MetroGIS Policy Board Meeting Minutes [Draft]
Thursday, October 23, 2014, 6:00 pm – 8:00 pm
Metropolitan County Government Center
2099 University Avenue, St. Paul, MN

Board Members Present:
Terry Schneider, Metro Cities/ City of Minnetonka, Policy Board Chair
Debbie Goettel, Metro Cities/City of Richfield
Mary Texer, Capitol Region Watershed District
Steve Elkins, Metropolitan Council
Victoria Reinhardt, Ramsey County Commissioner
Mjyke Nelson, Washington County, Director of Information Technology
Chris Gerlach, Dakota County Commissioner
Pete Henschel, Carver County GIS Manager (Alternate for R. Maluchnik)

Board Members Absent:
Jim Kordiak, Anoka County
Randy Maluchnik, Vice Chair, Carver County
Dave Menden, Scott County
Randy Johnson, Hennepin County

Present:
Dave Hinrichs, Metropolitan Council Chief Information Officer
Mark Kotz, Metropolitan Council, Coordinating Committee Member
Randy Knippel, Dakota County GIS Manager, Coordinating Committee Member
Erik Dahl, Environmental Quality Board, Coordinating Committee Chair
David Brandt, Washington County, Vice-Chair MetroGIS Coordinating Committee
Matt Koukol, Ramsey County GIS Manager, Coordinating Committee Member
Dan Ross, State GIO, MnGeo, Coordinating Committee Member
Nancy Read, Metropolitan Mosquito Control Board, Coordinating Committee Member
Curt Carlson, Northstar MLS, MetroGIS Coordinating Member

Staff:
Geoff Maas, MetroGIS Coordinator

1) Call to Order
Chair Schneider called the meeting to order at 6:15 PM

2) Approval of Meeting Agenda
Chair Schneider called for a motion to approve the meeting agenda
Motion: Texer, Second: Reinhardt, motion carried
3) Approve Meeting Summary from 10/23/2013
Chair Schneider called for a motion to approve the minutes from the last meeting (10/23/2013)
Motion: Texer, Second: Reinhardt, motion carried

4) Confirmation of Change of Practice regarding Policy Board Operation

Chair Schneider reaffirmed the changing nature of the MetroGIS collaborative and the need for the Policy Board to respond to this change. He directed Coordinator Maas to summarize the points of recommended modification from prior discussions for the group, these included:

- The MetroGIS Policy Board is to continue operation as the policy body for the MetroGIS collaborative and to formally convene once per calendar year;

- The Policy Board will hold its annual meeting each April beginning in calendar year 2015. Holding the annual meeting in April provides ample time for review by the Board of any relevant actions or proposals anticipated in upcoming Legislative sessions;

- The Coordinating Committee can request that the Policy Board convene if there are items of significant fiscal or political import requiring policy-maker level attention, decision-making and support.

- The Policy Board can be called to convene at other times than the annual meeting with a 30-day notice to members. Any meeting dates desired outside of the annual meeting will be as near as possible to the usual established dates of the original quarterly schedule.

- Quarterly report briefs to the Policy Board members from the MetroGIS Coordinator on the activities and projects of the stakeholder community—in lieu of formally scheduled quarterly meetings—are to continue and will serve as a primary means of updating the Policy Board between the annual April meetings.

- The next scheduled Annual Meeting would convene on Thursday, April 30, 2015 at the Metropolitan Counties Government Center, 2099 University Avenue, St Paul, Minnesota.

Chair Schneider made a further recommendation that future meeting times be pushed to 7 pm and asked for a motion to approve the statements defining the change in operation.

Motion: Reinhardt, Second: Texer, motion carried. Chair Schneider directed Coordinator Maas to add these formal revisions to the language of the MetroGIS Operational Guidelines and Procedures.
Agenda Item 5) MetroGIS Project Updates

Members of the Coordinating Committee and MetroGIS staff provided updates on the progress of the numerous MetroGIS projects presently underway.

5a) Free and Open Data Update and Summary

Randy Knippel (MetroGIS Data Producer Work Group Chair) provided an update on the current status and progress of the adoption of open data policies by counties in the metro and in Greater Minnesota. These included the adoption of formal open data policies in spring 2014 by Ramsey, Hennepin, Dakota, Carver and Anoka Counties, the consideration of policies by Washington and Scott Counties and the potential of counties in Greater Minnesota such as Stearns and Clay Counties working toward policy adoption.

Knippel went on to describe the benefits being realized by county staff with the change such as the elimination of the burden of administering licenses and fee transactions for marginal benefit and eliminating the need to implement onerous security measures. Knippel stated that the counties are well positioned to leverage the benefits of the Minnesota Geospatial Commons and at the present counties with open data have begun to pursue publishing their data through individual portals.

Knippel summarized the metro open data effort as a successful collaborative project and next steps include building an awareness of the availability of the data and promoting the use of that data. One event to meet that aim is the upcoming Hennepin County ‘code-a-thon’ called Hennepin Geo:Code which will partner Open Twin Cities, Code For America and eDemocracy.org and the ‘civic technologist’ community of the Twin Cities. In the language describing the event as the desire to create technology solutions that “… improve county services, give residents greater access to government data and make a difference …”

Among the benefits of the open data is the ability for the public to use the data in innovative ways; open data leverages creativity for applications development which saves the county from having to anticipate every need and try to develop applications for it. Knippel described that this is a new frontier for us in Minnesota, that open data has opened new doors of possibility for making use of the data.

