

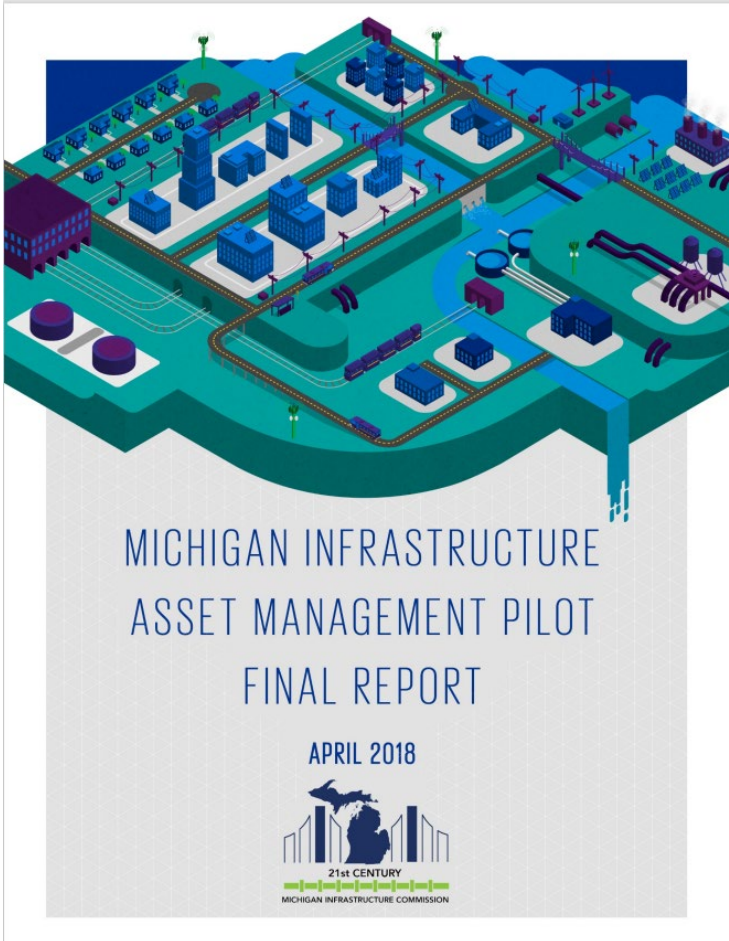


**Michigan
Infrastructure
Council**



Michigan Department of
TREASURY

History and Background



Legislation Package 2018

Act No. 323
Public Acts of 2018
Approved by the Governor
June 28, 2018
Filed with the Secretary of State
July 2, 2018
EFFECTIVE DATE: July 2, 2018

STATE OF MICHIGAN
99TH LEGISLATURE
REGULAR SESSION OF 2018

Introduced by Rep. Verheulen

ENROLLED HOUSE BILL No. 5335

AN ACT to create the Michigan Infrastructure Council; and to prescribe the powers and duties of certain state and local agencies and officials.

The People of the State of Michigan enact:

Sec. 1. This act shall be known and may be cited as the "Michigan Infrastructure Council Act".

Sec. 2. As used in this act:

- (a) "Asset" means infrastructure related to drinking water, wastewater, stormwater, transportation, energy, or communications, including but not limited to, drinking water supply systems, wastewater systems, stormwater systems, drains, roads, bridges, broadband and communication systems, and electricity and natural gas networks.
- (b) "Asset class" means a single type of asset including its network and all associated apparatuses critical to its performance.
- (c) "Asset management" means an ongoing process of maintaining, preserving, upgrading, and operating physical assets cost-effectively, based on a continuous physical inventory and condition assessment and investment to achieve performance goals.
- (d) "Asset management plan" means a set of procedures to manage assets through their life cycles, based on principles of life cycle costing. An asset management plan may be used as a tool to help an asset owner implement its asset management program.
- (e) "Asset owner" means a person that owns or operates an asset.
- (f) "Department" means the department of treasury.
- (g) "Performance goal" means standards of system performance that reflect asset management principles for asset preservation and sustainability, operation, capacity consistent with local needs, and identified levels of service.
- (h) "Person" means an individual, partnership, corporation, association, governmental entity, or other legal entity.
- (i) "Region" means the geographic jurisdiction of any of the following:
 - (1) A regional planning commission created pursuant to 1945 PA 201, MCL 125.11 to 125.125.
 - (2) A regional economic development commission created pursuant to 1990 PA 46, MCL 125.121 to 125.127.
 - (3) A metropolitan area council formed pursuant to the metropolitan councils act, 1969 PA 292, MCL 124.651 to 124.725.
 - (4) A metropolitan planning organization established pursuant to federal law.

(164)

Act No. 324
Public Acts of 2018
Approved by the Governor
June 28, 2018
Filed with the Secretary of State
July 2, 2018
EFFECTIVE DATE: July 2, 2018

STATE OF MICHIGAN
99TH LEGISLATURE
REGULAR SESSION OF 2018

Introduced by Rep. Victory

ENROLLED HOUSE BILL No. 5406

AN ACT to amend 1994 PA 423, entitled "An act to protect the environment and natural resources of the state to collect, review, consolidate, and classify laws relating to the environment and natural resources of the state; to regulate the discharge of certain substances into the environment; to regulate the use of certain lands, waters, and other natural resources of the state; to protect the people's right to hunt and fish; to prescribe the powers and duties of certain state and local agencies and officials to provide for certain charges, fees, assessments, and donations to provide certain appropriations; to promote penalties and provide remedies; and to repeal acts and parts of acts," (MCL 324.101 to 324.1036) by adding part 42.

