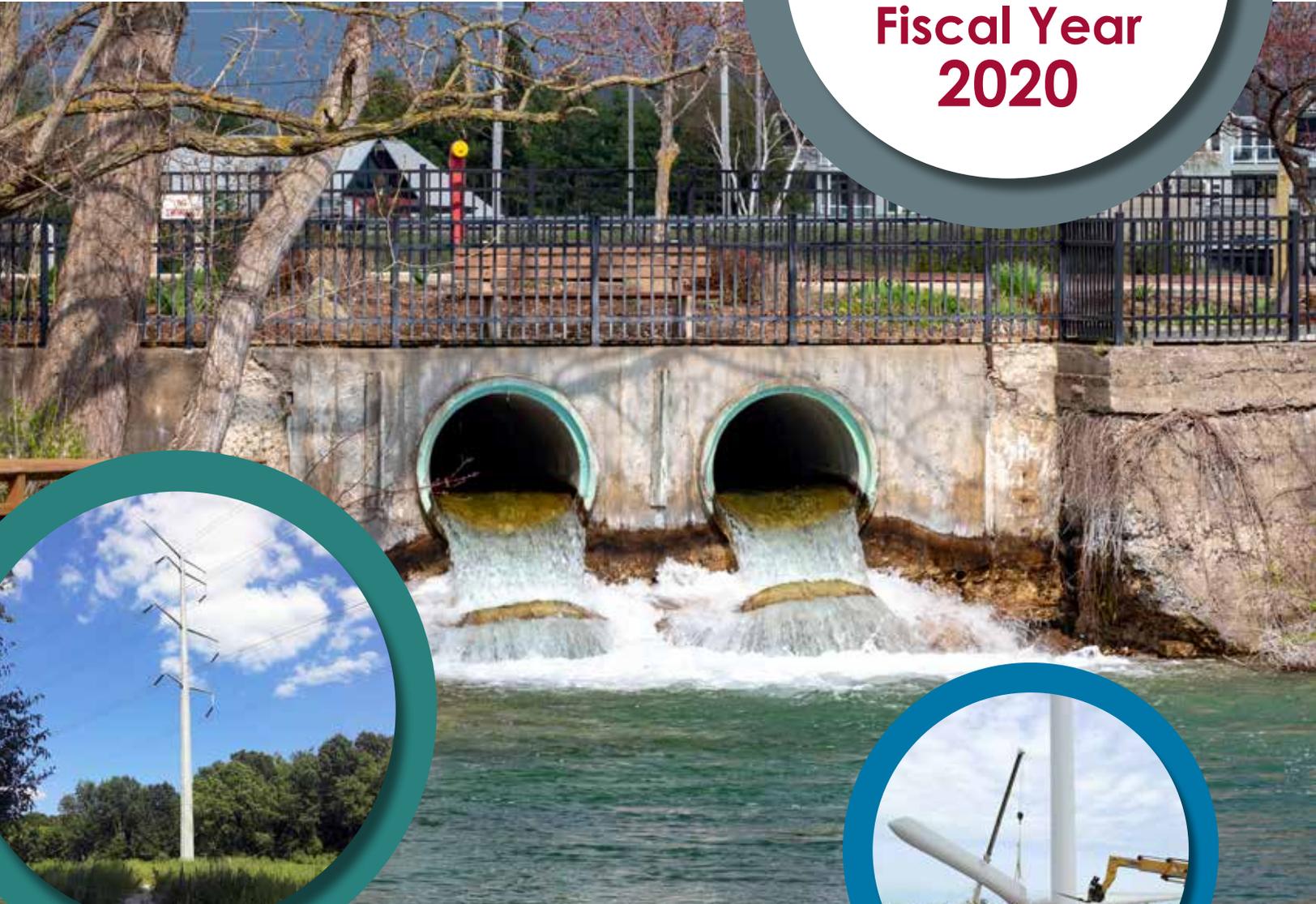




**ANNUAL
REPORT**

**Fiscal Year
2020**



**Developing a 30-Year
Infrastructure Strategy
for Michigan**



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Acknowledgments

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Executive Summary

Without doubt, it has been an unprecedented year. From Governor Gretchen Whitmer's State of Emergency declaration and Safer-at-Home orders in response to the Novel Coronavirus (Covid-19), to the dam failures and subsequent flooding in the Midland area, to the record-setting water levels on Michigan's Great Lakes, the events of 2020 will have a long-lasting impact on the state's infrastructure management and strategy.

