



**Approved by the MetroGIS Coordinating Committee  
January 12, 2017**

MetroGIS  
390 Robert Street North  
St Paul, Minnesota 55101  
[www.metrogis.org](http://www.metrogis.org)





# MetroGIS 2017 Work Plan

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## Contact

Questions about this document may be directed to:

*Geoff Maas, GISP*  
*MetroGIS Coordinator*  
*390 Robert Street North*  
*St Paul, Minnesota, 55101*  
[geoffrey.maas@metc.state.mn.us](mailto:geoffrey.maas@metc.state.mn.us)  
*651.602.1638*

## What is MetroGIS?

MetroGIS is voluntary collaborative of government, private sector, non-profit and academic interests that works to serve the on-going need for geospatial information in the Twin Cities metropolitan region. MetroGIS was formed in 1996 in response to the articulated need for maximizing the benefits of sharing geospatial data in the region.

The goal of MetroGIS is *to expand stakeholders' capacity to address shared geographic information technology needs through a collaboration of organizations that serve the Twin Cities metropolitan area.*

Relying entirely upon voluntary participation, MetroGIS realizes this mission by:

- *Identifying and defining shared geospatial information needs;*
- *Implementing collaborative regional solutions to address shared needs;*
- *Fostering widespread access and sharing of geospatial data;*
- *Fostering recognition of the value of GIS as a core business tool;*
- *Facilitating knowledge sharing relevant to the advancement of GIS technology;*

## MetroGIS' Mission Statement

*"To provide an ongoing, stakeholder-governed, metro-wide mechanism through which participants easily and equitably share geographically referenced data that are accurate, current, secure, of common benefit and readily usable."*



*- adopted February 1996*

## Sponsorship Statement

The work of MetroGIS is made possible and strengthened by the range of resources offered by its entire stakeholder community. Since MetroGIS' inception in 1996, the Metropolitan Council has provided the financial resources and administrative oversight to the collaborative, while other agencies, organizations and governments provide data, research, expertise, guidance, in-kind contributions and governance.

This blend of diverse resources is vital to the continuance of MetroGIS's ability to represent and serve the broad geospatial stakeholder community of the Twin Cities metropolitan region.

*"MetroGIS", "MetroGIS DataFinder" and "Sharing Information Across Boundaries" and the MetroGIS logo and seal are registered service marks of the Metropolitan Council.*

## Introduction

The purpose of the MetroGIS Work Plan document is to provide a concise summary of the projects and activities to be undertaken in calendar year 2017 by the participants of the MetroGIS collaborative. The Work Plan is intended to be a living document and is subject to changes recommended by the MetroGIS Coordinating Committee.

## Revision Procedure

The MetroGIS Coordinating Committee will formally revisit and edit the Work Plan once per year (*generally at the Fall Committee meeting*) to chart the progress of existing projects and include new projects which rise in priority and interest. The Annual Work Plan is then formally adopted by vote of the Coordinating Committee. The Work Plan is used as the primary instrument to direct and program the annual MetroGIS budget.

## Mid-Year Adjustments

Revisions and modifications to this Work Plan can be suggested by any member of the Coordinating Committee and be approved by vote at any quarterly meeting. For a new project recommendation, a Coordinating Committee member may propose the project at a quarterly meeting. Committee members are encouraged to indicate the following regarding their proposed project:

- A project **owner**: *A person who would serve in a leadership role for the project, to act as its spokesperson and steward;*
- A project **champion**: *A person at senior management or policy-maker level who can advocate for the benefits of the project and its outcomes;*
- A project **work team**: *A group of individuals committed to the work tasks, review, course correction and implementation of the project;*
- A business case summary or similar document outlining the need(s) for the project and an indication of the anticipated **benefit** of the proposed project;
- A recommendation as to **budget requirements** and possible **funding source(s)**;

Upon receiving project proposals, the Coordinating Committee may then decide to:

- Accept the project to be worked on in the current year and prioritize it relative to the other projects schedule for this year;
- Table, or 'put on hold' the proposal and request additional information be gathered or research to support the project be conducted.
- Direct the Committee members, other staff or duly appointed party to conduct further research on behalf of the project and bring their findings to the Committee.
- Create a work group to begin work, research or other activities;
- Postpone the project until the next annual planning cycle;

## **Publication and Availability of the Work Plan**

Revision and re-publication of the Work Plan document is the responsibility of the MetroGIS Coordinator or a duly appointed designee by the Coordinating Committee.

