



Performance Specifications for Rapid Renewal (R07)

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U.S. Department of Transportation
Federal Highway Administration



TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES



Agenda



Photos courtesy: Gallivan Consulting Inc., David Peshkin

Preliminary Agenda

SHRP2 Performance Specifications for Rapid Renewal (R07)

Peer-to-Peer Technical Exchange

September 20-21, 2016

Sheraton Burlington Hotel & Conference Center

870 Williston Road

South Burlington, VT 05403

AASHTO is sponsoring a 1 ½ day Peer-to-Peer Technical Exchange regarding the development and advancement of **Performance Specifications for Rapid Renewal (R07)**. Highlighted areas include the development of Performance Specification Programs, Performance Specification experiences with Asphalt and Concrete Pavements, Cold-Planing, Cold-in-Place Recycling, and Full Depth Reclamation projects with Emulsion or Cement Additives.

[Register Here to Participate](#)

Tuesday, September 20, 2016

Time	Topic	Speakers
		Jennifer Balis, Federal Highway Administration (FHWA)

Focus Areas



Safety: fostering safer driving through analysis of driver, roadway and vehicle factors in crashes, near crashes, and ordinary driving.



Renewal: rapid maintenance and repair of the deteriorating infrastructure using already-available resources, innovations and technologies.



Capacity: planning and designing a highway system that offers minimum disruption and meets the environmental, and economic needs of the community.



Reliability: reducing congestion and creating more predictable travel times through better operations.

SHRP2 at a Glance

- **SHRP2 Solutions** – 63 products
- **Solution Development** – processes, software, testing procedures, and specifications
- **Field Testing** – refined in the field
- **Implementation** – More than 430 transportation projects; adopt as standard practice
- **SHRP2 Education Connection** – connecting next-generation professionals with next-generation innovations

