



Michigan Infrastructure Council

10/9/2023

Resilience Advisory Task Force



History: Executive Order 2016-5



STATE OF MICHIGAN
EXECUTIVE OFFICE
LANSING

RICK SNYDER
GOVERNOR

BRIAN CALLEY
LT. GOVERNOR

EXECUTIVE ORDER No. 2016 - 5

CREATION OF THE 21ST CENTURY INFRASTRUCTURE COMMISSION EXECUTIVE OFFICE OF THE GOVERNOR

WHEREAS, Section 1 of Article V of the Michigan Constitution of 1963 vests the executive power of the state of Michigan in the Governor; and

WHEREAS, Section 4 of Article V of the Michigan Constitution of 1963 authorizes the establishment of temporary commissions or agencies for special purposes; and

WHEREAS, under Section 1 of 1931 PA 195, being MCL 10.51, the Governor may, at such times and for such purposes as the Governor deems necessary or advisable, create special advisory bodies consisting of as many members as the Governor deems appropriate; and

WHEREAS, Section 17 of Article V of the Michigan Constitution of 1963 empowers the Governor to present to the Legislature information as to the affairs of the state and recommend measures that he considers necessary or desirable; and

WHEREAS, sound and modern infrastructure is vital to the health and well-being of the people of Michigan, as well as Michigan's economy and vibrant communities to continue and accelerate our economic comeback, we must preserve, maintain, and improve our infrastructure now and in the future; and

WHEREAS, citizens expect state and local government to provide safe and cost-effective access to transportation, water and sewer, wastewater treatment and drainage, energy, communications, and other services; and

WHEREAS, Michigan is building automobiles for the 21st century and therefore must have a 21st century transport systems to move people and goods yet over 1,200 Michigan bridges are structurally deficient and over 1,700 are functionally obsolete; and

WHEREAS, outdated water and sewer infrastructure represent potential significant health hazards and costs to citizens and government; and



Executive Directive 2017-1



STATE OF MICHIGAN
EXECUTIVE OFFICE
LANSING
EXECUTIVE DIRECTIVE
No. 2017-1

RICK SNYDER
GOVERNOR

BRIAN CALLEY
LT. GOVERNOR

DATE: April 3, 2017

TO: The Michigan Department of Environmental Quality (MDEQ), the Michigan Department of Natural Resources (MDNR), the Michigan Department of Transportation (MDOT), the Michigan Agency on Energy (MAE), the Michigan Public Service Commission (MPSC), the Michigan Department of Technology, Management and Budget (DTMB), the Department of Talent and Economic Development (TED), and the Michigan Department of Agriculture and Rural Development (MDARD)

FROM: Governor Rick Snyder

RE: Regional Infrastructure Asset Management Pilot

On March 10, 2016, I created the 21st Century Infrastructure Commission through Executive Order 2016-5 to develop a bold and visionary plan that addresses not only how we can fix our infrastructure today, but also where we want our infrastructure to be fifty years from now. Sound and modern infrastructure is vital to the health, well-being, and prosperity of the people of Michigan. As Michigan's economy and vibrant communities continue to accelerate our economic comeback, we must find solutions to preserve, maintain, and improve our infrastructure now and in the future. The 27-member Commission included individuals representing the business, government, nonprofit, and academic communities with particular expertise and experience in infrastructure. The Commission delivered their 110 comprehensive recommendations on November 30, 2016.

Throughout its work, the 21st Century Infrastructure Commission encountered a set of key issues that impact all areas of Michigan's vast infrastructure system. As a first step, the state must identify a strategic way to better manage our infrastructure in order to make informed decisions. The Commission recommended we accomplish this through creation of a Michigan Infrastructure Council to oversee an integrated asset management system, coordination, strategy, and investments.