A copy of the most current formally adopted and approved MetroGIS Work Plan will be made available to the stakeholder community and general public via [metrogis.org](http://metrogis.org) or upon request submitted to the MetroGIS Coordinator.

## **MetroGIS Coordinating Committee Membership (December 2016)**

Matt Baker, Metropolitan Airports Commission

David Brandt, Washington County, Coordinating Committee Vice-Chair

Hal Busch, City of Bloomington

Curtis Carlson, Northstar MLS

Gordy Chinander, Metropolitan Emergency Services Board

Erik Dahl, Minnesota Environmental Quality Board, Coordinating Committee Chair

James Fritz, Xcel Energy

Eric Menze, Resource Data, Inc.

Brad Henry, University of Minnesota

Pete Henschel, Carver County

Len Kne, University of Minnesota

Randy Knippel, Dakota County

Mark Kotz, Metropolitan Council

Matt Koukol, Ramsey County

Carrie Magnuson, Metro Chapter, Minnesota Association of Watershed Districts

Mark Maloney, City of Shoreview

Jeff Matson, Center for Regional and Urban Affairs

Tony Monsour, Scott County

Nancy Read, Metropolitan Mosquito Control District

Dan Ross, Minnesota Geospatial Information Office

John Slusarczyk, Anoka County

Gary Swenson, Hennepin County

Ben Verbick, Local Government Information Systems (LOGIS)

Hal Watson, Minnesota Department of Natural Resources

Norine Wilczek, Minnesota Department of Transportation

Ron Wencil, U.S. Geological Survey

### **MetroGIS Staff:**

Geoff Maas, MetroGIS Coordinator

## Summary of Accomplishments in 2016

The last Work Plan cycle for the MetroGIS collaborative was November 2015 through November 2016. The following summaries describe the progress of the project work initiatives.

### Free + Open Public Geospatial Data

All Seven Metropolitan Counties adopted free and open public geospatial data resolutions between February 2014 and October 2015. The research, deliberation, and action on free and open data in the metropolitan region has led to significant attention and action in Greater Minnesota, with several counties around the state also opening their data, standing up data portals, contributing their data to the Minnesota Geospatial Commons or beginning to examine the merits of moving toward free and open data. MetroGIS partners developed



A second research document in support of free and open geospatial data: *“Free + Open Public Geospatial Data in Minnesota: Questions, Answers, Concepts and Resources for Practitioners”* was prepared in 2015 by regional and state government staff to provide additional information and context on the issue to interested partners in Greater Minnesota. MetroGIS Coordinator Geoff Maas has acted as the ‘steward’ and editor of this document. Work in calendar 2016 saw the expansion of this document in response to questions arising from interests in Greater Minnesota. As of this writing the document is in its fifth version, and is to remain a “living document” This document is available here: [metrogis.org](http://metrogis.org) > [Projects](#) > [Free + Open Data](#). This document will be revised and expanded as needed during the year.

Members of the MetroGIS collaborative are members of the Geospatial Advisory Council’s Outreach Committee and participated in the development, distribution and publication of the ‘Free and Open Data Survey’ to counties in both the metro and in Greater Minnesota. The survey results were gathering in September 2016 and presented at the GIS/LIS Conference in Duluth on October 27, as well as to the Association of Minnesota Counties on December 5 and at the Government IT Symposium in St. Paul on December 8.

### MetroGIS Regional Parcel Dataset and the New Memorandum of Agreement.

With the adoption of free and open data resolutions in 2014-2015, the Regional Parcel Dataset is now freely available to all users via the Geospatial Commons without fee or licensure.

On December 31, 2016, the long-standing Parcel Data Sharing Agreement between the Seven Metropolitan Counties and the Metropolitan Council will sunset, being replaced by a new Memorandum of Agreement and contract. Under this new MOA and accompanying contract. The Council will continue to remunerate each participating metropolitan county at the rate of \$4000/year to configure its various shared datasets (roads, address points and parcels) into approved regional and state standards. The new MOA and contract go into effect on January 1, 2017 through December 31, 2018 (two calendar year), with two (2) one-year extensions (calendar 2019 and 2020) permitted under the contract.

### **NCompass Centerline Dataset**

In 2011, MetroGIS facilitated the renewal of the contract between the Metropolitan Council and private data vendor NCompass for road centerline data. MetroGIS continues to facilitate and oversee this agreement, and has extended its present contract with NCompass through December 31, 2017. This agreement provides access to the NCompass Street Centerline and Landmarks data, at no fee, to all State and Local Government agencies as well as all colleges and universities in Minnesota. The Metropolitan Council has funded the licensing of these data for use and manages the licenses for use of qualified users. As of November 1, 2016, there are 81 registered users of the NCompass Centerline Dataset.

