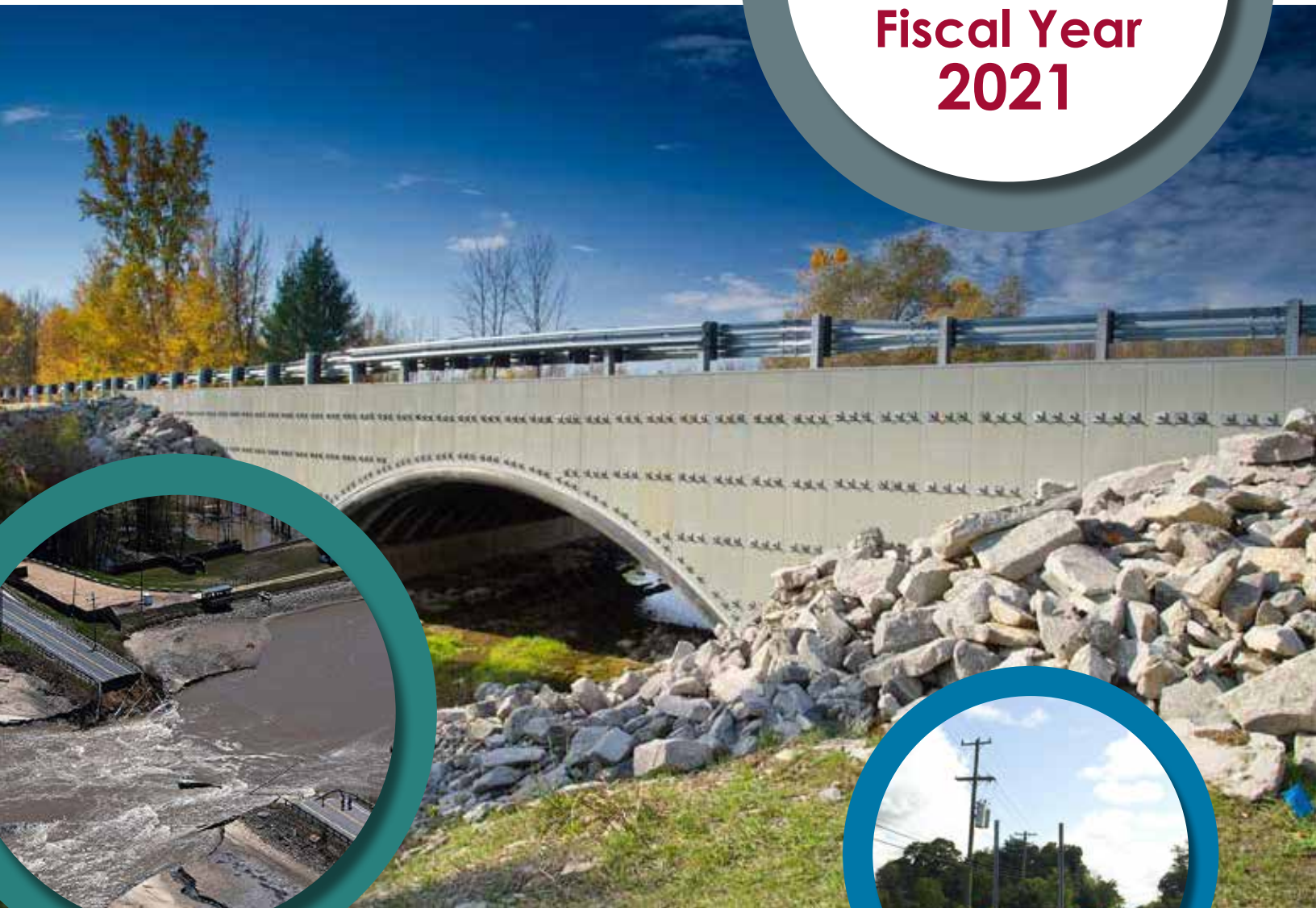




Michigan  
Infrastructure  
Council

# ANNUAL REPORT

Fiscal Year  
2021



Developing a 30-Year  
Infrastructure Strategy  
for Michigan

Michigan Department of  
**TREASURY**

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## Acknowledgments

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John Weiss, Chairperson

Kathleen Lomako, Vice-Chairperson

Larry Steckelberg, Interim Executive Director, MIC, Michigan Department of Treasury

Michigan Infrastructure Council – Voting Members: Marco Bruzzano, John Daly III, Daniel Fredendall, Jon Kangas, Erin Kuhn, Kathleen Lomako, Palencia Mobley, John Weiss, David Wresinski

Michigan Infrastructure Council – Nonvoting, Ex Officio Members: Heather Frick, Jodi Gruner, Joanna Johnson, Aaron Keatley, Sue McCormick, Laura Mester, Sharon Schafer, Eric Swanson

Michigan Infrastructure Council – Amber Hicks, Michigan Department of Treasury

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Graphic Design: Heather Case, Michigan Department of Treasury



## Executive Summary

The Michigan Infrastructure Council (MIC) was created in 2018 to address long-term planning, effective operation, and investment in Michigan's infrastructure. Weather events in Michigan and throughout the nation in the last few years continue to cause havoc and raise long-term concerns about the resiliency of Michigan's public infrastructure. The need for long-term planning and effective investment has never been stronger. As the MIC begins developing a 30-year strategy for the coordination of investment and planning for Michigan's infrastructure future, the sense of urgency for this strategy has never been stronger.

The FY2021 activities and accomplishments put forth in the following report represent MIC's commitment to promote collaboration and coordination across infrastructure classes, provide inclusive education opportunities, and the development of a long-term statewide integrated infrastructure management plan.

Covid-19 was the major ongoing challenge of the year for both MIC and its partners, whose participation is relied upon. FY2021 has been a year of transition and challenges for the MIC. Despite the multiple changes in staffing and executive leadership, the Council has proven to be resilient and successful in its efforts to continue to implement integrated asset management principles across the State of Michigan.

While Covid-19 concerns and restrictions continued to pose challenges throughout FY2021, the Council was able to persevere and conduct multiple outreach and training activities, launch the MIC "Dig Once" Project Portal, continue to collect results from the Asset Management Readiness Assessment Scale (AMRS), and take the first steps toward developing a 30-year strategy for managing Michigan's vast infrastructure network.

Long-term, consistent planning are key to building resilient infrastructure to meet the needs of Michigan's citizens. The Michigan Infrastructure Council will continue to focus on that effort in the coming years with solid planning and partnerships to meet our mission.





