



# SHRP2 Implementation Update to the AASHTO Subcommittee on Traffic Engineering

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U.S. Department of Transportation  
Federal Highway Administration



TRANSPORTATION RESEARCH BOARD  
OF THE NATIONAL ACADEMIES



# What we will cover

- Update on SHRP2 Implementation Assistance Program
- Reliability Update
- Round 4 Products
- Safety Data Base
- Questions



# SHRP2 Moving Forward

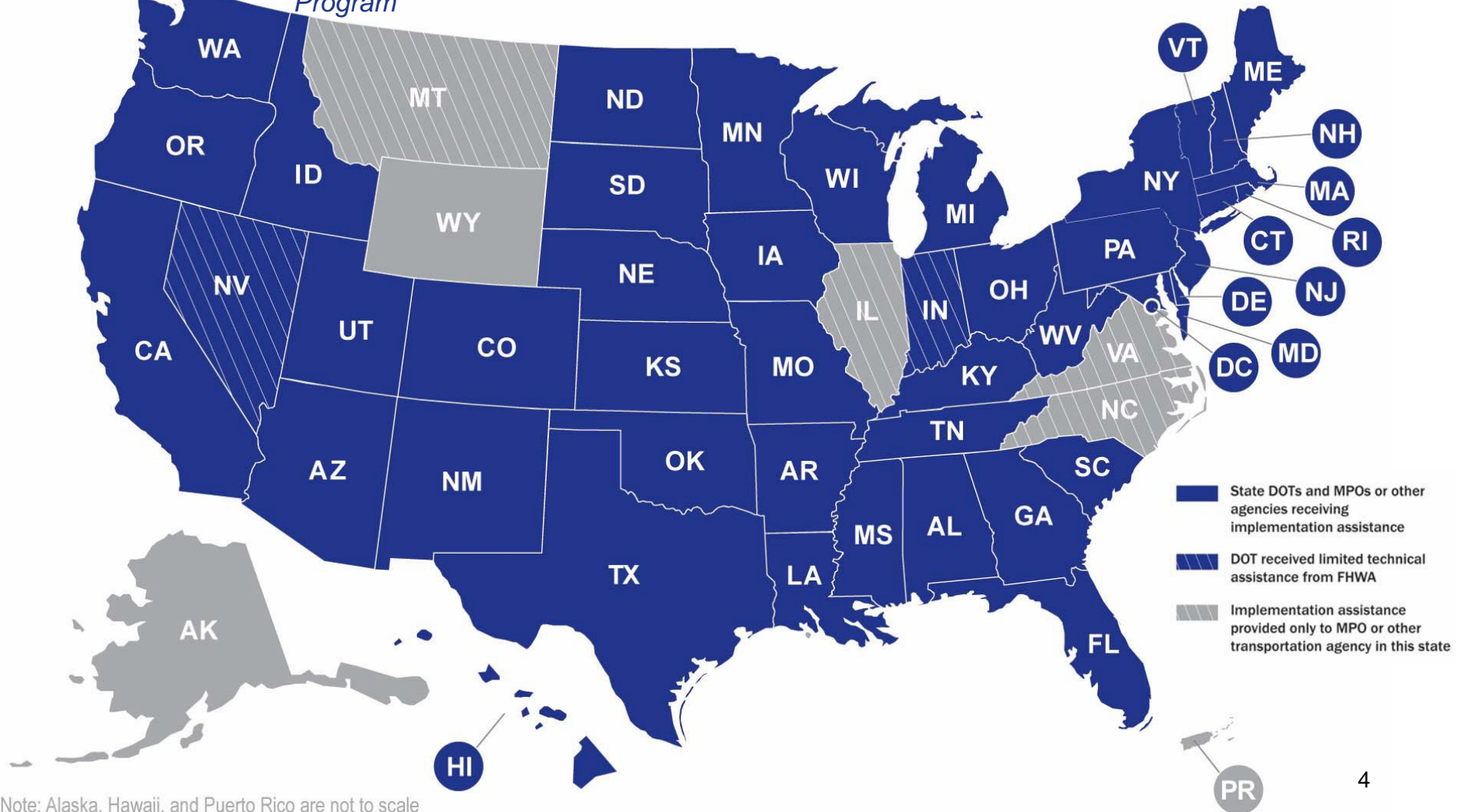
## Implementation Assistance Program





# Transportation Agencies Begin Implementing SHRP2

*Rounds 1,2, and 3 Products – FHWA/AASHTO Implementation Assistance Program*



Note: Alaska, Hawaii, and Puerto Rico are not to scale

