



# Expediting Project Delivery (C19)

July 23, 2013



U.S. Department of Transportation  
Federal Highway Administration



TRANSPORTATION RESEARCH BOARD  
OF THE NATIONAL ACADEMIES

# Agenda

- SHRP2 Overview
  - What is SHRP2?
  - Focus Areas
  - Implementation Assistance
- Technical Product Description
- Product Implementation
- Implementation Timeline
- Questions?



Source: Sonoma Land Trust and Caltrans

# What is SHRP2?

(Second Strategic Highway Research Program)

**Save lives. Save money. Save time.**



- Products developed from objective, credible research
- Solutions that respond to transportation community challenges – safety, aging infrastructure, congestion
- Tested products, refined in the field

**SHRP2 Solutions offer new technologies and processes to enhance the efficiency of transportation agencies**

# Why is SHRP2 Important?

## Tools for the Road Ahead

SHRP2 Solutions have the power to change the way transportation agencies do business.

- ➔ *By providing new research-based tools and innovative products and processes...*
- ➔ *That will create more efficiencies and a smarter use of state and federal investments of taxpayer dollars.*



# Focus Areas



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



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



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



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

# Implementing SHRP2 Solutions

## Moving Forward

- Approximately 66 high-priority products introduced over the next several years
- Users run the gamut of the transportation industry
- Selected products integrated into current transportation practices



# SHRP2 Implementation Assistance Program

## **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

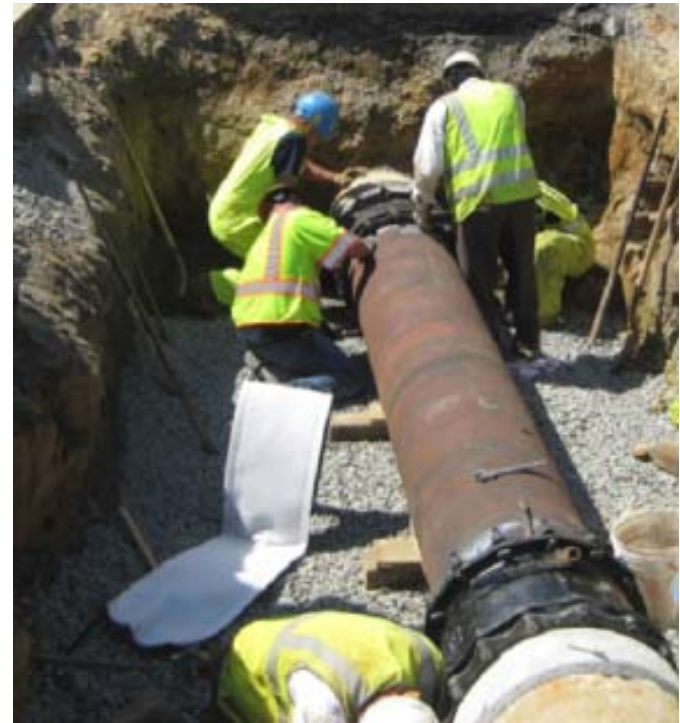
## **User Incentive**

- 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

# Round 1 Implementation Assistance

## First Round at a Glance

- 34 states and the District of Columbia
- 6 SHRP2 Solutions at work on 108 transportation projects
- 2 proof of concept pilots
- 74 lead adopter incentives
- 24 user incentives
- Limited technical assistance to 8 states



# Round 2 Implementation Assistance



## *Capacity*

- Expediting Project Delivery (C19)



## *Renewal*

- Performance Specifications for Rapid Renewal (R07)
- Managing Risk in Rapid Renewal Projects (R09)
- Railroad-DOT Mitigation Strategies (R16)

# Product Implementation Assistance Opportunities

Product	Proof of Concept Pilot	Lead Adopter Incentive	User Incentive
<b>C19: Expediting Project Delivery</b>		<b>5</b>	<b>5</b>
R07: Performance Specifications for Rapid Renewal		4	
R09: Managing Risk in Rapid Renewal		4	
R16: Railroad-DOT Mitigation Strategies		4	4