### **Minnesota Geospatial Commons**

In July of 2016, the MetroGIS Coordinating Committee agree to commit \$14,110 of its 2016 budget to the Commons project for maintenance and back-end development support.



### **Metro Regional Centerline Collaborative (MRCC)**

In May 2014, partners in the metropolitan region including the Seven Metropolitan Counties, the Metropolitan Emergency Services Board and the Metropolitan Council with participation from the Minnesota Department of Transportation and Minnesota Geospatial Information Office kicked off a regionally focused initiative to define core road data needs and work toward meeting them by developing an authoritatively-sourced, publicly available road centerline data solution.



In 2016, the MRCC project saw sustained progress and momentum including:

- A well-attended 'Milestone Meeting' on February 29, 2016 to assess status and needed direction of the project;
- Revisions of the MRCC data specification to Version 1.5 to accommodate Postal Communities and modification of attributes for enhanced use by NextGen911;
- Completion of the 'Second Build' on September 30, 2016;
- Technical Session on data work flow, 911 integration and edge matching on December 16, 2016

### **Statewide Centerline Initiative (SCI)**

The Statewide Centerline Initiative (SCI), which originally kicked off in October 2012 remains focused on the long-term, state-wide road data solution that meets a variety of local, regional, state and federal agency needs, primary among them is the integration of locally produced data into a statewide Linear Reference System. As of late 2016, MnDOT remains the main agency guiding the initiative in documentation of its internal agency needs and in working with ESRI to develop a set of data capture tools to the data producer community. State-level partners have been involved with the Metro Regional Centerlines Collaborative effort which is acting as an important 'advance guard' research and development project for the SCI to capitalize upon in the future.



### **Address Editor Tool**

Version 3.0 of the Address Editor Tool was completed and made available in March 2015 containing expanded tools and functionality from 2.0. This Address Editor Tool is freely available to all governments in the State of Minnesota. At present, no Version 4.0 of the tool is planned, however, stakeholders are invited to document their individual and collective need for future enhancements.

### **Regional Address Points Dataset Aggregation Project**

Aggregation of the prepared address point data into a federated regional dataset remains a MetroGIS priority. To meet this aim, a MetroGIS work team was created in 2013. The team is tasked with developing a workflow and technical solution for gathering, aggregating and distributing the address points as they are created and ready to be made available. The project team convened in June 2015 and began work on a small pilot project involving address point data from Carver and Dakota counties, working in tandem with the Metropolitan Council, MN.IT Services and the Department of Natural Resources. At present, Metropolitan Council staff collect, aggregate and publishing the Regional Address Points dataset twice per year (April and October) and publish this data on the Geospatial Commons. The Metropolitan Council is positioned to continue this service until a more formal aggregation solution is developed and implemented.

### **Metro Regional Stormwater Data Project (Research)**

In calendar 2016, MetroGIS did not actively move this project forward, however, MetroGIS staff remains engaged with self-identifying stakeholders and documenting their business cases for a regionally standardized stormwater dataset. In July 2016, Geoff Maas was invited to present to the Board of the Metro Chapter of the Minnesota Association of Watershed Districts on the status of MetroGIS projects and the potential of the stormwater effort. As of November 2016, twenty-one (21) stakeholder agencies have been interviewed and their business cases documented. A list of additional agencies have been identified that need to be interviewed. This work builds upon the initial work started by MetroGIS in 2009 and 2010 and research conducted in 2012 and 2013. Significant technical, policy and legal work remains to be done in the development and maturation of this project.

### **Historic Aerial Imagery Project**

In 2016, MetroGIS assisted in the facilitation of the effort between the Borchert Map Library at the University of Minnesota, the Minnesota History Center, and the Metropolitan Council to have regional aerial imagery from 1956 and 1966 be archived, scanned, geo-rectified and made available for download and public use. The images, originally commissioned by the Metropolitan Council, were transferred to the History Center, and now reside as a resource in the Borchert Map Library as part of their permanent collection.