# SHRP2 Implementation Assistance

- SHRP2 IAP projects underway in **48 states**; more coming in Round 4
- With **Traffic Incident Management Responder Training Program**, all **50 states and DC** are **participating** in some way
- **65 recipients received 146 awards** (representing work on 180 projects)
- Round 4 opened on May 30 and will close on **June 27, 2014**, offering 12 products

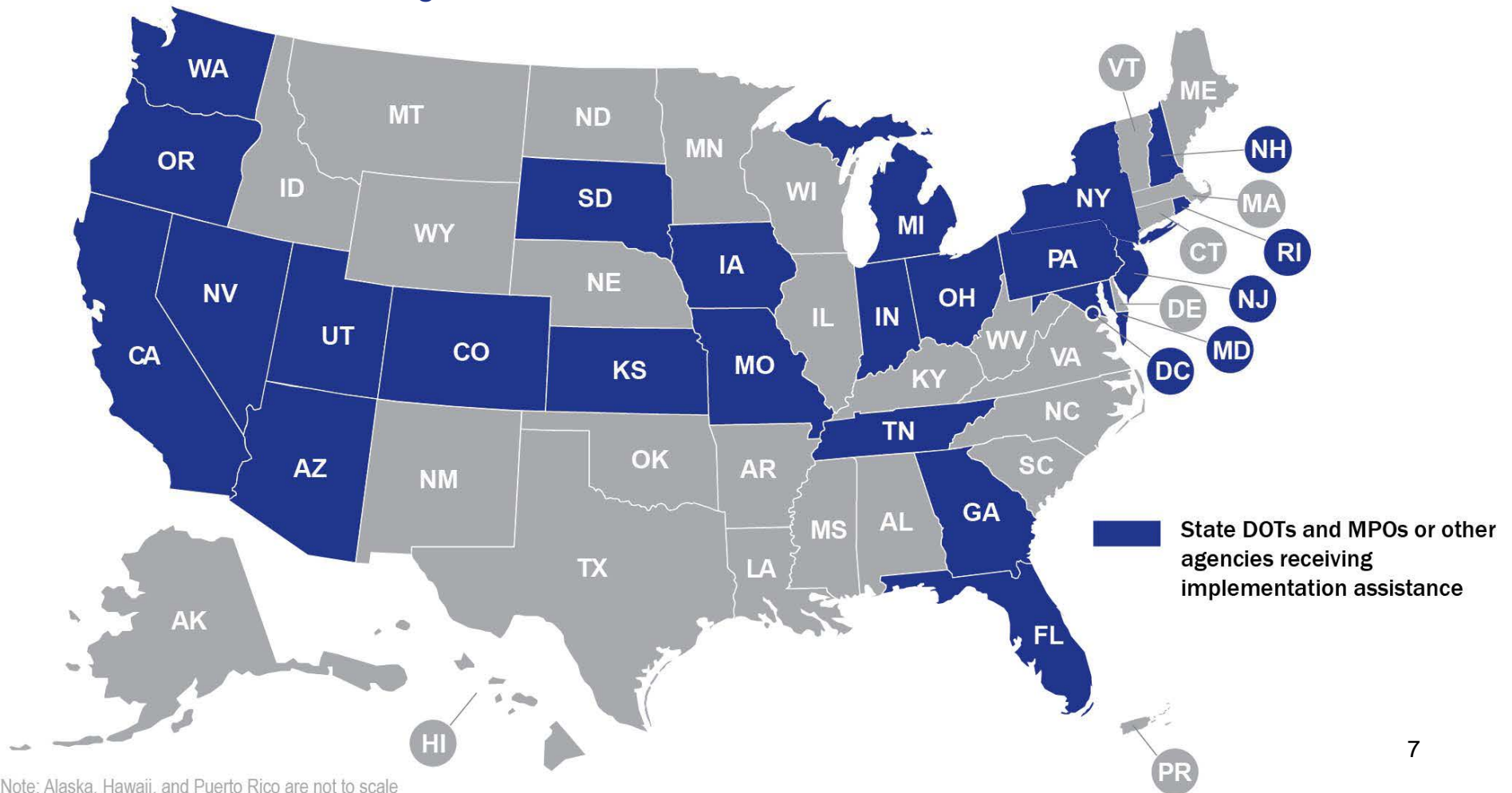
# SHRP2 Moving Forward

## SHRP2 Implementation Assistance Program - Reliability



# Reliability Focus Area

*Transportation Agencies Begin Implementing  
SHRP2 Rounds 1,2, and 3 Products – FHWA/AASHTO Implementation  
Assistance Program*



