

MICHIGAN INFRASTRUCTURE COUNCIL

MIC@Michigan.gov



MIC History

21st Century Infrastructure Committee (2016)



Asset Management Pilot (2017)



Public Act 323 (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

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"

See, 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 appurtenances 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 nerformance roals.

(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 and management recovery.

(e) "Asset owner" means a person that owns or operates an asset

(f) "Department" means the department of treasury.

(g) "Performance goals" means standards of system performance that reflect asset management principles for a preservation and sustainability, operations, 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:

(i) A regional planning commission created pursuant to 1945 PA 281, MCL 125.11 to 125.25.

(iii) A regional economic development commission created pursuant to 1996 PA 48, 30.1. 123.1231 to 123.1231.
(iii) A metropolitan area council formed pursuant to the metropolitan councils act, 1989 PA 292, MCL 124.651 to 124.799

(ie) A metropolitan planning organization established pursuant to federal law

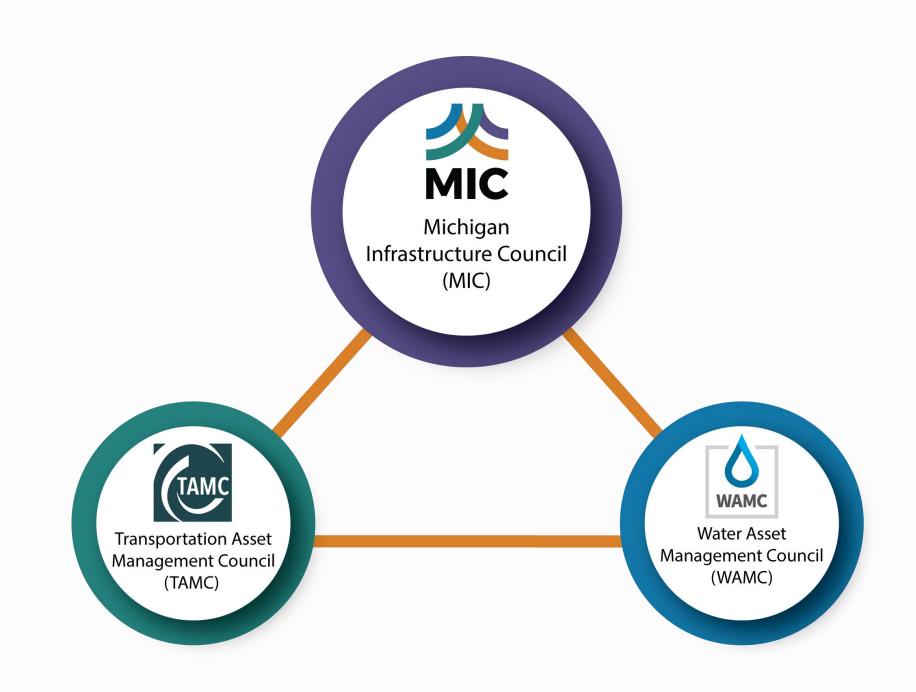
(164)

2018 Legislative Package

Establishes Michigan Infrastructure Council

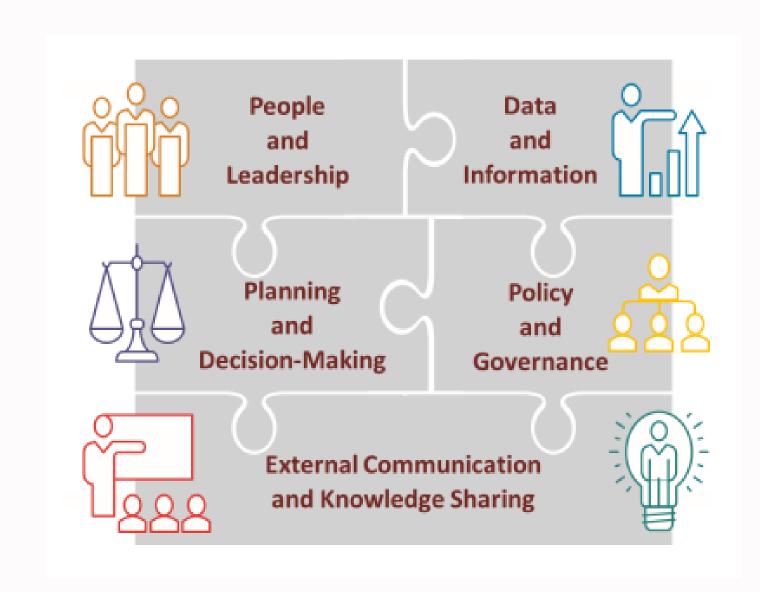
Establishes Water Asset Management Council

