



# FHWA Update

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Northeast Bridge Preservation Partnership
2015 Meeting
Kansas City, MO
September 3-October 2, 2015





#### Overview

- Transportation Performance Management
- National Tunnel Inspection Program
- National Bridge Inspection Program
- Bridge Management and Preservation
- SHRP2



# Transportation Performance Management (TPM)

- MAP-21 started the transition to a performance based highway program
- MAP-21 instituted performance and accountability requirements to prioritize NHPP projects
- TPM is a strategic approach that uses system information to make investment and policy decisions to achieve national performance goals

# **TPM** and Rulemakings

- FHWA is in the process of several rulemakings that will affect bridge and tunnel owners in regard to TPM
  - Pavement and Bridge Condition Performance
     Measures
  - Asset Management Plan



# Pavement and Bridge Conditions Performance Measures

- NPRM was issued Jan. 5, 2015 and comments were accepted through April 6, 2015
  - Proposed measures for NHS bridges in good and poor condition
  - Proposed reporting on targets every two years
  - Proposed minimum level of condition for NHS bridges (10% structurally deficient)
- FHWA is currently reviewing comments and developing the Final Rule



#### Asset Management Plan

- NPRM was issued Feb. 20, 2015 and comments were accepted through May 29, 2015
  - Proposed to establish asset management plan to improve and preserve the condition of NHS assets
  - Proposed minimum content of an asset management plan
  - Proposed minimum standards for bridge management systems
- FHWA is currently reviewing comments and developing the Final Rule

#### National Tunnel Inspection Program

- National Tunnel Inspection Standards (NTIS)
- National Tunnel Inventory (NTI)
- Specifications for the National Tunnel Inventory
- Tunnel Operations, Maintenance, Inspection and Evaluation (TOMIE) Manual
- Tunnel Safety Inspection Training (NHI)





- Ensure uniformity
- Establish qualifications of inspection team.
- Establish national certification for inspectors.
- Specify, in detail, the inspection method.
- Determine maximum inspection intervals.
- Establish rules to maintain and make available:
  - Written reports and notations of any action taken.
  - Current inventory data reflecting recent inspections.



# National Tunnel Inventory

- National Tunnel Inventory
  - Based on Specifications for the National Tunnel Inventory (SNTI)
  - 2 Part Implementation
    - Part 1 Preliminary NTI
    - Part 2 NTI





# National Tunnel Inventory

- SNTI
  - Introduction
  - Inventory Items
  - Elements
  - Index of Inventory Itemsand Elements
  - Tunnel Coding Example
  - References







July 2015 Publication No. FHWA-HIF-15-006

#### **TOMIE Manual**

**Tunnel Operations** Maintenance Inspection Evaluation



















al excavation method in relatively weak rock (center, 2 side [L & R] headings & bench)

# **Tunnel Safety Inspection Course**

- NHI 130110
- Comprehensive Training Course
- 5-days
- Pre-requisites Same as 130055
  - WBT 130101/A
  - ILT 130054



# **Tunnel Safety Inspection Course**

- First 8 Sessions
- Providing Funding for Attendees
  - 2 State DOT
  - 1 Division Office (DBE)
  - HQ, RC and FLH
- Open to Requests in 2016

# **Tunnel Safety Inspection Course**

- Sacramento, CA August 24 28, 2015
- Lakewood, CO September 14 18, 2015
- Vancouver, WA September 28 October 2, 2015
- Nashville, TN October 19 23, 2015
- Matteson, IL November 2 6, 2015
- Boston, MA November 16 20, 2015
- Atlanta, GA November 30 December 4, 2015
- Arlington, VA December 14 18, 2015



# Tunnel Inspection Refresher

- NHI Course Being Developed
  - 4 Hours of WBT
  - 2.5 Days of ILT
  - 19 Hours of FHWA Approved Training
- Availability in 2017

# Implementation Timeframe

- June 26, 2015 OMB Clearance
- July 14, 2015 NTIS Publication
  - Publication of TOMIE, SNTI, NHI Course, etc.
- August 13, 2015 Effective Date
- August December 2015 FHWA Sponsored Training Sessions
- December 11, 2015 Preliminary NTI Submittals Due

# Implementation Timeframe

- August 13, 2017 Qualified Program Manager
- August 13, 2017 Initial Inspection Completed
  - Requires a Qualified Team Leader
  - Tunnel-Specific Inspection Procedures
- March/April , 2018 NTI Submittals
- April 1, 2018 NTIP Oversight Begins





