

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

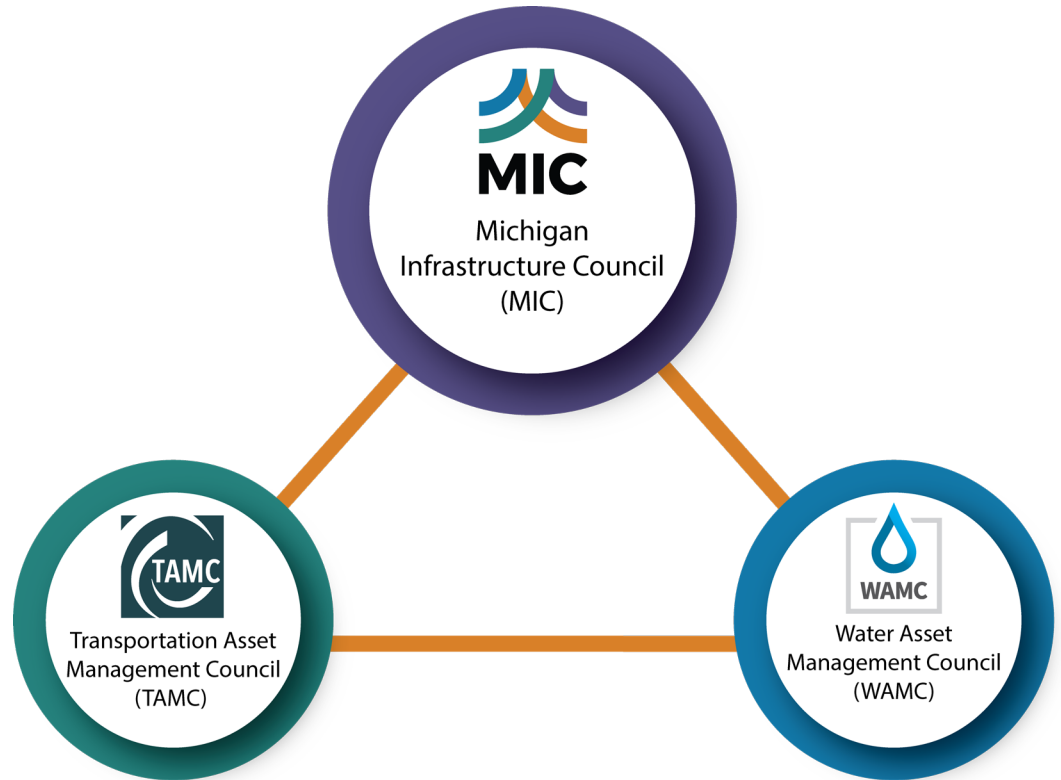
Healthy Environment

- 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



Water Asset Management Council Mission

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



Transportation Asset Management Council Mission

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

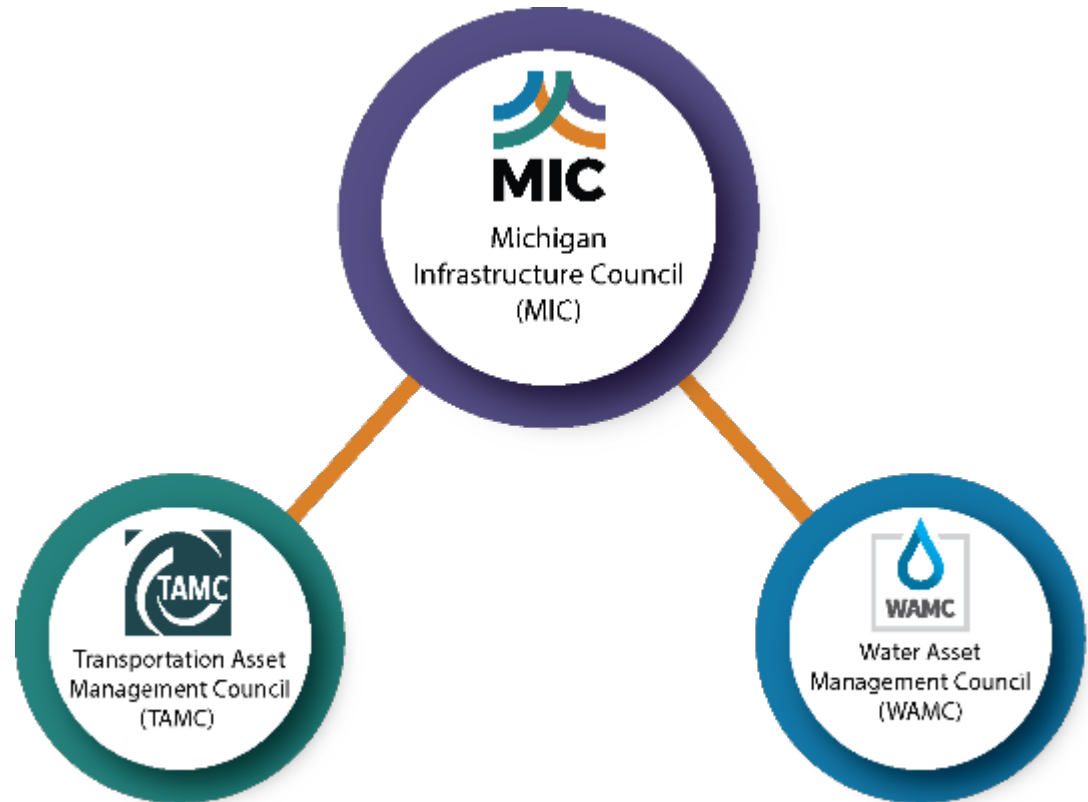
- Asset inventory
- Level of service analysis (Performance goals)
- Risk of failure analysis
- Anticipated revenues and expenses