# Implementation Assistance Selection Criteria

## General Criteria for Participants (will vary somewhat among products)

- Geographic diversity of participants
- Demonstrated culture to implement new products or processes
- Demonstrated past interest and/or efforts to implement similar products or processes
- High commitment to making institutional/organizational changes
- Commitment to conduct demonstration workshops
- Willingness to share experience by facilitating peer-to-peer activities
- Commitment to dedicate staff to the implementation project



# Bringing greater collaboration for better, faster decisions



Capacity Focus Area –  
Expediting Project Delivery



# Expediting Project Delivery

## – C19

### Challenge

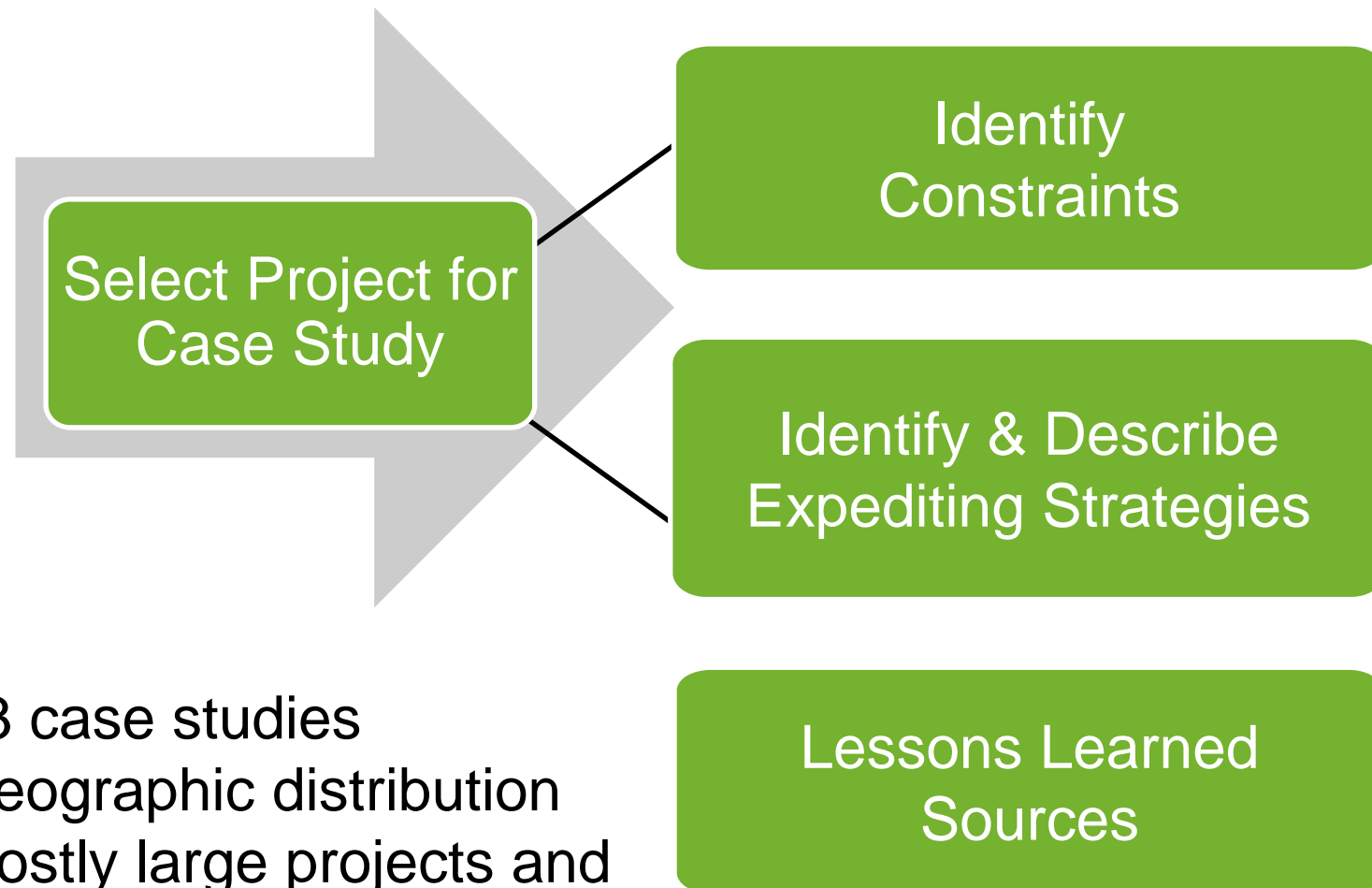
- Navigating the environmental planning process associated with highway capacity projects can be time-consuming and costly.
- At the same time, elected officials and the public demand that highway projects be delivered with fewer delays, with greater transparency and collaboration, and in ways that address environmental challenges.