Despite these extraordinary circumstances, the Michigan Infrastructure Council (MIC) and its sub-councils the Transportation Asset Management Council (TAMC) and the Water Asset management Council (WAMC) have proven to be both nimble and resilient. In response to social-distancing measures, the councils creatively replaced in-person engagements with webinars, virtual meetings, and online presentations at remote conferences. Similarly, in consideration of statewide budgetary and physical-distancing constraints, the councils worked with countless partners to shift resources, revise timelines, and introduce cost-saving measures. This ability to adjust to current conditions while maintaining a strategic outlook allowed MIC to successfully undertake its full schedule of Year 2 Workplan tasks.

Fall 2019 kicked off another round of Regional Asset Management Summits in partnership with regions across the state. With broad participation across 12 different locations, MIC introduced key initiatives and gathered valuable practitioner feedback that will ensure these endeavors support a long-term infrastructure framework that is realistic, inclusive, and comprehensive. Virtual FY2021 summits are in planning as survey results showed strong support for these short, regionally focused, and engaging conversations.

On February 5, 2020, MIC released the Asset Management Readiness Scale (the Scale), a tool that allows users to assess and rank their asset management competency. Best completed through a cross-functional workshop representing diverse roles from within an infrastructure organization, MIC trained facilitators from across Michigan's regional partners and consultant communities to lead these discussions. The Scale's inopportune debut on the precipice of Covid-19 temporarily delayed the implementation, however virtual meeting tools have since allowed the initiative to resume. With a goal of several hundred completed assessments by

December 2020, Michigan is on the verge of having statewide, baseline asset management data, the ability to analyze and set target improvement goals from those data, and the instrument to conduct systematic reevaluations.



After a busy year of application development and user feedback, MIC will launch the "Dig Once" Project Portal (the Portal) in fall 2020. The Portal will allow authorized public and private asset owners to document future construction efforts across transportation, water, utilities, and telecommunications infrastructure. Leveraging Geographic Information Systems (GIS) technology, the Portal will alert owners of overlapping projects and provide pertinent contact information for collaboration.

The FY2020 activities detailed in this annual report represent a proactive approach for gathering the information and partner feedback needed to build a reliable and resilient infrastructure framework for Michigan. With continued focus on broad collaboration, comprehensive coordination, prioritization of activities, inclusive education and financial recommendations, MIC is proud of FY2020 achievements and remains committed to continued leadership in the development of statewide, long-term, integrated infrastructure strategy.



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 public and environmental health, economic prosperity, and quality of life.



Table 1: Voting Members

Name	Affiliation	Appointed by	Term
Mr. John Weiss, Chairperson	Grand Valley Metropolitan Council	Senate Majority Leader	12/31/2020
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. Dan Fredendall	OHM Advisors	Speaker of the House	12/31/2020
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	12/31/2020
Mr. David Wresinski	WSP USA/WSP Michigan Inc.	Governor	12/31/2021

Table 2: Non-Voting Members

Name	Affiliation	Term
Mr. Ken McFarlane	MDARD - Agriculture and Rural Development	2018 - 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
Mr. Larry Steckelberg	Department of Treasury	2018 – June 2020
Ms. Joyce Parker	Department of Treasury	June 2020 - 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

FY2020 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 2020. A full listing of meeting materials and meeting minutes can be found on the MIC website: www.michigan.gov/mic.

Table 3: FY2020 Meeting Schedule

Date	Notes	Meeting Location
October 10, 2019		Lansing, Michigan
December 12, 2019	MIC Bylaws reviewed and adopted MIC officers elected WAMC members appointed	Lansing, Michigan
Q1 – March 12, 2020	Meeting cancelled due to Executive Order 2020-4: Declaration of State of Emergency	
Q2 – June 11, 2020		Virtual meeting in accordance with Executive Order 2020-75: Temporary Authorization of Remote Participation in Public Meetings
Q3 – September 10, 2020		Virtual meeting in accordance with Executive Order 2020-154: Alternative Means to Conduct Government Business during the COVID-19 Pandemic

FY2020 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 Nominations Committee, and maintained nine informal subgroups in FY2020. Drawing expertise from council members and other partners, this nimble committee and subgroup structure allows for several critical activities to advance in parallel. All committees and subgroups are supported by MIC staff in the Michigan Department of Treasury.



Table 4: MIC Committee FY2020

Subgroup	Participants	Date of Establishment	Status
Nominations Committee: Develops and manages the evaluation and nomination process for WAMC members	Dan Fredendall , John Daly III, Joyce Parker (replacing Larry Steckelberg), David Wresinski, Sue McCormick (WAMC – 2019), Evan Pratt (WAMC – 2020)	December 12, 2019	Active