# Michigan Infrastructure Council – Legislation and Composition

## Legislation

Three pieces of legislation were passed on July 2, 2018 to establish the Michigan Infrastructure Council and the Water Asset Management Council and to realign the Transportation Asset Management Council.

- Public Act 323 of 2018 – Established the Michigan Infrastructure Council (MIC) within the Michigan Department of Treasury
- Public Act 324 of 2018 – Established the Water Asset Management Council (WAMC) within the Michigan Infrastructure Council. WAMC is staffed through the Michigan Department of Environment, Great Lakes, and Energy (EGLE)\*
- Public Act 325 of 2018 – Broadened the scope and realigned the Transportation Asset Management Council (TAMC) within the Michigan Infrastructure Council. TAMC continues to be staffed through the Michigan Department of Transportation (MDOT)

\* Formerly Michigan Department of Environmental Quality

The three councils work in consort with other asset managers and owners to provide strategic guidance across transportation, water, utility, and telecommunications infrastructure. MIC serves as the unifying council, integrating efforts across all infrastructure types, while the TAMC provides leadership with regard to roads, bridges, culverts, and signals and WAMC provides leadership with regard to drinking water, wastewater, and stormwater.

## Council Members

As defined through P.A. 323 of 2018, the Michigan Infrastructure Council is charged with bringing together public and private infrastructure owners, regional representatives, finance and policy experts, and state departments to coordinate and measure infrastructure goals, safeguard investments, and develop an efficient, strategic, and statewide framework for integrated asset management.

The MIC is comprised of nine voting members, appointed by the Governor and the state legislature to represent varied areas of expertise, Michigan's diverse geography, differing scales of infrastructure systems, public and private sectors, and local, regional, and state governments. The MIC is also comprised of nine non-voting members representing six state agencies and leadership from TAMC, WAMC, and the Michigan Public Service Commission (MPSC).

### MIC Mission

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

**Table 1: Voting Members**

Name	Affiliation	Appointed by	Term
Mr. John Weiss, Chairperson	Grand Valley Metropolitan Council	Senate Majority Leader	12/31/2023
Ms. Kathleen Lomako, Vice-Chairperson	Southeast Michigan Council of Governments	House Minority Leader	12/31/2022
Mr. Marco Bruzzano	DTE Energy	Governor	12/31/2021
Mr. John H. Daly III	City of Flint	Senate Minority Leader	12/31/2022
Mr. Daniel Fredendall	OHM Advisors	Speaker of the House	12/31/2023
Mr. Jon Kangas	Marquette Township	Governor	12/31/2022
Ms. Erin Kuhn	West Michigan Shoreline Regional Development Commission	Governor	12/31/2021
Ms. Palencia Mobley	Detroit Water and Sewerage Department	Governor	12/31/2023
Mr. David Wresinski	Formerly WSP USA/WSP Michigan Inc.	Governor	12/31/2021

**Table 2: Non-Voting Members**

Name	Affiliation	Term
Ms. Jodi Gruner	MDARD - Agriculture and Rural Development	March 2021 - Present
Mr. Aaron Keatley	EGLE – Environment, Great Lakes, and Energy	2018 - Present
Ms. Sharon Schafer	MDNR - Natural Resources	2018 - Present
Ms. Laura Mester	MDOT - Transportation	2018 - Present
Mr. Eric Swanson	DTMB - Technology, Management and Budget	2018 - Present
Ms. Joyce Parker	Department of Treasury	June 2020 – July 2021
Ms. Heather Frick	Department of Treasury	July 2021 - Present
Mr. Ryan Laruwe	MPSC - Public Service Commission	2018 - Present
Ms. Joanna Johnson	TAMC - Transportation Asset Management Council	2018 - Present
Ms. Sue McCormick	WAMC - Water Asset Management Council	2018 - Present

## FY2021 Meeting Schedule

MIC conducted meetings in accordance with the Open Meetings Act, 1976 P.A. 267, MCL15.261 to 15.275 and Executive Orders 2020-75 and 2020-154. In alignment with P.A. 323 of 2018, MIC approved a quarterly meeting schedule for annual year 2021. Virtual meetings were held on March 11, 2021, and June 10, 2021. In-person meetings resumed with the MIC meeting on September 9, 2021, quarterly meeting. MIC's final meeting for the calendar year is scheduled for December 9, 2021. The meeting schedule for the upcoming year will be established during this meeting. A full listing of meeting materials and meeting minutes can be found on the MIC website: [www.michigan.gov/mic](http://www.michigan.gov/mic).

## FY2021 Significant Accomplishments and Next Steps

The Michigan Infrastructure Council (MIC) had an active and successful year. As detailed in the following pages, MIC committees and subgroups progressed many workplan initiatives in alignment with legislative requirements and the five MIC goals: Coordinate, Collaborate, Prioritize, Educate, and Invest.

### Committees and Subgroups

MIC established one new committee, the Portal Access Committee, and maintained nine informal subgroups in FY2021. Drawing expertise from council members and other partners, this committee and subgroup structure allowed several critical activities to advance in parallel. All committees and subgroups are supported by MIC staff in the Michigan Department of Treasury.



**Table 3: MIC Committees FY2021**

Committee	Participants	Date of Establishment	Status
<b>Nominations Committee:</b> Develops and manages the evaluation and nomination process for WAMC members	<b>Dan Fredendall</b> , John Daly III, Heather Frick, Sue McCormick, Evan Pratt, David Wresinski	December 12, 2019	Active
<b>Portal Access Committee:</b> Develops and manages the Project Portal Operational Guidelines and evaluates requests for access to the Portal from entities that do not fit established criteria	<b>Jon Kangas</b> , Marco Bruzzano, Dan Fredendall, Ryan Laruwe, Jeff Parker	March 11, 2021	Active

