Meeting Agenda
No changes advanced; approved by group consensus.

3) Approve Meeting Minutes from August 27, 2015
No changes advanced; approved by group consensus.

4) Election of MetroGIS Chair and Vice Chair for Jan 2016 – Jan 2018
As per Article III, Sections 6 and 7 of the MetroGIS Operational Guidelines and Procedures, the Coordinating Committee is to elect from its membership a chair and vice chair to serve a two-year term. Current Chair Dahl and vice-chair Brandt have both expressed interest in serving another term in their respective offices and no other candidates self-identified as being interested in the positions. Dahl and Brandt were re-elected unanimously by the members of the Committee.

5) Update on copyright issues regarding old aerial imagery
At the August 27 Committee meeting, representatives from the University of Minnesota advanced the 'Historical Aerial Imagery Mosaic' project idea. The Coordinating Committee approved the project and its request of $5.076 from the 2016 MetroGIS budget on the condition that it demonstrate that the correct permissions were in place to redistribute this archival data and

Ryan Mattke (Head of the Borchert Map Library) and Geoff Maas documented these concerns and advanced them to their respective legal, finance and procurement contacts. Both the University of Minnesota and Metropolitan Council were supportive of the project, acknowledging there was minimal risk to either agency in redistributing the data. The agencies cited these are essentially public data resources that were paid for with public dollars for public purpose and that the existing practice of the Minnesota Historical Aerial Photographs Online (making archival aerial imagery available since December 2008) without requests from past vendors to remove them from the service.

Should a past contracted aerial imagery vendor approach either the Borchert Map Library or Metropolitan Council about the publication of this archival material, the agencies will respond to their specific concerns at that time.

6) USDA: Farm Services Agency Update Presentation
Jeff Bloomquist, GIS Coordinator and EM Coordinator with the Minnesota State Office of the USDA, Farm Service Agency gave a twenty minute presentation on the current and future work of his agency.

Highlights of his presentation included the mission, purpose and work of the FSA, the types of geospatial data they consume and produce for their customers, the 'common land unit' polygon they use for working with farm program participants, their participation in and extensive use of the NAIP imagery (the next full flight of which is anticipated for 2018), the role and actions of the FSA in disaster response work (damage to farmland and farm infrastructure), specifically the FSA's actions in flood recovery, tornado recovery and wildfires. He described how the 'common land unit' dataset is protected under Section 16-19 of the Farm Bill and how sharing their data with other governments is not possible at this time.

Jeff went on further to describe how they combine their data with that of the National Weather Service for documentation the storm or other weather event damage to create narrative maps and help pin point sites for recovery. As an agency primarily concerned with agriculture, the focus of the FSA is primarily on rural areas, not urbanized areas of city features. In times of serious weather events, the FSA is able to share their data with appropriate emergency managers.

Jeff indicated that the FSA was in the process of ramping up its ArcGIS OnLine presence with both internally facing and externally facing sites, this is taking some time as the FSA is a federal agency; all state sites need to be uniform in content and design. Additionally, he indicated that the FSA was already working with agricultural producers in Minnesota on the forthcoming buffer protection initiative.

Questions for Jeff from the group included interest if the FSA were to be using drones *(not at present, put the future potential is being assessed),* how the FSA contracts for aerial imagery *(the FSA has an aerial photography field office that handles all the contracting through its list of vendors)* and about the protection and confidentiality of the data maintained by the FSA *(to avoid speculative commodities trading, protect farm program participants identities and other related security concerns).*

Jeff can be reached here:

Jeffrey M. Bloomquist, GIS Coordinator & EM Coordinator
USDA Farm Service Agency, Minnesota State Office
375 Jackson Street, Suite 400, St. Paul, MN 55101
651.602.7728 (Direct)

7) Address Editor Tool Discussion

Maas provided a brief context of where the Editor Tool is at present: as of mid-2015, the budget for maintaining the maintenance Purchase Order through the Metropolitan Council has been exhausted. The current status of the tool is as follows:
- Version 3.0 was completed and made available in March 2015
- Version 3.0 is in use by several stakeholders and data producers in the metro;
- No "Version 4.0" has been identified by the stakeholders for the 2016 MetroGIS Work Plan;
- No budget has been formally identified or committed for future enhancements;

The Metropolitan Council funded and maintained an on-going Purchase Order for services that included: completion of fixes to various reported bugs identified by users; user installation support and an update to support ArcGIS Server 10.3;

Metropolitan Council staff has been collecting a list of concerns, 'bugs' and as well as ideas for enhancements and recommended improvements from the stakeholder and user community regarding version 3.0 of the tool. Two optional enhancements—which were part of the discussion for Version 3.0—were not completed during this past contract, these include, expand the searchable fields within the application; providing support checks for street name discrepancies between the address point and adjacent centerline or parcel. Several new suggestions for enhancements have also been submitted, these include expand searchable fields, providing support checks for points/centerline discrepancy; better ability to use the application in mobile environment, more flexibility in the 'config' for different database schemas and adding the ability to process address points in bulk;

If we gathered our current group of Address Editor Tool users and stakeholders for a session to discuss current 'bug' issues and ideas for enhancements, we could very likely have enough information and rationale to develop a 'scope of work' for a Version 4.0 of the tool. At present, the project is not formally on the MetroGIS 2016 Work Plan. For MetroGIS to move on the project and for it to be eligible for MetroGIS budget funding, it needs to be prioritized in context to the existing list of projects and added to the annual work plan document.

The Committee then had an open discussion of approximately 30 minutes on the topic.

Ross: Essentially we (state) are in a holding pattern, we have not yet chosen a 911 vendor for the state yet, when we have, it we can roll this out statewide. To date we have 47 (of the 87) counties providing address points, and as you might imagine, they are a mix of authoritative points, parcel centroids ,points on buildings, ends of driveways, on street centerlines, and so on. Our goal, which we share with this group is to have both a common schema and a common set of tools. When we begin evaluating the tools offered from vendors, we will want this group to provide input and help with that review.

Ross indicated that the State of New York has deployed an enterprise license for a vendor solution and given out the tools to local governments at a cost of approximately $2 million/year, however Minnesota does not have that level of budget committed to address points at this time.

As these data are tied to the centerlines and utilized in the 911 schemas the state will offer validation work and can point out any discrepancies and issues in the data as an on-going process. IT is anticipated that the address points will be integral to the state system, the state will take the call and route calls to the local PSAPs as they come in.

Questions for Dan on the state-level initiative included: would local authorities be updating and modifying a central database or still having county-level aggregation and pushing it up to the state *(there would be options for local and state hosting, may be able to edit individual records and do batch uploading)*, would address points be available as a web service *(yes, this is desirable along with additional caching tools)* and if there would be an avenue or process the discrepancies when authoritative sources potentially conflict with one another on the address points *(state and regional users will have the means to document discrepancies they find and bring these back to the counties and cities to resolve)* and the timeline anticipated for the state deciding on a tool and roll out (3 years, metro and northeastern Minnesota will be first, looking to start pilot projects in summer of 2016) and how does the existing MetroGIS Address Editor Tool fit into the discussion *(offers a challenge to users in Greater Minnesota as it requires an ArcGIS Server Implementation, state does not have the resources to implement that for users statewide, however there is the potential for a regional 'host' county to pull together the data for its neighbors).*

Ross cited that in New York, they have rolled out two versions of their tool, a desktop version and a web based version, by offering the free tools to the local address authorities they can then get the data in the standard which in turn saves them time having to do a huge amount of validation. He anticipates a blend of centralized and distributed tools in Minnesota and will be looking to the metro counties to help in evaluating the tools.

Mark Kotz asked the group if there is anything specific that needs to be done in the interim with the existing tool and put the proposition to the counties that if they want to see things take shape they can bring a proposal to the Committee for review and action.

Randy Knippel indicated that between now and the eventual deployment of forthcoming state tools that Dakota County and its cities would be making use of the existing version 3.0 of the editor tool.

Matt Koukol indicated that if something were done to advance a version 4.0 of the metro tool that the most advantageous action for them would be in modularizing the code and making the code sharable

(which is not permitted under the current vendor contract). Matt cited that every county has different challenges getting it going, but being able to get into the code and pull it apart would help them move forward more quickly.

Knippel expressed concern that the MetroGIS tool would be relegated to being simply an interim solution or 'throw away' tool.

Ross indicated that the existing MetroGIS tool will be part of the forthcoming statewide evaluation and to gauge their interest and ability to participate in a state-hosted solution as well.

Kotz contributed that the metro tool was a point of beginning and got things moving and reminded the counties that if they as current users want to formally propose a modifications (modularizing the code, etc.) or a solution and are encouraged to come together, develop that proposal and bring it to the Coordinating Committee.

Ross added that having the cities using any tool is valuable, that getting this work into practice through any means is good forward progress, regardless of the tool.

Knippel reiterated that counties have has limited leverage with a county's constituent cities, however, direction—and potentially resources as well—from the state, especially with the needs of the 911 work ahead, puts everyone in a better position to work together and get things done more efficiently. He also restated that having a single contact person in each city to handle addresses is desirable.

Read stated that at previous policy board meetings, officials always respond well to all things around emergency response and that address points are integral to that effort should we need their support.

Ross related that in recent conversations with DPS they are working to fully understand the full set of resources (human, infrastructural, technological) that will be needed for a statewide implementation and the necessity of approaching the Legislature for the needed funding.

Knippel added that while 911 remains a huge driver, there are so many other benefits to be leveraged. Even if 911 work is the main push for it, the uses for address points, road data and other data is broader, reducing the duplication of effort, cost savings, richer better data available to all users.

Ross agreed and cited that in his conversations with partners in Greater Minnesota, the PSAPs are curious about how the state is going to make their data available and identified the challenges that when PSAPs roll to one another, they don't always have one another's data. He also indicated the use of Google as a de facto solution when they don't have each other's data. He further acknowledged that this continued to evolve and he wants this group (MetroGIS) to be a large player in those discussion.

Kotz reiterated that the current tool has been a good start in getting cities and counties working together and building relationships, we continue to learn what does and doesn't work and the current work and feedback will be useful to the larger state effort.

8) Brief Updates on Current Work Plan Project Items

8a) Address Points Aggregation Project;
Jon Hoekenga of the Metropolitan Council provided an update the progress of the Aggregation Project. He reiterated that the primary goal of the project was to develop efficient workflows which support continuous (sustainable) standardization, aggregation, publication and availability of geospatial data. Key requirements and task of the project include examining how to leverage existing technology and available from the Minnesota Geospatial Commons to gather and publish data; to test and assess the efficacy of the proposed workflow with two data producers (Dakota and Carver counties); make process easy for other data producers to participate; and assess and report how the process could be used for other inter-agency data aggregation needs such as road data, park and trail data or parcel data. To date the project as developed its schema validation tool, completed set up of FTP accounts for data producers and test data has been posted in the staging area. Remaining tasks for the end of 2015 and beginning of 2016 include completion of the backend aggregation and validation process; the creation f of a package for other data producers to use so they can easily contribute data using the same workflows. Project participants include Hal Watson and Zeb Thomas of the DNR, Brent Lund of MnGeo, Joe Sapletal of Dakota County, Pete Henschel and Chad Riley of Carver County, Jon Hoekenga of the Metropolitan Council and Geoff Maas of MetroGIS.

8b) Metro Regional Centerlines Collaborative
Maas reported on the steady progress of the MRCC initiative, the Build Team (GIS staff at the participating counties) have been making marked progress toward the December 7 goal for 40-60% of the attributes populated, data edge-matched and ready to be ingested by the MnGeo hosting method. The MRCC team has been having monthly phone conferences (9/17/15, 10/15/15 and 11/25/15) to document progress and relate any issues. On December 10, MnGeo will put on a 'hosting demo'. After the December 7 goal, the first aggregation will begin and all issues related to aggregation will be documented to work out any remaining bugs. The first version of the MRCC dataset is anticipated to be in production by March of 2016.

It is anticipated that the Core Team (County GIS leadership) will need to convene sometime early in 2016 make decisions on many of the issues revealed through the build process in late 2015. Maas is documenting these issues and will present them to the Core Team in a method of their choosing. All MRCC documents are up to date and available on the metrogis.org website.

8c) Free + Open Public Geospatial Data
Maas extended congratulations to Scott County, who on October 6, 2015 became the latest county in Minnesota to formally adopt a free and open data policy; their data portal is also up with downloadable data available (http://data.scottcounty.opendata.arcgis.com/). Itasca County in northeastern Minnesota is planning to open up their data in January 2016, it is unknown if they are adopting a formal policy or simply putting their data on a portal. Rice County GIS Coordinator Michelle Trager presented the free and open data issue to the Rice County Board on November 2, 2015 receiving support from county surveyor Mike Fangman.

On March 5-6, 2016, Hennepin County will once again host a second code-a-thon event (called "Geo:Code 2.0") as it did in February 2015. This year's event will be held at the Bruinincks Hall at the University of Minnesota and the invitation has been extended to the larger metropolitan regional community. A planning kick-off meeting was held on November 19 with representatives from Hennepin,

Carver, Washington, Ramsey, Dakota counties and the Metropolitan Council in attendance. Kelly Clausen at Hennepin County is the lead organizer of the event.

At present, nine counties in Minnesota are making their data freely available without a policy, eight have adopted a formal policy and three others are actively considering or moving toward free and open data.

A second 'white paper' resource "Free + Open Public Geospatial Data in Minnesota: Questions, Answers, Concepts and Resources for Practitioners"—remains available on the *metrogis.org* free and open data project web page. This document is in its 'third draft' and is intended as an informational resource to the geospatial community. This document is has been updated and revised in response to the requests received by the geospatial community especially professionals working in county departments in Greater Minnesota.

The group recommended that the 'counties adopting a policy' map should be changed from purple to a dark green and the 'open data/no policy' counties should be changed to a light green, Maas agreed to make those changes in subsequent editions of the map.

8d) Minnesota Geospatial Commons
Dan Ross indicated that the Commons continued to expand its data offerings, and as of December 3 has 504 resources available from 15 different agencies. The largest contributor to the Commons at present was the Metropolitan Council, followed by the DNR and Dakota County. Dan indicated they would be seeking additional storage capacity given the recent attempts of counties to add their data to the Commons.

8e) Statewide Centerlines Initiative
Dan Ross indicated that the NextGen911 will be the leading platform over esri Roads and Highways as was originally thought. A 'cut' of the NextGen911 roads will be carved out through an ETL process and sent to MNDOT for their various uses. MNDOT will continue its process of integrating local and state road geometry and is in process of sitting down with each county to figure it out, conflation work is started in Ramsey County and we'll be sitting down with Carver County very soon.

Matt Koukol reiterated that it is generally the case the locals have more roads than MNDOT carries in its system and this is problematic for automated conflation. Ramsey, for example, has several hundred more features than MNDOT, this remains in process and development.

Ross also provided a brief update regarding FirstNet, the effort to build broadband for public safety; and the on-going need for public service entity boundaries which helps the federal government to understand how emerge response occurs in Minnesota.

8f) 2016 Aerial Imagery Collection (Metropolitan Council staff)
This Metropolitan Council needs to fly the entire seven county metro area in spring 2016 for leaf-off imagery. The MetCouncil is contracting with MnGeo to lead/coordinate (via an inter-agency agreement) this imagery collection effort. In a parallel effort, MnGeo is working on a 5-year Master Services Contract for imagery. If the Master Services Contract is not in place in time for the spring 2016 image collection project, the Council will still use MnGeo to coordinate the effort using the inter-agency agreement process. The Council has a maximum budget of $160,000 earmarked for the aerial collection. Agencies interested in participating in the project are encouraged to contact Chris Cialek at MnGeo (*chris.cialek@state.mn.us*).

8g) Address Points Editor 3.0
This future of the Address Point Editor tool was discussed as a separate agenda item (Item #7)
As version 3.0 of the tool was completed in March 2015 and is in use by several stakeholders, the project as originally conceived is considered completed.

9) Vote to Adopt 2016 Work Plan
Maas reminded the group that the draft plan was made available on October 27 via the metrogis.org website, and that no revisions were suggested by the Committee members, during its review period. Henry made a motion to adopt the 2016 plan as is, seconded by Kotz, and the Committee unanimously adopted the plan and its budget for 2016.

10) Lightning Round Update

Brad Henry (U of Mn): Reminded the group of the work he is part of with the State of the Infrastructure MN2050 Survey. The results of that survey are in and available here: http://mn2050.org/survey/. The survey report contains 16 pages of charts and detailed analysis of the resulting data. Henry made note that small cities are managing up to 17 different asset categories, more than half of large agencies such as MnDOT and the Metropolitan Council, and went on to state that they received better response from Greater Minnesota participants than from the metro region.

Randy Knippel (Dakota County): Noted that Dakota County has received its 2015 ortho imagery at 6-inch resolution. Dakota County does its own survey control and found the imagery to have exceedingly good accuracy (0.8 feet/~95%). The county partnered with the City of Northfield (which is partially in Dakota County). Dakota County, similar to Washington and Anoka counties has implemented next generation of interactive GIS through WebGIS; based on html5 and JavaScript which makes it compatible with mobile devices. The WebGIS Deployment is running smoothly with no issues. Dakota County remains interested in partnering with the Metropolitan Council on the 2016 aerial imagery collection and will be engaging its cities on the topic.

Matt Koukol (Ramsey County): The County just released an asset management RFP yesterday and our new aerial imagery is due in next week and we anticipate our impervious surface data and physical features data to come in early part of next year. Regarding the Address Editing Tool, we have engaged in training for about half the cities in Ramsey County and also moving to HTML5 for the MapRamsey to facilitate mobile use.

Pete Henschel (Carver County): We are working with our cities and have established an 89-mile fiber optic ring with all of our cities. We will also be hosting and publishing city data for three of our cities in the next month.

Sally Wakefield (MnDOT): Good to be back on the group, I'm now representing MnDOT.

Curt Carlson (Northstar MLS): I recently had a good chat with Mike Dolbow and connected with Chris Meldrum at the Minnesota Department of Health to use their website can search for well data; there is a significant real estate interest in the availability of well sites. Since 2008, it has been a requirement to disclose the presence of a well on a property
Requirement to disclose MDH since 2008 to disclose a well when there is a property transaction, and we've got this got this well data going back to 1993. We are working with this archival data; working with it and how it can be used by the MDH. We have different interests, but we are looking at ways to

fuse it up. Also we've been integrating statewide parcel data in Wisconsin into our real estate system and it's pretty astonishing, we looking at 3.4 million parcel records, 99% of the state, version 1 of which has been out since August 2015. This makes a lot of our work in real estate really effiicnet, faster in producing listings and so on.

Ron Wencl (USGS): First, I want to tank Jeff Bloomquist for coming, it's night to have another 'fed' in the room. We (USGS) are certainly big users of the NAIP imagery. We are wrapping up the hydrography benefits study, we had members of this group and others in the state contribute for which we're grateful.

Matt Baker (Metro Airports Commission): We are working to get address points assigned to everything associated with the MAC.

John Slusarczyk (Anoka County): We've wrapped up our first batch of roads for MRCC and otherwise it's "business as usual".

Nancy Read (Mosquito Control): Our staff is doing its winter work which is focused mostly on wetlands mapping, pulling in available aerial photos from the metro counties, we're always looking for news and updates on imagery. Also, I'm still looking for good examples of policies about using your personal device for work, if you have something you can share that I can review. One other thing, I had my furnace worked on, and the guy showed up and knew the square footage of our place, testament to the fact that the parcel data is being used out there

Dan Ross (MnGeo): One more update, the MnDOT Crash Application, we've now got GIS in every law enforcement vehicle in the state better able to record and locate crashes.

Ben Verbick (LOGIS): No update

Eric Menze (Resource Data, Inc.): No update

Hal Watson (DNR): Let you all know there is a website now up on the DNR buffer mapping project: http://www.dnr.state.mn.us/buffers/index.html The site contains some good explanations of the project and provides answers to common questions as well as providing a link to a viewer of the current protected waters under consideration.

 We've also been working with counties on an application to identify local water access sites. We're working with ecological services, helping distribute funding around invasive species initaitves and protection efforts at local water access points. We've been able to put together an ArcGIS JavaScript API with authentication outside our internal network that allows authorized users at the county level to add data to the dataset, verify it and edit data that they've gathered already. This data will be used to help distribute those funds. I'll mention also that ArcGIS Collector is taking off in our agency, we are seeing many spin off apps from it.

Len Kne (U of MN): Pass

Jon Hoekenga (Metropolitan Council): We will be formally retiring the DataFinder on December 15, all the Council and MetroGIS data are fully migrated to the Commons.

Mark Kotz (Metropolitan Council): Although we've retired the DataFinder, we still have datafinder.org being retained by the Council and there is potential to have that point directly to the Commons. Following up with what Hal mentioned, we are also focused on ArcGIS Collector apps for sewer infrastructure inspections, we are being asked for them and Jon has been able to meet with those who need it and perform a 'mini-needs assessment'; they are very pleased with our ability to get them built and to be able to use them in the field so quickly. The MetCouncil is part of the State's enterprise license agreement with esri and we have signed on with that. The Statewide Geospatial Advisory Council has chosen to rename itself as the MN Geospatial Advisory Council. The group has a new chair, me, and we are seeing it becoming more driven and active, and we are rethinking the governance of the group how that will work. We have established a leadership team of 5 people, myself, David Brandt, Blaine Hackett, Michelle Trager and Victoria Reinhardt to flesh out things to bring to the team to work with and we can really hit the ground running with new things. We are also very fortunate that Victoria Reinhardt has agreed to be on the Outreach Committee.

Mark Maloney: I am pleased to report that after many years of trying, my department in Shoreview got an in-house dedicated public works GIS position and we have our first tangible deliverable: the Adopt A Trail map for Shoreview. Also, we in Shoreview are in many ways 'ground zero' for the water supply issues being explored by local, regional and state interests. We are seeing how just one agency or one way of thinking can't solve or even address the water supply issues; water doesn't respect the boundaries, this will be an on going challenge.

Curt Carlson: Mark, to let you know, my family are participating in the water monitoring program in Shoreview.

