RELIABILITY IMPLEMENTATION ACTIVITIES – Status Report

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SHRP2 Implementation

• What are we after?
  – Routine use of SHRP2 products
  – Carried out by users - State DOTs, MPOs, resource agencies, other stakeholders
  – Taking high-priority products to the tipping point of national adoption
    • Implementation assistance
    • Outreach/marketing
    • National leadership
Current SHRP2 Reliability Implementation Priorities

- L12/32A/32B/32C – Training for Traffic Incident Responders and Managers
- L01/06/31/34 – Organizing for Reliability Tools
- L17/13A/36 – Knowledge Transfer System/Reliability Data Archive/Regional Operations Forums
Coordinated Training for Traffic Incident Management Responders and Managers (L12/32)

- Product is multi-disciplinary training for traffic incident first responders
- Four elements
  - Classroom training for responders – Developed and being delivered
  - Train the Trainer workshop – Developed and being delivered
  - e-training course – Under development
  - Post course evaluation tool - Under development
- Part of FHWA Every Day Counts 2 initiative
Coordinated Training for Traffic Incident Management Responders and Managers (L12/32)

- High level support secured from the law enforcement and fire communities
  - Ongoing outreach and collaboration

- Overall goals by end of 2014
  - Conduct at least 1 train-the-trainer workshop in each State, and in most of the 75 largest metropolitan areas
  - Train 50,000 responders

- Status
  - 26 States reached through 47 Sessions
  - 18,000+ Responders Trained
National TIM Responder Training Implementation Progress

26 States
47 Sessions
18,000 + Responders Trained
Organizing for Reliability Tools (L01/06/31/34)

- Suite of products to assist States/MPOs in evaluating and improving their capabilities for effective and sustained systems management & operations programs
  - CMM workshop and follow-up to assist agencies in better organizing to focus on transportation system management and operations
  - Reliability business process guidance
  - Outreach material
Reliability Implementation Priorities

Organizing for Reliability Tools – CMM Workshop and Technical Assistance

• 27 States/MPOs selected for implementation assistance in Spring 2013

• Goals for selected DOTs/MPOs:
  - **Dec 2013** - Local champion team established & committed to applying SHRP2 Reliability products (nearly complete)
  - **Summer 2014** - CMM Assessment workshop conducted (being scheduled now)
  - **Dec 2014** - Action plan developed and vetted through their leadership (1 to 2 months after workshop)
  - **Dec 2016** - 2-year implementation of their action plans completed

• FHWA HQ, Division, Resource Center staff engaged
Organizing for Reliability Tools – all efforts underway

- Business Process Guidance
  - Developing capability frameworks for non-recurring congestion

- Outreach material
  - Presentation materials
  - Prep Kit
  - Tool Kit

- Updates to CMM web-based tool
Framework for Improving Travel Time Reliability (L17)

- Primary product was a Knowledge Transfer System (KTS)
- Implementation plan developed, approved by AASHTO and FHWA
- Current implementation efforts – all recently underway
  - Develop enhanced version of the KTS
  - Develop overall framework for deploying SHRP2 Reliability products
  - Primer on incorporating reliability into the congestion management process
- Implementation of KTS will eventually include:
  - L13A Reliability Data Archive
  - L36 Regional Operations Forums
Interim KTS Website

- Focuses on SHRP2 research products
  - Abstracts and synthesis
- Includes other reliability-related knowledge resources
  - Gap reports
  - Business case resources
- Provides links to key external operations website links (FHWA, ITS JPO, ITSA, etc.)
- Customized search by topic
- Additional features:
  - Calendar/FAQs/Glossary/News and Recent Publications
Enhanced KTS Website

• Expands Technology Transfer function:
  – Establishes a forum to share experiences, best practices and lessons learned (peer exchange)
  – Broadens focus of database to TSM&O resources
  – Continues assessment and update of knowledge gaps
  – Enhanced marketing and outreach materials

• Additional features:
  – Subscription-based email newsletter, project profiles, current practices interchange and archive

• Staff/consultant support needed for updates, content development, management of peer interactions including social networks
Framework for Expediting Deployment

- Develop a framework for deploying SHRP2 Reliability products and other TSM&O tools to:
  - Facilitate and expedite deployment
  - Equip agencies to deploy multiple products and strategies to gain synergies and maximize benefit

- Capture the interrelation, value, and potential applications in the real world
  - Show how Reliability products can integrate with existing tools, methodologies, and products
  - Show how agencies can use the products to achieve their goals (Use Cases)
Regional Operations Forums

- Multi-state regional operations forums
  - 4-day training session for transportation agency staff
  - Transfer knowledge of Reliability products and other TSM&O resources, foster peer exchange
- Five Pilots:
  - Nashville, TN: held Sept 2013
  - Seattle, WA: Nov 2013
  - Phoenix, AZ: Jan 2014
  - Concord, NH: Apr/May 2014
  - Milwaukee, WI: Jun 2014
Future Reliability Implementation Priorities

• Reliability Data and Analysis Tools (L38 Bundle)
  - L02 Monitoring Programs for Reliability
  - L05 Planning/Programming for Reliability
  - L07 Reliability by Design
  - L08 Reliability and the Highway Capacity Manual
  - C11: Development of Improved Economic Analysis Tools

• L04 Incorporating Reliability into Operations and Planning Models

• L14 Communicating Travel Time Reliability

• L36 Regional Operations Forums
• L12 / 32A / 32B / 32C - $8.05 million approved
• L01 / 06 / 31 / 34 - $6.6 million approved
• L17 / 13A - $2.5 million approved
• L36 - $1.0 million approved (IPW tentatively planned for April 2014)
• L38 Bundle - $6 million approved (IPW tentatively planned for February 2014)
• L14 - $500k approved (implementation discussion planned for December 2013)
• L04 - $500k approved (future implementation discussion planned)
Questions?

SHRP2 Implementation web site
http://www.fhwa.dot.gov/GoSHRP2/