- Performance outcomes analysis
- Description of plans to coordinate
- Proof of acceptance/adoption by governing body

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



MIC Mission & Goals – Working Toward a 30 Year Strategy

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





Collaborate

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



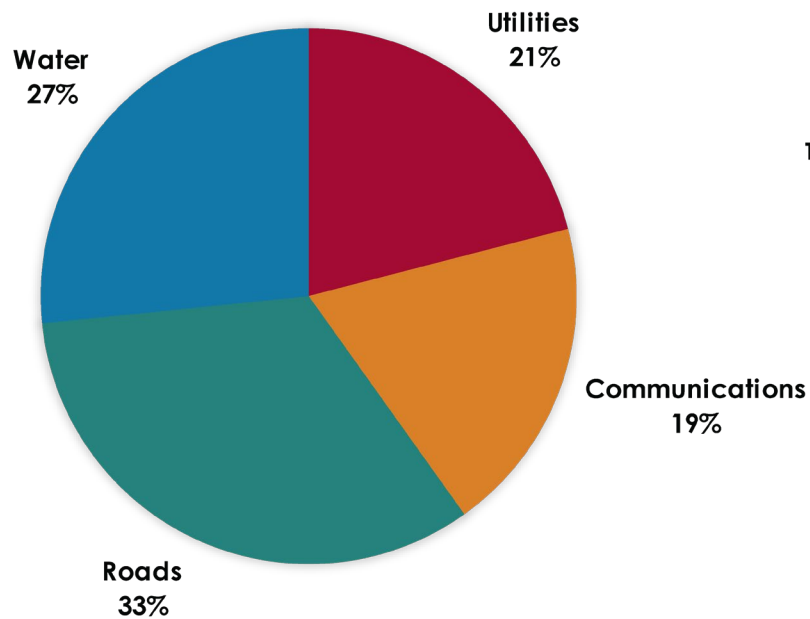
Join the Conversation – Spring 2019

- Begin the journey
- Peer-to-peer engagement
- Feedback on opportunities and challenges