Coordinator Maas described the opportunity he had in September to present nationally on the topic at NSGIC (National States Geographic Information Council) at their annual conference in Charleston, South Carolina, co-presenting with New York GIO William Johnson. The topic was well received and Minnesota is seen as a strong test case example for the benefits of open geospatial data.

Mayor Goettel noted that we should work to benchmark other cities that are doing well with these efforts and work to capture the same benefits they have realized. She cited the City of
Detroit deploying GIS in innovative ways to assist and serve marginalized communities, and using fire fighters and fire departments as a means of outreach; citizens perceive fire fighters different than other officials or police officers.

Commissioner Reinhardt noted that in Ramsey County, GIS analysis is critical for identifying areas of economic need and understanding areas of concentrated poverty and how to leverage their improvement.

Mayor Schneider indicated he would appreciate seeing examples of these benefits in future summary reports and meetings and providing links to their work, applications and analyses.

**Curtis Carlson, Northstar Multiple Listing Service Presentation:**
Curtis Carlson is the GIS Coordinator of NorthStar MLS which provides information services to the over 14,000 real estate industry professionals in Minnesota and Western Wisconsin.

Mr. Carlson’s presentation highlighted the specifics of the services they offer, the volume of data they manage and how they acquire that data. He cited the crucial role of GIS in serving their customers with good data and the tremendous benefit of access to open data for serving their client base. His presentation is appended to the end of these minutes.

**5b ) Changes to the Regional Parcel Dataset Agreement between the Seven Metropolitan Counties and the Metropolitan Council**

Coordinator Maas refreshed the group on the status of the Legal Agreement between the Metropolitan Council and the County governments; under which:

The Counties have provided parcel data in the MetroGIS standard, consistently updated metadata for the parcel data and access the historical parcel data (three years old and older) while the Metropolitan Council provides distribution of the data through DataFinder, administration of license agreements and $4000/year to each county from MetroGIS’ budget.

The current agreement which was executed in January 1, 2012 currently extends to January 1, 2016 and will end at that time. Both County and Council staff are seeking the transition to a Memorandum of Agreement to replace the legal contract which Highlights the value of continued collaboration between partners, does not focus on parcel data exclusively and still enables a portion of the MetroGIS budget to be directed to the county GIS departments to build applications and translation engines to get data into regional (and state) formats and standards.

County and Metropolitan Council staff proposed the development of a draft Memorandum of Agreement over the winter of 2014-2015, submittal of that document to the Policy Board members for their review, comment and approval at the April 30, 2015 Policy Board meeting.
Commissioner Reinhardt voiced her support for transitioning to a Memorandum of Agreement stating that this is an excellent demonstration of cooperation and trust among the partners and how the collaborative has evolved since the early days of working with each County Attorney’s Office to craft the agreement language with significant cost and effort. She cited that the technology has evolved and our policies as governments need to evolve as well. She further stated that Minnesota and MetroGIS are examples to other states and regions in the arena of GIS and that this kind of agreement is a continued demonstration of our ability to work together to serve the public.

Nancy Read (Technical Director, Metropolitan Mosquito Control Board) stated that as a regional government, the Mosquito Control Board benefits greatly from not just the availability of the data but also its proliferation in a standardized format for the counties and having a means to maintain the data in the standard was a significant benefit to her organizations interest.

Mayor Schneider also voiced his support for the transition out from the encumbrances of the legal agreement to something that leverages the benefit of open data, benefiting the general public, private sector and how these various actors can to continue to work easily and effectively with one another.

Board Member Texer motioned that a draft Memorandum of Agreement be drafted by County and Council staff and submitted to the members of the Policy Board for formal review, comment and approval at the April 30, 2015. Commissioner Reinhardt seconded, motion carried. County and Council staff—working through the MetroGIS Data Producers Work Group/Eight County Collaborative—will commence work on the draft document for submittal to the Board.

5c ) U.S. National Grid Emergency Response Signage in Regional Parks and Trails

Randy Knippel provided a presentation on the deployment of U.S. National Grid (USNG) Emergency Response Signage in regional parks and trails in Dakota County. He cited the need for this resource in large park areas with significant trail networks for guiding first-responders to respond to emergency situations.

The USNG has been a national standard since 2001, adopted by a range of federal agencies and states (by Minnesota in March 2009) and how it emerged from the Military Grid Referencing System as is in use by the National Guard and NATO forces, National Search and Rescue Committee. He highlighted its ease of use, the range of mobile applications available with make use of USNG, the work of SharedGeo in developing the signage and web application (usngapp.org) and the on-going work with first-responders to ensure they were able to use the system effectively and efficiently.

Commissioner Gerlach asked how this system differed from traditional latitude and longitude coordinates. Knippel indicated that the USNG functions better in the local arena as longitudes have east/west coordinates that use negative decimals (moving west). He also cited that the
use of the USNG is part of the standard military training and that the on-the-ground interpretation is much easier in a situation than working with latitude and longitude.