### Solution

Guidebook that identifies 24 strategies for addressing or avoiding 16 common constraints in order to speed delivery of transportation planning and environmental review of projects.



# Case Study Process



- 13 case studies
- Geographic distribution
- Mostly large projects and programs

# What are the Constraints to Expediting?

- Avoiding decisions through continual analysis
- Conflicting resource values
- Difficulty agreeing on impacts or mitigation
- Inability to maintain agreements
- Ineffective internal communication
- Inefficient agency consultation
- Inordinate focus on singular issue
- Insufficient public engagement or support

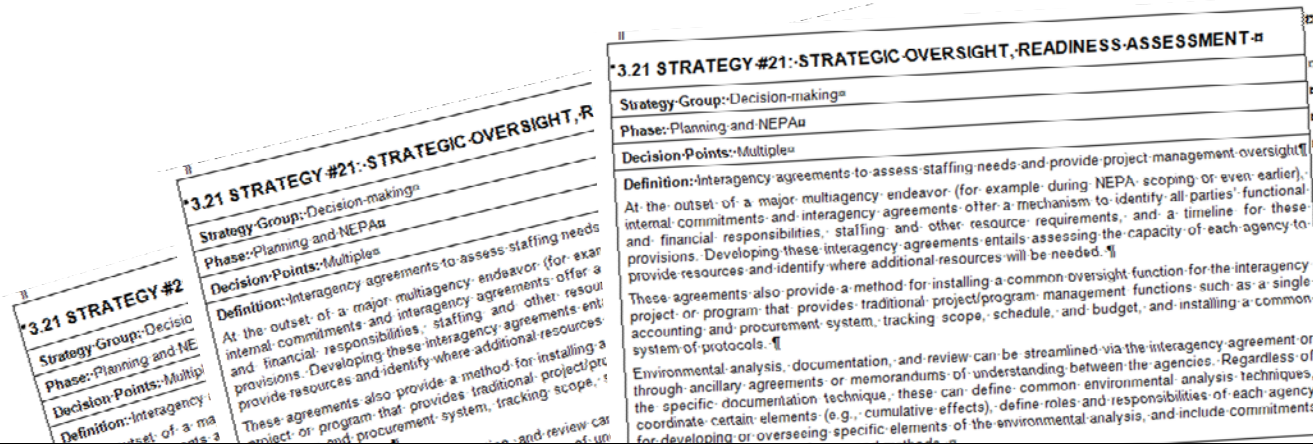


# What are the Constraints to Expediting? *(cont.)*

- Issues arise late in process
- Lengthy review/revision cycles
- Negative or critical media coverage
- Relocation process delays
- Revisiting past decisions
- Shortage of staff dedicated to project development
- Slow decision making
- Stakeholder controversy and opposition
- Unusually large or complex project



# Expediting Project Delivery Assessment



- Transportation for Communities: Advancing Projects through Partnerships (TCAPP) – BETA site:

