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Federal-aid Program Overview

SHRP2: Tools for the Road Ahead

www.fhwa.dot.gov/federal-aidessentials

The new program provides ready-to-deploy products and processes to address some of today's toughest transportation challenges



How can we deliver better projects faster, reduce congestion, and improve safety while the number of motorists grows and budgets shrink?



These are three critical issues facing every transportation agency.

Transportation researchers have found many solutions to address our shared problems, such as how to design bridges that go up faster and stay up longer, preserve pavement, and increase highway capacity by improving operations.

The challenge for most agencies is how to take advantage of these innovative practices so that “business as usual” can mean business that is effective and efficient.

To meet this challenge, the Federal Highway Administration, in partnership with the

American Association of State Highway and Transportation Officials, and the Transportation Research Board, has launched the second Strategic Highway Research Program, called SHRP2.



Like its predecessor, SHRP2 turns proven research into ready-to-deploy guides, reports, online tools, training, and other practical products for use by State and local transportation agencies.



SHRP2 also provides implementation assistance to State departments of transportation, metropolitan planning organizations, and tribal and local transportation agencies. Implementation assistance can take the form of training, technical assistance, and financial support.



SHRP2 offers products in four focus areas:

- Renewal
- Reliability
- Capacity
- Safety



Renewal products help transportation organizations rapidly restore highway infrastructure while minimizing delays and disruptions to users and providing longer-lasting, easier-to-maintain facilities. Renewal products address bridges, pavements, utilities, railroads, nondestructive testing, and project delivery. For example, the *SHRP2 Innovative Bridge Designs Toolkit* offers approaches to the design and construction of complete bridge systems that make accelerated bridge construction economical for major and minor bridge projects.



Reliability products help agencies improve their operations and management of the transportation system and address the type of events that make travel times unreliable, such as crashes, work zones, special events, and inclement weather.



For example, one training product instructs first responders on a common set of practices so they can effectively work together to respond to and clear traffic crashes. Instructional techniques using case-study analysis, role-play scenarios, and field workshops make this training interactive and engaging.



Capacity products introduce collaborative decisionmaking as a way of expediting the planning and delivery of roadways that meet environmental, economic, and mobility needs.



For example, the SHRP2 Implementing Ecological product offers a nine-step planning roadmap to help agencies achieve better environmental outcomes at a lower cost. The product includes tools, guidelines, and model agreements that can integrate into an agency's ecosystem approach to conservation, planning, and environmental permitting.



Safety products create a better understanding of driving behavior that can be used to design improved safety countermeasures, driver training programs, and vehicles.



The major products from the Safety area are two databases that contain video recordings of more than 3,000 drivers over a one- to two-year period. Using this data, the safety community can move past traditional observations of collisions or near misses, to an understanding of how and why it happened.

These are just some of the ways in which SHRP2 solutions, together with implementation resources, will help State and local agencies more efficiently and effectively restore infrastructure, reduce congestion, and deliver a highway system that will serve the Nation through the 21st century.



The Federal Highway Administration invites you to visit the SHRP2 Web site and learn more about innovative, practical solutions that help your agency further its mission of saving lives, money, and time.

Additional Resources

- Overview of SHRP2 Solution's Implementation Assistance Program, including how to obtain technical or financial assistance, or both <http://www.fhwa.dot.gov/goshrp2/ImplementationAssistance>
- Overview of SHRP2 Solutions from a transportation agency perspective <http://www.fhwa.dot.gov/goshrp2/YourSHRP2/TransportationAgencies>
- Overview of SHRP2 Solutions for Safety focus area <http://www.fhwa.dot.gov/goshrp2/Solutions/Safety/List>
- Overview of SHRP2 Solutions for Renewal focus area <http://www.fhwa.dot.gov/goshrp2/Solutions/Renewal/List><http://www.fhwa.dot.gov/goshrp2/Solutions/Renewal/List>
- Overview of SHRP2 Solutions for Reliability focus area <http://www.fhwa.dot.gov/goshrp2/Solutions/Reliability/List>
- Overview of SHRP2 Solutions for Capacity focus area <http://www.fhwa.dot.gov/goshrp2/Solutions/Capacity/List>
- Resources and information to help implement SHRP2 Solutions <http://www.fhwa.dot.gov/goshrp2/Resources>
- SHRP2 Solutions frequently asked questions <http://www.fhwa.dot.gov/goshrp2/FAQ>

The content of this document is not a substitute for information obtained from State departments of transportation, appropriate FHWA Division Offices, and applicable laws. Scenarios have been simplified for emphasis and do not necessarily reflect the actual range of requirements applicable to the scenario or this topic. This document was created under contract number DTFH61-11-D-00025 by the Federal Highway Administration, U.S. Department of Transportation, and is offered to the public to heighten and focus awareness of Federal-aid requirements within the local public agencies community and reinforces the importance of these necessary policies, procedures, and practices.

This Companion Resource is the script content for the video production of the same name.