



WAPA Conference Madison, WI

December 04, 2013

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U.S. Department of Transportation
Federal Highway Administration

AMERICAN ASSOCIATION OF
STATE HIGHWAY AND
TRANSPORTATION OFFICIALS
AASHTO
THE VOICE OF TRANSPORTATION



Solid = **K**haled



Replace the **S** with **K**

Keep in mind that I am very flexible

How much federal government tax are you paying on gasoline ?

A. 7%

B. \$1/gallon

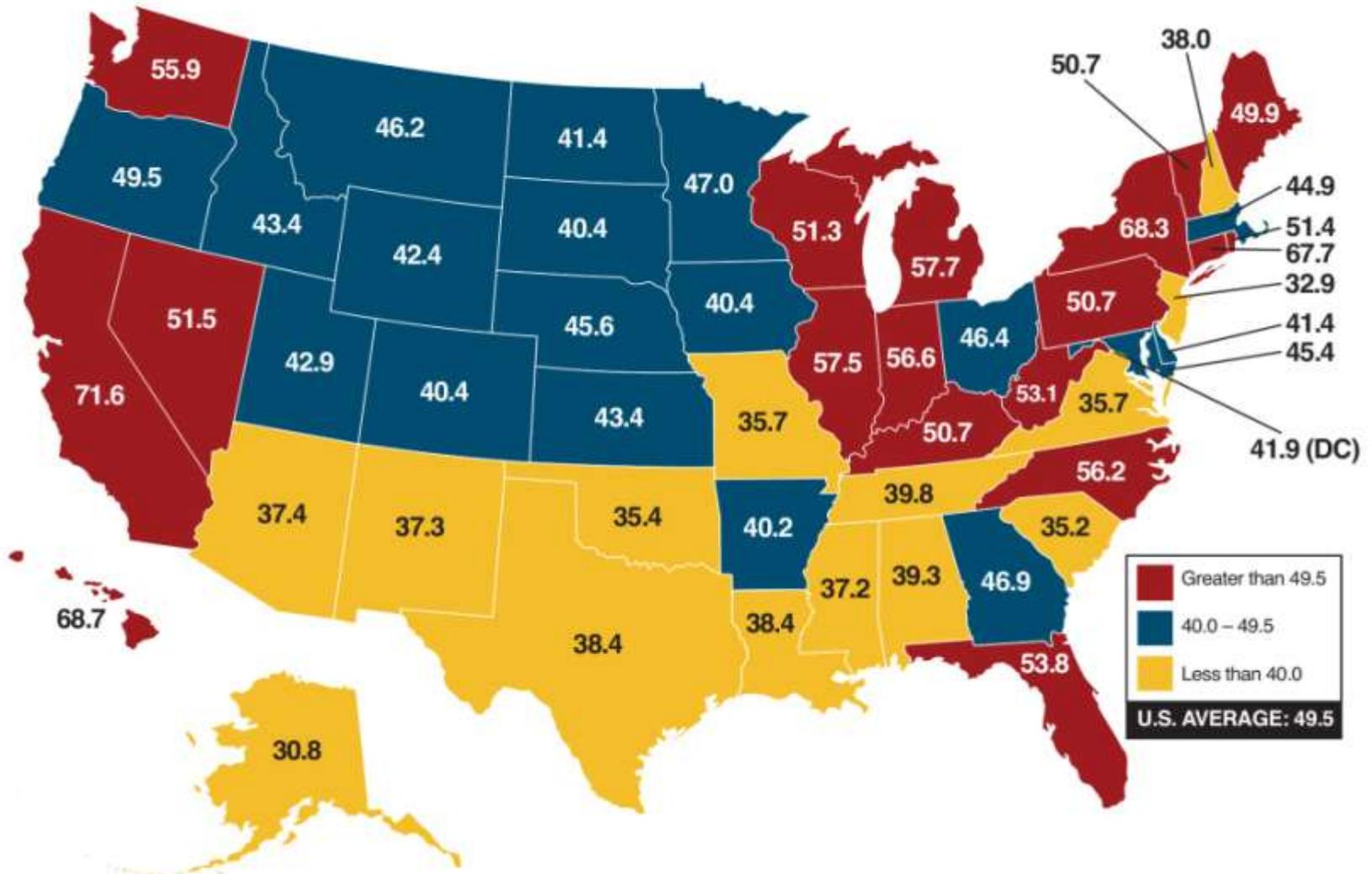
C. \$0.50/gallon

D. \$0.184/gallon



Combined Local, State and Federal Taxes (Cents per Gallon)?

