Presentation to:

NORTHWESTERN ONTARIO INNOVATION CENTRE

Thunder Bay, Ontario, Canada

Geospatial Data Cooperation in the Minneapolis-St Paul Metropolitan Region

MetroGIS

METROPOLITAN COUNCIL

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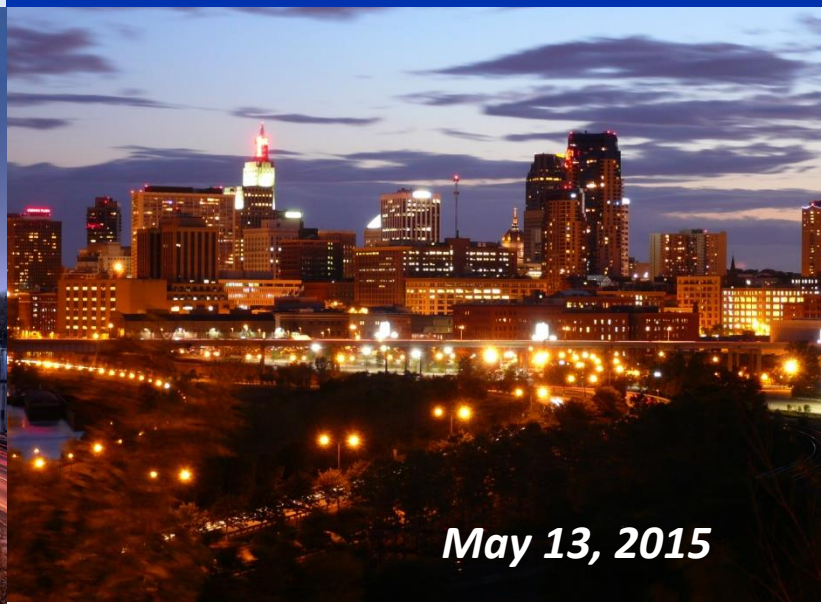

May 13, 2015

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

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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

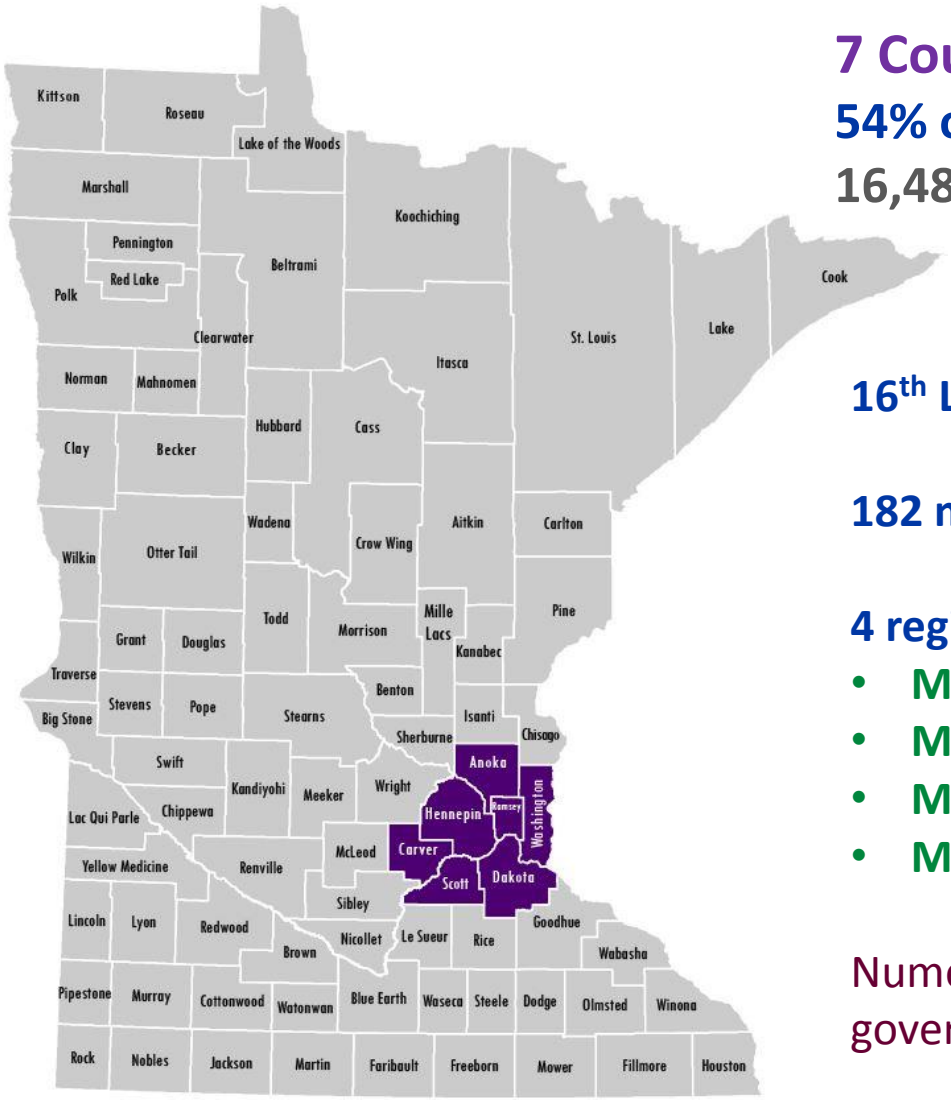
Focus on:

