



SHRP2 – Contribution to Accelerated Bridge Construction

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U.S. Department of Transportation
Federal Highway Administration

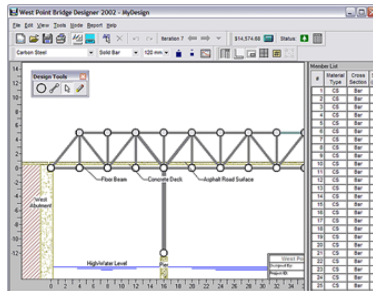


SHRP2 Delivery Status

- \$232M in research under SAFETEA-LU
- \$169M for implementation under MAP-21
- Delivered as *direct funding* and *technical assistance*
- Four IAP rounds delivered thus far, with two coming in 2015



150,000 Bridges Need Repair – SHRP2 is on the Job



Project Development



Construction



Preservation

Innovative Bridge Designs (R04)
Service Life for Bridges (R19A)
Implementing Eco-Logical (C06)
Minimizing Risk in Rapid Renewal (R09)
GeoTech Tools (R02)
Railroad-DOT Mitigation Strategies (R16)
Utilities Bundle (R15B, R01 A, R01 B)

Innovative Bridge Designs (R04)
Minimizing Risk in Rapid Renewal (R09)
Performance Specifications for Rapid Renewal (R07)
Project Management Strategies for Complex Projects (R10)
Railroad-DOT Mitigation Strategies (R16)

Nondestructive Testing for Bridges and Tunnels (R06 A/G)
Service Life Design for Bridges (R19A)

Who Are We?

RESEARCH –
TRB

IMPLEMENTATION –
FHWA/AASHTO

SUBJECT MATTER EXPERTS
/ LOGISTICS / MARKETING –
CH2M Hill

TECHNICAL SME's –
Other Subconsultants

Implementation Assistance Program

21 IAP Field Projects Underway



Implementation Assistance Program

30 IAP Bridge-Related Projects Underway



Implementation Assistance Program

20+ IAP opportunities coming in 2015

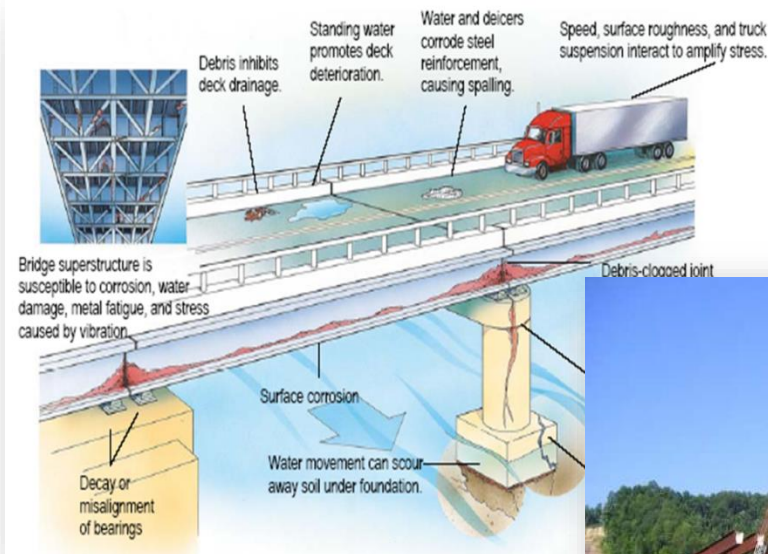


Upcoming SHRP2

SHRP2 Implementation Assistance Program



SHRP2 Implementation Assistance Program



Proof-of-Concept Pilot

Lead Adopter



User Incentive

IAP Projects In Action



Innovative Bridge Design for Rapid Renewal (R04)



- Toolkit
 - Standard design plans for all bridge components
 - Design examples
 - Videos and peer exchange information
- Implementation States
 - Arizona, California, Iowa, Kentucky, Maine, Michigan, Missouri, New York, Rhode Island and Wisconsin

GeotechTools.org (R02)

- Provides a convenient and efficient way to identify and apply geotechnical solutions
- 46 technologies, design issues and other variables
- Photographs, case histories and examples
- 14 States involved in implementation projects



Service Life Design for Bridges (R19A)

- Design Methods and Guidance for Service Life Design
 - Environmental factors, materials, new technologies for longer bridge life
 - Design examples
 - Training and webinars
 - Iowa, Oregon, Pennsylvania, Virginia and Central Federal Lands (Hawaii)

Performance Specification for Rapid Renewal (R07)



- Model performance specifications in 5 categories
- 23 different specifications
 - Design-bid-build, design-build, design-build-warranty and design-build-operate-maintain
- Decision Tree and Writers Guide offer a step-by-step how to for developing the specifications
- States implementing are Alabama, Maine, Missouri, Pennsylvania and Vermont

Non-Destructive Testing Technologies (R06A and G)

- Decks (R06A)
 - Web based tool – selecting appropriate testing for specific applications
 - Identifies tests procedures, protocols and available standards
 - Eight states currently implementing
- Tunnels (R06B)
 - Web based tool – information on methods for mapping voids, debonding and other defects
 - Users manual and guide for evaluating the best NDT for the situation
 - Implemented by Colorado and Pennsylvania

Implementation Assistance Rounds 6 and 7 Schedule

Round 6

- Product Webinars 5/15
- IAP Applications 6/15-7/15
- Selections Announced 8/15

Round 7

???



Round 6 Products



- ???
- **Information on products and webinars for round 6 available??**

For More SHRP2 Information

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SHRP2 SOLUTIONS
TOOLS FOR THE ROAD AHEAD

FHWA AASHTO TRB

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Your SHRP2
Guides, training materials, and new technology - Real solutions to help you solve real problems.

- Transportation Agencies
- Private Industry
- Research Community
- Other Stakeholders and Users

Solution Spotlight
Capacity Process Tools Bundle (C02/C08/C09/C12/C15)

IMPLEMENTATION ASSISTANCE
★
Announcing [Round 4](#) recipients and [Round 5](#) products.

SHRP2 Nationwide Talking About SHRP2 Tools You Can Use Resources

Simply Google "SHRP2"