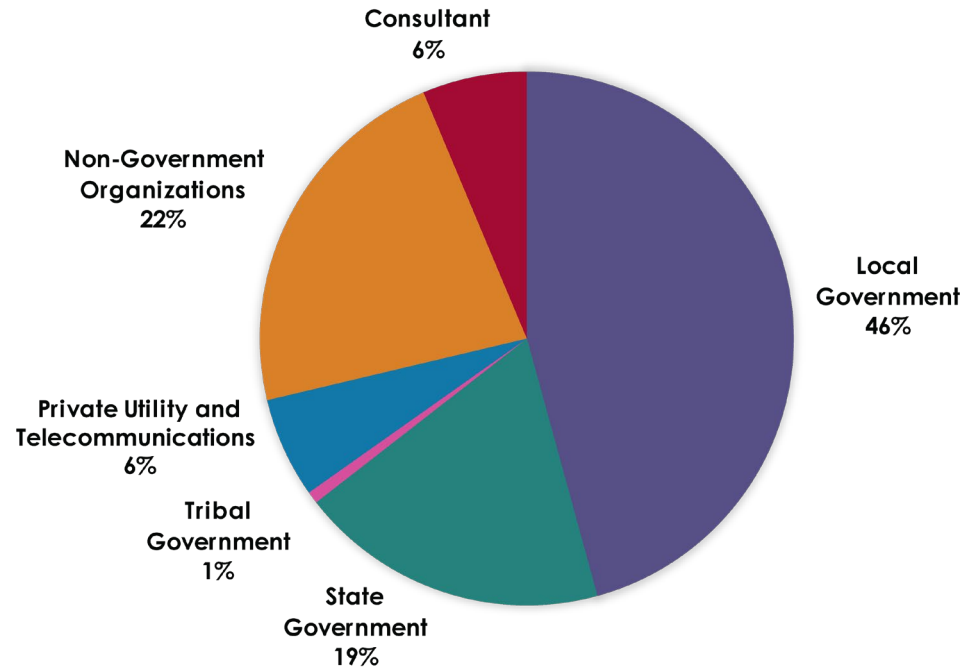


Join the Conversation – Spring 2019

ASSET DISTRIBUTION AS SELF-IDENTIFIED BY PARTICIPANTS



DISTRIBUTION OF ORGANIZATIONS



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

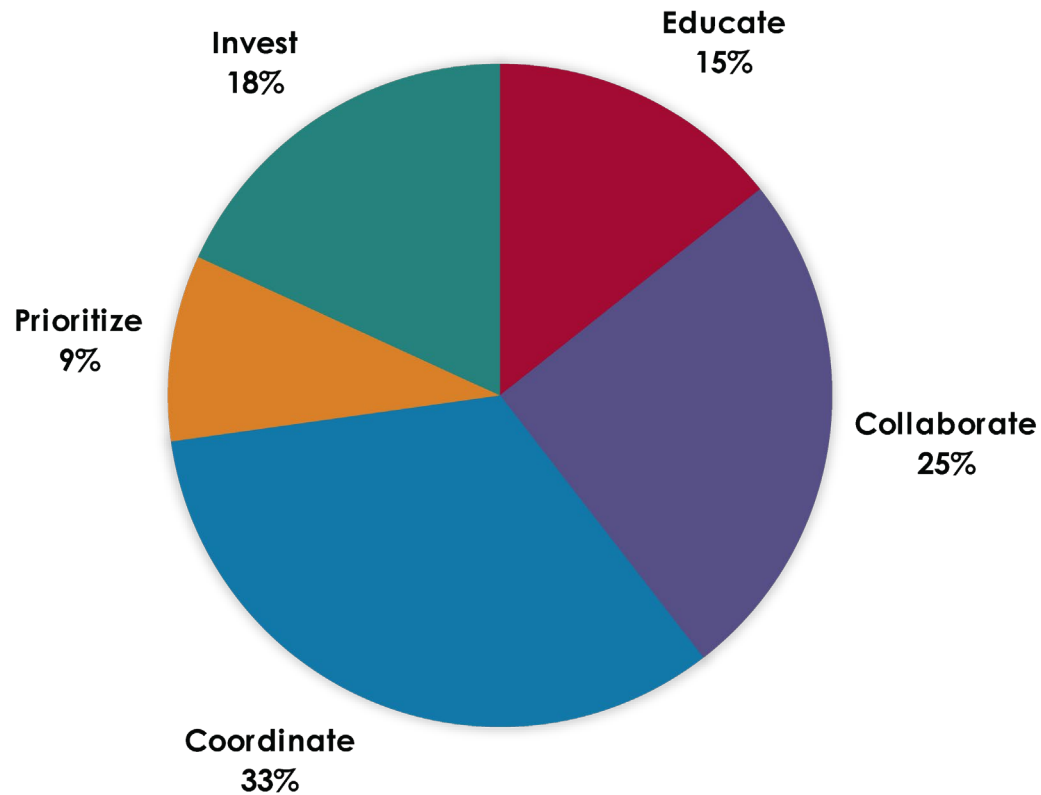
246 different organizations represented across the summits

