

Michigan Bridge Conference
March 19, 2014
Bay City, MI

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Michigan Division

FHWA-MDOT Joint Program Evaluation

Workshop March 3, 2014

Bridges and Structures

Program Vision:

- keep Michigan's bridges at acceptable levels of functionality and reliability
- assure the cost effective expenditure of Federal funds
- making bridges and structures more durable and cost effective while requiring less maintenance

Goals:

- becoming fully compliant with the 23 Metrics
- Mitigating or reducing the number of bridges that are scour critical
- deploy technology such as accelerated bridge construction and innovative materials to best meet mobility demands
- reducing the number of bridges that are structurally deficient

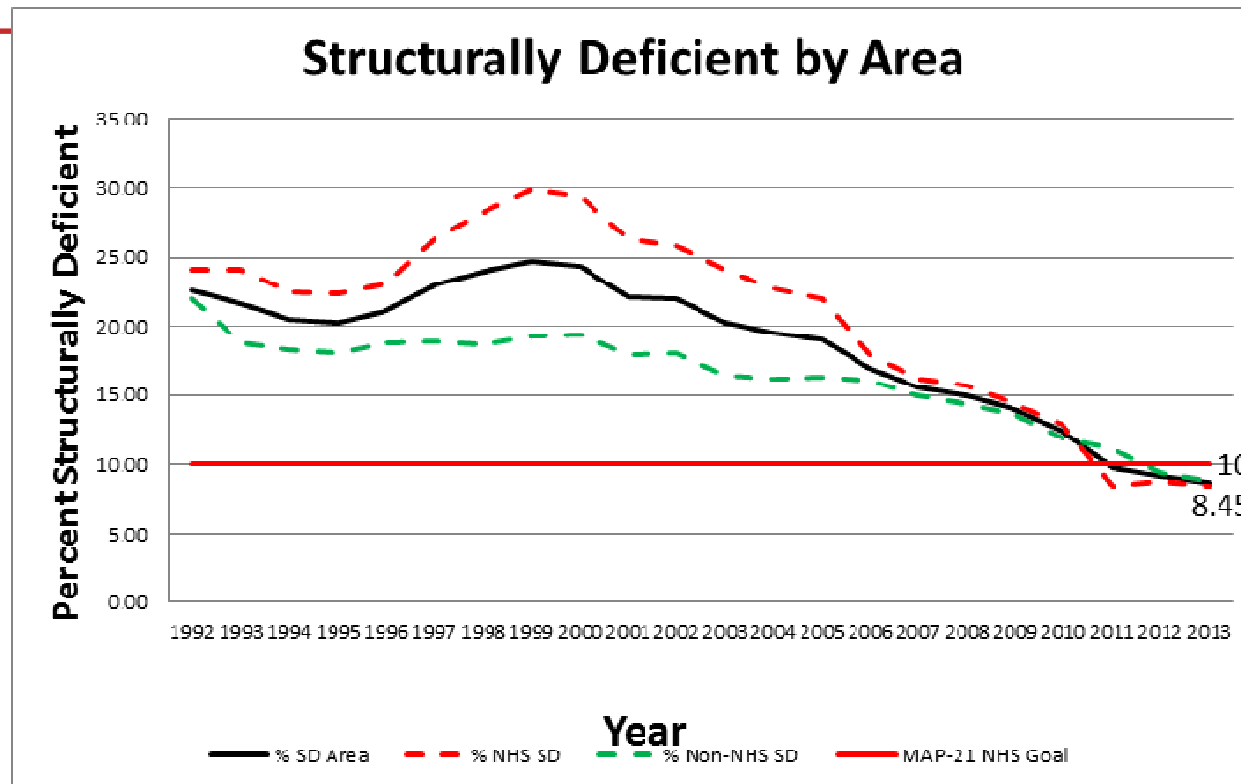


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Trends:

- The area of structurally deficient bridges has steadily decreased in the past ten years. (Michigan currently is in compliance with the MAP21 requirement to keep SD bridges on the NHS to less than 10 percent by deck area.)



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Risk Assessment:

- Compliance With NBIP Standards:
 - monitor quarterly reports on progress of the Plans of Corrective Action
 - conduct bridge inspection training courses
 - provide assistance to consultants on the use of the VIRTIS load rating program
 - monitor bridges with posting recommended but not implemented
- Scour Critical Bridges:
 - MDOT will develop a matrix of acceptable scour mitigation techniques
 - implement a program of monitoring, mitigating or replacing scour critical bridges
- Bridge and Structure Design QC/QA:
 - MDOT will document the process for in-house and consultant designs for MDOT projects.
 - MDOT and FHWA will conduct an assessment for Local Agency bridge projects

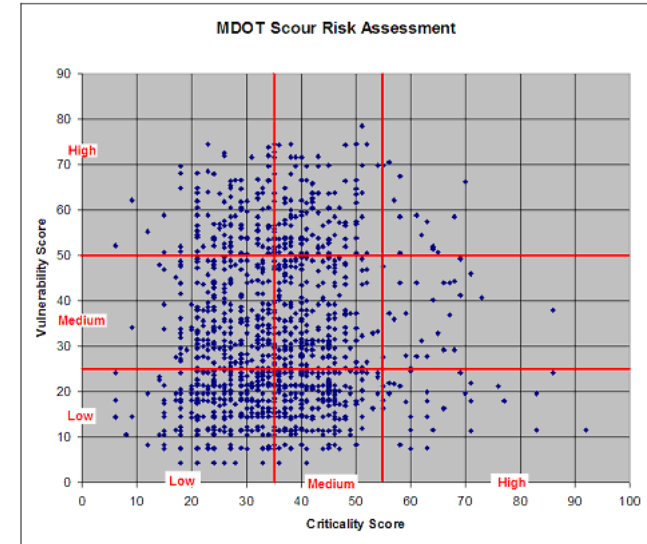
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Risk Assessment (cont.):

- **MDOT Bridge Design Process:**
 - MDOT will Develop a risk based early decision making process for MDOT bridge design projects



		Likelihood		
		Low(1)	Medium(2)	High(3)
Impact	High(3)	Medium(3)	High(6)	High(9)
	Medium(2)	Low(2)	Medium(4)	High(9)
	Low(1)	Low(1)	Low(2)	Medium(3)
		Low(1)	Medium(2)	High(3)

Figure 1 - Risk Severity Scoring Matrix

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MAP-21:

- Expires Sept. 30, 2014
- NPRM
 - National Tunnel Inspection Standards, 9/30/2013

NPRM Status

Performance Area/Element	NPRM Target
Metro and Statewide Planning	February 2014
Safety Measures	February 2014
Infrastructure Condition Measures	May 2014
Asset Management Plan	April 2014
System Performance+ Measures	May 2014
Public Transportation – ANPRM closed on 1/2/2014	

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- ***You can visit the FHWA Transportation Performance Management website at: <http://www.fhwa.dot.gov/tpm>***
- ***You can track Notice of Proposed Rule Makings at: <http://www.regulations.gov/#!/home;tab=search>***
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The End