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Data Collection is Progressing

Communities and utilities in West Michigan and Southeast Michigan are collecting data that will help develop a system to assess our understanding of Michigan's assets across transportation, water, sewer, and stormwater assets and capital projects.

The data collection process is now entering into its second month, and as the pilot continues to work through this important phase, seventy-six communities are already participating or have indicated they are interested in participating in the data collection portion of the pilot.

The deadline for data submission was originally November 1, 2017. In order to provide communities more time to accumulate the data and allow more interested communities to participate, the deadline has been extended to December 1, 2017. Although we will be accepting data up until that date, please still submit data as soon as possible. If you have not yet indicated your interest in participating in the pilot to the following regional contacts, please do so:

Region 4 West Michigan Prosperity Region
Jason Moore, Moorej@gvmc.org

Region 10 Detroit Metro Prosperity Region
Ann Burns, burns@semcog.org

We have received data across all asset classes that the subject matter experts decided upon, with a majority of that data being in GIS format. The State of Michigan's Department of Technology, Management, and Budget team is working with regional GIS teams and communities submitting non-GIS data in order to translate spreadsheet-based information into the common GIS mapped representation decided upon by the subject matter experts.

This team is also starting to analyze incoming data to create preliminary reports of what the data is showing. Additionally, meetings continue to take place with utility partners to gather information related to utility project information, broadband access and coverage.

Region 4 Data Collection Update

Response to the infrastructure pilot within the West region has exceeded expectations. Currently, over 60 communities are interested in participating or have already submitted their data. [Click to View Map](#)

To enhance participation, the GVMC, in cooperation with the West Michigan Prosperity Alliance (RPI Region 4) has made available mini-grants to small communities interested in participating in the pilot but are in need of assistance with resources to be able to submit data. Numerous meetings and outreach efforts have taken place with elected officials, public works directors, city managers and others responsible for infrastructure. Additionally, a meeting hosted by the Mayors of Grand Rapids and Hudsonville was recently held for the mayors in Region 4, of which, the pilot program and its current data collection efforts were discussed. Over 30 mayors attended to learn more about the pilot.

Region 10 Data Collection Update

SEMCOG hosted a number of meetings with elected officials, public works directors, and county drain commissioners to follow up on the governor's invitation to participate in the asset management pilot program. The region has had great response from the communities across Macomb, Oakland, Washtenaw and Wayne Counties, as well as participation from water and transportation agencies. [Click to View Map](#)

SEMCOG will continue to work diligently with these and additional entities throughout November to ensure that Southeast Michigan data is well represented in the pilot project, and as this work continues toward the development of new processes and procedures.

Data Sharing Agreement

It is crucial that any community who wishes to participate in the pilot sign a Data Sharing Agreement. This agreement ensures that the data being submitted will only be used for the purposes of this pilot and offers important data security protection. The privacy and security of this data is a top priority of the pilot. If you have any questions regarding the Data Sharing Agreement or the data security measures currently in place for the pilot, please contact Therese Empie (empiet@michigan.gov).

You can access the Data Sharing Agreement here: [Data Sharing Agreement.doc](#)

Data Collection and IT Systems Functionality

The next phase of the pilot, which is running concurrently with the data collection process will be to identify IT database system requirements with feedback from regional and local experts. The creation of the pilot database schema, derived from the subject matter expert workshops, will be a starting point for determining the organization and structure of the recommended database, as well as plan for its functionality.

The pilot is working from a three-tier structure for determining data collection, aggregation and analysis processes and recommendations. This model includes:

- Tier 1- Data collection and management at the local level.
- Tier 2- Statewide Standardized Data Repository
- Tier 3- Reporting and Analytics

At the October stakeholder and advisory board meeting, there was a discussion around the need at a local level for a Tier 1 system and the potential need for state-assisted data collection and management for use by local asset owning entities.

The pilot is currently utilizing the Michigan Geographic Framework (MGF) as a depository for information received since it is currently leveraged by numerous Tier 1 systems already in use. The MGF is presently undergoing a system upgrade, and the pilot process has been leveraged to determine how the new system will interact with other systems as well as the proposed statewide infrastructure asset management database.

The advisory board, with input from subject matter experts, is working to determine Tier 3 reporting tools, including reports, ad hoc queries, and data analytics for inclusion in the final report.