The People of the State of Michigan enact:

PART 42 WATER ASSET MANAGEMENT COUNCIL.

Sec. 5001. As used in this section:

- (a) "Asset management" means an ongoing process of maintaining, upgrading, and operating physical assets cost-effectively, based on a continuous physical inventory and condition assessment and investment to achieve performance goals.
- (b) "Asset management plan" means a set of procedures to manage assets through their life cycles, based on principles of life cycle costing.
- (c) "Asset owner" means a person or agency that owns or operates an asset that meets either of the following requirements:
 - (1) Serves 1,000 or more individuals and is required by a national pollutant discharge elimination system permit to have an asset management plan.
 - (2) Serves 1,000 or more individuals and is required by the safe drinking water act, 1975 PA 209, MCL 124.1001 to 124.1003, to have an asset management plan.
- (d) "Department" means the department of environmental quality.
- (e) "Drinking water asset" means a system, owned by an asset owner, of pipes and structures through which drinking water is obtained and distributed, including, but not limited to, wells and well structures, wellhead protection areas, groundwater protection areas, intakes and orifices, pumping stations, treatment plants, storage tanks, pipelines, and appurtenances, or a combination of these pipes and structures that are used or intended for use for the purpose of furnishing drinking water for municipal or household purposes.
- (f) "Michigan Infrastructure Council" means the Michigan Infrastructure Council created in the Michigan Infrastructure Council Act.

(165)

Act No. 325
Public Acts of 2018
Approved by the Governor
June 28, 2018
Filed with the Secretary of State
July 2, 2018
EFFECTIVE DATE: September 30, 2018

STATE OF MICHIGAN
99TH LEGISLATURE
REGULAR SESSION OF 2018

Introduced by Rep. Cole

ENROLLED HOUSE BILL No. 5408

AN ACT to amend 1961 PA 51, entitled "An act to provide for the classification of all public roads, streets, and highways in this state, and for the revision of that classification and for additions to and deletions from such classification; to set up and establish the Michigan transportation fund; to provide for the deposits in the Michigan transportation fund of specific taxes on motor vehicles and motor vehicle fuels; to provide for the allocation of funds from the Michigan transportation fund and the use and administration of the fund for transportation purposes; to promote safe and efficient travel for motor vehicle drivers, bicyclists, pedestrians, and other legal users of roads, streets, and highways; to set up and establish the truck safety fund; to provide for the allocation of funds from the truck safety fund and administration of the fund for truck safety purposes; to set up and establish the Michigan truck safety commission; to establish certain standards for road construction for certain businesses; to provide for the continuing review of transportation needs within the state; to authorize the state transportation commission, counties, cities, and villages to borrow money, issue bonds, and make pledges of funds for transportation purposes; to authorize counties to advance funds for the payment of delinquent necessary for the payment of bonds issued under this act; to provide for the limitation, payment, retirement, and maturity of the bonds and pledges; to provide for appropriations and tax levies by counties and townships for county roads to authorize contributions by townships for county roads; to provide for the establishment and administration of the state truck line fund, local bridge fund, comprehensive transportation fund, and certain other funds; to provide for the deposits in the state truck line fund, critical bridge fund, comprehensive transportation fund, and certain other funds of money raised by specific taxes and fees; to provide for definitions of public transportation functions and criteria; to define the purposes for which Michigan transportation funds may be allocated; to provide for Michigan transportation fund grants; to provide for review and approval of transportation programs; to provide for submission of annual legislative requests and reports; to provide for the establishment and functions of certain advisory entities to provide for conditions for grants; to provide for the issuance of bonds and notes for transportation purposes; to provide for the powers and duties of certain state and local agencies and officials; to provide for the making of loans for transportation purposes by the state transportation department; and for the receipt and equipment by local units and agencies of loans from certain specified sources; and to repeal acts and parts of acts," by amending section 5a (MCL 497.506), as amended by 2012 PA 226.

The People of the State of Michigan enact:

Sec. 5a. (1) As used in this section:

- (a) "Asset management" means an ongoing process of maintaining, preserving, upgrading, and operating physical assets cost-effectively, based on a continuous physical inventory and condition assessment and investment to achieve established performance goals.
- (b) "Asset management plan" means a plan created by the department and approved by the state transportation commission or a plan created by a local road agency and approved by the local road agency's governing body that

(167)