Table 5: MIC Subgroups FY2020

Subgroup	Participants	Status
Cross-Council Leadership Collaboration: Ensure coordination between the MIC, WAMC, TAMC	John Weiss/Sue McCormick/Joanna Johnson , Kathleen Lomako, Scott House, Bill McEntee	Active
Asset Management Readiness: Develop asset management readiness assessment scale materials, analyze results, and establish performance metrics	Ken McFarlane/Erin Kuhn , Jon Kangas, Nicole Baumer (Tri-County Regional Planning), Tim Colling (Michigan Technological University), Bob Schneider (Michigan Department of Environment, Great Lakes, and Energy)	Active
Definitions & Standards: Establish shared terminology and mutual understanding between asset types (water, transportation, utilities, and communications)	John Daly III , 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
Meeting Minutes: Review and edit meeting minutes	Dan Fredendall , John Weiss	Active
MIC Project Portal - Advisory: Advise on collaborative technology that enables coordination of future construction projects to support "Dig Once" opportunities*	Eric Swanson/Marco Bruzzano , Ryan Laruwe, 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), Bob O'Brien (AT&T) Jeff Parker (Consumers Energy)	Active
Communications: Draft and maintain outreach materials	Marco Bruzzano/Kathleen Lomako , John Daly III, Aaron Keatley, Erin Kuhn	Meets as needed
Regional Asset Management Communication & Coordination Summits: Coordinate, schedule and create content for regional meetings	Erin Kuhn , John Daly III, Dan Fredendall, Jon Kangas, Dave Wresinski	Meets as needed
Strategic Coordination & Investment: Research and advise on infrastructure funding/financing	John Weiss/Kathleen Lomako , Aaron Keatley, Laura Mester, Sharon Schafer, Dave Wresinski	Meets as needed
Reports: Develop content and review MIC reports prior to publication	John Weiss , Jon Kangas, Kathleen Lomako, Palencia Mobley	Meets as needed
* Several industry-specific subgroups were formed to advise on the MIC Project Portal. These subgroups are listed and described in the MIC "Dig Once" Project Portal section of this report.		

Workplan Initiatives

The Michigan Infrastructure Council (MIC) advanced several workplan initiatives in FY2020. 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.

COVID-19 Response Creates Coordination Opportunities

The spread of COVID-19 forced many summer infrastructure projects to rapidly adjust schedules and alter logistics in compliance with new health and safety requirements. Impacted communities had to be notified and resources shifted. In the spirit of collaboration, MIC, its sub-councils, and regional partners, helped facilitate these communications – connecting local units of government with industry sectors and providing time-sensitive updates to rules and regulations. These coordination opportunities will be amplified with the launch of the MIC Project Portal, which will generate automated alerts when construction projects are entered or changed.

MIC “Dig Once” Project Portal

Background

Addressing all underground infrastructure concurrent with road-opening construction, through a “dig once” approach, results in substantial resource efficiencies, cost-savings, and reduced citizen burden. The MIC Project Portal (the Portal) will allow 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 will alert owners of overlapping projects and provide pertinent contact information for collaboration.

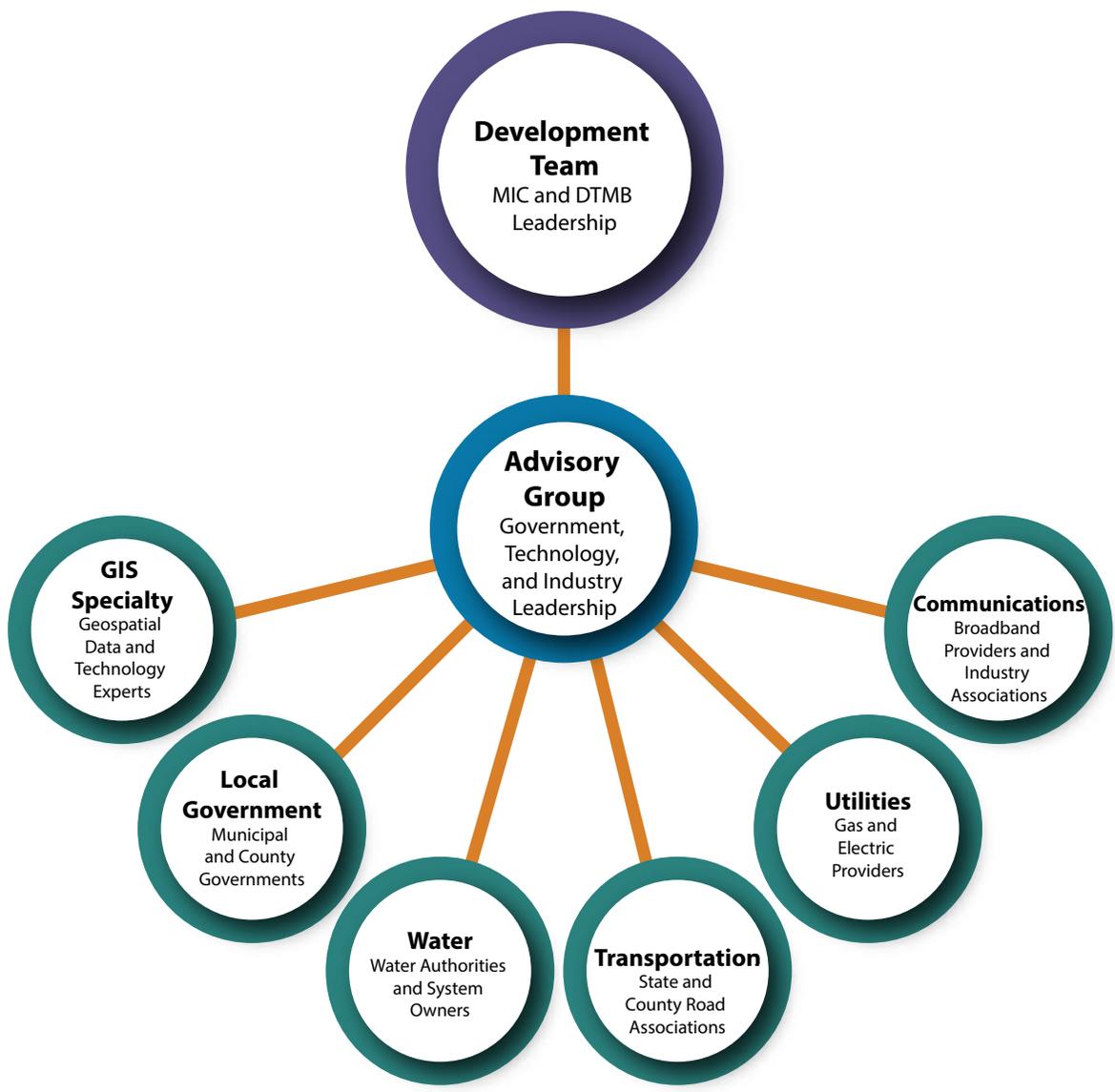
“The MIC Project Portal will allow us to see opportunities for coordination that we might not have known about otherwise”

