



SHRP2 Implementation Advisory
Committee - June 25, 2014

SHRP2 Renewal Implementation Update

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Federal Highway Administration



TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES



What we will cover

- Renewal Program Update
- Renewal Implementation Projects
- Implementation Assistance Program Round 4 Products



SHRP2 Moving Forward

Renewal Focus Area Update

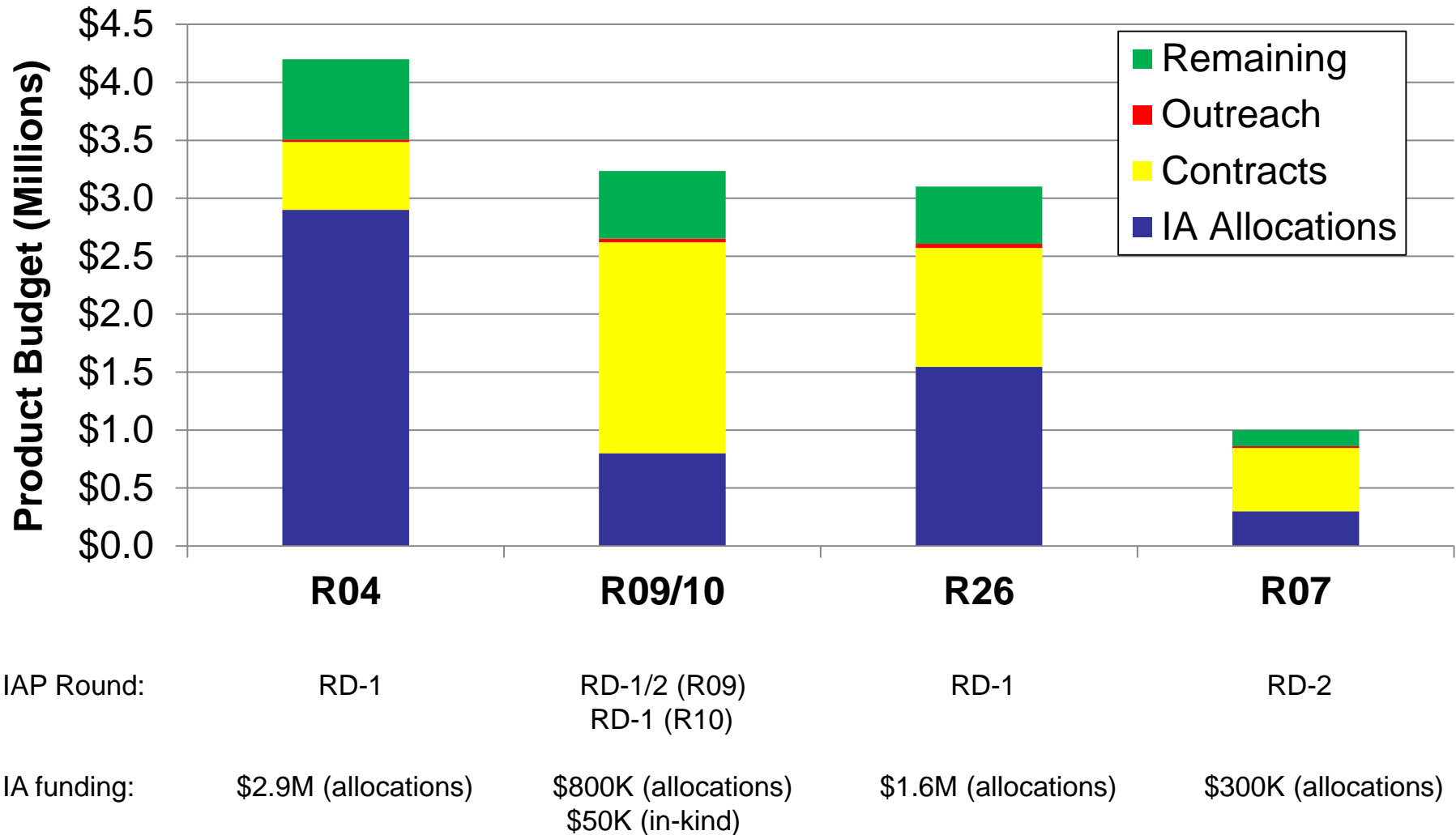


Renewal Focus Area Snapshot

- 25 products in 5 key categories (Pavements, Structures, Project Delivery, Non Destructive Testing, Utilities/Railroads)
- \$40.2 million budget for implementation to be used over a 4-6 year time period
- Completed implementation plans for 19 products
- 10 Renewal products featured in Round 1-3 of Implementation Assistance
- 6 additional products will be featured in Round 4
- All 25 products are being advanced at this time

