



# MN2050 'State of the Infrastructure'

## LWC Presentation

*December 14, 2016*

**John Maczko, Civil Engineer – Mn2050**

# MN2050



- **MN2050 Overview**

- Goal:

- Maintain and Improve Economic Development, Safety and the Quality of Life in Minnesota

- Who We Are:

- 10, 000 Infrastructure Professionals
    - 18 Engineering and Infrastructure Partner Organizations

- Audience:

- The Public, Professionals and Policy Makers

# MN2050



- **Asset Management 101:**

- Purpose:

- To optimize the life of facilities to assure they perform their function at the most efficient and responsible cost
    - To eliminate, or greatly reduce, costly emergency repairs or replacement
    - To assure limited resources are spent where they are most needed

# MN2050



- **Asset Management 101:**

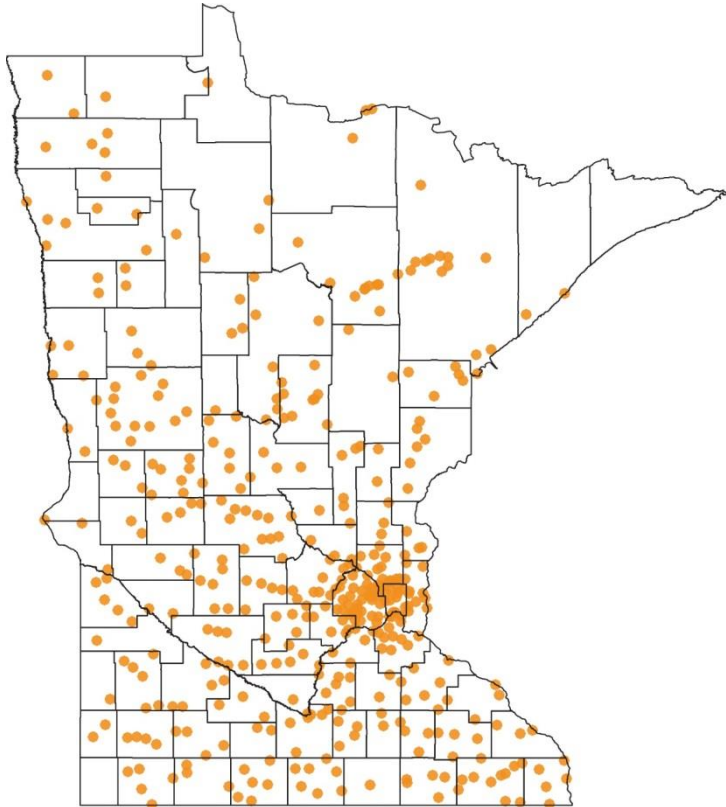
- How/Why:

- Identify all assets and their critical characteristics (Age, condition, material, size, value, etc)
    - Produce useful - fact based reports that aid owners in the management of the asset
    - Identify short, mid and long term funding needs to aid in maintaining the system
    - Build trust with the public and leadership we serve with Good and accurate data