**Table 4: MIC Subgroups FY2021**

Subgroup	Participants	Status
<b>AM Champions Program – Advisory:</b> Advise on the content and program completion requirements for the AM Champions Program	<b>MIC Executive Director, Erin Kuhn</b> , Palencia Mobley, Derek Bradshaw (TAMC), Jerry Wuorenmaa (WUPDR), Bob Slattery (TAMC), Evan Pratt (WAMC)	Active
<b>Asset Management Readiness:</b> Develop asset management readiness assessment scale materials, analyze results, and establish performance metrics	<b>Jon Kangas/Jodi Gruner/Erin Kuhn</b> , Nicole Baumer (Tri-County Regional Planning), Tim Colling (Michigan Technological University)	Active
<b>Definitions &amp; Standards:</b> Establish shared terminology and mutual understanding between asset types (water, transportation, utilities, and communications)	<b>John Daly III</b> , Dan Fredendall, Joanna Johnson, Sue McCormick, Palencia Mobley, Jeff Parker (Consumers Energy), Phil Argiroff (Michigan Department of Environment, Great Lakes, and Energy), Peter Hoffman (Michigan State Police), Charyl Kirkland (MPSC)	Active
<b>Meeting Minutes:</b> Review and edit meeting minutes	<b>Dan Fredendall</b> , John Weiss	Active
<b>MIC Project Portal - Advisory:</b> Advise on collaborative technology that enables coordination of future construction projects to support "Dig Once" opportunities*	<b>Eric Swanson/Marco Bruzzano</b> , Ryan Laruwe (MPSC), Niles Annelin (Michigan Department of Transportation), Ann Burns (Southeast Michigan Council of Governments), Mark Conradi (Michigan Department of Environment, Great Lakes, and Energy), Peter Hoffman (Michigan State Police), Mark Holmes (Michigan Department of Technology, Management, and Budget), Jeff Parker (Consumers Energy)	Active
<b>Communications:</b> Draft and maintain outreach materials	<b>Marco Bruzzano/Kathleen Lomako</b> , John Daly III, Aaron Keatley, Erin Kuhn	Meets as needed
<b>Reports:</b> Develop content and review MIC reports prior to publication	<b>John Weiss</b> , Jon Kangas, Kathleen Lomako, Palencia Mobley	Meets as needed
* Several industry-specific subgroups also advise on the MIC Project Portal.		

## Workplan Initiatives

The Michigan Infrastructure Council (MIC) advanced several workplan initiatives in FY2021. Significant activities and accomplishments are identified according to goal area.



1. MIC “Dig Once” Project Portal
2. Cross-Council Coordination

**Coordinate:** Align strategies for infrastructure management to ensure that Michigan’s assets are effectively and efficiently constructed, operated, and maintained

Michigan continues to be unique among its peers with a focus on asset management that is integrated across diverse transportation, water, utility, and telecommunications infrastructure. This approach is inherently collaborative, allowing for strategic coordination across construction projects, data collection, and lifecycle asset management.

### MIC “Dig Once” Project Portal

#### Background

MIC Project Portal (the Portal) allows authorized public and private asset owners to document future construction locations/ dates across transportation, water, utilities, and telecommunications infrastructure. Leveraging Geographic Information Systems (GIS) technology, the Portal alerts owners of overlapping projects and provides pertinent contact information for collaboration purposes.

Addressing all underground infrastructure concurrent with road opening construction results in substantial resource efficiencies, cost savings, and reduced citizen burden. MIC's goal is to assist all public and private infrastructure owners with realizing these benefits through use of the Portal.



Consumers Energy's gas distribution engineering team has had a group responsible for municipal project coordination for many years, but the Project Portal creates a simple way for our team to easily gather additional information on upcoming project work. This will enable our team to more effectively determine the timing and the proper contacts to facilitate improved planning and cooperation. We appreciate the efforts of the Michigan Infrastructure Council in developing and maintaining this communication tool!