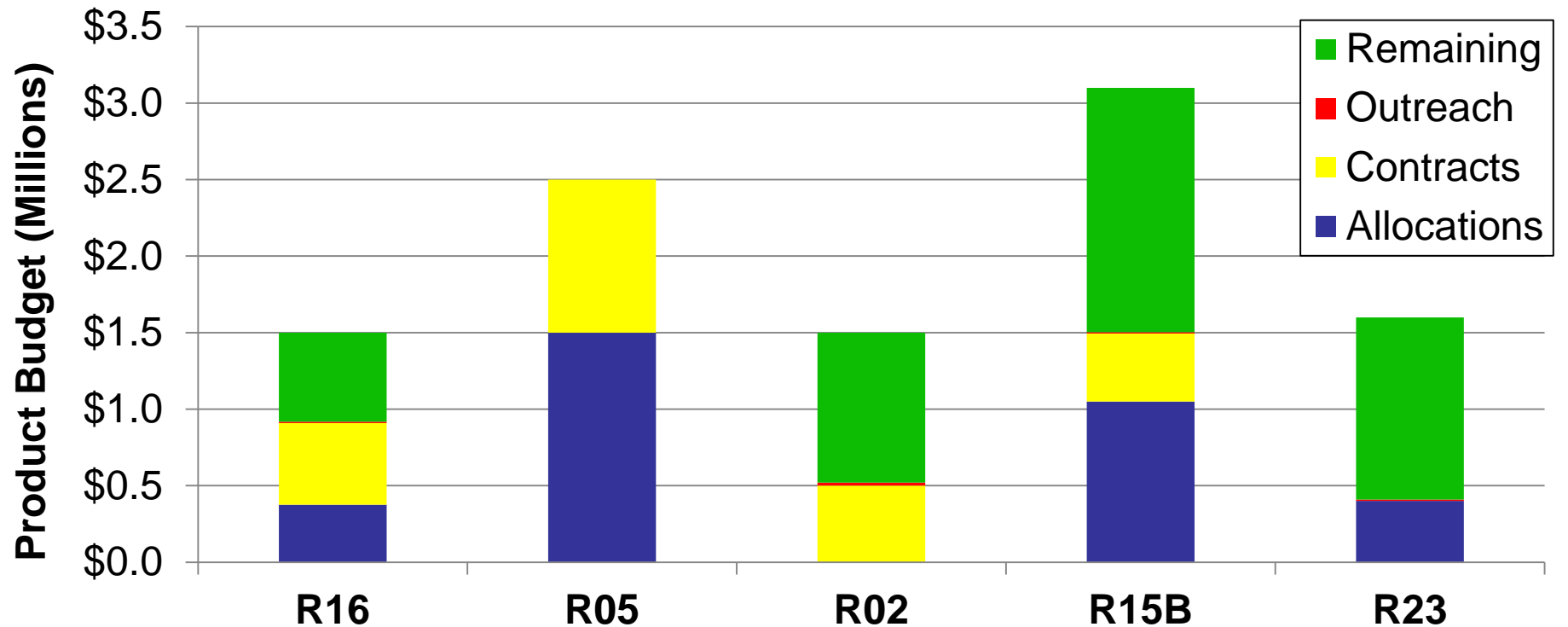
Product Funding

Products Featured in IAP Rounds 1-3



Product Funding - Continued

Products Featured in IAP Rounds 1-3



IAP Round:	RD-2	RD-3	RD-3	RD-3	RD-3
IA Funding:	\$375K (allocations)	\$1.5M (allocations)	\$500K (in-kind)	\$ 1.1M (allocations)	\$400K (allocations) \$100K (in-kind)

