**MetroGIS Coordinating Committee: Meeting Minutes**
Thursday, October 13, 2016, 1:00 pm – 3:30 pm
Metro Counties Government Center, 2099 University Avenue, St Paul
Draft (Pending Approval on May 4, 2017)

**In Attendance:**

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

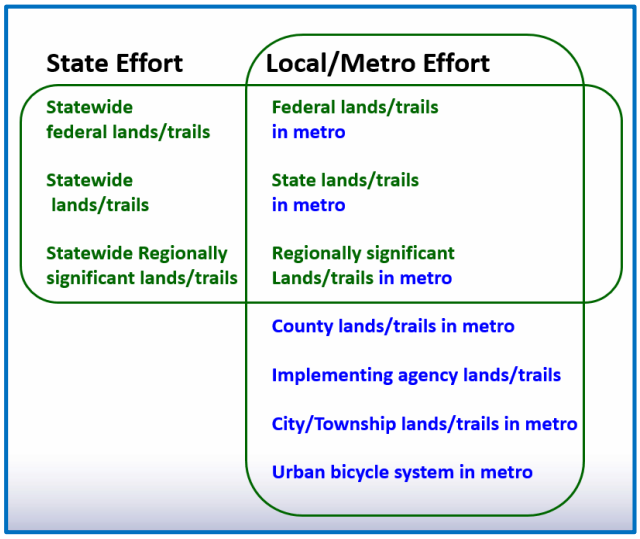
The MRCC Group continues to develop the first version of the MRCC road centerline dataset. The Second Build of the data was completed on September 30, 2016. Hennepin County and the Metropolitan Council have developed an interim aggregation/semi-manual validation routine for collecting the data and running 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.

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 grouon 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 schedule to arrive. On the website or the NexTrip 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, May 4, 2017.

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