He further cited that simply because USNG is a national standard does not mean it has been effectively implemented nationwide. Upcoming efforts in the metro region include working with the City of St Paul (citing the recent tragedy in Lilydale Park) and Lebanon Hills Park working with the mountain biking groups who use that park.

The USNG presentation is appended to the end of these meeting minutes.

5d ) General Fund Allocation for Geospatial Projects

State Geospatial Information Officer Dan Ross presented the current state of statewide GIS and the current absence of full statewide layers of core geospatial data. He cited that at present, GIS is underfunded. As we ramp up to NextGen911 we need to be addressing the gaps in our data layers, but also for the many other uses and needs. Emergency response is a major driver to help leverage funding and awareness at the policy maker level. He stated he has strong support from Commissioner Parnell to keep the funding discussion moving.

Ross indicated that the Minnesota Geospatial Commons will be the focal point for delivery of data and collaboration. The site has been active since summer of 2014; however, it is not complete of fully populated with the data it needs to fulfill its intended purpose.

The future legislative proposal will focus on support for statewide data aggregation and standardization, the premise of publicly available data and services and that the Statewide Geospatial Advisory Council will prioritize and guide those investments. The focus will be on working with local governments to build and sustain the foundational data layers; we can leverage the work here in the metro and capitalize on that for work in Greater Minnesota.

Ross cited recent examples of successful programs including LIDAR data, a $9 million dollar program creating a wealth of public useful data. He also cited the challenges of acquiring aerial imagery due to the seasonal conditions (leaf-on/leaf-off) and the one-time grants rather than sustainable funding that have made the program work thus far.

He further cited the need for working toward a standardized hydrographic data layer as at present the data is created, maintained and used by number of agencies interests. He indicated he will return to the Policy Board with updates on these development and potentially be seeking letters of support for advancing them further.

Board Member Texer indicated that when the time comes for support from the Policy Board, if we are between meeting cycles, some sort of email contact to solicit letters of support would be useful.
5e) Road Centerline Initiatives Updates

Maas provided a brief update on the need for and progress of the Statewide Centerline Initiative and Metro Regional Centerline Collaborative and the sunsetting of the NCompass contract in January of 2016. The Statewide effort has been centered around the needs of MnDOT for federal reporting and the eventual support of a linear reference system, while the metro effort has focused on meeting the specifically documented needs of the metro partners for routing, geocoding and emergency response.

Councilman Elkins stressed the need for the road data systems to conform to the State Aid data as it is linked to the funding to local jurisdictions. Dan Ross and Ramsey County GIS Manager Matt Koukol, both former employees of MnDOT, concurred that is an essential need that will take some effort as the State Aid practices are firmly in place to meet their specific needs.

Maas summarized the update with a chart showing the status of the state project, the metro project and the timeline for phasing out the NCompass contract in 2016. These materials are available in the presentation slides appending to the end of these minutes.

5f) Address Point Data Progress

Mark Kotz, Chair of the MetroGIS Addressing Work Group provided an update on the development of the standardized address point dataset in the Metro region. He provided a brief refresher on what address points are and why they are a needed core geospatial data layer for many business purposes such as emergency response, unit tracking, mailing and delivery and change notification streamlining. He reiterated the MetroGIS vision of having a point for every official address arising from the authoritative source (addressing authority) that are updated frequently, maintained in a standardized format and freely available to the public.

Kotz indicated that currently Dakota and Carver Counties have deployed the MetroGIS Addressing Tool (version 2.0) and have their points available via DataFinder. Three other counties, Anoka, Hennepin and Ramsey are actively testing the tool and that Scott and Washington Counties are considering the tool at present.

A new version of the tool (version 3.0) is in development and is anticipated to be available in January 2015, improvements to the tool include functionality for address change reporting, proposed address reports, calculation of a hypothetical address and improvements to the user interface. Version 3.0, like the previous versions will be freely available to any government in Minnesota and he cited that interest across the state is increasing in deploying this tool for creation of address point data.

Councilman Elkins asked how this tool and the resulting data synced up with the U.S. Postal Services mailing data and data standard. Kotz replied that the official address point represents the ‘situs’ address, which is technically not the same as the postal delivery address, however
there is the potential to carry both addresses in the MetroGIS tool and standard; both addresses can exist in the same database. His presentation is appending to the end of the minutes.

5g) Stormsewer Dataset Initiative
Geoff Maas provided an overview of the past and current effort toward a project focused on a metro-wide storm sewer network dataset. He indicated the multi-faceted nature of this issue as there are many local, regional, state and federal legal and technical interests in the issue. He cited examples of groundwater recharge, aging infrastructure, management of intense storm events, water consumptions and changing regulations as compelling points for working to standardize the data so agencies and interests can work together effectively. Maas cited recent work in documenting the business cases and needs of self-identifying agencies and listed a number of other interests he would be interviewing in coming weeks and months to document their need. His presentation is appending to the end of the minutes.