SHRP2 Moving Forward

Renewal Implementation Projects



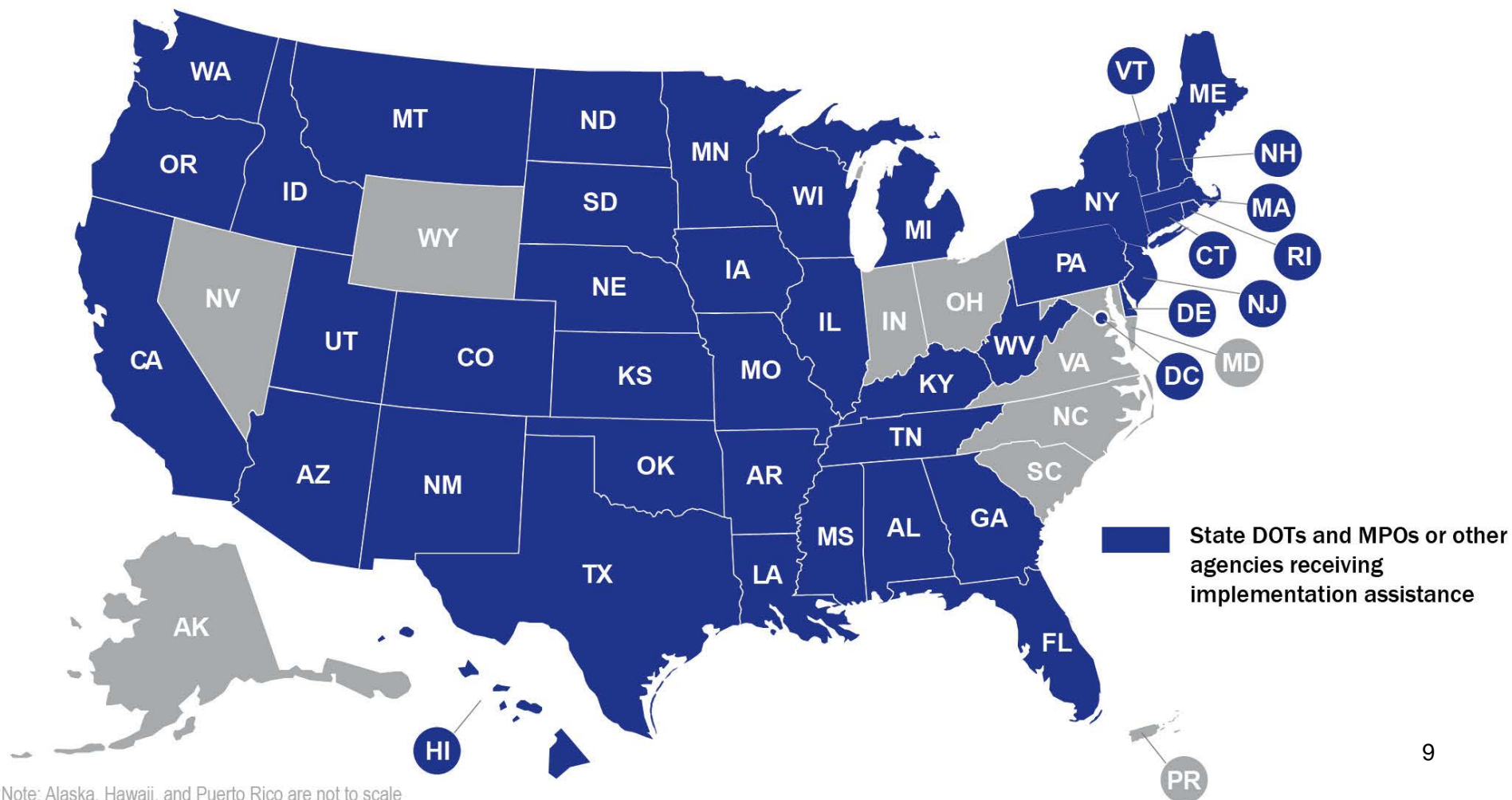
Renewal Projects Underway

- 41 states engaged
- Implementing 10 Renewal products
 - First round - **4 renewal products**
 - Second round - **3 renewal products**
 - Third round - **4 renewal products**
- 116 Renewal Projects are in process



Renewal Focus Area

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



Innovative Bridge Designs – R04

Activities:

- 7 states (including the Gila River Indian Community) receiving IAP funds
- Most of the construction will be complete 2014
- Regular teleconferences to share information
- Showcases scheduled in Missouri and Arizona with two others in planning
- Four peer exchanges planned for 2015
- PBES workshop at 2015 TRB meeting

Innovative Bridge Designs

Project Details for a few of the R04 Projects:

Rhode Island – East Providence – Interstate On-Ramp

- Current bridge in need of replacement
- Closure must be less than 30 days
- Total cost \$1.9 million

