

SHRP2 Capacity Focus Area Overview

AASHTO Standing Committee on Planning

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U.S. Department of Transportation
Federal Highway Administration



TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES

Overview of the Implementation Assistance Program (IAP)

Proof of Concept Pilot:

- Funds for piloting products to evaluate readiness for implementation.
- Contractor support to collect data and evaluate the application.

Lead Adopter Incentive:

- Funds for early adopters to offset implementation cost and mitigate risks.
- Recipients required to provide specific deliverables designed to further refine the product, and possibly “champion” the product to other States and localities.

User Incentive:

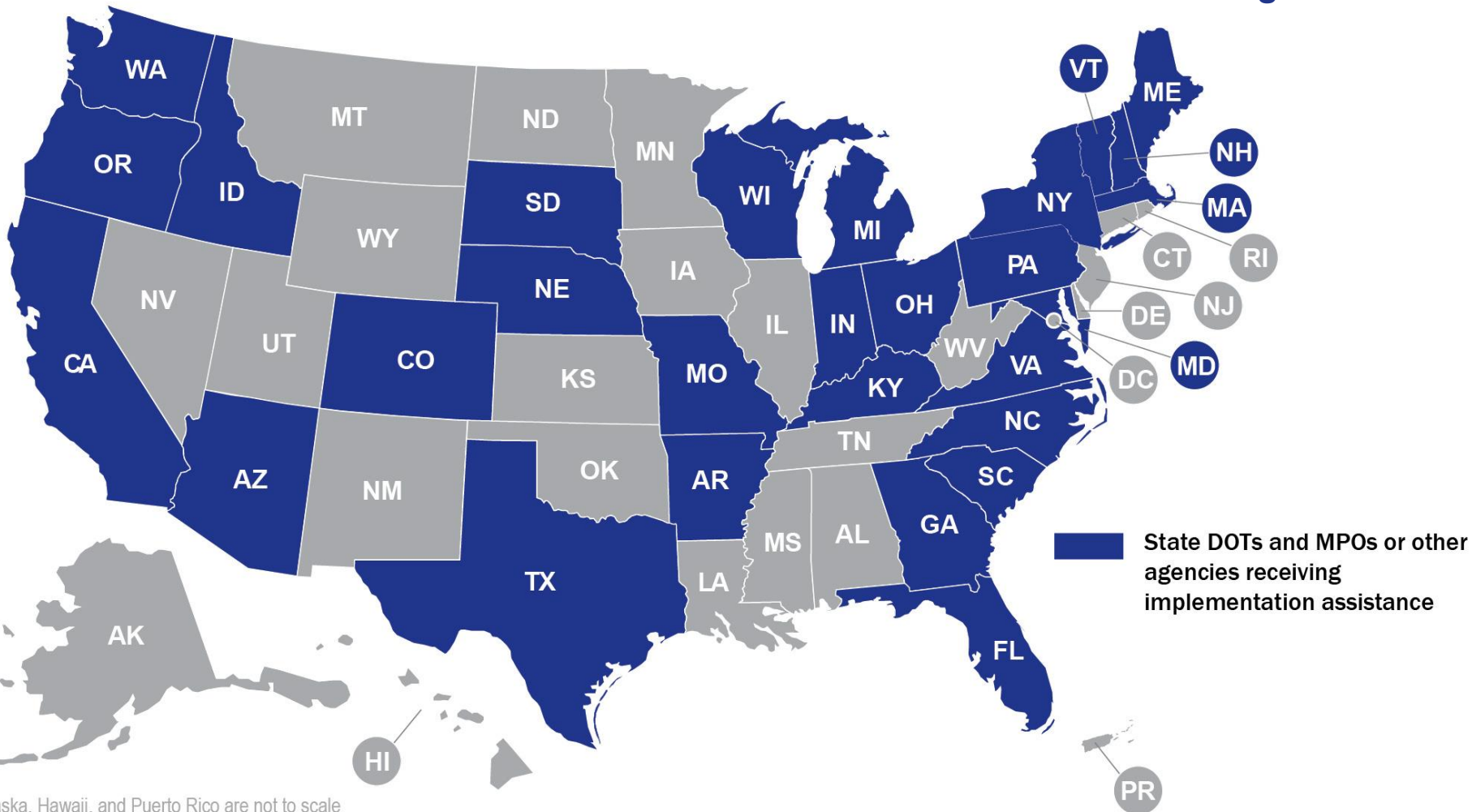
- Funds for implementation support activities after early adopter use.
- Used to conduct internal assessments, build capacity, implement system process changes, organize peer exchanges, or offset other implementation costs.