Gasoline Taxes (Combined Local, State and Federal – Cents per Gallon, October 2013)



How much does the average driver in the US contribute to the Highway Trust Fund each year?

A. \$96.78

B. \$138

C. \$288

D. \$144



How much does the average American spend on coffee each year?

- A. \$457
- B. \$572
- C. \$768
- D. \$1,092



CoffeeBreak
American

Pavement & Materials Program – WI Division



- Pavement Performance & Management.
- Pavement innovations and new technologies (EDC 2 , SHRP 2, etc...)



- Review, comment and approve WisDOT FDM related to pavement & materials



- Review, comment and approve WisDOT Specs related to pavement & materials
- Participate in WHRP

Pavement & Materials Program – WI Division



- Make sure that the Federal Regulations are being followed.



- Work closely with WisDOT and the industry (Tech teams, HTCP, perform reviews, etc...).

- Project site visits



- Help WisDOT and the industry with any pavement/materials issues.

Pavement & Materials Program – WI Division



- CFR 637.207: Quality Assurance Program
- CFR 637.209: Laboratory & Sampling and testing personnel qualifications.



- CFR 635.123 Determination and documentation of pay quantity



- CFR 627: Pavement Policy

Pavement and Materials

Your 1st Point of Contact

1. State Highway Agency
 - State Transportation Innovation Councils...
2. Federal-aid Division Office



THANK YOU



Contact Information

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Overview & Pavement Update



U.S. Department of Transportation
Federal Highway Administration



What is SHRP2?

Tools to save lives, save money, save time.



- Products developed from objective, credible research



- Solutions that respond to challenges of the transportation community – safety, aging infrastructure, congestion



- Collaborative effort of AASHTO, FHWA, and TRB
- Tested products, refined in the field

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

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

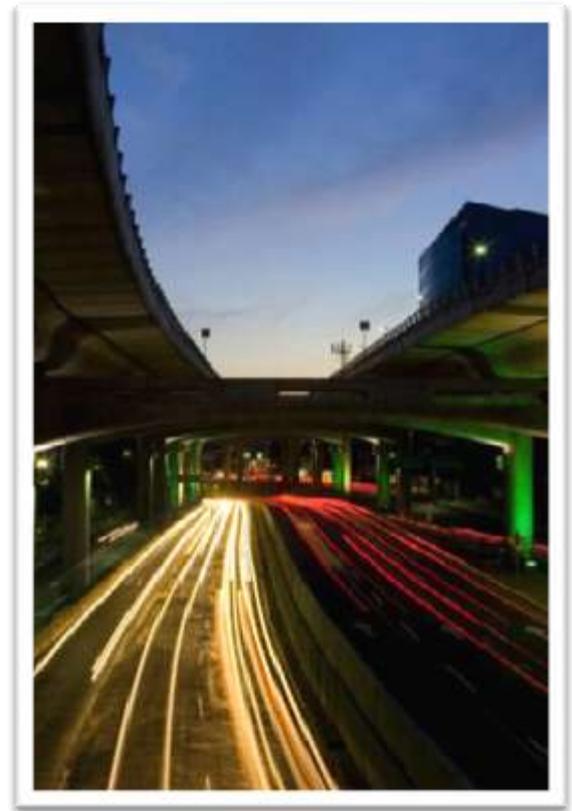


Reliability: reducing congestion and creating more predictable travel times through better operations

Implementing SHRP2 Solutions

Moving Forward

- 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



Renewal Product Overview

Project Management & Design

- Risk management
- Managing complex projects
- Performance specifications
- Work zone impact software
- Fatigue risk management
- Geotechnical solutions

Pavements

- Preservation for high volume roadways
- Composite pavement systems
- Modular pavement solutions
- Using existing pavements in place

Structures

- Bridge designs for rapid renewal
- Service life guide, systems, and components for 100-year bridges