-Jeff Parker, Consumers Energy



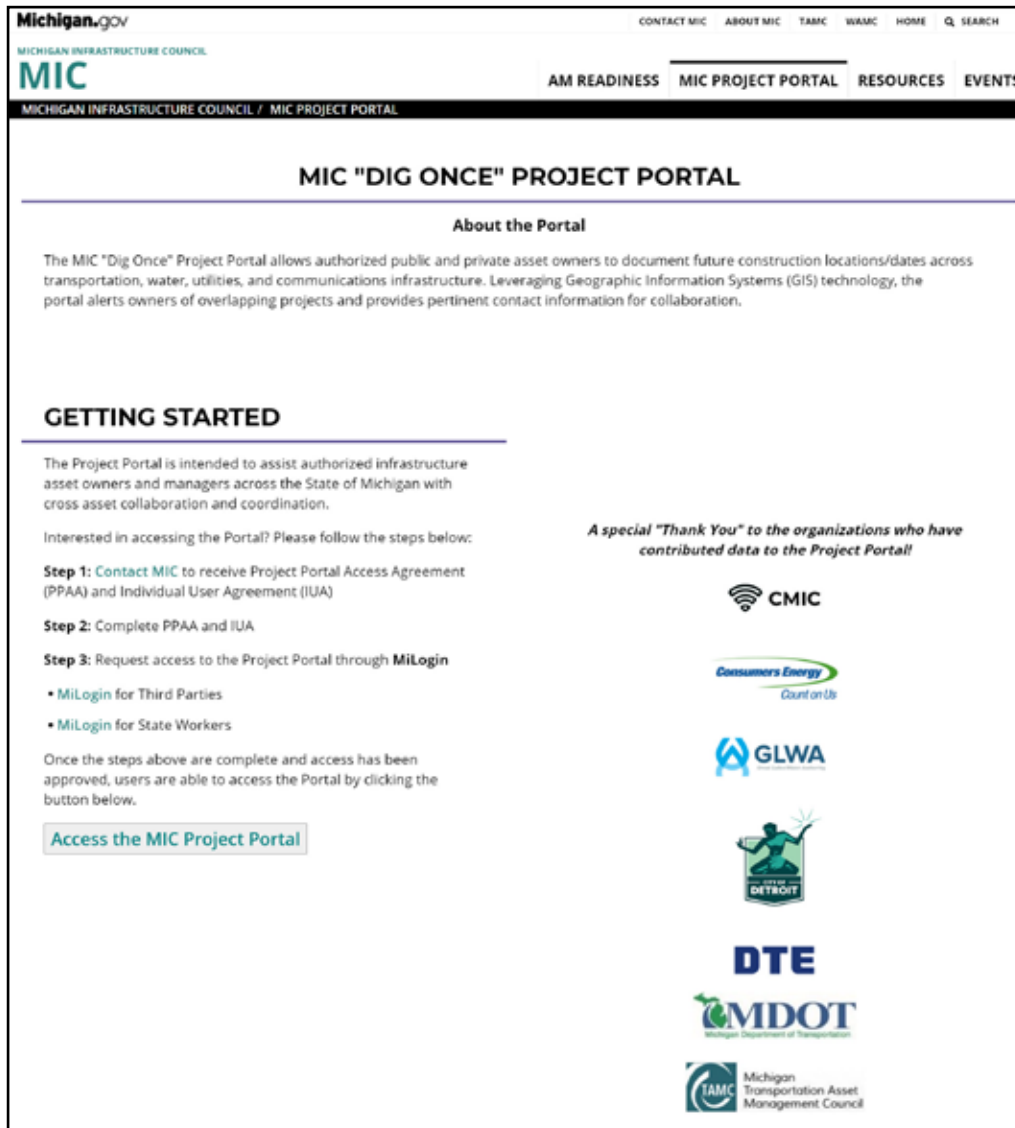
## FY2021 Activities

In partnership with the Michigan Department of Technology, Management, and Budget (DTMB), Center for Shared Solutions (CSS), MIC completed the design and development of the Portal before it officially launched in March of 2021. To date, there are over 25 unique organizations using the Portal and nearly 12,000 infrastructure projects displayed within the portal. New organizations and users are being continuously added.

The MIC Program Specialist and the Development Team continue to work with State of Michigan Cybersecurity, Identity Management, and Attorney General offices to ensure Portal users and data providers are protected and have the best experience possible.

## Next Steps

The MIC "Dig Once" Project Portal is fully available to approved and authenticated users. MIC will continue to gather feedback from users and expertise subgroups as it begins to design and develop enhancements to the Portal. The strategically planned and designed enhancements will allow for greater usability of the Portal and contribute to the overall user experience.



The screenshot shows the MIC "Dig Once" Project Portal website. The header includes the Michigan.gov logo, MIC logo, and navigation links: CONTACT MIC, ABOUT MIC, TAMB, WAMC, HOME, and a search bar. Below the header, there are tabs for AM READINESS, MIC PROJECT PORTAL (selected), RESOURCES, and EVENTS. The main content area is titled "MIC 'DIG ONCE' PROJECT PORTAL" and includes a section "About the Portal" describing its purpose. A "GETTING STARTED" section provides instructions for accessing the portal, including steps for contacting MIC, completing agreements, and requesting access through MiLogin. A "Access the MIC Project Portal" button is provided. On the right side, there is a "Thank You" message to organizations that have contributed data, with logos for CMIC, Consumers Energy, GLWA, City of Detroit, DTE, MDOT, and TAMB.

**Michigan.gov**  
MIC  
MICHIGAN INFRASTRUCTURE COUNCIL

CONTACT MIC ABOUT MIC TAMB WAMC HOME SEARCH

AM READINESS MIC PROJECT PORTAL RESOURCES EVENTS

MICHIGAN INFRASTRUCTURE COUNCIL / MIC PROJECT PORTAL

### MIC "DIG ONCE" PROJECT PORTAL

#### About the Portal

The MIC "Dig Once" Project Portal allows authorized public and private asset owners to document future construction locations/dates across transportation, water, utilities, and communications infrastructure. Leveraging Geographic Information Systems (GIS) technology, the portal alerts owners of overlapping projects and provides pertinent contact information for collaboration.

#### GETTING STARTED

The Project Portal is intended to assist authorized infrastructure asset owners and managers across the State of Michigan with cross asset collaboration and coordination.

Interested in accessing the Portal? Please follow the steps below:

**Step 1:** Contact MIC to receive Project Portal Access Agreement (PPAA) and Individual User Agreement (IUA)

**Step 2:** Complete PPAA and IUA

**Step 3:** Request access to the Project Portal through **MiLogin**

- MiLogin for Third Parties
- MiLogin for State Workers

Once the steps above are complete and access has been approved, users are able to access the Portal by clicking the button below.

[Access the MIC Project Portal](#)

*A special "Thank You" to the organizations who have contributed data to the Project Portal!*

CMIC

Consumers Energy  
Count on Us

GLWA

CITY OF DETROIT

DTE

MDOT  
Michigan Department of Transportation

TAMB  
Michigan Transportation Asset Management Council

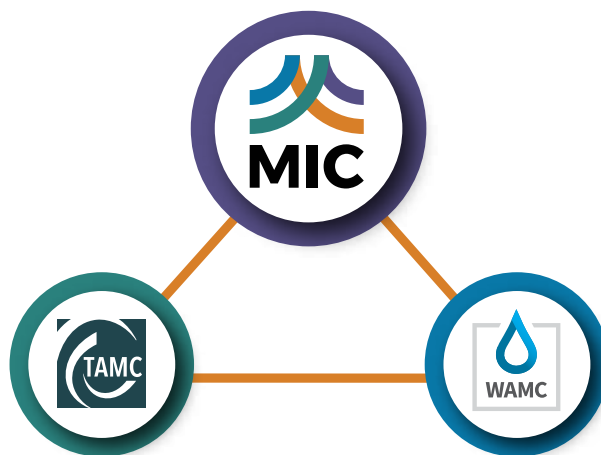
## Cross-Council Coordination

### Background

As defined by Public Acts 323, 324, and 325 of 2018 (see the Legislation section of this report), the Michigan Infrastructure Council (MIC), the Transportation Asset Management Council (TAMC), and the Water Asset Management Council (WAMC) were purposefully designed to support statewide, integrated asset management.

While MIC is charged with leadership across all asset types, TAMC and WAMC share similar roles and responsibilities within their respective subject expertise. Both sub-councils serve as advisors to the MIC, providing guidance on statewide transportation and water asset management strategies and the processes and tools needed to implement these strategies. This alignment is further illustrated in the composition of their respective memberships. In many instances, governmental organizations and/or similar industry associations have representation on both councils, which facilitates a coordinated approach to integrated asset management.

Both TAMC and WAMC are tasked with the development, implementation, and three-year collection cycle of Asset Management Plans. TAMC legislation requires that local road agencies certifying 100 or more miles of road complete this plan (122 local road agencies) and WAMC legislation requires that water asset owners servicing 1,000 or more individuals complete this plan (approximately 800 water asset owners). The nature of these asset management plans, and their requisite components, are identical across the two councils.



### FY2021 Activities

TAMC and WAMC successfully developed their respective Asset Management Plan (AMP) Templates and began implementing their three-year rolling schedules for plan submissions. The components of these plans are legislatively identical. While some attempt was made to align community submission dates, cross-council coordination was limited for the initial cycles. As AMP activities continue to mature, coordination is expected to escalate.

