



What Lies Beneath: Developing a 30-Year Infrastructure Strategy for Michigan

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Infrastructure Impacts all Michiganders

Public Health and Quality of Life

- Clean and safe drinking water
- Safe and faster commutes

Economic Prosperity

- Business relies on efficient and effective infrastructure
- Unplanned and “emergency” fixes are expensive

Healthy Environment

- Preservation of unique natural resources



Michigan's Infrastructure is Challenged

- Expansive and Complex Network
- Aging and in need of costly repairs/replacements
- Limited and unsynchronized funding sources
- Siloed ownership
- Uncoordinated repair cycles



How is Michigan Different? Executive Support

21st Century Infrastructure Commission

- Long-term vision and recommendations across transportation, water, energy, and communications



Infrastructure Asset Management Pilot

- Focused, cross-asset inventory and assessment in 16 West and Southeast Michigan Counties



Current Administration

- Roads and Bridges
- \$105 million investment in water infrastructure (2020)

INFRASTRUCTURE



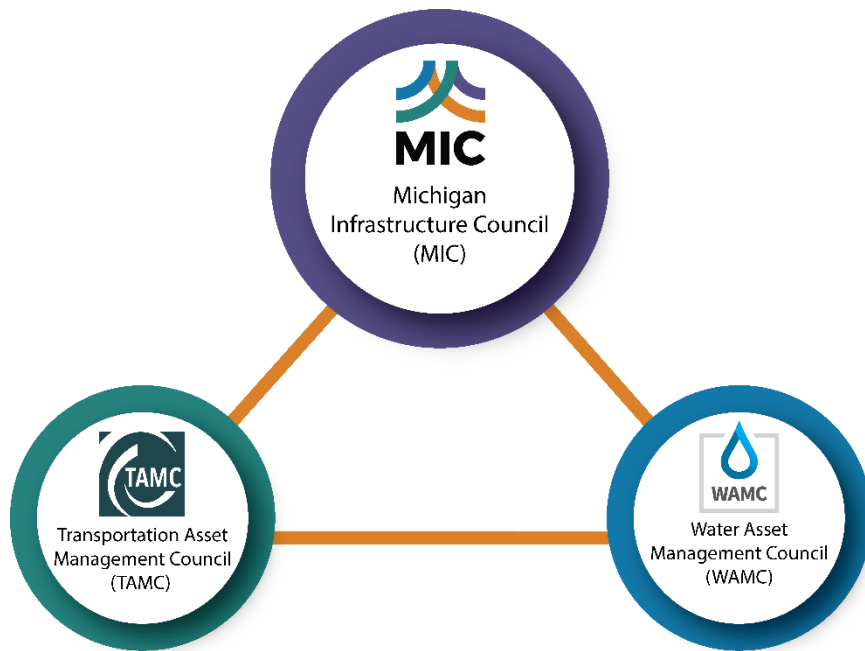
Fixing Roads And Building Bridges

*"We are all paying to fix
our cars when we should
be paying to fix the road."
- Governor Whitmer*

How is Michigan Different? Integrated Approach



How is Michigan Different? Integrated Approach



Water Asset Management Council

- Drinking Water
- Wastewater
- Stormwater

Transportation Asset Management Council

- Roads
- Bridges
- Culverts
- Signals

How is Michigan Different? Integrated Approach

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



Fall Summits – By the Numbers

12 summits in **12** communities over **6** weeks*

Over 500 participants

* 2 Summits postponed to early 2020

How is Michigan Different? Asset Management



<https://fcm.ca/en/resources/mamp/video-why-invest-in-asset-management>



“Managing Assets” vs “Asset Management”

- **Managing Assets** (things you do to assets) can be done with or without strategy and organizational context
- **Asset Management** has a broader focus than Managing Assets, encompassing many organizational levels and applying to all functions or departments.

