



MICHIGAN INFRASTRUCTURE COUNCIL

MIC@Michigan.gov

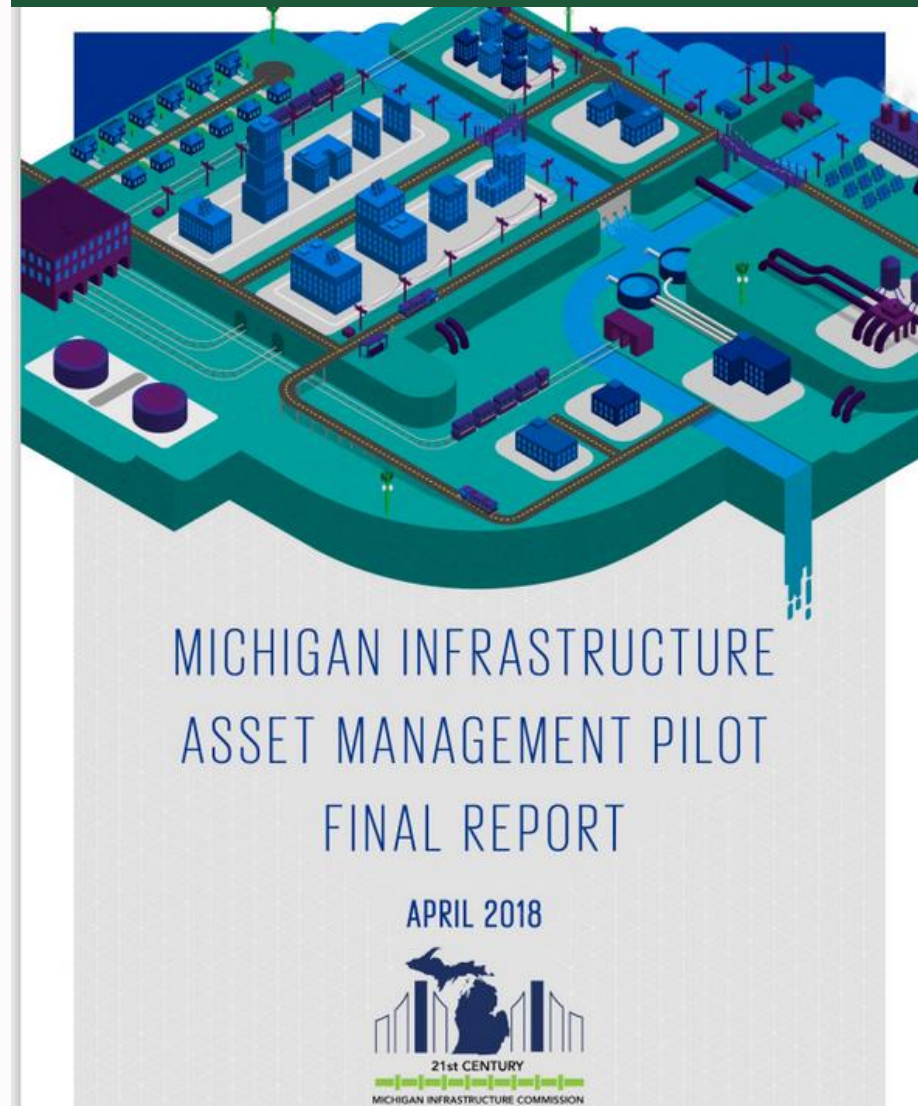


MIC History