Places Transportation
Asset Management Council
within MIC structure



Asset Management

An ongoing process of maintaining, preserving, upgrading, and operating physical assets costeffectively, based on a continuous physical inventory and condition assessment and investment to achieve performance goals



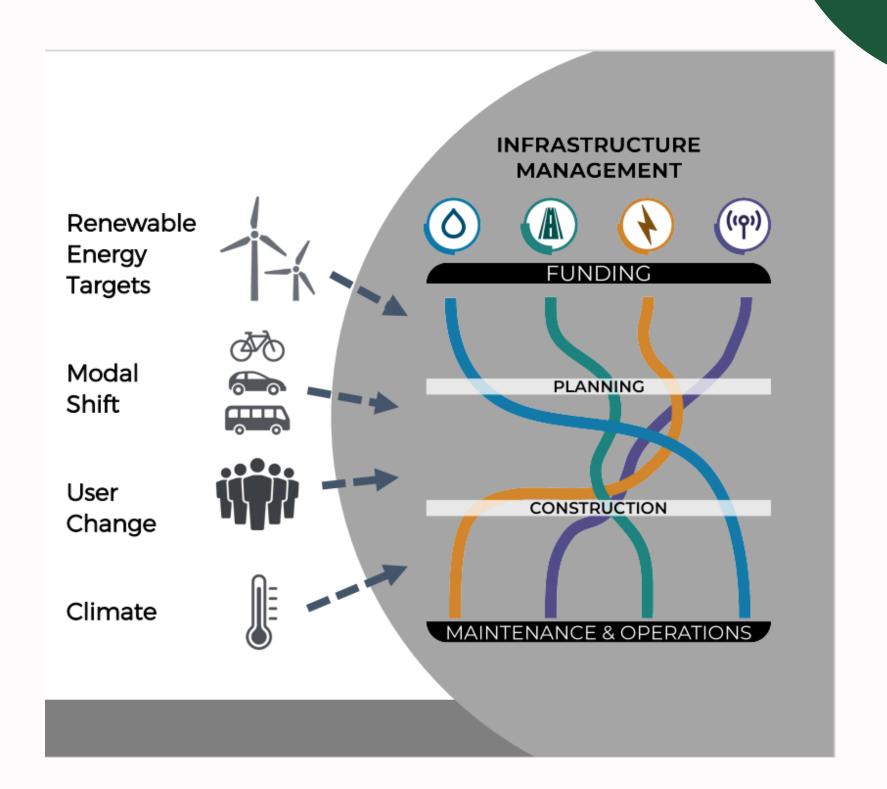


Modern asset management takes a proactive stance, shifting the focus from "break-fix" to "preserve and invest".

Inter-Agency Coordination

Infrastructure projects can have unintended consequences in areas outside the lead agency's purview. Inter-agency coordination helps identify and address these potential issues before they arise.

By working together, agencies can identify areas where their efforts can overlap or complement each other. This leads to more efficient use of resources and avoids duplication of efforts.



Programs

MIC Programs 2023/2024

Asset Management Readiness Scale

Free tool to assess agencies current asset management practices against industry best practices.