The subject matter experts will continue to meet in order to determine what outcomes the local communities and regions want to see in an IT system for pilot and long-term functionality. The pilot will plan to demonstrate this functionality, providing various reporting and charting capabilities across single assets or multiple assets collectively. Such capabilities could include the visualization and comparative analysis of an assets cost of replacement, depreciation and lifecycle, and asset

inventories encompassing age and/or material types, condition grade, or remaining life. Other capabilities could include project planning and management tools or assessment of collaborative funding requirements over specified periods of time.

Meeting Update:

October 30, 2017 – Stakeholder and Advisory Board Meeting

Stakeholder and Advisory Board members met in Lansing to hear updates on the pilot's data collection efforts and learn more about functionality options of an IT system. Presentations were also provided to enhance the pilot's ongoing efforts and vision including TAMC's updated Investment Reporting Tools functionality and a discussion around creating a cultural change in asset management including the role of the Asset Manager.

TAMC Reporting Functionality

Aligning to the discussion about IT systems and functionality, TAMC's Dave Jennett and Joanna Johnson gave an overview of TAMS's new Investment Reporting Tool (IRT) and dashboard capabilities. The new IRT encompasses improved technology and increased stability, an enriched home page, expanded reports and map printing capabilities, and better integration with Roadsoft. Moreover, based on user feedback, the dashboard provides a more innovative way to view project details on the map as well as a proactive reporting status reminder popup message when an agency is nearing it completion data. Most recent additions comprised improvements for Regional Coordinators, added reports, training and resources, a streamlined PASER submission review process, and looking forward more advanced Interactive Maps.

Creating the Next Generation of Asset Managers

Michigan is currently embarking on a significant infrastructure journey. In order to make sure we don't end up right back where we are today, we need to have a culture change in infrastructure owning / managing agencies. Thus, an important outcome of the pilot is to provide recommendations for building a culture of asset management in Michigan.

Creating a culture change centered on asset management is going to take new leaders with new skills which are a mix of technical and financial. Benchmarking asset management globally, other countries have adopted this approach with the role of Asset Manager as a high ranking job title. Additionally, success has been linked to an organizational culture that not only supports asset management but also provides transparency and ensures the presence of a change champion.

To implement change, skills related to asset management and technology are required. However, the challenge is that there are currently no, or few programs in higher education that provide these skills despite the best efforts of national leaders in the field. While subsequent countries provide professional certification and degree programs in

asset management, the US, and Michigan struggle with validating this requisite. Training and skill development in asset management require a push from the higher education and academic side, while concurrently leveraging existing resources from the employer side by way of professional development and skills training. We need to jump start an education initiative to develop the leaders that will be needed to maintain tomorrow's infrastructure otherwise we will be stuck in the "chicken or the egg" paradox of needing qualified people, but not having training programs in place to produce them. Wrapping up the meeting, the first outline draft of the final report was presented, with a request to provide feedback.

Upcoming Meetings

November 9, 2017

Michigan Asset Management Pilot Subject Matter Expert Webinar
10:00 a.m. – 11:00 a.m.

November 14, 2017

Asset Management West MI Community Call 2
3:00 p.m. – 4:00 p.m.
Conference: 1-888-278-0296; Access Code 5440627

November Stakeholder Meeting

Note: The November 30th Stakeholder Meeting will be rescheduled to December 14th. Please check your email for a calendar notice regarding new time and location.

Next Steps

- Data packets received no later than December 1, 2017
- Data Sharing Agreements due by December 15, 2017

Reminder

You can access applicable meeting notes, resources, and presentations on the MI Infrastructure Asset Management pilot SharePoint site. If you do not have an account set up please contact Therese Empie at empieT@michigan.gov for additional information.

Communications and Resource Links

Michigan Asset Management Pilot Video:
[Michigan Asset Management Pilot](#)

How to Write an Asset Management Plan (IPWEA):
[Asset Management Plan](#)

The Asset Management Journey (IAM):
[The Asset Management Journey](#)

Full Data Request Packet (PDF):
[Data Request Packet.pdf](#)

Data Request Packet FAQ (Word Document):
[Frequently Asked Questions.doc](#)

CONTACTS:

Claire Khouri, Governor's Office
khouriC@michigan.gov

Angela Ayers, Governor's Office
ayersA@michigan.gov

Therese Empie, Governor's Office
empieT@michigan.gov

Carmine Palombo, SEMCOG
palombo@semcog.org

John Weiss, GVMC
john.weiss@gvmc.org

Erin Kuhn, WMSRDC
ekuhn@wmsrdc.org

Gareth Lifton, KPMG
glifton@kpmg.com

Elaine Taylor, KPMG
elainetaylor@kpmg.com