Mark: Wow, excellent, thanks for doing that.

Geoff Maas (MetroGIS): Pass

David Brandt (Washington County): We are finally set to move on our own CAD-RMS Tiburon/TriTech solution. I can't put a firm date on it yet, but we are moving. Also, we have implemented WebGIS internally and it will be publicly-facing in the next month.

Erik Dahl (EQB): No update

11) Next Coordinating Committee Meeting: **March 24, 2016, 1 pm.**

12) Adjourn
Chair Dahl adjourned the meeting at 3:17 pm

MetroGIS Coordinating Committee: Meeting Minutes

Thursday, March 24, 2016, 1 PM - 3:30 PM
Metro Counties Government Center, 2099 University Avenue, St Paul
Minute Approved on July 21, 2016

In Attendance:
Matt Baker, Metropolitan Airports Commission
David Brandt, Washington County (Vice Chair)
Erik Dahl, EQB (Chair)
Brad Henry, University of Minnesota
Pete Henschel, Carver County
Mark Kotz, Metropolitan Council
Matt Koukol, Ramsey County
Eric Menze, Resource Data, Inc.
Nancy Read, Metro Mosquito Control
Dan Ross, MnGeo
John Slusarczyk, Anoka County
Ben Verbick, LOGIS
Sally Wakefield, MnDOT
Hal Watson, DNR
Ron Wencl, USGS
Carrie Magnuson, Ramsey-Washington-Metro Watershed District
Tony Monsour, Scott County
Bob O'Neill, City of Bloomington (alternate for Hal Busch, City of Bloomington)
Warren Fong, Hennepin County (alternate for Gary Swenson, Hennepin County)

Absent:
Gary Swenson, Hennepin County
Hal Busch, City of Bloomington
Curtis Carlson, Northstar MLS
Gordy Chinander, MESB
Len Kne, U-Spatial
Randy Knippel, Dakota County
David Bitner, dbSpatial
Jeff Matson, CURA/Non-Profit
Mark Maloney, City of Shoreview

Guests:
Sue Hauge, Metropolitan Council
Mike Dolbow, MnGeo
Allison Kampbell, Carver County
Matt McGuire, Metropolitan Council

Staff:
Geoff Maas, MetroGIS Coordinator

1) Call to Order

Chair Dahl called the meeting to order at 1:09 PM

2) Approve Meeting Agenda

No changes advanced; Motion: Magnusson, Second: Verbick

3) Approve Meeting Minutes from August 27, 2015

No changes advanced; Motion: Kotz, Second: Verbick

4) MN2050 Survey Update – Lessons Learned

Brad Henry provided an overview of the findings and results of the MN2050 infrastructure survey and some of the resulting outreach. With the new Federal Transportation Bill, recipients of federal funds must have a Transportation Asset Management Plan. Recently, Governor Dayton was quoted as saying Minnesota's roads, bridges and transit need more funding.

Henry outlined the findings of the recent MN2050 survey, one surprising finding is that cities (both larger and small) were managing fourteen (14) to fifteen (15) categories of assets compared to larger agencies such as the Metropolitan Council or the Minnesota Department of Transportation (MnDOT). Additionally, the survey revealed that over forty (40) different assets were being deployed by the agencies.

In terms of value, large infrastructure management agencies such as the Metropolitan Council and MnDOT account for only approximately ¼ of the total value of the infrastructure in the state. Small and large cities have the majority of the dollar value; this is in contrast to the current funding model where the state does not heavily fund local infrastructure.

Henry elaborated on the additional information gathering and continued outreach work of the MN2050 effort. He talked about the role of the Local Road Research Board coming up with a standard for asset management for counties to make use of and the efforts of the Rural Water Association to assist small cities perform their asset management work, which can hopefully be a model to be replicated across the state. LRRB recognizes that many small communities have limited resources for this work and offers a set of low cost tools to assist small cities. Many small cities, such as Ostrander (Fillmore County, population 507) and Rushford (Fillmore County, pop 1,720) are well aware of the value and status of their infrastructure.

5) Carver County Asset Management System

Allison Kampbell and Pete Henschel of Carver County's GIS Office gave a presentation on how Carver County is partnering with its constituent cities in its asset management efforts.

Kampbell emphasized the success of the work between county and city efforts as the results of their shared GIS position, county-wide enterprise license agreement, shared workflows for asset collection and management, using common data models, data sharing between organizations and network connectivity.

Initially cities in Carver County had limited GIS experience and resources, but with support from the county in processing project requests, understanding the data workflow and building relationships through the County User Group they have realize significant organizational and operational success.

Kampbell outlined the shared GIS position benefits included lowering the costs of work, speed and efficiency of getting GIS set up and running, sharing knowledge and data and sharing their workflows for asset management. By partnering with the cities, the relationships between the cities and counties has strengthened and the county's data is more accurate by leveraging and tapping into local knowledge. To further the efficiency, Carver County maintains an ESRI Enterprise License Agreement where cities can be added, with additional costs negotiated and costs being split based on population.

Regarding asset management, cities are able to use county GPS resources and equipment to collect information on water, sanitary sewer, storm water networks. Cities also desired their own paper maps, wall maps, map books and web applications which the county was able to configure and share to facilitate map creation. The city-county partnership is also leveraging the ArcGIS Online platform for viewable web maps and collector updates for maintenance; facilitating the use of tables and phones for ease and efficiency of use.

Carver County and its cities state that key to organizing the data was using the ESRI local government model; leveraging standard layers and information using best practices from the industry. Using this kept everyone from having to start from scratch, pre-set attributes and domains to build upon and later modify made things easier.

In terms of sharing data, the county hosts databases and services for the cities using ArcServer, these are managed by the Shared GIS Position, county-wide datasets are shared with the cities (these include parcels, address points, centerlines, imagery, etc.) and city data (utilities, water, sanitary, stormwater, etc.) are shared with the county departments. Cities contribute and edit local data within the county-wide datasets; partners have direct access to the data, there are no copies or ftp sites to deal with, keeping the data always in sync. Network connectivity is provided by CarverLink, fiber connection between County and Cities. The trust built up between the city and county partners enables direct access and usage of one another's live data.

Upcoming projects include working on a data warehouse to be hosted at the County, one single portal for all GIS data (city and county), developing and refining county-wide utility datasets, rolling out maintenance and inspection forms and facilitating mobile devices to do that work and the deployment of operations dashboards to managers for asset management tracking and measurement.

Sally Wakefield: I'm curious about the how other cities which are not participating, how you plan to bring them in.

Pete Henschel: We have approached all the cities in the county, and most are for participating. At present (City of) Carver have a contracted engineer and planning. Chanhassen has their own GIS staff, but she works very closely with us.

Brad Henry: When engineering projects are in the planning stage, what do you do with as built drawings?

Allison Kampbell: Either quarterly or semi-annually we send the dataset back to the engineers, most of the cities have an outside engineers for updates.

Brad Henry: Are they updating the data during construction?

Allison Kampbell: The county may do it often times these updates come from the engineers.

Matt McGuire: Are you and the cities all using ESRI to do asset management or just to store and view data?

Allison Kampbell: Chanhassen and Waconia are using Cartograph, Norwood-Young America is using the ESRI platform and Watertown is examining using ESRI. The smaller cities don't feel they need a full asset management package like Cartograph.

Brad Henry: (State Auditor) Rebecca Otto's pitch behind smart city infrastructure stress tool would be for us all to have one place to go to in Minnesota to get infrastructure data. Her office is examining how to take the lead on that.

Sue Hauge: Are there any security issues about having the data on the devices?

Allison Kampbell: The data is not resident on the devices, all the utility data is secure (Secured at the service level) users must log in to view it and use it.

6) State of the Commons

MnGeo GIS Supervisor Mike Dolbow gave a presentation on the current status of the Minnesota Geospatial Commons and tendered a request to the MetroGIS Coordinating Committee for $14,110 of its 2016 Project budget.

Dolbow emphasized the on-going collaborative approach, the Commons is not just a MnGeo or MN.IT Services effort; it's about the entire state having a resource and site to publish data, acquire data and engage. He cited that since 2014, the Commons has expanded significantly with recent contributors including Itasca County, MVTA, Dakota County, MetroGIS and the Metropolitan Council putting the number of resources available over the 530 mark, which is still growing. There is an awareness and recognition of many more potential contributors as well which are certainly welcomed.
Dolbow provided context about the architecture behind the Commons, describing how the GeoBroker enables contributors to control access to and manage their data and the roles of the FTP and GDRS in facilitating the data acquisition process.

Dolbow highlighted the on-going need for governance of the Commons; it has a strong operations team, but leadership for policy and costs decisions is also needed. Current Commons Operations Team members include: David Fawcett, Karl Hillstrom, Andrew Koebrick, Brent Lund, Nancy Rader, Alison Slaats and Zeb Thomas. Dolbow indicated that he would welcome a non-state agency member to participate on the Operations Team.

Dolbow further cited that sustainability of operations is vital to keeping the Commons up and that the governance piece will be important for that, defining how decisions are made. The team has already

worked out key decision like who can publish (organizations and not individuals), the need for registered users identified by their real name and the organization they represent and the conditions of what can be published (data should be free and open, must cover at least part of Minnesota, non-geospatial data is ok as long as it has a foreign key for linkage or contains a geocodable address. Discussions continue about CAD data, duplicative datasets (Same data produced by two agencies), aggregated data (multi-city or multi-county) and metadata expectations. Data resources hosted on the Commons may be limited due to the size of the file. New questions continue to arise and need to be addressed.
Dolbow indicated that they were in the process of drafting a governance model, and cited the example of how governance would operate on the sample topic of duplicative datasets.

The slide at right examines the sample issue of Duplicate Datasets, the Ops Team would identify the duplicates, the Ops Workgroup would determine who is the appropriate publisher and the Steering Team would allocate the time required to resolve the problem. Current ideas about Steering Team membership include including representatives from the five (5) largest publishers/contributors.
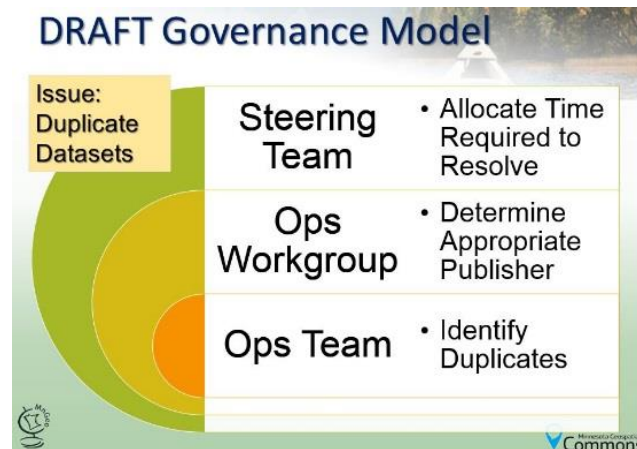
Anticipated needs and upcoming work with are currently funded include how to stabilize the infrastructure, addressing the disk capacity needs, reduction of GDRS duplication and diversifying the publishing methods. Unfunded, but also much needed activity, includes streamlining the implementation of new data types, tiling of datasets, data aggregation, prioritizing search results, and prompts to data publishers for updates and issues and harvesting data in and out of the Commons.

Request of funding from MetroGIS 2016 Budget. Dolbow tendered a request of $14,110 to the Coordinating Committee from the 2016 MetroGIS budget, this is intended to compliment anticipated and committed contributions from other agencies including MnDOT, MPCA, Department of Agriculture and the Department of Health. Contribution to the funding of the Commons positions MetroGIS to have increased input on the resource and its governance.

Mark Kotz: We see that we're at the point with the Common's development that there is the hope that non-state partners are being invited to publish. Do you have a plan to ask for funding from those interests as well or is that still in discussion?

Mike Dolbow: I believe I will pass that over to Dan [Ross] to answer.

Dan Ross: We would like to not have to charge anyone, however, it does have a cost to maintain. Our executive leadership indicates that we have costs we need to recover. MnGeo covers a significant portion from its General Fund allotment, and in the near future I do not see a scenario where it will be completely free. Some of the specific things we are working on such as more storage, particularly as some of our partners are off loading their larger raster data sets presents affects the costs. We do not intend to approach every actor in the state, we are working primarily with the larger providers first.

Mark Kotz: There may be data producers who are considering placing their data on the Commons, but there isn't clarity as to if they will be charged for that service. Or there is no charge when they first publish, but two years later they are asked to contribute and then they could potentially take down their dat. We understand the challenge of getting funding, but it would be good to have some clarity for the entire community of producers on how that is going to be managed. If you are below a certain threshold, you don't get charged, if you are above a certain threshold you will be charged or asked to contribute.

Dan Ross: Right, and our 'ask' today is really for two things, one, is for the contribution of the $14,110 to help with operational costs, and the second, as Mike [Dolbow] mentioned, is for a member of this group to help with the governance. By helping us work out the criteria Mike talked about we can better understand the costs we need to address.

Ron Wencl: So, in your ask for members of the governance group are there some guidelines or types of candidates you want specifically?

Dan Ross: As of now, our steering team has not been ratified so we are feeling that out. I would really like to see another data publisher have a representative on it. To publish data is both a technical operation decision and a policy and cost decision. The ones publishing the data are the ones making those decisions. If we get a monetary contribution from MetroGIS, that clears a path to having a seat.

Dave Brandt: Something that occurs to me is that, MetroGIS gets its money from the Metropolitan Council. The "ask" is coming to MetroGIS, but the MetCouncil makes those funds happen so is it then the Council's seat?

Nancy Read: Something I'd like clarified would be, is this a one-time ask or something that would be an annual request? Very often MetroGIS has funded things as a one-off, is this an effort to get sustained funding?

Mike Dolbow: This isn't a one-time project ask, we would be looking for funding again, but, we would be re-evaluating the costs each year as needed, and we can anticipate some costs of the running the Commons as declining over time.

Nancy Read: So, if someone can re-fresh my memory, how did we fund DataFinder?

Mark Kotz: The Metropolitan Council paid for it, putting together and maintaining DataFinder was essential labor. When we hired consultants, the MetroGIS body approve funds for that, but the cost of operations were absorbed by the Metropolitan Council. The Commons is not a savings to the Council, we are not saving a ton of money by publishing to the Commons, this similar work on a different platform.

Sally Wakefield: I'd like to hear from the county members around the table about what efficiencies are offered to them by the Commons.

Matt Koukol: At present we [Ramsey County] are not publishing data to the Commons. To be honest, at we don't anticipate any greater efficiencies in doing something different than publishing from our county portal. We use web services for a lot of our internal data needs and we intend to keep doing that.

Dan Ross: We still would like to be able to link from the Commons to your local sites, and we realize that we need some additional metadata work performed by the counties.

Ben Verbick: In looking at the resources to fund this beyond MetroGIS. If the Commons is looking to small data producers to fund this, I tend to agree with Mark [Kotz], that this may not be the most effective way to go long term. Matt [Koukol], you gave us part of that answer in that you don't see a significant benefit to have your county's data up there, and you are already doing work to collect your city's data and put it up through your county site. Cities may not have a real incentive to put their data up on the Commons. Lone, small producers who might be creating really valuable data might not have the ability to participate if the cost of entry to the Commons remains. Long-term funding for the resource needs to be addressed. Cities really like the site as data consumers of state and regional data but are not in any position to contribute to the funding.

Dan Ross: That is understood, still we want to emphasize the value in being able to acquire or at least locate the data from one place. One example is Waseca County, they are looking to open up their data, but don't have the resources to stand up a portal, they can benefit by using the Commons to get it out there. We recognize we don't need to be all things to all people.

Ben Verbick: We all agree it's an amazing resource, but its key that we address the long-term sustainable funding, we don't want to see a scenario where we charge the users and at the same time costs have to be recovered that aren't addressed by your general fund allotment.

Dan Ross: We know we have more to discuss on this.

Erik Dahl: We will vote on approval of funding during Agenda Item 10c when we have our existing project updates.

7) Image Tiling Specification – Request to Create Work Team

Matt McGuire of the Metropolitan Council reminded the group of a short presentation he gave in March of 2015 on the potential for an image tiling scheme. He showed a number of slides with the current publicly available imagery and their tile scales.

He stressed that the constituent members of the MetroGIS community create basemaps or image map web services that are tiled and cached and using a uniform system would better enable us to leverage one another's data.

He outlined how the Metropolitan Council deploys ArcGIS Collector for a variety of field work uses (waste water treatment assets,

County Tile Scales: March 2016

Anoka County	Carver County	Dakota County	Hennepin County	Ramsey County	Scott County	Washington County
				240		225
				360		
600	564.25	600	600	600	600	550
1200	1128.50	1200	1200	1200	1200	1128.50
2400	2256.99	2400	2400	2400	2400	2256.99
4800	4513.99	4800	4800	3600	4800	4513.99
9600	9027.98	9600	9600	8000	9600	9027.98
19200	18055.95	19200	19200	16000	19200	18055.95
38400	36111.91	38400	38400	32000	38400	36111.91
76800	72223.82	76800	76800	64000	76800	72223.82
153600	144447.64	153600	153600	125000	153600	144447.64
200000	288895.27	307200	400000	175000	307200	288895.27
	577790.55					577790.55

manhole covers, etc.) and how incredibly useful the high resolution county data is for detecting small features in the collector application. Very helpful to have good imagery during periods of snow cover. Many metro counties produce 6" resolution imagery and serve it up as web services which the Council, and presumably others, harvest for a variety of uses. He also shed light on the 'elephant in the room' issue of the willingness to discuss and adopt the Web Mercator projection for tiling scheme activity.

Matt postposed the creation of MetroGIS work group to discuss and develop a set of best practices for a regional tiling scheme. Matt indicated that this group would have no more than six meetings, one in person with the remainder as conference calls over the course of the spring and early summer. The group would work to develop a unified solution, with a draft specification for review and sanction of the Coordinating Committee at its next meeting.

Nancy Read: How might this relate to the Image Service?

Matt McGuire: The Image Server is a great resource, but as it exists, it doesn't support the kind of tiling we are looking at. With so much of what we're dealing with being base map driven setting up a consistent tiling scheme would facilitate easier consumption of the image.

Tony Monsour: Would this tiling scheme be a requirement?

Matt McGuire: No, this is not a requirement on any participating partner or agency, it is simply the opportunity to discuss the issue and see what everyone's needs are and see if we can generate a recommendation or a best practice; entirely voluntary in nature.

Mark Kotz: Matt, do you have any documentation of what we are going to do?

Matt McGuire: I am in the process of developing that, I plan to have those materials ready prior to any first meeting to circulate to the participants.

Mark Kotz: I'd suggest the goal of this work group be to present us (the Coordinating Committee) with a recommendation for a tiling scheme and the goal of this group to approve it as a best practice tiling for MetroGIS' stakeholders

Motion to approve the creation of a MetroGIS Imagery Tiling Work Group
Motion was made by David Brandt, seconded by Mark Kotz.
Vote: Unanimous in favor.

8) Policy Board Update

Geoff Maas gave a quick update on the upcoming MetroGIS Policy Board meeting, He reminded the group that the Policy Board now officially meets in person once per year, with periodic electronic update to the group as warranted. The next meeting is scheduled for Wednesday, April 27, 2016, 7 pm at the Metro County Government Center. Key agenda items include:

> The formal adoption of the revised Operating Guidelines and Procedures
> Brief updates on current MetroGIS projects
> Informational item about the Utility Infrastructure Integration (UI2) project in Golden Valley

Maas asked the group if they had additional items of policy or significant fiscal import that they wish to present or have presented at the Policy Board. Hearing none, Maas, gave the group a very brief overview of the forthcoming UI2 initiative.

The UI2 is a pilot study/proof of concept being led by Hennepin County's Public Works Department, the City of Golden Valley and the Metropolitan Council's Environmental Services Department. Xcel Energy and CenterPoint Energy have also expressed their interest in participating. For the pilot, each agency with existing or forthcoming projects within the City of Golden Valley will agree to put their information into a format (with 8-12 key attributes about the project, agency contact and start/end dates) so all parties can view and consume one other's information and leverage shared excavation work. A 'Utility Summit' will be held on April 6 in Medina for the partners and other agencies interested.

9) MetroGIS' 20th Anniversary

Geoff Maas showed a few slides from MetroGIS' past, including old logos, news articles and email correspondence and ran down the original 13 data needs expressed by the collaborative partners in 1996-97 and rated how MetroGIS has fully, partially or not satisfied those needs to date. Maas also mentioned that he would be submitting an abstract to the GIS/LIS Annual Conference in Duluth to talk about MetroGIS's 20 year milestone in terms of what has been accomplished and what remains to be done.

10) MetroGIS Project Updates

10a) Address Point Aggregation. Maas provided an updated on the status of address point aggregation. A regional effort with DNR partnership took place in fall 2015 using data from Carver and Dakota Counties. This group confirmed a process testing and using GDRS and FTP, tasks remaining in that effort include completion of the backend aggregation and creating a package for other data producers to use so they can easily contribute data using the same workflows.

This group met with MnGeo staff who are constructing the MRCC and NextGen911 portals on January 26 to discuss merging their efforts. Continued work on this is anticipated after the Metro and 911

interests better understand and document what their shared needs are for address point data attributes.

The Metropolitan Council offered to continue to collect, aggregate and publish the address points of the seven metropolitan counties until the state portal method is complete.

Geoff Maas showed a few slides from MetroGIS' past, including old logos, news articles and email correspondence and ran down the original 13 data needs expressed by the collaborative partners in 1996-97 and rated how MetroGIS has fully, partially or not satisfied those needs to date. Maas also mentioned that he would be submitting an abstract to the GIS/LIS Annual Conference in Duluth to talk about MetroGIS's 20 year milestone in terms of what has been accomplished and what remains to be done.

10b) Metro Regional Centerline Collaborative (MRCC). Maas provided an update on the MRCC project, indicating that the data from the 'First Build' was collected in December of 2015, Hennepin County's Tracy Tisbo performed an assembly and audit of the data and the MRCC team members met on 2/29/16 for a Milestone Meeting to adjust the MRCC data specification to reflect needed changes and errors encountered. The timeline for the MRCC includes a 'Second Build' of the data through the summer of 2016, with 9/30/16 identified as a goal date for 90-95% of the attributes to be populated and the data going into maintenance mode with monthly updates and full public availability. All project documents are available on the metrogis.org website under Projects >> Metro Centerlines.