5h) MetroGIS Awards in 2014
Geoff Maas listed the three awards received by the MetroGIS Community in 2014. Commissioner Reinhardt was honored by the Minnesota GIS/LIS Consortium with the Lifetime Achievement Award, Coordinating Committee Member Hal Watson of the Department of Natural Resources was honored with the Minnesota GIS/LIS Consortium Polaris Award and the MetroGIS collaborative was honored by the University of Minnesota Humphrey School of Public Affairs and Bush Foundation with a State Government Innovation Award for its Free and Open Public Geospatial Data Initiative.

6) Open Forum/Other Business
No other topics were offered for discussion.

7) Next Meeting
The next in-person meeting of the Board will be on Thursday, April 30, 2015 at 7 pm; The next quarterly update to the Board will occur on (or near) Thursday, January 22, 2015.

8) Adjournment
Chair Schneider adjourned the meeting at 8:16 pm
Agenda Item 5a:
Free and Open Data Update and Summary

Randy Knippel
GIS Manager, Dakota County
Chair, MetroGIS Data Producers Work Group

Geoff Maas
MetroGIS Coordinator

October 23, 2014
October 23, 2013
MetroGIS Policy Board adopted a Resolution of Support;

November 20, 2013:
Directed Letters of Support to each Metro County Board

February 11, 2014:
Ramsey and Hennepin Counties adopted open data policies;

March 25, 2014:
Dakota County adopted an open data policy;

April 1, 2014
Carver County adopted an open data policy;

April 22, 2014
Anoka County adopted an open data policy;
October 2014:  
*Scott and Washington Counties: policy is under consideration*

Rising interest in Greater Minnesota as well;  
*St. Louis, Lake & Cook Counties* (Arrowhead Region)  
*Stearns County* (St. Cloud)

**Minnesota GIS/LIS Conference** (Rochester, October 1-3)  
*Panel discussion: county managers and GIS staff from all levels of government (well attended)*

**Clay County**  
Has been making data available since 1999 (without a policy);  
GIS Manager Mark Sloan indicated that he is **interested in now pursuing a formal policy on free and open data based on the MetroGIS model**
County Perspective

Eliminated burden of administering licenses and fee transactions for marginal benefit

Eliminated the need to implement onerous security measures

County well positioned to leverage benefits of MN Geospatial Commons (MnGeo)
  • Each county pursuing data publishing individually

Worked well as a collaborative initiative
  • MetroGIS Data Producer Workgroup
  • 8 County Collaboration

What’s next?
  • Build awareness of data availability
  • Promote use of the data
**Code-a-thon**

**Open data event**
- Technology developers
- Community members
- GIS professionals and enthusiasts

Create technology solutions:
“... improve county services, give residents greater access to government data and make a difference ...”
Free and Open Public Geospatial Data
As of January 1, 2014

Data is Freely Available: No Formal Policy Adopted
Sale and Licensure of Data
No Data / Limited Data Available

Sources:
- Boundary Solutions, Inc. (2014 data)
- Phone interviews with staff in counties in Minnesota (2014)
- Minutes of County Board Proceedings (2014)

Note: This map is subject to frequent updates
Free and Open Public Geospatial Data
As of September 22, 2014

Data is Freely Available: No Formal Policy Adopted
Sale and Licensure of Data
Data In Development
Free and Open Data Policy Adopted: Data Freely Available
Free and Open Data Policy Under Consideration
Current Status Unknown

Sources:
- Phone interviews with county staff (Jan-Sep 2014)
- Minutes of County Board Proceedings (Jan-Sep 2014)
- Web searches for parcel data and parcel data viewers (Jan-Sep 2014)

Cross-reference:
- Boundary Solutions, Inc. (2014 data)

Note: This map is subject to frequent updates
Attention from outside the Metro

MetroGIS research and advocacy for free and open public geospatial data have garnered the attention of Greater Minnesota and other states;

In Minnesota:
Several county GIS managers and staff have contacted us with questions on the ‘how to?’ of open data;

New York State GIO William Johnson
Making use of MetroGIS’ research;
Minnesota as an excellent case study for how to do this;

Co-presented on the issue at the NSGIC national conference 9/16/2014 in Charleston, SC
National Trends

Presence of Open Data Policy (2 points max)
Quality of Open Data Policy (3 points max)

Presence of Open Data Portal (2 points max)
Quality of Open Data Portal (1 point)

Top States for Open Data:

Hawaii 1st (8)
Illinois 2nd (8)
Maryland 3rd (8)
New York 4th (8)
Oklahoma 5th (8)
Utah 6th (8)
Connecticut 7th (7)
Texas 8th (6)
Rhode Island 9th (6)
New Hampshire 10th (6)

Minnesota Ranked 22nd Score of (3)

Source: Government Technology and Center for Data Innovation (datainnovation.org)
Open Data in Minnesota

Policy and technical aspects

Support for our statewide data portal;

**Funding** for creating and maintaining data resources;

**Economic potential** of open data;
Open Data

Smoking

Seat Belts

Access to Information

The generation now entering the workforce grew up with the Internet, and expect immediate and unfettered access to data;

Businesses may do some online “prospecting” and decide that your city, county or state is not “open for business”, and you may never even know about it!
Who is the MLS?

* 22 employees
Who is the MLS?

- 22 employees
- Serving:
Who is the MLS?