879 individual pieces of feedback



Join the Conversation – Spring 2019

FEEDBACK DISTRIBUTION AS ALIGNED WITH MIC GOALS





Coordinate

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





Prioritize

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.

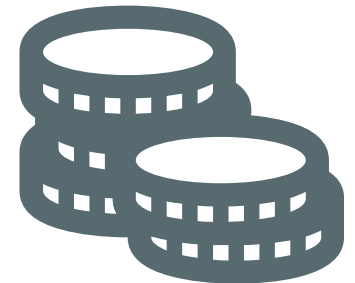
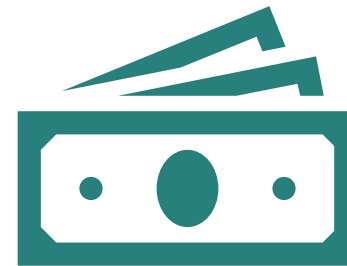
Outcome areas	Level 1	Level 2	Level 3	Level 4	Level 5
A Policy and objectives	<input type="checkbox"/> Senior management is committed to formalizing an AM program .	<input type="checkbox"/> We have drafted an AM policy . <input type="checkbox"/> Senior management and council have endorsed the AM policy .	<input type="checkbox"/> We are starting to use our AM policy to guide our actions.	<input type="checkbox"/> We manage assets and services in accordance with our AM policy and organizational objectives.	<input type="checkbox"/> We continue to validate and refine our corporate, service and AM objectives based on the evolving needs of our community.
B Strategy and roadmap	<input type="checkbox"/> We have identified the benefits that we want AM to deliver, and the benefits support organizational objectives.	<input type="checkbox"/> We have a strategy for our AM program . <input type="checkbox"/> We have a draft roadmap that outlines our approach for the next 1 to 3 years.	<input type="checkbox"/> We have a roadmap that details the actions for implementing our AM strategy over the next 3 to 5 years.	<input type="checkbox"/> We are achieving our AM policy objectives. The necessary workflows, documents, and reporting tools are in place. <input type="checkbox"/> We update our roadmap to address evolving needs.	<input type="checkbox"/> We follow our roadmap and continually improve our AM practices. <input type="checkbox"/> We document improvements to our AM practices.
C Measurement and monitoring	<input type="checkbox"/> We have identified short-term actions that will demonstrate early progress on AM.	<input type="checkbox"/> We are collecting baseline data on our current AM practices.	<input type="checkbox"/> We have established performance measures to monitor our asset management progress, outcomes, and the benefits to our community.	<input type="checkbox"/> We use performance measures to monitor AM progress, outcomes, and benefits.	<input type="checkbox"/> We monitor performance and use the feedback to prioritize and make ongoing refinements and improvements to AM practices.



Invest

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