10c) Support for the Geospatial Commons. To follow on from Mike Dolbow's presentation earlier in the meeting, the Committee debated the approval of MetroGIS budget funds in 2016 to provide support to the Geospatial Commons. Maas illustrated the current 2016 MetroGIS budget as follows:

Total 2016 Budget	**$86,000**
2016 Parcel Contract	**-$28,000**
Historical Aerial Project	**-$5,076**
Miscellaneous Expenses	**-$2,000***
2016 Available Project Funds:	**$50,924**
Commons request:	**-$14,110**
Remaining 2016 funds:	**$36,814**

Earmarked, but not formally or contractually committed

Chair Dahl asked if there was a motion to approve.

Sally Wakefield: I propose a motion, and I'd like to elaborate on a few additional points. In so far as we are in a position to provide financial support, I think we should accept Mike's [Dolbow] offer to then have a seat and a voice in the governance of the Commons. We all know as data consumers it is time

consuming to have to visit many sites, so in our spirit of regional collaboration we should continue to examine and support things that make data centralization happen.

Nancy Read: I would agree and second the motion.

Chair Dahl asked if there was any additional discussion on the topic.

Mark Kotz: I would echo what Sally said. Speaking from the Council's perspective, moving our data into the Commons from DataFinder wasn't motivated by cost savings, DataFinder was not costly; we did so from the stand point of providing good government. It is the right thing to do and the right way to serve our citizens and it aligns with our mission and the Commons' mission.

Nancy Read: When we had DataFinder active, we had an annual report on its metrics, is this possible to get from the Commons as well? This could help us understand who to connect to for funding and to participate on the Commons governance and steering team.

Dan Ross: We can pull together the metrics on users and share that with the group.

Mike Dolbow: We are currently using Google Analytics to track the use of the Commons.

Chair Dahl cited that there was a motion and a second and asked for a vote.
Vote was unanimous in favor.

10d) Free + Open Geospatial Data. Maas cited that with Hennepin County granting its approval, all seven metropolitan counties data can be freely re-distributed by the Metropolitan Council, even though the Parcel Contract extension through the end of 2016 remains in effect. Maas showed the updated MetroGIS website for parcel data and the updated Free and Open Public Geospatial Data map (as of December 15, 2015), notably, Itasca County adopted a free and open data resolution on December 9, 2015 and Rice and Waseca counties are actively pursuing paths to free and open data. Maas also cited that the White Paper II resource had been updated on December 23 with future updates anticipated and encouraged.

10e) 2016 Aerial Imagery Collection. Mark Kotz described the main contract as being an inter-agency agreement between the Metropolitan Council and MnGeo. MnGeo is managing the contract with Surdex for 1' imagery, with four metro counties (Dakota, Scott, Carver and Anoka) participating in the buy-up for 6" imagery. The Council assumes the cost of the 1' imagery, and if the counties fly the 6" inch, receive the cost break and the Council will accept imagery down sampled back to 1' resolution. The flight lines have been defined, ground controls are in place, they estimated 4 days of flying to perform the 1' capture of the metro, again, with much of this dependent on the weather. If there is a time crunch or weather issues, they may need to abandon the 6" imagery, we certainly hope it doesn't come to that. Delivery of the data is anticipated in August, with final delivery by the first of December, however, Surdex has made mention that it could very well be earlier. All this data will be freely and openly available to the public.

10f) Historic Aerial Imagery Mosaic and Archive Project. Geoff Maas reminded the group of its decision to support and fund a Council/U of Minnesota project to scan, geo-rectify and serve historic aerial imagery of the metro from the Borchert Map Library archives; $5076 of the 2016 MetroGIS budget has been allotted to the effort. The contract language has been drafted and approved by the legal counsel of

both agencies, however, during the due diligence research it was discovered that the 1966 set of images were no longer in the ownership of the Metropolitan Council, ownership of these materials had been transferred to the ownership of the State Historical Society. Maas is following up with State Historical Society legal counsel to keep the issue moving.

10g) Statewide Park and Trail Data Standard. DNR and MnGeo are the project sponsors, no progress on the project to date.

10h) Metro Regional Stormwater Research Two additional stakeholder's business cases have been documented Metropolitan Council Water Supply Program (Environmental Services) and Metropolitan Council Local Planning Assistance Climate Resiliency Project (Community Development). We will continue to document the business cases of self-identifying partners as they emerge.

11) Lightning Round: Participants are encouraged to share any updates they have on what their agency is doing in the realm of GIS projects and initiatives.

Matt Koukol (Ramsey County): Ramsey County is looking at a large asset management system including all kinds of analysis including things like depreciation curves and how we can sustain our assets. We are also looking as to how we can take on ESRI Roads and highways, and looking at moving toward some large open data portal (not just geospatial) initiatives.

Pete Henschel (Carver County): We are underway with re-branding our web applications so they all look the same.

Warren Fong (Hennepin County): We are deeply involved in our local build of the MRCC, working to coordinate six different departments within Hennepin County. We are also working with our community corrections folks on an initiative for GPS tracking for parole officers, we have around 300 parole officers in the field in the county.

Adam Iten (ECN/MN.IT Services): We are in the first review of draft NextGen911 standard, we have it out for review and comment and we anticipate at least two more review periods. This first review period ends in April, having been distributed to all PASP and GIS partners; we continued to encourage GIS offices to develop good relationships with and work closely with their PSAPs. We also will be convening a group to work on the Address Points Standard. We anticipate having a standard by June for everyone to work with and evaluate.

Mike Dolbow (MnGeo): Thanks for the affirmative vote

Ron Wencl (USGS): I'd like to let everyone know that we will be beginning production on updated topographic mapping in June, and we will have more activity on the national hydrographic requirements work,

Sally Wakefield (MnDOT): MnDOT's metro office has received STIP Authorized funding for a project via to start deploying ArcGIS Online, also we have a huge asset management collection effort underway, specifically working with LiDAR, we are contracting out for the collection, but we will process it "in house"

Carrie Magnuson (RWMWD): No updates.

Ben Verbick (LOGIS): LOGIS has been working with Hennepin County in deploying the Address Point Editor to establish a data flow with our cities, Golden Valley has gone live, they are editing with the editor and the datasets at Hennepin County are being populated directly with that. We are also working with Minnetonka and Maple Grove, we are using a configuration very similar to that in use by Carver County. Cities are also looking at and evaluating the MRCC model. Most of our cities have AGOL and we are actively looking for collaborative opportunities; ESRI licensing doesn't presently allow a 'pool of users' but we'd like to see how others are working together on it.

Eric Menze (Resource Data, Inc): No updates.

Sue Hauge (Metropolitan Council): I'm here as an observer today, it's exciting to see the work you are all engaged in together.
Bob O'Neill (City of Bloomington): We are now up to about 30 users of ArcGIS across our various divisions in the City of Bloomington, we have implemented a portal and are looking to do more with web apps.

Nancy Read (Metro Mosquito Control): We have finished our survey of over 70,000 wet areas in the metro region, we will have that as a piece of data, and I have made a resolution to get that into the Commons.

Mark Kotz (Metropolitan Council): I have already mentioned the aerial imagery collection. We are working to better formalize the role of AGOL in the Council, enable our various divisions to use it to publish it, or make an app, we need to do additional work in communicating and coordinating with our various departments to make this successful. We are in the process of upgrading to 10.3 and we are continuing to develop field collection applications to deploy on iPads and Windows 10 tablets.

Geoff Maas (MetroGIS): I will be giving short presentations at the UMGEOCON Conference in La Crosse in late May on the open data effort and the MRCC.

David Brandt (Washington County): We are working to a lot with CAD and automated RMS (Records Management Systems) and improving our data. We have had some help from the state on cleaning up our address information. We also are working with our yard waste planning process with the Health Department on route planning and placement.

Erik Dahl (MnEQB): No updates from the Environmental Quality Board.

12) Next Coordinating Committee Meeting:
The next meeting of the Committee is scheduled for Thursday, June 23, 2016, 1 pm

13) Adjourn
Motion to adjourn: Ross, Second: Kotz
Chair Dahl adjourned the meeting at 3:29 pm.

MetroGIS Coordinating Committee: Meeting Minutes

Thursday, July 21, 2016, 1 PM - 3:30 PM
Metro Counties Government Center, 2099 University Avenue, St Paul
Minutes Approved by the MetroGIS Coordinating Committee on Oct 13, 2016

In Attendance:

Curtis Carlson, Northstar MLS   Gordy Chinander, MESB
David Brandt, Washington County (Vice Chair)   Erik Dahl, EQB (Chair)
Brad Henry, University of Minnesota   Norine Wilczek, MnDOT
Pete Henschel, Carver County   Mark Kotz, Metropolitan Council
Dan Ross, MnGeo   Ben Verbick, LOGIS
Tony Monsour, Scott County   Len Kne, U-Spatial
Randy Knippel, Dakota County   Jeff Matson, CURA/Non-Profit
Mark Maloney, City of Shoreview   Ron Wencl, USGS
Carrie Magnuson, Ramsey-Washington-Metro Watershed District

Absent:

Gary Swenson, Hennepin County   Hal Busch, City of Bloomington
Nancy Read, Metro Mosquito Control   Matt Baker, Metropolitan Airports Commission
Hal Watson, DNR   Matt Koukol, Ramsey County
John Slusarczyk, Anoka County   Eric Haugen, Resource Data, Inc.
David Bitner, dbSpatial

Guests:

William Blake, Allina Health   Ryan Stovern, St. Louis County
Andy King-Scribbins, Hennepin County   Jim Bunning, MnGeo
Adam Iten, Emergency Communications Network
Paul Youngstrom, Metro Mosquito Control District
Jennifer Crites, Metro Mosquito Control District

Staff:

Geoff Maas, MetroGIS Coordinator

1) Call to Order

Chair Dahl called the meeting to order at 1:07 PM

2) Approve Meeting Agenda

No changes advanced; Motion: Kotz; Second: Carlson

3) Approve Meeting Minutes from March 24, 2015

No changes advanced; Motion: Brandt; Second: Kotz;

4) MetroGIS Benchmark Award – Outgoing Policy Board Chair Terry Schneider

The Coordinating Committee honored out-going Policy Board Chair Terry Schneider, by presenting him with the MetroGIS Benchmark Award. Coordinator Maas reiterated the

importance of having elected officials aware of the work we do in the geospatial field within our individual agencies. Mayor Schneider was quick to compliment the GIS staff of the cities, counties, watershed districts, Council, state agencies and other interests present.
Schneider also praised how well the geospatial technical staff of all the various agencies work with one another to find common solutions that serve the needs of all citizens.

Schneider has been on the MetroGIS Policy Board since its inception on January 15, 1997, and served as the board's chair from 2007 until 2016.

5) Parcel Data: General & Administrative Ownership Categories

Ryan Stovern, GIS Principal with St. Louis County gave a presentation on generalized and administrative ownership attribute categories for parcel data that are currently in development in the counties of the Arrowhead Region (Cook, Lake, St. Louis and Carlton). Stovern described the initial business need for the generalized ownership attribute arising from the Pagami Creek Fire in the summer of 2011. Many agencies needed to use each-others data for response and accounting of the burned area and many errors and discrepancies were found, the generalized domain of values was developed as a means to streamline interagency work and make the parcel datasets easier to use.

The current generalized ownership domain as of June 2016 is as follows:

01 – Federal – Lands owned by the United States
02 – State – Lands owned by the State of Minnesota
03 – County Fee – Lands owned by the County
04 – Tax Forfeit – Tax Forfeit lands, owned by the County, managed by the State
05 – Municipal – Lands owned by Cities and Counties
06 – Tribal – Lands owned or Controlled by Tribal Nations or interests
07 – Regional – Lands owned by regional commissions or park districts
08 – Port Authority – Lands owned or controlled by port authorities
97 – Unknown – Any parcel with a PIN in the GIS, but not in the tax system
98 – No Value – Any parcel without a PIN and not in the tax system
99 – Private – Any lands without a public ownership interest

This generalized ownership categorization makes it easy to quickly display data across the region seamlessly. In the Arrowhead region a large number of partner agencies and organizations are working together, these include:

Governmental Agencies (Active)
United States Forest Service - Superior National Forest 2011
Cook County - 2011
Lake County - 2011
St. Louis County – 2011
MnGeo - 2012
MN DNR - 2012
Carlton County - 2014
Arrowhead Regional Development Commission – 2015

Non-Governmental Agency Partners
Esri - 2012
Nancy von Meyer - 2013
Minnesota Power - 2013

Governmental Agencies (Interested, But Not Currently Active)
National Park System - Voyageurs National Park
Koochiching County
Fond du Lac Band of Ojibwa
Itasca County
Aitkin County

The partners will also be looking to include the Grand Portage and Bois Fort Tribal interests as well as Minnesota Power in the foreseeable future.

Next steps for the effort include finalization of the generalized ownership attributes and to begin work on developing administrative ownership attributes. Stovern noted that the creation of the queries is extensive and labor intensive for getting just the generalized categories assembled, and that a larger effort will be undertaken for the administrative domain values. The administrative domains will assist the state level agencies, particularly the GAP stewardship program and other recreational lands mapping efforts. There remain some challenges with categories like school district properties and non-tax paying entities like church property, but we work through them as we go.

Additional future work is to engage land surveyors from federal, state and local levels to ensure the accuracy of the survey lines and administrative boundaries. There are a number of known errors and anomalies in the data that will take extensive time and effort to work through and address.

The partners in the Arrowhead region are working with the Arrowhead Regional Development Commission for funding and working with the National Forest Service for in-kind staff contributions to assist in the effort.

Stovern indicated that one of the key reasons for the initial success is that all four counties (Cook, Lake, St. Louis and Carlton) are working on a shared parcel fabric. Koochiching, Itasca and Aitkin Counties are interested in what we're doing, but are not yet involved in parcel fabric work.

Carlson: Are your working with Superior (Wisconsin) on the effort?

Stovern: Not specifically on our current parcel effort, but we do work closely with them on many other things. Douglas County (Wisconsin) is not part of our parcel fabric work.

Maloney: How are you handling Conditional Use Deeds in your data?

Stovern: We actually have very few, there are only 25 conditional use deeds in St. Louis County, one example is Lester Park Golf Course.

Stovern closed his presentation with the acknowledgement that there was a great deal of work to do, but that it is creating a lot of value and the partnerships in the Arrowhead region are stronger with this kind of shared effort.

6) Hennepin County Fiber Optic Network Overview

Andy King-Scribbins, Community Connectivity Manager for Hennepin County provided an overview of the county's current and planned fiber optic network. King-Scribbins spent the first part of his presentation providing description of what fiber optic technology is, why it is important and how Hennepin County is making use of it to meet its various business and functional needs.

At present, Hennepin County owns or leases space in 120 locations throughout the county and seeks to ensure all of these sites are eventually connected via fiber optic network, these include all county government facilities, PSAPs, fire halls, police stations, EMS facilities, clinics, sheriff's office and so on. He indicated that they are presently a long way from meeting that goal.

In planning for their future network, the county emphasizes the use of its existing ownership; current major planning the fiber network is focused on the use of its county highway right of way as it controls the access. This also helps to connect signals and other facilities the county needs to manage and operate.

Hennepin County is actively looking to partner with other agencies and interests installing fiber in the county, and is currently working with school districts, Metro Transit and other agencies seeking a permit to perform work in county right of ways. Partnering has the obvious benefits of sharing infrastructure, enhancing the capacity and reducing the cost.

With Metro Transit, two major efforts are in the works, there are the proposed Southwest line (Green Line Extension) and Bottineau Line (Blue Line Extension); plans are to have a full end to end fiber infrastructure in place which align with these light rail projects. These projects would facilitate Hennepin County's Government center to have eventual connection and linkages with Scott and Carver County governments.

Hennepin County is focused on 'future-proofing' its fiber network. Every asset we install in the ground is expected to last a minimum of 20 years, and we are installing empty conduits along our conduit containing fiber; the empty one enables us to expand when needed later on. We are ensuring there is more than needed capacity and we will not need to drill again for 20 to 30 years.

On the GIS side of things, we are mapping three basic categories of the network: the *existing network* which is Hennepin County's fiber system, the *partner network*, where we are working with or sharing the fiber with another agency and the *planned routes*, which are the proposed or desired connectivity of the system. Many of our agencies from public works to the sheriff's office to emergency management are interested in where we have our current and planned system, so being able to map it and share that info with them is very important.

Hennepin County is making use of Crescent Link (http://crescentlink.com/) which is an extension for ArcGIS; it enables you to have a single line and point to hundreds of strands of information with that single line an facilitates editing and managing the fiber data in the ArcGIS environment. Some agencies not on the ArcGIS platform, they are using CAD or simply Google Earth, and we are able to provide them the data in a format they can use for their work.

For the future of our fiber network, we want to more fully integrate the public works and transportation areas with advanced transportation management, traffic counts and signal timing. In the even 'bigger

picture' we're looking at the 'internet of things' and integration of our emergency siren system, emissions tracking, and the entire array of sensors in Hennepin county for all kinds of mapping and analysis work.

Brandt: How do you work with Gopher One Call?

King-Scribbins: Within the City of Minneapolis there is one major Gopher One Call account and elsewhere we contract with a third party, usually Delcom does the locational work.

Knippel: How accurate is your fiber locator?

King-Scribbins: It depends on where you are looking, with our Trimble units we within about 1 foot. Anything not GPS'd we generally work with a 20 foot or so buffer.

Chinander: What are you doing for re-routes and redundancy?

King-Scribbins: All of our existing loops have redundancy built in so if something is cut we can quickly be back on line.

King-Scribbins thanked the group for their time and questions.

7) Image Tiling Specification – Report Back

Matt McGuire of the Metropolitan Council provided a report back to the Committee on the continued development of the draft of the Imaging Tiling Specification. At the March 2016 meeting, after a presentation by McGuire, the Committee approved the creation of a work team to examine options for a shared image tiling specification. The work team consisted of   Jessica Fendos of Ramsey County Justin Hansen of WSB Engineering, Matt McGuire of the Metropolitan Council and Joe Sapletal of Dakota County. The team met in person once and had several conference calls and electronic exchanges since March and developed a working draft recommendation for a shared image tiling scheme.

McGuire re-iterated the benefits of a shared tiling scheme for sharing data, enhancing the ability to combine, distribute and build shared applications, reduction of redundancy, maximizing uptime and creating a common operation picture and working together in mutual aid situations.

McGuire informed the Committee of the Work Team's recommendation was the Web Mercator Tiling Scheme (WMTS), but indicated that the WMTS has some issues and 'the more closely you examine it, the harder it can be to see' and that while the WMTS is widely used by a variety of agencies, interests and vendors there is not a single definition of the specifics which underlie its structure and that there are numerous slightly different scales in use in the realm of the WMTS.

McGuire highlighted the benefits of using WMTS: that it meet key business needs of delivering high resolution imagery (WMTS has been defined to a scale of 1:70) and that it works very well for on-line mapping applications being widely supported by web frameworks and well understood by the web development community.

However, McGuire also identified some risks and drawbacks including:

- The National Geospatial Advisory Notice admonition to not Web Mercator; (http://earth-info.nga.mil/GandG/wgs84/web_mercator/)

- That at 45-degrees the measuring errors are significant, and;

- That it cannot be reliably used for measurements of distance and area.

To alleviate the distance and area problem is the option of setting up the viewer of the data in Web Mercator, but having an underlying measuring capacity in another system to return more accurate distance and area measurements. McGuire reiterated that the WMTS is also **not** recommended for engineering or survey work or for where measurements derived from printed media are needed.

McGuire suggested the following next steps for the shared image tiling specification.

- The draft document is posted on the MetroGIS website under Best Practices as a working draft, the Committee and geospatial community is encouraged to review the document and submit any changes or recommendations.

- The document is available here: http://www.metrogis.org/how-do-i-get/best-practices.aspx

- The counties of Anoka, Carver, Dakota and Scott and the Metropolitan Council have partnered to fly the entire metro region at 1'-resolution and their respective counties at 6"-resolution in April 2016. As this imagery comes on line in fall of 2016, there is an opportunity to build a sample tiling scheme with these images, blocking them together and sharing the files using the common WMTS as a test case to try this.

The Shared Image Tiling Work Group will ask that the Coordinating Committee offer revisions, rejection, approval, or approval with conditions for the recommend shared tiling scheme at its next meeting on October 13, 2016.

8) Policy Board Update

Maas gave a brief update on the recent Policy Board meeting which occurred on April 27, 2016. Minnetonka mayor Terry Schneider has stepped down after 7 years of service as the Policy Board chair and 19 in total with the Board. The new chair is the city of Richfield mayor Debbie Goettel and new vice chair is Mary Texer, board member of the Capitol Region Watershed District. There is also a new seat available from Metro Cities with Terry Schneider leaving, Maas will contact Metro Cities to ensure they delegate a new member to the Board.

Maas indicated that the Policy Board has formally approved the proposed changes from 2014 and 2015 to the MetroGIS Operating Guidelines and Procedures. The key changes include the following:

- A revised description of the roles and responsibilities of the Coordinating Committee and Policy Board based on their current actual functions;

- Work plan & budget are recommended and adopted by the Coordinating Committee;

- That allotments from the MetroGIS budget are to align with approved work plan projects;

- Approve of two (2) additional seats for city government at the Coordinating Committee

The next annual in-person meeting the MetroGIS Policy Board is scheduled for April 26, 2017, periodic electronic updates will be provided to the Policy Board members as events warrant.

9) Coordinating Committee Alternate Members

Maas reminded the group that all Coordinating Committee members are entitled to have an alternate represent their interest at the Coordinating Committee. With all members of our professional community having tighter schedules and many meeting commitments, sending an alternate member is an appropriate and encouraged means of representing your interest in the MetroGIS collaborative. Maas encouraged all members who have no done so to designate an alternate and to provide the alternates name and email address for documentation in the MetroGIS roster.

