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# AASHTO: TSP-2

Transportation System Preservation  
Technical Services Program

*“Implementation and Sharing”*

WBPP 5-18-16

Ed Welch, Bridge Preservation Engineer

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# We are all Involved (*or Should be*)

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- Owners: States, Counties, Cities & Towns
- Manufactures
- Contractors
- Consultants
- Academia
- FHWA
- TRB

It is truly a Partnership: All addressing sharing perspectives and generating  
**Best Solutions for Needs**



# Success? – YES!

- You are all to be commended for the success of the program to date. You are the ones that have brought us to this point.
- We have a lot of *“Irons in the Fire”* today, and we have too be diligent to not let the fire burn out. **Continue *Implementation!***
- Forward moving initiatives : **4 -WBPP Working Groups,**
- **5-National Working Groups.** Research and 2018 National Meeting Working Groups are being developed
- Be involved in the areas that mean the most to you, and *Share Results!*



# The Evolution of the TSP-2 Program

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- Virtual Demonstrations
- Bridge Preservation For Local Agencies
- 7 Years of Partnership Meetings
- Research Needs Developed and moved forward
- Social Media is Growing Fast
- Bridge Product & Technology Database Project Underway
- Cost Participation on Small Research Projects (50%)





# Virtual Demonstrations

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There was great interest in the Live Demonstrations at the 2014 National Meeting.

To accommodate requests to continue the Demonstration process the Partnerships incorporated Virtual Demos (five minute videos) in their Agendas. 16-18 were shown at each 2015 Regional Meeting.

This continues to be a work in progress for each of the Partnership incorporating the Virtual Demos in the 2016 Agendas.

The inclusion of *case studies* in this years Demos has been promoted.



# Bridge Preservation Training For Local Agencies

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Local Agencies have noted the need for Bridge Preservation Training at varying levels for different audiences.

A TSP-2 Working Group is in the process of addressing these needs. The objective is to offer Bridge Preservation Training at a “*Grass Roots Level*” with an “*A La Carte Menu*” of topics to choose from.

We have already met with and discussed needs with the Indiana LTAP.



# 2016 Partnership Meetings

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- ✓ SEBPP: San Antonio, TX - March 30-April 1
- ✓ WBPP: Salt lake City, UT - May 17-19
- ☐ NEBPP: Baltimore, MD - September 19-21
- ☐ WBPP: Milwaukee, WI - October 3-5
- ☐ **National Meeting:** April/May 2018



# Research Needs Status

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The four TSP-2 Partnerships are working on Research Needs. Each with a different approach, but with the same goal.

John Hooks has been working both on the Research Roadmap and summarizing the Research Needs defined by the Partnerships.

Is now the time to start a **TSP-2 National Bridge Preservation Research Working Group?** Involving all four Partnerships, all four Academic Advisors and Liaisons from SCOM & SCOBS.



