

Geospatial Data Cooperation in the Minneapolis-St Paul Metropolitan Region

MetroGIS







Seven Brief Points

- 1) What is MetroGIS?
- 2) Minneapolis-St Paul region
- 3) Metropolitan Council
- 4) Origin of/Reason for MetroGIS
- 5) Recent Successes
- 6) Challenges
- 7) Benefits



1) What is MetroGIS?



A voluntary collaborative of interests...

- Governments at all levels
- Academia
- Non-Profit Organizations
- Private Sector



...who produce, consume and share GIS data in the Minneapolis-St Paul Metropolitan Region

Focus on:

- > Shared problems
- > Business needs of the partners
- > Maximizing agency investment in GIS by working together

2) Minneapolis-St. Paul Metropolitan Region

Cook



7 Counties: 3.2 Million People 54% of Minnesota's population 16,483 sq. km (6,364 sq. mi.)

16th Largest Urban Area in the U.S.

182 municipal units

4 regional government agencies

- Metropolitan Council
- Metro Emergency Services Board
- Metro Mosquito Control District
- Metropolitan Airports Commission

Numerous **State** and **Federal** government agencies

3) Metropolitan Council



Created by the State Legislature in 1967

Public Transportation

- Bus network
- Bus Rapid Transit/Express Bus
- Light Rail System

Wastewater Treatment

Water Supply Coordination

Regional Planning

- Urban Growth Boundary
- Infrastructure planning

Affordable Housing Programs

Regional Park and Trail System

Metropolitan Planning Organization functions

(receivership of Federal funds for transportation)



3) Metropolitan Council



For MetroGIS:

Since 1996, the **Metropolitan Council** *has provided:*

- Financial backing for the collaborative (annual budget);
- Administrative oversight of its operation;
- 1 full-time staff person and resources;

The Metropolitan Council is a *key stakeholder* and a *major beneficiary* of MetroGIS;

4) Origin of Metro-level data collaboration

Series of meetings in Winter 1994-95

Shared data needs at various levels of government



Standardize the parcel data!



MetCouncil funded Carver & Anoka Counties to complete their digital cadastres;

7 Metro Counties agree to allow the use of their data by governments and academia with a license agreement (for no fee)'



4) Origin of Metro-level data collaboration

Joint purchase and sharing of aerial imagery (\$6,000,000 in mid-1990s);

Itemize the full set of desired/needed datasets;

Begin developing data standards;

metrogis.org About MetroGIS >> **History and Development** <u>http://metrogis.org/about-metrogis/history-development.aspx</u>







or syme or index only since its origin in 1995 as a concept, several hu organizations have been involved in the decision progenizations have been involved in the decision making process to shape the Neurocitic Solabaro These interests include counties, critice, regions take, and forderal approvides organization districts; non-profit groups; private organization

A broad, on-going, inclusive and participatory process was used to achieve consensus on a variety of matters critical to the success of NetroCCS, isolating development of a mission statement, priority functions and priority common business information needs.



serve the Twin Cities Metropolitan Region was suggested in 1995 by the Metropolitan Council. The Metropolitan Council is granted authority by the

> ota Sante Legislatarie to manage public tratterian and nestimateri tratement a well as ing regional patienting, freecasting pupplation ing a regional patienting, freecasting pupplation ing a regional patient actas system in the beforegointen Countes. These responsibilities for the meet to develop and have geopostalial toos a she metrogointan region, however, there to be a substration durins in performed as a site of the meet to develop and have geopostalial toos a she metrogointan region, however, there as a effort, the need to improve the accuracy of a data and the original improvide for data

Execution of agreement between Metropolitain Council and NCompai Technologies for use and licensing NCompass Technologies Street Centerlise Data to government and academic interests.

Address Point Editor Tool

- > Creation
- > Aggregation
- > Standardization of address points

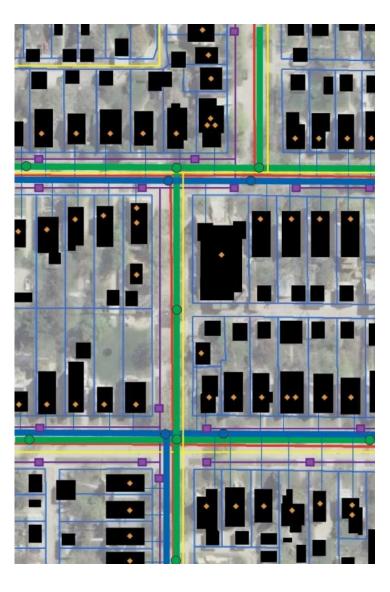
Cities:

Authoritative source

<u>Counties:</u> Aggregate and validate

Metropolitan Council:

Paid for the tool & publishes data





Metro Road Centerline Collaborative

Goals:

- > From the *Authoritative Source*
- > Support Routing & Geocoding
- > Support Linear Referencing System
- > Meet needs of *Emergency Services sector*
- > Freely and publicly available

Data producers and data consumers working together





Metro Road Centerline Collaborative

Vendor data contract ending in 2015

2014:

Document the various business needs; Developed data standard;

2015:

Test, review and revise the standard 'First build' – Summer 2015



About MetroGIS

ow Do I Get 3

- Next Generation 911 call routing and location
- P Emergency services dispatching
- Support of linear referencing system use;
- Cartographic representation of road features



Publications Contact Cale

Downloads & Survey

Thanks for your input The MRCC Project Team solicited

comment on the draft data standard from February 27 through April 3, 2015 from the statewide community of road data consumers.

A report with stakeholder cos ideas and critique is available in the links below. The sample data and documentation remain available a

load the Sample Da

MRCC Project Summary E (6 page PDF Docume Draft MRCC Local Road

Data Model Document

Provide Feedback (via en

Survey Results Docu

wnload the MRCC Stakeholde Feedback Report

- assigned and theoretical ranges)

Joint Agency Aerial Imagery Collection: 2016

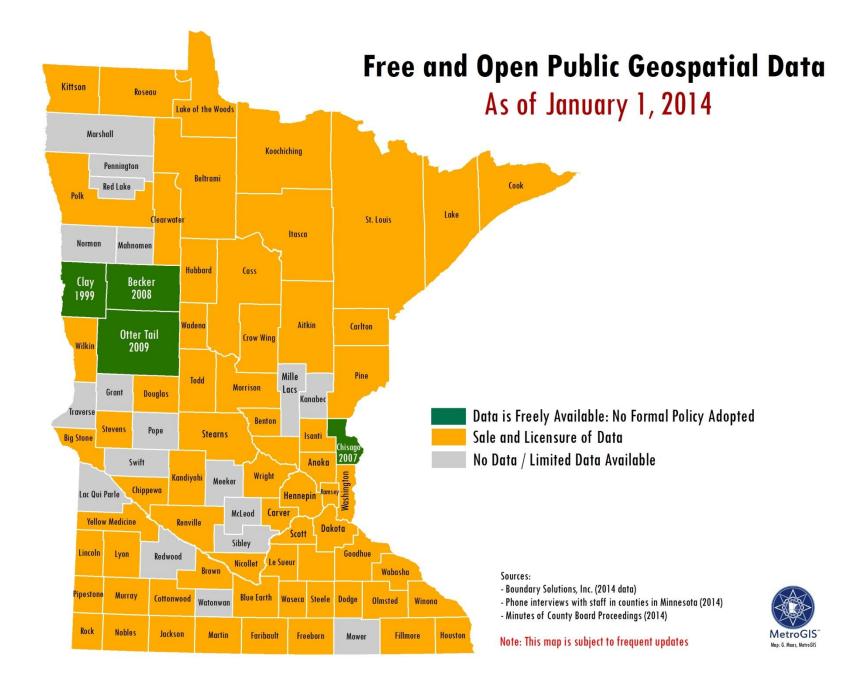
Metropolitan Council: Spring 2016 (leaf off)

