Building a Strategic Framework for Michigan’s Integrated Infrastructure Asset Management
Infrastructure Impacts all Michiganders

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

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

Healthy Environment
• Preservation of unique natural resources
Building the Foundation for Statewide Integrated Asset Management

- P.A. 323 of 2018 creates the Michigan Infrastructure Council (MIC)
- P.A. 324 of 2018 creates the Water Asset Management Council (WAMC) under MIC
- P.A. 325 of 2018 realigns the Transportation Asset Management Council (TAMC) under MIC
Foster and support a statewide culture of asset management focused on the role of water infrastructure in providing public health and optimizing stakeholder value.
Water Asset Management Strategy

- Drinking Water
- Wastewater
- Storm Water
To Develop and Support Excellence in Managing Michigan’s Transportation Assets by:

1. Advising the Legislature, State Transportation Commission (STC), Michigan Infrastructure Council (MIC) and Transportation Committees.

2. Promoting Asset Management Principles

3. Providing tools and practices for road agencies.

4. Collaborate and coordinate with Water Asset Management Council (WAMC) and other asset owners.
Transportation Asset Management

- Roads
- Bridges
- Culverts
- Signals
- Other?
Asset Management Plan
Components

**WAMC**
- Asset inventory
- Level of service analysis (Performance goals)
- Risk of failure analysis
- Anticipated revenues and expenses
- Performance outcomes analysis
- Description of plans to coordinate
- Proof of acceptance/adoption by governing body

**TAMC**
- Asset inventory
- Performance goals
- Risk of failure analysis
- Anticipated revenues and expenses
- Performance outcomes analysis
- Description of plans to coordinate
- Proof of acceptance/adoption by governing body
Three Councils – One Message

- **Unified** – Culture of Asset Management across assets and across Michigan
- **Tactical** – Common definitions, standards, processes, requirements
- **Strategic** – Coordinated training/education, projects, funding, policy, analytics
Mission: Define a vision for Michigan’s infrastructure that provides the foundation for public and environmental health, economic prosperity, and quality of life.
Educate

Provide accurate and trusted information to support effective infrastructure decisions

- Create a Common “Glossary” Across Assets to Enable Coordination
- Create a Common Understanding of Condition (good-fair-poor) across Infrastructure Asset Classes
- Outreach Communications
Facilitate a coordinated, holistic approach that optimizes the contributions of all who manage and use Michigan’s infrastructure.

- Lead Efforts to become a Trusted Partner
- Increase Efficiencies and Reduce Burden through Shared Activities
- Conduct Regional Communication and Coordination Summits
Join the Conversation – Spring 2019

• Begin the journey

• Peer-to-peer engagement

• Feedback on opportunities and challenges
Join the Conversation – Spring 2019

**Asset Distribution as Self-Identified by Participants**

- Roads: 33%
- Communications: 19%
- Utilities: 21%
- Water: 27%

**Distribution of Organizations**

- Local Government: 46%
- Non-Government Organizations: 22%
- Private Utility and Telecommunications: 6%
- Tribal Government: 1%
- State Government: 19%
- Consultant: 6%
Join the Conversation – Spring 2019

• How can Michigan improve the culture of asset Management?

• What are the barriers/opportunities for improving cross-asset project coordination?

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
FEEDBACK DISTRIBUTION
AS ALIGNED WITH MIC GOALS

- Coordinate: 33%
- Collaborate: 25%
- Prioritize: 9%
- Educate: 15%
- Invest: 18%

Join the Conversation – Spring 2019
Align strategies for infrastructure management to ensure that Michigan’s assets are effectively and efficiently constructed, operated, and maintained.

- Launch Cross-Asset Project Portal to Encourage Collaborative Efforts
- Standardize Processes and Regulatory Requirements
- Leverage Subject Matter Experts to Implement Best Practices
Establish and document the condition of Michigan’s infrastructure to identify the needs of greatest priority.

- Implement Common Definitions and Inventory Standards
- Establish Baseline Metrics and Target Goals for Improvements
- Evaluate Impact of Regional Variations and Funding Constraints on Asset Management
## Asset Management Readiness Assessment

### Outcomes: Select the outcomes that your organization has achieved.

<table>
<thead>
<tr>
<th>Outcome areas</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
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</table>
| A  
Policy and governance | Senior management is committed to formulating an AM program. | We have drafted an AM policy. | We are starting to use our AM policy to guide our actions. | We manage assets and services in accordance with our AM policy and organizational objectives. | We continue to validate and refine our corporate, service and AM objectives based on the evolving needs of our community. |
| B  
Strategy and roadmap | We have identified the benefits that we want AM to deliver, and the benefits support organizational objectives. | We have a strategy for our AM program. | We have a roadmap that outlines our approach for the next 1 to 3 years. | We are achieving our AM policy objectives. The necessary workflows, documents, and reporting tools are in place. | We follow our roadmap and continually improve our AM practices. |
| C  
Measurement and monitoring | We have identified short-term actions that will demonstrate early progress on AM. | We are collecting baseline data on our current AM practices. | We have established performance measures to monitor our asset management progress, outcomes, and the benefits to our community. | We use performance measures to monitor AM progress, outcomes, and benefits. | We monitor performance and use the feedback to prioritize and make ongoing refinements and improvements to AM practices. |
Determine, recommend, and advocate for adequate funding for Michigan’s infrastructure and promote effective and efficient investments to achieve maximum benefit

- Support Bold and Creative Funding Strategies
- Work Toward Funding Alignment
- Develop Budget and Funding Recommendations
On the Horizon…

- Continue peer-to-peer engagement – Fall Summits
- Prototype Project Portal
- Introduce Asset Management Plans (TAMC/WAMC)
- Collect statewide baseline metrics for integrated asset management
Thank You!

Learn More:
MIC: Michigan.gov/MIC
WAMC: Michigan.gov/EGLE
TAMC: Michigan.gov/TAMC