> Shared problems

> Business needs of the partners

> Maximizing agency investment in GIS *by working together*

2) Minneapolis-St. Paul Metropolitan Region



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;**

Engage elected officials on the importance of investing in GIS data;

metrogis.org

About MetroGIS >> History and Development

http://metrogis.org/about-metrogis/history-development.aspx

5) Current Projects + Recent Successes

Address Point Editor Tool

> Creation

> Aggregation

> Standardization of address points

Cities:

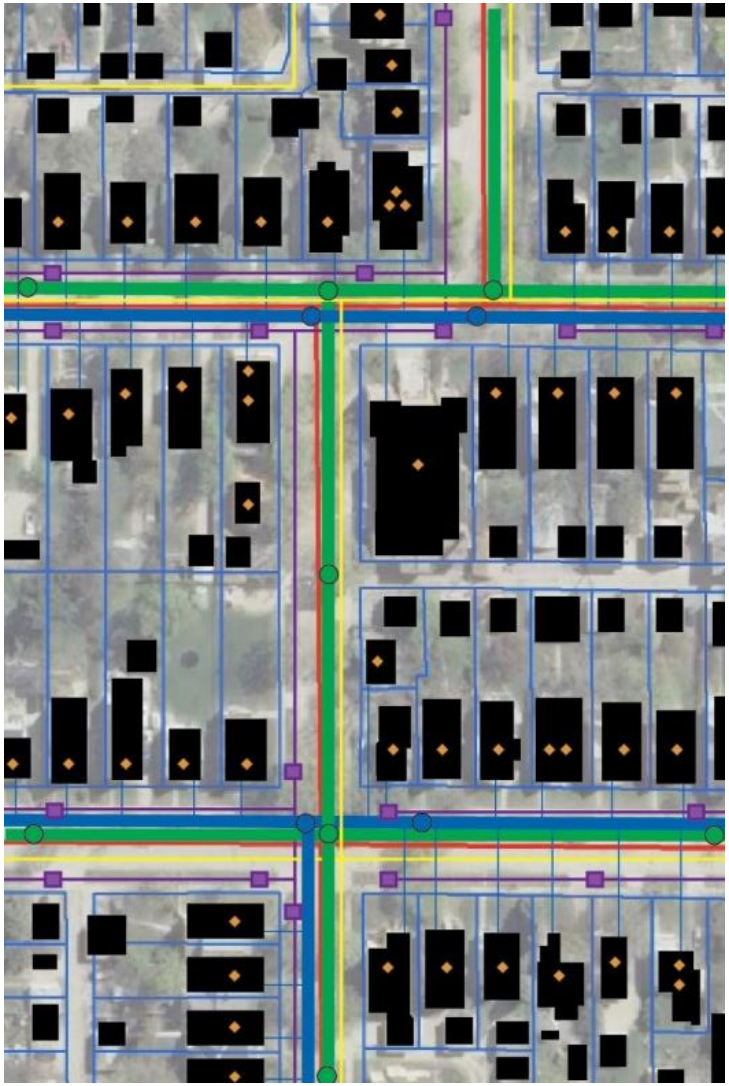
Authoritative source

Counties:

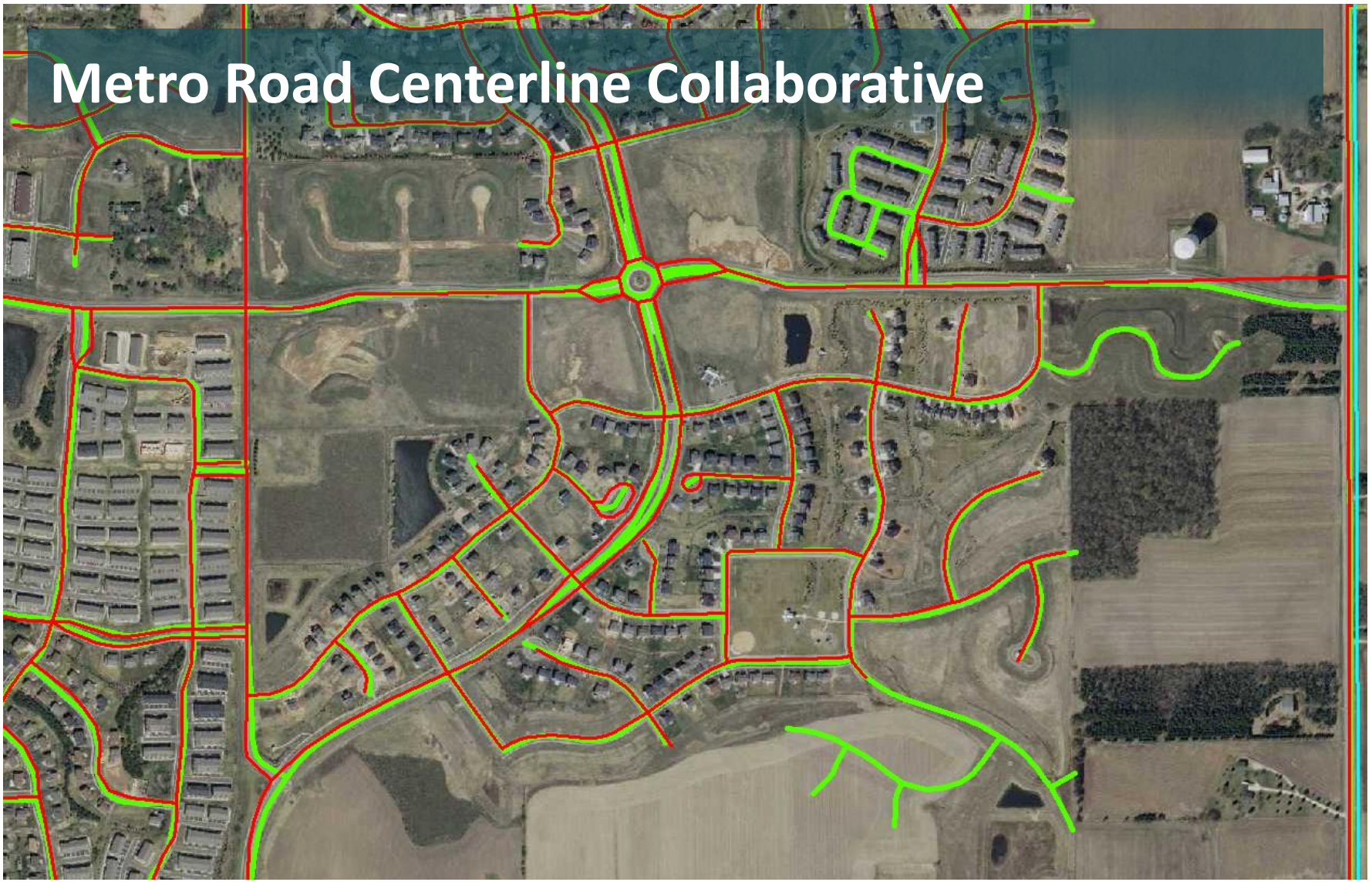
Aggregate and validate

Metropolitan Council:

Paid for the tool & publishes data



5) Current Projects + Recent Successes



5) Current Projects + Recent Successes

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**

5) Current Projects + Recent Successes

Metro Road Centerline Collaborative