MICHIGAN INFRASTRUCTURE ASSET MANAGEMENT PILOT FINAL REPORT

APRIL 2018



Michigan
Infrastructure
Council

History: Public Act 323 of 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 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 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 goals" means standards of system performance that reflect asset management principles for asset 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:

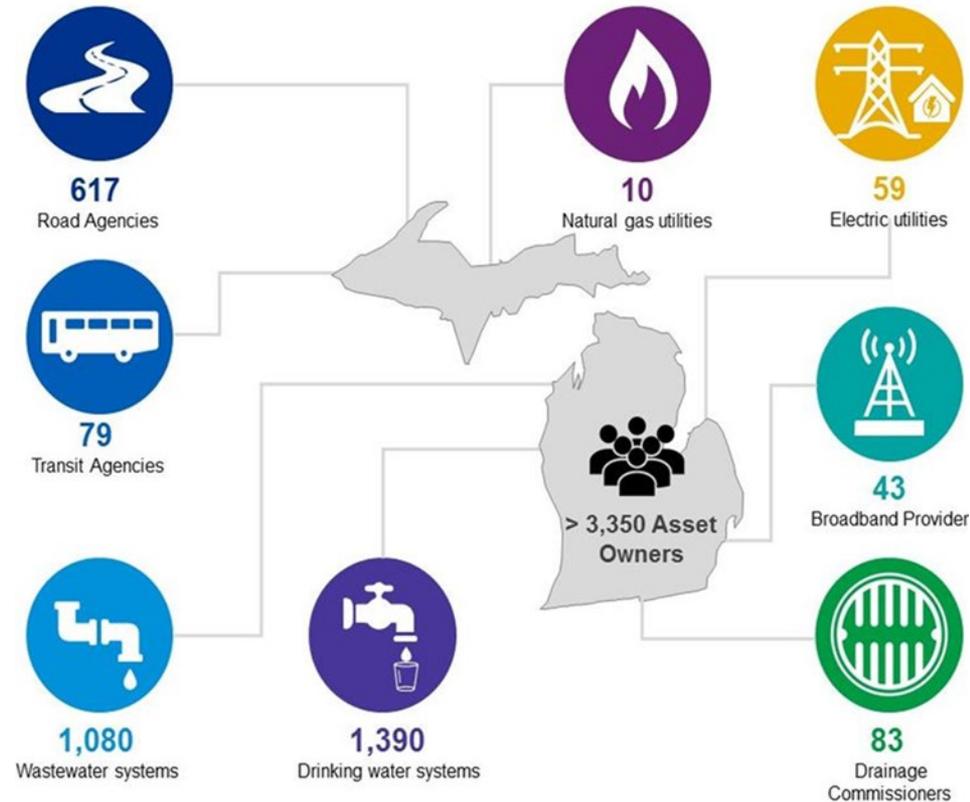
(i) A regional planning commission created pursuant to 1945 PA 281, MCL 125.11 to 125.25.

(ii) A regional economic development commission created pursuant to 1966 PA 46, MCL 125.1231 to 125.1237.

(iii) A metropolitan area council formed pursuant to the metropolitan councils act, 1989 PA 292, MCL 124.651 to 124.729.

(iv) A metropolitan planning organization established pursuant to federal law.

(164)



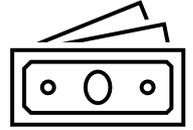
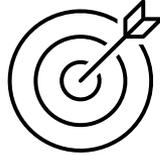
Mission

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.

