



# MN2050 Update

Brad Henry, MN2050

# State of the Infrastructure



- 2015 MN2050 Survey:
  - Who: Cities, Counties, Met Council/MnDOT
  - Cities: 35 and 70% responded, Thank You!
  - Results - [MN2050.org/survey](http://MN2050.org/survey)
- 2016 MN2050 Survey:
  - **Feb 16**
  - Respond: Survey, Summary, Steering committee
  - Message: Public, Politicians, Professionals

# 2015 MN2050 Survey



- Assets Managed:

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



# MN2050 Survey



- Asset Values:
  - Road (Per Capita): \$5892, \$2879, \$5070, \$5380

Asset management practices of jurisdictions in Minnesota by infrastructure type

Shadingkey: Green = 50% + Orange = 25% - 49% Pink = 0% - 24%

Asset	Jurisdiction	# of this type of jurisdiction who answered this question	# who have this type of asset	Of those who have this type of asset...		
				% with asset	Asset is mapped	Know value of asset
	Smaller cities	88	88	100%	67%	5%
	Larger cities	98	98	100%	99%	24%
	Counties	60	60	100%	88%	29%
	<p><u>\$33,772,624,842</u> is the total value added up from the 34 respondents who answered this question; the per capita value of the roads is <u>\$5,892</u> for smaller cities, <u>\$2,879</u> for larger cities, <u>\$5,070</u> for counties, and <u>\$5,380</u> for state agencies in MN.</p>					
	Smaller cities	88	14	16%	50%	8%
	Larger cities	98	62	63%	79%	7%
	Counties	60	60	100%	84%	22%
	<p><u>\$6,795,864,702</u> is the total value added up from the 16 respondents who answered this question; the per capita value of the bridges is <u>\$1,626</u> for smaller cities, <u>\$221</u> for larger cities, <u>\$267</u> for counties, and <u>\$1,209</u> for state agencies in MN.</p>					
Transit lines	Smaller cities	88	1	1%	0%	0%

# Asset Mgmt Systems Used



Systems Used by Cities, Counties and State Agencies																
	Road	Bridge	Transit	Traffic	Buildings	Drink Water	Waste Water	Storm Sewer	Storm Pond	Airports	Ports	Railways	Electrical	Solid Waste	Natural Gas	Total
No asset management system	52	24	4	64	85	44	47	62	51	6	2	15	14	10	12	492
MS Excel	102	37	1	37	42	57	56	55	40	14	0	0	18	5	2	466
ESRI GIS database	66	21	2	31	21	0	50	54	54	7	0	2	16	4	1	329
Pencil and paper	53	28	1	34	51	31	37	38	20	8	0	0	11	9	2	323
Other system	22	9	0	10	13	9	11	13	10	4	0	0	6	2	1	110
Cartograph	24	5	0	14	2	13	14	15	12	0	0	0	1	0	0	100
Icon	33	3	0	7	0	49	1	2	1	0	0	0	0	0	0	96
MnDOT SIMS	18	59	1	1	0	0	0	0	0	0	0	1	1	0	0	81
Simple Signs	15	2	0	15	0	0	0	0	0	0	0	1	1	0	0	34
CityWorks	3	0	0	3	2	5	4	5	3	0	0	1	2	0	1	29
Other	5	4	0	2	2	3	1	4	3	2	0	0	2	0	0	28
PubWorks	3	1	0	2	2	1	1	2	1	0	0	0	0	2	0	15
CAD/AutoCAD	4	1	0	0	0	2	2	3	1	0	0	0	2	0	0	15
City Services	2	0	0	1	0	3	4	1	1	0	0	0	1	0	0	13
MapFeeder	2	1	0	1	1	2	2	1	1	0	0	0	1	0	0	12
InfraSeek	3	0	0	1	1	2	2	1	1	0	0	0	0	0	0	11
Element FX	1	1	0	1	0	1	2	2	1	0	0	0	0	0	0	9
Oracle	1	0	0	1	1	0	2	1	1	0	0	0	0	0	0	7
Element XS	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	7
Beehive	1	0	1	1	0	1	1	1	1	0	0	0	0	0	0	6
Other GIS system	1	0	0	2	1	0	0	0	1	1	0	0	0	0	0	6
VueWorks	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	4
Archibus	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	4
Access database	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	4
Pontis	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Arc View	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	4
Infor EAM	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	3
Dbase	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	3
SWAMP	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	3
Agile Assets	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
Maximo	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
PASER	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mpower Innovations	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
RTVision	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Road Pro	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
IMaint	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Famis	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Laserfiche	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
<b>Totals =</b>	<b>425</b>	<b>201</b>	<b>9</b>	<b>234</b>	<b>232</b>	<b>227</b>	<b>240</b>	<b>264</b>	<b>207</b>	<b>42</b>	<b>2</b>	<b>20</b>	<b>76</b>	<b>32</b>	<b>19</b>	<b>2230</b>



# State of the Infrastructure



- Synergy:
  - Low cost, easy to use: Survey, Rural Water Assn
  - Smart City project: Interactive map
  - ASCE utility specs: Existing and new (3D)
  - Carver County: Shared position, LRRB - TAMP
  - County-wide: Asset mgmt 'peer exchange'
  - Cities, counties and U of M: New systems
  - Permits: Certified plan
  - *Etc*