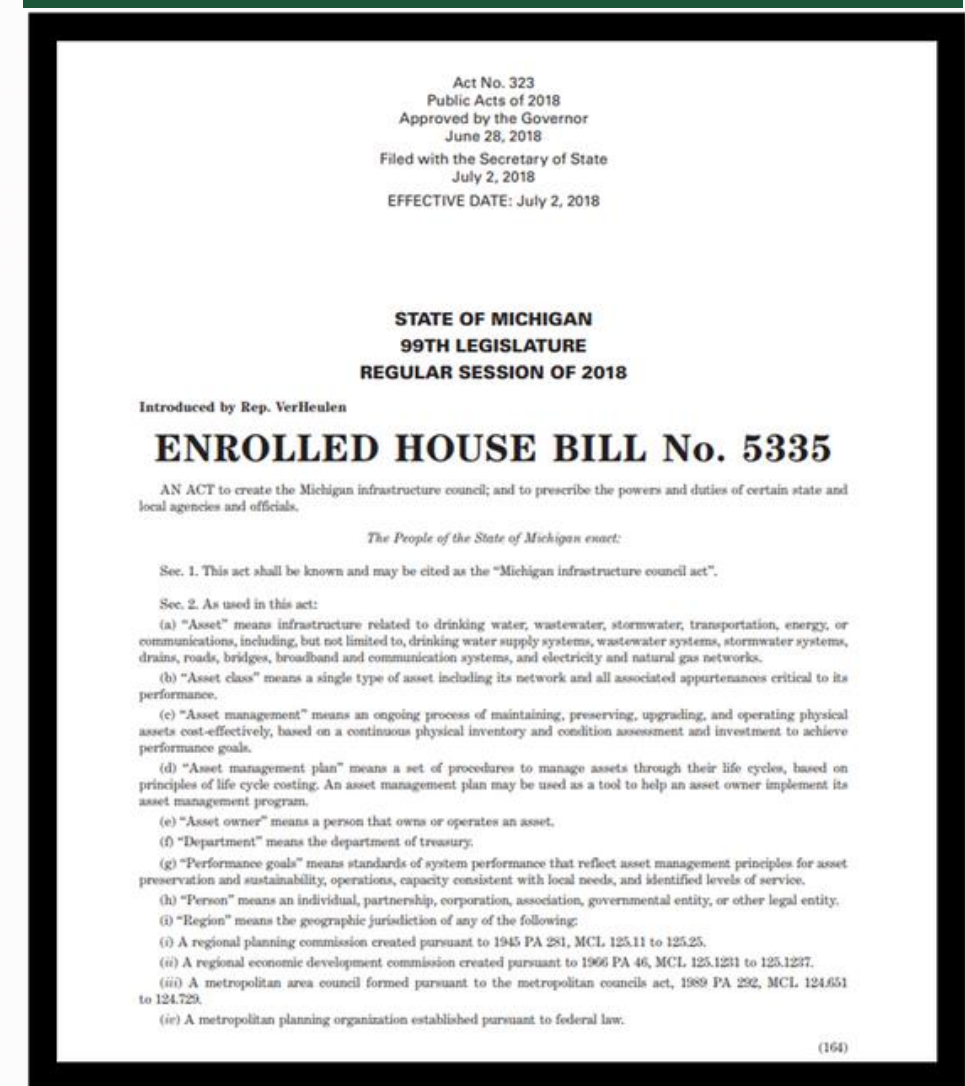
21st Century Infrastructure Committee (2016)



Asset Management Pilot (2017)



Public Act 323 (2018)

