

National Bridge Management, Inspection, and Preservation Conference

November 1, 2011

Kirk T. Steudle, P.E.

Director, Michigan Department of Transportation
President, American Association of State Highway Transportation Officials

BETTER

- New Materials
- Better Designs





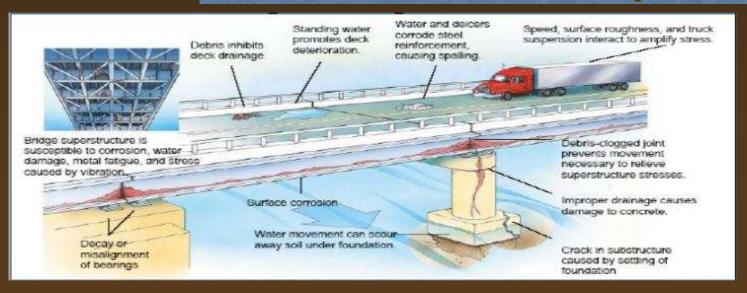


SHRP 2- Safety, Renewal, Reliability, Capacity



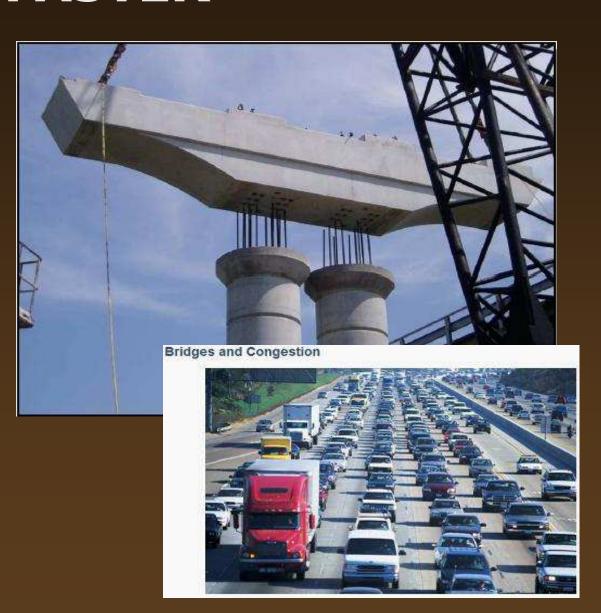
SHRP 2- Project (R19A)

Project Title: Bridges for Service Life beyond 100 Years: Innovative Systems, Subsystems, and Components

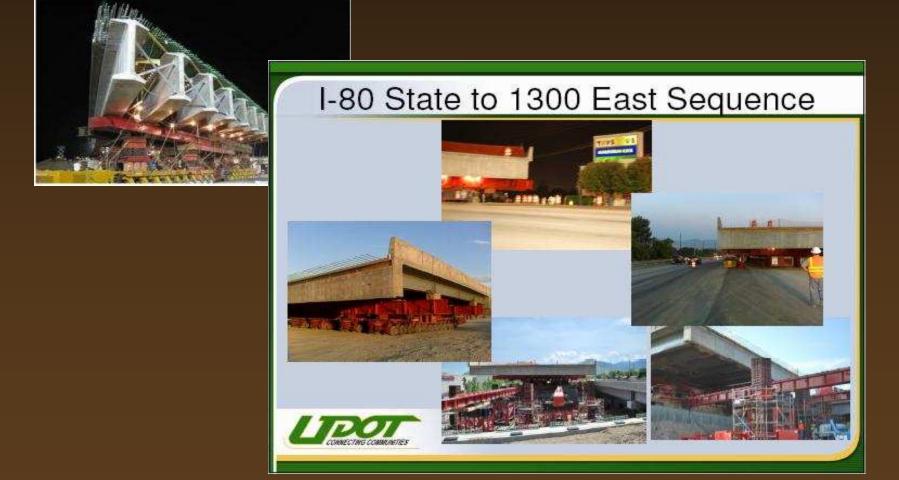


FASTER

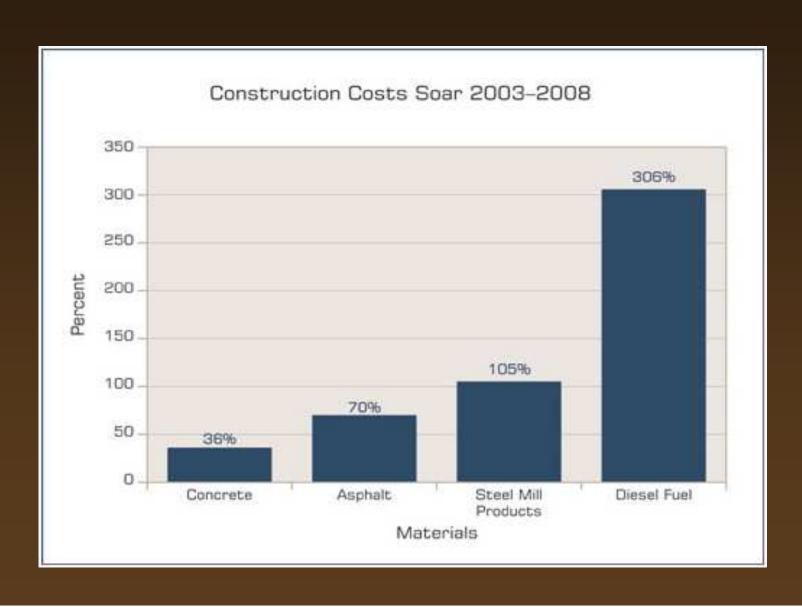
- Accelerated Bridge Construction (ABC)
- Prefabricated Bridge Element Systems (PBES)
- Every Day Counts



SPMTs Self Propelled Modular Transporter



CHEAPER?