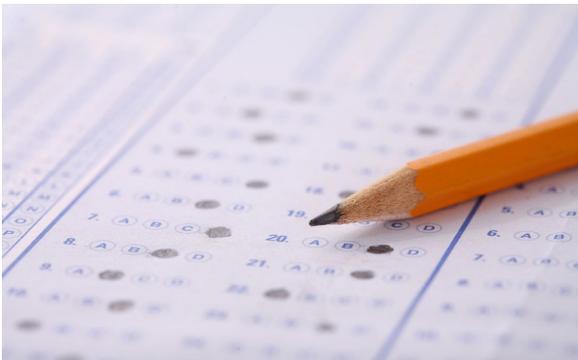
MIC Initiatives



**Asset Management
Champions Training**



“Dig Once” Project Portal



**Asset Management
Readiness Self-Assessment**

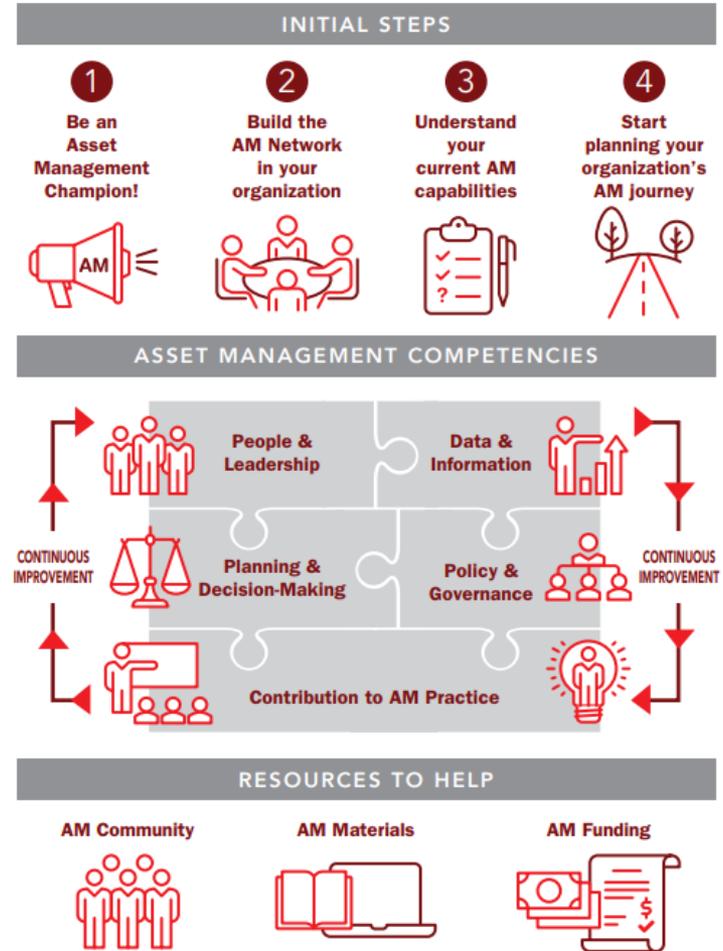