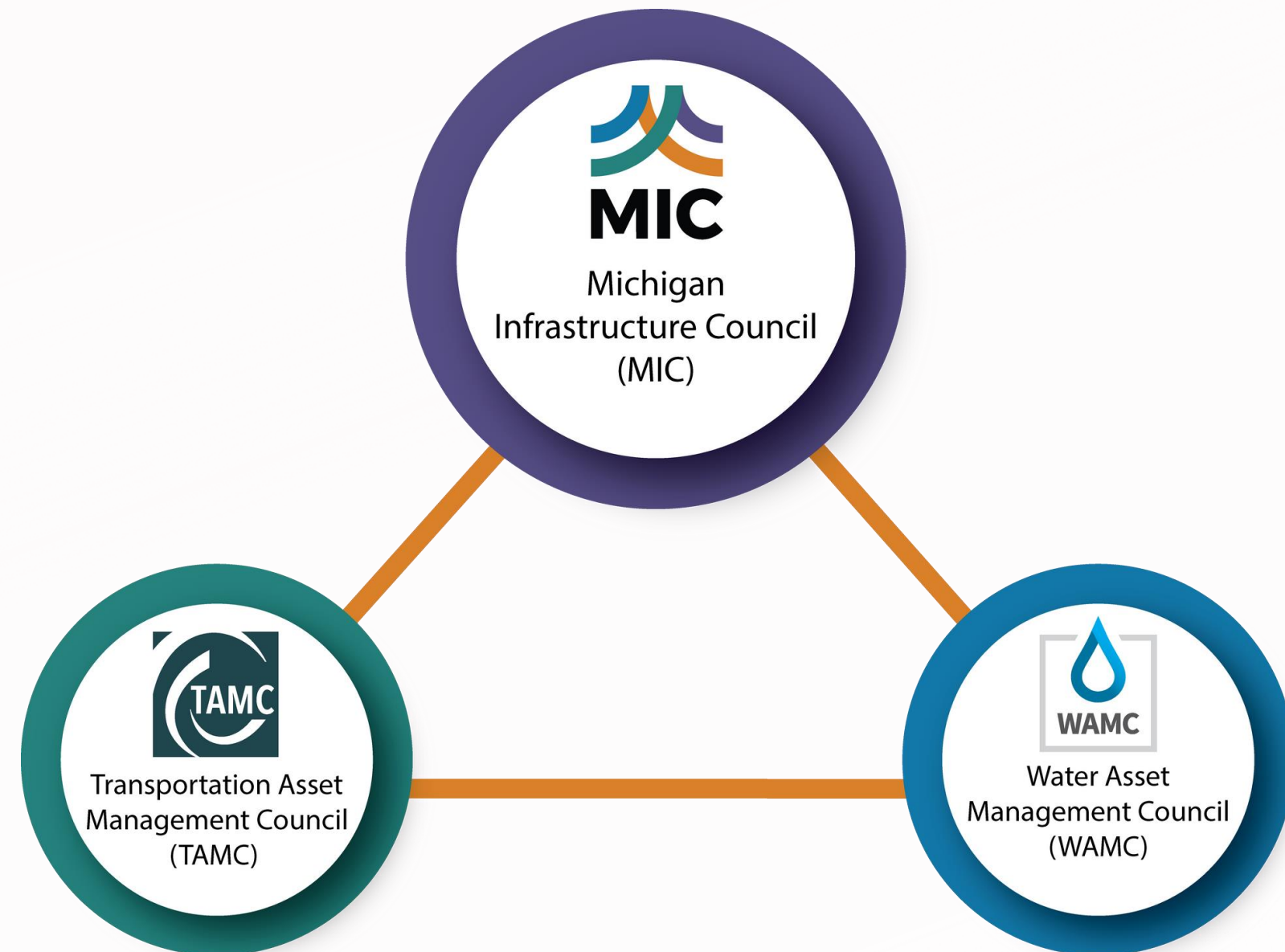


2018 Legislative Package

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 cost-effectively, based on a continuous physical inventory and condition assessment and investment to achieve performance goals



**SMART INVESTING
MITIGATION SAVES**

**EVERY \$1
SPENT ON
MITIGATION,
SAVES \$6
ON FUTURE
DISASTER
LOSSES**

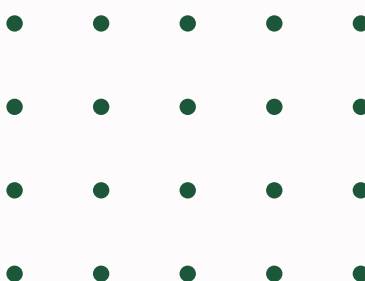
The infographic features a stack of green banknotes with a white plus sign in a green circle above them. An orange curved arrow points from the text box to the stack of money.