AM Champions Training

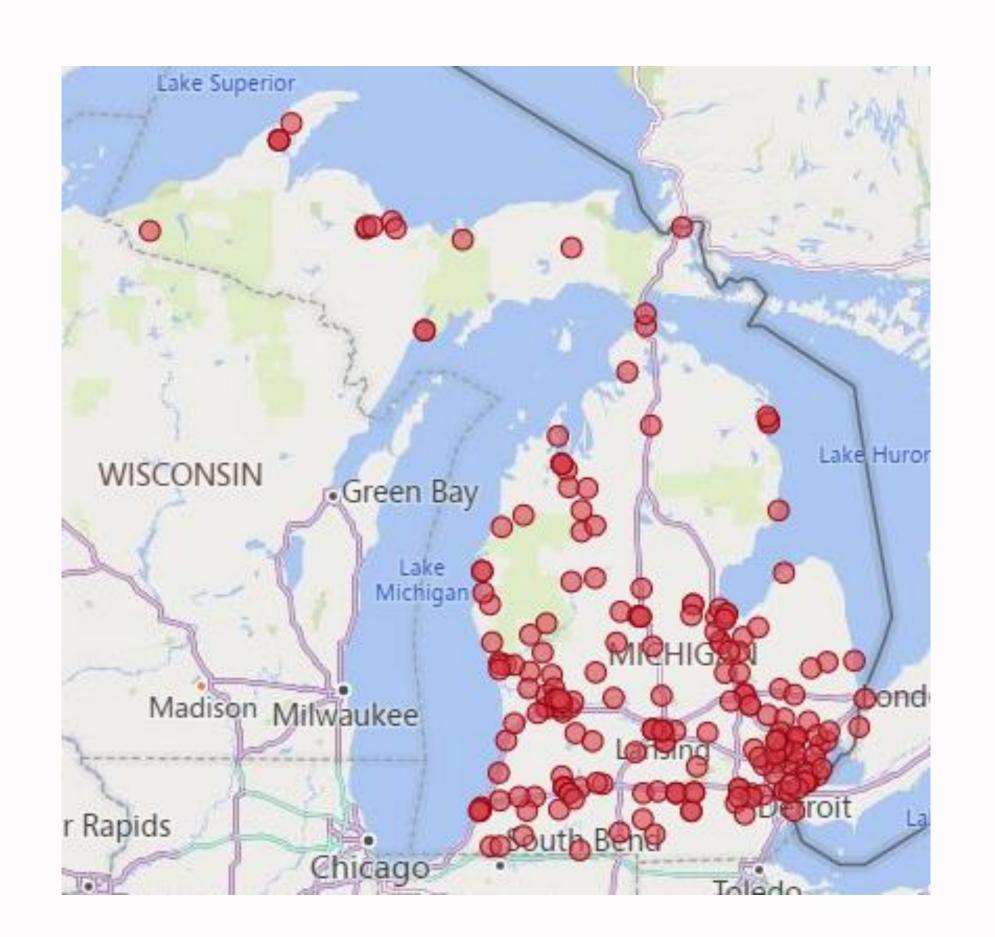
101 level asset management training for all public servants. Teaching the big picture of asset management and helping understand individual roles.

Project Portal

Collaborative Geographic Information System (GIS) for sharing capital improvment plans among private and public infrastructure owners.

30-Year Integrated Infrastructure Strategy

Long-term strategies for overcoming current infrastructure sitation and putting measures in place that eliminate its recurrance.





WATER ASSET MANAGEMENT COUNCIL (EGLE)



Collecting Data on Drinking Water, Stormwater, and Sewer Infrastructure and asset management plans from 800+ water system owners



Report to the Legislature on asset condition of drinking water, wastewater, and stormwater assets



Develop recommendations for condition goals and track how utilities are meeting those goals.

Stormwater Flooding

Overland Flows

Development replaces natural landscapes like forests and fields with buildings, roads, and sidewalks. These surfaces are impervious, meaning they don't allow water to infiltrate the soil. Rain hitting these surfaces runs off quickly instead of soaking in, increasing overland flow.