TAMC and WAMC are required to submit an annual report to the MIC each year. Both councils met this requirement and published an outline of their respective activities and accomplishments for FY2021. These reports can be found on the MIC website: [www.michigan.gov/mic](http://www.michigan.gov/mic).

### Next Steps

MIC's integrated asset management efforts will continue to mature in the coming year, necessitating additional subject matter expertise from the TAMC and WAMC sub-councils. Among the many opportunities for collaboration, MIC, TAMC, and WAMC continue to explore shared resources, alignment of asset management plans, and educational initiatives. During the development of the MIC 30 Year Integrated Infrastructure Plan in FY2022, there may be additional strategies identified to continue to move this work along statewide under the leadership of these councils. Additional information pertaining to all three councils can be found on the MIC website: [www.michigan.gov/mic](http://www.michigan.gov/mic).

## COLLABORATE

### 1. Continuing Initiative: AM in the AM Sessions 2. Infrastructure Service Areas

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

Whether it is a structured conference setting or a rapid response to changing infrastructure projects during a global pandemic, MIC's ability to bring a diversity of stakeholders to the discussion is vital to the collaborative vision. While all the Council's efforts stem from an integrated approach, the broad participation and positive feedback from the various MIC activities and initiatives including the AM in the AM Session demonstrate the overarching value of shared engagement.

## AM in the AM Sessions

### FY2021 Activities

Despite the challenges of the year, MIC continued its efforts to engage with the consultant community and held its second AM in the AM (Asset Management in the Morning) session in June of 2021. Many communities, municipalities, and organizations employ consulting firms to assist them in their infrastructure asset management plans and efforts. While MIC strives to work with individual communities, municipalities, and organizations across the State, it recognizes the important role that the consultant community plays in assisting these entities on their integrated infrastructure asset management journey. Therefore, it is prudent that MIC ensures that the consultant community is aware of the asset management tools, training, and resources available to them and their clients.

The participants discussed how they have implemented the Asset Management Readiness Assessment Scale with their clients and also learned more about the MIC Project Portal. The participants discussed they have used the Asset Management Readiness Assessment Scale with their clients and learned more about the MIC Project Portal as well.

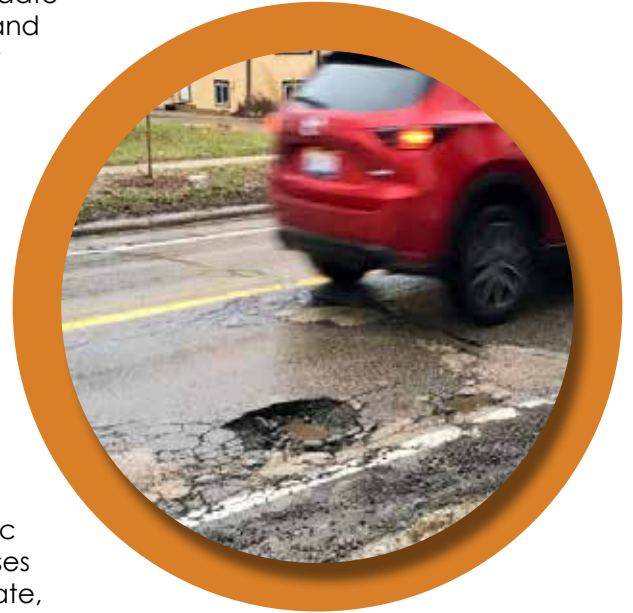
Additional AM in the AM sessions are anticipated to be scheduled for FY2022.



## Infrastructure Service Areas

Over the last year the Michigan Infrastructure Council has partnered with the Michigan Department of Technology, Management, and Budget (DTMB) and the Michigan Public Service Commission (MPSC) on a comprehensive project to update the service territory mapping of Michigan's regulated electric and natural gas utility providers. These maps which were historically located on the MPSC website provided users contacts for setting up utility service at their home or business as well as emergency numbers to report hazardous conditions or service outages. While functional, the technology underlying these maps was severely antiquated by modern mapping standards and in need of an update. Furthermore, during the conceptualization and development of the MIC Project Portal, stakeholders identified the importance of collaborating and coordinating with utilities during the planning and construction of infrastructure projects within the State.

Recognizing the opportunity for a mutually beneficial collaboration, MIC leadership reached out to the MPSC to discuss updating its service territory map to modern Geographic Information System (GIS) technology and expanding its use cases to better assist future infrastructure build outs in the State. To date, the partnership has collected street level service territory data from all of Michigan's regulated utilities and is currently in the testing phase prior to going live in the fall of 2021 on the MPSC website. This dataset will then be integrated into the MIC Project Portal and supplemented with regional planning and construction contact information to connect infrastructure owners quickly and efficiently assisting in future collaboration efforts. Given the success of these initial efforts with electric and gas utilities, MIC hopes to engage with other partners, growing this infrastructure base map to include the geospatial boundaries for water and communications systems in the coming year.





# PRIORITIZE

## 1. Definitions and Standards

## 2. Annual Assessment: Review of the 21st Century Infrastructure Commission Report and Infrastructure Asset Management Pilot

**Prioritize: Establish and document the condition of Michigan's infrastructure to identify the needs of greatest priority**

Positioning the right resources at the right time and the right place is fundamental to the principles of sound asset management. By applying this tenet across a broad range of infrastructure types, MIC sets the stage for true integrated asset management. Beginning with a common glossary and building on successful endeavors, MIC will be positioned to comprehensively prioritize asset management decisions into the future.

## Definitions and Standards

### Background

Many aspects of the MIC legislation and workplan initiatives require a shared understanding of assets and asset classes and their related data standards and definitions. Noting that each asset and/or infrastructure system may vary in terms of service life, maintenance schedules, criticality, or risk of failure, a common vernacular and comparative condition scale can nonetheless be standardized for integrated asset management purposes.

### FY2021 Activities

The Definitions and Standards subgroup is purposely diverse – comprised of representatives from transportation, water, utilities, and communications infrastructure, as well as cognate organizations such as the Michigan State Police. In FY2021, the subgroup continued to advance a common glossary across MIC's integrated mission. This glossary is derived from eighteen different industry resources and contemplates nearly 1500 infrastructure-related terms for their inclusion/exclusion. After the glossary was reviewed and accepted by both TAMC and WAMC, it was voted on and accepted by the Council at the June 10, 2021, MIC meeting.