## MetroGIS Maintenance Activities



### Advocacy and Outreach

*MetroGIS provides a platform for advocacy for geospatial needs and initiatives and conducts outreach on the benefits of geospatial technology to government.*

#### MetroGIS Outreach Efforts

To demonstrate the value and benefits its efforts in interagency collaborative work, development of specifications and sharing of geospatial data in the metro, MetroGIS collaborative participants frequently speak, present and participate in events and report on the progress and results of our work. The following presentations were conducted in 2016 by MetroGIS participants:

Metro Regional Centerlines Collaborative Update - Metropolitan Council GIS Users Group  
*March 23, 2016, St. Paul (Maas)*

MetroGIS Project Update and Free and Open Data Update - LOGIS  
*May 11, 2016, Golden Valley (Verbick, Maas)*

Free and Open Geospatial Data in Minnesota: Process and Progress – Upper Midwest Geospatial Conference, *May 25-26, 2016, La Crosse, Wisconsin (Maas)*

Metro Regional Centerlines Collaborative Presentation– Upper Midwest Geospatial Conference, *May 25-26, 2016, La Crosse, Wisconsin (Maas)*

MetroGIS Project Update – Board of Directors, Metro MAWD  
*July 19, 2016, St. Paul (Maas)*

Free and Open Geospatial Data in Minnesota: Process and Progress - WLIA Conference  
*October 20, 2016, Trego, Wisconsin (Maas)*

Metro Regional Centerlines Collaborative Presentation - MN GIS/LIS Conference  
*October 27, 2016, Duluth (Houghton, Maas)*

Free and Open Geospatial Data Resources - MN GIS/LIS Conference  
*October 27, 2016, Duluth (Maas)*

Building Minnesota: Minnesota’s Geospatial Infrastructure - MN GIS/LIS Conference  
*October 28, 2016, Duluth (Ross, Kne, Maas)*

The Role of Counties in Free and Open Public Geospatial Data, Association of Minnesota Counties, *December 5, 2016, Minneapolis (Kne, Maas)*



## **Maintenance Activities**

*MetroGIS assumes a core maintenance role for a variety of activities serving the geospatial community of the metropolitan region.*

### **(1) Regional Parcel Dataset**

MetroGIS provides on-going support and maintenance for the Regional Parcel Dataset. This includes maintenance of license agreements, contracts, review and approval of data access requests and aggregation and distribution of data via the MetroGIS ftp site.

### **(2) Regional Address Point Dataset**

MetroGIS provides bi-annual collection, aggregation, and publication to the Geospatial Commons of the Regional Address Point Dataset. As of December 1, 2016, five (5) of the Metropolitan Counties are contributing their address points to the regional dataset resource.

### **(3) Metrogis.org website**

MetroGIS maintains the 'metrogis.org' website as a resource for a variety of audiences including MetroGIS stakeholders, governance participants, and researchers looking for data, standards and related information.

### **(4) MetroGIS Governance**

MetroGIS maintains three permanent governance bodies, the Policy Board (comprised of elected county commissioners and administrative-level decision makers), the Coordinating Committee (comprised of management-level professionals) and the Technical Advisory Team. The inter-communication between these groups is an essential part of the MetroGIS collaborative.

### **(5) Hosting of educational/data sharing forums**

MetroGIS is active in participating, promoting and facilitating educational, data sharing and related forums for the geospatial community of Minnesota.

### **(6) Participation in statewide geospatial initiatives**

MetroGIS continues to work collaboratively with all levels of government. Aligning our work plan, initiatives and efforts with complementary initiatives at the state level to reduce duplication is a key goal of this annual Work Plan.

### **(7) Data sharing advocacy and collaboration resource**

MetroGIS serves as a resource and source of information to the academic community as well as other governments in the operational procedure, funding, management and governance on the topic of inter-agency geospatial data sharing. MetroGIS takes an active interest in the legal and

legislative aspects of data development, data sharing and public data availability and supports efforts which facilitate these activities.



## MetroGIS Projects for 2017

*The following pages provide a one-page synopsis of each anticipated MetroGIS 2017 project. A short summary of the non-2017 projects discussed or planned for future work plans is also provided.*

### Project Prioritization Brief

As a volunteer collaborative with limited fiscal and human resources, MetroGIS needs to be judicious when selecting the projects and initiatives it will proceed with.

The table of projects below is drawn from:

- The prior MetroGIS project cycle;
- The results of the membership survey (Sept 2016);
- The suggested project proposals from members of the Coordinating Committee;

This list is inclusive of initiatives already underway. Projects were prioritized by the Coordinating Committee on October 13, 2016 and priority ranking is based on several factors including: identified stakeholder business needs, presence of key project owners, manager and work team members, likelihood of success and availability of funding (if needed). A more detailed description of the prioritization methodology is available in Appendix A of this document. Project priorities identified for the 2017 Work Plan work cycle are as follows:

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

Detailed descriptions of key project details are outlined in the following pages.