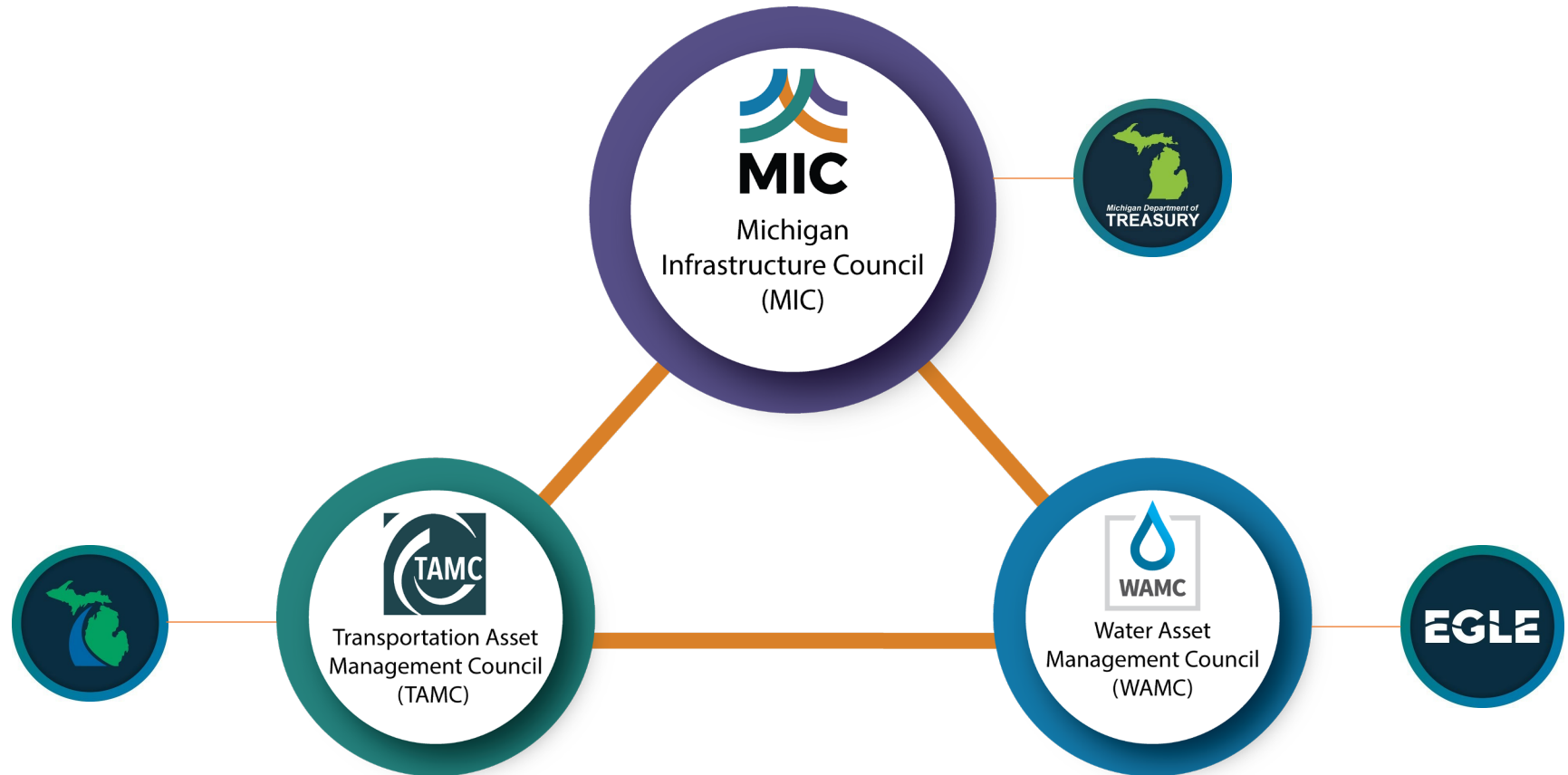
Public Act 323 of 2018
Michigan Infrastructure Council Act

Public Act 324 of 2018
Water Asset Management Council

Public Act 325 of 2018
Transportation Asset Management Council



Legislation Package 2018



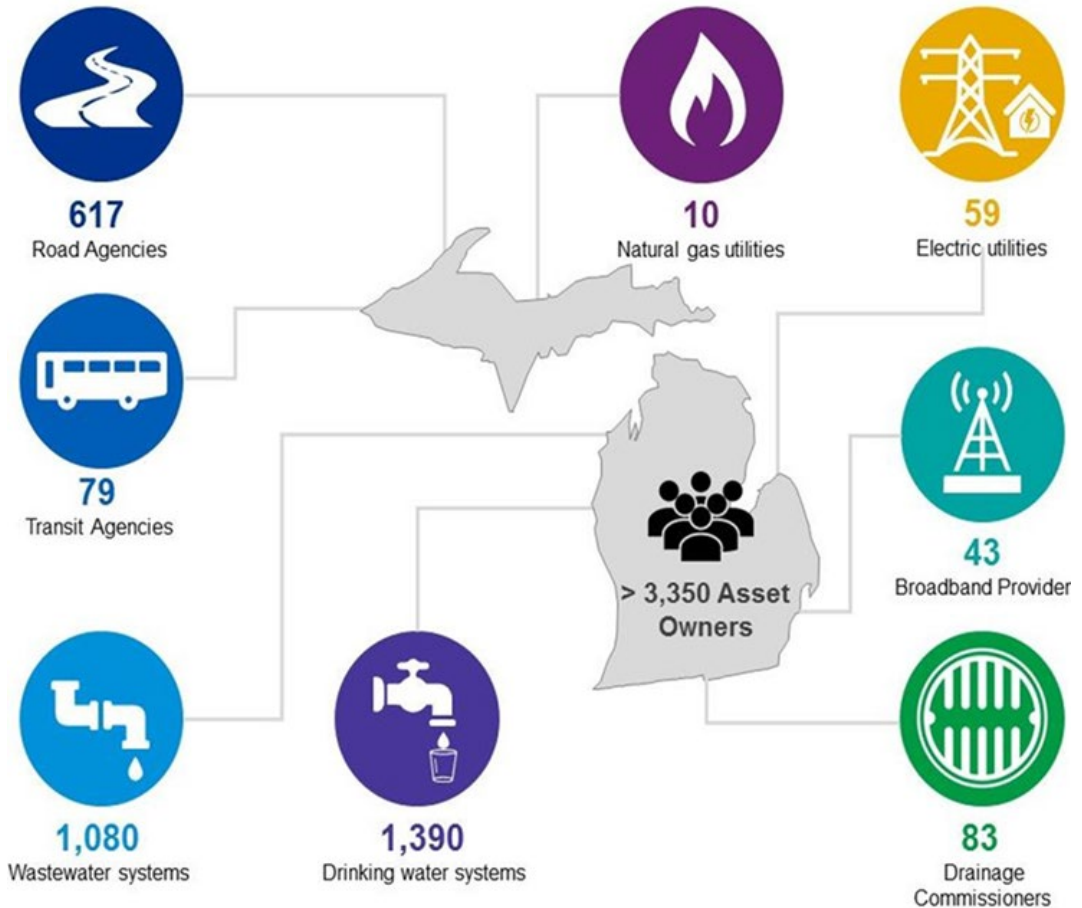
Michigan Infrastructure Council



Michigan Infrastructure Council

“Coordinated infrastructure planning and management is a necessary foundation to a successful future system. If implemented in a standardized and systematic way across infrastructure types and jurisdictions, asset management can improve coordination and significantly reduce costs”