Managing Assets focuses on...	Asset Management focuses on...
<ul style="list-style-type: none">• Lifecycle activities and asset care - availability, reliability, dependability and safety• Asset location, condition, life extension and/or interventions• Asset databases, systems (and IT) and performance• People, skills and work management• Budgets and key performance indicators (KPIs) / cost of maintenance and current performance	<ul style="list-style-type: none">• The purpose of your organization and what assets does it need – and why• Value, purpose and long-term outcomes• Risk and context e.g. markets / climate / regulation• Holistic approach to different funding streams e.g. capital and operating?• Collaborative behaviors - breaking down silos both internal and supply chain?• How assets contribute to organizational value

Asset Management is about MUCH more than ‘Managing Assets’

Source: ISO 55000
TC251 Committee

Key Initiatives



- **Asset Management Readiness Assessment Scale**
- **MIC “Dig Once” Project Portal**

Asset Management Readiness Assessment Scale

- Affirms the 5 Asset Management Competencies
- Value to Asset Owners:
 - Assess and baseline current ability through “Readiness Levels”
 - Set future state “target goals”
 - Systematic reassessment
- Value to Michigan:
 - Captures consistent statewide metrics
 - Prioritize infrastructure resources



Asset Management Readiness Assessment Scale

Asset Management Readiness Scale

Form Version 1.0
February 3, 2020

Organization Information

Organization Name _____
 Department (if applicable) _____
 EIN (if publicly available) _____
 Address _____
 City, State, Zip _____
 County (Select from dropdown) _____
 Region (Based on county selected from dropdown above) **Select County**
 Submission Contact (Please share your completed spreadsheet with your region) **Select County**

Organization Representative Contact Information

Name _____
 Phone _____
 Email _____
 Completion Date (Format MM/DD/YYYY) _____

Demographic Information

What Asset(s) do you own and/or manage? (select all that apply)

Transportation: Roads/Bridges
 Drinking Water
 Wastewater
 Storm Water
 Gas Utilities
 Electric Utilities
 Communications/Powerplant

Asset Management Readiness Scale

Section 1 - Policy and Governance

Michigan Infrastructure Council

Form Version 1.0
February 3, 2020

Organization: _____
Department: _____
Assets Reported On: Transportation: Roads/Bridges/Signals/Culverts, Drinking Water, Wastewater

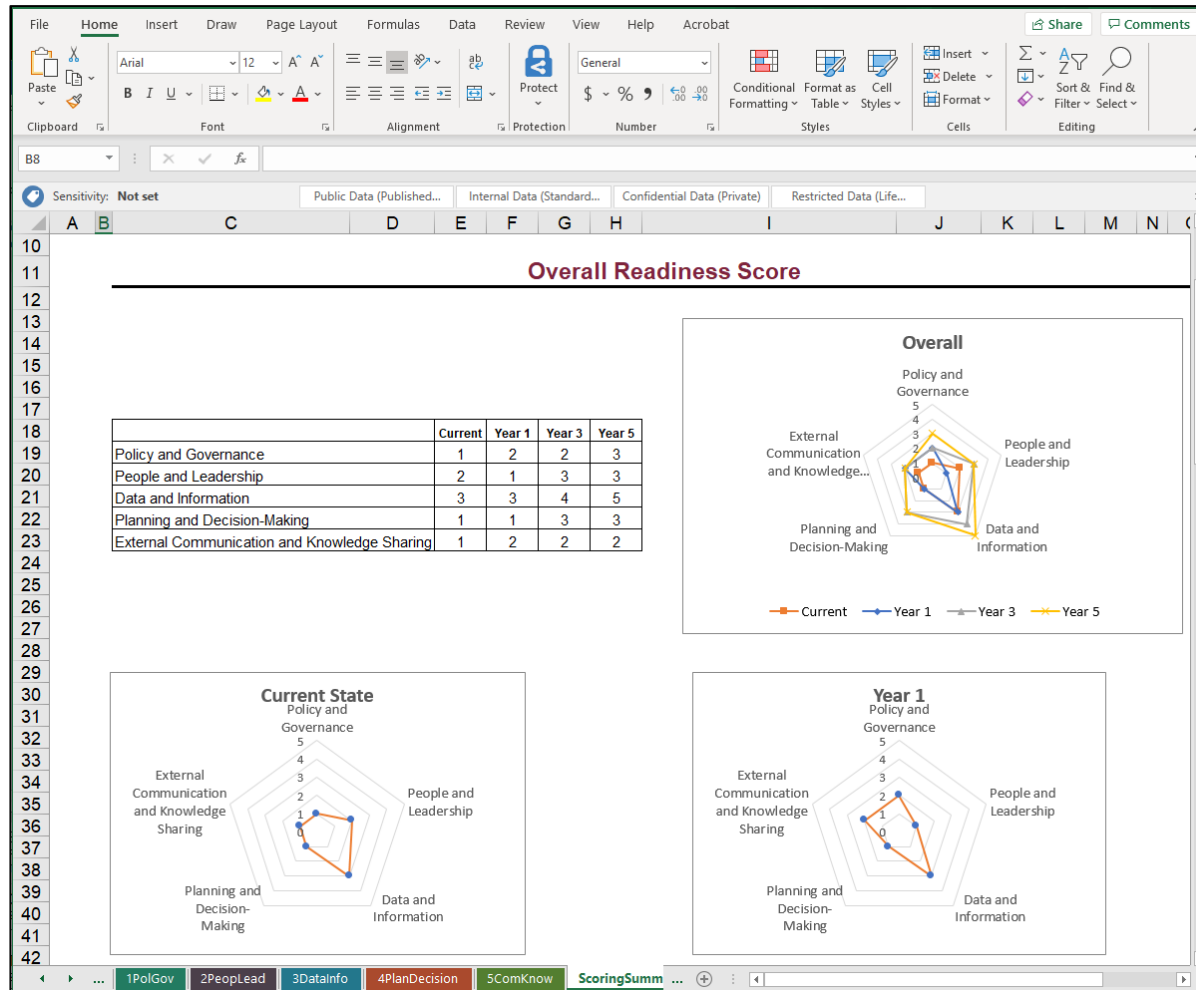
Policy and Governance: By developing this competency, your organization is putting in place policies and objectives related to asset management (AM), bringing those policies to life through a strategy and roadmap, and then measuring progress and monitoring implementation over time.

