Bridge Asset Management / TAMC

- Brief Background on the Transportation Asset Management Council (TAMC)
- New Technologies / Updates in 2017/2018
  - TAMC Website
  - Investment Reporting Tool (IRT)
  - Annual Report Items
  - Dashboards
  - Interactive Maps
- Culvert Pilot
- Events and Communication
Support Excellence in Managing Michigan’s Transportation Assets

• Advise Michigan Legislature & State Transportation Commission
  ✓ Collect asset data to inform condition & activity reports
  ✓ Make future condition projections
• Promote asset management principles
  ✓ Provide data to owners to “seed” activity
  ✓ Provide training to owners
• Provide tools & practices for road agencies
  ✓ Roadsoft integration on collection and reporting
  ✓ Data analysis tools
  ✓ Best practices conferences
  ✓ Recognition of performance (awards)
TAMC Website

- New Technology for ease of use & stability
- Responsive Design
  - Desktop
  - Tablet
  - Phone
- Houses the IRT, Interactive Map and Dashboards
TAMC Website – Support & Training
• Each road and bridge owning agency must report any road and bridge projects for the current fiscal year
  (Project = The what, the where, the when and total cost)
• Also any future projects planned within the next 3 years
• And indicate their status to the TAMC when they have completed their reporting and a survey on their asset management process.
• In 2016 this reporting was tied to the overall Act 51 compliance reporting process
The Old IRT...
IRT 2.0 – The New…
IRT 2.0 – Investment Reporting Tool

✓ New Technology & increased stability
✓ Responsive Design – Desktop, Tablet, Phone
✓ New Home page and Feedback on Compliance
✓ New Reports
✓ Modernized Intuitive Layout
✓ Map Printing – PDF & light customization
✓ ADA Compliant
IRT 2.0 – Roadsoft / Shared Services
IRT 2.0 – Asset Management Information

Asset Management Information

REPORTING - PROVIDE BACKGROUND INFORMATION AND ASSET MANAGEMENT PLANS

The questions listed in the New Asset Management Information section are part of the overall reporting requirement of Public Act 495 of 2020 (as amended). It is expected that jurisdictions will answer the questions to the best of their knowledge as to how their agency manages their road and bridge assets. Agencies are encouraged to upload related asset management plans and/or related documentation as this will assist the TANC and legislators in better understanding the needs and overall processes used by Michigan’s road owning agencies.

NOTE: When you open the Submit New Asset Management Information, answering Yes or No to question #1 is mandatory in order to successfully complete the reporting requirements for Public Act 57 reporting. If question #1 is not answered, funding could be potentially withheld. (Please remember to also update the Overview page to indicate “Complete” after entering road and bridge projects, as this is also mandatory for reporting.)

NEW ASSET MANAGEMENT INFORMATION

To submit New Asset Management Information, start here:

Submit New Asset Management Information

RESOURCES AVAILABLE

Workshops and Training
There are workshops and training related to Asset Management available thru CTT at:
https://www.ctt.msu.edu/asset-management-resources

Additional Reference Material
Other Asset Management reference materials are located on the TANC website at:
http://tanc.michigan.gov/tanc/Roadway/AssetManagement

Contact Information
If there are questions about the Asset Management templates or other items on this page, please contact the TANC Coordinator:
IRT 2.0 – User Feedback Matters
IRT 2.0 – User Feedback Matters

Reporting Status Reminder

In order to be Act 61 compliant, remember to update Reporting Status on the IRT home page to being "Completed"

Even if there were no road or bridge projects for the current fiscal year, completing your status indicate that you have finished your reporting to TAMC.

Submit Asset Management Information

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Road</th>
<th>Bridge</th>
<th>Asset Management</th>
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<td>2016</td>
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IRT 2.0 – Preliminary Annual Report Data

- IRT Project Level Information
- IRT Project Cost Information
- Asset Management Information
## IRT 2.0 – Bridge Projects & Costs Summary

<table>
<thead>
<tr>
<th>Bridge Projects Details</th>
<th>2016</th>
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<th>2017</th>
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<td></td>
<td>Count</td>
<td>Cost</td>
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<td>Cost</td>
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<td>Capital Preventive Maintenance Projects</td>
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<td>Structural Improvement Projects</td>
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<td>$9,860,236</td>
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<td>$1,333,682</td>
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<td>Total Number of Bridge Projects</td>
<td>175</td>
<td>$78,421,087</td>
<td>112</td>
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## IRT 2.0 – Asset Management Summary