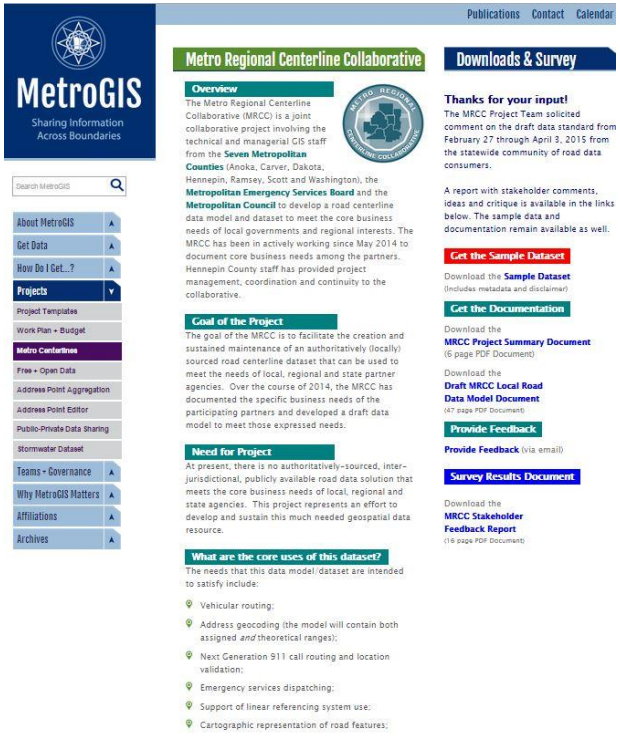
Vendor data contract ending in 2015

2014:

Document the various business needs;
Developed data standard;

2015:

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



5) Current Projects + Recent Successes

Joint Agency Aerial Imagery Collection: 2016

Metropolitan Council: Spring 2016 (leaf off)