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	Outcomes: Select the outcomes that your organization has achieved.					Future State			
	Level 1	Level 2	Level 3	Level 4	Level 5	Current (from left)	Year 1	Year 3	Year 5
A: Policy and objectives	Senior management and/or elected officials are committed to formalizing an AM program.	We have drafted an AM policy. Senior management and/or elected officials have endorsed the AM policy.	We are starting to use our AM policy to guide our actions.	We manage assets and services in accordance with our AM policy and organizational objectives.	We continue to validate and refine our service and AM objectives based on the evolving needs of our service area.				
Describe Current Actions						Describe Planned / Potential Actions			

Asset Management Readiness Assessment Scale



Asset Management Readiness Assessment Scale



Audience

- Asset Owners – Local Government, Utilities, Communications, Authorities

Implementation

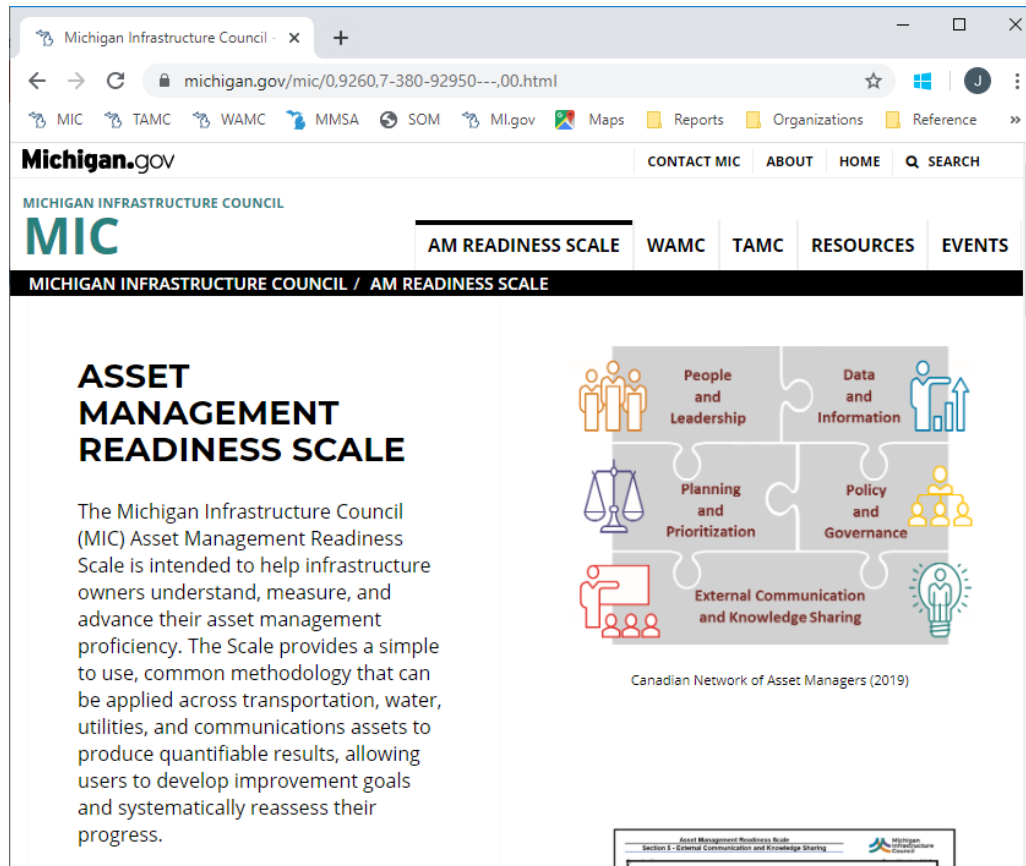
- Michigan Association of Regions
- AM in the AM (February 25)