- 22 employees
- Serving:
- 16130 Real Estate Agents
Who is the MLS?

* 22 employees
* Serving:
  * 16130 Real Estate Agents
  * 2870 Real Estate Offices
Who is the MLS?

- 22 employees
- Serving:
  - 16130 Real Estate Agents
  - 2870 Real Estate Offices
  - 48,000+ Active Listings
Who is the MLS?

- 22 employees
- Serving:
  - 16,130 Real Estate Agents
  - 2,870 Real Estate Offices
  - 48,000+ Active Listings
  - Average of 260 new listings per day
Who is the MLS?

- Owned by MAAR & SPAAR & Serving SCAAR, WWAR & GLAAR
- Not for profit but exists to serve subscribers
The MLS is DATA

* Provide property listing services and related data primarily to support the Real Estate industry.
* Subscription based service

* Two main types of data:
  * Currently listed properties available for sale.
    * Matrix / AddEdit
  * Base tax & characteristics data for all properties in MN and WI.
    * Realist
The MLS is DATA

* Provides data feeds to participating brokerage firms.
The MLS is DATA

- Stream data to Mobile Apps too!
Subscribers

- Real Estate Agents
- Brokerage Firms
- Property Appraisers
- Attorneys
- Business Research
- Media Outlets
Residential Listings make up 95% of all listings in our database.

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<th>Sales Total</th>
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<th>%</th>
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<td>95%</td>
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<tr>
<td>Lots &amp; Land</td>
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16000+ data entry people adding data to the same database.

RULES ARE IMPORTANT!

90GB of Sales Listings tabular data
850GB of listing photos and forms
Archived property sales data back to 1989
Today

* 48946 Active listings
Create & manage new sales listings

### NEW SINGLE FAMILY LISTING

To Save this Listing, please complete all required fields. At the bottom of the screen click the "Save as Active" link.

If you are unable to complete the listing at this time, please click the "Save as Incomplete" link and complete your listing within 7 days. All incomplete listings are removed 7 days after initial entry date, regardless of any later edits.

For your convenience, the Auto-Save feature saves information every 5 minutes.

To Add a Withhold, enter the required fields for Withholds (address, PID number, List Date, Expiration Date) and click the "Save as Withhold" link. All Withholds are automatically removed at midnight on the Expiration Date.

<table>
<thead>
<tr>
<th>Jump To Group:</th>
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<tbody>
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</tbody>
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#### Location

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<th>Zip:</th>
<th>Postal City:</th>
<th>Street Direction Prefix:</th>
<th>Street Suffix:</th>
<th>Unit Number:</th>
<th>County:</th>
<th>Neighborhood:</th>
<th>Postal:</th>
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<td>273 - Edina</td>
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Search Sales Listings Matrix

NorthstarMLS

Select criteria such as Status, Map Search, Contingent Offer Accepted, Contingent on, School District, County, Municipality, Zip Code, List Price, Sold Price, MLS ID, Style, Bedrooms, Total Baths, Year Built, Acres, and Distressed Only.
Search Sales Listings
Property info search

Realist
How we use GIS Data

* Validate listings for accuracy
* Improve accuracy where possible:
  * Location Data
    * Section / Township / Range / Quarter
    * Latitude / Longitude coordinate
    * Municipality
  * Property Characteristics
    * # Bedrooms
    * # Bathrooms
    * Square Footage
How we use GIS Data

- Pre-populate new listings with as much data as possible.
- Statistical analysis
- Development of new datasets or characteristics data
How we use GIS Data
How we use GIS Data

Barron County, WI
How we use GIS Data
How we use GIS Data
How we use GIS Data
## How we use GIS Data

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Benefits from freely shared data

- Reduced Costs (annual savings already of $3650)
- Increased data accuracy
- More current data
- Better quality data in a larger territory
- Greater efficiency for agents = time savings
- Benefit to agent subscribers =
Benefits from freely shared data

- Reduced Costs (annual savings already of $3650)
- Increased data accuracy
- More current data
- Better quality data in a larger territory
- Greater efficiency for agents = time savings
- Benefit to agent subscribers =

**Benefit to the public!**
Thank you!

Curtis L. Carlson | GIS Coordinator
NorthstarMLS®

ccarlson@northstarmls.com
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2550 University Avenue W., Suite 259S Saint Paul, MN 55114
44° 57' 53.92" N 93° 12' 13.79" W

www.northstarmls.com
For your Information. For your Success.
Agenda Item 5b: Changes to the Regional Parcel Dataset Legal Agreement between the Seven Metropolitan Counties and the Metropolitan Council

Randy Knippel
GIS Manager, Dakota County
Chair, MetroGIS Data Producers Work Group

Mark Kotz
GIS Manager, Metropolitan Council,
Chair, MetroGIS Addressing Work Group

Geoff Maas
MetroGIS Coordinator

October 23, 2014
Background:

Legal agreement executed between the Seven Metropolitan Counties and the Metropolitan Council

The Counties provide:
> Parcel data in MetroGIS Standard;
> Updated metadata for the parcels;
> Access to historic parcel data;

The Metropolitan Council provides:
> Distribution of the data through DataFinder;
> Administration of license agreements;
> $4000/year to each county from MetroGIS’ budget;

Current Parcel Data License Agreement effective on 1/1/12;
Has been extended to 1/1/16
With the onset of Free and Open Data...