## #1 - Support for the Minnesota Geospatial Commons

Project Brief	The MN Geospatial Commons is a single location on the web where members of the geospatial profession can find and share geospatial resources to make us a stronger, more productive and more effective geospatial community and to increase that capacity of each participant. The State will own this project and MetroGIS will be a supporting participant.
Critical Stakeholders	MnGeo, all MetroGIS stakeholders Spatial data users in the State of Minnesota
Priority Level	<b>1<sup>st</sup>, Identified as the Top Priority for the 2017 Work Plan</b>
Budget	Staff time commitments and in-kind contributions of stakeholders MetroGIS contributed \$14,110 of its budget in 2016 to the Commons.
Benefit to Stakeholders	Having a single, trusted source for publicly available geospatial resources in Minnesota, and having a data sharing portal solution for those organizations that do not maintain their own portal
Project Owner(s)	Dan Ross, State Geographic Information Systems Officer
Project Champion(s)	Dan Ross, State Geographic Information Systems Officer Tom Baden, MN CIO
Project Team	Geospatial Commons Development Team comprised of staff from MnGeo, MPCA, MnDNR and other agencies
Expected Timeline	First public version was made available in July 2014 Formally launched in July 2015 All metrogis.org datafinder.org resources folded into the Commons by the end of Calendar 201
Key Steps Milestones	As of November 2016, there are 591 resources available from the Geospatial Commons.
Policy Implications	Possible policy implications for long-term sustainable funding mechanism to ensure the resource remains in place;

## #2 - Free & Open Public Geospatial Data Initiative

Project Brief	Continued assistance, research and support to metro and state stakeholder agencies and jurisdictions at all levels on the legal, political, fiscal and beneficiary aspects of making their public geospatial data freely and openly available.
Critical Stakeholders	Entire MetroGIS stakeholder community (all data users); All Authoritative Data Producers presently charging fees or requiring licenses for use of and access to their geospatial data;
Priority Level	<b>2nd</b>
Budget	Funding not needed; the research and outreach is conducted in the course of the duties of the staff involved.
Benefit to Stakeholders	Authoritative public geospatial data available without cost or a license agreement required;
Project Owner(s)	Dan Ross, State Geographic Information Systems Officer Randy Knippel, Dakota County GIS Manager/Work Group Chair Len Kne, Co-Chair, MNGAC Outreach Committee Geoff Maas, MetroGIS Coordinator, Researcher
Project Champion(s)	Victoria Reinhardt, Ramsey County Commissioner Debbie Goettel, Hennepin County Commissioner
Project Team(s)	MNGAC Outreach Committee MetroGIS Data Producers Work Group
Expected Timeline	On-going into 2016
Milestones	As of December 2016, twenty (20) counties in Minnesota are making their public geospatial data freely and publicly available without fee or licensure.
Policy Implications	The project precipitates a significant change in existing county policy in Minnesota regarding data availability.
Notes	All seven metropolitan counties adopted free and open data in 2014-2015. Work through 2017 will entail partnering with city-level governments as well as interested agencies and jurisdictions in Greater Minnesota on issues of data policy as well as legal and technical aspects as well as demonstrating the on-going value to governments of free and open data.

### #3 - Address Points Aggregation

Project Brief	The development and documentation of a workflow process and technical solution for the gathering, aggregating and distributing address points as they are created and ready for publication and use.
Critical Stakeholders	All stakeholders needing authoritative address points Addressing Authorities (primarily cities) Data aggregators (County Governments, Metropolitan Council, MnGeo)
Priority Level	<b>3rd</b>
Budget	Staff time and In-kind services of participating agencies; Potential budgetary need if another version (Version 4.0) of the Address Editor Tool is deemed necessary.
Benefit to Stakeholders	Stakeholders will have access to more accurate data for geocoding services. PSAPs will have more accurate and current data with which to dispatch and route emergency vehicles. Cities will be able to track individual units for planning and other purposes and will be able to create mailing labels to individual units/residences, not just to parcels. Metropolitan Council will have better growth monitoring data.
Project Owner	Mark Kotz, Metropolitan Council
Project Champion	(No policy level champion has been identified)
Project Team	MetroGIS Address Work Group Participating interests from the NextGen911 stakeholders
Expected Timeline	Continued work through 2017 and potentially beyond
Key Steps & Milestones	Development of a pilot project plan among the partners (Summer 2015); Initial tasks for testing aggregation (Fall 2015)
Policy Implications	Securing permission for public dissemination of address point data from cities and counties;
Notes:	On-going through 2017 and beyond