Bob Stovall, Vice President Infrastructure Strategy and Research
Merit Networks, Inc.

FY2020 Activities

In partnership with the Michigan Department of Technology, Management, and Budget (DTMB), Center for Shared Solutions (CSS), MIC devoted much of FY2020 to the design and development of the Portal. The overall framework adheres to required State of Michigan protocols and replicates standard mapping tools. Additionally, MIC leveraged the spring and fall Regional Asset Management Summits (See the Regional Asset Management Summits section of this report) and cascading advisory groups to gather system design feedback from potential users. This inclusive approach translated into purposeful functionality and features that meet the unique needs of asset owners across varied infrastructure types and system sizes.

MIC Project Portal Development and Advisory Groups

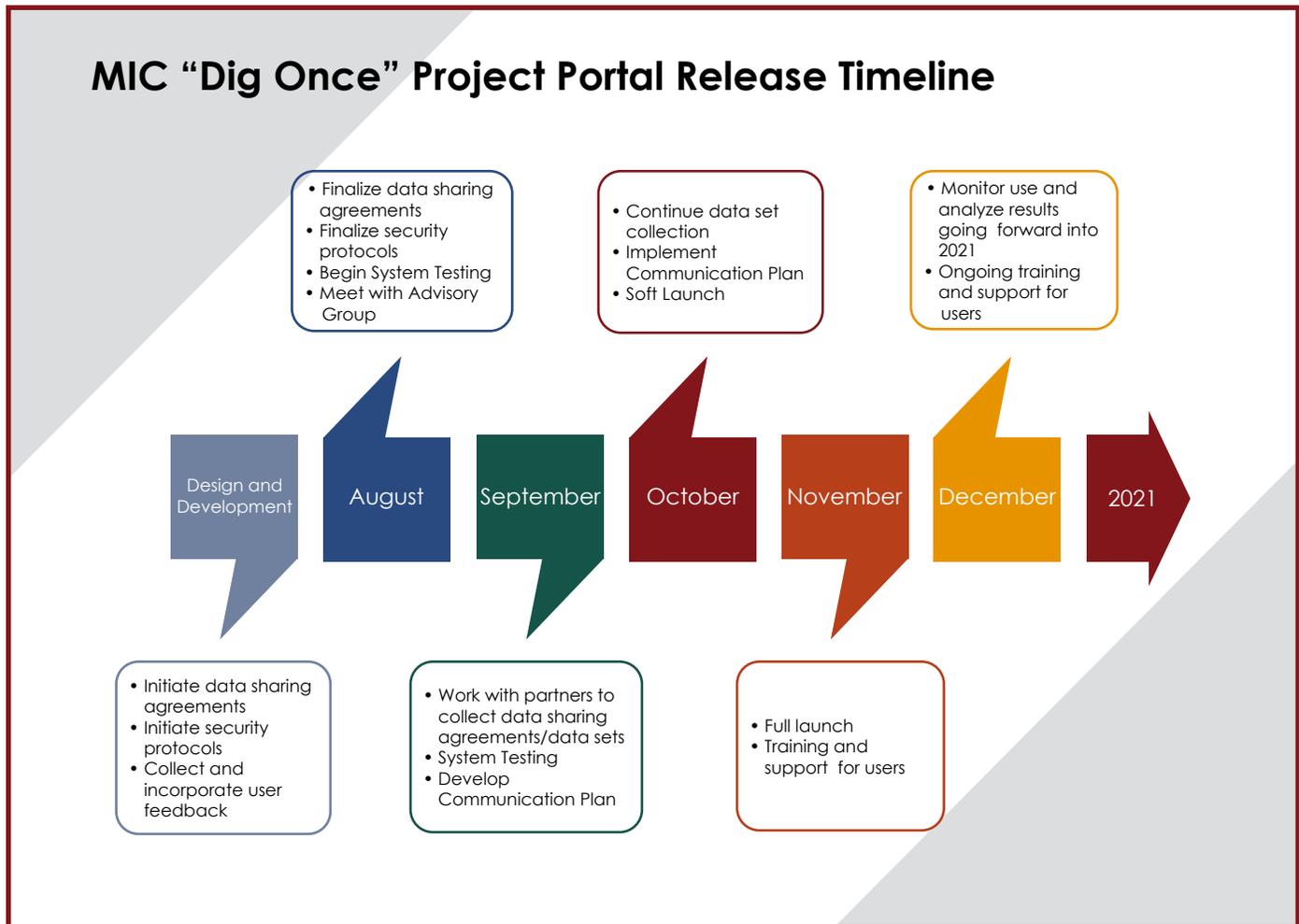


Concurrent with the design and development of the MIC Project Portal, the Development Team worked with State of Michigan Cybersecurity, Identity Management, and Attorney General offices to ensure Portal users and data providers are protected.

"...if you pave a road, you want to make sure everything is fixed underneath, so you don't have to dig it up two months later."
 Alan Cooper, Manager
 Wexford County Road Commission

Next Steps

The MIC "Dig Once" Project Portal will be fully available to authenticated users in fall 2020 (see the Release Timeline, below). A robust Communications Plan leveraging MIC's many outreach platforms and partners will be employed for ongoing assistance and training. Feedback and usage data will be gathered and evaluated throughout FY2021 for incorporation into future updates and releases of the Portal.



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.

Table 6: TAMC/WAMC Council Membership

Council Membership	TAMC	WAMC
Drinking Water, Wastewater, or Stormwater Experience		X
Michigan Association of Counties (MAC)	X	X
Michigan Association of Drain Commissioners		X
Michigan County Road Association (CRA)	X	
Michigan Municipal League (MML)	X	X
Michigan Townships Association (MTA)	X	X
Regional Drinking Water, Wastewater, or Stormwater Authority		X
State Planning and Development Region/Region	X	X