...the legal agreement no longer ‘carries the weight’ or serves its original intended purpose.

County and MetCouncil staff support the transition toward a Memorandum of Agreement which:

Highlights the **value of continued collaboration** between partners;

**Does not focus on parcel data exclusively;**

Still enables a **portion of MetroGIS budget to be directed to the county GIS departments** to build applications and translation engines to get data into regional (and state) formats and standards;
What’s Next?

**Winter 2014-2015:**
Counties/Council to jointly develop draft MOA language and agree on terms;

**April 30, 2015:**
Present draft MOA language to the MetroGIS Policy Board for review, comment and approval;

**December 2015:**
“Sunset” of the old legal agreement;
Agenda Item 5c: U.S. National Grid Emergency Response Signage in Regional Parks and Trails

Randy Knippel
GIS Manager, Dakota County
Chair, MetroGIS Data Producers Work Group

October 23, 2014
• 68 Parks
• 68 Parks
• 358 Miles of existing trails
• 68 Parks
• 358 Miles of existing trails
• 226 Miles of planned trails
- 20 miles existing trails
- 51 miles proposed trails
- 75 miles trails in parks
- 6100 acres parks
- Many large city parks
Whitetail Woods Regional Park

• 12 Miles of trails
Whitetail Woods Regional Park

- 12 Miles of trails
- Adjacent to DNR land
LEBANON HILLS REGIONAL PARK
DEVELOPMENT MASTER PLAN

Draft: October 24, 2013

Dakota County Parks • Dakota County Office of Planning • HKGi • Barr Engineering
U. S. National Grid

• National standard since 2001
• Adopted by federal agencies
  – FEMA, DHS, NGA, USGS
• Adopted by several states
  – Florida, Missouri, North Carolina, others
  – Minnesota (March 25, 2009)
• Military Grid Referencing System (MGRS)
  – National Guard
  – All NATO forces
National Search And Rescue Committee

Federal-level committee formed to coordinate civil search and rescue (SAR)
Mobile Apps
Pilot Project

• Work with first responders to develop:
  – Sign placement guidelines
  – Training exercises and materials
  – Standard maps and educational materials
  – Public education
Lebanon Hills Regional Park
Lebanon Hills Regional Park

- 47 Miles of trails
Agenda Item 5d:

Funding for Collaborative Programs

Dan Ross
State Geospatial Information Officer
Minnesota Geospatial Information Office
MN.IT Services
Legislative Funding Proposal

Request for funding for foundational data, services and applications;

Minnesota Geospatial Commons to be the focal point for delivery of data and collaboration;
Legislative Funding Proposal

Focus on data aggregation and standardization statewide;

Data & Services: Publicly Available

Statewide Geospatial Advisory Council will guide the investments
Priorities
*Should the funding become available*

Shared data and services
Minnesota Geospatial Commons

**Collaborative partnerships** to create and sustain **statewide data** and **services** for:
- Centerlines
- Address points
- Parcel data

**Sustainable programs** for updates to:
- LiDAR
- Aerial Imagery
- Hydrography and groundwater data
Discussion? Questions? Concerns?
Agenda Item 5e:
Road Centerlines Projects Update

Dan Ross
State Geospatial Information Officer
Minnesota Geospatial Information Office

Matt Koukol
GIS Manager, Ramsey County

Mark Kotz
GIS Manager, Metropolitan Council
Chair, MetroGIS Addressing Work Group

Geoff Maas
MetroGIS Coordinator

October 23, 2014
Project Goal:

To develop a road centerline data solution that meets a wide variety of agency needs;

Sourced from local road authorities;

Best data comes from local sources;
Core tenets of the project

**Authoritative Road Dataset**
All users can rely on it to represent actual roadway assets

**Multi-Purpose Road Dataset**
- Meets many uses
- Reduces agency cost
- Eliminates redundant effort
- Facilitates **better data capture**
- Facilitates accurate **inter-agency reporting**

**Public-Domain Dataset**
A version of the data will be **freely available** to non-government public data consumers;
Examples of **Shared Needs:**

- Accurate Mileage
- Accurate Direction
- Number of Lanes
- Correct Street Name(s)
- Correct Address Ranges
- Edge-Matched at Boundaries
- Cartographic Representation
Examples of **Specific Needs:**

**MnDOT:**
Federal mileage reporting

**County Governments:**
Emergency response
Pavement management

**Metropolitan Council:**
Transit Planning and Routing

**Many, many others...**
At present:

**Metro Partners:**
- Re-activated metro road project in Spring 2014;
- Hennepin County providing coordination the project
- Agreed upon a draft local data model (Sept 2014);
- Developing a sample dataset for testing in late 2014;

**MnDOT & State Partners:**
- MnDOT refining its data;
- Developing tool sets;
- Engaged with pilot partners;
Metro Regional Centerline Collaborative: Proposed Sample Dataset Area

Line extending from end of 44th Ave NE to the center of Mississippi River

ANOKA COUNTY

RAMSEY COUNTY

HENNEPIN COUNTY

Project Boundary Explanation:
- **Concurrent with existing roadway**
- **No existing roadway**
- **Concurrent with center of Mississippi River**

Scale: 0 400 800

09.22.2014 (L. Mazo)
Agenda Item 5f:
Address Points Progress

Mark Kotz
GIS Manager, Metropolitan Council
Chair, MetroGIS Addressing Work Group

October 23, 2014
What are Address Points?
What are Address Points?
Why do we need them?