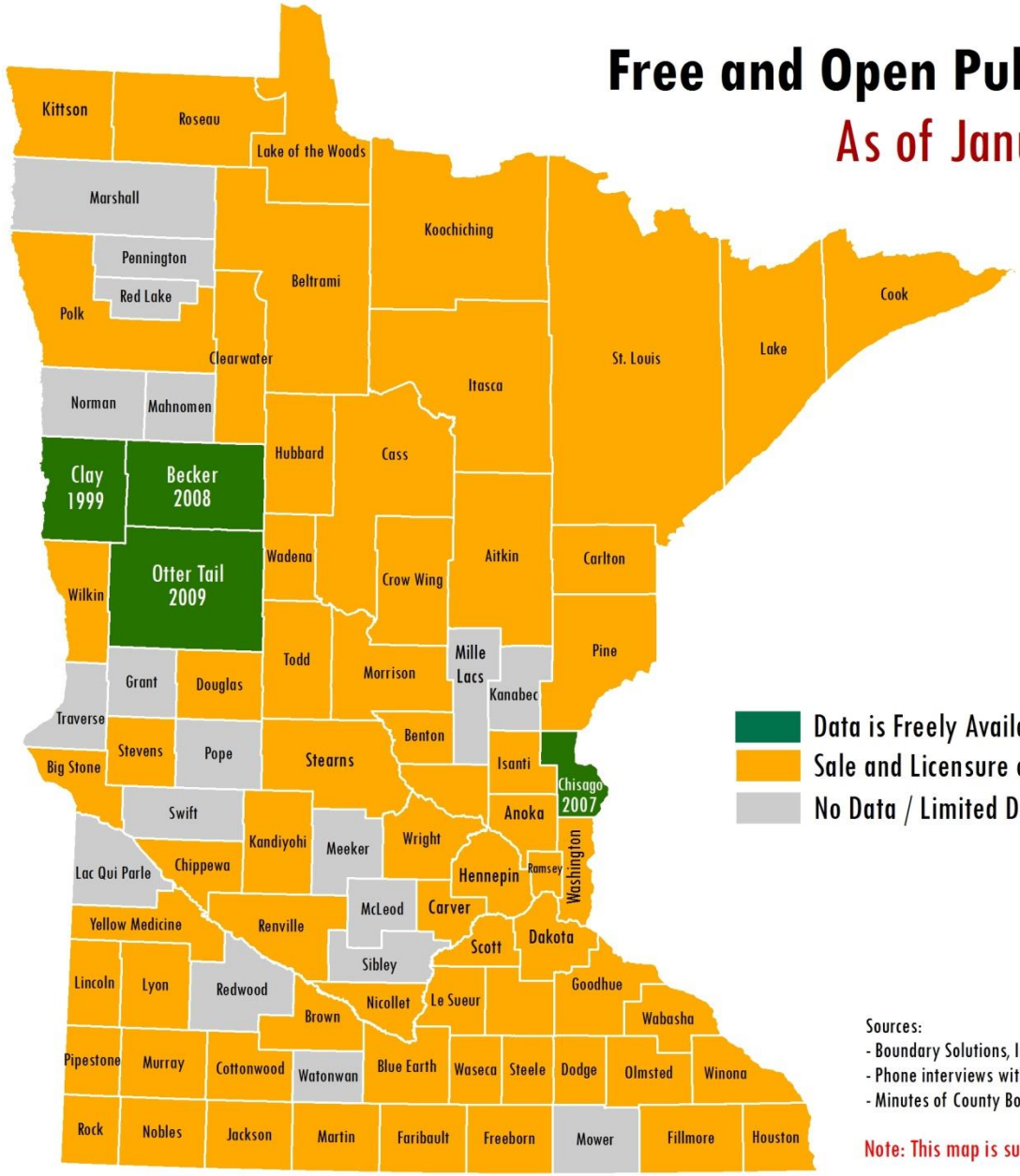
5) Current Projects + Recent Successes

Free + Open Data Policy Adoption

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**
City of Minneapolis	**July 30, 2014**
Washington County	**November 18, 2014**
Scott County	*(Expected mid-2015)*