Michigan Infrastructure Asset Management Pilot Final Report



MIC Voting Members

MIC Council Members



John Weiss

Chairperson, Appointed by the Senate Majority Leader - Term expires 12/31/2023



Kathleen Lomako

Vice-Chairperson, Appointed by the House Minority Leader - Term expires 12/31/2022



Marco Bruzzano

Appointed by the Governor, Term Expires 12/31/2024



Jon Kangas

Appointed by the Governor - Term expires 12/31/2022



Beverly Watts

Appointed by the Governor - Term expires 12/31/2024



Erin Kuhn

Appointed by the Governor - Term expires 12/31/2024



Palencia Mobley

Appointed by the Governor - Term expires 12/31/2023



Daniel Fredendall

Appointed by the Speaker of the House - Term expires 12/31/2023



John H. Daly III, Ph.D

Appointed by the Senate Minority Leader - Term expires 12/31/2022



MIC Non-Voting Members



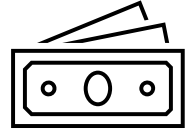
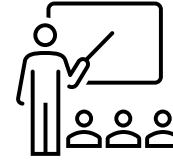
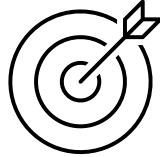
Mission

Define a vision for Michigan's infrastructure that provides the foundation for public and environmental health, economic prosperity, and quality of life.

| MIC Mission



MIC Goals



Collaborate

Facilitate a coordinated, holistic approach that optimizes the engagement of all stakeholders who manage and use Michigan's infrastructure.

Coordinate

Align strategies for infrastructure management to ensure that Michigan's assets are effectively and efficiently constructed, operated, and maintained.

Prioritize

Establish and document the condition of Michigan's infrastructure to identify the needs of greatest priority.

Educate

Provide accurate and trusted information to support effective infrastructure decisions.

Invest

Determine, recommend, and advocate for adequate funding for Michigan's infrastructure and promote effective and efficient investments to achieve maximum benefit.

Beginning the Conversation

SPRING SUMMITS – BY THE NUMBERS

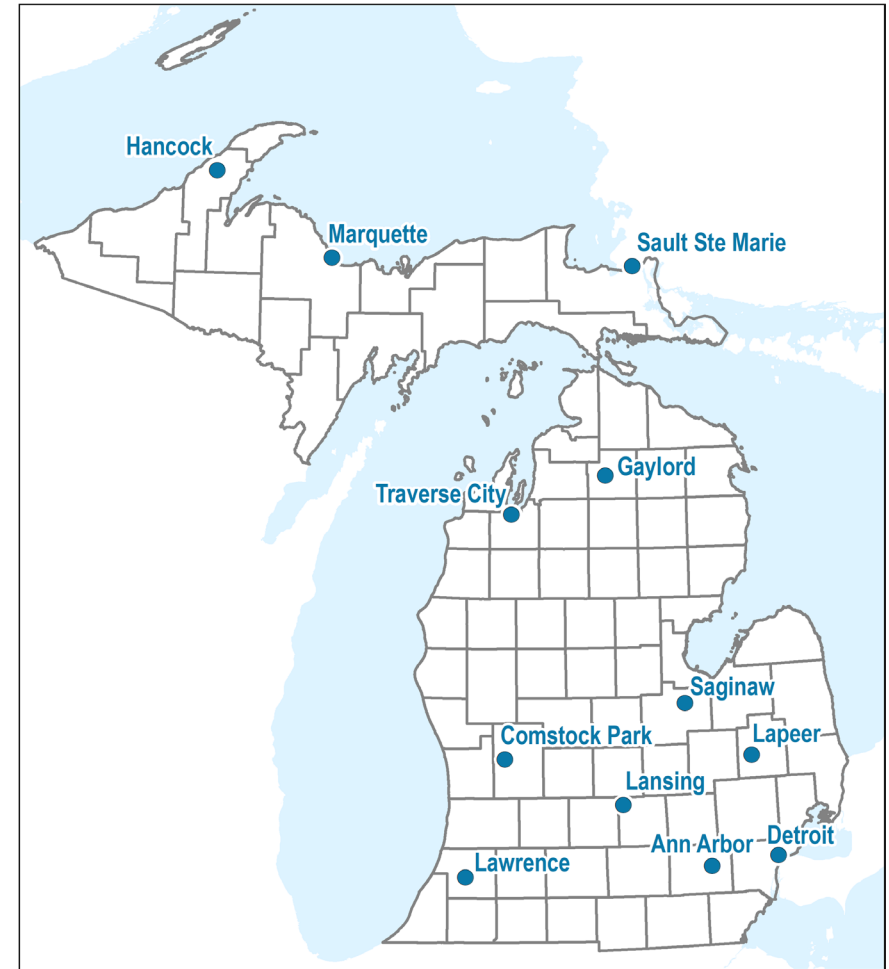
15 summits in **14** communities over **6** weeks

450 participants including government officials representing local, regional, state, and tribal jurisdictions, private utilities and telecommunications, non-governmental organizations, and consultants

246 different organizations represented across the summits

879 individual pieces of feedback

“I was surprised at the level of comradery and desire to work together by the different players in the room. Attendees seemed in agreement that the plan to coordinate efforts and meet regularly is a good one.”