Natural Hazard Mitigation Saves: 2017 Interim Report
nibs.org/mitigationsaves

National Institute of BUILDING SCIENCES

FEMA

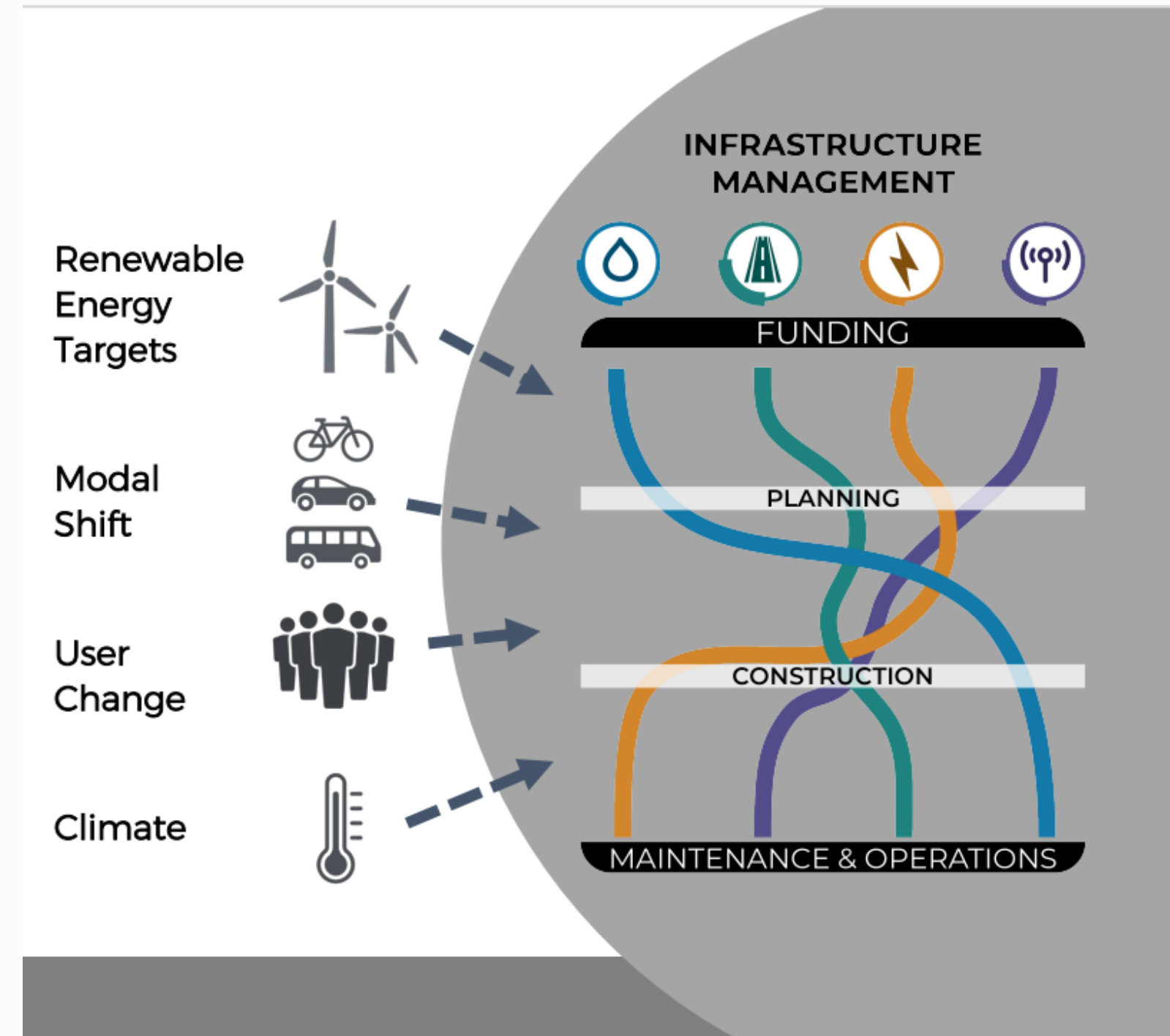
Modern asset management takes a proactive stance, shifting the focus from "break-fix" to "preserve and invest".