Capacity Implementation: Activities and Success To-Date

- Implementing EcoLogical (C06)- 7 DOTs and 7 MPOs
- Expediting Project Delivery (C19)- 10 DOTs and 2 MPOs
- Freight Demand Modeling and Data Improvement (C20)-
5 DOTs and 6 MPOs
- **Overall Capacity Focus Area:**
 - 8 Product Bundles containing 16 Products
- **Progress To Date:**
 - 6 IPWs complete covering 14 Products/Bundles

Capacity Focus Area

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

Implementation Assistance for Round 4 - Available Now



Economic Analysis Tools bundle – C03/11

Advanced Travel Analysis Tools bundle – C10/04/05/16

Pavements:

New Composite Pavement Systems – R21

Rapid Technologies to Enhance Quality Control on Asphalt Pavements – R06C

Tools to Improve PCC Pavement Smoothness During Construction – R06E

Structures:

Nondestructive Testing for Concrete Bridge Decks – R06A

Nondestructive Testing for Tunnel Linings – R06G

Service Life Design for Bridges – R19A

Project Delivery:

Managing Risk in Rapid Renewal Projects – R09

Innovative Strategies for Managing Complex Projects – R10

Reliability Data and Analysis Tools bundle – L02/05/07/08 (C11)

Concept to Countermeasure –

Research to Deployment Using the SHRP2 Safety Databases



Advanced Travel Analysis Tools (C10, C04, C05, and C16)

- **Implementation Assistance Program: Round 4**
(Available now through June 27, 2014)
- **Funding Available for Eligible Recipients in Round 4**
 - \$2.8 million for C10 Proof of Concept Pilots
 - \$300K for C04/C05 Lead Adopters
 - \$300K for C16 User Incentives
- **Approved Implementation Plan with AASHTO**
 - Rebranding of C16 web-tool, along with web-hosting options

Economic Analysis Tools (C03/C11)

- **Implementation Assistance Program: Round 4**
(Available now through June 27, 2014)
- **Funding Available for Eligible Recipients in Round 4**
 - \$750K for Lead Adopters
 - \$250K for User Incentives
 - Possible web hosting from AASHTO for C03/C11 web tool
- **Implementation Plan Developed- late June 2014 approval**

Planning for More Products

Product	IPW	IAP round
PlanWorks (C01)	Fall 2014	Round 5
Capacity Process Bundle (C02/08/09/12/15)	Spring 2014	Round 5
Service Limit State Design for Bridges (R19B)	Fall 2014	Round 5
3D Utility Location Data Repository (R01A)	Winter 2014	Rounds 5 & 6
Utility Locating Technologies/Innovation in Locating Deep Utilities (R01B/C)	Winter 2014	Round 6
Techniques to Fingerprint Construction Materials (R06B)	Fall 2014	Round 6
Advanced Methods to Identifying Pavement Delamination (R06D)	Fall 2014	Round 6
WISE: Workzone Impact Estimation Software (R11)	Summer 2014	Round 6
Nondestructive Testing for Concrete Bridge Decks (R06A)	Winter 2013	Round 6

Round 5 – January 2015

Round 6 – June 2015

Process Tools Bundle (C02, C08, C09, C12 and C15)

- **Implementation Assistance Program: Round 5 (January 2015)**
 - \$3.7 million available for Implementation
 - Implementation Planning Workshop held June 3-4, 2014

- **Process Tools Bundle Products include:**

C02: Performance Measures for Highway Capacity Decision-Making

C08: Transportation Visioning for Communities

C09: Incorporating Greenhouse Gas Emissions in the Collaborative Decision-Making

Process

C12: Guide to Public-Private Partnerships and Non-Standard Procurements

C15: Guide to Better Integrating Freight Transport into Highway Capacity Planning and

What is the Process Tools Bundle?

- A related group of SHRP2 products that address elements of transportation planning.
- All require collaboration with entities outside the primary planning agency for success.
- All are relatively new planning topics or topics that are changing fast.
- Each product is organized by the decision points outlined in the Decision Guide within PlanWorks

PlanWorks: Better Planning, Better Projects (C01)

- **Implementation Assistance Program: Round 5 (January 2015)***
 - \$3.05 million available for Implementation
 - Tentative Implementation Planning Workshop (late Summer/early Fall 2014)
 - www.transportationforcommunities.org
- **FHWA web version under development**
 - Established an Expert Task Group (ETG) in April 2014
 - Initial design work in-progress
 - Scheduled development underway to be integrated with implementation planning
 - Pre-implementation planning ur

PlanWorks Expert Task Group

Established: April 2014

- Idaho Transportation Department
- Arkansas State Highway and Transportation Department
- Florida Department of Transportation
- Massachusetts Department of Transportation
- Maryland State Highway Administration
- Michigan Department of Transportation
- San Diego Association of Governments
- Puget Sound Regional Council
- Knoxville Regional Transportation Planning Organization
- North Central Texas Council of Governments
- U.S. Environmental Protection Agency
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- Federal Transit Administration
- Association of Metropolitan Planning Organizations
- National Association of Regional Councils
- AASHTO
- TRB

Geospatial, EcoLogical Tools and Data (C40)

- **Implementation Assistance Program Round: Undecided**
 - No specific budget assigned to this tool
- **FHWA/AASHTO considering options moving forward**
- **Outreach Underway**
 - Federal Interagency Presentations (Recent with U.S. EPA)
 - GIS-T Conference- May 2014 Presentation
 - Discussions at AASHTO SCOP and SCOE
 - Discussions with AMPO
- **Testing of product by stakeholders; provide feedback to**

FHWA

Questions and Contact Information

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www.fhwa.dot.gov/goSHRP2