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

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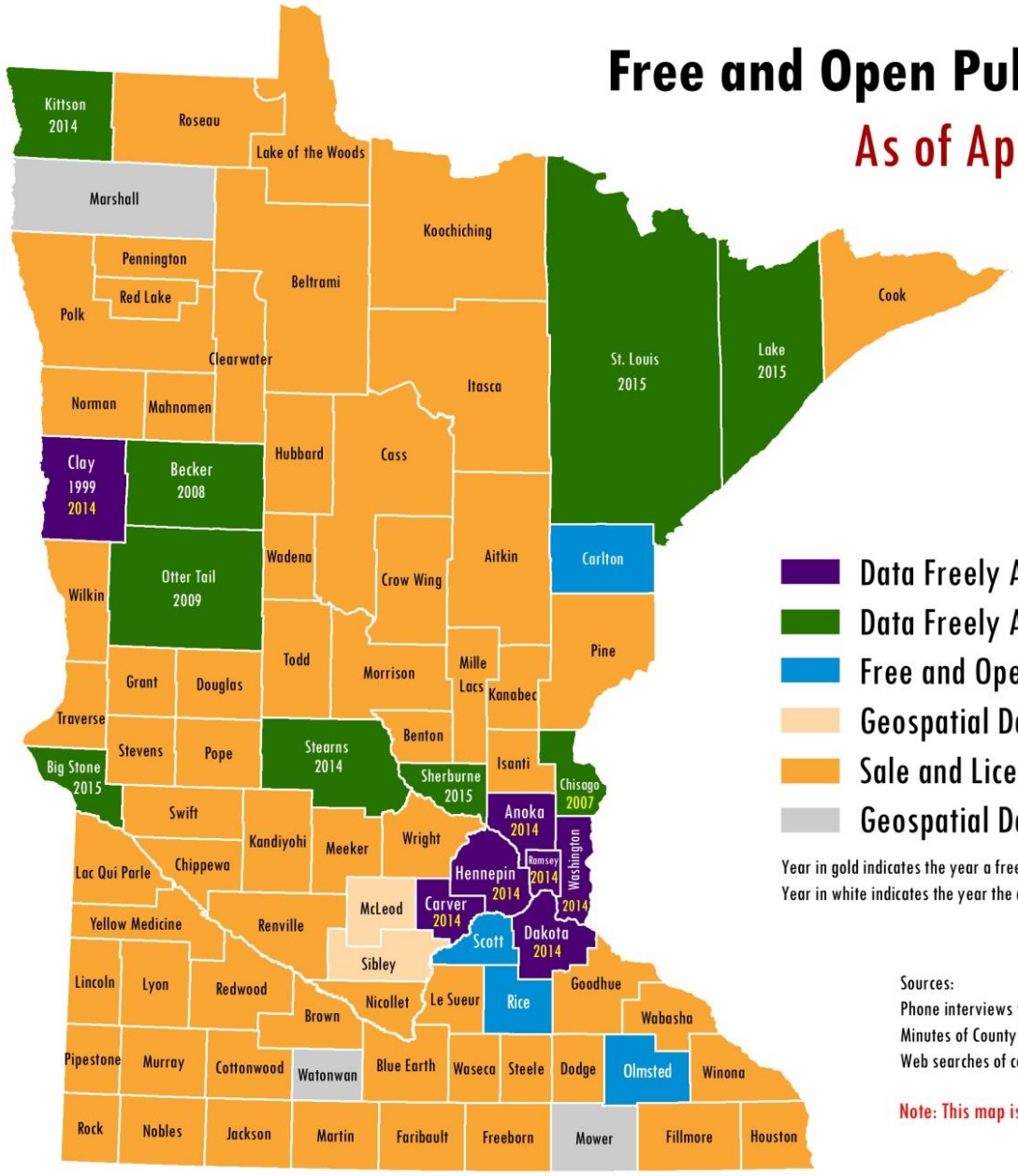
Map: G. Maas, MetroGIS

Free and Open Public Geospatial Data

As of April 17, 2015



- Data Freely Available, Adoption of Policy
- Data Freely Available, No Policy Adopted
- Free and Open Data Under Consideration
- Geospatial Data In Development
- Sale and Licensure of Data
- Geospatial Data Status Unknown

Year in gold indicates the year a free and open public geospatial data policy was adopted
Year in white indicates the year the data became freely and openly available

Sources:
Phone interviews with county staff, 2014-2015
Minutes of County Board Meetings, 2014-2015
Web searches of county websites/data portals, 2014-2015