10) MetroGIS Work Planning Project Updates

Maas directed the group to the MetroGIS work planning page on in its website where a new, updated and simplified template for work projects is available along with detailed instructions for filling the form out and submitting for consideration by the group in the MetroGIS 2017 project planning cycle.

All MetroGIS work project planning materials are available here:
http://www.metrogis.org/projects/Project-Templates.aspx

Current Work Plan Updates:

10a: Address Point Aggregation
Maas provided a brief recap of recent action on the aggregation and address point development effort. At present five of the seven metro counties have address points prepared and in continual production. Metropolitan Council staff are aggregating this data twice per year (April and October) and publishing it to the Geospatial Commons as the Regional Address Point dataset. Important recent developments include the appearance of a 911 Address Point Specification which meets the business needs of the NextGen 911 data consumer community. MetroGIS staff has been working with 911 interests to develop a comparison document showing key difference between the current metro specification and 911 specifications. Metro Address Work Group representatives will be meeting with 911 interest in fall 2016 to work through differences in the specifications and find common ground in their business needs for the data. The group will also revisit the aggregation strategy with the full set of partners to determine the best way to aggregate the address point data in the metro.

More information about Address Point Aggregation can be found here:
http://www.metrogis.org/projects/address-point-aggregation.aspx

10b: Metro Regional Centerlines Collaborative

Maas provided a brief recap of recent action on the MRCC effort. The MRCC is currently in the 'Second Build' period (February 29, 2016 – September 30, 2016) where the partners are using Version 1.4.2 of the MRCC specification to build a first release to the public this fall. The members of the MRCC have been documenting the variety of issues as they arise during the Second Build process, sharing their ideas and concerns on the project's BaseCamp site. The data is presently being aggregated via the portal developed and hosted by MnGeo. The MRCC team will congregate again on August 11 to work through the following issues:

- How and when the Linear Reference System attributes will be handled;
- Dealing with border streets with two valid names;
- Population of the emergency access attribute;
- Better definition of key project terminology;
- Approval of 'touch points' along county boundaries for alignment between counties;
- Asses the need for and potential to include postal community attributes;

September 30 is the proposed date for a public release of the MRCC dataset, with monthly updates anticipated after the first release. A 'Best Practice Guide' is in development as is a second round of stakeholder review of the public dataset. Finally, project members will be making a presentation about the MRCC's progress to the GIS/LIS Conference in Duluth October 26-28, 2016.

More information about MRCC project can be found here:
http://metrogis.org/projects/centerlines-initiative.aspx

10c: Support for the Geospatial Commons

The Metropolitan Council and MnGeo executed a contract on June 20, 2016 for $14,110 of the MetroGIS 2016 budget dedicated to support the Minnesota Geospatial Commons.

10d: Free + Open Geospatial Data Initiative

As of July 21, 2016, nineteen (19) counties in Minnesota have either adopted resolutions making their data open or are simply publishing their data freely and openly via their own portals or the Geospatial Commons. The most recent county, Waseca, had a resolution adopted by their Board of Commissioners on June 21, 2016.

The Free + Open 'White Paper II' resources document is now in Version 4.0 (Updated on May 6, 2016) with future updates prompted by questions and concerns received by the geospatial community.

The Minnesota Geospatial Advisory Council created an Outreach Committee in early 2016, this committee is co-chaired by Len Kne and Kari Geurts and is in the process of developing two surveys for release in August 2016, one survey is designed for Free + Open Counties (19) with another designed for Non Free + Open Counties (68). The two purposes of the survey are to understand where counties are at on the issue and to collect 'narratives of success' of how geospatial is helping counties do their work better regardless if they make their data public or not. The survey will be distributed in August, results tabulated and reported on in September with presentations on the results at the MN GIS/LIS Conference in October and the Government IT Symposium in December. A proposal was also tendered to the

Association of Minnesota Counties for their annual conference in December in Minneapolis, but their conference committee rejected the proposal for inclusion this year.

10e: 2016 Aerial Imagery Collection Effort
The Metropolitan Council and four Metro Counties of Anoka, Carver, Dakota and Scott participated in a buy-up of aerials this spring. The entire region was collected between April 9 and 22 at 1' resolution (leaf off) with the four counties collected at 6" resolution. As of this writing, the vendor Surdex is performing the ortho-correction with the first round of imagery to be available for the initial phase of QAQC checking in August. The entire contract will be concluded on December 1, 2016. For further information on the project, please contact either Tanya Mayer (MetCouncil) or Chris Cialek (MnGeo).

10f: Historical Aerial Imagery Archive Project
Representatives from the University of Minnesota and Borchert Map proposed a project for 2016 to scan and geo-rectify a series of imagery from 1956 and 1966 thought to have originated with the Metropolitan Council. The Council and University developed a contract, but during their due diligence discovered that the Council no longer owned the images, but had transferred its ownership to the Minnesota History Center in 1991. After a thorough legal review by the History Center, they denied their approval for serving the imagery up on a publicly searchable website, as the holder of the copyright of the images was not definitively known. The Borchert Map Library performed the scanning and geo-rectification of the images for its internal collection and the Metropolitan Council is presently negotiating a purchase of the digital files for $4744.83 for its internal project use. Borchert Library staff and Minnesota History Center staff are continuing to examine the ability to release the material with the risk of copyright violation appearing to be very low.

10g: Park and Trail Dataset and Data Standard
The project was submitted in 2015 for work in 2016 to develop a statewide data specification for park and trail resources. In the intervening time, state agencies have been determining how to meet their Legislative mandate to represent parks and trails of regional significance and working with the University of Minnesota's Center for Changing Landscapes in a parallel process to meet their business need for park and trail data. Over the course of 2015 and early 2016 the metro counties and Metropolitan Council have expressed a business need for a dataset that captures all park, recreational and natural lands and trail, not just those of regional significance. The metro partners have developed a charter and envision a process similar to that taken on by the MRCC in documenting the core business needs of the producer and user community. The metro effort is anticipated to begin in late 2016, while the state level effort is currently occurring with a deadline of June 30, 2017 for both its projects and the development of a data standard.

10h: Metro Regional Stormwater Dataset
At present this project remains an information gathering and research effort. To date, 21 agencies and interests have had their business case documented—those who need an inter-jurisdictionally integrated stormwater feature dataset. MetroGIS Coordinator Geoff Maas has a list of 25-30 more interests yet to be interviewed. At present there is no project champion, no project owner or designated work team active, however, when these do appear and the project becomes a priority, there will be a solid body of resources to draw upon. MetroGIS retains a 'splash page' on its website with information and links to relevant documents for those interested in the project's potential.

11) Lightning Round Updates

Participants are encouraged to share any updates they have on what their agency is doing in currently involved with.

Chinander (MESB): No update

Wencl (USGS): Dewberry has completed the National Hydrography Requirements and Benefits Study (HRBS) for the U.S. Geological Survey (USGS). The firm conducted the study—which was sponsored by USGS and the U.S. Department of Agriculture's Natural Resources Conservation Service—to establish a baseline understanding of national business uses, needs, and associated benefits for national hydrography data; and to inform the design of an enhanced future program that balances requirements, benefits, and costs. The final report is 640 pages, had the input of over 500 agencies and estimates there would be over $600 million in annual program benefits if all the requirements were met. The new series of USGS topographic quad maps are available, all but six (6) Minnesota counties are complete and are in GeoPDF format, with a vector model version available as well. The next round of 3DEP (3D Elevation Program) is gearing up, please remember that "NED (National Elevation Dataset) is dead" and that everything is LiDAR based. A new 3DEP update will be coming out in the coming weeks

Henschel (Carver Co.): We are going to use the Local Government data model from ESRI for Rapid Damage Assessment. Public Infrastructure, Residential and Commercial assessment are all supported within the data model. Dakota County has implemented the data model and will be doing a live training exercise next week. Carver County will be joining them in their exercise to learn what works and doesn't work well during a real event.

Iten (Emergency Communications Network): We are continuing to work on the 911 standards, we've received over 300 comments and questions related to the centerline standard to date and we are in early development phase of the address point standard as well. We've been working closely with Geoff (Maas, MetroGIS) to understand how we align with what we need and where the existing metro address point standard is. We have started with the NENA standard as a baseline—itself is still in draft form—as well as standards in use around the U.S. to see what other states are doing, including your metro standard and then developed our specification to meet the NextGen 911 requirements. We are hoping your address group can convene soon, ideally in August, so we can see how we align. We will be bumping a second round of review out to Greater Minnesota soon, a second review of the draft 911 material. We'll then be diving into the PSAP boundaries, fire and law boundaries and the medical sections as well. Despite my initial hopes, we aren't going to see the approval of the draft in calendar 2016, but we know this is a long term process. One of the benefits we see is for our data to be standardized to that the vendors who can consume the data can align their products with our standards.

We will be having another newsletter coming out soon, and work continues on the 911 portal at the state. The MRCC has a development space on the portal and the 911 folks are making use of that data. We hope the future will see scripted uploads to help automate the process, eliminate manual requests and manual work and we hope to see continued increased connection to the Greater Minnesota community with this part of the effort.

I want to re-iterate our big "thank you" to Dakota County for sharing their Joint Powers Agreement documentation with us, this is really proving to be a useful template for working elsewhere in the state, helping us to engage with address authorities on a process that works.

Monsour (Scott Co.): We have finalized address points for the entire county, we started with centroids for the parcels, individual sites, parcels with numerous points and so on. We're also engaged with the Joint Powers Agreement approach with our cities. We've had an intern this summer to help work on sorting out our error records and we are also working with our new dispatch software from LETG (which is now owned by Zuercher). Also, we have had a long-term interim CIO in Scott County, we are now advertising for a full time position; this is at the same time as two other counties looking for a new CIO as well.

Carlson (NorthStar MLS): We are currently maintaining parcel data for seventy (70) counties in Minnesota and Wisconsin and are in the midst of our summer 'updates and mergers', because we have ready access to your data, the Twin Cities metro gets updated more frequently. I am now working as well with the Minnesota Department of Revenue on their eCRV system (Electronic Certificate of Real Estate). This is a system used by auditors and assessors for documenting sales, the Department of Revenue releases this data weekly. It came on line in October 2014 and a user group has formed around it and we are hoping to get the Dept. of Revenue to comply with the forthcoming parcel data transfer standard. The eCRV data is more interested in the data 'capture' side than the data 'distribution' side. While it is publicly available and delivered up via ftp and xml, we would really like to see them comply with the parcel standard. (More info on eCRV: http://www.revenue.state.mn.us/CRV/Pages/eCRV.aspx)

Maloney (City of Shoreview): Shoreview is in its fifth year of response to the Emerald Ash Borer (EAB), we are sharing data with the Department of Agriculture, but not sure who else might be dealing with this. I do know the City of Hastings is now getting an EAB quarantine. In Minnesota we are on the rising part of the curve for EAB and we (at least at the city level) need to know what resources exist for cities and counties dealing with EAB in Minnesota. If EAB touches on what you work with and you know what kinds of tools can be used for that we need to connect for the community those responding to EAB.

Also, I am still trying to find a multiple-jurisdiction highway crash mapping application for multiple jurisdictions, crash data and so on. Highway patrol and local law enforcement agencies maintain different data so it's a challenge to bring it together. Things the amount of damage, injury data at the local level: it is a challenge to create a map showing all the crashes just in our jurisdiction; we are still searching out the best way to compile that data.

Verbick (LOGIS): With our Hennepin County cities, we working actively working on address points data development, management and aggregation, Hennepin County are more involved, they are focused on getting participation from municipal governments, as many members to meet with Hennepin County on implementation of address point editor in our cities in August. Also, I'm happy to report a number of our cities are taking advantage of the MRCC road data specification and are examining it for potential alternate implementation of their road dat.

Kne (University of Minnesota): The U of M is evaluating the development of a large asset management system, a number of proposals being looked at, Dan Sward is the primary contact for that. Another big thing on campus is the 'Pokémon Go' phenomenon, the U of M is major 'hot spot' for that.

Matson (CURA): As the fall semester nears, we'll have students coming in and there are always opportunities to use students for internships. I am working with Andra Bontrager, the new GIS Specialist

at the Minnesota Center for Environmental Advocacy to ramp back up the non-profit GIS users group in the metro, we are compiling a list of non-profit GIS users in the metro and state.

Wilczek (MnDOT): Pass

Kotz (Metropolitan Council): Based on what I heard from Adam Iten, I see the need to reconvene the Address Point group again soon and to work to get those standards out there. I will be reaching out to those of you who are on the Address Work Group, and some of you who may not remember you are on the Address Work Group. Some of you might not be aware of this: the Metropolitan Council has its own police force, the Metro Transit Police; and we are in the process of transitioning from the LETG to the services of LOGIS, who use TriTech, we are using LOGIS for GIS data support and this project functionally extend the geographic coverage of LOGIS to the entire metro region.

Brandt (Washington Co.): We are currently working on getting TriTech set up, it is taking a bit of time to get it rolled out; we are working with our cities to get them on board. Also, our IT Direct, Mjyke Nelson has left Washington County he has taken a position with Dakota County Electric Co-operative; his move creates a spot to fill on the MetroGIS Policy Board. Also, Washington County is working to become a data provider to Google map, as we field so may calls to fix things the public is viewing in Google, we hope to be on their approval list soon.

Ross (MnGeo): I just wanted to re-iterate that we are in the process of working to update the county GIS contact list and to begin to develop a city-level contact list for GIS.

Henry (University of Minnesota): I'll just mention that we've got the second MN2050 infrastructure survey wrapped up; interestingly, it has taken longer to draft the press release than to develop the actual survey itself. We are working closely with the University of Minnesota, and with Len's group at U-Spatial to develop the interactive materials to present the data; having these interactive tools at public meetings really engages the audience and the elected officials that are participating. Infrastructure remains a big issues with a lot of interest.

Knippel (Dakota Co.): I am reporting from two perspectives, as the Chair of the Data Producers Work Group with includes Olmsted County and from Dakota County. Our park and trail project is getting going, this is a collaborative effort among our partner agencies, we have a project charter and we see ourselves modeling this effort off of the method we used for the MRCC project. Dakota County hosted a developer event a few weeks ago; essentially a workshop to get our various staff members connected and to discuss our ability to develop applications and custom widgets and share effort in that arena.

We are also using the dispatch system TriTech through LOGIS and encountering some interesting challenges of getting that together particularly with impedance values, we will continue to work through that.

As was mentioned earlier, we are involved with the recent aerial buy up, we'll be getting the 6" leaf off, and we've also found that we have a need for leaf-on imagery for which we'll also be using the State Master Services Contract. We found this to be really easy to work with, we put in a scope of work to the nine registered vendors and got eight highly competitive responses; very aggressing pricing for the leaf-on imagery proposal. Finally, we are subscribed to the ESRI Community Base Maps program, now that our data is free and open, it's all up in the ESRI system including building foot prints. We were at one

time considering having our own base map, however, now we are now strongly considering just using the Community Base Map instead.

12) Next Coordinating Committee Meeting:
The next meeting of the Committee is scheduled for **Thursday, October 13, 2016, 1 pm.**

13) Adjourn
Motion to adjourn: Maloney; Second: Carlson.
Chair Dahl adjourned the meeting at 3:13 pm

MetroGIS Coordinating Committee: Meeting Minutes
Thursday, October 13, 2016, 1:00 pm – 3:30 pm
Metro Counties Government Center, 2099 University Avenue, St Paul
Minutes Approved on January 12, 2017

In Attendance:

Erik Dahl, EQB (Chair)
Curtis Carlson, Northstar MLS
Mark Kotz, Metropolitan Council
Jeff Matson, CURA
Nancy Read, Metro Mosquito Control Board
Matt Baker, MAC

Brad Henry, University of Minnesota
Norine Wilczek, MnDOT
Dan Ross, MnGeo
Mark Maloney, City of Shoreview
Matt Koukol, Ramsey County

Guests:

Alex Blenkush, Hennepin County
Craig Prisland, Carver County
Jon Hoekenga, Metropolitan Council

Steve Groen, Hennepin County
Jared Haas, City of Shoreview
Matt McGuire, Metropolitan Council

Absent:

David Brandt, Washington County (Vice Chair)
John Slusarczyk, Anoka County
Hal Watson, DNR
Hal Busch, City of Bloomington
Ben Verbick, LOGIS
Len Kne, U-Spatial
Carrie Magnuson, RWMWD

David Bitner, dbSpatial
Eric Menze, Resource Data, Inc.
Gary Swenson, Hennepin County
Randy Knippel, Dakota County
Tony Monsour, Scott County
Pete Henschel, Carver County
Ron Wencl, USGS

Staff:

Geoff Maas, MetroGIS Coordinator

1) Call to Order
Chair Dahl called the meeting to order at 1:10 p.m.

2) Approve Meeting Agenda
No changes advanced; Motion: Kotz; Second: Maloney; unanimous approval

3) Approve Meeting Minutes from July 21, 2016
No changes advanced; Motion: Henry; Second: Carlson; unanimous approval

4) 'UI2' (Utilities Infrastructure Integration) Presentation

Alex Blenkush and Steve Groen of Hennepin County gave an overview presentation of the forthcoming UI2 application. The UI2 is intended to meet the on-going need for better coordination between public agencies and utility providers when programming construction activities.

Utility stakeholders attended a Utility Summit held in December 2015, involving representatives from numerous government agencies and utility companies. At this summit it was agreed that some kind of on-line mapping tool would be a suitable solution to enable coordination between agencies.

Hennepin County Public Works in partnership with the City of Golden Valley and the Metropolitan Council to develop a proof of concept in March 2016 to explore the idea. In April, a second Utilities Summit was hosted by Hennepin County Public Works with a demonstration of an ArcGIS Online proof of concept example demonstrated to the attendees. The Hennepin County GIS Office acquired the business requirements for an online mapping application that would be accessible to all the partners. The Hennepin County GIS Office acquired business requirements for an online mapping application that would be accessible to all partners. The project proposal was presented to GIS Steering Committee in May, who ranked it as a top priority and unanimously approved work to begin with work kicking off in June 2016. Full scale development of the application will take place this winter with the goal of completion by the second quarter of 2017.

Participating organizations in the initial development include: Hennepin County, Metropolitan Council, MNDOT, City of Golden Valley, City of Bloomington, City of Minneapolis, City of Edina, CenterPoint Energy, Xcel Energy, CenturyLink, Comcast Cable and WSB & Associates

The main goals of the project include:

- Improve collaboration between utility partners and right of way managers by improving communications, developing relationships and educating partners;
- Improve efficiencies of construction events and lessen impact on the transportation network and those in proximity;
- Develop methods to aid coordination and information sharing;
- Develop the processes, tools, committees and communications necessary to achieve desired improvements;

The main benefits to be realized by the project include less disturbance of public right-of-way, less frequent redirection of traffic flow and increased cost savings from sharing construction costs and elimination of utility cuts to new roadways.

Alex Blenkush and Steve Groen previewed numerous panels of the UI2 interface in development and indicated that it is being built with ESRI's JavaScript API. Organizations are granted access to enter and view data via an "eGov" connection. All attempts have been made to create a very user friendly interface, with the capability to perform robust filtering based on user chosen criteria such project start data, current status and type. Editing of the data can be done within the application itself. Project sites are represented by polygons in the interface.

Each participating organization determines which kinds of projects they want to add to the application. There are guidelines prepared for the kinds of projects to be entered. Major projects include large capital projects, road overlays, projects with sign pavement or traffic disruptions, power company feeder cable replacements, gas main replacements, sanitary sewer lines, and telecommunication projects exceeding 1500 feet in length.

Additional functionality of the UI2 application includes an automatic notification system which signals project owners when a new project is added or and existing project changes its status within 1000 feet. This is intended to help coordinate the efforts and facilitate earlier contact between project owners. Automatically generated notices are based on a 1000-foot buffer of projects in the system.

Currently (fall 2016) the application is in the midst of building and testing. Toward the end of 2016 the project will be focused on post-development user interface testing with non-GIS users to assess the ease of use. The application is currently scheduled to be in production in the second quarter of 2017, following by awarding access to the interface for interested agencies with the potential of expanding membership.

Read: One of the challenges I see you facing is having each agency, particularly the private sector actors, place their data into the system, how are your engaging them?

Groen: We have been fortunate to have had the utilities involved since day one. Those who are participating are all on board, we knew to make this successful we had to make sure they bought in early and contributed to its development. Also, at the 80% development mark, which we are coming up on, we are going to have numerous non-GIS people from the utilities work with the application to test it out, contribute their thoughts to ensure it is something they are willing to use. The major utilities are all on board, however, we do know of some of the telecommunications interests who don't want their competition knowing what they are working on so they are not participating at this point. Fiber optic lines are not as big a deal, at this stage, we are mainly focused on large subsurface transmission mains and the roads above them.

Maloney: This has amazing potential for inter-agency interaction, I hope you can get a large number of engaged partners on this project. Do you have any thoughts on about how we take this to the next level and how this could be shared in a larger context?

Groen: At this point, we view the UI2 application as primarily a planning tool, but this same thinking and set of tools could be used to serve a larger effort, particularly now that we are seeing the potential of the automated reporting. We also know that we cannot load every single project of every agency into the system, this would overload the tool and its effectiveness, and it's not really necessary, we're focused on the larger projects

Henry: Are you working at all with the new one-call system? I can anticipate seeing a lot of similarities between what you're showing and their needs for their system.

Groen: Not yet, we will be looking to integrate with them.

Henry: Regarding permits, how do you see this application making life easier for you?

Groen: Our office works with approximately 1000 permits a year for utility work, a big part of this job is the utility coordination piece. So, having things mapped out in the way we're thinking with the UI2 and having the agencies who own the projects engaged early makes the entire process easier, and my work easier.

McGuire: Could you share an estimate of the hours of development budgeted for the creation and development of this application?

Groen: Well, we have strong support directly from the top. Commissioner Opat advanced this after seeing some streets being re-done two years in a row. When we starting working with the GIS office this quickly became their top priority; it was pushed by the county board, jumped over all the other projects. So we've got hundreds of hours committed, really whatever it takes to make this happen.