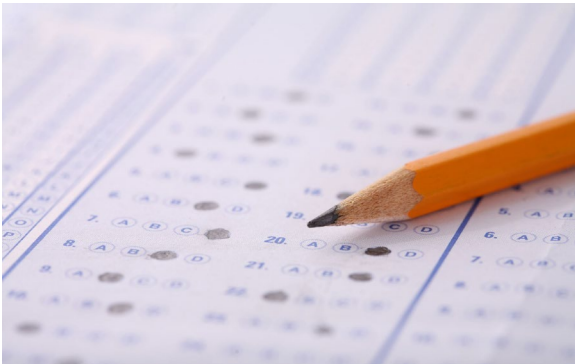
MIC Initiatives



**Asset Management
Champions Training**



“Dig Once” Project Portal



**Asset Management
Readiness Self-Assessment**

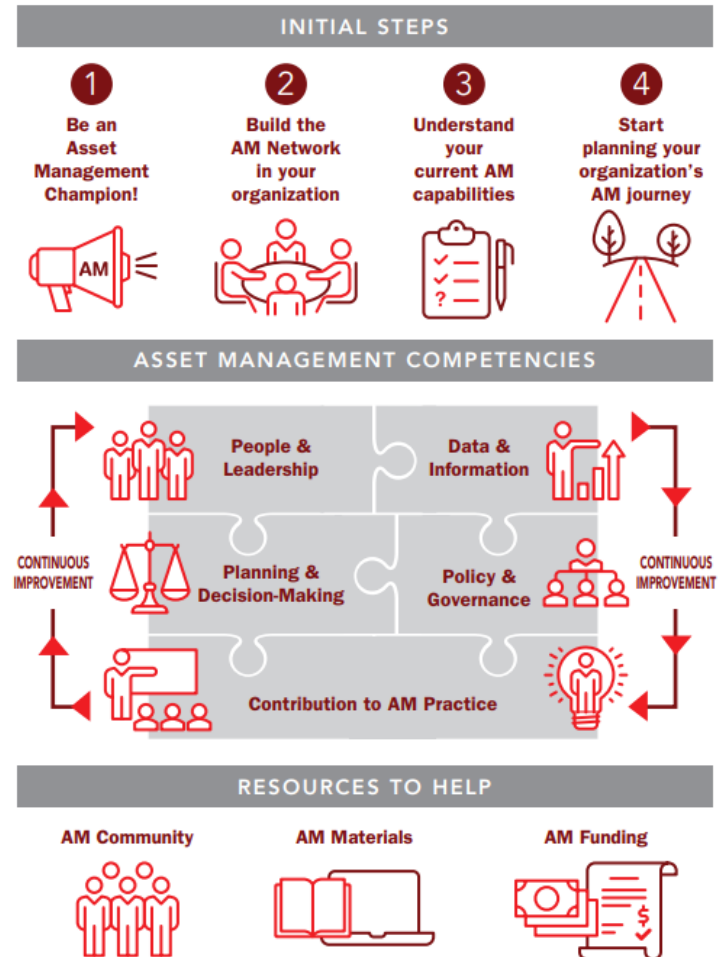


**30-Year Integrated
Infrastructure Strategy**

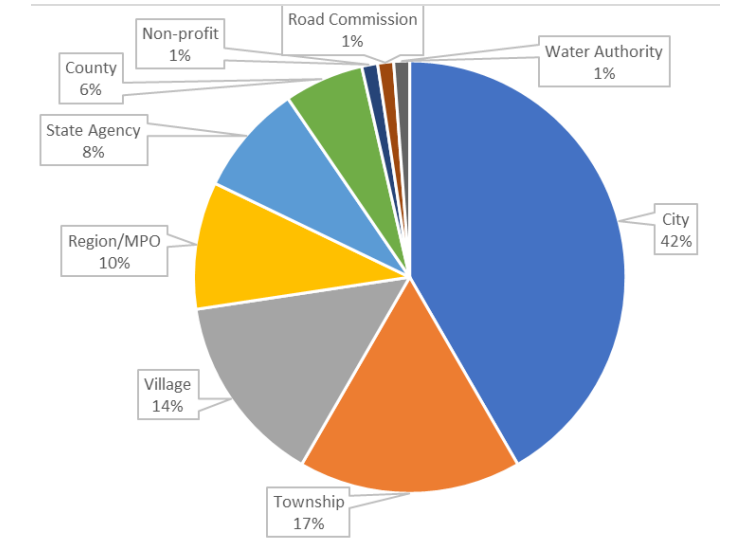
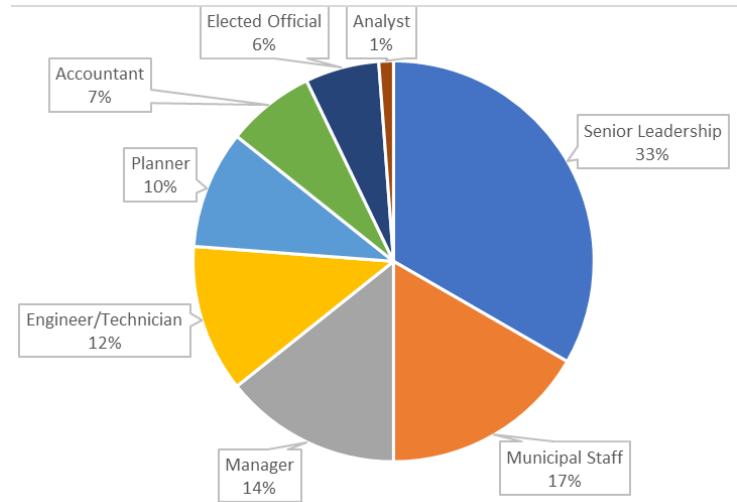
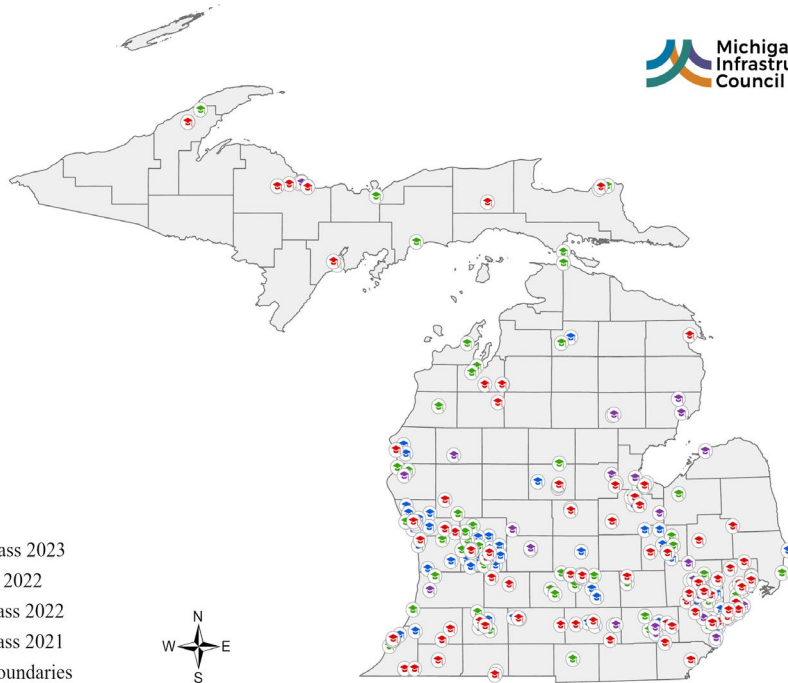
MIC Asset Management (AM) Champion Objectives

- **Build Awareness:** Build AM Champions to foster a culture of asset management best practices across Michigan.
- **Develop Knowledge:** Develop AM Champions who understand and promote the value of asset management aligned with the five topics in the MIC Asset Management Readiness Scale (AMRS).
- **Establish Community:** Establish a community of AM champions to seed peer relationships and build a network of asset management leaders across the state and across infrastructure silos.

Guide to formalizing asset management in your organization