# SHRP2 Reliability Implementation Activities



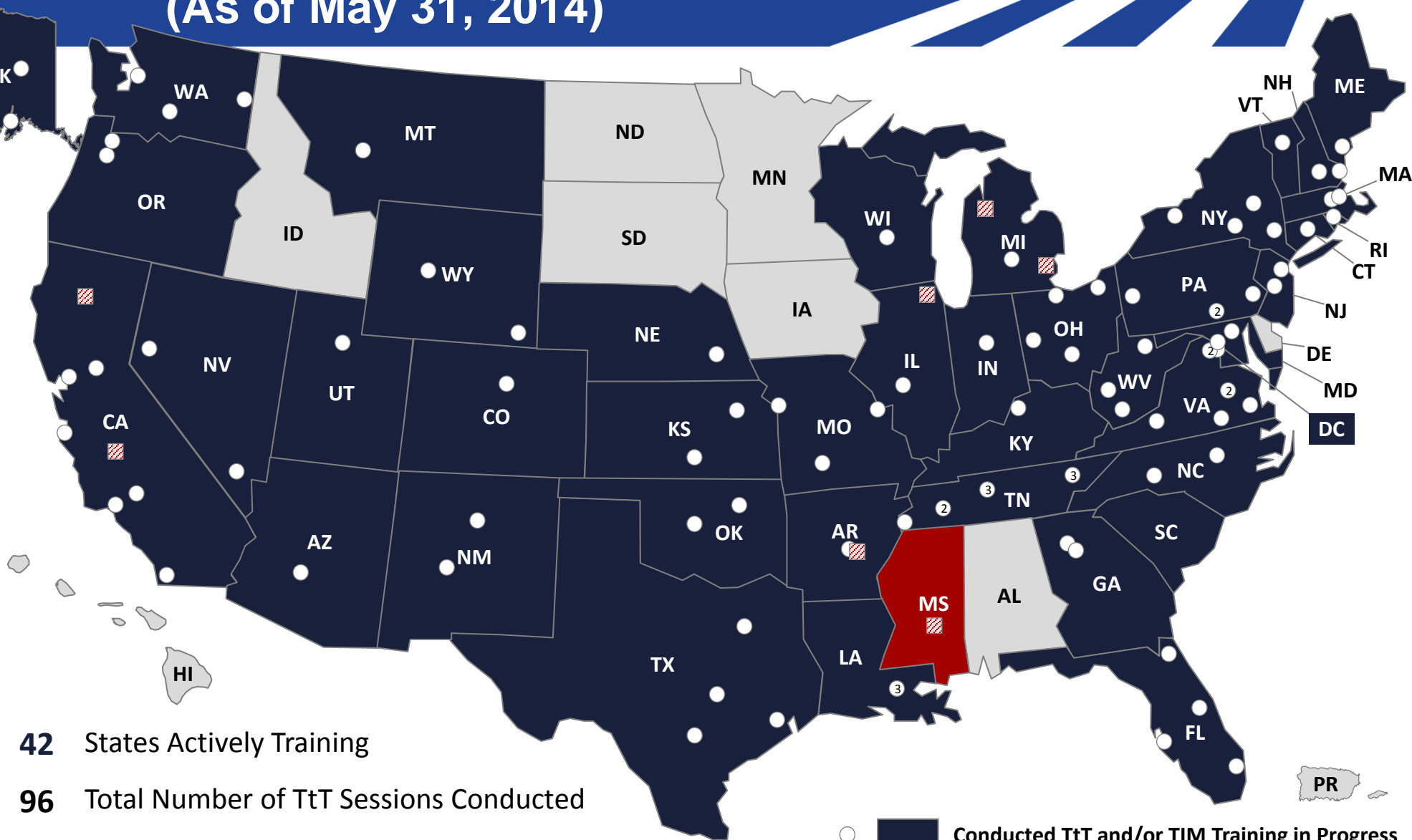
- **Organizing for Reliability Tools (L01/06)**
  - Suite of products to assist States/MPOs to **evaluate and improve their capabilities** for effective and sustained systems management & operations programs
  - 27 lead adopters working through four phases:
    - Outreach, Self-Assessment Workshop, Development and Implementation of Implementation Plans
- **Enhanced Knowledge Transfer System (L17)** (Briefing to come)
- **National Traffic Incident Management Responder Training (L12)**