Read: You mentioned using "eGov" to manage access, can you tell us more about that?

Blenkush: This is simply the method by which the County manages and grants permissions to non-County contractors access to our maps and data. This is administered through the IT staff, primarily by Tracy Tisbo in the GIS Office, she is the lead on granting permissions.

Groen: Hennepin County will be the gate keeper for this project for its initial development and early phases, we will see where it goes from there.

Koukol: In Ramsey County, we've been doing a similar thing, ours is all linear based (instead of polygon based) and it is used for annual project map. Do you see this as an eventual metro wide or statewide effort? What are the chances for making this bigger? Having these materials available through a service and posted as a backdrop for just viewing with a few attributes might be enough for most of us.

Groen: We anticipate being able to publish this a part of web services, to put it out there and test it out. If more folks see the value, if it is successful, it certainly could be rolled out as a metro wide system.

Ross: Also, keep in mind we are discussion on a potential development of a unified permitting system for over-weight vehicles. Having this kind of resource available would be very helpful for working these together for routing.

Blenkush: Yes, we know there are lots of uses for this and lots of potential for a wide range of users. Perhaps when we've got it fully moving in 2017, we can come back to present again to this group and let you know how things are coming along.

5) Parcel Data Transfer Standard Review Period

Maas reminded the group that the Parcel Data Transfer Standard, advanced by the Parcel and Land Records Committee and Data Standards Committee is presently available for review. The 90-day review period will be going on until January 20, 2017 and he noted that comments are already coming in on the draft standard. Maas noted the range of recipients targeted in the initial outreach message, including city, county, regional, state and federal governments, the Minnesota Association of Assessors, private sector vendors, emergency/911 stakeholders and numerous others. Once the review period closes, the Parcel and Land Records Committee and Data Standards Committee will convene a joint meeting to review the results and determine which modifications are needed and if the modifications are large

enough to necessitate a second, 45-day review period. Maas pointed the group to the MnGeo website where the Parcel Data Transfer Standard materials are available for download.

6) Metro Imagery Tiling Specification Approval

Maas re-introduced the group to the prior actions of the Committee on the Metro Imagery Tiling Specification. In March 2016, the Committee authorized the creation of a work group, led by Matt McGuire of the Metropolitan Council and including staff from Dakota County, Ramsey County and WSB. The group developed a draft tiling specification and presented it to the Committee at its July 2016 meeting with the direction to the participants to review the document for its fitness as a best practice.

At the July 2016 meeting of the Coordinating Committee, it was agreed that the participants would have until the next meeting to review and provide comment to the work group on the draft tiling scheme with the approval of the document as a best practice as the goal of the effort.

Read: Are there any tools identified in the documentation to help people use it or tile their imagery?

McGuire: No, the document does not have tools but it does provide links to resources and other documents depending on the 'ecosystem' you are using, ESRI, open source or other options. There are

Dahl: We have the action item identified to approve the tiling scheme, is there a motion to approve?

Kotz: I propose we adopt the Metro Imagery Tiling Specification as a best practice
Henry: Second.

Dahl: Is there any further discussion?

Maas: I want to reiterate that this is not a requirement or a standard; it is a resource and a best practice for those in the metro looking to stand up imagery. We should feel free to revisit this document and update it as the technology changes or our needs dictate.

Chair Dahl called for a vote from the Committee, the motion was approved.

7) MetroGIS Policy Board Update

Maas gave a brief update on the status of the MetroGIS Policy Board, which last convened in April 2016. Richfield Mayor Debbie Goettel is the new chair, with Mary Texer of the Capitol Region Watershed District serving as vice chair. The most significant decision of the Board was the adoption of revisions to MetroGIS' Operating Guidelines and Procedures which created two (2) new seats for city representatives. Maas offered up the opportunity for the Committee to decide on the best method for adding two city members from the wide pool of possible city candidates.

Carlson: I might recommend we invite a city outside the core of the metro, perhaps a Shakopee or a Stillwater, I would be interested to get their perspective.

Kotz: I would suggest we publish a notice in the GIS/LIS news blasts stating that we have two seats available and here is the process on how to apply.

Read: Also, aren't there county user groups still in place? I would think we could use those groups to find city people.

Maas agreed to develop an initial outreach plan to share with the group for attracting city membership and reminded the group that the next Policy Board meeting would occur on April 26, 2017 and that he would follow up with the members electronically.

8) 2016 Work Plan Project Updates
At each meeting, brief updates on current regional projects are provided.

8a) Address Points Aggregation Project
Jon Hoekenga gave an update on the status of the Address Point Aggregation process. Currently, the Metropolitan Council is collecting address points twice per year (generally in April and October) from the metro counties and publishing the data the Geospatial Commons.

The Metro Address Work Group met on August 31, 2016 in a joint meeting with 911 stakeholders and agreed on modifications to the Metro Address Point Standard (which is now at Version 3.0) to better align with the needs of NextGen911. This modification has implications for users of the Metro Address Editor Tool.

8b) Metro Regional Centerlines Collaborative (MRCC)
Maas provided a cursory update on the timeline, completion and milestones recently reached by the MRCC. On August 10, 2016 the Core Team met to approve a number of modifications to the data specification and project, most notably to add the attribute for 'Postal Community' to the spec bringing it up to Version 1.5. The 'Second Build' of the MRCC is complete, counties have submitted their data to the FTP portal maintained by the Metropolitan Council with Hennepin County staff aggregating and running an audit on the data. Findings from the audit will be reported back to the counties in November with a public release data of the dataset set for Friday, November 18, 2016 with an informal comment collection period planned through the end of the year.

Remaining work will include a technical session of the MRCC build team sometime in December to more fully address issues around the co-incident geometry, a second Milestone Meeting in February to determine what needs to be addressed in the potential 'Third Build' of the data set and planned monthly updates of the dataset in 2017.

8c) Support for the Minnesota Geospatial Commons
Maas reminded the group that the contract between the Metropolitan Council and MnGeo was executed for $14,100 in fiscal support for the Commons in 2016. No further MetroGIS action is required or anticipated at this time.

8d) Free + Open Public Geospatial Data
Maas shared the updated 'open data' map with the group, 20 of 87 counties have their data freely and only available with 10 counties having adopted formal open data resolutions. The most recent counties to open their data include Rice and Waseca. Maas re-iterated the availability of the research and resources on the MetroGIS website, specifically the 'White Paper II' research document, most recently updated in early October 2016. Maas further described the Free and Open Data survey developed and deployed by the GAC Outreach Committee in September to all Minnesota counties. The results of the

survey are being collected and will be presented at the GIS/LIS Conference in late October and at the Government IT Symposium in St. Paul on December 5-6. Maas also indicted he had been invited to speak at the Regional Fall Meeting of the Wisconsin Land Information Association meeting in Trego, Wisconsin on October 20.

8e) 2016 Aerial Imagery Collection
Maas reported that the vendor (Surdex) had delivered the imagery and it is presently at MnDOT for horizontal positional accuracy checking and would be potentially available on the MnGeo Image Service as early as the first week in November. With the delivery of the imagery and its availability on the Image Server, the MetroGIS commitment to the project is complete.

8f) Historic Aerial Imagery Mosaic & Archive
The Borchert Map Library has completed the scanning and geo-rectification of the 1956 and 1966 imagery and through its arrangement with the Minnesota History Center is making the imagery fully available on its view for viewing and download by the public.

8g) Park and Trail Dataset and Data Standard
Maas reminded the group that two efforts (State and Metro) for the creation of a data standard and dataset are underway; both of which have significant areas of overlap. The Metro Park and Trail effort will conduct two requirements gathering sessions, the first, focusing on parks is scheduled for Monday, Oct 24, 2016 at Ridgedale Library, Minnetonka, the second, focused on trail network data needs and requirements Thursday, Nov 10th, also at the Ridgedale Library, Minnetonka.

8h) Metro Regional Stormwater Dataset – On-Going Requirements Gathering and Research
Maas reminded the group that this remains a research and information gathering effort. To date, we have documented twenty-one (21) agencies and interests with a **defined business need** for an inter-jurisdictionally integrated network of data and list of at least another 25 agencies and interests identified yet to be interviewed. At present there is no *policy-level champion* or **work team** assigned to the effort. Maas indicated that he presented **MAWD Board of Directors** in late July and they remain interested in the potential of the project. Maas also indicated he would be looking to connect with MPCA staff in 2017 to refine the approach and potentially shape a pilot process.

9) New Project Proposal: MetroPlus Free Geocoder
Project document is available here: http://www.metrogis.org/projects/Project-Templates.aspx

Curt Carlson gave a short overview of the project proposal and the needs to be potentially met by a new geocoder. He indicated that the existing free geocoder dates from about 2013 and remains at about 1000 hits per week, about 450 of which are coming from Northstar MLS. The existing geocoder uses the metro parcel data along with the NCompass Street Centerlines and Landmarks. Carlson indicated that his intent would be for a wider public access to the resource, promotion of its use by the business community and explore the potential for expansion into Wisconsin and Greater Minnesota. Carlson indicated that he needed to rely on a public geocoder created and maintained by Texas A & M University, however their 'uptime' is not always 100% and the accuracy of that service is not consistently high.

Carlson: One of the goals of the geocoder would be the ability to submit "dirty addresses" have them parsed, and come out "clean" and usable with the location intact. Carlson also raised key questions about the potential geocoder project, primarily: how will it be hosted and how would it be funded.

Read: One of the big questions is if we could engineer in the old geocoder which still works fine, but to enhance the ability to get updated data. We no longer have really robust updates or automated updates, having updated data we can rely on is central to enhancing the geocoder. We would like to put together a geocoder work group to explore the issues further and we acknowledge there might be some expenses for a one-time set up or maintenance. The goal would be to be using the new address points as they are developed and updated.

Ross: The State has a 9-level cascading geocoder which it uses, but we use protected and federal data that we don't have the ability to share. We'd like to see something where we can contribute and make a statewide public solution.

Carlson thanked the group for considering adding the project to the MetroGIS work plan and asked if there were any additional questions about the project.

10) 2017 Work Plan Development

10a) 2017 Work Plan: Survey Results

Maas reminded the group of the survey sent out in late August to prioritize the existing and proposed projects for the 2017 Work Plan and thanked them for contributing their input. The survey asked them about their agency's business need for the projects listed (high, medium, low, no need) with the following results (below):
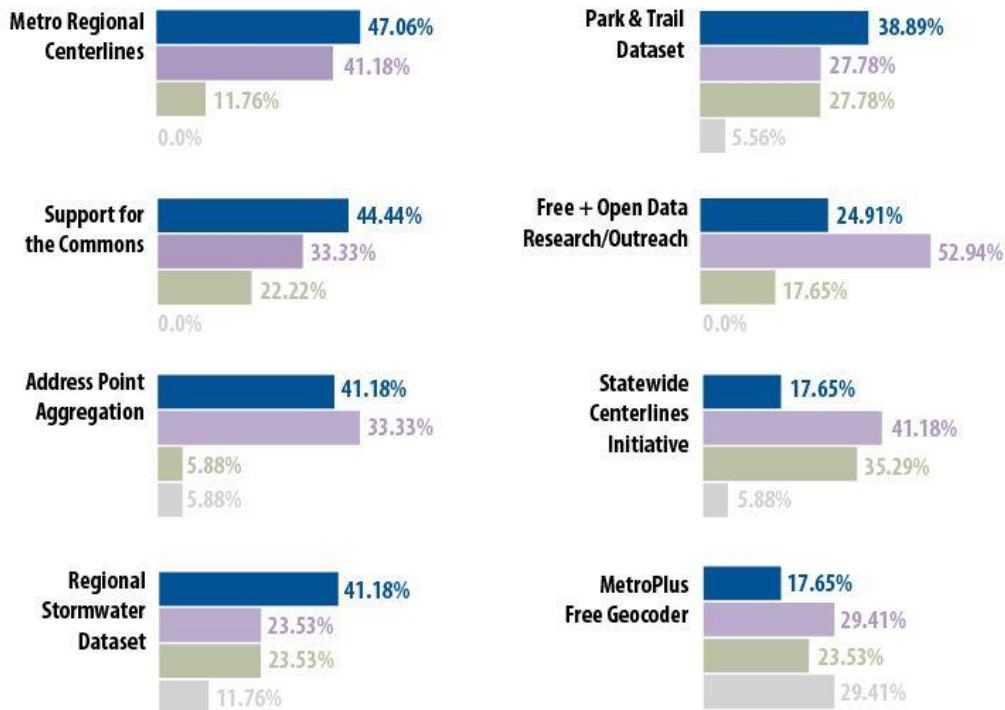
10b) 2017 Work Plan - Prioritization Exercise

Mark Kotz led the group in reviewing the survey results and the annual prioritizing exercise emphasizing the following criteria (1) the results of the survey, (2) the 'likelihood' of success including the presence of a work team, owner and champion and availability of funding and, (3) the collective wisdom of the group. After the prioritization exercise, the Committee developed the following recommendation:

Project or Activity Name	Status	Work on in '17	CC Rank	Priority Score	Value Score	Effort	Project Owner(s)
Address Points Aggregation	Active	Yes	1	418	38	Med	Kotz
Metro Regional Centerlines	Active	Yes	2	400	40	High	Metro County Managers
Park & Trail Data/Standard	Active	Yes	3	360	36	High	County Managers (Metro) DNR/MnGeo (State)
Geospatial Commons	Active	Yes	4	440	40	Low	Ross
MetroPlus Free Geocoder	Proposed	Yes	5	207	23	Med	Carlson/Read/Baker
Free + Open Public Geospatial Data	Active	Yes	6	432	36	Low	Maas
Statewide Centerlines Initiative	Active	Yes	7	261	29	High	Ross
Regional Stormwater Dataset	Research	Yes	8	132	33	High	Maas (de facto until SME emerges)
Increased Parcel Update Frequency	Inactive	No	9	66	22	Low	
Create Regional Basemap Services	Inactive	No	10	50	25	Med	

This ranking provides the basis of project priority for the 2017 Work Planning cycle for MetroGIS. Chair Dahl asked the group for a motion to approve the ranking.

Koukol: I motion for approval;
Carlson: Second;
Dahl: Any discussion? If none, let's vote;

Approval of ranking was unanimous by the Committee.

11) Lightning Round Update

Brad Henry (U of M/MN-2050): I want to remind the group again of the on-going work of MN 2050, yesterday (October 13, 2016) we got over to the policy side and presented at the state policy conference. The policy makers need to hear what we're working on and know how important it is.

Norine Wilczek (MnDOT): No update.

Craig Prisland (Carver County): We are in the process of uploading images from the 2016 collect and we have been engaged in a Rapid Damage Assessment with our 911 Emergency Department, we are starting early as we know we'll likely see some flooding in April of next year.

Tom Bushey (Hennepin County): No update.

Matt Koukol (Ramsey County): WE have been making use of our relatively new (2015) impervious surface data form 2015 imagery, we will be loading that into the Commons next month. We've received really good feedback from users it contains much more than just the impervious surface, many features are represented in the data. We've gotten lots of good feedback from the engineering firms that are using the data, they are very pleased with the quality. Regarding open data, Ramsey County is moving from not just open geospatial data, but to a full open data position, we have an RFP out to vendors to support a larger open data platform.

Jim Fritz (Xcel Energy): We do a large amount of work to enter our easement data into a spatial framework with a backend Oracle database to track our easements. Part of that interface allows us to turn on and off the section lines and quarter-quarters and we commonly find many inaccuracies at the quarter-quarter and section line level. Is there any potential for a discussion about how that data could be made more current and more available? I know that much of that data comes from the 1990s and much of it was digitized from 1:100,000-scale quad-sheets. Is this the kind of project we could add to MetroGIS in the coming years?

Dan Ross (MnGeo): To your point about the PLSS data, both the DNR and MnDOT agree that both of these resources these need to be updated and worked on relative to the county boundary layer, the CTUs and all levels of the PLSS data. We are looking to draw together a stakeholder team on how to take local data and update the statewide layers, that will come back around to the full range of users.

Henry: Once that is done, we need to get the DOT owned land into the parcel data set as well, Dan.

Ross: Easier said than done, Brad!

Matt Baker (MAC): AT the Airports Commission, we're three-months into an enterprise GIS project, looking for technical solutions to merge our open source work with the ESRI world. We are also trying to set up an internal business oversight group at the MAC, at present no one wants to fully own GIS at the MAC. We are open to ideas on how other agencies and counties are doing their oversight.

Dan Ross (MnGeo): We remain engaged in collecting address points, centerlines and parcel data from all counties in Minnesota, we have only a few counties where either we have not been able to collect the data or who have no data to share. We have parcel data for all but two counties at this time, it is very cool to see local government advance the way they are coming along with data development, among our biggest challenges are the address points. I'll have more to share on all this at the Conference.

Jared Haas (City of Shoreview): Nothing to add at this time, first time at this group, looking forward to working more with you.

Mark Maloney (City of Shoreview): I just wanted to make a plug that this group not lose sight of the potential of the stormwater project. In our city we have a range of water related issues, from the prior low ground water levels and declining lake levels to the current road closures. All our lakes are now exceeding their high water marks, in four short years we've gone from one extreme to the other, from low water to too much/ The water topic is going to drive the dialogue for a long time to come in our part of the metro and elsewhere in the state. All the applications and datasets that can be developed to relate to water will continue to be in high demand, and these issues are very much on the mind oft eh elected officials. We all know water doesn't respect boundaries this is going to be an issue from the federal/USGS level down to the cities. Also, I was glad to hear Matt mention the impervious surface.

Having this kind of data available is really important from a city perspective. We continue to work with MPCA on looking at chloride impairments with road salt penetration. Having the data helps us pin down where it comes from.

Curt Carlson (Northstar MLS): Just wanted to plug the geocoder again, thanks for adding to the plan, we look forward to working on it. .

Nancy Read (MMCB): We are excited to have and are already making use of the new aerials from Surdex as part of the 2016 collection. Our field staff are very happy with the preliminary imagery and we're, looking forward the first full set of imagery. We are already engaged in updating the wetland information using the aerial photography.

Jeff Matson (CURA): No update.

Jon Hoekenga (Metropolitan Council): No update.

Mark Kotz (Metropolitan Council): Every few years, the prior MetroGIS Coordinator Randy Johnson, would make a presentation to the Metropolitan Council and have them renew their commitment to the collaborative. This year, Geoff talked to the executive level leadership and they decided we don't need approval, they see the long-term benefit of a collaborative effort like MetroGIS and we no longer need to ask for permission to do this work. They are interested in having Geoff give an update and status presentation which will happen sometime between November and January. This is great for us, in the eyes of our leadership the Value of MetroGIS is fixed, we no longer have to justify its existence.

As far as the GIS Team at the Metropolitan Council, we continue to work on numerous mobile applications to support the construction activity on SW light rail line. The demand for mobile inspection applications, river monitoring applications, also for uses of ArcGIS Collector continues.

Also, the Make-A-Map application is planned to be retired. If you use the Council's Make-A-Map application, please know it is going to sunset it very soon. We now maintain several smaller apps that meet the specific business needs instead. Please let anyone you know who uses Make-A-Map as we don't maintain a list of current users.

Finally, we have an effort at the Council to review our numerous existing set of policies. The IS Department is will be focusing on its information policy, which to date has been focused on how we keep confidential data covered, but we feel we should try to expand it to include a free and open sharing component on that as well and the policy of having really good metadata along with the data we provide. I will be working with Geoff and others at the Council on crafting that language in the coming months.

Erik Dahl (EQB): No update.

Geoff Maas (MetroGIS): I am putting on my other "hat" as the chair of the Standard Committee, and encouraging you all to take a look at the Parcel Data Transfer Standard. Your comments are all very welcomed and encouraged, please don't hold back and let us know what you think of the proposal.

Alex Blenkush (Hennepin County): We look forward to continuing to work on the UI2 and the forth coming Park and Trail efforts. Also, our staff has a large commitment to the 911 effort at the county level.

Steve Groen (Hennepin County): Two years ago, we we're approached by GIS department and we not totally sold on its value, but we are using it a lot more in Hennepin County's transportation planning work and have come to appreciate what it can do. As part of the transportation planning work, we'd like to know more on the stormwater effort; this is huge, just knowing where the water is flowing is a continual challenge and we need better information for our MS4 permitting and compliance, having better data on all this would be a huge asset for our Public Works staff.

Matt McGuire (Metropolitan Council): Nothing to add other than to thank you for supporting and adopting the Metro Tiling Scheme Best Practice.

12) Next Coordinating Committee Meeting
The next Coordinating Committee Meeting is scheduled for **Thursday, January 12, 2017**

13) Adjournment
Chair Dahl adjourned the meeting at 3:09 p.m.

MetroGIS Coordinating Committee: Meeting Minutes
Thursday, January 12, 2017, 1:00 pm – 3:30 pm
Metro Counties Government Center, 2099 University Avenue, St Paul

Meeting Minutes (Approved on June 8, 2017)

In Attendance:

Erik Dahl, EQB (Chair)	David Brandt, Washington County (V. Chair)
Randy Knippel, Dakota County	Brad Henry, University of Minnesota
Curtis Carlson, Northstar MLS	Norine Wilczek, MnDOT
Mark Kotz, Metropolitan Council	Jeff Matson, CURA
Nancy Read, Metro Mosquito Control Board	Matt Koukol, Ramsey County
Matt Baker, Metro Airports Commission	Alex Blenkush, Hennepin County
Jared Haas, City of Shoreview	Carrie Magnuson, RWMWD
Ben Verbick, LOGIS	Tony Monsour, Scott County
Len Kne, U-Spatial	Pete Henschel, Carver County

Guests:
Dan Tinklenberg, SRF Consulting Group
Matt McGuire, Metropolitan Council
Jon Hoekenga, Metropolitan Council
Jeff Bloomquist, Federal Government

Staff:
Geoff Maas, MetroGIS Coordinator

1) Call to Order
Chair Dahl called the meeting to order at 1:07 p.m.

