• For past two years, SHRP2 research has been wrapping up and implementation gearing up

• Basic concept: A research report is not a product. Reports must be converted into actionable products such as:
  – Guides
  – Software tools
  – New processes
  – Technologies and Tools
  – Testing procedures
  – Safety data
Efforts are Collaborative

• Implementation is cooperative. It engages:
  – **AASHTO**
  – **FHWA**
  – **SHRP2/TRB staff**

• AASHTO’s role is to facilitate state implementation

• FHWA, TRB also serve locals, academia, MPOs
Prioritizing States’ Needs

• AASHTO’s role is focused on identifying which products meet the states’ practical needs

• We are relying on members and committees to define how implementation can be successful
Moving forward

• 31 high-priority products are now being introduced, with more to come
• Users run the gamut of the transportation industry
• Selected products integrated into current transportation practices
## 2012 3-Year Plan Budget

<table>
<thead>
<tr>
<th>Product Costs</th>
<th>$ millions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reliability</td>
<td>$15</td>
</tr>
<tr>
<td>Renewal</td>
<td>$17</td>
</tr>
<tr>
<td>Capacity</td>
<td>$14.5</td>
</tr>
<tr>
<td><strong>Programmatic Costs</strong></td>
<td></td>
</tr>
<tr>
<td>Safety</td>
<td>$10</td>
</tr>
<tr>
<td>IT Products</td>
<td>$3</td>
</tr>
<tr>
<td>Additional Product Development</td>
<td>$3</td>
</tr>
<tr>
<td>Implementation of Other Products</td>
<td>$3</td>
</tr>
<tr>
<td>Outreach and Communication</td>
<td>$5</td>
</tr>
<tr>
<td>AASHTO, TRB, FHWA Project Management</td>
<td>$12</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$81 million ±</strong></td>
</tr>
</tbody>
</table>
Expanding the Program

2013: It was time to revisit the plan

- **More money:** Additional $87 million available to put toward implementation
- **More products:** 39 additional research projects are becoming available
- **More experience:** Better understanding of costs and processes needed to ensure user implementation
AASHTO Implementation Task Force

• **ITF Meeting**, March 28-29
  - 28 State DOTs met to review products for next round of implementation plan

• **Survey of AASHTO Committees** to gauge value of potential new products

• 11 meetings of **Focus Area Teams**

• **Engagement of FHWA and TRB**

• **ITF Recommendations** now being developed

5/9/2013
AASHTO Survey Results

- 21 AASHTO Committees surveyed
- 38 products reviewed
  - 11 of the 38 were in 2014 of current 3-year plan
- 321 Respondents
## SCOH’s Value of Products – Top Ten

<table>
<thead>
<tr>
<th>Number</th>
<th>Product Name</th>
<th>SCOH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Renewal</strong></td>
<td></td>
</tr>
<tr>
<td>R01A</td>
<td>Technologies to Store, Retrieve, and Use 3-D Utility Location Data</td>
<td>3.5</td>
</tr>
<tr>
<td>R01B</td>
<td>Utility Locating Technologies</td>
<td>3.3</td>
</tr>
<tr>
<td>R06C</td>
<td>Rapid Technologies for Quality Control Data on Asphalt Pavements</td>
<td>3.8</td>
</tr>
<tr>
<td>R19A</td>
<td>Service Life Guide for 100-Year Bridges</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td><strong>Capacity</strong></td>
<td></td>
</tr>
<tr>
<td>C15</td>
<td>Integrating Freight Considerations into Collaborative Decision Making for Additions to Highway Capacity</td>
<td>3.7</td>
</tr>
<tr>
<td></td>
<td><strong>Reliability</strong></td>
<td></td>
</tr>
<tr>
<td>L02</td>
<td>Guide to Establish Monitoring Programs for Travel Time Reliability</td>
<td>3.5</td>
</tr>
<tr>
<td>L05</td>
<td>Handbook for Incorporating Reliability Performance Measures into Transportation Planning &amp; Programming</td>
<td>3.5</td>
</tr>
<tr>
<td>L14</td>
<td>Communicating Traveler Information and Estimating Its Value to Travelers</td>
<td>3.5</td>
</tr>
<tr>
<td>L32B</td>
<td>E-learning for Training and Certification for Traffic Incident Responders</td>
<td>3.7</td>
</tr>
<tr>
<td>L36</td>
<td>Regional Operations Academy</td>
<td>3.4</td>
</tr>
</tbody>
</table>
Weighted Overall Value

