

Developing a Bridge Preservation Guide for Local Agencies – Michigan's Transportation Asset Management Council

October 12, 2010 – Detroit



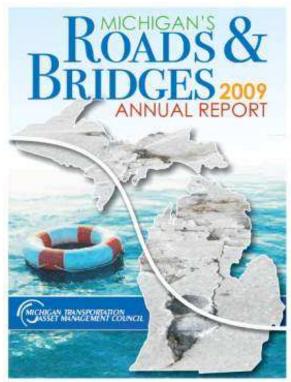
Presentation Outline

- TAMC Strategic Initiative on Bridges
- MDOT Local Agency Bridge Program
- Local Bridge Asset Management Guide

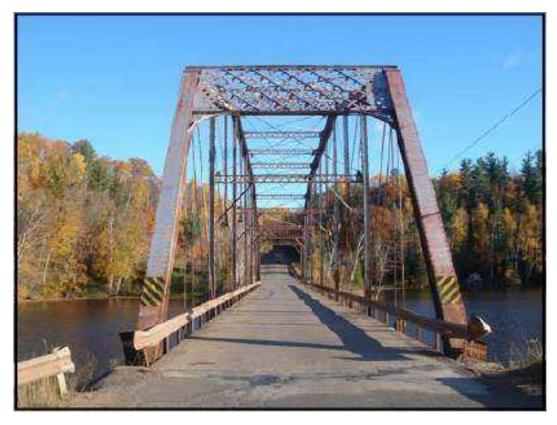


TAMC Strategic Plan Mission Statement:

- "Support Excellence in Managing Michigan's Transportation Assets by:
- -Advising the Legislature and the State Transportation Commission
- -Promoting Asset Management Principles
- -Providing tools and practices for road agencies"







TAMC Website: www.michigan.gov/tamc



TAMC Strategic Initiative on Bridges:

"Develop and implement a plan to promote and support bridge asset management practices on Michigan bridges, and integrate this plan with pavement asset management approaches."

To that end, TAMC:

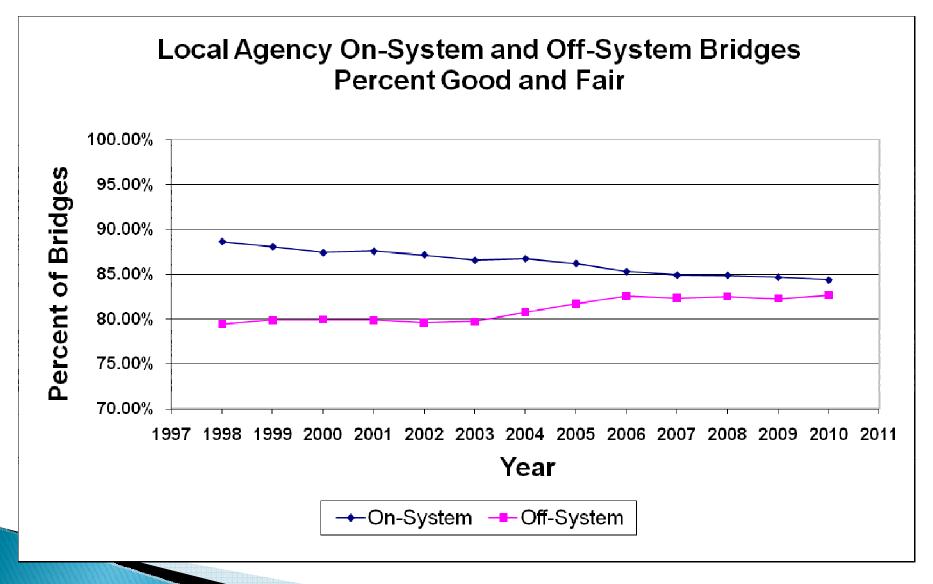
- -Established a Bridge Asset Management Committee -June 2009
- -Approved a Work Plan for Bridge Asset Management
- -Aim is to promote and support Bridge Asset Management Practices in Michigan



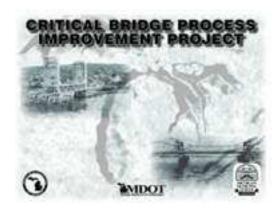
Bridge Asset Management Work Plan

- -Review of current practices in Michigan
- -Input from Federal Highway Administration
- -Informal scan of best practices around the country
- -Analyze and develop policy/best practice guide
- -Survey done with local agencies in January of 2010 -results will be incorporated in Guide









MDOT Local Agency Bridge Program:

A program to perform preventive maintenance and rehabilitation work, or to replace bridges on the local agency system of Michigan.