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

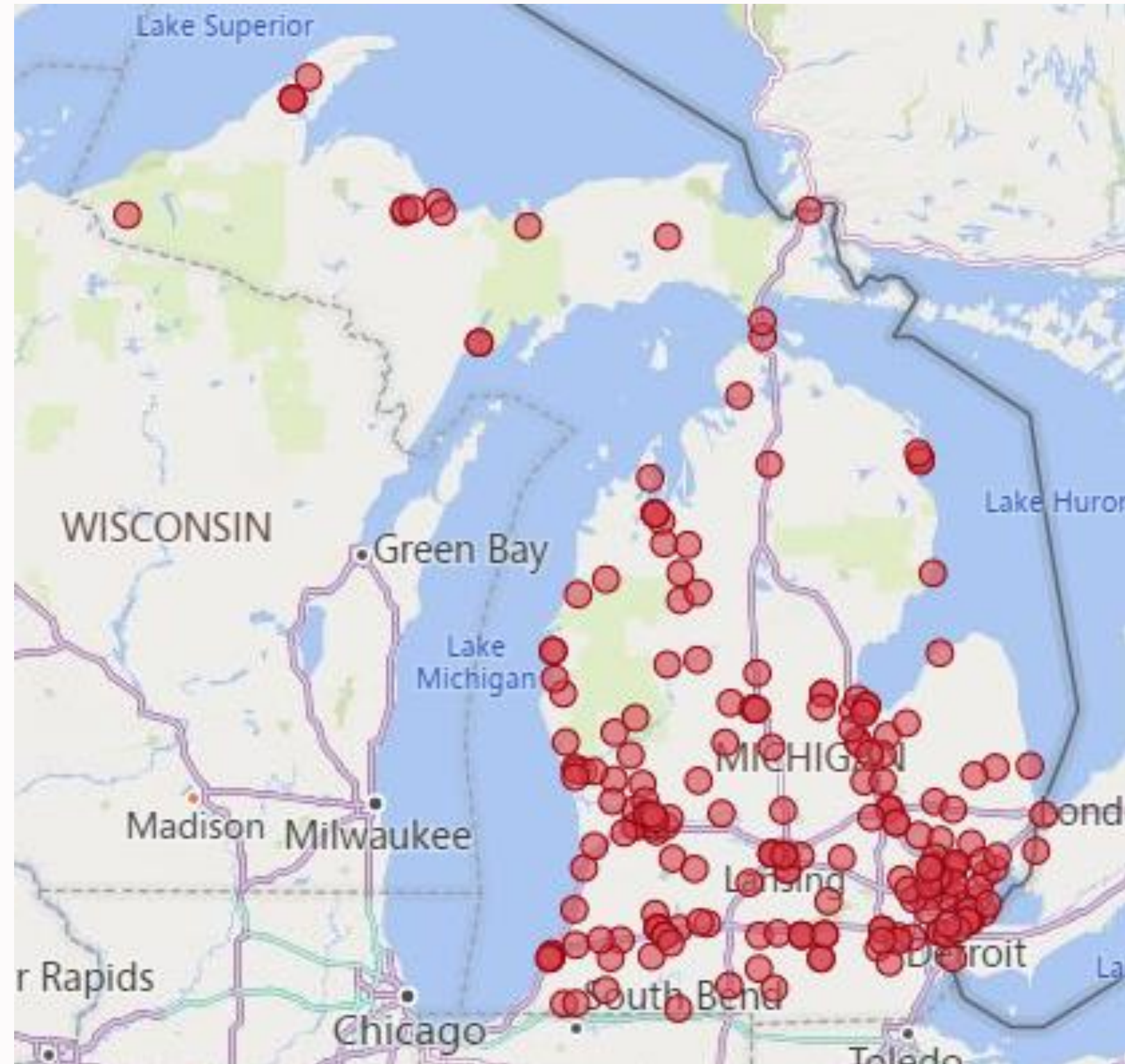
101 level asset management training for all public servants. Teaching the big picture of asset management and helping understand individual roles.