Note: This map is subject to frequent updates

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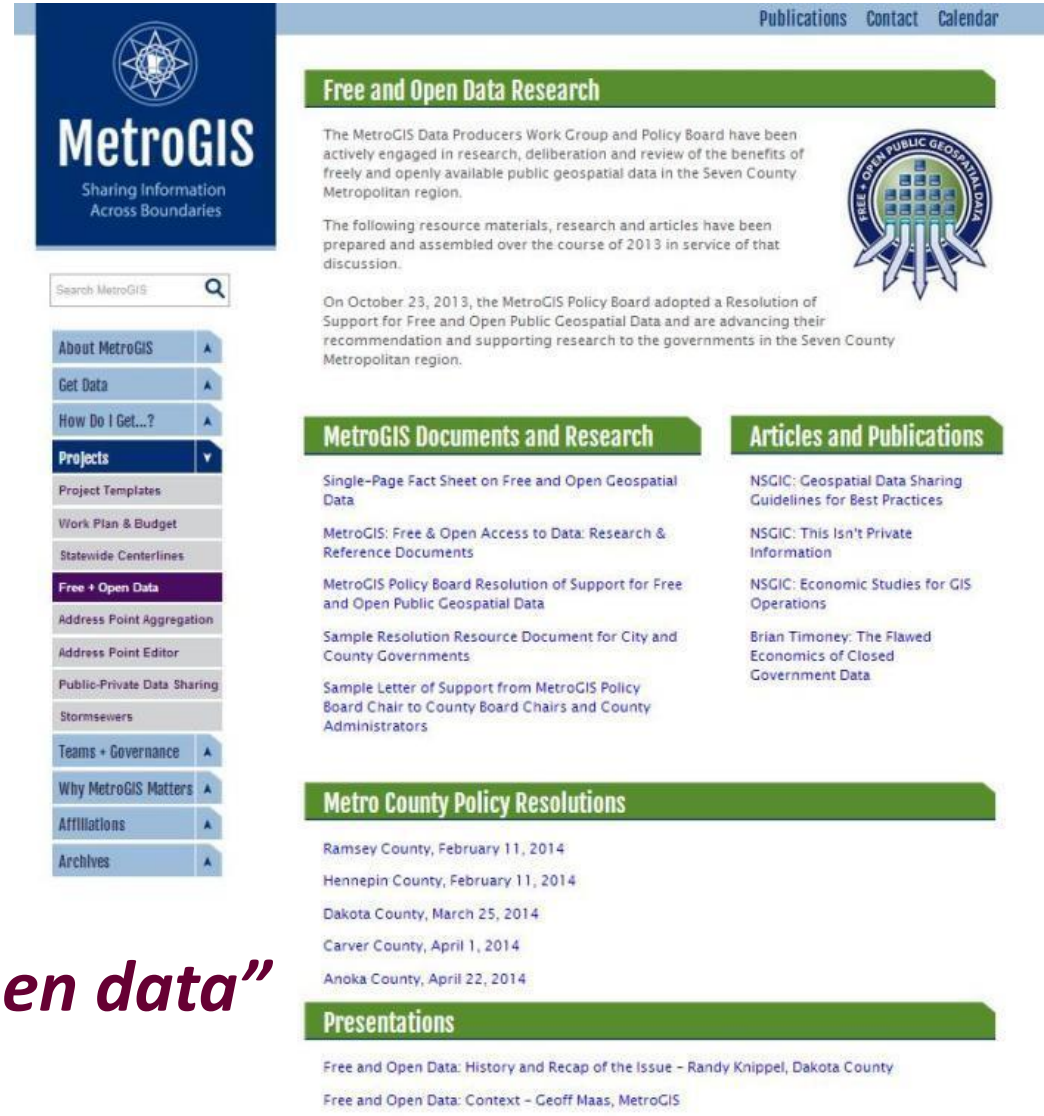
Sharing Information Across Boundaries

Map: G. Maas, MetroGIS

Free + Open Geospatial Data Research Available…



Google

"MetroGIS free and open data"

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 thorough, are more time consuming;

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;**

NORTHWESTERN ONTARIO INNOVATION CENTRE

Thank you!

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