Developing Regional Solutions

Regional Asset Management Pilot Program: 21st Century Infrastructure

MWEA Annual Conference
June 26, 2018
• Background
• Asset Management in Michigan
• Pilot
• Next Steps
21st Century Infrastructure Commission

- Created March 2016
- 110 Recs including Pilot Process
- Report Delivered Nov 2016
Comprehensive Approach

- WATER
- ELECTRIC
- SANITARY SEWER
- STORM SEWER
- ROADS
- GAS
- CABLE
Challenge: Coordination
Challenge: Missing Data
Challenge: Lack of Information

Our water system is a shared responsibility.

- Source Water Intake
- Water Treatment Plant
- Reservoir and Booster Station
- Municipal Master Meter
- Transmission Main
- Pressure Reducing Valves
- Distribution Main
- Fire Hydrant
- Curb Stop
- Valve
- Service Line
- Water Main
- Meter

Legend:
- Great Lakes Water Authority
- Municipality
- Property Owner
Challenge: Asset Age

- Does repairing what I have meet enough of my goals at a better value/cost?
- Should I replace what I have with the same?
- Do I need something different than what I have due to different needs or goals?
Currently: Silo Approach

- 617 Road Agencies
- 79 Transit Agencies
- 1,080 Wastewater systems
- 1,390 Drinking water systems
- 10 Natural gas utilities
- 59 Electric utilities
- 43 Broadband Provider
- 83 Drainage Commissioners

> 3,350 Asset Owners
Goals

- Identify gaps
- Determine database
- Begin coordination
- **One AM system for the state**
Pilot

June 2018
MIC
Legislation Passed
Pilot

- 13 counties
- GVMC, WMSRDC, SEMCOG
- 150 industry experts
- Stakeholder meetings
Data Collected

- Roads, Bridges, Culverts
- Drinking water pipes
- Stormwater pipes
- Wastewater pipes
Data Collected

- Depth
- Length
- Age
- Material
- Size
- Asset ID

Single Database
Results

- 201 agencies
- 15,000+ miles drinking water
- 13,000+ miles wastewater
- 7,000+ miles stormwater
Challenges

- Time constraints
- Data sharing
- Data collection
Moving Forward

• Michigan Infrastructure Council (MIC)
  – Develop statewide strategic AM
  – Guidelines for LOS
  – Training
  – DEQ refine requirements – flexible framework

• Statewide System
  – Local ability to collect, store data in geospatial format
  – Basic GIS asset register (Tier 1)
  – Data Repository (Tier 2)
  – Statewide IT system (Tier 3)
Asset Management Councils

- Transportation Asset Management Council (TAMC) – Roads
- New Water Asset Management Council (WAMC) – Drinking Water, Wastewater, Stormwater
- Both support MIC
- Coordination with DEQ (but no more detail than permit requirements)
Next Steps for SEMCOG

- Final report recommendations
- Convene asset management pilot team
- Evaluate region data; identify gaps
- Prioritize data needs in region
- Data collection / mapping
- Other technical data support (condition assessment options, etc.)
Regional Asset Management
Pilot Program: 21st Century Infrastructure

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