[http://www.transportationforcommunities.com/s/hrpc01/expediting\\_project\\_delivery\\_questions\\_new](http://www.transportationforcommunities.com/s/hrpc01/expediting_project_delivery_questions_new)

# Expediting Strategies

## 24 Strategies; Organized in Six Groups (overlap)

1. Improve internal coordination and communication
2. Streamline decision making
3. Improve resource agency involvement and collaboration
4. Improve public involvement and support
5. Demonstrate real commitment to the project
6. Coordinate work across phases of delivery

# Strategies: Improve Internal Coordination and Communication

- Facilitation to Align Expectations
- Risk Management
- Project Change Control
- Readiness Assessment
- Team Co-location



# Strategies: Streamlining Decision Making

- Readiness Assessment
- Expedited Internal Review and Decision Making
- Decision Council



# Strategies: Improve Resource Agency Involvement and Collaboration

- Dispute Resolution Process
- Performance Standards
- Real Time Review
- Batched/Programmatic Permits
- Regional Environment Analysis Framework
- Funded Agency Liaisons

# Strategies: Improve Public Involvement and Support

- Highly Responsive Public Involvement
- Context Sensitive Solutions/Context Sensitive Designs
- Media Relations Manager



# Strategies: Demonstrate Real Commitment

- Early Construction Funding Commitment
- Upfront Environmental Commitment



# Strategies: Coordinate Work Across All Phases of Project Delivery

- Planning-level Screening
- Planning and Environmental Linkages
- Regional Environmental Analysis Framework
- Tiered NEPA process



# Benefits



- Fewer project delays through earlier and more accurate prediction of potential problems
- By applying strategies early in planning, subsequent project development phases can be expedited
- Faster resolution of expected delays by applying proven mitigation strategies
- Lower project costs as a result of expedited project development
- Improved public trust through on-time and on-budget project delivery

# Implementation Planning

- Implementation Planning Workshop
  - May 14-15, 2013
- Implementation Strategy Themes
  - Organizational awareness of, and access to, C19 suite of strategies
  - Training and technical resources for executives and practitioners
  - Incentives for collaboration, relationship building, and knowledge sharing
  - Formal implementation of C19 strategies through guidelines, model agreements, policies, and processes
  - Marketing and branding of the C19 suite of strategies

# Assistance Opportunities

Second Round - Aug 2013	Proof of Concept Pilot	Lead Adopter Incentive	User Incentive
C19 – Expedited Project Delivery		5	5

- Option for FHWA to facilitate an assessment workshop to identify constraints and develop an action plan
- DOT/MPO will provide feedback on process and benefits of product
- DOT/MPO will become champion for product implementation in other states or to other agencies

# Application Tips

<b>Do</b>	<b>Don't</b>
Make your application clear and concise	Apply if you do not represent a state DOT or MPO
Have your project relate to transportation	Rely on your attachments; narrative should be complete
Describe specifically what the funds will be spent on	Be late; applications are due on September 6
Describe the timeline, outcomes, and deliverables you expect to achieve	Forget that implementation assistance is to advance Expediting Project Delivery
Expect to share the results of your project	Focus on a unique process for a single project

# Round 2 Implementation Assistance Schedule

- Product Webinars held in July

R16 – Railroad-DOT Mitigation Strategies	July 18	2-3:30 p.m.
C19 – Expediting Project Delivery	July 23	12-1:30 p.m.
R07 – Performance Specifications for Rapid Renewal	July 24	12-1:30 p.m.
R09 – Managing Risk in Rapid Renewal	July 26	12-1:30 p.m.