Emergency response: NextGen 9-1-1;
Cities track individual units;
Mailing to residences or units;
Single authoritative source for data;
Streamline address change notification;
MetroGIS Vision

• A point for every official address
• From the authoritative source
• Up-to-date (weekly or daily)
• Standard format
• Region-wide
• Freely available
• Sustainable solution
Regional Dataset Status

• 2 of 7 counties (Dakota & Carver);
• 55 of 150+ address authorities;
• Ramsey County data (coming soon);
• “Periodic” updates;
• Synchronization strategy being developed;
# Editing Tool Status

**Version 2.0 completed in January 2014**

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<th>Status</th>
<th>Counties</th>
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<tr>
<td><strong>Testing</strong></td>
<td>Anoka County, Hennepin County, Ramsey County</td>
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<tr>
<td><strong>Considering</strong></td>
<td>Scott County, Washington County</td>
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Editing Tool Status

Version 3.0 of the tool:
Estimated completion by end of January 2015

New tool features:

• Address change reports;
• Proposed address reports;
• Calculate hypothetical address;
• User interface improvements;

Free to any government in Minnesota
State interest increasing
Questions?
Agenda Item 5g: Stormsewer Dataset Initiative

Geoff Maas
MetroGIS Coordinator
Adjunct Professor, GIS, University of Minnesota

October 23, 2014
Stormsewer Dataset Initiative

Stormwater:
• Changing perception of stormwater;
• *Resource* rather than a waste product;
• Protection of surface water;
• Groundwater recharge potential;
• Managing larger & more intense rain events;
• Aging, sub-surface infrastructure;
Multi-faceted issue

> Surface Water
  Protection of quality
  Protection of its quantity
  Water reclamation potential

> Groundwater
  Recharge potential
  Water demand vs. water supply

> Infrastructure
  Aging infrastructure system
  Maintenance and upgrade costs

All of these have fiscal, planning, resource and legal aspects;
Declining Lake Levels: White Bear Lake
Declining Lake Levels: White Bear Lake
Declining Lake Levels: Turtle Lake (City of Shoreview)
Water Usage in the Metro:

Increased Reliance on Groundwater Pumping

Surface water was the major source of supply through the 1970s

Groundwater has been tapped to meet growth needs since 1980s
2030 Model-Projected Aquifer Drawdown

City & Township Boundaries

- < 5 feet
- 5 - 10 feet
- 10 - 20 feet
- 20 - 30 feet
- 30 - 40 feet
- > 40 feet
- Drawdown Exceeds 50% Available Head

Note: These model results assume long-term average conditions and continued development of traditional water supplies. Summer conditions may exacerbate short-term drawdown.

Metropolitan Council, 8/26/2009
View datasets online at http://gis.metc.state.mn.us/makeamap

Source:
Metropolitan Council
2050 Model-Projected Aquifer Drawdown

City & Township Boundaries

Model-projected Drawdown: 2050
- < 5 feet
- 5 - 10 feet
- 10 - 20 feet
- 20 - 30 feet
- 30 - 40 feet
- > 40 feet
- Drawdown Exceeds 50% Available Head

Note: These model results assume long-term average conditions and continued development of traditional water supplies. Summer conditions may exacerbate short-term drawdown.
More Frequent Extreme Rain Events

www.nrdc.org/media/2012/120516a.asp
More Frequent Extreme Rain Events

WEATHER - EXTREME TRENDS
The Minnehaha Creek Watershed Stormwater Adaptation Study

Problem:
Climate research, current weather patterns and projected trends show a significant increase in both the frequency and severity of rain events across Minnesota. Existing stormwater management systems designed to control runoff and protect property when it rains may no longer function as intended. The infrastructure in these systems may prove inadequate, resulting in increased flooding damage to property, public safety concerns, and impacts to the quality of our lakes, streams and wetlands.

Objectives: The Minnehaha Creek Watershed Stormwater Adaptation Study will address some of these challenges for both growing and fully-developed communities. The study will:
1. Examine precipitation and land use trends within the watershed
2. Use that information to evaluate existing stormwater management systems
3. Identify ways to adapt our systems – including costs – to changing precipitation patterns
4. Facilitate a community-led planning process to provide a framework for developing local stormwater adaptation plans

For more information, please contact:
Leslie Yelles - Education Manager • Minnehaha Creek Watershed District
Ph: 952-641-4503 • LYLES@minnehahacreek.org
Terry Hamayek - Communications Director • Minnehaha Creek Watershed District
Ph: 952-641-4508 • THamayek@minnehahacreek.org

Minnehaha Creek Watershed District
http://www.minnehahacreek.org/project/weather-extreme-trends

Frequently Asked Questions

Q: Why should I or my organization participate in this study?
A: Results of this study will provide updated information on how to adapt stormwater management systems to changing weather patterns, ensuring a community is ready for more frequent extreme weather events. This preparedness will protect public property, public safety and a community’s financial and environmental resources. The study will also provide a cost analysis of various stormwater adaptation approaches, which will help guide a community’s decision-making process. By participating in the process, you can help determine the scope and direction of this research, making sure it addresses local needs.