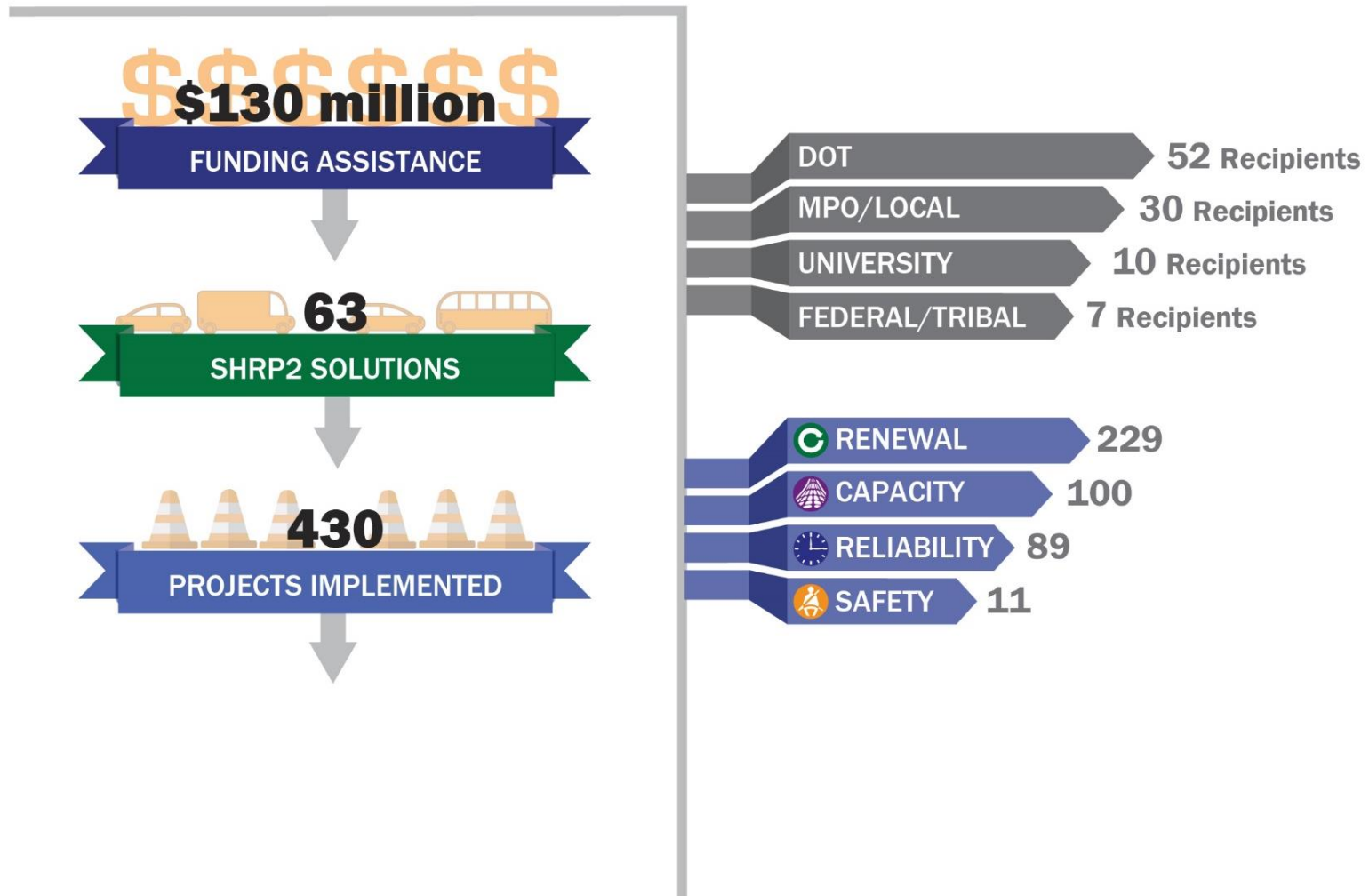


SHRP2 Implementation Assistance Program

- **Round 7:**
 - 13 products or bundles of products
 - 1 capacity; 3 reliability; 9 renewal products
- **42 recipients** just announced in June 2016
 - **37 state DOTs**
 - **4 MPOs**
 - **1 Federal Lands Highway**
- **79 projects** in **37 states**

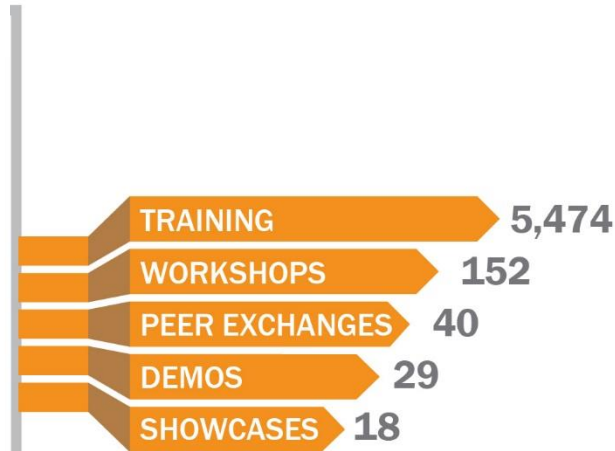


SHRP2 Implementation: Moving Us Forward



SHRP2 Implementation: Moving Us Forward

As of November 2015:



- Save lives, money, and time**
- Bridges being built more quickly
 - Smoother traffic flows and less congestion
 - Reduced construction costs
 - Safer roadways
 - Smarter environmental reviews

Performance Specifications for Rapid Renewal (R07)

Challenge

- Conventional approaches to highway construction use prescriptive requirements that place the burden on owners to design, specify, and control the work.
- These requirements often hinder the innovation needed to deliver projects faster or find methods that minimize disruption.

Solution

- Performance specifications that emphasize desired results and encourage innovation.



Round 2 and 5 Recipients



Use of Intelligent Compaction as a basis for performance specification

- 1) Performance specifications for asphalt pavement and concrete bridge deck.
- 2) Performance Based Asphalt Mix Designs



Performance specifications for asphalt pavement, grading and geotechnical activities, and potentially for pile driving



Performance specifications for reclaimed pavement and cement-stabilized base



Performance specifications for all elements of highway construction and maintenance as part of its P3 program



**THANK YOU
FOR ATTENDING!!**