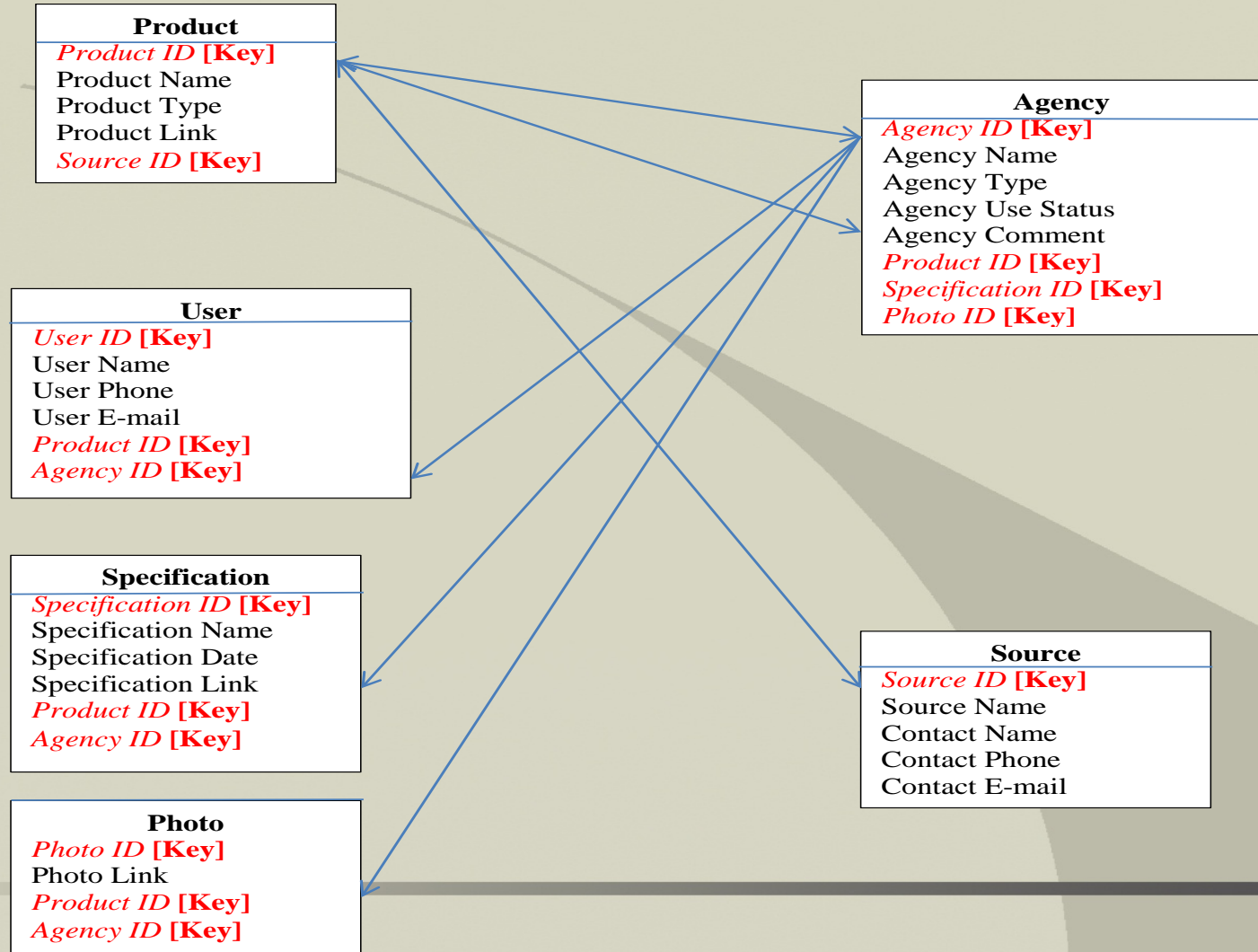


# Bridge Product and Technology Database

- Proposed by the TSP-2 National Bridge Deck Working Group
- Approved by the TSP-2 Oversight Panel for funding
- Presently in the initial stages of database design
- Six months of **Design** and six months of **Population** is anticipated.
- Working Group is working closely with the **Design**
- All four Partnerships and Industry will be deeply involved in the **Population**



Product Type	<b>SEALERS</b>	<ul style="list-style-type: none"> <li>• Epoxies</li> <li>• High Molecular Weight Methacrylates</li> <li>• Methyl Methacrylates</li> <li>• Silanes</li> <li>• Siloxanes</li> <li>• Other</li> </ul>
	<b>OVERLAYS, THIN (&lt;1")</b>	<ul style="list-style-type: none"> <li>• Epoxies</li> <li>• Polyesters</li> <li>• Modified Epoxies</li> <li>• Methacrylates</li> <li>• Other</li> </ul>
	<b>OVERLAYS, THIN (&gt;1")</b>	<ul style="list-style-type: none"> <li>• Epoxies</li> <li>• Polyesters</li> <li>• Modified Epoxies</li> <li>• Methacrylates</li> <li>• Other</li> </ul>
	<b>PATCHING MATERIALS</b>	<ul style="list-style-type: none"> <li>• Cementitious</li> <li>• ?</li> <li>• ?</li> <li>• ?</li> <li>• Other</li> </ul>
	<b>MEMBRANES</b>	<ul style="list-style-type: none"> <li>• Hot Applied</li> <li>• Cold Applied</li> <li>• Liquid</li> <li>• Other</li> </ul>
	<b>JOINTS</b>	<ul style="list-style-type: none"> <li>• Preformed Joints</li> <li>• Pourable Joints</li> <li>• Asphalt Plug</li> <li>• Closed Cell Foam</li> <li>• Compression Joint</li> <li>• Strip Seal</li> <li>• Sliding Plate</li> <li>• Open Joint</li> <li>• No Joint</li> </ul>
	Other	<ul style="list-style-type: none"> <li>• Prime Coat 1</li> <li>• Coating 1</li> <li>• Scupper 1</li> <li>• Railing System 1</li> </ul>





# Sample Reports

Report 1—Specify Product in Current Use→Agencies→Users

Report 2—Specify Agency→Products in Current Use

Report 3—Specify Source→Products in Current Use→Agencies→Users

Report 4—Specify Product Type→Sources

Report 5—Specify Product in Current Use→Agencies→Specifications

Report 6—Specify Product in Current Use→Agencies→Photos





# 2018 National Meeting

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- The 2014 National was a *Great Success!*
- Lets plan to make the *2018 Meeting Even Better!!*
- Committees will be formed in the fall of this year.
  - Organizing Committee
  - Technical Committee
  - Demonstration Committee
  - Spouse Committee



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# TSP2

## Bridge & Pavement Preservation Research Roadmap Database

<https://www.pavementpreservation.org>



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# It's All About:

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*“Implementation and Sharing”*



Questions?

Comments?

<https://www.pavementpreservation.org>

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# Blank Slide?

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# Deterioration Modeling

100%

0%

Years

50

75