## #4 – Metro Regional Centerlines Collaborative

Project Brief	Development of a road data specification to meet specifically expressed business needs and the development and dissemination of a metro-wide road centerline dataset.
Critical Stakeholders	Stakeholders at all levels of government, non-profit sector, private sector and academic interests needing authoritative road centerline data
Priority Level	<b>4th</b>
Budget	Staff time & “in kind” services of participating agencies
Benefit to Stakeholders	Stakeholders will have access to authoritative road centerline data that meets a core set of identified business needs.
Project Owner(s)	Metropolitan County GIS Managers/Coordinators; Hennepin County GIS Office is serving in the role of Project Manager by providing project staff; MetroGIS Staff is providing research/resources as needed
Project Champion	(No project champion has been identified)
Project Team	Metro Road Centerline Collaborative Core Team and Build Team including management and technical staff from all Seven Metropolitan Counties, with support from MESB and Metropolitan Council with advisory participation from MnDOT and MnGeo
Expected Timeline	Begun in May 2014, On-going into 2017
Key Steps & Milestones	Second Build of dataset completed in Fall 2016 Public release of dataset anticipated in early 2017
Policy Implications	Implementation of road data best practices by data producers
Notes:	On-going into 2017

## Priority #5 –Park & Trail Data Standard

Project Brief	The development of a regional data standard for park, trail and recreational lands and an on-going sustainable maintenance model for the creation, proliferation and maintenance of a dataset in the data standard. This data standard and eventual dataset will be developed to meet the business needs of a wide group of stakeholders at all levels of government.
Critical Stakeholders	All stakeholders needing standardized park, trail and recreational land geospatial data for their business needs.
Priority Level	<b>5th</b>
Budget	Staff time & “in kind” services of participating agencies
Benefit to Stakeholders	The development of a data standard and standardized park, trail and recreational land geospatial data for their business needs.
Project Owner(s)	Metro County Managers/Coordinators
Project Champion(s)	(No project champion has been identified)
Project Team	Metro Park and Trail Core and Build Team including management and technical staff from all Seven Metropolitan Counties, with support from the Metropolitan Council, Park and Trail Implementing Agencies in the metro region. MetroGIS staff will serve as liaison to similar efforts taking place at the state agency level.
Expected Timeline	On-going through 2017
Key Steps Milestones	Business Needs gathering sessions in Oct and Nov 2016 including a wide variety of metro regional stakeholders.
Policy Implications	Development and adoption of inter-agency best practices
Notes	This project will be on-going through 2017

## Priority #6 - Support for the Statewide Centerlines Initiative

Project Brief	The Statewide Centerlines Initiative is the development of a public-domain street centerline network to meet a variety of state, regional, county and municipal needs. MetroGIS began the work of developing a solution for the metropolitan counties. As parallel projects at the state agency level have emerged, this provides an opportunity for a larger collaborative effort.
Critical Stakeholders	All stakeholder interests (private, public, non-profit and academic) creating, consuming and using street centerline data in Minnesota.
Priority Level	<b>6th</b>
Budget	Staff time & “in kind” services of participating agencies
Benefit to Stakeholders	Availability of accurate, up-to-date, routable, fully attributed road centerline data is a core state data infrastructure need and will be utilized by local, county, state, regional and federal entities.
Project Owner	Dan Ross, MnGeo
Project Champions	Dan Ross, MnGeo Peter Morey, MnDOT
Project Team	Statewide Centerline Initiative Work Team
Expected Timeline	On-going through 2017
Key Steps Milestones	Completion of MnDOT Business Needs Documentation Refinement and dissemination of toolsets for testing by pilot partners MRCC work to be made available to State Centerline stakeholders
Policy Implications	To be determined
Notes	Work is being led internally to MnDOT on-going through 2017