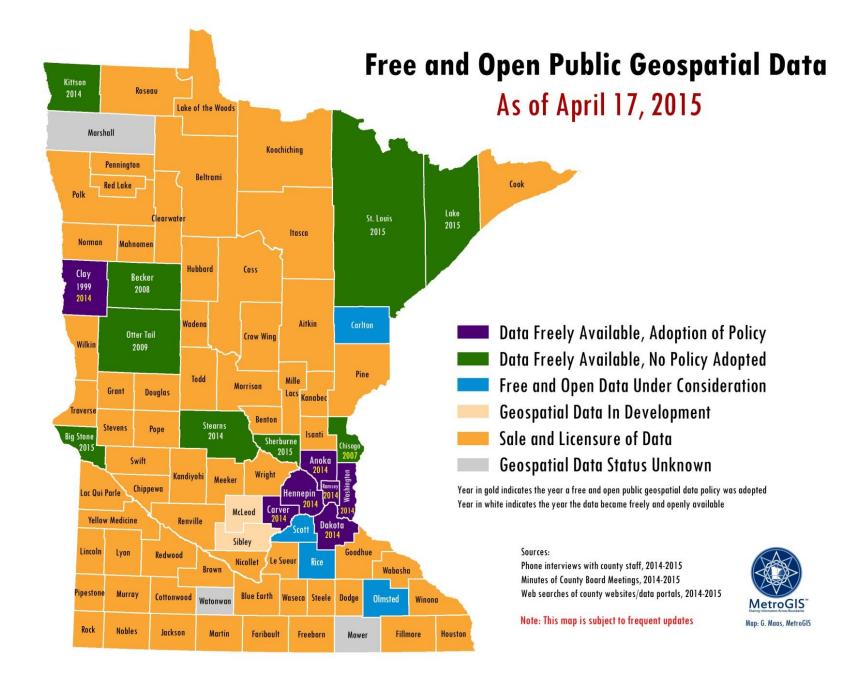
Partner with: Minnesota Department of Natural Resources Seven Metropolitan Counties Metropolitan Mosquito Control Board U.S. Geological Survey

Free + Open Data Policy Adoption

Ramsey County Hennepin County Dakota County Carver County Anoka County City of Minneapolis Washington County **Scott County**

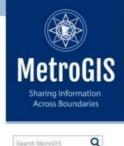
February 11, 2014 February 11, 2014 March 25, 2014 **April 1, 2014** April 22, 2014 July 30, 2014 November 18, 2014 (Expected mid-2015)





Free + Open **Geospatial Data** Research Available...

Google Why MetroGIS Matters Affiliations Archives "MetroGIS free and open data"



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Get Data How Do I Get ...?

Projects

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Work Plan & Budget

Statewide Centerlines

Address Point Aggregation

Public-Private Data Sharing

Free + Open Data

Address Point Editor

Teams + Governance

Stormsewers

Free and Open Data Research

The MetroGIS Data Producers Work Group and Policy Board have been actively engaged in research, deliberation and review of the benefits of freely and openly available public geospatial data in the Seven County Metropolitan region.

The following resource materials, research and articles have been prepared and assembled over the course of 2013 in service of that discussion.



On October 23, 2013, the MetroGIS Policy Board adopted a Resolution of Support for Free and Open Public Geospatial Data and are advancing their recommendation and supporting research to the governments in the Seven County Metropolitan region.

MetroGIS Documents and Research

Single-Page Fact Sheet on Free and Open Geospatial Data

MetroCIS: Free & Open Access to Data: Research & **Reference Documents**

MetroGIS Policy Board Resolution of Support for Free and Open Public Geospatial Data

Sample Resolution Resource Document for City and **County Governments**

Sample Letter of Support from MetroGIS Policy Board Chair to County Board Chairs and County Administrators

Articles and Publications

NSGIC: Geospatial Data Sharing Guidelines for Best Practices

NSGIC: This Isn't Private Information

NSGIC: Economic Studies for GIS Operations

Brian Timoney: The Flawed Economics of Closed **Government Data**

Metro County Policy Resolutions

Ramsey County, February 11, 2014

Hennepin County, February 11, 2014

Dakota County, March 25, 2014

Carver County, April 1, 2014

Anoka County, April 22, 2014

Presentations

Free and Open Data: History and Recap of the Issue - Randy Knippel, Dakota County Free and Open Data: Context - Geoff Maas, MetroGIS

www.metrogis.org/projects/free-open-data.aspx

6) Challenges



1) Challenge in finding 'champions' for specific initiatives; Consistent, on-going support from senior agency management is crucial;

2) Volunteer organization: *limited resources & engagement; Limited and varying personnel capacity for efficient execution of projects;*

3) Multi-agency nature of the work = slower process; Multi-agency efforts, while more <u>thorough</u>, are more <u>time consuming</u>;

4) Inter-agency fiscal arrangements are challenging Government accounting and procurement aren't set up for inter-agency work

5) Limited capacity to address all the needs; *Constant need to prioritize most urgent/most needed*

7) Benefits

#1) Relationships & professional network;

#2) Trust between agencies and individuals;

#3) Cost savings to the taxpayer; Maximizing efficiencies of shared work;

#4) Eliminates redundant work;

#5) Forum for participation of smaller agencies;



Thank you!

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