Rising Lake Levels

Low lying communities near the great lakes facing significant threats due to the potential for rising lake levels due to changes in weather patterns.

Mechanical Flooding

Many communities in Michigan rely on electric pumps to move stormwater against gravity for treatment and removal. When electric fails during heavy storms, floods ensue.

Capacity Flooding

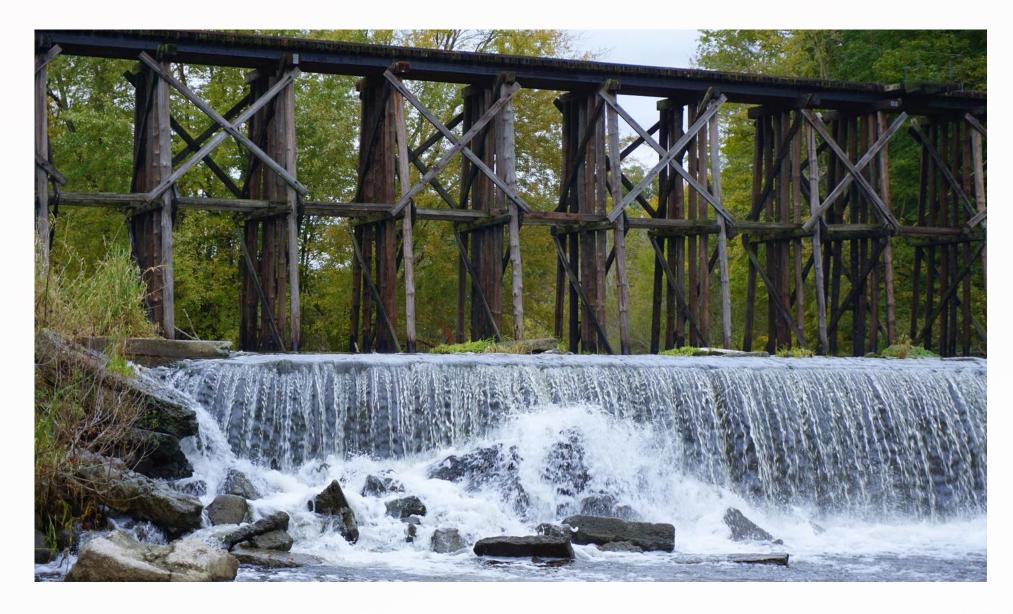
Michigan's flood infrastructure is inadequately sized to for current conditions or lack of maintenance has limited capacity of existing system rendering it inadequate











Stormwater Challenges

Dedicated Funding Sources

Many Michigan communities lack dedicated funding sources for stormwater systems. Unlike water and sewer systems that often have user fees, stormwater management relies on a patchwork of funding sources, including property taxes and general funds



Our dams, channels, culverts, and CSO/SSO infrastructure is aging and near the end of their useful life. In some cases deferred maintenance has pushed these assets beyond repair to replacement only strategies.

Regional Problems with Local Solutions

Patchwork solutions and projects fail to address the big picture for our watersheds.