## Priority #7 – Metro Regional Stormwater Dataset (Research)

Project Brief	The MetroGIS collaborative is exploring the potential of working with a broad group of interested stakeholders toward the development of a Regional Stormwater GIS Dataset. In 2010, a Draft Digital Stormwater Data Exchange Transfer Standard was developed, as well as a pilot project focused on gathering and assessing data in the Ramsey-Washington-Metro Watershed District. This project would build upon past work and existing relationships to assess the fitness of the draft Transfer Standard, and develop a pilot project.
Critical Stakeholders	Any agency desiring stormwater asset data in a standardized geospatial format for mapping, modeling and tracking; these include the Metropolitan Council, watershed districts, metro cities, MnDOT, Metro Mosquito Control, county soil and water conservation services and interested parties in academia, engineering, planning and other disciplines.
Priority Level	<b>7th</b>
Budget	Staff time & “in kind” services of participating agencies
Benefit to Stakeholders	Increasing the understanding of the stormwater coming into their city (from neighboring communities) and leaving it; Facilitating Illicit Discharge Detection and Elimination programs; Assisting with the maintenance and protection of their parks and natural areas which handle stormwater. Simplifying and reducing the of cost their surface water planning and improvement programs; Easing inter-agency interaction regarding the stormwater resource and the stormwater asset data; Assisting in making their MPCA MS4 reporting requirements and their other reporting requirements more efficient; Assisting with the development of their digital infrastructure asset management applications;
Project Owners	Erik Dahl, Environmental Quality Board/MetroGIS Coordinating Committee Chair Geoff Maas, MetroGIS Coordinator
Project Champion	None identified
Project Team	No project team has yet been formed specifically for this initiative.
Timeline	On-going into 2017 as a research and fact-finding initiative;
Key Steps Milestones	Twenty-one (21) stakeholder business cases have been documented and a growing body of research is being developed in support of this dataset.
Policy Implications	Possible legal and policy research may be needed as project matures.
Notes:	At present, no technical work is being performed; MetroGIS Staff is meeting with potential users of a standardized dataset to document their business cases.

## Priority #8 – MetroPlus Free Geocoder

Project Brief	Create a new geocoder / reverse geocoder service using freely available and standardized Address, Parcel and Street data. If possible expand statewide, and make it available for free. This would replace the current Metro Geocoder that is hosted by MnGeo and requires manual data updates.
Critical Stakeholders	Agencies and interests that do not presently have access to a robust geocoder resource to meet their defined business needs
Priority Level	<b>8th</b>
Budget	Staff time & “in kind” services of participating agencies Possible funding requirement for service hosting (Est: \$4000)
Benefit to Stakeholders	Access to a free geocoder resource
Project Owners	Curtis Carlson, NorthStar MLS Nancy Read, Metro Mosquito Control District Carrie Magnuson, Ramsey-Washington Metro Control District Mike Baker, Metropolitan Airports Commission
Project Champion	(No formal project champion has been identified)
Project Team	Curtis Carlson, NorthStar MLS Nancy Read, Metro Mosquito Control District Carrie Magnuson, Ramsey-Washington Metro Control District Mike Baker, Metropolitan Airports Commission
Expected Timeline	Begin work in 2017
Key Steps Milestones	(To be determined)
Policy Implications	None identified
Notes:	(Notes)

## Remaining Project List

The following projects did not meet the requisite criteria for inclusion in active Work Plan projects in calendar 2017. These projects will be revisited in Fall 2017 for potential inclusion in 2018 Work Plan or removed from consideration at the recommendation of the Coordinating Committee.

Remaining Projects	Brief Description
Increase frequency of Parcel Data Updates	<i>Not identified by the Coordinating Committee as a priority in the 2017 Work Plan cycle</i>
Development of Regional Base Map Services	<i>Not identified by the Coordinating Committee as a priority in the 2017 Work Plan cycle</i>

## MetroGIS 2017 Budget as of January 12, 2017;

MetroGIS' core financial support is provided by the Metropolitan Council.

Formal programming for available funds will be decided upon by the Coordinating Committee.

This budget can be amended by actions of either the MetroGIS Coordinating Committee, MetroGIS Policy Board or the Information Services Department of the Metropolitan Council.