Non-Destructive Testing

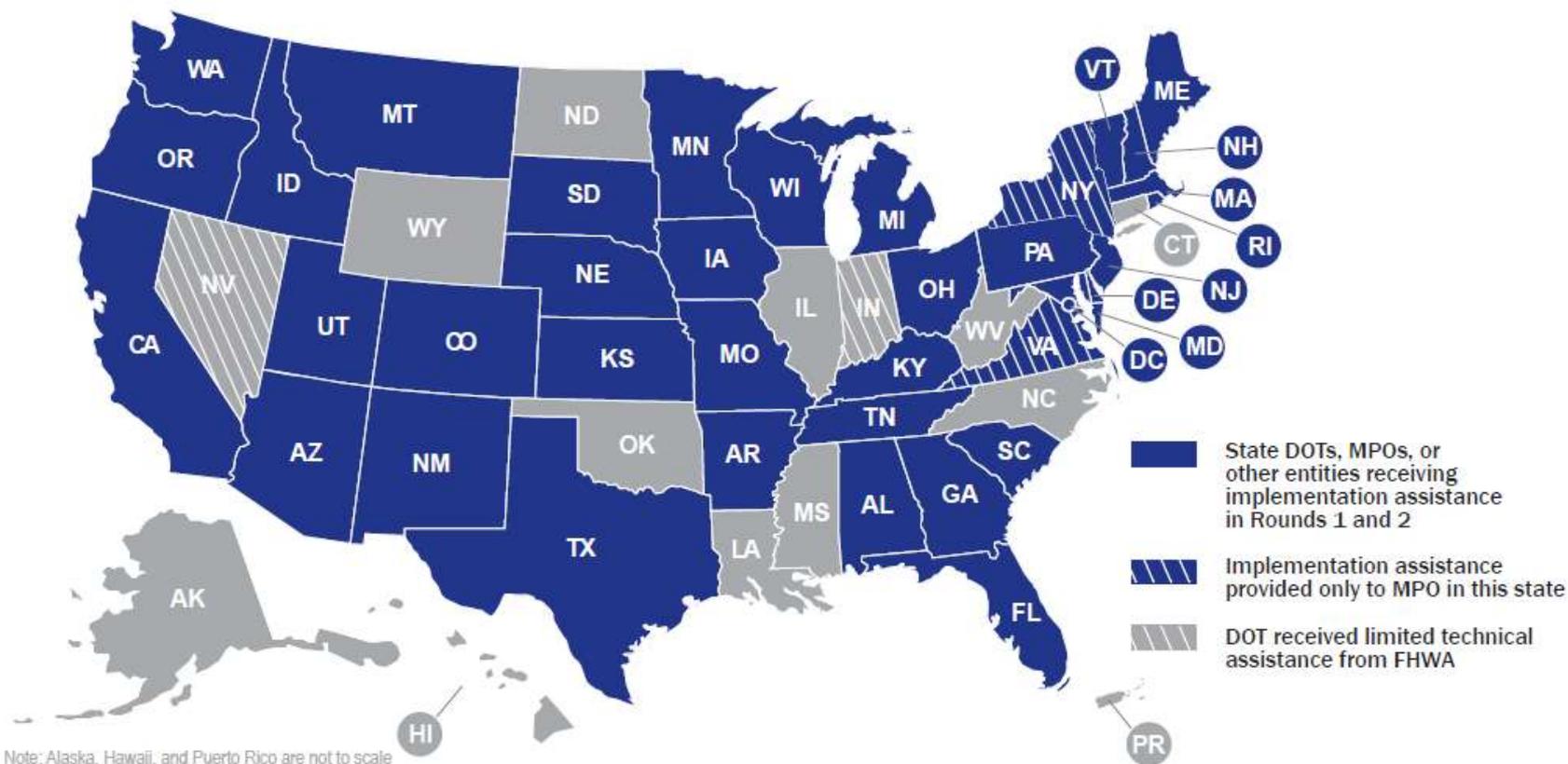
- NDTools - Concrete Bridge Decks
- Fingerprinting construction materials
- Tunnel lining defects
- Asphalt pavement QC
- Pavement delamination
- Pavement smoothness

Utilities and Railroads

- Utility locating technologies
- 3-D Utility location technology
- Practices to expedite DOT/Railroad coordination

Participating States

Transportation Agencies Begin Implementing SHRP2 Rounds 1 and 2 Products – FHWA/AASHTO Implementation Assistance Program



R-23 Pavement Renewal Products

Product

Features



**Pavement Guidelines Tool:
Interactive Decision Matrix**

A web-based application to provide access to products and facilitate use of decision matrix



**Project Assessment
Manual**

A comprehensive guide to data collection and analyses needed for decision-making.



