What Lies Beneath: Developing a 30-Year Infrastructure Strategy for Michigan

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Infrastructure Impacts all Michiganders

Public Health and Quality of Life
• Clean and safe drinking water
• Safe and faster commutes

Economic Prosperity
• Business relies on efficient and effective infrastructure
• Unplanned and “emergency” fixes are expensive

Healthy Environment
• Preservation of unique natural resources
Michigan’s Infrastructure is Challenged

- Expansive and Complex Network
- Aging and in need of costly repairs/replacements
- Limited and unsynchronized funding sources
- Siloed ownership
- Uncoordinated repair cycles
How is Michigan Different? Executive Support

21st Century Infrastructure Commission
- Long-term vision and recommendations across transportation, water, energy, and communications

Infrastructure Asset Management Pilot
- Focused, cross-asset inventory and assessment in 16 West and Southeast Michigan Counties

Current Administration
- Roads and Bridges
- $105 million investment in water infrastructure (2020)

“We are all paying to fix our cars when we should be paying to fix the road.”
- Governor Whitmer

Michigan Infrastructure Council
How is Michigan Different? Integrated Approach
How is Michigan Different? Integrated Approach

Water Asset Management Council
- Drinking Water
- Wastewater
- Stormwater

Transportation Asset Management Council
- Roads
- Bridges
- Culverts
- Signals
How is Michigan Different?  Integrated Approach

**Spring Summits – By the Numbers**

15 summits in 14 communities over 6 weeks

450 participants including public and private asset owners and managers, government officials representing local, regional, state, and tribal jurisdictions, non-governmental organizations, and private consultants

246 different organizations represented across the summits

879 individual pieces of feedback

**Fall Summits – By the Numbers**

12 summits in 12 communities over 6 weeks*

Over 500 participants

* 2 Summits postponed to early 2020
### “Managing Assets” vs “Asset Management”

- **Managing Assets** (things you do to assets) can be done with or without strategy and organizational context.
- **Asset Management** has a broader focus than Managing Assets, encompassing many organizational levels and applying to all functions or departments.

<table>
<thead>
<tr>
<th>Managing Assets focuses on...</th>
<th>Asset Management focuses on...</th>
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</thead>
<tbody>
<tr>
<td>• Lifecycle activities and asset care - availability, reliability, dependability and safety</td>
<td>• The purpose of your organization and what assets does it need – and why</td>
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<tr>
<td>• Asset location, condition, life extension and/or interventions</td>
<td>• Value, purpose and long-term outcomes</td>
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<tr>
<td>• Asset databases, systems (and IT) and performance</td>
<td>• Risk and context e.g. markets / climate / regulation</td>
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<tr>
<td>• People, skills and work management</td>
<td>• Holistic approach to different funding streams e.g. capital and operating?</td>
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<tr>
<td>• Budgets and key performance indicators (KPIs) / cost of maintenance and current performance</td>
<td>• Collaborative behaviors - breaking down silos both internal and supply chain?</td>
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<td></td>
<td>• How assets contribute to organizational value</td>
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Asset Management is about MUCH more than ‘Managing Assets’

Source: ISO 55000 TC251 Committee
Key Initiatives

• Asset Management Readiness Assessment Scale

• MIC “Dig Once” Project Portal
Asset Management Readiness Assessment Scale

• Affirms the 5 Asset Management Competencies

• Value to Asset Owners:
  • Assess and baseline current ability through “Readiness Levels”
  • Set future state “target goals”
  • Systematic reassessment

• Value to Michigan:
  • Captures consistent statewide metrics
  • Prioritize infrastructure resources
## Asset Management Readiness Scale

### Form Version 1.0
February 3, 2020

#### Organization Information
- Organization Name
- Department (if applicable)
- EIN (if publicly available)
- Address
- City, State, Zip
- County (Select from dropdown)
- Region (Based on county selected from dropdown above)
- Submission Contact (Please share your completed spreadsheet with your region)

#### Organization Representative Contact Information
- Name
- Phone
- Email
- Completion Date (Format MM/DD/YYYY)

#### Demographic Information
What Asset(s) do you own and/or manage? (select all that apply)

- Transportation: Roads/Bridges
- Drinking Water
- Wastewater
- Storm Water
- Gas Utilities
- Electric Utilities

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### Michigan Infrastructure Council

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### Section 1 - Policy and Governance

**Organization:**

**Department:**

**Assets Reported On:**
- Transportation: Roads/Bridges
- Signals/Culverts
- Drinking Water
- Wastewater

#### Policy and Governance:
By developing this competency, your organization is putting in place policies and objectives related to asset management (AM), bringing these policies to life through adesktop and roadmap, and then measuring progress and monitoring implementation over time.

This competency helps you create the policy structure in your organization that lays out your asset management plans and how they will be achieved, leading to organisational alignment and commitment.

**Note:** To achieve each level, you must meet every requirement of each level before it.

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### Current State

#### Outcome areas

- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

#### Current actions

- Describe Current Actions

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### Future State

- Year 1
- Year 2
- Year 3

#### Describe Planned Potential Actions

- Describe Planned Potential Actions

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### Michigan Infrastructure Council
Asset Management Readiness Assessment Scale
Asset Management Readiness Assessment Scale

**Audience**
- Asset Owners – Local Government, Utilities, Communications, Authorities

**Implementation**
- Michigan Association of Regions
- AM in the AM (February 25)

**Timeline**
- Release – February 2020
Asset Management Readiness Assessment Scale

More Information: Michigan.gov/MIC
Key Initiatives

- Asset Management Readiness Assessment Scale
- MIC “Dig Once” Project Portal
MIC “Dig Once” Project Portal

- Coordination and Collaboration Tool
- Provides High Level Project Information
- Allows Users to Add and View Projects within their Region
- Provides Project Point of Contact for Collaboration Purposes
MIC “Dig Once” Project Portal

Benefits and Features

- Integrated: Utilities/Telecommunications as well as Public Asset Owners
- Secure: Permission-Based (MiLOGIN)
- Reduced Redundancy
  - Existing projects
  - Shapefiles
- Push Notifications
- Industry Standard Terminology
MIC “Dig Once” Project Portal

Audience
- Asset Owners – Local Government, Utilities, Communications, Authorities
- Approved Proxies (i.e. Consultant Community)

Implementation
- Project-Owners
- Michigan Association of Regions
- Marketing Campaign

Timeline
- Release – Summer 2020
Next Steps

• Roll Out Key Initiatives

• Strengthen Coordination between Councils and Stakeholders

• Increase Engagement
Thank You
Michigan Municipal Executives!

Michigan.gov/MIC