Weighted Average of Survey

Product
- RO6C
- L32B
- L02
- RO1A
- L3G
- L14
- R19A
- C15
- L05
- L07
- R01B
- L08
- C03\C11
- C05
- R19B
- L32C
- R11
- RO6E
- R02
- RO6D
- Total Average
- L11
- C20
- R01C
- L03
- R21
- RO6B
- L04
- R01
- C12
- L34
- C10A\C10B
- C04
- C08
- C22
- C09
- C16
- R03
- RO5
- C46
- RO6G

Value of Product (1=Not Important)
ITF Deliberations

• **Breakout sessions** to fully discuss products
• Recognition of **three categories of implementation:**
  – National implementation
  – “Niche” implementation – those with high interest for some, such as Tunnel Lining Testing Product (R06G)
  – Resource implementation
• **Safety Decisions**
  – $10.25M shifted to maintenance of Naturalistic Driving Study database
  – Total: $25M for NDS database, hosting and technical support
  – ITF endorsed a safety implementation strategy

• **Contingency added for product implementation**
Next Steps

• Development of ITF report
• Survey results posted to http://SHRP2.transportation.org
• Recommendations reviewed by FHWA
• FHWA Consultation with AASHTO
• Joint FHWA / AASHTO presentation to SHRP2 Oversight Committee in mid-June
• Updated SHRP2 Implementation Plan
• Continued implementation of 2013 products within the existing 3-year plan
SHRP2 Implementation Assistance Program
SHRP2 Plan of Action

Opportunities for implementation assistance

• Proof of Concept Pilots
• Lead Adopter Incentives
• User Incentives

Timeline

• Application process through FHWA
  – First round solicitation of interest ended March 22, 2013
  – Reviews and awards announced on Friday, May 3
  – Second round in summer/fall 2013
Implementation Opportunities

• 34 States and the District of Columbia
• 108 different transportation projects
  – Two proof of concept pilots
  – 74 lead adopter incentives
  – 24 user incentives
  – Limited technical assistance for 8 States
Additional Support Activities

- Technical assistance
- Training
- Peer exchange
- Case studies and business cases to demonstrate product application and outcomes
- Communications and outreach  
  (factsheets, videos, events/conferences, committee presentations)
- Lead State Program/product champions
SHRP2 on the Web

- **SHRP2 @AASHTO**
  - [http://SHRP2.transportation.org](http://SHRP2.transportation.org)
  - SHRP2 product fact sheets and collateral
  - Focus on AASHTO members

- **SHRP2 @TRB**
  - Comprehensive info about research phase

- **goSHRP2 (coming in summer)**
  - Information clearinghouse for SHRP2 implementation phase
  - Links to other SHRP2 websites
You are already part of the SHRP2 championship team!
Ways to Get the Word Out

• **Talk to your colleagues**
  – Add a SHRP2 slide to your next presentation
  – Schedule a SHRP2 brown bag for your division or agency
  – Speak at a committee meeting
  – Post a question, photo, or SHRP2 fact on your social media sites

• **Be a panelist at an upcoming industry event**

• **Provide your organization’s perspective on upcoming webinars**

• **Sign up for SHRP2 emails**
Questions?

Stay informed and stay tuned!

Carlos Braceras
Interim Director and Chief Engineer
Utah Department of Transportation

For more SHRP2 information:
http://SHRP2.transportation.org

Contact Pam Hutton, AASHTO SHRP2 Implementation Manager, 303-263-1212 or phutton@aashto.org