2) Approve Meeting Agenda
No changes advanced; Motion: Henry; Second: Read; unanimous approval

3) Approve Meeting Minutes from July 21, 2016
No changes advanced; Motion: Kotz; Second: Henry; unanimous approval

4) MetroGIS & Geospatial Advisory Council Work Plan Priorities Comparison
Maas provided the members of a Committee with a table showing current Geospatial Advisory Council Project priorities and their ranking and how these priorities align with the current MetroGIS work plan projects. He introduced Mark Kotz (Chair of the Geospatial Advisory Council) and David Brandt (MetroGIS' representative to the Geospatial Advisory Council) to discuss the projects and process.

Kotz: For the GAC project listing, we identified initiatives and activities that GAC members felt would contribute to the advancement of geospatial work in the state. We used a similar prioritization process on the GAC list as we do here in the metro, ranking things with 'high', 'medium', and 'low' priority, scoring them and arranging them in a priority listing. Many of the state projects align with the MetroGIS projects, however, not in the same priority order. Despite that, there are numerous similarities between the two lists. Additionally, the GAC priority list is advanced to MnGeo as their priority list of projects to take on at the state level.

Read: I see there are several references to the Image Service on the GAC list, appearing three different times. Can you talk a little about what is happening with the Service?

Kotz: GAC members agreed that the Image Service is a priority; to keep it running well, to get funding to keep it going and to determine how to accommodate both new data coming and how to handle and archive the older data. Also, how to allocate and plan for storage space will be important moving forward The Image Service remains a critical need for many agencies and users around the state. The fourth ranked project is focused on transitioning to https:// for security and how to handle image tiling. Items 10 and 11 deal with the need to potentially retire and archive images. The Service takes a large amount of storage space and there are maintenance costs associated with it.

GAC Rank	State Project	MetroGIS Project	Metro Rank
(n/a)	*(Project not listed in GAC ranking)*	**Support for the Geospatial Commons**	**1st**
1	**All Data Free and Open**	**Free + Open Data Initiative**	**2nd**
2	**Sustaining the Image Service**	*(no comparable regional project)*	*(n/a)*
3	**Reform the LiDAR Committee**	*(no comparable regional project)*	*(n/a)*
4	**Image Service: HTTPS, Tiling, Etc.**	**Shared Imagery Tiling Specification**	**Adopted 10.13.16**
5	**Statewide Parcel Data**	**Regional Parcel Dataset**	**New MOA 01.01.17**
6	**Address Points Data**	**Address Point Aggregation**	**3rd**
7	**Street Centerline Data**	**MRCC & Statewide Centerline Initiative**	**4th, 6th**
8	**EM Damage Assess Data Standard**	*(no comparable regional project)*	*(n/a)*
9	**Basemap Services**	**Creation of Regional Basemap Services**	**10th**
10	**Archiving Policy/Procedure**	*(no comparable regional project)*	*(n/a)*
11	**Image Service - Dozens of Years**	**Shared Imagery Tiling Specification**	**Adopted 10.13.16**
12	**Geocoding Service**	**MetroPlus Free Geocoder Project**	**8th**
13	**Parks and Trails Data Standard**	**Metro Park and Trail Data Collaborative**	**5th**
14	**Point-in-Polygon Lookup Service**	*(no comparable regional project)*	*(n/a)*
15	**Address Points QA/QC Tool**	**Address Point Aggregation**	**3rd**
16	**Real Time Assess/Planning Tool**	*(no comparable regional project)*	*(n/a)*
17	**Tillable Change Finder**	*(no comparable regional project)*	*(n/a)*
(n/a)	*(no comparable statewide project)*	**Regional Stormwater Dataset (Research)**	**7th**

All Geospatial Advisory Council materials on are found here:
http://www.mngeo.state.mn.us/councils/statewide/

5) 2017 MetroGIS Work Plan Approval

Maas reminded the group on the process of how the 2017 work plan was developed, this being from existing projects carrying into 2017, new projects proposed, ranking and input from the annual work plan survey in September and the prioritization exercise at the Fall Committee meeting. A draft 2017 Work Plan was completed and posted to the website on December 1, 2016, a notice was sent to membership to let them know they had the opportunity to provide comment or updates. Maas displayed the current budget and the current project priority list and asked the group if there was any need to re-order the list prior to putting the plan up for adoption.

2017 MetroGIS Work Plan Priority List:

Project	Work on in 2017	Committee Ranking	Priority Score
Support for the Geospatial Commons	Yes	1	440
Free + Open Public Geospatial Data	Yes	2	432
Address Points Aggregation	Yes	3	418
Metro Regional Centerlines	Yes	4	400
Park & Trail Dataset/Data Standard	Yes	5	360
Statewide Centerlines Initiative	Yes	6	261
Regional Stormwater Dataset (Research)	Yes	7	132
MetroPlus Free Geocoder	Yes	8	115
Increased Frequency of Parcel Updates	No	9	66
Creation of Regional Basemap Services	No	10	50

No suggestions were advanced for re-ordering the project priority list. Chair Dahl asked if there was motion to approve the 2017 Annual Work Plan.

Motion: Kotz, Second: Carlson, no discussion, unanimous approval. 2017 Work Plan approved.

6) Proposed Parcel Data Transfer Standard: Review Period, Timeline & Next Steps

Maas, who also serves as the chair of the Standards Committee, reminded the group that the Parcel Data Transfer Standard comment period remained open for another week, until Friday, January 20, 2017. He described the present status of the development of the Parcel Data Transfer Standard and next steps in its advancement, these include:

- Collection of all comments received;
- Development of report containing all the results;
- Responses to all stakeholders who provided comment on the proposed standard;

- Convening a joint meeting of the **Standards Committee** and **Parcel and Land Records Committees** to review the report and make a recommendation for advancing the standard for either further modification and review or for approval.

Maas directed the group to what resources were available (standard document, FAQ document and sample dataset) on the MnGeo website

7) New Memorandum of Agreement: Fully Executed between Counties & Council

Maas announced that as of December 12, 2016, all Seven Metropolitan Counties had signed the new Memorandum of Agreement and executed the contract with the Metropolitan Council. This memorandum and the accompanying contract continues the existing relationship between the Counties and Council in the standardization, assembly, and publication of the Regional Parcel Dataset. The MOA/Contract will be in effect until December 31, 2018, with the option for two 1-year extensions through December 31, 2020.

8) MetroGIS Policy Board Update

Maas provided a brief update on the status of the Policy Board. In the November 2016 elections, Policy Board Chair, Richfield Mayor Debbie Goettel was elected to the Hennepin County Board of Commissioners and Mayor Terry Schneider of Minnetonka stepped down after 19 years of service to MetroGIS.

This means the two seats committed to Metro Cities representatives need to be filled. Maas is currently working Metro Cities Executive Direct Patricia Nauman to have new candidates identified.

The next MetroGIS Policy Board annual meeting will be held on Wednesday April 26, 2017 at the Metropolitan Counties Government Center in St. Paul. Demonstrations from MetroGIS stakeholders and participants are anticipated to feature heavily on the agenda.

9) Current Work Plan Projects - Brief Updates

9.1) Support for the Geospatial Commons

The top priority for MetroGIS in 2017 is the sustaining of the Minnesota Geospatial Commons. As of January 1, 2017, the Commons has 23 organizations contributing their data to the Commons with 595 individual resources available. MnGeo has taken on the full funding responsibility of maintaining the Commons.

9.2) Free + Open Public Geospatial Data Initiative

The Free and Open Geospatial Data initiative is the second highest priority for MetroGIS and the highest priority for the Geospatial Advisory Council. At present, 20 counites are making their data freely and openly available.

Len Kne described the recent efforts of GAC Outreach Committee and its Open Data Survey that was send to all 87 counites in the state. The final report of survey results is available on the Outreach Committee's website.

Kne, Maas and Kari Geurts of the Department of Natural Resources were involved in presenting the survey results at the following events this past fall, these included, the GIS/LIS Conference (Oct 27) in Duluth, the Association of Minnesota Counties (Dec 5) in Minneapolis and the Government IT Summit (Dec 8) in St Paul. An important piece of intel gathered at the

Association of the Minnesota Counties was the perception by county commissioners that a 'captive site' *(a website where the county's GIS data is viewable/clickable for information but not downloadable)* equates to their data being publicly available. This was an important finding for the continuing education of county commissioners and other leadership in non-open counties to advance the free and open data initiative.

9.3) Address Points Aggregation

Significant progress has been made on the Address Point effort during 2016. Maas presented the breakdown of the effort into several component parts:

Status of the Data. At present, the Regional Address Point Dataset contains five counties worth of data (Anoka and Washington have not begun their address point development effort). As of the October 2016 collection of county-aggregated data, there are 942,801 address points in the dataset. The data is available on the Minnesota Geospatial Commons as a Regional Dataset.

Status of the Standard. On August 31, 2016, the Metro Address Work Group and 911 interests convened to discuss potential closer alignment of their specifications. After comparison, the Metro Address Work Group agreed to modify its current standard V. 2.0 [2015] up to V. 3.0[2016] to meet the needs of the NextGen911 effort.

Kotz: At some point after the Parcel Data Transfer Standard review and reporting are near to completion, the Metro Address Work Group will advance the Metro Address Point Standard as a candidate for review and potential approval as the statewide standard.

Status of the Editor Tool. The current Metro Address Editor Tool is still configured to create data in V. 2.0 [2015], C with the upgrade of the Metro Standard to V. 3.0[2016] in September 2016, Council staff contacted the vendor who created the Editor tool (Northpoint in Duluth) in Fall 2016. The vendor indicated that it would be a minor reconfiguration to upgrade the tool to create data in the V. 3.0[2016] standard.

During the deployment of the tool in 2015 and 2016, the user community has identified a number needs, new features, and functionality they'd like to see a new version of the tool contain.

These include:

- Expand the searchable fields within the application;
- Support checks for street name discrepancies between address point and adjacent centerline or parcel;
- Update the 'config' file to be flexible and configurable for
- different database schemas and to be more flexible and interoperable with different case scenarios for the database schema;
- Functionality to add address points in bulk: (In case of adding 100+ multiple units, for example)
- The ability to use the address editor in a mobile environment (on an iPad)
- Security enhancements;
- Move the username and password from the config file that is read by the web browser to a proxy page;
- Basemap configuration enhancement;
- Better integration with ESRI basemaps;
- In its current state, you can list several basemaps, but...ESRI World Imagery doesn't have any labels (a reference service is needed);
- Enhancement to support both raster cache and vector cache giving developers more control over symbolization;

Some next steps identified for the address point work include the following:

- **Standard:** Advance the Metro Address Standard V 3.0[2016] for consideration as a state address point standard; The Metro Address Work Group has conferred with the 911 interests and there is agreement that this would be a positive and beneficial step.

- **Editor Tool:** Define, prioritize, and fully document the full range of changes desired by the user community to the existing Editor Tool for the next version (updated) of the Editor Tool. The Address Work Group would work with the cities and counties using the current version of the tool to document their specific tweaks, changes, and requests for a new version of the Editor.

- **Data producers:** After a state address point standard has been reviewed and approved and a new Editor Tool is built to accommodate the standard, data producers and aggregators can then align their ETL and other internal processes to facilitate the production of address points.

9.4) Metro Regional Centerlines Collaborative

The MRCC Group continues to develop the first version of the MRCC road centerline dataset. The Second Build of the data was completed on September 30, 2016. Hennepin County and the Metropolitan Council have developed an interim aggregation/semi-manual validation routine for collecting the data and running quality checks on it. Originally the data was going to be published publicly on November 18, 2016, however, Build Team members want to resolve outstanding issues more fully—such as working with co-incident geometry along boundaries.
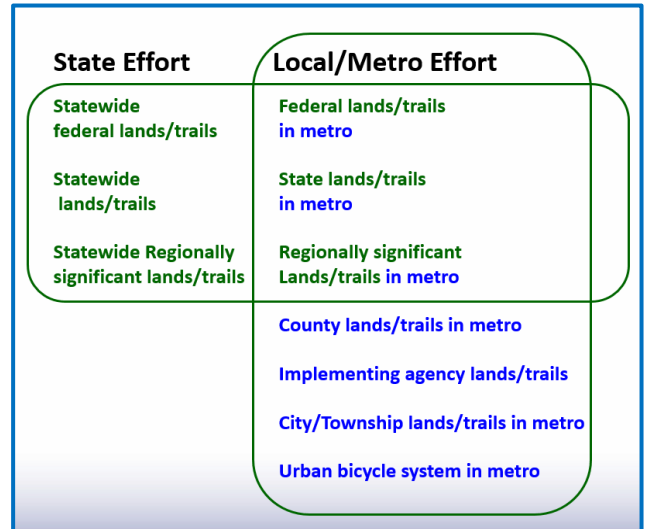
A Technical Session of the MRCC partner's organizations is scheduled for January 19, 2017. Following this session, a full report of findings and next steps will be tendered to the Core Team membership for approval and action, including next steps on a more robust hosting solution. The MRCC Build Team will determine a new date for the public release of the data.

A 'Milestone Meeting' of the MRCC membership is scheduled for February 23, 2017. Decision, planning and task assignment for any next steps will be decided upon at that time.

9.5) Park and Trail Dataset and Data Standard

The Seven Metropolitan Counties, metro Park Implementation agencies and the Metropolitan Council commenced work on a metro regional park and trail data standard and dataset. This effort parallels the effort also in the works among state agencies.

The metro partners convened for two requirements gathering/business needs assessment sessions this fall. The October 24 session focused on gathering 'parks' requirements, while the November 10 session focused on 'trail' requirements.

State Effort	Local/Metro Effort
Statewide federal lands/trails	Federal lands/trails in metro
Statewide lands/trails	State lands/trails in metro
Statewide Regionally significant lands/trails	Regionally significant Lands/trails in metro
	County lands/trails in metro
	Implementing agency lands/trails
	City/Township lands/trails in metro
	Urban bicycle system in metro

The park and trail partners are examining the ability of the NRPA (National Recreation and Park Association) data model to align with their expressed business needs. Next steps for the Park and Trail effort include a Build Team Conference call on January 25, development of metadata and a maintenance plan by early February, review and approval by the Core Team by mid-February and convening on 2/23/17 to determine what constitutes the 'build phase' of the project.

9.6) Statewide Centerlines Initiative (SCI)

The original MnGeo/MnDOT SCI effort has evolved into the MnGeo/ECN 911 Centerlines Effort. The 911 partners are continuing to work statewide to develop a data standard that meets the needs of the 911 user community. On-going effort is focused on developing upload and portal protocols and resources, with review of 911 standards anticipated to commence in February 2017.

Key efforts in the metropolitan region include working with Washington and Isanti County to complete their data preparation, development of PSAP boundaries and beginning to pilot out GIS-based MSAG, ECRF and LVF resources.

9.7) Metro Regional Stormwater Dataset – On-Going Requirements Gathering and Research

This effort has been largely focused on information gathering, research and informal contact of potential stakeholders to date. Geoff Maas and Carrie Magnuson have volunteered to act as co-coordinators for the effort in getting the effort better defined and underway in 2017. Among the first actions will be the creation of an initial work team/steering team drawing from the prior stormwater effort (2008-2010) and the recent interviewees (2013-present) on their business need for an integrated data set. The steering team would flesh out a more complete picture of the set of business needs to be addressed.

Additionally, a sample dataset would be prepared as a resource that could be exchanged among the partners to spur discussion, built test models and applications to test the viability of the current Draft Stormwater Data Exchange Standard. The sample dataset would cover the 12 cities in the Ramsey Washington Metro Watershed District and build upon the prior MetroGIS effort in 2008-2010.

Maas requested that $8000 of the 2017 MetroGIS budget be earmarked for the development of this sample dataset. Maas also noted that the Ramsey County GIS Users Group was interested in potentially providing funding to the effort as well. (Maas tendered a request to the group for an additional $8000 on January 16 and has been asked to present to the group on February 2 on the project). A private consultant, watershed district staff or the U of M Institute for the Environment are possible candidates to perform this work.

Knippel: Would this allotment of $8000 be competing with budget needs for other projects?

Maas: At present, no other MetroGIS project has asked for funding other than our commitment of $28000 to the counties and I have identified a need for about $2800 for a content management system upgrade for our (MetroGIS) website. I am only asking for an 'earmark' at this point for the stormwater, there is no contract in place with a vendor.

Read: If we fund this, how much would be left for other projects?

Maas: Including the payments to the counties, miscellaneous expenses (which I rarely come close to husing), Kentico CMS upgrade and the $8K for the stormwater project, there would be $45,200 remaining for projects in 2017.

Knippel: I would want to make sure we have enough for any improvements to the Address Editor Tool.

Kotz: The remaining funds should be plenty for any Address Tool work, we won't be competing with funds for that, if we need to update the tool, we can make sure there are resources to do that.

Dahl: Is there a motion to approve Geoff and Carrie to assemble a work team for the stormwater effort? Motion: Knippel; second: Kotz. No discussion, unanimous approval.

Dahl: Is there a motion to earmark $8000 for the sample dataset creation?
Motion: Kotz, second: Brandt. No discussion, unanimous approval.

Maas and Magnuson will report back to the Committee at its next meeting in May on their progress.

9.8) MetroPlus Free Geocoder
Curt Carlson updated the group on the present status of the emerging Geocoder effort. The project team (Carlson, Magnuson, Read, Baker, with Sean Murphy and Matt McGuire of the Metropolitan Council and Mike Dolbow of MnGeo) convened for a conference call on December 19, 2016. On the call the members determined the next steps are to assess the existing geocoder resources made available by the Metropolitan Council and to create a list of the specific business needs and functionality of the desired MetroPlus Geocoder resource to be created. At present no budget has been assigned to the project, but as a MetroGIS priority project it is eligible for MetroGIS budget funding.

10) Lightning Round Update
During the lightning round, participants are encouraged to provide an update of what their organization or agency is presently working on.

Randy Knippel (Dakota County): From the MetroGIS Data Producers Work Group, which I chair, and the Eight County Collaborative which includes our seven counties plus Olmsted County, their GIS Coordinator Jan Chezick participates in those calls. We meet monthly, with an expanded group every other month to include MnGeo, MetroGIS, MESB, NextGen11 and city representatives. Our eight-county group was established by our County Managers and IT Directors, and we report back to them on our collaborative efforts. Work we've been discussing and advancing recently has included the MRCC, the emerging Park and Trail effort and we discuss other topics including the damage assessment application, UI2 being developed in Hennepin County, coordination in purchasing aerial imagery and so on.

For Dakota County, we are presently acquiring oblique aerial photography this year, there is some uncertainly about our ability to use Pictometry as a sole source provide, other companies making the claim that they can offer a comparable product. We created an RFI at the end of last year and have received responses back from seven different vendors. In general, oblique aerial photography is still emerging as a commodity; there are several vendors who create a good product, with companies using the five 5 concurrent cameras to acquire the obliques. As far as the software capabilities, this is still in development; another piece we are looking to explore is

the 3D modeling to mesh with Google Map and Apple 3D. There is software of the shelf that does this, it is expensive at this point, with some companies exploring how to deliver this as a service. We're going to be keeping our eyes on this.

We were part of the partnership with the Metropolitan Council in April 2016 to purchase leaf-off imagery, and we also have acquired leaf-on imagery during the summer, chiefly to serve our code enforcement for shore land protection. This is really the first time we've done that and we very likely continue to do so as time goes on.

Brad Henry (University of Minnesota): As you know, I'm involved with the MN 2050 effort; our focus is now on the Asset Management aspect of the work. On December 1, the APWA was in town to do advocacy training for asset management, an there is probably no surprise that the number one priority for the Minnesota Chapter of the APWA is the use the 2050 pilot project as a way to get things moving. We are continually surprised to find just how much people are not aware how much infrastructure we have underground and not aware much it is worth.

Len Kne (U-Spatial, University of Minnesota): No update other than we are continuing work statewide on Open Data through the Outreach Committee at the Geospatial Advisory Council.

Norine Wilczek (MnDOT): We continue to support our internal mapping application Georilla; which is based on GeoMoose and MapServer for Windows. We hired a consultant from Shared Geo to help update the framework to Open Layers III and we will be looking to make the material viewable to the public. We are building additional functionality, such as a 'favorites list' in the catalog, which is defined by the user. As the application has over 400 layers, being able to select only the layers you use frequently improves usability. We will also be looking to include a mobile component to work on tables and phones in the field. Also, we will be working to external layers to the views to enable 'drag and drop' things like KML files. After June 30, we will be looking to allocate additional funds to improve the tool. We've focused on the Metro and District 6 (Rochester area) but would live eventually to expand it out to other districts, we remain focused on the metro for now.

Knippel: What was the driver for Georilla to use open source?

Wilczek: Mostly to minimize the access hurdles and to minimize number of systems to log into and focus on the aspect that most users are just viewing the data. The open source platform enables us to create something really user friends, and also to facilitate linkage to project documents.

Tony Monsour (Scott County): Scott County is going to be adding a fourth member to our GIS team at the Senior Analyst level, this really helps expand our GIS capacity. He had been working out in North Dakota in the oil fields. The new hire will be working with our county public works department, working as a data coordinator on cataloging their data.

Matt Baker (Metro Airports Commission): No update.

Pete Henschel (Carver County): We will be looking at getting aerial ortho imagery this summer as well as developing a damage assessment application this summer. Last summer we were involved with a recycling study project, using the collector applications in different neighborhoods, helped us understand the waste collection efforts.

Dan Tinklenberg (SRF Consulting Group): I'm glad to be here; and really looking forward to the opportunity of working with the committee in the future.

Matt Koukol (Ramsey County): I've got just a couple basic updates, our impervious surface data is now up on the Commons, it is integrated into other datasets, we pretty much have eight different collections of layers available. Each dataset in those series contain a number of data layers. The impervious data is based on our 2015 flight and we look to update date it base on our 2016 imagery as well. In February, we've got an asset management project coming, it has been in the works for some time, it is going to be a very GIS-centric application. Regarding open data, geospatial data has really led the way in the county and we are leveraging that momentum to the presumption that all our data is open except for a federal, state or legislative designation, or if the data could be used to cause harm of has an allowable fee schedule.

Henry: Who is taking lead on asset management at the county?