Partners:

County Road Association of Michigan, CRAM Michigan Municipal League, MML Michigan Department of Transportation, MDOT



MDOT Local Agency Bridge Program, cont.: Working Groups:

> Local Bridge Advisory Board, LBAB Region Bridge Councils, RBCs MDOT's Local Bridge Unit

Annual Budget of Approximately \$42 million \$26 million –State Funds \$16 million off system



Local Bridge Advisory Board

6 Voting Members, 2 Non-Voting Members

- 3 County Members nominated by CRAM
- 3 City / Village Members nominated by MML

2 MDOT Members – non voting

- Regional Bridge Councils / Program
 - 7 MDOT Regions

4 Voting Members, 1 Non-Voting Members

- 2 County Members nominated by CRAM
- 2 City/Village Members nominated by MML
- 1 MDOT Member non voting



Local Agency Funding of Preventative Maintenance by FHWA

Local Bridge Advisory Board has allowed Preventive Maintenance for three years. Currently, the program uses state funds for PM.

On going discussions with FHWA on determining an acceptable systematic approach to allow federal funds to be used.



Local Bridge Asset Management Guide <u>Purpose</u>

- Assistance in understanding bridge condition and bridge maintenance
- Guidance to decision makers and county bridge or highway engineers in the planning, developing, programming and implementing of effective and efficient capital programs and maintenance actions to preserve the bridges under their jurisdiction



Local Bridge Asset Management Guide

1.0 Introduction

2.0 Bridge Asset Management in Michigan

3.0 MDOT Local Agency Programs

4.0 Bridge Condition Assessment

5.0 Developing an Optimum Bridge Preservation Strategy

Bridge Asset Management Guide for Local Agency Bridges in Michigan

30% Submission - Sept. 20, 2010



Local Bridge Asset Management Guide <u>1.0 Introduction</u>

Two column format

Links

1.0 References 1.0Introduction 11 Format MDOT Asset Management Guide for Local Agencies in Michigan This Bridge Asset Management Guide for Local Agency Bridges http://maigiweb6.magi.state.mi.m/mi in Michigan is presented in two-column format. The left column Connecil/AssertManagementPlane.acm contains the Guide's text. Applicable references and other supporting material are contained in the right column with links FHWA Bridge Asset Management to the source documents. http://www.fines.dot.gov/bridge/manas sement index cfm 1.2 Purpose AASHTO Transportation Asset The MDOT's Bridge Amet Management Guide for Local Management Guide Agency Bridges in Michigan is intended to provide: http://www.fime.dot.gov/crt/lidecvcle/s Assistance in understanding bridge condition and bridge wet cfm maintenance, and Guidance to decision makers and county bridge or highway AASHTO Guidelines for Bridge enstineers in the planning, developing, programming, and Management Systems https://bookstore.transportation.org/ite implementing of effective and efficient capital programs. m details arm?id=343 and maintenance actions to preserve the bridges under their amis diction.



Local Bridge Asset Management Guide <u>2.0 Bridge Asset Management in Michigan</u> Developing a Systematic Plan -partnering with FHWA

Elements of a Systematic Plan Sample Bridge Asset Management Plan(s) Colac County (Australia) TAMC Sample Bridge Asset Management Plan Funding Bridge Preservation

Bridge Asset Management Plan



Adopted - Draft



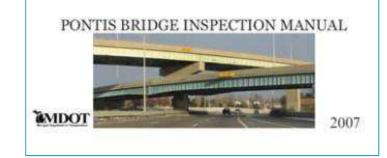
Local Bridge Asset Management Guide 3.0 MDOT Local Agency Program

- Overview
- Call for Applications (Bridge projects)
- Local Bridge Advisory Board
- Regional Bridge Council
- **Application Process**
- Develop Local Bridge Program Strategy



Local Bridge Asset Management Guide 4.0 Bridge Condition Assessment

PONTIS Inspections Inspection guide Structure Evaluation Risk







Local Bridge Asset Management Guide 5.0 Developing an Optimum Bridge Preservation Strategy

Alternate Types of Potential Fixes Replacement Structural Improvement Rehabilitation Preventative Maintenance CPM Routine Maintenance Cost Estimating Concept of 'Mix of Fixes' The right fix in the right place

at the right time.

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Questions?