Definition: Bridge Preservation

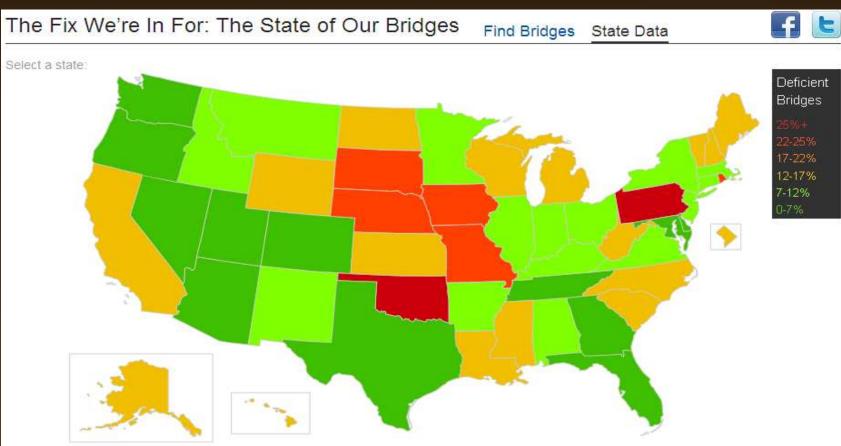
■ Bridge Preservation

 Actions or strategies that prevent, delay or reduce deterioration of bridges or bridge elements, restore the function of existing bridges, keep bridges in good condition and extend their useful life.
 Preservation actions may be preventive or condition-driven.