**Table 5: Glossary References**

Industry Reference	State	National	International
American Public Works Association (APWA)		X	
American Water Works Association (AWWA)		X	
Canadian Network of Asset Managers (CNAM)			X
United States Environmental Protection Agency (EPA)		X	
Federal Communications Commission (FCC)		X	
Federation of Canadian Municipalities (FCM)			X
United States Federal Highway Administration (FHWA)		X	
Institute of Asset Management (IAM)			X
International Infrastructure Management Manual (IIMM)			X
International Organization for Standardization (ISO) 55000:2014			X
Midwest Energy Association (MEA) – Electric Glossary		X	X

**Table 5: Glossary References Continued**

Industry Reference	State	National	International
Midwest Energy Association (MEA) – Gas Glossary		X	
State of Michigan Public Act 323 of 2018	X		
State of Michigan Public Act 324 of 2018	X		
State of Michigan Public Act 325 of 2018	X		
Transportation Asset Management Council (TAMC)	X		
Water Asset Management Council (WAMC)	X		
Water Environment Federation (WEF)		X	

## Next Steps

Beginning in FY2022, the subgroup will turn its attentions to other integrated standards, such as a common condition scale for good/fair/poor, service life, and level of service.

## Annual Assessment: Review of the 21st Century Infrastructure Commission Report and Infrastructure Asset Management Pilot

The 21st Century Infrastructure Commission, an advisory body comprised of 27 members, was created by Governor Rick Snyder through Executive Order 2016-5 to initiate the planning, development, and management of Michigan's complex infrastructure network over the next 30 to 50 years. Through the publication of the 21st Century Infrastructure Commission Report (2016), the Commission acknowledged the many challenges to Michigan's aging, underfunded, and siloed infrastructure environment and issued a comprehensive set of recommendations across water, transportation, energy, and communications.

The Regional Infrastructure Asset Management Pilot commenced in April 2017 through Executive Directive 2017-1 and was tasked with developing an integrated asset management process that could be leveraged across state, regional, and local government and both public and private utilities. The pilot culminated in a comprehensive report which included a set of recommendations for elevating Michigan's leadership in infrastructure asset management.

As outlined in P.A. 323 of 2018, the Council is required to "evaluate the regional infrastructure asset management pilot program ... and the findings of the 21st Century Infrastructure Commission." Combined, there are over 150 recommendations from these reports. These recommendations continue to guide MIC's initiatives. As demonstrated through the FY2021 evaluation, nearly 37% of the combined recommendations are being implemented through current or planned MIC activities and initiatives. The full FY2021 evaluation can be found on the MIC website: [www.michigan.gov/mic](http://www.michigan.gov/mic).



# EDUCATE

## 1. Asset Management Readiness Assessment Scale 2. AM Champions Program

### Educate: Provide accurate and trusted information to support effective infrastructure decisions

MIC's role as educator is explicitly defined in P.A. 323 of 2018. With reference to responsibilities for integrated asset management across sub-councils TAMC and WAMC, data development, partner support, and bridging requirements between state and local practitioners, all of MIC's workplan initiatives necessarily include training components. The Asset Management Readiness Assessment Scale and the emerging initiative, Infrastructure Service Areas, each recognize the need for consistent, statewide information and contribute to its development.

## Asset Management Readiness Assessment Scale

### Background

Uniform standards and a common understanding of best practice asset management principles are critical to the development of a long-term infrastructure strategy. In recognition of this need, the Michigan Department of Treasury awarded the Canadian Network of Asset Managers (CNAM) a contract to customize their existing Asset Management Readiness Scale for Michigan purposes and to provide subsequent training services.

The MIC Asset Management Readiness Assessment Scale, simply known as "The Scale," embraces five asset management competencies: People and Leadership, Data and Information, Planning and Prioritization, Policy and Governance, and External Communication and Knowledge Sharing and allows users to rank their ability across these competencies through "readiness levels."

The Scale will capture consistent, statewide metrics across all assets and infrastructure communities, thus creating a mechanism for collecting baseline data, setting target improvement goals, and conducting systematic reassessment.



### FY2021 Activities

The Asset Management Readiness Assessment Scale is intentionally designed to facilitate discussion and is best complete by cross-functional teams within an infrastructure organization. The Scale was officially released on February 5, 2020. Since then, more than 140 organizations have completed the Scale and submitted their results to MIC via their regional representatives.

Training materials and the MIC Asset Management Readiness Assessment Scale are available on the MIC website: [www.michigan.gov/mic](http://www.michigan.gov/mic) – **AM Readiness Scale tab**.

## Next Steps

The assessment data will continue to be collected from infrastructure owners and managers and by regional or consultant partners, who will summarize and aggregate results prior to submission to MIC. The initial data collected throughout FY21 will serve as a baseline for future collection periods. The Asset Management Readiness subgroup will continue to collect and analyze assessment results throughout 2022.

## AM Champions Program

The Asset Management (AM) Champion Program began in April 2021 with 80 participants and was completed in June 2021. The AM Champion Program establishes a network of talented individuals and organizations to help create and strengthen the best practices for asset management across the state of Michigan. The AM Champion program helps build awareness, helps develop knowledge of the MIC Asset Management Readiness Scale (AMRS), and helps establish a community to build a network of asset management leaders.

The AM Champion Program led by expert consultants from the Canadian Network of Asset Managers (CNAM), which allows participants to have in-depth conversations about the infrastructure in their communities.

## Next Steps

The AM Champion Program received tremendous support and positive feedback from program graduates who expressed a desire to continue the program for themselves as well as offer the opportunity to colleagues. As a result of this overwhelming success, MIC has identified three avenues for continuation of the program throughout FY2022. The first avenue includes continued support and networking opportunities for recent program graduates, as they continue their journey and expand their knowledge of the principles of Asset Management. Second will be another cohort of the AM Champion Program for another group of interested participants from across the state. This second program will be an updated version based on feedback and recommendations from the first cohort of participants. Finally, the third avenue will include additional outreach and engagement with vendors through additional AM in the AM sessions.





# INVEST

## 1. Annual Assessment: Strategic Investment

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

Michigan's long-term strategy for integrated asset management must give consideration to current and evolving funding and financing models. Grounded in lifecycle best practices and responsive to economic constraints, MIC will provide strategic leadership across investments in integrated infrastructure management.