**30-Year Integrated
Infrastructure Strategy**

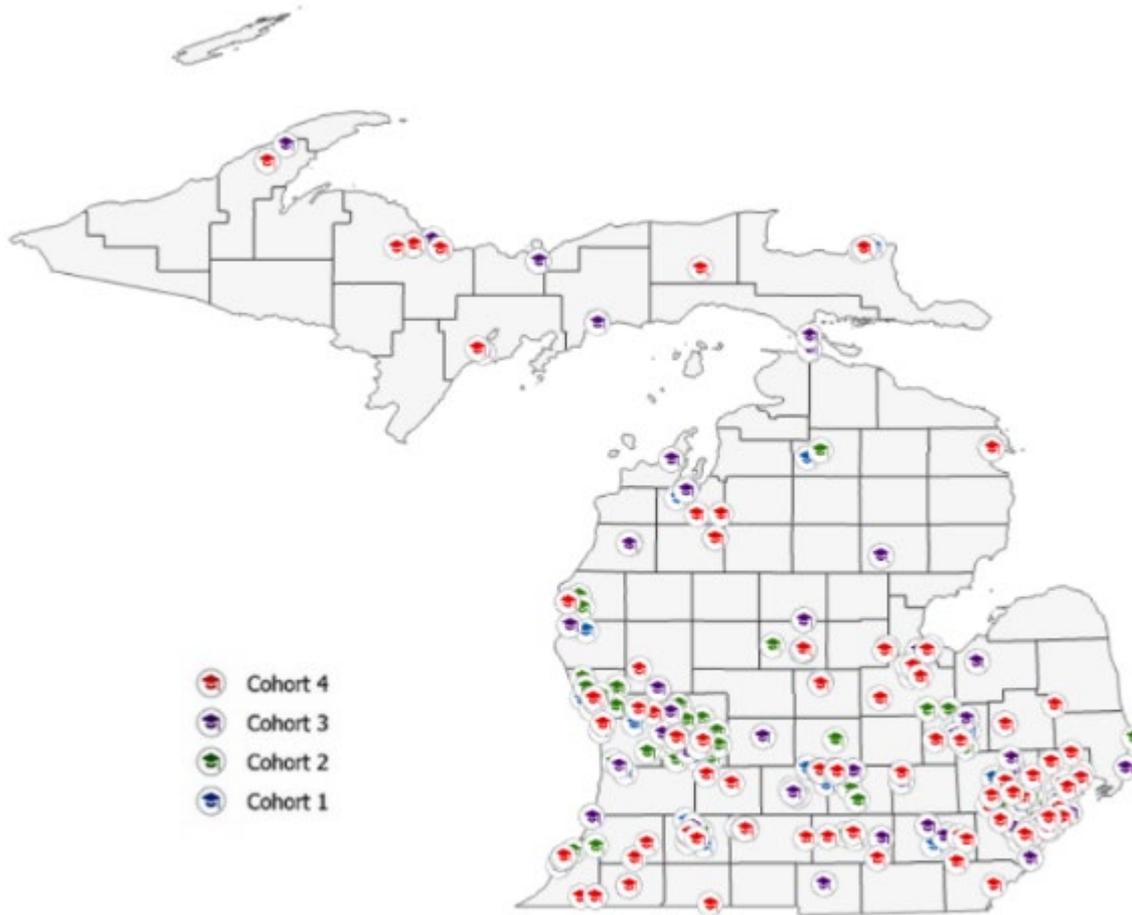
MIC AM Champion Objectives

- **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

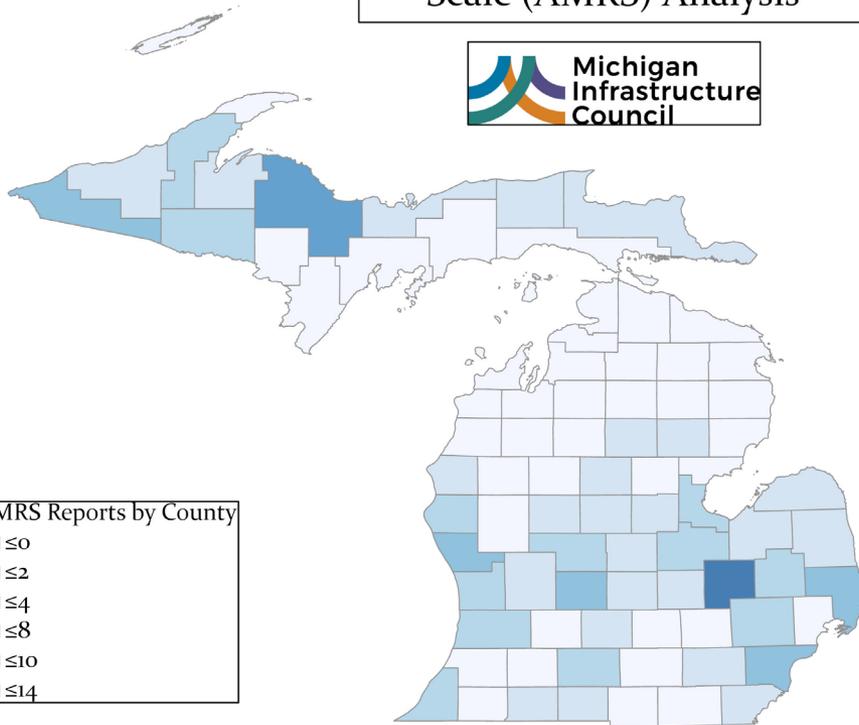
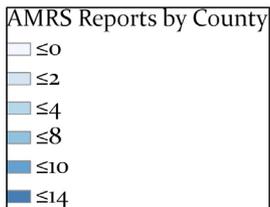