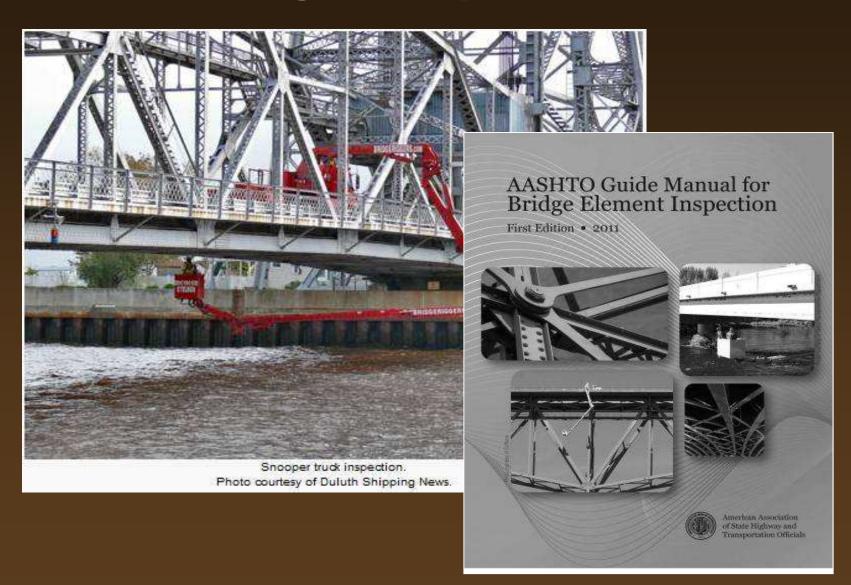


SAFER





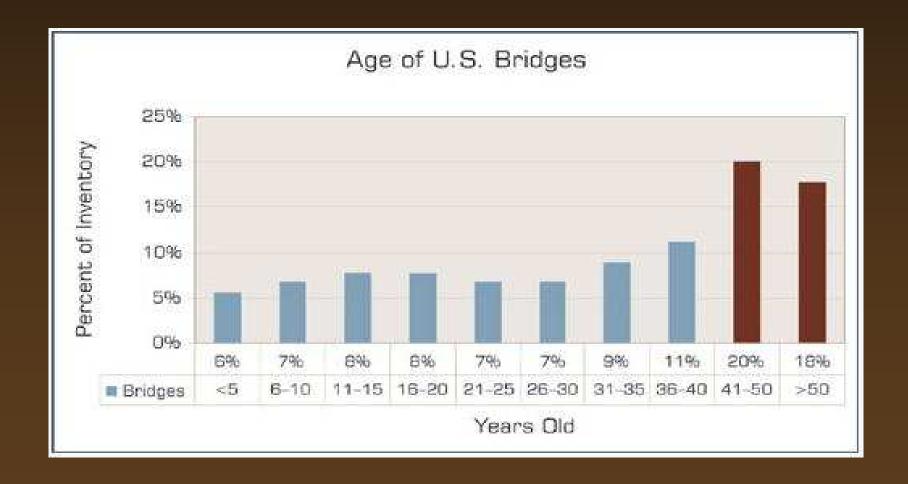
Bridge Inspection





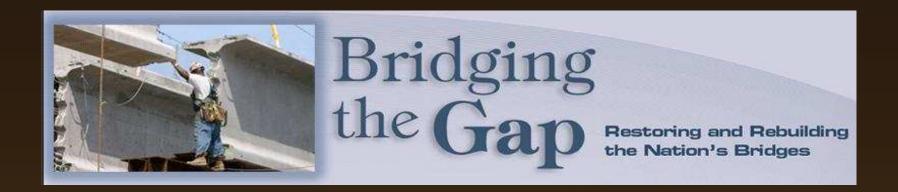
Bridging the Gap

Restoring and Rebuilding the Nation's Bridges





- Top Five Problems for Bridges
 - Age and Deterioration
 - Congestion
 - Soaring Construction Cost
 - Maintaining Bridge Safety
 - New Bridge Needs



- Top Five Solutions for Bridges
 - Investment
 - Research and Innovation
 - Systematic Maintenance
 - Public Awareness
 - Financial Options

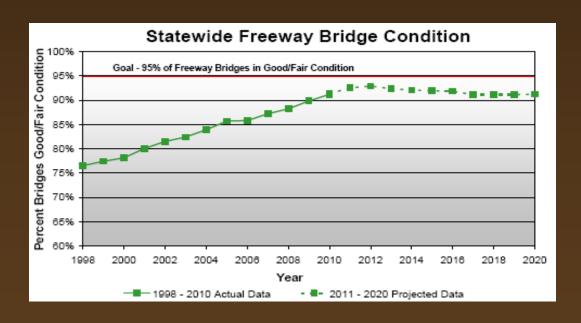
SMARTER

- Innovation
- Research
- Health Monitoring
- Asset and Performance Management
- Data Driven Decisions
- Partnerships

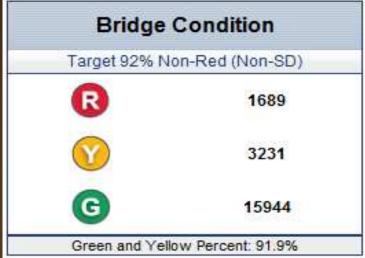


Performance Measures

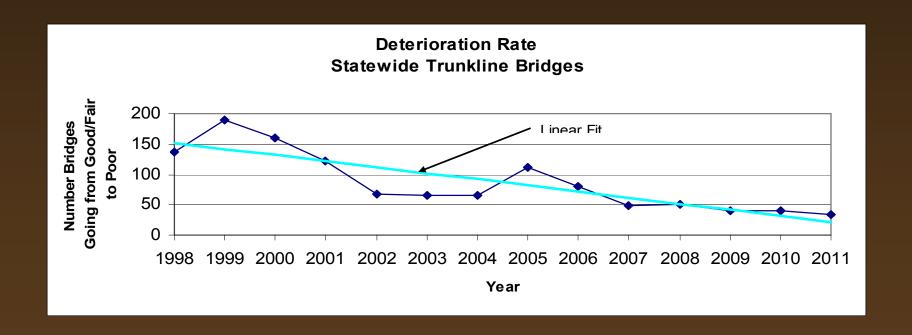
Michigan DOT Freeway Bridge Condition



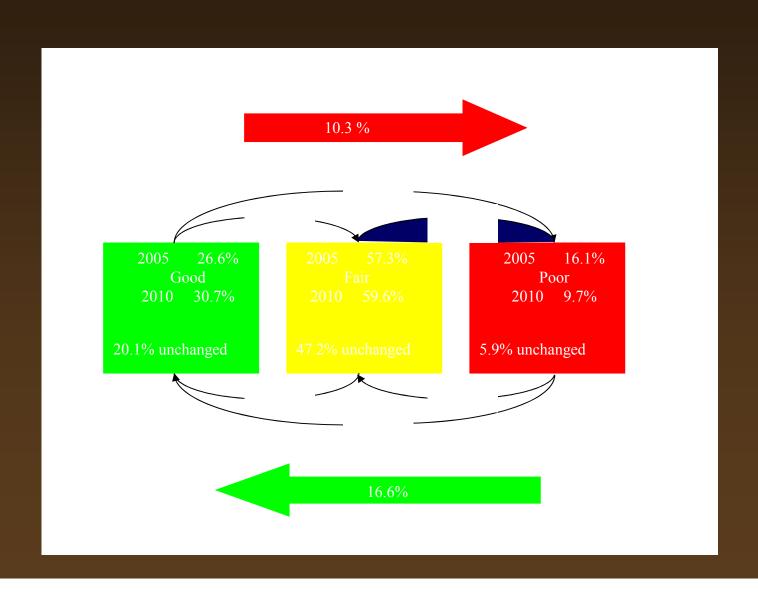
Virginia DOT Bridge Condition



Performance Measures For Preservation



Performance Measures For Preservation



AASHTO Bridge Preservation Partnerships











Thank You and have a Great Conference!

