CEAM Annual Conference - update

- Jeff Oliver, City Engineer, Golden Valley, MN2050 representative
- Tom Eggum, MN2050 Steering Committee
Purpose

To articulate a convincing case for increased infrastructure investment across Minnesota through a partnership presenting a coordinated voice and unified, comprehensive needs information for today’s and tomorrow’s citizens and leaders.

or

EDUCATE THE PUBLIC ABOUT INFRASTRUCTURE
Partners

- City Engineers Association of Minnesota
- Minnesota Chapter - APWA
- Minnesota Section - ASCE
- Duluth Section - ASCE
- ACEC MN
- MnDOT
- 12 other professional groups
Sponsors

- Many donors
- Consultants, vendors, partners
- Videos were costly
- > $100 grand
Phases

- Documentation
- Messages
- Outreach
Progress

- Website: mn2050.org
- Presentations
- 3 videos
- Asset Management surveys
- Outreach campaign…!…?
MN2050 | State of the Infrastructure
2015 Survey

aka...Asset Management
Study Purpose

- MN2050 requested MnDOT State Aid to Local Cities fund a study about infrastructure and asset management in MN
  - Wilder Research was contracted to conduct this study in 2015 and again in 2016

- Goal: To share information with professionals, policy-makers, and the public about the types and condition of infrastructure assets in MN
Who? What? When?

- Web-based survey
- 266 Engineers and other professionals who manage infrastructure assets for a city, county, or state agency in MN
- Conducted in June 2015
- 53% response rate
## Who?

### Survey respondents

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of jurisdictions of this type that were sampled</th>
<th>Number of jurisdictions that completed the survey</th>
<th>Response rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cities with less than 5,000 residents $^1$</td>
<td>269</td>
<td>96</td>
<td>35%</td>
</tr>
<tr>
<td>Cities with 5,000 or more residents $^2$</td>
<td>148</td>
<td>104</td>
<td>70%</td>
</tr>
<tr>
<td>Counties $^2$</td>
<td>87</td>
<td>64</td>
<td>74%</td>
</tr>
<tr>
<td>State agencies</td>
<td>2</td>
<td>2</td>
<td>100%</td>
</tr>
<tr>
<td>Total</td>
<td>506</td>
<td>266</td>
<td>53%</td>
</tr>
</tbody>
</table>
Where?

- Completed survey
## Jurisdictions in MN manage many types of assets

<table>
<thead>
<tr>
<th></th>
<th>Smaller cities (N=88)</th>
<th>Larger cities (N=98)</th>
<th>Counties (N=60)</th>
<th>State agencies (N=2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roads</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>50%</td>
</tr>
<tr>
<td>Bridges</td>
<td>16%</td>
<td>63%</td>
<td>100%</td>
<td>50%</td>
</tr>
<tr>
<td>Transit lines</td>
<td>1%</td>
<td>7%</td>
<td>8%</td>
<td>0%</td>
</tr>
<tr>
<td>Traffic fixtures</td>
<td>75%</td>
<td>81%</td>
<td>75%</td>
<td>50%</td>
</tr>
<tr>
<td>Buildings</td>
<td>91%</td>
<td>91%</td>
<td>80%</td>
<td>100%</td>
</tr>
<tr>
<td>Water supply and distribution pipes</td>
<td>91%</td>
<td>96%</td>
<td>8%</td>
<td>0%</td>
</tr>
<tr>
<td>Waste water collection and treatment</td>
<td>93%</td>
<td>96%</td>
<td>5%</td>
<td>50%</td>
</tr>
<tr>
<td>Storm sewers</td>
<td>91%</td>
<td>97%</td>
<td>67%</td>
<td>100%</td>
</tr>
<tr>
<td>Storm ponds</td>
<td>61%</td>
<td>95%</td>
<td>42%</td>
<td>50%</td>
</tr>
<tr>
<td>Airports</td>
<td>17%</td>
<td>20%</td>
<td>17%</td>
<td>0%</td>
</tr>
<tr>
<td>Ports</td>
<td>0%</td>
<td>3%</td>
<td>2%</td>
<td>0%</td>
</tr>
<tr>
<td>Railways</td>
<td>12%</td>
<td>11%</td>
<td>12%</td>
<td>0%</td>
</tr>
<tr>
<td>Electrical systems</td>
<td>22%</td>
<td>43%</td>
<td>10%</td>
<td>0%</td>
</tr>
<tr>
<td>Solid waste facilities</td>
<td>12%</td>
<td>8%</td>
<td>35%</td>
<td>0%</td>
</tr>
<tr>
<td>Natural gas networks</td>
<td>17%</td>
<td>9%</td>
<td>7%</td>
<td>0%</td>
</tr>
<tr>
<td>Total number of asset types managed</td>
<td>14</td>
<td>15</td>
<td>15</td>
<td>7</td>
</tr>
</tbody>
</table>
Many practice asset management

Smaller cities (N=96) (pop. < 5,000)
- Yes: 54%
- No: 46%

Larger cities (N=104) (pop. ≥ 5,000)
- Yes: 82%
- No: 18%

Counties (N=64)
- Yes: 83%
- No: 17%
Condition and value of infrastructure in MN

- **Assets most likely to be fully mapped are:**
  - roads (85%)
  - airports (82%)
  - bridges (79%)
  - water supply and distribution pipes (77%)
  - waste water collection and treatment assets (72%)

- **Assets least likely to be mapped are:**
  - buildings (29%)
  - solid waste facilities (29%)
  - natural gas networks (27%)
  - traffic fixtures (26%)
  - transit lines (23%)

- Little is known about the current value of infrastructure assets in MN
3rd Phase: Outreach

- Most challenging
- Redefined as “Engagement”
- Engage at grassroots levels
- Focus on political caucuses
- Need vast participation: 250-1500
Engage in politics at local level

- Staff & fund the ‘campaign’
- Educate our partners
- Recruit partners’ members
- Train and prep.
- Attend caucuses
- Influence policies & budgets