### Annual Assessment: Strategic Investment

The MIC established the Strategic Coordination and Investment subgroup in FY2019, understanding the need for research and advisement with regard to budgeting, funding, and financing matters. The group has not yet been called to action, but as MIC embarks on the development of a 30-year infrastructure strategy, the subgroup is poised to deliver.



## Multi-Year Workplan

---

### Year 1 Workplan

- ✓ Conduct First Meeting of the Michigan Infrastructure Council – September 6, 2018
- ✓ Elect Chairperson and Other Officers (Vice-Chairperson)
- ✓ Develop and Adopt Michigan Infrastructure Council Bylaws Appoint Water Asset Management Council members
- ✓ Launch Michigan Infrastructure Council Website - <https://www.michigan.gov/mic> Develop and Adopt Michigan Infrastructure Council Mission and Goals
- ✓ Develop Communications Plan and Materials
- ✓ Conduct Initial Meetings with Key Stakeholder Groups (See Appendix B of this report)
- ✓ Initiate Cross-Council Collaboration Efforts
- ✓ Initiate Development of MIC Project Portal
- ✓ Develop Michigan Infrastructure Council Budget – FY2019/FY2020
- ✓ Author and Publish 180-Day Report: Developing a 30-Year Infrastructure Strategy for Michigan
- ✓ Evaluate and Implement Key Recommendations from the 21st Century Infrastructure Commission Report  
Evaluate and Implement Key Recommendations from the Infrastructure Asset Management Pilot
- ✓ Research, Evaluate, and Initiate Adoption of Definitions and Standards for Assets and Asset Classes  
Establish Baseline Performance Metrics (Asset Management Readiness Assessment Scale)
- ✓ Conduct Regional Asset Management Summits - Spring Summits 2019 Research and Advise on Asset Management Matters
- ✓ Research and Gather “External Input” from Subject Matter Experts including International Community/ Peer States, Private Sector, Not-for-Profit Industry Organizations, etc.
- ✓ Author and Publish Annual Report: Developing a 30-Year Infrastructure Strategy for Michigan – FY2019

### Year 2 Workplan

- ✓ Finalize Water Asset Management Council (WAMC) and Transportation Asset Management Council (TAMC) Asset Management Plan Templates and Implement 3-year Collection Cycle
- ✓ Refine and Continue Cross-Council Coordination Efforts (Education, Shared Resources, Execution of Asset Management Plans)
- ✓ Conduct Regional Asset Management Summits - Fall Summits 2019
- ✓ Seek Funding Mechanism to Continue Regional Asset Management Summits
- ✓ Launch MIC Project Portal\*\*



- ☒ Research and Identify Data Inventory Needs
- ☐ Establish and Implement Data Collection Process at the Local/Regional Level (Inventory, Storage, Updates, Reporting, etc.) \*
- ☐ Establish and Implement Data Collection Protocols for Data Security, Accuracy, etc. at the Local/Regional/State Level\*
- ☒ Adopt Definitions and Standards for Assets and Asset Classes\*\*
- ☒ Research and Identify Barriers to Integrated Asset Management (Funding Cycles, Regulatory Policies, etc.)
- ☐ Establish Action Plans to Address Integrated Asset Management Barriers\*\*
- ☒ Initiate Collection and Tracking of Statewide Performance Metrics (Asset Management Readiness Assessment Scale)\*\*
- ☒ Research and Advise on Asset Management Matters
- ☒ Author and Publish Annual Report: Developing a 30-Year Infrastructure Strategy for Michigan – FY2020

## Year 3 Workplan

- ☒ Operationalize Key Initiatives (MIC Project Portal and the Asset Management Readiness Assessment Scale)
- ☒ Continue Implementation of 3-year Collection Cycle for the Water Asset Management Council (WAMC) and Transportation Asset Management Council (TAMC) Asset Management Plans
- ☐ Fully Implement Cross-Council Coordination Efforts (Education, Shared Resources, Execution of Asset Management Plans)\*\*
- ☐ Recommend Levels of Support for Local Asset Data Collection, Local Development of Asset Management Plans, Regional Review and Collaboration, and Participation in Integrated Asset Management\*
- ☐ Refine Collection and Tracking of Statewide Performance Metrics, Establish Long-term Target Metrics, and Strategies\*\*
- ☐ Initiate Phase II of the Michigan Infrastructure Council (July 1, 2021) – Predictive Analytics, Public Dashboard, and the development of a 30-year Integrated Infrastructure Strategy for Michigan\*\*
- ☐ Author and Publish Annual Report: Operationalizing a 30-Year Infrastructure Strategy for Michigan – FY2021\*\*

\*Activity under review - currently evaluating resources and ability to complete this portion of the workplan

\*\*Activity ongoing – timeline delayed due to COVID-19 related impacts

## Budget

The Department of Treasury received a one-time funding allocation of \$1,500,000 through P.A. 201 of 2017 to fund the activities, costs, and expenses of the Michigan Infrastructure Council (MIC).

Funding to sustain the activities of MIC was appropriated in the FY2021 budget.

Budgeting will be coordinated with the Water Asset Management Council (WAMC) and the Transportation Asset Management Council (TAMC) where applicable to ensure cost efficiencies and encourage shared-service activities between the respective councils.



Administrative Costs <i>Staff Salaries, Office Administration, and Council Expenses</i>	\$381,781
Research and Education	\$493
Asset Management Planning	\$170,000
Other Projects	\$0

\* Projected through September 30, 2021



## Moving Forward

The Michigan Infrastructure Council (MIC) remains committed to the vision of sustainable infrastructure that provides for Michigan's public and environmental health, economic prosperity, and quality of life. MIC is ready to embark on the next steps toward the development of a 30-year statewide infrastructure framework.

Looking ahead, MIC will continue its efforts to build partnerships and trusted relationships, advance the activities of the workplan, and work with leadership to ensure the long-term sustainability of the Council. Any inquiries or input to help provide the best possible strategic outcomes for Michigan's long-term, integrated asset management, are welcome.



# Appendices

## Appendix A: References

The Michigan Infrastructure (MIC) and its sub-councils continue to be leaders in integrated infrastructure asset management. As such, many MIC activities and initiatives have been recognized throughout FY2020. A listing of key reports, news releases, and other publications is provided.

### Legislation

PA 323. (2018). Michigan Infrastructure Council Act, Section 21.601-21.606.