Water Infrastructure Association		X
Michigan Department of Environment, Great Lakes, and Energy (EGLE)		X
Michigan Department of Technology, Management, and Budget (DTMB) - Central Data Storage	X	X
Michigan Department of Transportation (MDOT)	X	

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.

Table 7: Components of the TAMC/WAMC Asset Management Plan Templates

TAMC	WAMC
Asset inventory	Asset inventory
Level of service analysis (Performance goals)	Performance goals
Risk of failure analysis	Risk of failure analysis
Anticipated revenues and expenses	Anticipated revenues and expenses
Performance outcomes analysis	Performance outcomes analysis
Description of plans to coordinate with other entities	Description of plans to coordinate with other entities
Proof of acceptance/adoption by governing body	Proof of acceptance/adoption by governing body

FY2020 Activities

TAMC and WAMC successfully developed their Asset Management Plan (AMP) Templates and announced their three-year rolling schedules for plan submissions. As noted previously, the components of these plans are legislatively identical. Some attempt was made to align community submission dates; however, cross-council coordination was limited for this first cycle. As the councils and AMP activities mature, this coordination is expected to escalate.

TAMC and WAMC are required to submit an annual report to the MIC by May 2 of each year. Both councils met this requirement, publishing an outline of their respective activities and accomplishments for FY2019. Full versions of these reports can be found on the MIC website: www.michigan.gov/mic.

The COVID-19 pandemic impacted many planned events and activities in FY2020. TAMC cancelled their spring conference and postponed the 2020 Federal Aid training and collection of Pavement Surface Evaluation and Rating (PASER) data. This work will resume in accordance with State health and safety regulations. The TAMC FY2020 budget allocations for this year's PASER training and data collection has been extended to June 30, 2021. Similarly, travel restrictions and local government constraints led WAMC to postpone their water AMP activities for one year. Legislative mandates regarding the 2024 submission deadline will still be met.