Asset Management Champion



Asset Management Readiness Scale

Asset Management Readiness Scale
Section 1 - Policy and Governance

Michigan Infrastructure Council
Form Version 1.0
February 1, 2020

Organization: _____
Department: _____
Assets Reported On: _____

Policy and Governance: By developing this competency, your organization is putting in place policies and objectives related to asset management (AM), bringing those policies to life through a strategic approach, and then measuring progress and monitoring preparation over time.

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

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

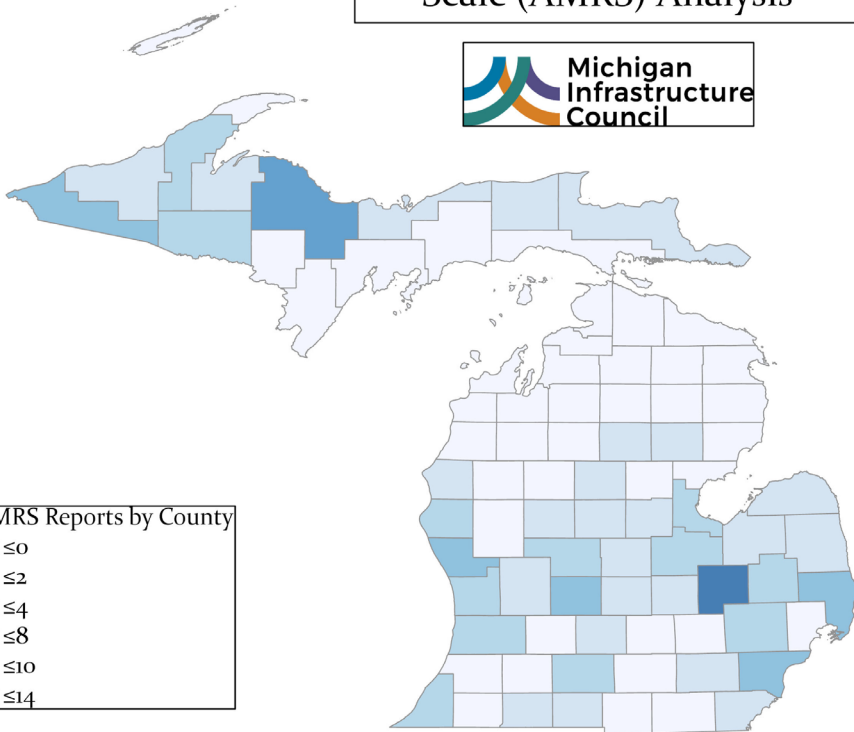
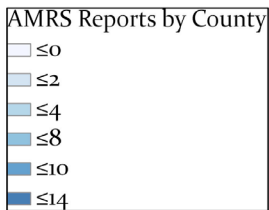
Outcome areas	Current State					Current Priority	Future State		
	Level 1	Level 2	Level 3	Level 4	Level 5		Year 1	Year 2	Year 3
A: Policy and objectives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0			