# National Traffic Incident Management Responder Training (L12)

- Product is **multi-disciplinary, customizable training** program for traffic incident responders
- Built on the **train-the-trainer** concept
- Key is having **all responder agencies trained together**
- Training Options:
  - 1 ½ day Classroom training for responders, including tabletop exercises and field work
  - 4-hour short course
  - 10, 1-hour modules delivered through e-training (now in pilot stage)
  - Post course evaluation tool - Under development
- Part of FHWA **Every Day Counts 2** initiative

# National TIM Responder Training Program Implementation Progress (As of May 31, 2014)

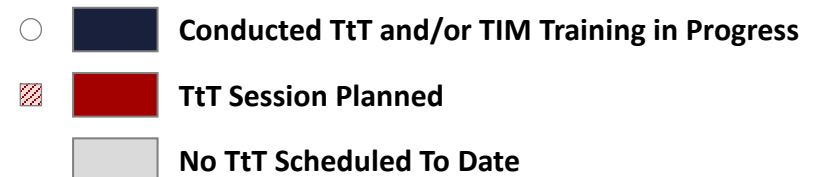


**42** States Actively Training

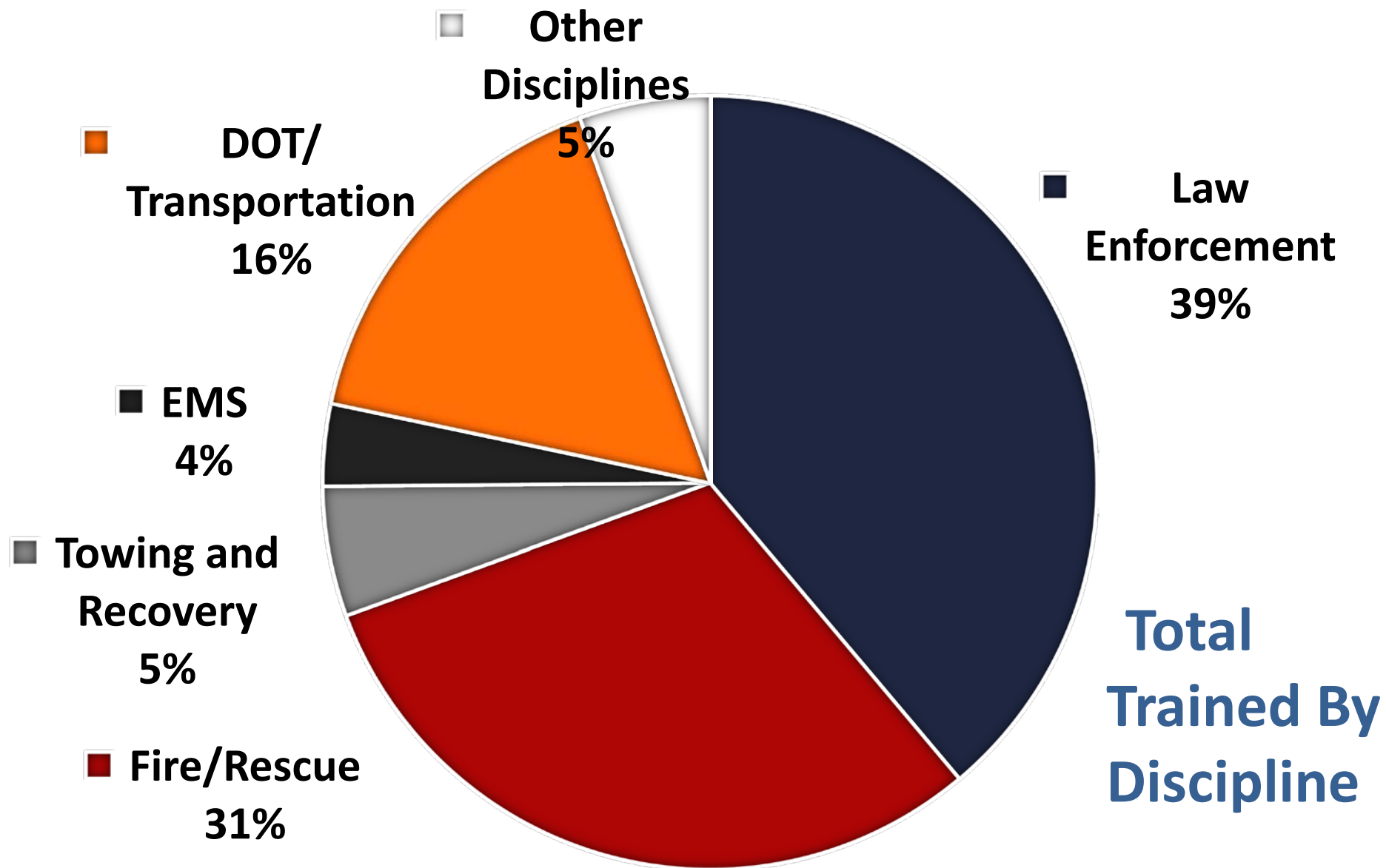
**96** Total Number of TtT Sessions Conducted