Timeline

- Release – February 2020

Asset Management Readiness Assessment Scale

More Information: [Michigan.gov/MIC](https://michigan.gov/MIC)



The screenshot shows a web browser window displaying the Michigan Infrastructure Council (MIC) website. The page title is "MICHIGAN INFRASTRUCTURE COUNCIL / AM READINESS SCALE". The main heading is "ASSET MANAGEMENT READINESS SCALE". Below the heading, there is a paragraph explaining the scale's purpose: "The Michigan Infrastructure Council (MIC) Asset Management Readiness Scale is intended to help infrastructure owners understand, measure, and advance their asset management proficiency. The Scale provides a simple to use, common methodology that can be applied across transportation, water, utilities, and communications assets to produce quantifiable results, allowing users to develop improvement goals and systematically reassess their progress."

To the right of the text is a diagram consisting of five interlocking puzzle pieces, each with an icon and a label:

- People and Leadership** (Icon: Three stylized human figures)
- Data and Information** (Icon: Bar chart with an upward arrow)
- Planning and Prioritization** (Icon: Scales of justice)
- Policy and Governance** (Icon: Group of three people)
- External Communication and Knowledge Sharing** (Icon: Lightbulb)

Below the puzzle pieces, it says "Canadian Network of Asset Managers (2019)". At the bottom of the page, there is a small logo for "Michigan Infrastructure Council" and a footer with the text "Asset Management Readiness Scale Section 4 - External Communication and Knowledge Sharing".

Key Initiatives



- **Asset Management Readiness Assessment Scale**
- **MIC “Dig Once” Project Portal**

MIC “Dig Once” Project Portal



- Coordination and Collaboration Tool
- Provides High Level Project Information
- Allows Users to Add and View Projects within their Region
- Provides Project Point of Contact for Collaboration Purposes



Michigan
Infrastructure
Council

MIC “Dig Once” Project Portal

MIC Project Portal
Michigan Infrastructure Council

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Add Project

Information about an upcoming or ongoing project can be added or edited using this form. The data will be added to your projects list which displays your current and future projects.

