



SHRP2 Program Overview January 18, 2018

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What is SHRP2?



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



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



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



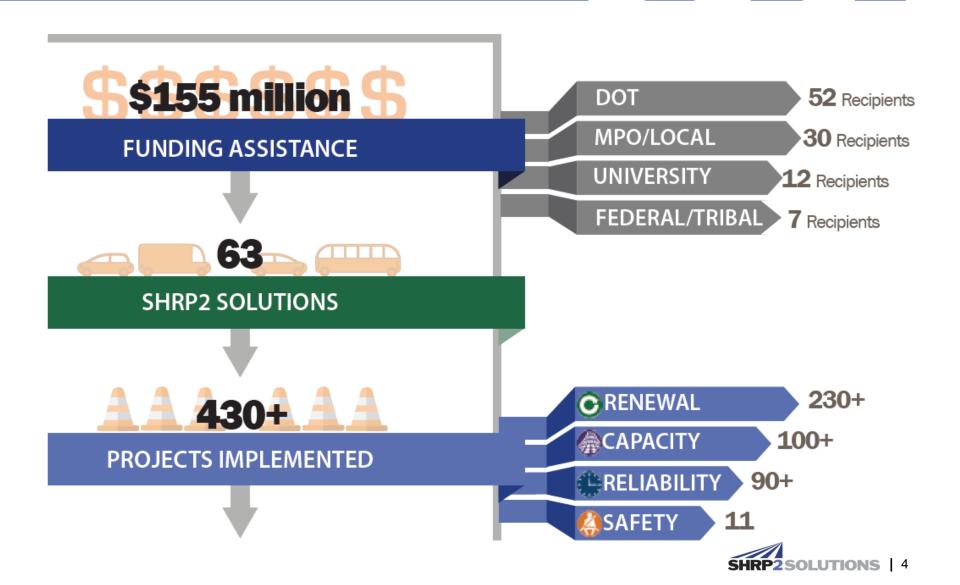
Renewal: rapid maintenance and repair of the deteriorating infrastructure using already-available resources, innovations, and technologies

SHRP2 Implementation Assistance Program

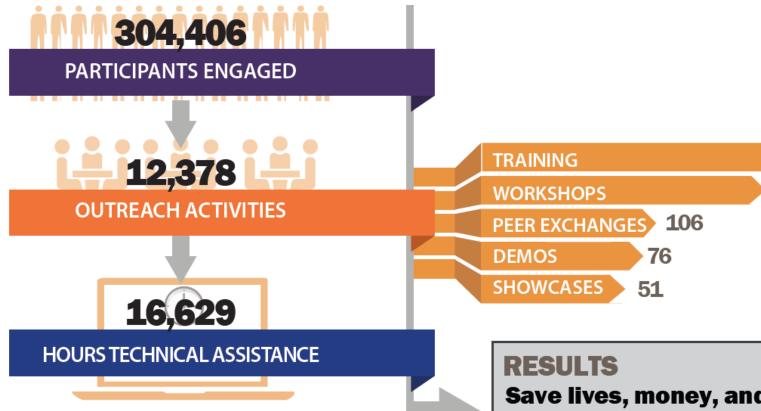
 Designed to help State DOTs, MPOs, local agencies, and other interested organizations deploy SHRP2 Solutions.

Proof of Concept Pilot	Lead Adopter Incentive	User Incentive
To evaluate product readiness.	To help offset costs associated with product implementation and risk mitigation.	To support implementation activities, such as conducting internal assessments, changing processes, and organizing peer exchanges.

SHRP2 Implementation: INNOVATE – IMPLEMENT - IMPROVE



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Save lives, money, and time

- Bridges being built more quickly
- Smoother traffic flows and less congestion
- Reduced construction costs
- Safer roadways
- Smarter environmental reviews

11,435

710

What is SHRP2 R04?

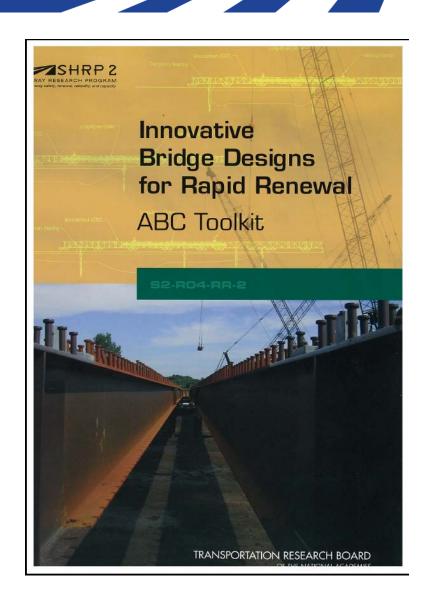
- Provides state and local DOTs with a design toolkit for prefabricated bridge projects.
- Standardized approaches streamline the activities required to get bridge replacement systems designed, fabricated, and erected in less time, and installed in hours or weeks, rather than months.
- Standard design plans for foundation systems, substructure and superstructure systems, subsystems, and components that can be installed quickly with minimal traffic disruptions.

R04 Implementation Projects

- Through the Implementation Assistance Program, 8 states received funding and technical assistance to use the R04 product.
- SHRP2 Implementation Assistance Projects included:
 - Arizona: Gila River Indian Reservation
 - California: Fort Goff Creek
 - Kentucky: Stewarts Creek
 - Maine: Kittery Overpass
 - Missouri: Boone County
 - Rhode Island: Warren Avenue
 - Wisconsin: I-39/94
 - Michigan: Seney Wildlife Refuge

SHRP2 R04 Toolkit Training

- A one day training class introduces frontline DOT employees to ABC in general and the SHRP2 R04 Toolkit in particular.
- Offered to the State DOT's, contractors, fabricators and academics.
- 16 states received the first round of training.
- Second round of 19 trainings in progress with 2 openings.



SHRP2 Resources

- Innovative Bridge Designs for Rapid Renewal (R04) AASHTO Product Website
- Innovative Bridge Designs for Rapid Renewal FHWA Product Website
- Innovative Bridge Designs for Rapid Renewal ABC Toolkit
- Innovative Bridge Designs for Rapid Renewal Research Report

Additional ABC Websites

- Federal Highway Administration Accelerated Bridge Construction Website
- Transportation Research Board Subcommittee on Accelerated Bridge Construction Website
- AASHTO Committee on Bridges and Structures
 Website
- Accelerated Bridge Construction University
 Transportation Center Website

Reports, Tools, and Manuals

- Slide-in Bridge Construction Cost Estimation
 Tool Guidelines
- Precast Prestressed Concrete Bridge Design Manual Third Edition
- PCI State-of-the-Art Report on Full-Depth
 Precast Concrete Bridge Deck Panels
- PCI State-of-the-Practice Report of Precast/Prestressed Adjacent Box Beam Bridges
- PCI Curved Precast Concrete Bridges Stateof-the-Art Report

Questions?

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http://shrp2.transportation.org/Pages/Bridge-Designs-for-Rapid-Renewal.aspx