Q: What will participation in this study cost me or my organization in terms of money and/or time?
A: This project is grant-funded. No financial contributions will be requested from participants or organizations. Every effort will be made to utilize participants’ time in the most focused and productive manner possible. Generally, time commitments will not exceed those presented in the timeline, including forums and task force meetings. All time contributed to this project is on a voluntary basis.

Q: Will this study result in the imposition of new policies or regulations that I or my organization will be held accountable for?
A: This study will be informed from current climate science with recommendations based upon the interests and priorities of local communities within the watershed. The Minnehaha Creek Watershed District and other local governments may use information generated from this study as a framework for future planning and policy-making decisions. Policy changes, if any, will be addressed through existing public processes.

Timeline
Spring 2012
- Develop future precipitation and land use models
- Host First Forum: Stakeholder Input and Adaptation Assessment

Fall 2012
- Complete analysis of stormwater management systems
- Develop cost analyses for stormwater management system adaptations
- Host stakeholder work group meetings derived from the First Forum

Winter 2013
- Host Second Forum: Stormwater Adaptation – Planning
- Host community workshops to share findings and strategies

Summer 2013
- Host Third Forum: Regional Stormwater Adaptation Symposium
- Share research findings, adaptation strategies, resources, and next steps

Partners: Project partners include Synthetic International LLC, Antioch University New England, the University of Minnesota, and Stratus Consulting. Funding for this two-year study is provided through a grant from the Climate Program Office of the National Oceanic and Atmospheric Administration.

S Y N T H E T I C  I N T E R N A T I O N A L
S U N, A P P L I C A T I O N S
S T R A T U S  C O N S U L T I N G
Dealing with Large, Damaging Events

Duluth Flooding
June 17-20, 2012
>$100 Million in damage
Regulatory Environment

**MS4 Permit Issued in May 2013**

Increased demand to
‘hold water in place’

*Post-construction* conditions are to emulate *pre-construction* conditions;

Tracking and removal of illicit discharges:
‘...mapping all storm sewer pipes between 12” and 24”...’

**Stormwater ponds:**
20-year lifespan, due for cleaning;
Has potential to be very costly;
### Stormwater Regulatory Authorities in Minnesota

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- **Primary Permitting Authority**
- **Permitting Authority (Under Specific Circumstances)**
- **Review Authority on Permits**
- **Enforcement Authority**

*Local Government Unit:
In Minnesota this can mean county, city, township watershed district or tribal government unit.
Stormsewer Dataset Initiative

Where GIS comes in:
• Flow modeling;
• Infrastructure asset management (inspections, repairs);
• Mapping and visualization;
• Meeting permit requirements;
• Large data producer and user community using the same data and working together (at all levels of government)
What is the Proposed Project?

Long-Term Project Goal:
To develop and maintain a region-wide stormsewer asset dataset that is:

...produced and updated from the authoritative data;

...utilized for public benefit by its user community;

...easily acquired by approved users;

...provides benefit to all participants (both the data producer and consumers);
Current Status: In Development

Research & documentation of specific business cases

Completed:
Metropolitan Mosquito Control District  (8/28/14)
University of Minnesota Ecology Lab  (9/5/14)
Ramsey-Washington Metro WSD  (9/12/14)
MetCouncil Environmental Services  (9/26/14)
City of Shoreview  (10/13/14)
St. Olaf College GIS/Environmental Studies  (10/20/14)

Scheduled:
U.S. Geological Survey  (11/5/14)
Stakeholders to be interviewed
Mississippi National River & Recreation Area
Minnehaha Creek Watershed District
Mississippi Region Watershed Mgmt. Org.
Capitol Region Watershed District
Other Metro regional watershed districts
County Soil and Water Conservation Districts
County Public Works Departments
Emergency Services (spill containment) interests
U of M St. Anthony Falls Stormwater Laboratory
U. S. Army Corps of Engineers
Any/all metro cities under an MS4 permit
Consulting engineering community
Bureau of Soil and Water Resources (BWSR)
Minnesota Dept. of Natural Resources (MnDNR)
Minnesota Dept. of Transportation (MnDOT)
Minnesota Department of Health (MDH)
Minnesota Pollution Control Agency (MPCA)
Agenda Item 5h: MetroGIS Awards in 2014
Minnesota GIS/LIS Consortium
Lifetime Achievement Award

Ramsey County Commissioner
Victoria Reinhardt

October 2, 2014
Rochester, MN
MN GIS/LIS Annual Conference
Minnesota GIS/LIS Consortium

Polaris Award

Minnesota Department of Natural Resources
MetroGIS Coordinating Committee Member

Hal Watson

October 2, 2014
Rochester, MN
MN GIS/LIS Annual Conference
MetroGIS Free and Open Public Geospatial Data Initiative

August 7, 2014
St Paul, MN
Minnesota History Center