#### Website

 http://www.fhwa.dot.gov/bridge/ inspection/tunnel/



#### National Bridge Inspection Program

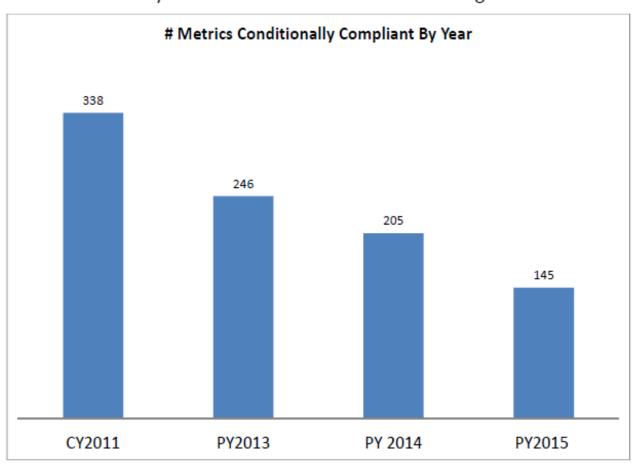
- National Bridge Inspection Standards (NBIS) NPRM
  - Scheduled (tentatively) for publication in early 2016
- Specifications for the National Bridge Inventory (Coding Guide)
  - Being updated to coincide with NBIS NPRM
- Risk-Based, Data-Driven Oversight (23 metrics)





#### 23 Metrics

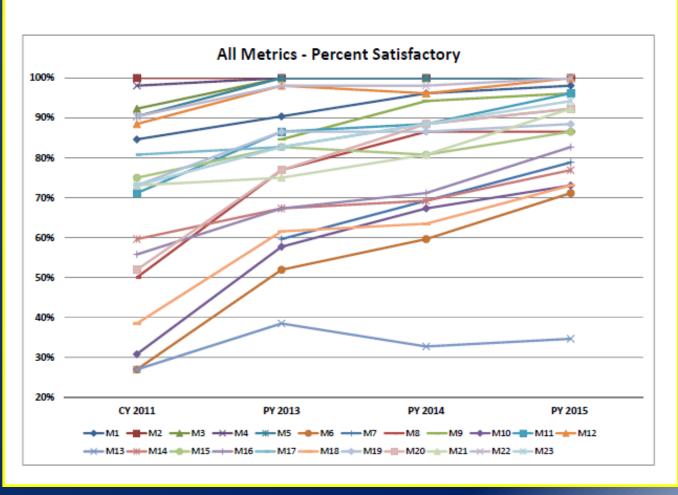
Preliminary Metric Results of PY 2015 NBIS Program Review





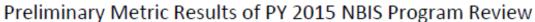
#### 23 Metrics

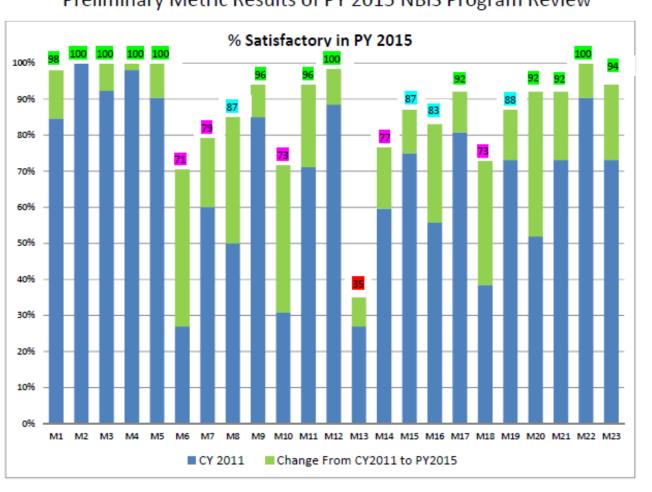
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#### Bridge Management and Preservation

- Developing several NHI training courses
  - Bridge Preservation WBT now available
    - 130106 A, B, and C
  - Bridge Management WBT now available
    - 130109 A & B
  - Bridge Maintenance Training and Reference
     Manual being updated for 2016
  - www.nhi.fhwa.dot.gov





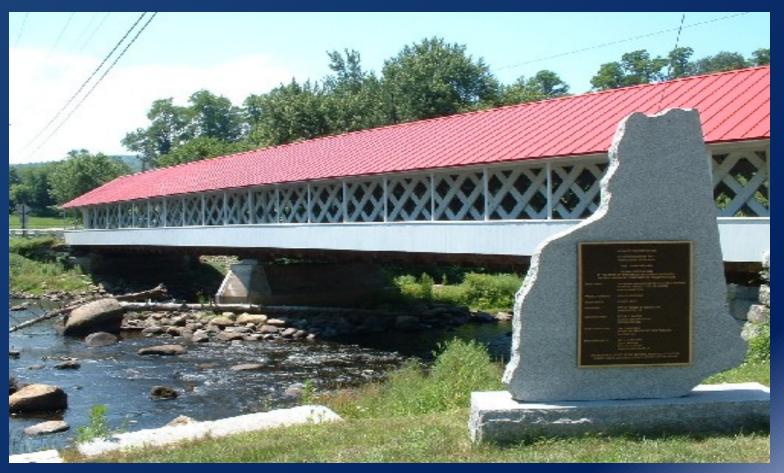
#### SHRP2

- Service Life Design for Bridges (R19A)
  - Goal: Provide longer service life by design through durable and state-of-the-art materials, construction techniques, and utilization of emerging technologies that are ideally suited for the bridge
  - Comprehensive reference manual
  - Lead adopters PA, OR, HI, IA, VA
  - www.fhwa.dot.gov/goshrp2/solutions/renewal/R19





# Questions



**Ashuelot Covered Bridge**