- Implementation Assistant Timeline

- Application period opens August 2
- Application period closes September 6
- Awards announced Mid-October

- More information at [www.fhwa.dot.gov/goshrp2](http://www.fhwa.dot.gov/goshrp2)

# Additional Resources

- State Visits

- SHRP2 Tuesdays

C19 June 4 <http://www.trb.org/PlanningForecasting/Blurbs/168845.aspx>

R07 June 11 <http://www.trb.org/Pavements/Blurbs/168927.aspx>

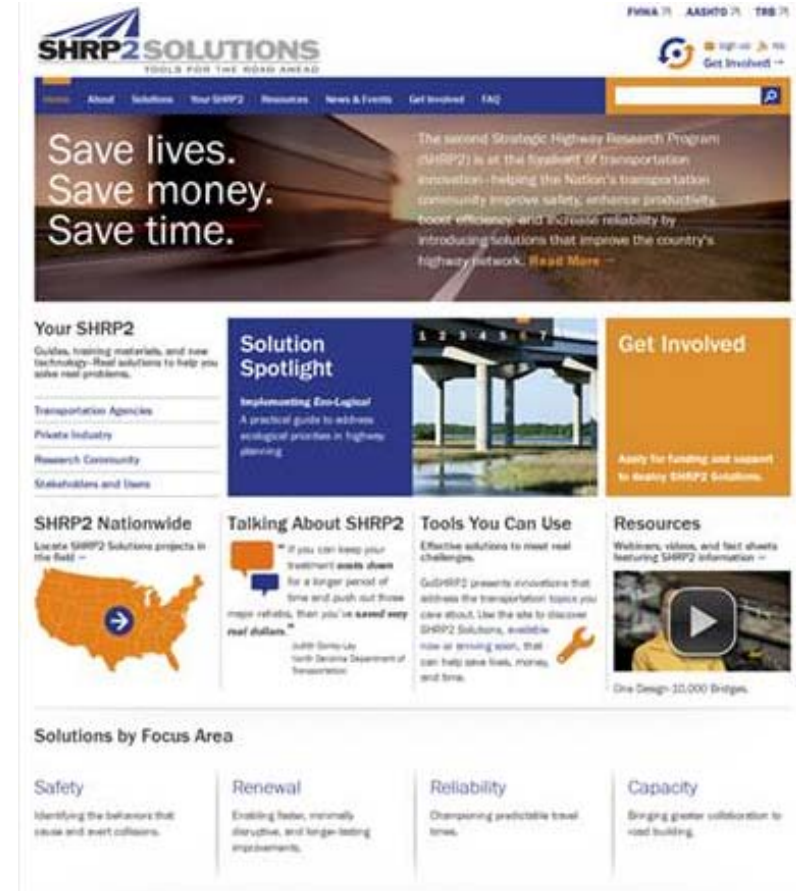
R16 July 9 <http://www.trb.org/Railroads/Blurbs/169188.aspx>

R09 August 20 at 2:00 p.m. ET



# SHRP2 on the Web

- **goSHRP2 (launches Aug. 2)**  
[www.fhwa.dot.gov/goSHRP2](http://www.fhwa.dot.gov/goSHRP2)
  - Comprehensive information about SHRP2's implementation phase
  - Launch coincides with opening of Round 2 Implementation Assistance
- **SHRP2 @TRB**  
[www.TRB.org/SHRP2](http://www.TRB.org/SHRP2)
  - Information about research phase
- **SHRP2 @AASHTO**  
<http://SHRP2.transportation.org>
  - Implementation information for AASHTO members



# Questions?

SHRP2 Implementation Assistance: [www.fhwa.dot.gov/goSHRP2](http://www.fhwa.dot.gov/goSHRP2)

Final report: <http://www.trb.org/Main/Blurbs/165282.aspx>

Assessment:

[http://www.transportationforcommunities.com/shrpc01/expediting\\_project\\_delivery\\_questions\\_new](http://www.transportationforcommunities.com/shrpc01/expediting_project_delivery_questions_new)

*For more information:*

Neel Vanikar

FHWA

[Neel.Vanikar@dot.gov](mailto:Neel.Vanikar@dot.gov)

Shannon Eggleston

AASHTO

[seggleston@aaashto.org](mailto:seggleston@aaashto.org)



[goshrp2@dot.gov](mailto:goshrp2@dot.gov)