Outcome areas		Level 1		Level 2
A: Policy and objectives	<input type="checkbox"/>	Senior management and/or elected officials are committed to formalizing an AM program.	<input type="checkbox"/>	We have drafted an AM policy.
	<input type="checkbox"/>		Senior management and/or elected officials have endorsed the AM policy.	
Describe Current Actions				

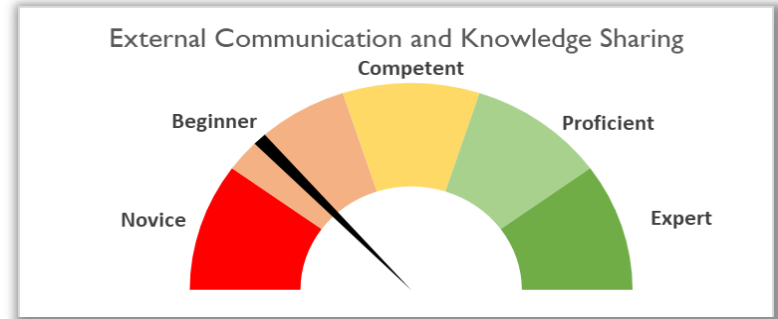
[Download the AMRS tool here.](#)

Asset Management Readiness Scale

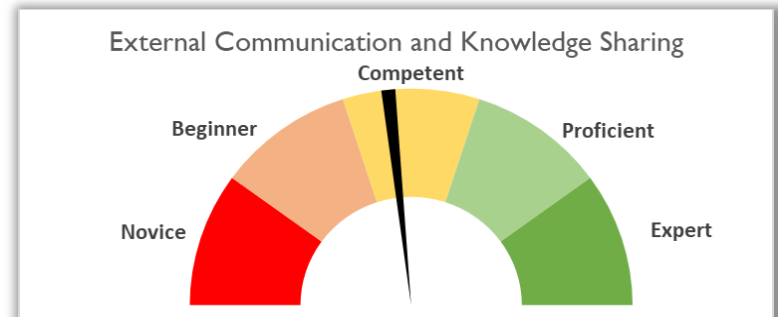
Asset Management Readiness Scale (AMRS) Analysis



Current State:

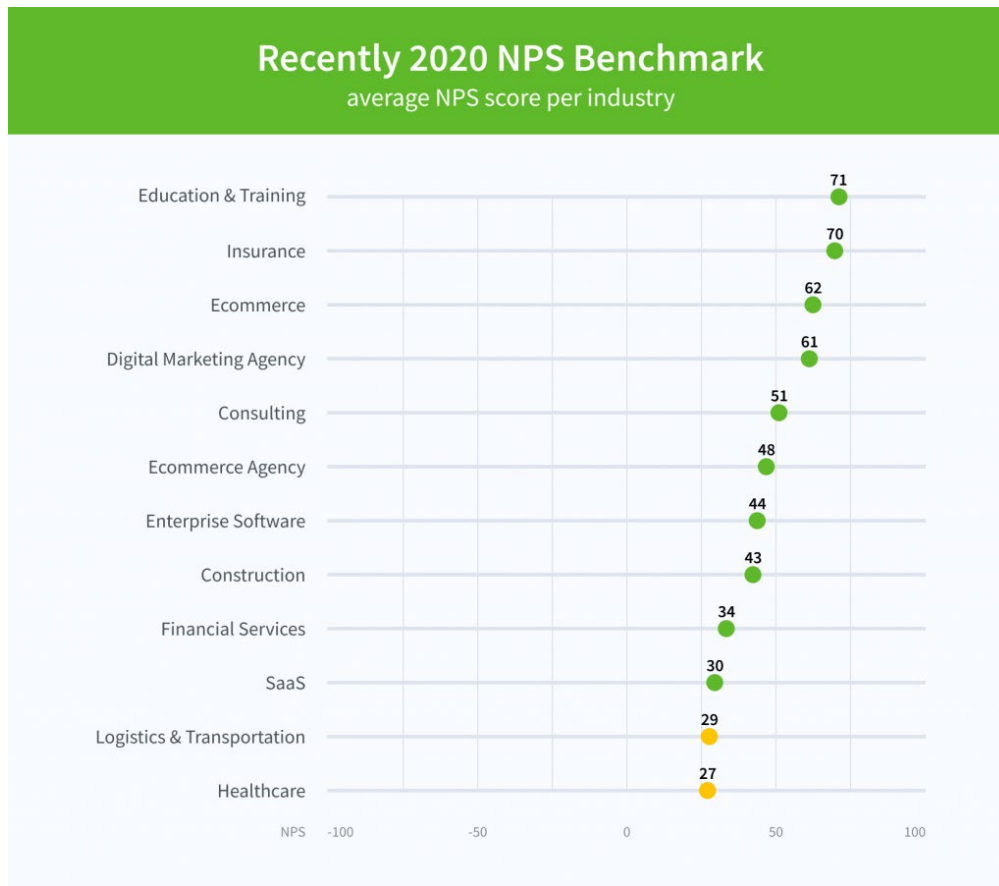


Future State (3-Year):



AM Champion Net Promoter Score

How likely are you to recommend this course to a friend or colleague?