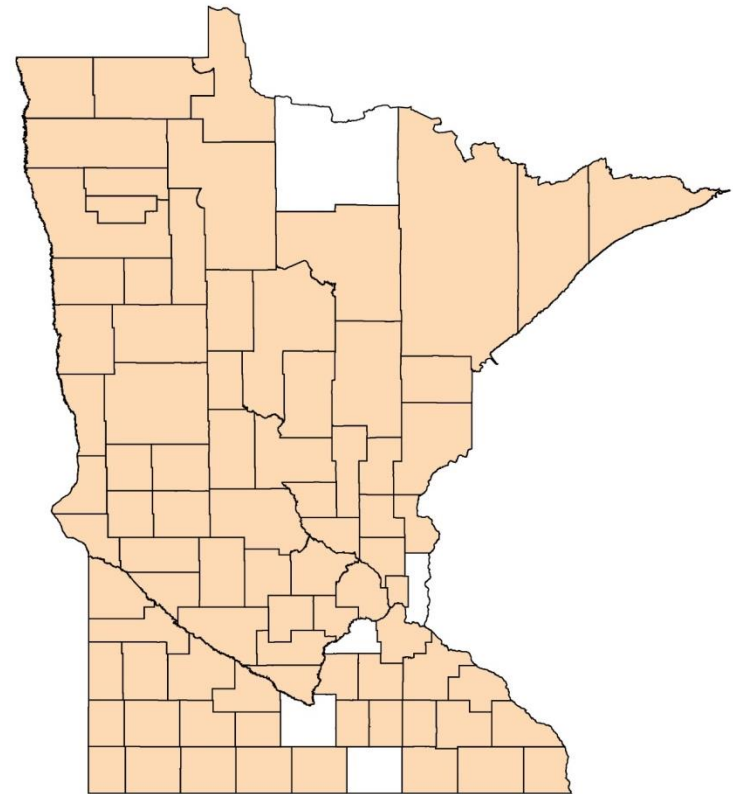
# State of the Infrastructure



- Survey Participation



**Cities: 445**



**Counties: 82 (+MnDOT, MC)**

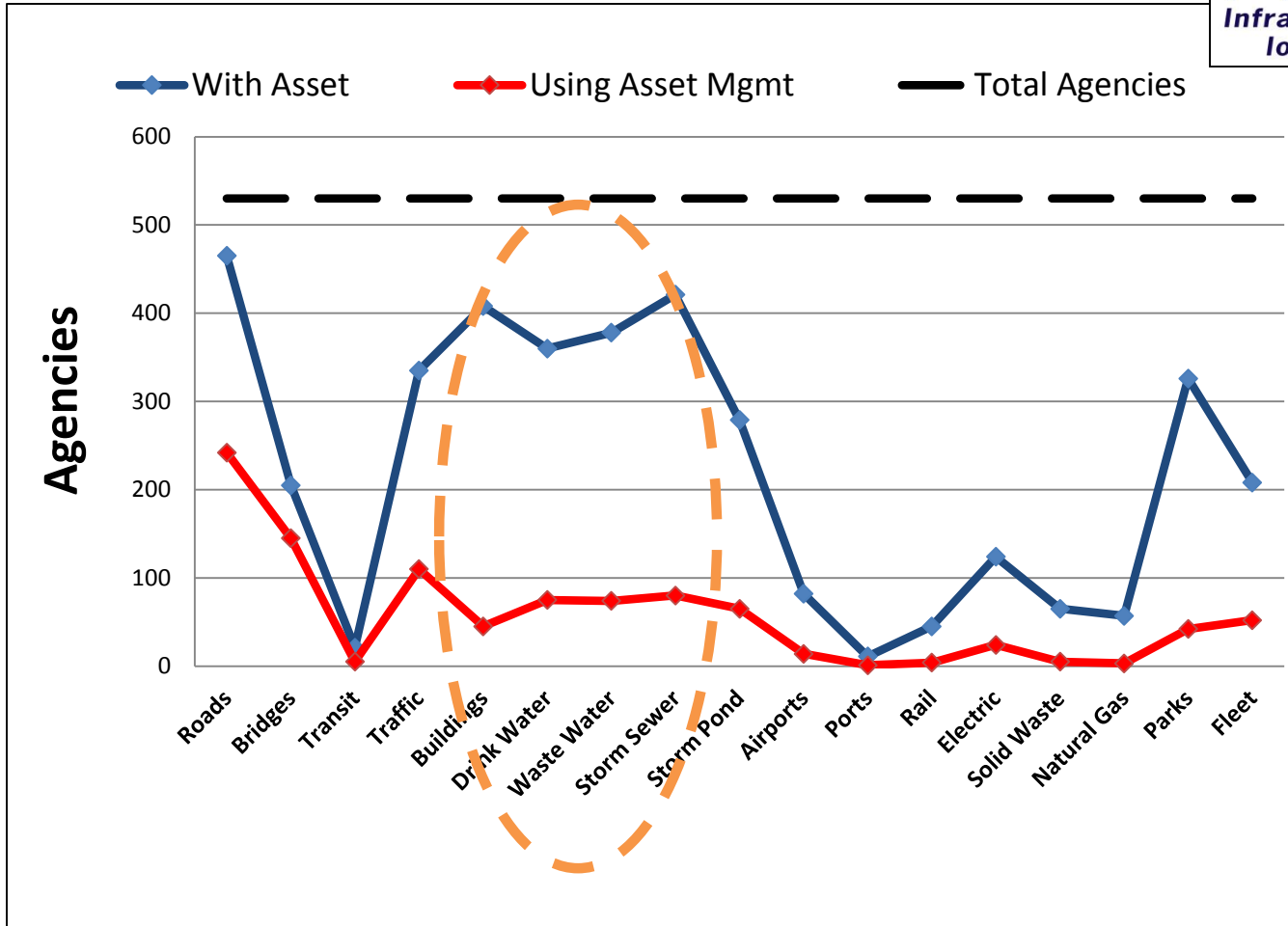
# Assets Managed



## Assets Managed by Cities, Counties and State Agencies

	Assets Managed	Road	Bridge	Transit	Traffic	Buildings	Drink Water	Waste Water	Storm Sewer	Storm Pond	Airports	Ports	Railways	Electrical	Solid Waste	Natural Gas	Total
Small Cities	14	97	11	1	55	71	92	92	89	54	15	0	7	18	5	9	616
Large Cities	15	187	88	4	112	109	128	139	137	133	19	2	9	54	9	7	1137
Counties	14	132	99	4	64	45	7	5	36	18	8	0	4	4	18	3	447
State Agencies	7	9	3	0	3	7	0	4	2	2	0	0	0	0	0	0	30
Totals =		425	201	9	234	232	227	240	264	207	42	2	20	76	32	19	2230

# Asset Management Use



# Survey Comments



- **Asset Management Impediments:**
  - Limited staff, skills and budget
  - No standard practices, systems or training so each organization re-learns on its own
  - Can be very expensive to set up
  - Our infrastructure is old (over 60 years) and our records are poor
  - We do things ‘old school’
  - We are a ‘very small town/county’ population



# MN2050 Recommendation



- Consider funding asset management statewide for water infrastructure.
- Implement standard characteristics to measure
- Consider creating one statewide repository for the information



# MN2050 'State of the Infrastructure'

## LWC Presentation

*December 14, 2016*

**John Maczko, Civil Engineer – Mn2050**