**1** New State has a TtT Session Scheduled

**46,911** Total Number Trained



# National TIM Responder Training Program Implementation Progress



# SHRP2 Moving Forward

## SHRP2 Implementation Assistance Program – Round 4





# Implementation Assistance For Round 4 Products



**Economic Analysis Tools (C03/C11)**  
**Advanced Travel Analysis Tools (C10/C04/C05/C16)**



**Nondestructive Testing for Concrete Bridge Decks (R06A )**  
**Technologies to Enhance Quality Control on Asphalt Pavements (R06C)**  
**Tools to Improve PCC Pavement Smoothness During Construction (R06E)**  
**Nondestructive Testing for Tunnel Linings (R06G)**  
**Managing Risk in Rapid Renewal Projects (R09)**  
**Project Management Strategies for Complex Projects (R10)**  
**Service Life Design for Bridges (R19A)**  
**New Composite Pavement Systems (R21)**



**Reliability Data and Analysis Tools - Bundle (L02/05/07/08/C11)**



**Concept to Countermeasure – Research to Deployment Using the SHRP2**  
**Safety Databases**

# Reliability Data and Analysis Tools

**Suite of products that support data collection, analysis, and decision-making for improving operations and travel-times:**

- Guidebook for a **monitoring program**
- **Tools to measure and identify the effects of recurring congestion and nonrecurring events.**
- A spreadsheet tool to **analyze the effects of design features.**
- Tools to incorporate congestion factors into the **Highway Capacity Manual methods.**
- Guides to incorporate reliability performance measures into the **Transportation Planning and Programming Process.**
- Spreadsheet-based tool to enable **analysis of travel-time reliability, intermodal connectivity, market access, and an accounting framework.**

# Safety Implementation Process



Phase I - Proof of Concept with a sample reduced data set – January – September 2015 timetable

Decision



Phase II full data set and in-depth analysis & countermeasure identification

Decision



Possible Phase III to adopt or implement countermeasure nationally

# SHRP2 on the Web

- **goSHRP2 website**  
[www.fhwa.dot.gov/goSHRP2](http://www.fhwa.dot.gov/goSHRP2)
  - Product details
  - Information about SHRP2 implementation phase
- **SHRP2 @TRB**  
[www.TRB.org/SHRP2](http://www.TRB.org/SHRP2)
  - Information about research phase
- **SHRP2 @AASHTO**  
<http://SHRP2.transportation.org>
  - Implementation information for AASHTO members





# Questions?

## Stay informed and stay tuned!

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For more information: [www.SHRP2/transportation.org](http://www.SHRP2/transportation.org) or

**GoSHRP2** ([www.fhwa.dot.gov/goSHRP2](http://www.fhwa.dot.gov/goSHRP2))