Koukol: Jim Toles is the main driver for that at the county, but my group is also very central to it, it is a very GIS-focused, GIS-centric.

Jared Haas (City of Shroeview): No updates.

Ben Verbick (LOGIS): Our public safety roll out of Tri-Tech continues and we're working with CAD as well, and looking to generate interest in municipal government participation in regional effort. We've found it somewhat challenging to get cities to participate and interested but we are working on expanding that message. We've invited Geoff to come and talk to our group on February 8th to hopefully inform them on how to engage and enhance their participation.

Carrie Magnuson (Ramsey Washington Metro Watershed District): Nothing new to report, other than I'm excited to get working on the stormwater project.

Alex Blenkush (Hennepin County): We are in the later stages of testing on the UI2 project; we've had very positive feedback so far from all our stakeholders. Our municipalities are part of the test group, meeting tomorrow (Jan 13) with cities on how to get them more connected to the effort. We are set to roll this out in spring, hopefully by April. Steve Groen of Public Works will be setting up another Utility Summit this spring as well, and we hope to use this to find other collaboration opportunities with our cities. As was discussed earlier, we are engaged in the metro-wide park and trail project, so we're working on that and promoting that with our

cities in the county, using that as a test case in seeing the value in participating with these larger projects.

Curt Carlson (NorthStar MLS): You heard about the MetroPlus Geocoder project earlier, we are still compiling the business needs for a geocoder, link to our documentation of compiling our business needs, we are interested in getting everyone's input who has a need for this resource.

Matt McGuire (Metropolitan Council): One short update, the Metropolitan Council is converting all its websites to 'https', this includes the MetroGIS website. We should have all our sites converted in the next month or so.

Jeff Matson (CURA): I have students looking for internship and other opportunities, so please contact me anytime in the next few weeks if you have work you need done.

Nancy Read (Metro Mosquito Control Board): We are still working on our rainfall data project, storing the rainfall history data for points across the metro to support our work. We are very interested in the new 2017 aerials which are potentially available for us to work with. Hopefully those of you who are planning flights in 2017 can share that via the Image Service.

Jon Hoekenga (Metropolitan Council): No update.

Mark Kotz (Metropolitan Council): All the spring fight imagery collected in April 2016 is now available on the MnGeo Image Service. The Metropolitan Council is a client of LOGIS and using the Tri-Tech customer dispatch for our Metro Transit services. Regarding our bus service applications, we are improving them to you can determine on the map where the bus is, as opposed to just the time it is scheduled to arrive. On the website or the NextTrip application you will be better able to anticipate the bus by location. We are working with some older GPS technology on the buses, so in downtown areas, the signal is not as strong. With the signal only reported every 90 seconds—which doesn't seem like a big deal, but 90 seconds is a long time when running to catch a bus—we still experience and anticipate some glitches.

Other projects include our Bus-On-Time performance. We are continually working to optimize the route, so the busses are 'hitting their marks' at the stops on time but also to know when they are running late or early, and to determine at what point during the route did they become late or early and how the driver might be able to make up time. Until now, this Has been a tabular data solution, and we are connecting with our 'big data' team and demonstrate the value of a geospatial approach. Our bus supervisors are eager to know more, we have an opportunity to increase their awareness of the possibility of GIS technology.

David Brandt (Washington County): We are looking at an oblique flight coming up. In terms of road data, we're participating in the MRCC effort as well as working in Tri-Tech and with GeoComm in putting effort into getting our data assembled and cleaned up. We are working with GeoComm for mapping ability inside of our Government Center, so you can determine where you are where you are in the building complex. Another project we have going is the

sub-county level assessment of life expectancy. We are looking at smaller units of geography than that of the county, determining just how granular we can actually get; some are actually too small to work with. The state is looking at county level data and we're digging down a little deeper to see what is possible.

Erik Dahl (Environmental Quality Board): No update.

Geoff Maas (MetroGIS): I have heard the term 'damage assessment' from a number of you around the table today; I 'll just add there is a Damage Assessment group examining the potential of a data standard for damage assessment. The group had an initial conference call about two weeks ago, Cory Richter of the City of Blaine, Brad Anderson from the City of Moorhead, Todd Lusk from Dakota County, Philip Nagel from the City of Waseca and others are involved.

11) Next Coordinating Committee Meeting:
The next meeting of the Coordinating Committee is planned for Thursday, June 8, 2017;

12) Adjourn
Chair Dahl, called for a motion to adjourn; motion: Brandt, second: Kotz;
Chair Dahl adjourned the meeting at 2:52 pm;

MetroGIS Coordinating Committee: Meeting Minutes
Thursday, June 8, 2017, 1:00 – 3:30 pm
Metro Counties Government Center, 2099 University Avenue, St Paul

Meeting Minutes (Approved September 21, 2017)

Attendees:
Brad Henry, University of Minnesota
Jim Bunning, MnGeo
Norine Wilczek, MnDOT
Randy Knippel, Dakota County
Len Kne, U-Spatial
Carrie Magnuson, Ramsey Washington Metro Watershed District
Dan Tinklenberg, SRF Consulting Group
Ben Verbick, LOGIS
Alex Blenkush, Hennepin County
Curt Carlson, formerly of NorthStar MLS
Mark Kotz, Metropolitan Council
Jon Hoekenga, Metropolitan Council
Catherine Hansen, MnDNR
David Brandt, Washington County, Vice Chair of Committee

Guests:
Andra Bontrager, MCEA
Julia Shephard (intern), MCEA
Todd Graham, Metropolitan Council
Matt Schroeder, Metropolitan Council

Staff:
Geoff Maas, MetroGIS Coordinator

1) Call to Order
Vice Chair Brandt called the meeting to order at 1:05 pm.

2) Approve Meeting Agenda
Motion, Henry, Second, Kotz; no discussion, unanimously approved.

3) Approve Minutes from January 12, 2017 meeting
Motion, Kotz, Second, Kne; no discussion, unanimously approved.

4) Approval of Dan Tinklenberg to Private Sector Seat to Coordinating Committee
In February 2017, Dan Tinklenberg of SRF Consulting Group tendered a letter of request to fill the Private Sector seat vacated by David Bitner. His letter was circulated to the Coordinating Committee membership in March 2017; no comments were received on his letter from the Committee membership.

Motion, Brandt; Second, Kotz; no discussion, unanimously approved.

5) MetroGIS Representative to the Geospatial Advisory Council

MetroGIS Vice Chair David Brandt has served as MetroGIS' official representative to Geospatial Advisory Council (GAC); he also serves as the Vice Chair of the GAC. Brandt is interested in fulfilling another term as the MetroGIS representative to the GAC with the consent and approval of the Coordinating Committee.

The GAC has a specifically designated position for a MetroGIS representative, Dave Brandt has served in that position and is willing to continue. For the upcoming GAC term (2 years) no-one else applied from the Coordinating Committee or the MetroGIS collaborative. Brandt asked if there are any other candidates interested from the Coordinating Committee. Randy Knippel (Dakota County) expressed potential interest in the future but voiced his support of David Brandt continuing in the role at present.

Motion to endorse Brandt as MetroGIS representative to the GAC.
Motion: Henry, Second: Knippel - No discussion, unanimous approval;

6) Policy Board Update
Coordinator Maas provided a quick update on the Annual Policy Board meeting held on Wednesday, April 26, 2017. The meeting was well attended by Policy Board members, with presentations by Hennepin County staff on their forthcoming UI2 (Utility Infrastructure Integration) application and by Ramsey County on their forthcoming Open Data Portal. Maas provided brief updates on MetroGIS projects underway and a discussion.

Brandt: It's helpful to have GIS staff and tech people there as well, it's good we retain our connection to leadership and can keep them apprised of what we're working on.

7) Census Bureau's Local Update of Census Addresses (LUCA) Program
Todd Graham and Matt Schroeder of the Metropolitan Council's Community Development Department gave a presentation on the Census Bureau's Local Update of Census Addresses Program (LUCA). They provided an overview on the need for and uses of Census data, these being apportionment, redistricting, distribution of funds to states and provide a benchmark for the American Community Survey and other Census survey work.

Graham and Schroeder described the LUCA program, it being a voluntary geographic partnership through which governments add addresses to the Census Master Address File. The work was authorized by the Census Address List Improvement Act of 1994 (Public Law 103-430) and is vital to the goal of counting in everyone once and counting them in the right place. Participation in the LUCA is extended to the highest elected officials invited, these being generally governors, county board members, city and town officials and leadership of federally recognized tribal nations. Offices and personnel within each government agency are designated by the highest elected officials to the actual work. For the State of Minnesota, the State Demographic Center under the Department of Administration has been identified as the lead agency to conduct state-level activity. Three years before the actual decennial Census, the Census Bureau opens its address data to the local partners (this federal dataset is confidential, local agencies may not use the data for their own work). This sharing of data for a period of time is a form of semi-formal crowd sourcing and enables the Census Bureau to make use of local knowledge to improve its data sets.

Graham and Schroeder went on to describe why local government agencies might wish to participate in the LUCA program. Key reasons include the opportunity to improve the Census Bureau's Address List prior to the decennial county ensuring a more accurate count for their jurisdiction which impacts potential funding from the federal government. Additionally, it provides an opportunity for the local government to compare its data against the Census's federal address database. As part of the LUCA program the Census has prepared the Geographic Update Partnership Software (GUPS) as a resource for local users. The GUPS is a self-contained customized, stand-alone GIS package for working with Census data and specifically for working with the address data review and update as part of the LUCA work program. The GUPS includes the Census Bureaus' Address List Data, Census Bureau's TIGER geometry as well as checking and validation tools assuring the LUCA edits are valid before they are submitted. The GUPS is intended to be used by agencies that do not have their own GIS systems or software in place ans was designed with the task specific design for exclusive use for Census work.

Next steps in the LUCA process will be that the Census will be setting up training opportunities for participating governments, these will be both in person session and webinars. The Census Bureau will be asking for a turnaround time of 120 days for review and checking of the LUCA data by local agencies.

The general timeframe for the LUCA work is as follows:
Oct-Nov 2017:   LUCA participants receive training from Census geographic staff;
Feb-Apr 2018:   Census mailing out the materials to local and state agencies;
120 Review Period: Participants review an update the Census Bureau Address List
Through Sep 2018:   Census Bureau processes LUCA submissions
Aug 2019:   Feedback and summary of Census action provided to respondents

For local agencies prepping for participating in the LUCA program:

- Watch for letter from Census Bureau – arriving in July 2017
- Agencies determine who (staff/department) will be involved from their agency
- Indentify local data that can be used to validate (building permits, E911 data, structures databases)
- Confirm that your local data resources provide multi-unit structure identifiers (Apt 1, Suite 2, etc.)
- Recommended focus on area of house stock additions and changes to accurately capture the number of
- housing units.

Schroeder provided a number of specific examples where the Metropolitan Council, various municipalities and the Census Bureau either over- or under-counted the number of housing units in areas around the metro region, these tend to be in inner cities areas with multi-unit housing containing many addresses, new buildings and new subdivisions. The consequence of these discrepancies is that a given area may not be accurately enumerated in the Census which can impact re-districting and the creation of voter precincts.

Graham and Schroeder went on to explain the LUCA program emphasizes the necessity of partnership, as the Census Bureau is unable to fund or mandate local participation in the program.

Graham also stressed the usefulness and continued need for the number of units within a given parcel. When parcel data doesn't contain the number of units it can be a hindrance to accuracy for a variety of analyses and uses. He encouraged the counties to continue to add and improve the number of units on a given parcel attribute. Enhancing this attribute not only facilitates more accurate data for the LUCA review, it helps with post-Census population estimates and forecasting and to refine other datasets such as base line data for the Transportation Analysis Zone (TAX) counts for households and population. The Metropolitan Council generates estimates and data that can be used to help local agencies, which might be particularly helpful for post-Census estimates in the allocation of state funding for communities in the region and is happy to share that information with city and county partners.

Bontrager: For counts of multi-unit buildings, wouldn't that information come from the cities instead of the counties, are you reaching out to the cities for additional information?

Schroeder: On some specific projects, counties have done some aggregation of that data, however we do also just as often need to turn to the cities to gather that info. In Hennepin County for example, some cities perform their own assessments so we actually winding up having to rely on, and sometimes, to compare and use both.

Brandt: This kind of work is always a challenge at the county level, our work with cities on these kinds of data generally has a 911 focus as the primary use. In many instances, a city may not know what it has for data either, so both city and county staff have to do a fair amount of work to pull it together. For determining what's happening on a site or a given location, we will often take number of units from the assessor's data, and then work with police or the fire department to determine the linkage to the addresses in place.

Carlson: We know that the Census and other agencies have some challenges in correctly pulling together enumerations in apartment buildings, do you find that to be the most challenging part of this?

Schroeder: Multi-unit housing are one of the biggest challenges, this shows up in other analyses that we perform as well. How Commerce Dept. receives data from city is a challenge, as Commercial vs. Residential, can impact, MetCouncil will often look at how to reclassify the data.

Carlson: Is there any consideration for seasonal/recreational use dwelling units. Likely not as much a factor in the metro, but elsewhere in Greater Minnesota this is a large portion of housing in some jurisdiction.

Brandt: In Washington at least, we are able to track this with the homestead vs. non-homestead category at the parcel level, we have a fair number of absentee or non-homestead owners which fall into this.

Schroeder: We are aware of the seasonal use dwellings, but they form a relatively small portion of the metro housing picture as a whole.

Carlson: The Census is supposed to be a snap shot in time, what is the actual enumeration date in 2020?

Schroeder: The enumeration date for the next Census is Wednesday, April 1, 2020

Carlson: How are vacant units numerated? For example, housing units that are for sale or rental units that are not occupied on or around the enumeration date?

Graham: The Census Bureau is admittedly trying to do less 'on foot' and 'on the ground enumeration than in years past so properties for sale that are not occupied may not fully be captures, however in multi-unit examples, whey will work with property managers to verify if a unit is not occupied.

Blenkush: Are there any best practices for creating and maintaining this data than can help researcher and data creators?

Schroeder: We don't know of one that exists, it would certainly be helpful. We could potentially put something together that uses our process, which includes building permits by block with a list of estimates.

Brandt: I suspect this would be a good discussion for the county managers meeting (Eight County Collaborative/MetroGIS Data Producers Work Group). One of the other things you mentioned, if a county wasn't able to participate in LUCA, that the Council might be able to assist the county, what type of work that you can provide to assist us?

Graham: We have discussed this a little bit, some our leadership was skeptical, but we could assist on a fee for service basis if a county didn't have the resources to engage it on their own.

Knippel: We are aware the Council has a vested interest in this, it might be something we could do through informal channels of data sharing and working together rather than having to deal with a more formal process.

Brandt: From the GIS side, we could certainly work on this informally, that would be worth more formal discussion.

Knippel: I will add this to the agenda of the county managers meeting (to be held on June 14th), and we can check in on that and gauge the interest in working with the Council and develop a process

Verbick: I am interested on how the work flow comes together; at some point there will be cities who will be participate with their unique process (LUCA process) will that data then be delivered to county for aggregation?

Brandt: This depends on the agreement between the cities and county. In Washington County, we have agreed to work with and aggregate data for our cities.

Graham: It appears that the Census wants to see both data from the county and city levels; the Census gives itself a year to sort through what it receives.

Blenkush: While this was before my time with Hennepin County, we first started with working with LUCA ten years ago; Hennepin County we assisted 18 cities with their lists, the remaining 28 or so cities worked independently. We will still offer services to the cities in Hennepin County to cities that desire it.

8) Single Parcel Polygon Layer Proposal

Mark Kotz of the Metropolitan Council proposed a small project idea for a metro-wide parcel polygon layer. The goal of the proposal would be to create and maintain a single parcel polygon layer and service for the seven-county area. No edge matching would be performed. The layer would simply be the result of appending all seven county parcel layers together. Work would be done by Metropolitan Council staff. The goal is to have a single parcel layer for the seven-county area that could be added to maps and applications without having to manage seven different layers. This dataset is not intended to replace, but to be offered in addition to the seven currently available MetroGIS parcel datasets. The business need for this project is that many applications that require parcels require more than one county. Metro regional applications usually require all seven counties. Service, map and application development and maintenance would be easier and more efficient when accessing one layer rather than seven. A successful deployment of the project would be a data layer containing parcel polygons from all seven metropolitan counties merged together. This data layer would be available as a web service and as a download on the Geospatial Commons;

Kotz: As this would be something the Coordinating Committee would be supporting we wanted to check in with the counties and the Committee before formally moving forward on this.

Knippel: Don't think we need to agree formally, the data is out there, so I'd say feel free to go ahead with it.

Motion to support development of a regional aggregated parcel data services:
Motion, Brandt; Second: Knippel – no discussion, unanimous decision for approval.

9) Standards Development Update

Maas provided a brief overview of the recent developments in, and status of, geodata standards in Minnesota. Maas became the chair of the GAC Standards Committee in April 2016. He described the status of the following standards:

NextGen9-1-1 Data Standards. The NextGen9-1-1 effort has published its third iteration of its proposed data standard out for stakeholder review. The review period ended on June 2nd with comments being collected and applied to their materials as needed.

Parcel Data Transfer Standard. This standard was built upon the original Metro Parcel Data Standards and was published for formal review from October 2016 through January 2017. Two documents of all the comments received (Comment Document) and the alignment of those comments to the attributes (Alignment Document) were published in March 2017 and two in-person sessions (Duluth, March 13 and Fergus Falls, April 5) were held on the content and next steps for the parcel standard. The Parcel and Land Records Committee has agreed to hold on advancing the parcel data standard until the state address point standard has been advanced for approval as the parcel standard contains address attribution and it is desirable to have these elements align across the standards.

Key decisions remaining to be made on the Parcel Data Transfer Standard include:
- Which attributes are to remain and what order they are in
- Inclusion of the address attributes from the Address Point Standard

Address Point Standard. This standard is being proposed by the Metro Address Workgroup as a candidate for a statewide address point standard. This standard has its origin with the Metro Address Point Standards that was originally developed in 2004 and eventually adopted and put into use in 2010. The metro standards was modified in 2015, and more substantially modified again in 2016 to more closely align with, and satisfy, the needs of the 911 stakeholders.

Damage Assessment Data Standard. This standard remains in preparation by the Emergency Preparedness Committee with the involvement of several counties, cities and state agencies. The standard is being assembled with info from the application developed by WSB, the ESRI Data model, the Dakota County specification and information from the Department of Homeland Security.

The Standards Committee will convene on June 21 to work through the following:

- Review and decision on the fitness of the proposed Address Point Standard
- Handing back the Parcel Data Transfer Standard to the Parcel and Land Records Committee for their determination of next steps.
- Revision and review of the standards development process by the Committee.

This meeting is open to the public and Maas encouraged interested stakeholders to participate if they were interested.

10) Current MetroGIS Work Plan Projects – Brief Updates

10.1) Support for the Geospatial Commons
The Commons presently has 28 organizations providing a total of 667 resources.

10.2) Free + Open Public Geospatial Data Initiative
As of June 2017, there are 25 total counties with free and open data, 12 of which have adopted a resolution at the county board level. Of note, Otter Tail County has been making its data available since 2009 and is moving to adopt a formal resolution at the board level sometime in 2017 according to GIS Coordinator George Meyer.

Maas indicated that a new version of the 'Free + Open Public Geospatial Data in Minnesota: A Guide for Practitioners' white paper (known within the MetroGIS Community as "White Paper II") is available (Version 6.0, April 2017) and will be continually updated as new questions are received, researched and answered.

Upcoming outreach regarding free and open data include Maas making presentations to the Southeastern Minnesota GIS User Group on June 20 in Red Wing and to the South-Central Minnesota GIS User Group on June 22 in Mankato. Additionally, on behalf of the GAC Outreach Committee, Maas has tendered an abstract to present on the topic to the Association of Minnesota Counties annual conference in St. Cloud in December.

10.3) Address Points Aggregation

Maas described this work item as having three component parts, these being:

Address Point Aggregation; this takes place twice per year. The Metropolitan Council aggregates the address points prepared by cities and aggregated by the counties in April and again in October and publishes them as a regional dataset.

Address Point Standard; At present the Metro Address Point Standard is in use for the regional dataset. This standard, modified in August 2016 to align with 911 needs and attribution is being advanced to the Standards Committee as a candidate for the statewide address point standards on June 21.

Address Point Editor Tool; the most recent version of the tool (Version 3.0) was deployed in March 2015. Many users have identified a number of issues and desired improvements for the tool and its potential need for a refresh.

Randy Knippel (Dakota County) provided a short presentation on the benefits of potentially moving toward ESRI's Web App Builder (WAB) for a regional address point tool solution, citing potential enhancements including:

- Enhanced mobile compatibility
- Cross-browser compatibility
- Better user management
- More export options
- More print options
- Better future stability
- Better code management / extensibility

Knippel cited the ease in which custom widgets could be created and shared and how all the widgets are available as source code and proposed the proposed the following for advancing the next generation of the Editor Tool:
- No further development of current address point editor
- The current editor tool has served an important role, but it is at the end of it life cycle.
- Identify current capabilities beyond standard WAB widgets
- Repackage existing code as custom WAB widgets
- Create an address point editor with WAB

Knippel proposed the next steps for the development of an Address Editor Tool:

- Direct the Metro Address Work group and Metro Address Editor Tool sub-group to explore and endorse migrating to WAB;
- Identify unique capabilities needed to extend WAB;
- Consult with North Point Geographics on feasibility of repacking existing modules;
- Develop and execute a work plan;

Kotz: Overall an excellent proposal, we can convene the Address Editor Tool work group to begin reviewing and working on this. I will have Tanya Mayer in our GIS group begin the communications on that. One key point is the fact that in our current agreement, North Point owns the code for the tool, we can edit it for our own use and it can be distributed among governments in Minnesota, but we may not be able to re-purpose it in the way you propose. We will examine what our options are.