Asset Management Champion

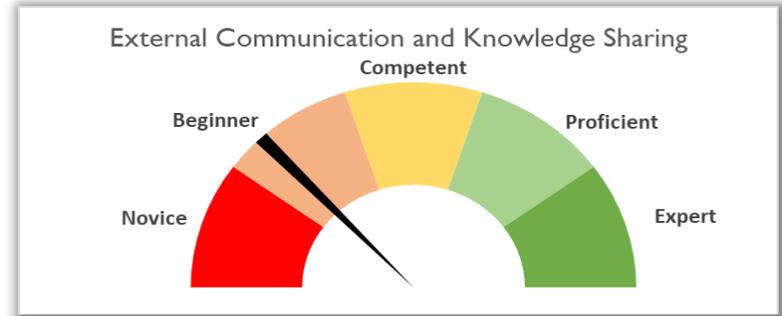


Asset Management Readiness Scale

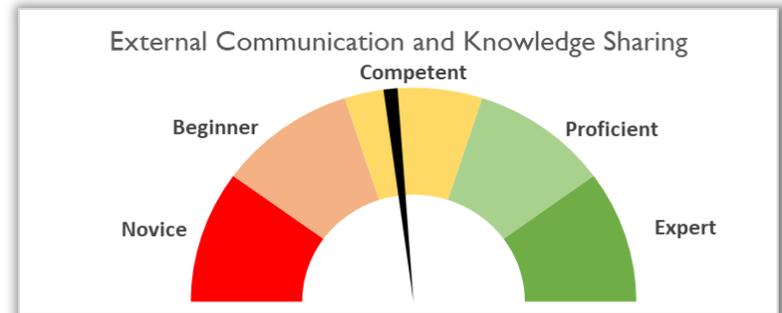
Asset Management Readiness Scale (AMRS) Analysis



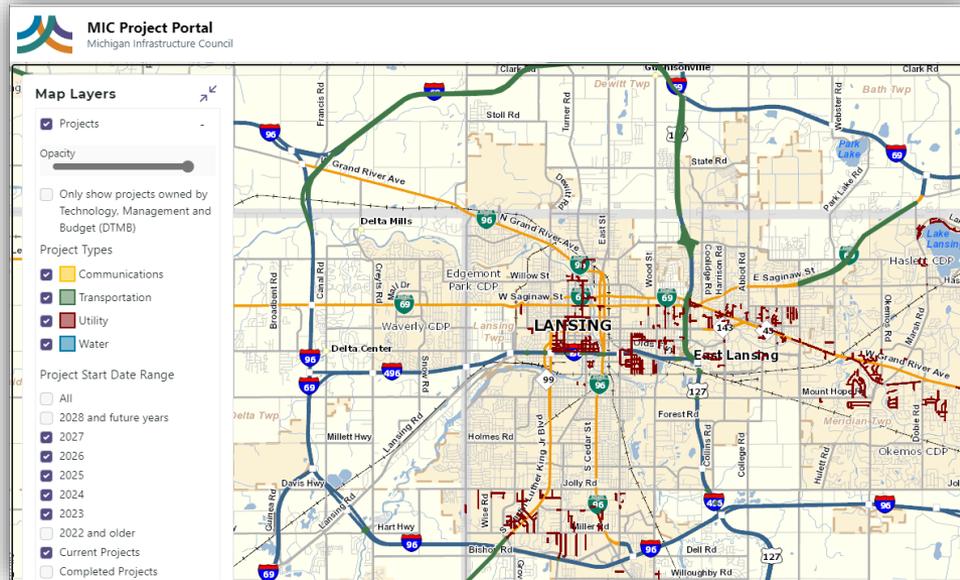
Current State:



Future State (3-Year):



“Dig Once” Project Portal



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.

Benefits:

- Project savings and avoided delays
- Improved workforce utilization and safety
- Proactively notify impacted parties years in advance of delivery.
- Dedicated workspace for coordination activities. (Connecting owners, customized coordination workflows, timely resolution)
- Repeatable and Teachable
- Simple and Interoperable



30-Year Integrated Infrastructure Strategy



Coming Soon....

The **Strategy** will encourage community discussion, guide prioritization, promote sound investments, and minimize citizen inconvenience through more coordination and collaboration that can enhance infrastructure performance and improve quality of life for Michigan's residents.

The **Strategy** looks to develop a more holistic and comprehensive approach to statewide infrastructure developed through consultation with all stakeholders and users of our infrastructure systems.

Challenges Faced

- Awareness - Spring/Fall Summits 2018
- Integrating into state government operations
- Pandemic
- Lack of existing precedent in other States.
- Changes in administration.
- Sustainable funding.



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Best Practices

- Include both public and private infrastructure owners
- Involve state departments early in conversations.
- Use pilots to illustrate the business case. Real world examples move mountains.
- Establish goals early, be unwavering.
- Work across all levels of government. Appreciate existing regional organizations.
- Work across the isle, infrastructure should be bi-partisan.



Questions?