2017 Ranking	Project/Expense	2017	2016	2015	2014	2013	2012
	<b>MetroGIS Budget Allotment</b>	<b>86,000</b>	<b>86,000</b>	<b>86,000</b>	<b>111,000</b>	<b>86,000</b>	<b>86,000</b>
*	Metro Counties/MetCouncil MOA Data Contract	28,000	28,000	28,000	28,000	28,000	28,000
*	MetroGIS Website Kentico CMS Upgrades (V 8.0)	2,800	(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
*	MetroGIS Misc. Expenses (a) - Allotted	2,000	2,000	2,000	4,500	4,500	4,500
*	MetroGIS Misc. Expenses - Total Spent		328	1,897	113	775	2,990
1	Support for the Geospatial Commons		14,110	0	14,000	(n/a)	(n/a)
2	Free + Open Public Geospatial Data Initiative		0	0	0	0	(n/a)
3	Address Points Aggregation		0	0	0	0	0
4	Metro Regional Centerlines Collaborative		0	0	0	(n/a)	(n/a)
5	Park & Trail Dataset & Data Standard		(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
6	Statewide Centerlines Initiative (MnDOT/MnGeo)		0	0	0	0	0
7	Regional Stormwater Research Initiative	8,000	0	0	0	0	(n/a)
8	MetroPlus Free Geocoder Project		(n/a)	(n/a)	(n/a)	(n/a)	(n/a)
*	Metro Address Editor Tool Enhancements	(n/a)	0	5,680	0	20,080	13,760
*	Historic Aerial Imagery Mosaic & Archive Project	(n/a)	4,775	(n/a)	(n/a)	(n/a)	(n/a)
*	2016 Aerial Imagery Coordination	(n/a)	0	(n/a)	(n/a)	(n/a)	(n/a)
*	New MetroGIS Website	(n/a)	(n/a)	(n/a)	59,995	25,000(b)	(n/a)
	<b>Committed/Spent</b>	<b>40,800</b>	<b>47,213</b>	<b>35,577</b>	<b>102,108</b>	<b>48,855</b>	<b>44,750</b>
	<b>Remaining/Unspent/Unused</b>	<b>45,200</b>	<b>38,787</b>	<b>50,423</b>	<b>8,892</b>	<b>37,145</b>	<b>41,250</b>

(a) This is earmarked each year, not contractually committed;

This includes books, website domain renewals, software purchases, printing, specially ordered office supplies, etc.

(b) Budgeted but unspent in 2013; allowed to be carried over to 2014 to be used for the new MetroGIS website project

## Appendix A: Project Prioritization Methodology

This appendix describes the process used to identify and prioritize MetroGIS Work Plan items. It is designed to assess three important criteria:

- Value of projects to MetroGIS stakeholders
- Likelihood of project success
- Collective wisdom of the MetroGIS Coordinating Committee

### Project Prioritization Steps

#### Task 1 - Create a list of proposed projects

A - Provide a list of all previously proposed projects to the CC and ask for any additions.

B - Create a final list of proposed projects.

#### Task 2 - Assess the value of each project (via web survey to CC members) Questions:

A - For most projects that help stakeholders directly (e.g. address points): **“How great is your organization’s business need for the results of this project?”**

- i. High
- ii. Medium
- iii. Low
- iv. No business need

B - For MetroGIS specific items determine the answer to the following:

**“For MetroGIS to function effectively, serve its stakeholders and support its mission, how great is MetroGIS’s need to complete this project?”**

- v. High
- vi. Medium
- vii. Low
- viii. Not needed

C - A few additional questions will be asked (e.g. your name, are you willing to be project owner? Part of project work team?)

### Task 3 - Assess likelihood of success of each project

- A - Follow up with involved stakeholders to assess key factors related to likelihood of success
- ix. What is estimated effort to complete project? (person/hour categories)
  - x. Is funding required? If so, is it available?
  - xi. Does a committed project owner exist?
  - xii. Does a committed project team exist (if needed)?
  - xiii. Does an active, high-level project champion exist (if needed)?

### Task 4 - Calculate preliminary priorities based on results (See spreadsheet)

A - Create a magic prioritization spreadsheet to calculate scores and create preliminary priorities.

B - Notes on methodology

- xiv. Roles and funding: exist = 2, iff = 1, doesn't exist = 0
- xv. Project owners: exist = 3, iff = 1, doesn't exist = 0
- xvi. Effort level in person/hours, including all team members, meetings, etc, but not including time paid via a budget (e.g. paid vendor).
  - 1. Low (Easy score = 3): 1 – 100
  - 2. Medium (Easy score = 2) 100-200
  - 3. High (Easy score = 1) 200+
- xvii. Likelihood of success score = sum of above scores
- xviii. Value score = sum of all responses from survey to CC members
  - 1. High need = 3
  - 2. Medium need = 2
  - 3. Low need = 1
  - 4. No need = 0
- xix. Priority Score = Value score multiplied by Success score

### Task 5 - Coordinating Committee Adjusts the Priority Rank

- A - At CC meeting show the spreadsheet & get corroboration from CC (any errors?)
- B - Priority rank will initially be the same as priority score
- C - CC can then discuss and adjust priority rankings if desired based on other factors (group wisdom)
- D - CC should also decide which projects to completely remove from the work plan.
- E - Where a project is important, but missing roles or funding, CC could re-evaluate in the future.