Project Portal

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

30-Year Integrated Infrastructure Strategy

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





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



Aging Infrastructure/Deferred Maintenance

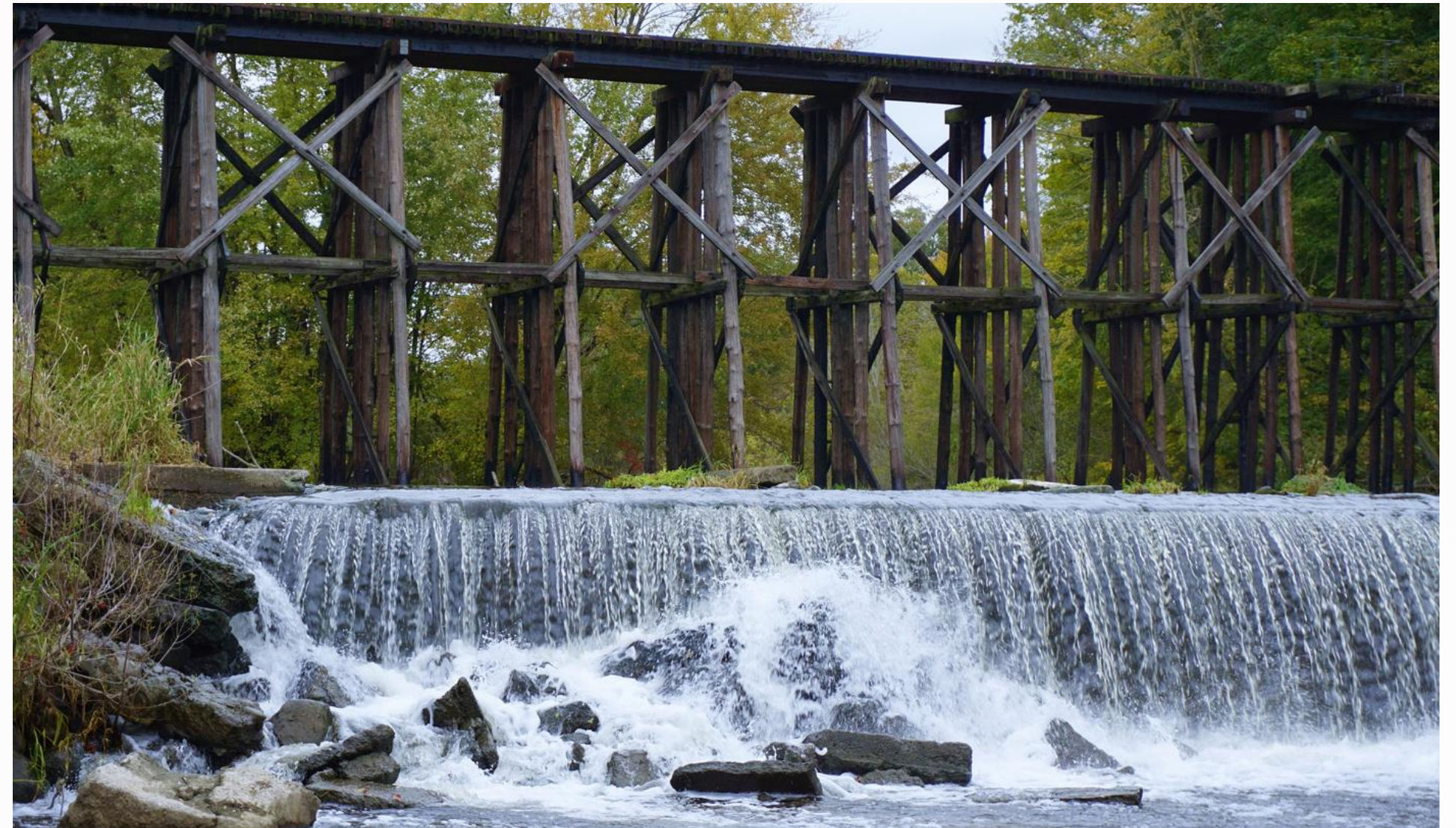
Our dams, channels, culverts, and CSO/SSO infrastructure is aging and near the end of their useful life. In some cases deferred maintenance has pushed these assets beyond repair to replacement only strategies.

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 Separation

In many places, stormwater infrastructure is combined with wastewater/sewer systems (CSS). Separating 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

Palencia Mobley P.E.

Chair - Michigan Infrastructure Council

Founder/CEO - Mode Collective