71
Net Promoter
Score

33%
Referral Rate

“Dig Once” Project Portal

Challenges to Improved Coordination

- Proprietary Approaches
- Lack of Standards or Procedure
- Changing Workforce
- Time and Resources Constraints
- Lack of Technology and Resources

MIC Project Portal Solution

- Taking Lead on Coordination
- Standardized and Repeatable Approach
- Simple, Accessible, Free to use
- Leverages existing data when available

MIC Project Portal
Michigan Infrastructure Council

Map Layers

- Projects
- Opacity: [Slider]
- Only show projects owned by Technology, Management and Budget (DTMB)
- Project Types**
 - Communications
 - Transportation
 - Utility
 - Water
- Project Start Date Range**
 - All
 - 2028 and future years
 - 2027
 - 2026
 - 2025
 - 2024
 - 2023
 - 2022 and older
 - Current Projects
 - Completed Projects

Welcome to the Michigan Infrastructure Council Project Portal

The Michigan Infrastructure Council (MIC) Project Portal is to help coordinate infrastructure projects across multiple assets (for example, roads, bridges, drinking water and wastewater systems, storm water, gas and electric utilities, telecommunications).

Project List **Project Map**

Recent Activity **New Projects (11)** **Overlapping Projects (25)**

“Dig Once” Project Portal

How Does it Work:

The Portal analyzes the temporal and spatial relationships between user submitted GIS infrastructure investment plans to identify conflicts and opportunities in planned work.

Conflicts:

Overlapping Projects – Same place/Same Time

Opportunities:

Same Area/Different Times

Alignment and Staging

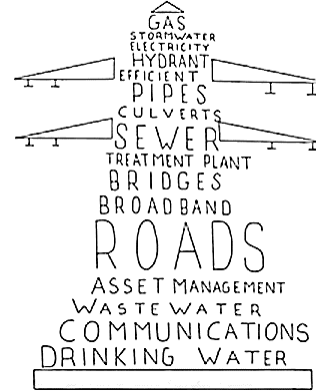
Similar Projects in Region

Bundling

Inspection and Inventory

Early notification for relocation activities

Retrofit – Adding sensors, metering



Reliable



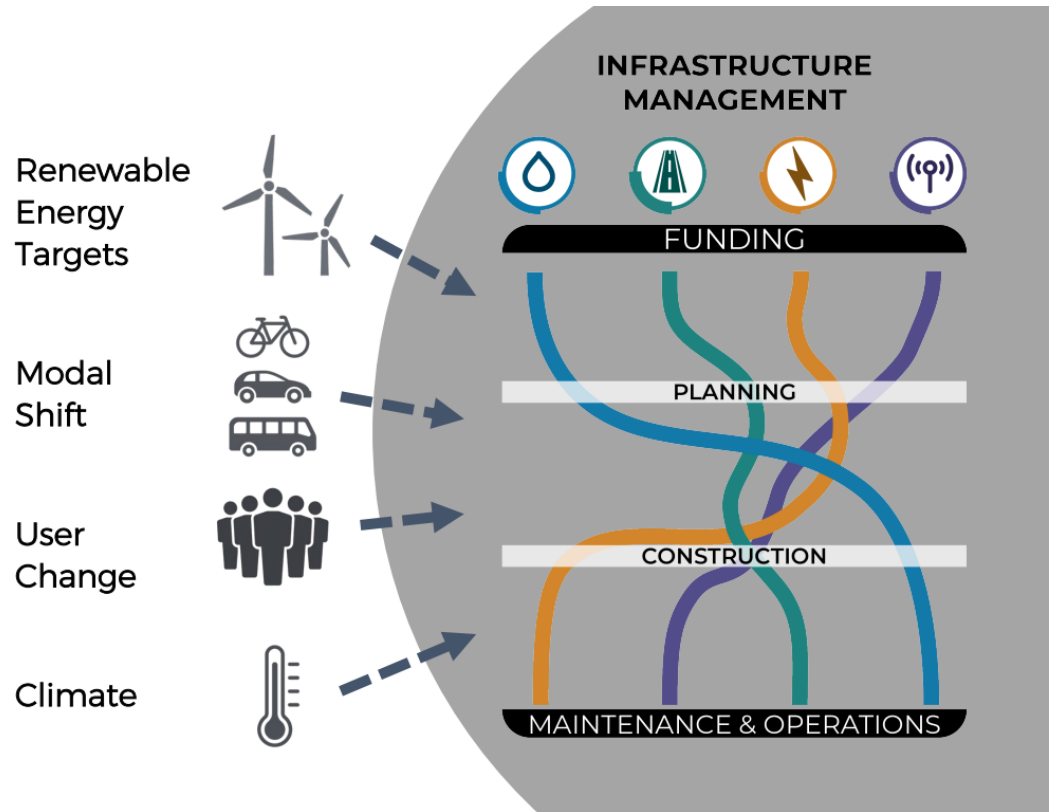
Cost - Effective

30-Year Integrated Infrastructure Strategy

Exploring challenges and opportunities to deliver safe, affordable and reliable infrastructure systems.

Identifying roles and responsibilities in creating meaningful change.

Building a culture of collaboration and data-driven decision making throughout the infrastructure industry.



30-Year Integrated Infrastructure Strategy

Challenges

“What are the challenges or potential changes/risks now and in the future?”



Opportunities

“How do we overcome challenges if there were no barriers or constraints?”



Strategies

“How do we prepare to make the right future decisions?”
“How do we balance opportunities in meeting future needs and addressing the needs of the system as it is today?”





Questions

Learn More:
Michigan.gov/MIC