Wisconsin – Road Over I-39/90

- ABC being applied to pier construction
- Total cost \$6.9 million
- Precast columns and caps on cast-in-place footings

Kentucky – Knox County, Stewarts Creek Bridge

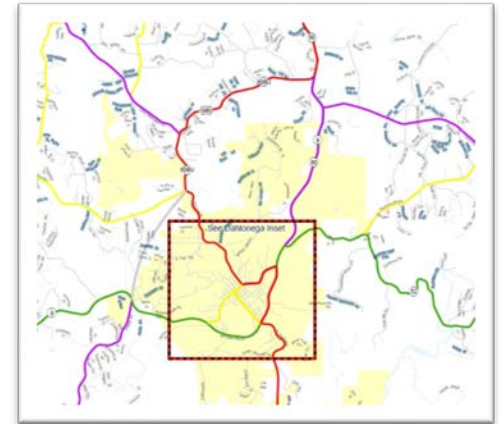
- 3 weeks max closure; project duration 38 days
- A+B bidding;
- Total cost \$700,000
- two bridges; galvanized and painted steel superstructure



Rhode Island

Pavement Preservation on High-Volume Roadways – R26

- 13 states and DC engaged
- Quarterly conference calls
- Have created a 13 state users group that routinely meets
- Workshop in **Alabama** at NCAT
- **Rhode Island** showcase, July
- Marketing materials and pocket guide under development




Georgia - SR 60
Mill and Thin
HMA Overlay
Test Site
Location

Precast Concrete Pavement Technology – R05



- Five lead adopters
- Pilot workshops in **Hawaii, Nevada**
- Presentations to **Delaware DOT**, Northeast Pavement Preservation Partnership
- TRB Committee Webinars in planning stage
- Technical assistance being provided to additional states

Managing Risk in Rapid Renewal Projects – R09



- This product exemplifies full use of the various levels of IAP engagement
- Two pilots in **Florida** and **Georgia** were completed Round 1
- 4 Lead Adopters in Round 2, including Florida again
- Example of some of the Lead Adopters include:
 - 1. Florida DOT:** Train the facilitator session; Florida to acquire risk analysis/management software, update policies and procedures; conduct workshops
 - 2. Oregon DOT:** Workshop and technical assistance; I-5 South Jefferson interchange with US20
- Round 4 will feature User Incentives

Innovative Management Strategies for Complex Projects – R10

- Five Lead Adopters in Round 1. Some examples include:
 - **Georgia DOT**: Northwest Corridor project; 30 miles of managed lanes on I-75 and I-575; **largest project in state history**; demonstration workshop held and report developed
 - **Michigan DOT**: I-94 and I-75 projects; workshop, project management plan developed for I-94; additional workshops to assess incorporating into standard MDOT project development and management practices

“Being a part of this SHRP 2 Implementation Project will strengthen our ability to successfully manage complex projects like the Northwest Corridor in the future. Based on our managed lane system plan, we are sure to need the best tools available. “

Keith Golden, Georgia DOT Commissioner

More Renewal Products



Additional Products Offered in Rounds 1 – 3

- GeoTechTools (R02)**
- Performance Specifications (R07)**
- Identification of Utility Conflicts and Solutions (R15B)**
- Railroad-DOT Mitigation Strategies (R16)**
- Pavement Renewal Solutions (R23)**

SHRP2 Moving Forward

Renewal in Round 4



Implementation Assistance For Round 4 Products



- **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)**

Round 4 Renewal Opportunities

<u>SHRP2 Solution</u>	<u>Proof of Concept</u>	<u>Lead Adopter</u>	<u>User Incentive</u>
Technologies to Enhance Quality Control on Asphalt Pavements (R06C)	2 for GPR, (≤\$50K) + in-kind	5 for Pave-IR, (≤\$60K in-kind)	
Tools to Improve PCC Pavement Smoothness During Construction (R06E)		5-10 (≤\$60K in-kind)	
New Composite Pavement Systems (R21)		5 (\$300K)	
Nondestructive Testing for Concrete Bridge Decks (R06A)		8 (≤\$100K)	
Nondestructive Testing for Tunnel Linings (R06G)	2 (≤\$250K)		
Service Life Design for Bridges (R19A)		4 (≤\$150K)	
Managing Risk in Rapid Renewal Projects (R09)			8 (≤\$30K)
Project Management Strategies for Complex Projects (R10)			8 (≤\$30K)

Questions?

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