PA 324. (2018). Natural Resources and Environmental Protection Act 451 of 1994, Section 324.5001-324.5008.

PA 325. (2018). State Trunk Line Highway System Act 51 of 1951, Section 247.659a.

### Reports

Michigan Transportation Asset Management Council. (2021). Michigan's 2020 Roads & Bridges Annual Report. Lansing.

Michigan Water Asset Management Council. (2021). 2020 Annual Report. Lansing.

Michigan Infrastructure Council (2020). Fiscal Year 2021 Annual Report: Developing a 30-Year Infrastructure Strategy for Michigan. Lansing.

### News Releases, Articles, and other Publications

Balasovitz, A. (2021, April 11). Biden plan could provide major funding influx for Michigan infrastructure plans. Retrieved from MiBiz: <https://www.mibiz.com/sections/economic-development/biden-plan-could-provide-major-funding-influx-for-michigan-infrastructure-plans>

Evan Pratt, P. (2021, January). Where are you going? Asset Management Self Assessment. Retrieved from American Public Works Association: <https://apwa.partica.online/reporter/january-2021/features/where-are-you-going-asset-management-self-assessment>

Michigan Department of Treasury. (2021, March 16). Michigan Infrastructure Council Debuts Public and Private Infrastructure 'Dig Once' Coordination Tool. Lansing, Michigan.

The Office of Governor Gretchen Whitmer. (2020, October 8). Gov. Whitmer announces initiatives to increase high-speed internet across Michigan. Lansing, Michigan.



## Appendix B: Outreach and Engagement Activities

Outreach efforts and presentation events are notably reduced for FY2021 due to continued travel restrictions and conference cancellations due to Covid. The Michigan Infrastructure Council (MIC) anticipates a resurgence in these activities for FY2022.

### MIC Website: [Michigan.gov/MIC](https://michigan.gov/MIC)

Continued limitations to in-person activities throughout much of the year heightened the need for digital communications.. Web traffic to the MIC website has continuously increased at a rate of over 30% annually since it was first made available in FY2019. Throughout FY2021 there was approximately a 10% increase over the previous fiscal year. In addition to providing relevant educational content and timely updates, the MIC website serves as an access point to MIC's asset management tools and templates, including the MIC "Dig Once" Project Portal, as well as many other asset management resources.



MIC has continued to remain committed to engagement across all infrastructure stakeholder groups, despite the challenges posed over the last year. This includes, but is not limited to, public and private utility owners, local, regional, and state representatives, finance, and policy experts, not-for-profit and non-governmental organizations, private industry, and Michigan citizens. Ensuring open lines of communication, consistent messaging, and program alignment, MIC participated in a variety of and virtual presentation events and outreach activities throughout FY2021.

## Outreach and Engagement

Organization
American Public Works Association (APWA) – Michigan Chapter
American Water Works Association (AWWA) – Michigan
Assembly of First Nations
Canadian Network of Asset Managers (CNAM)
Connect313
Connect Michigan
Institute for Asset Management (IAM) – North America
Merit Network, Inc.
Michigan Association of Counties (MAC)
Michigan Association of County Drain Commissioners (MACDC)
Michigan Association of Regions (MAR)
Michigan County Roads Association (MCRA)
Michigan Department of Environment, Great Lakes, and Energy (EGLE)
Michigan Department of Technology, Management, and Budget (DTMB)
Office of Technology Partnerships
Connecting Michigan Communities (CMIC)
Michigan Department of Transportation (MDOT)
Geospatial Utility Infrastructure Data Exchange (GUIDE)
Michigan Mobility 2045
Michigan Department of Treasury
Bureau of Local Government
Michigan Economic Development Corporation (MEDC)
Michigan Electric Co-Op (MECA)
Michigan Gas & Electric Association (MEGA)
Michigan Infrastructure and Transportation Association (MITA)
Michigan Municipal Electric Association (MMEA)
Michigan Municipal League (MML)
Michigan Municipal Services Authority (MMSA)
Michigan Public Power Agency (MPPA)
Michigan Rural Water Association (MRWA)
Michigan State Police – Critical Infrastructure Protection (CIP) Unit
Michigan Townships Association (MTA)
Michigan Water Environment Association (MWEA)
Miss Dig 811
National Governor's Association (NGA)



## Presentations

Subgroup	Organization
October 20, 2020	American Waterworks Association (AWWA) – Regional Meeting
October 29, 2020	Treasury Bureau Directors Meeting
November 17, 2020	Institute of Asset Management – North America Conference
January 21, 2021	State Transportation Committee (STC)
April 14, 2021	Government Finance Officers Association (GFOA)
April 20, 2021	Grand Valley Metropolitan Council (GVMC) – REGIS Meeting
May 20, 2021	Michigan Environmental Justice Conference
June 16, 2021	Lower Grand River Organization of Watersheds (LGROW) Spring Forum
June 29, 2021	MIC AM in the AM Session
September 15, 2021	Michigan Economic Development Corporation (MEDC)

## Appendix C: Integrated Asset Management Terms and Definitions

Integrated Definition Term	Cross-Reference(s)	MIC/Subgroup Approved Definition
Asset	Critical	An asset is an item, thing or entity that has potential or actual value to an organization.
Asset Class		A single type of asset including its network and all associated appurtenances critical to its performance.
Asset Inventory		A list of all physical assets which may be prioritized that an organization is responsible for.
Asset Management System		The formalized activities (policies, processes, procedures, etc.) associated with optimizing the service and lifecycle cost of an asset.
Asset Management Team		The team appointed by an organization to review and monitor the organization's AM improvement program and ensure the development of integrated AM information systems, processes and plans consistent with organizational goals and objectives.
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 established performance goals.
Condition	Condition Assessment	The current state of an asset based on applicable data typically ranging from poor to good.
Infrastructure		A collection of Assets on which the continuation and growth of a community depends, such as energy systems, roads, water, wastewater, and storm water systems, and transportation and communication systems.
Maintenance	Planned/Unplanned, Preventative	All actions necessary for retaining an asset. or to preserve current condition, and to slow down deterioration in order to extend service life and delay when rehabilitation or replacement is necessary.
Rehabilitation		Works to rebuild or replace parts or components of an asset, to restore it to a required functional condition and extend its life, which may incorporate some modification. Generally involves repairing the original asset to preserve and extend service life without resorting to significant upgrading or renewal, using available techniques and standards.





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