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 are exploring shared resources, alignment of asset management plans, and educational initiatives. Additional information pertaining to all three councils can be found on the MIC website: www.michigan.gov/mic.





1. Regional Asset Management Summits

2. Emerging Initiative: AM in the AM Session

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 Regional Asset Management Summits and AM in the AM Session demonstrate the overarching value of shared engagement.

Regional Asset Management Summits

Background

MIC, in partnership with regions across the state, executed a two-part summit series aimed at improving coordination and collaboration across a diverse set of partners in water, transportation, utilities, and communications infrastructure. The series consisted of statewide meetings in the spring and fall of 2019 and was funded by Integrated Asset Management grants provided through the Michigan Regional Prosperity Initiative.

FY2020 Activities

Twelve summits were held across the state throughout fall 2019 and early winter 2020. Themed, "Continuing the Conversation,"



FALL SUMMITS – BY THE NUMBERS

12 summits in **12** communities over **5** weeks*

Over 500 participants including government officials representing local, regional, state, and tribal jurisdictions, private utilities and telecommunications, non-governmental organizations, and consultants

64% repeat participants from the spring summits

* 2 Summits moved to early 2020 due to weather and scheduling conflicts



the summits emulated the fast-paced format of the successful spring events. Within a span of 2.5 hours, participants received updates on statewide asset management efforts, identified future infrastructure projects through an interactive mapping activity, and provided valuable practitioner feedback on several MIC priorities. A statewide summary from the fall Regional Asset Management Summits can be found on the MIC website: www.michigan.gov/mic.

Next Steps

As measured through participant surveys, there is strong support for continuing the Regional Asset Management Summits, with nearly every response indicating a desire to meet annually or semi-annually, based upon scheduling, budget, and training needs. Similarly, there was support for keeping the summits short and information focused. Constraints to travel due to COVID-19 funding reductions and social-distancing restrictions will necessarily lead to an online format in FY2021.

MIC will continue to work with the Michigan Association of Regions (MAR), sub-councils TAMC and WAMC, and key partners around the state to pursue future summit opportunities and develop best practice asset management content. A full listing of future events as well as agenda content can be found on the MIC website: www.michigan.gov/mic. Given the success of the 2019 summit series, MIC is seeking additional funding to continue these events in FY2021.



Emerging Initiative: AM in the AM

MIC rolled out a new collaborative forum this year, lightheartedly named AM in the AM (Asset Management in the Morning). Designed as an informal coffee klatch, the forum is intended to serve as an opportunity for information-exchange between MIC and Michigan's consultant community.

The inaugural AM in the AM session took place on February 25, 2020 in Okemos, Michigan with over 35 private consultants and industry organizations in attendance. The participants were introduced to the newly released Asset Management Readiness Assessment Scale and encouraged to use the tool with their clients to baseline and improve asset management competency.

Due to COVID-19, additional AM in the AM sessions were temporarily halted. Meetings are anticipated to resume, either in-person or virtually, in FY2021.





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.

FY2020 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 FY2020, 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.

Table 8: 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 8: 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

The subgroup is currently reviewing the compiled terminology and developing the MIC glossary. Once the terms and definitions are agreed upon, this 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.

Per 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." The over 150 recommendations from these combined reports continue to guide MIC' workplan initiatives. As demonstrated through the FY2020 evaluation, nearly 35% of the combined recommendations are being implemented through current or planned MIC activities and initiatives. The full FY2020 evaluation can be found on the MIC website: www.michigan.gov/mic.





1. Asset Management Readiness Assessment Scale

2. Emerging Initiative: Infrastructure Service Areas

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.



FY2020 Activities

Leveraging MIC's subgroup structure and partnership with the Michigan Association of Regions (MAR), the council was able to build, test, conduct training, and deploy the Scale in less than six months. This aggressive release schedule included a two-day, on-site train-the-trainer education forum for regional

leaders, twelve Regional Asset Management Summits, and an AM in the AM session for Michigan's consultant community (see the Collaborate section of this report).

"For the first time ever, this tool will enable infrastructure owners across the state to produce consistent asset management metrics..."

John Weiss, Executive Director
Grand Valley Metro Council
and MIC Chairperson

The Asset Management Readiness Assessment Scale is intentionally designed to facilitate discussion and is best completed by cross-functional teams

within an infrastructure organization. The Scale was officially released on February 5, 2020, just a few weeks before Governor Gretchen Whitmer's Declaration of Emergency and related Covid-19 Stay-at-Home orders. As a result, efforts to fully implement the Scale, in-person, were temporarily delayed as the state, regions, and local communities responded to the pandemic. The implementation schedule was able to resume on June 9, 2020, using virtual meeting tools. The CNAM vendor led a "refresh" training webinar for regional partners that included techniques for remote meeting facilitation and data collection.