Project Details

Project Name i

required

Project ID i

This is your local project ID

Project Type i
Select a Project Type v
required

Will the road be cut? i
Select whether the road will be cut v
required

Current Phase Information

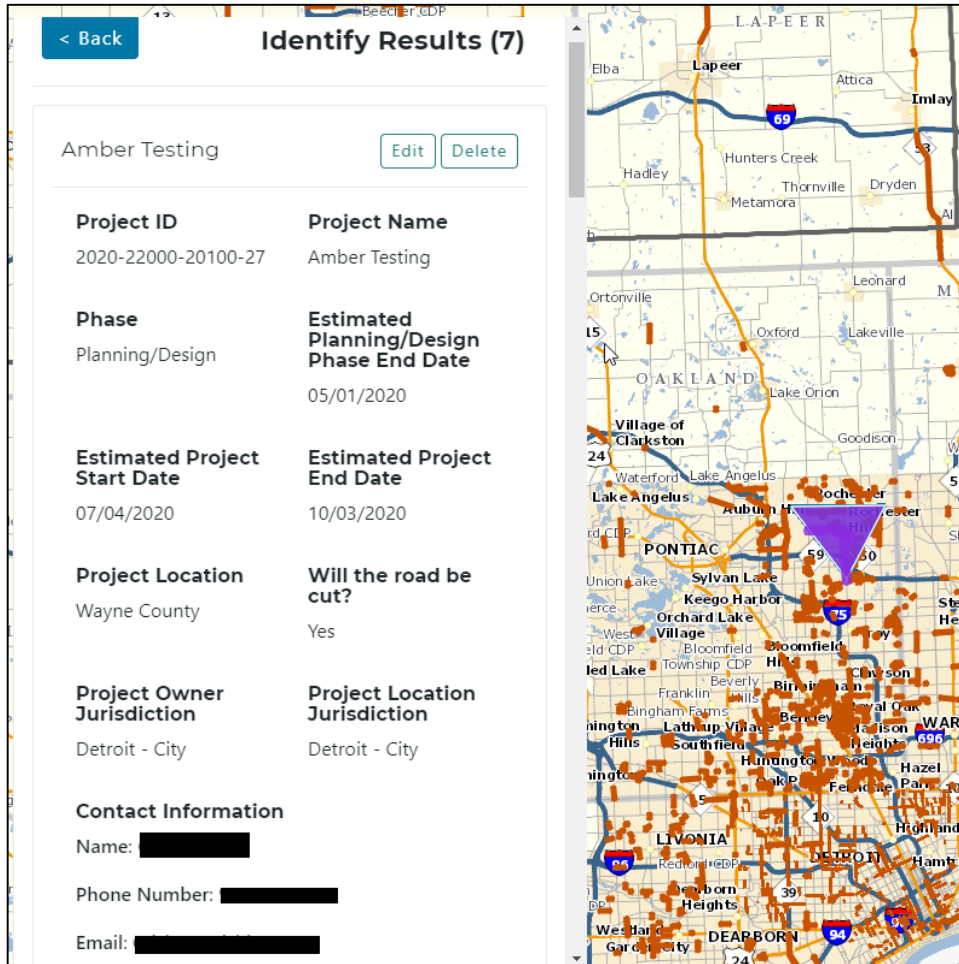
Current Phase i

The map in the background shows a street grid in Howell, Michigan, with major roads like W Grand River Ave and I-96 highlighted in orange. The name 'Howell' is written in the center of the map.

Benefits and Features

- Integrated: Utilities/ Telecommunications as well as Public Asset Owners
- Secure: Permission-Based (MiLOGIN)
- Reduced Redundancy
 - Existing projects
 - Shapefiles
- Push Notifications
- Industry Standard Terminology

MIC “Dig Once” Project Portal



The screenshot displays the 'Identify Results (7)' page in the MIC 'Dig Once' Project Portal. On the left, a sidebar shows the project details for 'Amber Testing', including its ID (2020-22000-20100-27), phase (Planning/Design), and various dates. The main area features a map of the Detroit metropolitan area with a purple triangle highlighting a specific location near the intersection of I-75 and I-94. The map shows various cities and roads, with orange dots indicating project locations.

Identify Results (7)

Amber Testing Edit Delete

Project ID	Project Name
2020-22000-20100-27	Amber Testing
Phase	Estimated Planning/Design Phase End Date
Planning/Design	05/01/2020
Estimated Project Start Date	Estimated Project End Date
07/04/2020	10/03/2020
Project Location	Will the road be cut?
Wayne County	Yes
Project Owner Jurisdiction	Project Location Jurisdiction
Detroit - City	Detroit - City
Contact Information	
Name:	[REDACTED]
Phone Number:	[REDACTED]
Email:	[REDACTED]

Audience

- Asset Owners – Local Government, Utilities, Communications, Authorities
- Approved Proxies (i.e. Consultant Community)

Implementation

- Project-Owners
- Michigan Association of Regions
- Marketing Campaign

Timeline

- Release – Summer 2020

Next Steps



- **Roll Out Key Initiatives**
- **Strengthen Coordination between Councils and Stakeholders**
- **Increase Engagement**



Thank You Michigan Municipal Executives!

Michigan.gov/MIC