Welcome & Overview

Midwest Bridge Preservation Partnership
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Brought Together By the Mackinac Bridge
Michigan Economics

• Automotive capital of the world

• 2nd most diverse agriculture in nation

• Among top 10 vacation stops nationally
Michigan Lifestyle

• #1 per capita in golf courses
• #1 per capita in second homes
• #1 per capita in boat, snowmobile registrations
• More coastline miles than California or Florida
Climatic Differences

- Northern state with heavy snowfalls
- Lake effect snows
- Deterioration rates are different
State and Local Government in Michigan

- Michigan has over 1,800 local governments with zoning and planning authority:
  - 83 counties
  - 533 cities and villages
  - 1,242 townships
- 83 County Road Commissions
Bridge Responsibilities

- The Michigan Department of Transportation (MDOT) manages state-owned bridges.
- Local Agencies (Counties and Cities) are responsible for their bridges.
Bridge Count

- **MDOT Bridges**
  - Highway bridges greater than 20 feet long = 4,465
  - Highway structures less than 20 feet long = 1061
  - Pedestrian Bridges = 173
  - Railroad bridges MDOT responsible for = 128

- **Local Agencies Bridges**
  - Highway bridges greater than 20 feet long = 6445
  - Highway structures less than 20 feet long = 76*
  - Pedestrian Bridges = 61
  - Railroad bridges LAs are responsible for = 253

LAs not required to collect this, so value is likely very low
“Providing the highest quality integrated transportation services for economic benefit and improved quality of life.”
MDOT Organization

• Central Office
  – Policy, program-level direction, diverse experts

• Regions
  – Plans & programs
  – Consistency with statewide direction

• Transportation Service Centers
  – Project delivery
  – Customer service
Asset Management
Bridge Asset Management

Design
- Preliminary Design
- Final Design
- Engineers Estimate

Project Selection Process
- Call for projects
- Scoping
- Programming (MPINS)

Construction
- R&R
- CPM
- CSM
- Project Cost (Bid Tabs)

Bridge Management System
- Deterioration Rate
- Project Cost
- Preservation Rules
- Inspector Recommendations
- Forecasting Condition

Bridge Inspection and Data Management
- Safety and Evaluation
- NBI Data
- Pontis Data
- SIA
- MAP database
- Project Cost Database
Bridge Inspection

- Michigan Bridge Inspection System
  - Web based portal for inspection data input
  - Used by state and local agencies, including consultants hired to perform inspections
  - Secure network
Thank you for visiting Michigan!
Have a great meeting and stay in Detroit!