"We tested the Asset Management Readiness Scale for our stormwater system...the Scale helped us know where to focus our efforts."
Curtis Holt, City Manager
City of Wyoming, Michigan

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

Next Steps

The assessment data will be collected from infrastructure owners and managers by regional or consultant partners, who will deidentify and aggregate results prior to submission to MIC. Two collection periods have been established: Summer – ending September 30, 2020 and Fall – ending December 31, 2020. The Asset Management Readiness subgroup will initiate data analysis during the first quarter of 2021.

Emerging Initiative: Infrastructure Service Areas

Understanding the geographic extent of infrastructure service boundaries is critical for incident response and efficient asset management. Predominantly aligned with political boundaries and recognizable through a visible network of roads, bridges, and associated assets, ownership of Michigan's transportation network is well-known and mapped. The service areas for other infrastructure types, including gas and electric utilities, drinking water and wastewater systems, and broadband providers are much less defined. Presently, MIC is working with the Michigan Public Service Commission and the Michigan Department of Technology, Management, and Budget, Office of Technology Partnerships to begin collecting these ownership boundaries for gas and electric utilities. MIC hopes to engage with other partners, growing this infrastructure base map to include the geospatial boundaries for water and communications systems. Having a consistent, accessible, and statewide map of these service areas may serve as the foundation for more precise asset-level data in the future.



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 is poised to deliver in upcoming years.



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 has been 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.



Work Project	Expense	Balance
Beginning Balance		\$1,500,000
FY2018	\$ 19,394	\$1,480,606
FY2019	\$400,070	\$1,080,536
FY2020*		
Administrative Costs <i>Staff Salaries, Office Administration, and Council Expenses**</i>	\$367,976	
Research and Education <i>Encumbered Funds – Asset Management Readiness Assessment Services Contract</i>	\$ 10,500	
Asset Management Planning	\$ 5,000	
Other Projects <i>Outreach and Communications Materials, Regional Asset Management Summits</i>	\$ 2,038	
Ending Balance*		\$695,022

* Projected through September 30, 2020

** Staffing offer rescinded due to Executive Directive 2020-04: Moratorium on State Hiring, Creation of New Positions, Filling Vacant Positions, Transfers, and Promotions

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. (2020). Michigan's 2019 Roads & Bridges Annual Report. Lansing.

Michigan Water Asset Management Council. (2020). 2019 Annual Report. Lansing.

Michigan Infrastructure Council. (2019). Continuing the Conversation: Regional Infrastructure Asset Management Summits Fall 2019 Summary Report. Lansing.

Michigan Infrastructure Council (2019). Fiscal Year 2019 Annual Report: Developing a 30-Year Infrastructure Strategy for Michigan. Lansing.

News Releases

Asset Management Tool to Infrastructure Owners. Retrieved from Michigan Department of Treasury Press Releases: https://www.michigan.gov/treasury/0,4679,7-121-1755_1963-519916--,00.html

State of Michigan. (2019, December 11). Governor Whitmer Makes Appointments to Boards and Commissions. Retrieved from The Office of Governor Gretchen Whitmer: https://www.michigan.gov/whitmer/0,9309,7-387-90499_90640-514447--,00.html

Articles and Other Publications

Department of Environment Great Lakes and Energy: <https://www.michigan.gov/egle/0,9429,7-135--532528--00.html>

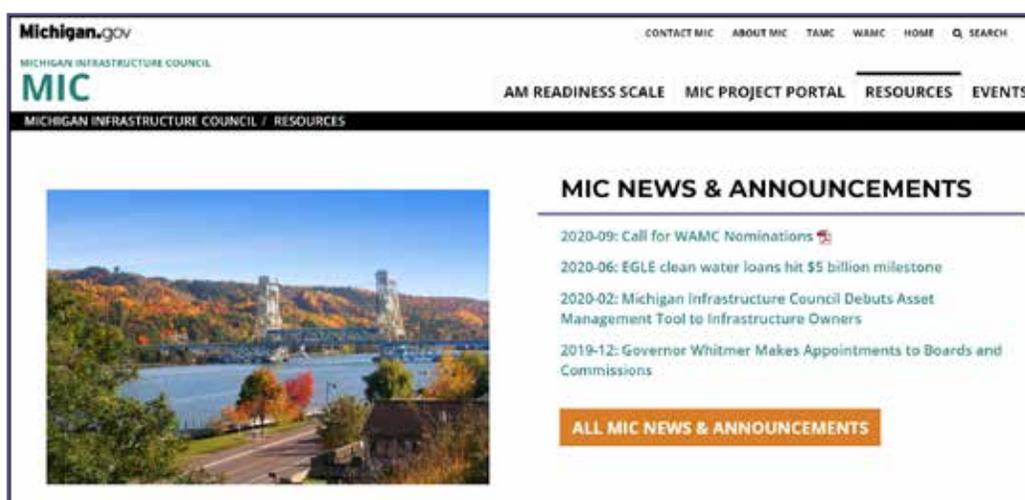
Wynder, E. (2019, October 18). Summit addresses road woes. Retrieved from Grand Rapids Business Journal: <https://grbj.com/news/summit-addresses-road-woes/>