10.4) Metro Regional Centerlines Collaborative

The first version of the MRCC road centerline dataset is available on the Commons, it was published on April 21st. It contains over 164,000 road segments representing over 19,000 miles of road and represents the result of three years of work by the MRCC group. The counties have requested the Metropolitan Council to develop an aggregation and validation solution. The Council is working with its GIS staff and key staff at MnGeo to develop a staging and ingest workflow to collect the data. The goal will be for monthly updates of the dataset once this portal is developed and active. This effort will move into maintenance mode with the potential for other counties, including Isanti, Chisago and possibly Olmsted County also participating.

10.5) Park and Trail Dataset and Data Standard

The metro partners have been developing a metro-wide park and trail dataset and data specification since fall 2016. On Mya 31, the first proto-type version of the data with some initial attribution was assembled by Alex Blenkush at Hennepin County as is available on the project BaseCamp site. This initial dataset will serve as the springboard and discussion point for the next steps and which attributes to populate in subsequent builds of the dataset.

10.6) Statewide Centerlines Initiative

This effort has 'morphed' into the NextGen9-1-1 effort, this effort has published its third iteration of its proposed data standard out for stakeholder review. The review period ended on June 2nd with comments being collected and applied to their materials as needed.

10.7) Metro Regional Stormwater Dataset – On-Going Requirements Gathering and Research

This effort remains a research and information gathering effort at this time. Maas and Magnuson have been working on an outline of a plan to move the project forward into more specific actions. Maas proposed two key actions to be taken in calendar 2017, these are the preparation of a sample data set for public use and review in the Draft Stormwater Exchange Standard (including portions of two cities in the metro region) and a Business Needs session (half-day session) in late October. More details on these proposed actions will follow in later meetings.

10.8) MetroPlus Free Geocoder

This was proposed in late 2016 by Curt Carlson, he convened two conference calls with interested members of the geospatial community on documenting the business needs for a geocoding tool and how to get it going. The Metropolitan Council has shared its composite locator services with those who wanted to use them, most of the users have their needs met with metro-level tools available, however there remains interest for the development of an eventual state level tool.

10.9) Method for proposing new projects to MetroGIS

Maas reminded the group that project submittals for next year's Work Planning cycle are encouraged to be submitted by August 30th. These will be included in the next prioritization exercise at the September meeting. Project templates are found at *metrogis.org > Projects > Project Templates.*

11) Lightning Round Update
Meeting attendees are encouraged to share any updates or work relevant to their agency or interests.

Bunning (MnGeo): As was shown in the earlier slide, the Minnesota Geospatial Commons is now up to 667 resources from 28 contributing agencies. Focus on the development of the NExtGEn9-1-1 project remains a priority for MnGeo.

Wilczek (MnDOT): No update.

Knippel (Dakota County): Dakota County worked with Pictometry this spring to acquire imagery, there were some issues with the capture, still in the process of working those out.

Kne (U-Spatial): No major updates, working with the GAC Outreach Committee to have a survey ready for the cities in Minnesota on the status and availability of their data.

Bontrager (MCEA): I'm the GIS Specialist with MCEA, I'm interested in joining the group, filling in the vacant non-profit seat interested in joining, I'm joined today by Julia Shepherd, she is interning with MCEA this summer and is a student at Colorado College.

Magnuson (Ramsey Washington Metro Watershed District): No major updates, Geoff and I are still pulling together a plan for the stormwater effort.

Tinklenberg (SRF Consulting Group): Thanks for the opportunity to join the group, no updates at this time.

Verbick (LOGIS): No updates.

Blenkush (Hennepin County): Hennepin County has started publishing to the Commons, this includes just a couple of application resources at this time. We are exploring the possibility of more publishing in the future. We are planning on acquiring imagery in 2018, we are preparing our Request for Proposals for a spring flight.

Carlson (formerly of NorthStar MLS): As some of you may have heard, I have been laid off from NorthStar MLS, they have closed the business that I worked directly for. I am performing some of my own analysis on real estate sales and am 'on the market'.

Kotz (Metropolitan Council): No updates.

Hoekenga (Metropolitan Council): No updates.

Hansen (MnDNR): I'm here on behalf of Hal Watson, the DNR assisting MnGeo with assembling and standardizing parcel data. We are having a busy training season, we are in the process of developing applications for Collector, performing lots of work in the field linking photos to points and sites.

Brandt (Washington County): The county was working with Pictometry this spring, important to have that imagery for the new bridge across the St. Croix River. We are planning for a grand opening event of the bridge in the near future. We have received a grant through the MDPS and MESB to do develop 911 address points in Washington County; we are excited to get that going at long last.

12) Next Coordinating Committee Meeting:
The next Coordinating Committee Meeting is scheduled for Thursday, September 21, 2017.

13) Adjourn
Vice Chair Brandt adjourned the meeting at 3:28 pm

MetroGIS Coordinating Committee: Meeting Agenda
Thursday, September 21, 2017: 1:00 – 3:30 pm
Metro Counties Government Center, 2099 University Avenue, St Paul

Meeting Minutes (Minutes approved March 1, 2018)

Attendees:
Matt Baker, Metropolitan Airports Commission
David Brandt, Washington County, Vice Chair
Erik Dahl, Environmental Quality Board, Chair
Chad Riley, Carver County
Andra Bontrager, MCEA
Mark Kotz, Metropolitan Council
Curt Carlson, Independent Contractor
Carrie Magnuson, Ramsey Washington Metro Watershed District
Jared Haas, City of Shoreview
Jeff Matson, CURA-University of Minnesota
Dan Tinklenberg, SRF Consulting Group, Inc.
Dan Ross, MnGeo
Alex Blenkush, Hennepin County
Ben Verbick, LOGIS
Norine Wilczek, MnDOT
Joe Sapletal, Dakota County

Guests:
Jessica Nelson, Minnesota State University at Mankato

Staff:
Geoff Maas, MetroGIS Coordinator

1) Call to Order
Chair Dahl called the meeting to order at 1:05 PM

2) Approval of Meeting Agenda
Motion to approve: Verbick, Second, Brandt
Vote: unanimous approval, motion carried

3) Approval of Meeting Minutes from June 8, 2017
Motion to approve: Kotz, Second, Brandt
Vote: unanimous approval, motion carried

4) Andra Bontrager to Non-Profit Seat to MetroGIS Coordinating Committee
On June 19, 2017, Ms. Bontrager, GIS Specialist at MCEA, tendered a letter of request to fill the Non-Profit Seat that has been vacant for some time. This letter was circulated to membership in July 2017, no comments were received on her request to join.

Motion to approve Bontrager's membership: Brandt, Second: Kotz,
Vote: unanimous approval, motion carried.

The group welcomed Ms. Bontrager to the Committee and looks forward to her participation and contributions.

5) Policy Board Update
Maas reminded the group that next Policy Board meeting is scheduled for Wednesday, April 25, 2018. At present, two Metro Cities seats remain vacant, Maas tendered a request to the Metro Cities organization for them to select tow members to represent their interest. Maas also indicated that the annual Policy Board meeting is an ideal setting for technical and managerial staff from the metro region to present to the collective leadership and to contact him if they wish to plan a formal presentation for next year's meeting.

6) Regional Parcel Data Service
Maas and Kotz updated the group on the Regional Parcel Data Service development. The Metropolitan Council has developed a parcel service for its internal use to be consumed by MetCouncil applications. Once the Council has completed its SQL Server updates, updates to Version 10.5.1 of ArcGIS and other hardware updates, it will be able to make the service available to the public. The service uses the Regional Parcel Dataset that is collected quarterly. Matt McGuire of the Metropolitan Council GIS office will be the primary contact for the Regional Parcel Data Service.

7) Standards Development Update
Maas, who is also the chair of the Standards Committee, updated the group on the various standards under review and in development in the state. The Address Point Standard was approved for a public stakeholder review by the Standards Committee on June 21, 2017. This standard represents a fusion of the NextGen9-1-1 and Metro Address point standards. The 60-day review period began on July 24, 2017 and is set to end on September 22, 2017. A significant outreach effort was undertaken by the Standards Committee, reaching out to county and city GIS managers and staff statewide, ES-PSAP-911 interests, watershed district contacts, regional, state, tribal and federal government interests as well as the League of Minnesota Cities contacts and the Minnesota Clerks and Fiscal Officers Association. The League of Minnesota Cities additionally offered to post a notice with links to the Address Standard materials on it notices and announcements website.

The Parcel Data Transfer Standard was put on 'hold' for any further advancement by the Parcel and Land Records Committee. The parcel standard had a public review period from Oct 2016 to Jan 2017, with publication of input received in February of 2017. The Parcel and Land Records Committee made the decision to 'freeze' advancement of the standard until the Address Point Standard had been reviewed and adopted.

In terms of working toward an eventual statewide road centerline standard, there remains a strong potential for the two current projects; the MRCC and the NextGen9-1-1 effort to merge or support one or the other as a potential standard candidate;

Two other standards are also in the works, the Disaster Assessment Standard and hDEM standard. For the Disaster Assessment Standard, a work team under the GAC Emergency Preparedness Committee is reviewing existing standards and developing one that blends their strongest elements as a potential

candidate. Cory Richter (City of Blaine), Todd Lusk (Dakota County), Brad Anderson (City of Moorhead) and Philip Nagel (City of Waseca) are the core of that work team. The hDEM Standard effort, led by Sean Vaughn of the DNR needs more internal DNR review and the support of the 3D Geomatics Committee. This standard involves specifications for digital terrain development practices for hydro-modified DEM and derived hydrological data.

The next GAC Standards Committee Meeting is scheduled for October 25, 2017, 1 pm, where the committee will review and decide upon the Address Point Standard. If you are interested in the status or development of standards, please contact the chair Geoff) or vice chair (Andra) or any of work groups and committees working on the standards.

8) Current Work Plan Projects Updates

8.1) Support for the Geospatial Commons
As of September 21, 2017, the Geospatial Commons held 696 resources from 29 different agencies. Dan Ross indicated that the new re-branding of the Commons is to be launched on September 28.

8.2) Free + Open Public Geospatial Data Initiative
As of September 22, there are twenty-five counties in Minnesota with open data, with another six in the review and consideration phase.

8.3) Address Point Aggregation
At present, the Regional Address Point dataset is collected twice per year (April and October) by the Metropolitan Council and published as a regional dataset on the Commons. To date, five of the seven metro counties are contributing data, with Anoka and Washington Counties still developing their data. The advance of regional data hosting—developed initially for the MRCC, but anticipated to take in other data as well—plus the plans to develop a new Address Editor Tool serve to advance the activities around address point development and aggregation.

8.4) Metro Regional Centerlines Collaborative.
Regional partners continue to refine the dataset and data standard. An interim, Version 1.6 of the data standard has been developed (removing theoretical address ranges and adding new values to existing domains) is planned to be published to the Commons on September 27, and the MRCC Build Team (technical team) is convening for a three-hour in-person work session on September 28 to review and approve modifications to the standard and resolve outstanding coincident geometry issues.

8.5) Park and Trail Dataset and Data Standard
The Park and Trail Build Team, led by Alex Blenkush of Hennepin County, continue to work toward the refinement of Version 1.1 of the data standard. Key points of discussion include refining the 'stock' Unique ID from the NRPA standard to create something that is most useful to the metro partners for relational database work. The Build Team is set to have their quarterly conference call on Thursday, October 11 to confirm details and next steps for the project. Adoption of Version 1.1 by the project Core Team will inform the next phase of the data build. Once sufficient attribution has been added, there is consensus amongst project leadership to publish the dataset publicly on the Geospatial Commons.

8.6) Statewide Centerlines Initiative
The NextGen9-1-1 centerlines effort continued to review and refine its standard with its statewide partners and significant communications between the 911 effort and MRCC effort continue. The upcoming September 28 meeting of the MRCC Built Team anticipates the discussion of closer alignment

with 911 attribution. It is anticipated that hybrid of the MRCC and 911 centerlines could be within reach and be a candidate for a statewide centerline standard.

8.7) Metro Regional Stormwater Dataset
The project to date has remained in research/info gathering mode, however, recent developments within Hennepin County—a strong business advanced by the Hennepin County Regional Rail Authority—indicates potential for new momentum. Gary Swenson has invited the metro stormwater co-coordinators Maas and Magnuson to prepare a memo of the regional projects intent and how the county and regional efforts may be able to potentially join forces. Maas anticipates setting up a 'stormwater data summit' during the winter to document additional business needs and develop a steering team to drive a regional effort for how to advance a data standard and potentially a dataset. Maas will assemble a draft memo later in October to the Hennepin County GIS office be get that process rolling. Agencies, especially private engineering firms, continue to contact Maas with interest in the topic. Should a summit be put on the calendar, a strong turnout is anticipated.

8.8) MetroPlus Free Geocoder
No new action by the work team has taken place since the last meeting. The Metropolitan Council has made its geocoder resources available, however, this resource is limited to the metro-region. A business need for a freely available statewide geocoder resource remains.

9) New MetroGIS Project Proposals for 2018 Work Plan
Two new project proposals have been submitted for review by the Committee for its 2018 work planning cycle.

9.1) Metro Address Editor Tool (Web App Builder). This project was proposed by Metro Address Work Group in response to the gaps in functionality of the previous Address Editor Tools. The last version of the Address Points Editor tool was released in early 2015. This project is to complete an Address Points Editor Upgrade. This includes assessing the status of the current tool, revisit the ideas for improvements of the current tool since the last version was released, and migrate the tool functionality using the WebApp Builder (WAB).

The goal of the project is to develop a new tool to replace the current Address Points Editor Tool, to explore and endorse migrating to WAB Determine the functions that will be in scope for a new WAB tool Identify unique capabilities needed to extend WAB Identify functionality that Project Team Members can develop in WAB Consult with North Point on feasibility of repackaging existing modules as WAB widgets Develop and execute a work plan Ensure the resulting application to be freely sharable – not restricted to just MN government What general purpose or business need is being fulfilled by this project? Upgrade the application to currently supported software and expanding the capabilities to field users by adopting a framework that supports operations on a variety of devices (mobile and desktop). What does success 'look like' for this project? Resulting editing tool will be functional, use new technology, meet the needs of stakeholders, and be used in their business processes.

Dakota County staff have offered to serve as leadership for the effort assisted by the Metropolitan Council and with the contribution of the following anticipated project team members:

- Jacqueline Kovarik, Carver County
- Todd Lusk, Dakota County
- Joe Sapletal, Dakota County

- Jessica Fendos, Ramsey County
- Jason Allen, Scott County
- Tony Monsour (back-up) Scott County
- Doug Matzek, Washington County
- Tanya Mayer, Metropolitan Council
- Mark Kotz, Metropolitan Council
- Dan Ross, MnGeo

MetroGIS has offered to make funding available from its 2018 budget to support the project; anticipated to be less than $25,000.

9.2) Addressing Resource Guide. This project was proposed by Geoff Maas, the aim of this proposed effort is simply the aggregation, compilation and editing of relevant addressing research to assist non-geospatial professionals better understand best practices and processes for assigning addresses. In recent discussions with League of Minnesota Cities CIO Melissa Reader, Maas indicated that Reader mentioned that one of the most frequent requests for help received by the League is by city staff (clerks, etc.) who would like more and better information on how to best assign addresses. Maas has volunteered to perform the majority of the compilation work and is asking for the Committee's approval to include it on the 2018 Work Plan and for the editorial review by the Metro Address Work Group and other interested members as they wish.

Maas indicated he would be making use of the deep expertise of skilled individuals like Cory Richter of the City of Blaine who, during her tenure at St. Paul, was instrumental in getting their addressing documentation compiled and edited.

10) Work Plan Prioritization in 2018. Mark Kotz led the group in the annual prioritization exercise for ranking project priorities for the 2018 work planning cycle. Kotz explained the process for prioritizing projects with inclusion of the weighted success score, inclusion of the survey results, value scores and 'likelihood or success' considerations to develop the final ranking. Conducting the prioritization helps give the Committee a consistent, mutually agreed-upon ranking of projects for work, it helps set the work plan and focus for the MetroGIS Coordinator's work plan and documents MetroGIS' list of priorities against those of other groups to determine where shared effort can be maximized.

Based upon the input of the group, the ranking of projects for 2018 is as follows:

Priority 1:   Address Point Aggregation (Active)
Priority 2:   Updated Metro Address Editor Tool (New Project, Active)
Priority 3:   Addressing Resource Guide (New Project, Active)
Priority 4:   Metro Regional Centerlines Collaborative (Active)
Priority 5:   Metro Park and Trail Dataset/Data Standard (Active)
Priority 6:   Regional Stormwater Dataset "StormFlow" (Initiation in 2018)
Priority 7:   Free + Open Public Geospatial Data (On-Going/Maintenance)
Priority 8:   Support for the Geospatial Commons (On-Going/Maintenance)
Priority 9:   Statewide Centerlines Initiative (Active) – Tied to forthcoming standards

Three projects remain on the project list, but were not added to the active work plan for the 2018 work cycle, these include:

MetroPlus Free Geocoder
Increased Parcel Update Frequency
Create Regional Basemap Services

Maas will prepare the Draft 2018 Work Plan with the new project priority rankings for Committee review and approval at the December Coordinating Committee meeting.

11) Lightning Round Update. Lightning round updates from participating members on the progress, activities and new projects being undertaken in their various agencies;

Andra Bontrager (MCEA) – No updates

Carrie Magnuson (Ramsey Washington Metro Watershed District) – no updates

Norine Wilczek (MNDOT) – No updates

Jeff Matson (CURA) – No new major projects to report on, however, with school back in session we will have student workers available for internships and projects, please contact me if you have a need for student help on projects.

Jessica Nelson (Minnesota State University-Mankato) – The Southeastern Minnesota and South-Central Minnesota GIS User Groups will be having a joint meeting in Owatonna on October 26, it will be from 8:30 a.m. to noon, with a lunch offered and a tour of the Owatonna Public Works facility.

Chad Riley (Carver County) – Carver County continues to work on its open data portal. Over the last couple of months, we have redesigned it and are looking at other potential data to start pushing out; we have been using Ramsey County and City of St. Paul as an example, looking at what they are doing, and thinking about a new strategy for what to put out there and are examining the potential to participate more directly with the Geospatial Commons. We are also working more extensively with WebApp Builder, Jackie (Kovarik) and Craig (Prisland) in our office are working with it and will be presenting on it at the Conference.

Matt Baker (Metro Airports Commission) – The MAC continues to develop its enterprise GIS system; our goal is to have the work completed prior to the Super Bowl. We are incorporating everything from wayfinding in the airports to considerations or public safety, it is a large project, but we continue to move on it.

Vic Barnett (Metro Emergency Services Board). We continue to work to synchronize the data used for the regional E911 system with the incoming county GIS data; our current phase of the project is nearing completion; the metro counties are at or near a 1% difference in their data sets; we are seeing really good quality. We want to find ways to encourage and maintain this over the longer term, the more we all learn about the needs the further we will be along for future work. Automation of the data

aggregation process is part of the MESB's strategic planning, we need to communicate more with the GIS managers around the metro and get their thoughts on how to do that.

Jared Haas (City of Shoreview) – no updates

Dan Tinklenberg (SRF Consulting Group) – At SRF, we are re-building our internal ArcGIS server, we will be looking for interns as well for GIS assistance. One thing I have noticed and appreciate are the large numbers of the rural counties in Minnesota which have more and more open data available. From the private sector perspective, it has never been easier to get geospatial data from government partners.

Curt Carlson (Independent Contractor) – I have been working independently and doing some contract work for Ramsey County. My independent work is focused on GIS real estate sales information; I have five clients signed up for weekly reports of sales.

Alex Blenkush (Hennepin County) – Hennepin County has as large number of projects in the works, we are busy managing the metro park and trails effort, our UI2 application (a custom mapping application for local and utility company to enter project locations in to streamline collaboration progress) is going well we have about 20 users. We have used a similar approach for a new application released adopt a highway project, custom application for county roads helps volunteers see which roads are up for adoption, and interested groups can sign up through a custom application. The county is also in the process of selecting a vendor for its 2018 flight; vendor demos are complete and the review team will be making a selection before the end of calendar 2017.

Mark Kotz (Metropolitan Council) – We are beginning a significant upgrade of our GIS environment, we have been working on the SDE database with SQL Server 2008 for a long time and this has unfortunately limited our ability to perform ArcGIS upgrades prevented ArcGIS upgrades. We are finally upgrading the SQL Server which will enable us to upgrade to ArcGIS 10.5.1. If you use our map services, we will be putting them onto a new system where there will be once service per server, whereas now we have 20 or 30 lumped together on one server. We look forward to having that updated.

Dan Ross (MnGeo) – The newest work at the state is our park and trail effort, which we look to roll out in November, it is a bit different than the metro effort, we are working toward an application that enables users to search by recreational activity and drill down to the local level and use the local or county website to find the resource they want.

Joe Sapletal (Dakota County) – As mentioned, I'm chairing the Address Editor Work Group, we are looking forward to getting that effort moving. Earlier this week, we selected a vendor for our fall flight for aerial photography, we anticipate getting that data later in the year. IF you are at the conference, I recommend you go see Randy's presentation on drones, we have had a pilot project with our highway department and team sheriff's department, we are seeing the potential for using drones for emergency preparedness work and for damage assessment as well.

Geoff Maas (MetroGIS) – No updates, other than I hope as many of you as possible will be attending the GIS/LIS Conference this year in Bemidji, it looks to be a good one. The Conference Committee has put a lot of work in and is anticipating a solid turn out.

David Brandt (Washington County) – We are deep into the Comprehensive Planning process at the county as well as our development of address points, we have a special project person on board through Feb 2018 to assist with that. We have gone through all our multi-tenant parcels in preparation for

Census and LUCA and we have contracted with Pictometry to do our building footprints, structural locations, working with them through mid-October. I sat in on the request-for-proposals session hosted by Hennepin County for oblique imagery; we got to review demos of the process; there were lots of good questions from the vendors that presenting, it's clear that the technology and availability of oblique imagery is coming a long way from where it was in recent years.

Erik Dahl (Environmental Quality Board) – no updates;

12) Next Coordinating Committee Meeting:
Thursday, June 6, 2017
Metro County Government Center
2099 University Avenue
St. Paul, Minnesota 55104

13) Adjournment
Chair Dahl adjourned the meeting at 3:20 pm