Public Perception

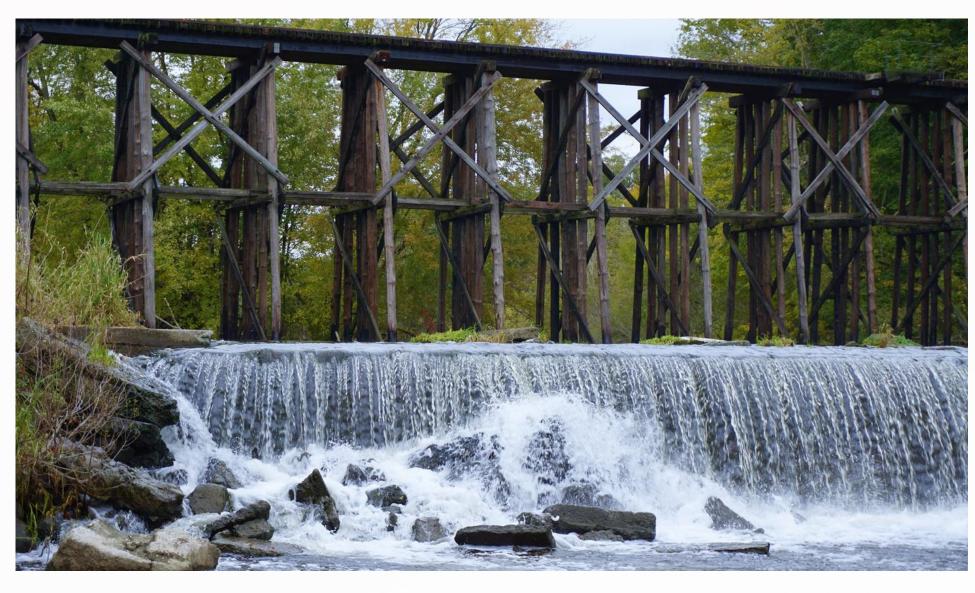
Stormwater management is often seen as a less urgent issue compared to drinking water or wastewater treatment. This can lead to lower public support for funding initiatives











Stormwater Opportunities

Improved Data and Planning

Improving understanding and investment needs of infrastructure by collecting condition, performance, and consequence of failure data.

Green Infrastructure

Improving stormwater absorption locally by utilizing green infrastructure that slows stormwater runoff and promotes local absorption into soil.

Sewer Seperation

In many places, stormwater infrastructure is combined with wastewater/sewer systems (CSS). Seperating these systems provides opportunity to right size stormwater systems without compromising sewer infrastructure.

Data Driven Decision Making

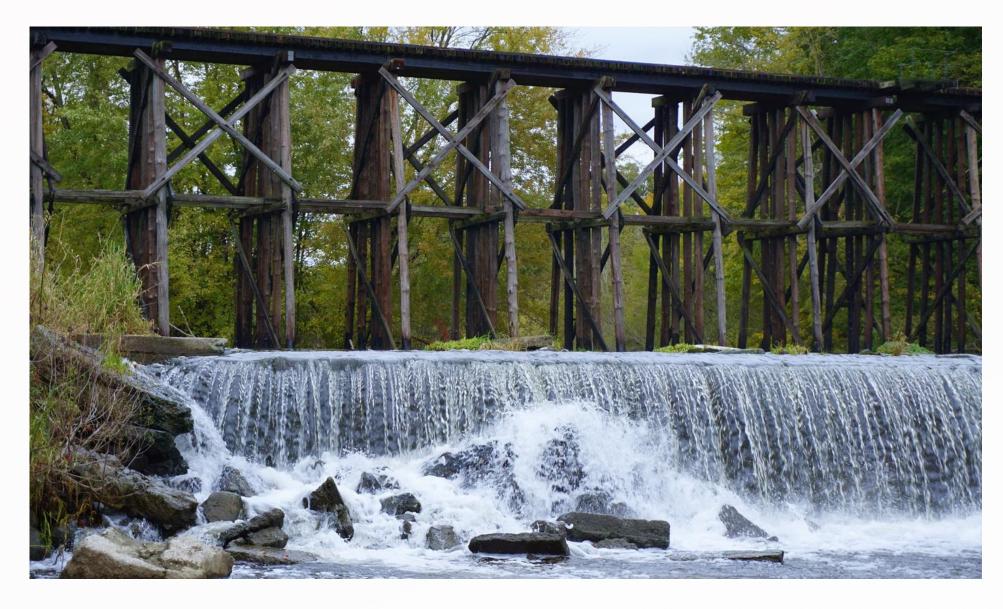
Improved situational awareness combined with modern software and emerging technology provides opportunities to effectively scope and prioritize investments in a manner that minimizes risks.











THANK YOU



Chair - Michigan Infrastructure Council

Founder/CEO - Mode Collective