Appendix B: Outreach and Engagement Activities

Governor Gretchen Whitmer issued a State of Emergency on March 10, 2020. Outreach efforts and presentation events are notably reduced following this declaration due to Stay-at-Home orders, increased travel restrictions, and conference cancellations. The Michigan Infrastructure Council (MIC) anticipates a resurgence in these activities for FY2021 as postponed events are rescheduled and virtual conference options are planned.

MIC Website: Michigan.gov/MIC

Limitations to in-person activities has also heightened the need for digital communications. MIC manages a comprehensive website to provide relevant educational content and timely updates to its partners. Since FY2019, web traffic to the MIC website has increased over 30% annually with access peaks occurring in alignment with key reports, communications, and outreach activities. For example, when the Asset Management Readiness Assessment Scale was released in February 2020, there was an approximate 190% increase in website traffic when compared to a similar timeframe the previous year. As MIC matures, this site will serve as an access point to additional dashboards and analytics, asset management tools and templates, including the MIC “Dig Once” Project Portal, and other resources.



MIC remains committed to engagement across all infrastructure stakeholder groups. 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. To ensure open lines of communication, consistent messaging, and program alignment, MIC has participated in a variety of outreach activities and presentation events throughout FY2020.



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
Institute for Asset Management (IAM) – North America
ISO (US Technical Advisory Committee to ISO 251)
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)
Climate Coalition
High Water Work Group
Water Infrastructure Work Group
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 State University Institute for Public Utilities (IPU)
Michigan Townships Association (MTA)
Michigan Water Environment Association (MWEA)
Miss Dig 811
National Governor's Association (NGA)
Public Sector Digest



Presentations

Subgroup	Organization
October 15, 2019	Regional Asset Management Summit – RPI Region 4 – West Michigan Shoreline Regional Development Commission (WMSRDC)
October 16, 2019	Regional Asset Management Summit – RPI Region 9 – Region 2 Planning Commission (R2PC)
October 18, 2019	Regional Asset Management Summit – RPI Region 6 – GLS Region V Planning and Development Commission
October 23, 2019	Regional Asset Management Summit – RPI Region 5 - East Michigan Council of Governments (EMCOG)
October 28, 2019	Regional Asset Management Summit – RPI Region 1a – Western Upper Peninsula Planning & Development Region (WUPPDR)
October 30, 2019	Regional Asset Management Summit – RPI Region 1b – Central Upper Peninsula Planning and Development Regional Commission (CUPPAD)
October 30, 2019	Transportation Asset Management Council (TAMC) – Fall Conference
October 31, 2019	Regional Asset Management Summit – RPI Region 1c – Eastern Upper Peninsula Regional Planning and Development Commission (EUPPDC)
November 4, 2019	Regional Asset Management Summit – RPI Region 2 – Networks Northwest
November 5, 2019	Regional Asset Management Summit – RPI Region 7 – Tri-County Regional Planning Commission (TCRPC)
November 6, 2019	Regional Asset Management Summit – RPI Region 3 – Northeast Michigan Council of Governments (NEMCOG)
December 3, 2019	West Michigan GIS
December 9, 2019	Grand Rapids Chamber of Commerce
December 10, 2019	Asset Management Readiness Assessment Scale – Beta Test – City of Wyoming/City of Fremont
January 29, 2020	Michigan Municipal Executives (MME)
February 6, 2020	State of Michigan GIS Users Group
February 7, 2020	Regional Asset Management Summit – RPI Region 8 – Southwest Michigan Planning Commission (SWMPC)
March 3, 2020	Regional Asset Management Summit – RPI Region 10 – Southeast Michigan Council of Governments (SEMCOG)
March 4, 2020	Department of Treasury Bureau of Local Government – Fiscally Ready Communities Workshop
Cancelled	Michigan Municipal League (MML) – Capital Conference
Cancelled	Michigan Rural Water Association (MRWA) – Annual Conference
Postponed	Michigan Department of Environment, Great Lakes, and Energy – Great Lakes Water Infrastructure Conference
Cancelled	Transportation Asset Management Council – Spring Conference
May 20, 2020	AME - Asset Management Ecosystem (Virtual)
August 28, 2020	American Association of State Highway and Transportation Officials (AASHTO) - Committee on Internal and External Audit (Virtual)



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