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<th>Question</th>
<th>2017 (393 total)</th>
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<tbody>
<tr>
<td>Does your agency have a written Asset Management Plan?</td>
<td>Yes</td>
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<td>101</td>
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<td>Does your agency use an asset management process?</td>
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<td>Does your agency have separate plans or condition goals for the Primary Road/Major Street versus the Local Road / Street networks?</td>
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<td>Does your agency use pavement management software or tools to identify and prioritize future road projects?</td>
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<td>Does your agency use a variety of preventive maintenance and rehabilitation treatments for roads?</td>
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<td>Does your agency plan road projects 3 or more years in advance?</td>
<td>206</td>
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Performance Dashboards

- TAMC Dashboards
  - Pavement
  - Bridge
  - Traffic
  - Safety
  - Maintenance
  - Finance
- Updates in May
Bridge Dashboard Features

- Conditions By Year
- Trend Conditions
- Trend Analysis - Historical vs Forecasted
- Geographic Area
- Number of Bridges
- % of Bridges
- Total Deck Area
- Structurally Deficient Deck Area
Bridge Comparison Dashboard Features

- Up to 8 Areas
  - Region
  - County
  - City
  - Village
- All Bridge Types
- Non-Trunkline
- Trunkline
Interactive Map 2.0

- New Technology & increased stability
- Responsive Design – Desktop, Tablet, Phone
- Modernized
- Intuitive Layout
- Map Printing – PDF & light customization
Interactive Map

- Road Conditions
  - (2016-2012)
- Bridge Conditions
  - (2016-2015)
- NTFA
- Traffic AADT / CADT
- Planning Organizations
- Prosperity Regions
Interactive Map

- Advanced Search
- Filter by Good Fair Poor Condition
- Street, Hybrid, Aerial
- Print Options
- Export of PASER Data
- Updates planned in May
- 2017 Bridge and Road Data layers in May
Summer 2018 - IRT Projects and the Interactive Map
Summer 2018 - IRT Projects and the Interactive Map
What does the future of TAMC look like?

- Strategic Planning & Work Program 2017 – 2019
- FY 2018 Revamped Regional-Metropolitan Unified Work Program Language
- Update of Budget Process
  - FY2018 $250,000 Budget Increase Request
- Asset Management Plans
- Communication & Outreach Efforts
- 21st Century Infrastructure
  - Michigan Infrastructure Commission
  - $2 Million Culvert Pilot Project
Culvert Pilot Project

- Collaborative Effort - Bridge committee doubled in size as a working group
- Initial Steps – Develop work plan, survey agencies and begin training for the pilot
- Extremely tight time frame - getting through the pilot and providing final report in September

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<th>Task</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
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Culvert Pilot Project

• TAMC Culvert Pilot Project Survey Results –
  • Agencies willing to participate: 81
    • Tier 1: 39 - Have not inventoried or condition evaluated culverts
    • Tier 2: 33 - Have a portion of their culverts inventoried but none or very few have had their condition evaluated on a routine basis (at least once every 5 Years).
    • Tier 3: 9 – Have most of their culverts inventoried and their condition evaluated on a routine basis (at least once every 5 years)
  • Agencies not able to participate: 60
    • Local Agency Culvert Inventory and Condition Evaluation Pilot Survey Potential Participant Map (next slide)
Statewide Representation

City/village
- Tier 1 - Dark Green
- Tier 2 - Tan
- Tier 3 - Brown

Counties
- Tier 1 _ Green
- Tier 2 - Yellow
- Tier 3 - Red

Stars- MDOT Culvert Mapping Project
TAMC Announcements

• Save the Date
  ✓ Spring TAMC Conference May 22\textsuperscript{nd} – Traverse City
• Nominations for Individual & Organization Awards
• 2018 Training Schedules
  ✓ PASER Training
  ✓ IRT/ADARS Training
  ✓ Local Elected Officials
• 2017 Annual Report – May
• Dashboard Updates – May
• Interactive Map Updates – May
TAMC Website - www.michigan.gov/tamc

Join the TAMC Mailing List for the Latest Updates
Thank you & Questions ?’s

Roger Belknap – TAMC Coordinator
• belknapr@michigan.gov
• (517) 373-2249

Dave Jennett – TAMC, MDOT / AMPD
• jennettD@michigan.gov
• (517) 335-4583

Bill McEntee – TAMC Council Vice-Chair
• bmcentee@rcoc.org
• County Road Association

TAMC IRT Helpdesk – CSS
• CSS-TAMC@mi.gov
• (517) 373-7910