**Best Practices:
Flexible and Rigid**

A key element to long lasting pavements; although, the concept of best practices is not new.



Guide Specifications

Specifications are seldom provided for research focus areas.



**LCCA, Emerging
Technologies**

Not new but packaged for straightforward use and knowledge gain.

FHWA WEBINARS

The logo graphic consists of several white diagonal lines of varying lengths that originate from the top right corner and extend towards the left, creating a sense of motion or a stylized road.

FHWA Internal Webinars

December 2nd, 3:00pm EST

December 4th, 2:00pm EST

FHWA and AASHTO External Product Webinars

December 12th, 2:00pm EST – **(R05) Precast Concrete Pavement**

December 13th, 2:00pm EST – **(R15B) Identifying and Managing Utility Conflicts**

December 16th, 12:00pm EST – **(R02) GeoTech Tools**

December 16th, 2:30pm EST – **(C20) Freight Demand Modeling and Data Improvement**

December 17th, 2:00pm EST – **(R23) Pavement Renewal Solutions (Using Existing Pavement in Place and Achieving Long Life)**

SHRP2 on the Web

- **goSHRP2 website**
www.fhwa.dot.gov/goSHRP2
 - Product details
 - Information about SHRP2 implementation phase
- **SHRP2 @TRB**
www.TRB.org/SHRP2
 - Information about research phase
- **SHRP2 @AASHTO**
<http://SHRP2.transportation.org>
 - Implementation information for AASHTO members

The screenshot shows the SHRP2 Solutions website homepage. The header features the SHRP2 Solutions logo with the tagline 'TOOLS FOR THE ROAD AHEAD' and navigation links for Home, About, Solutions, Your SHRP2, Resources, News & Events, Get Involved, and FAQ. A search bar is located in the top right corner. The main content area is divided into several sections:

- Hero Section:** A large banner with the text 'Save lives. Save money. Save time.' and a description of the second Strategic Highway Research Program (SHRP2) as a coalition of transportation agencies helping the nation's transportation community improve safety, enhance productivity, boost efficiency, and increase reliability by introducing solutions that improve the country's highway network. A 'Read More' link is provided.
- Your SHRP2:** A section with a list of categories: Transportation Agencies, Private Industry, Research Community, and Stakeholders and Users.
- Solution Spotlight:** A featured article titled 'Implementing Eco-Logist' with a sub-headline 'A practical guide to address ecological practices in highway planning' and an image of a bridge.
- Get Involved:** A call-to-action box with the text 'Apply for funding and support to deploy SHRP2 Solutions.'
- SHRP2 Nationwide:** A section with a map of the United States and the text 'Locate SHRP2 Solutions projects in the field.'
- Talking About SHRP2:** A section with a quote: 'If you can keep your treatment assets clean for a longer period of time and push out those major repairs, that you can *save every real dollar.*' and a photo of a worker in a hard hat.
- Tools You Can Use:** A section with the text 'Effective solutions to meet real challenges' and 'GoSHRP2 presents innovations that address the transportation issues you care about. Use the site to discover SHRP2 Solutions, available now or coming soon. We can help save time, money, and lives.' with a wrench icon.
- Resources:** A section with the text 'Webinars, videos, and fact sheets featuring SHRP2 information' and a video player icon.
- Solutions by Focus Area:** A grid of four boxes: Safety (Identifying the behaviors that cause and avert collisions), Renewal (Enabling faster, minimally disruptive, and longer-lasting improvements), Reliability (Choosing predictable travel times), and Capacity (Bringing greater collaboration to road building).



EVERY DAY COUNTS (EDC)

**FASTER – BETTER – SMARTER
ROUND II INITIATIVES**



Selected Innovations (EDC 1)



Round I Technologies



Warm Mix Asphalt (WMA)



The Safety Edge



Geo-synthetic Reinforced Structures (GRS)



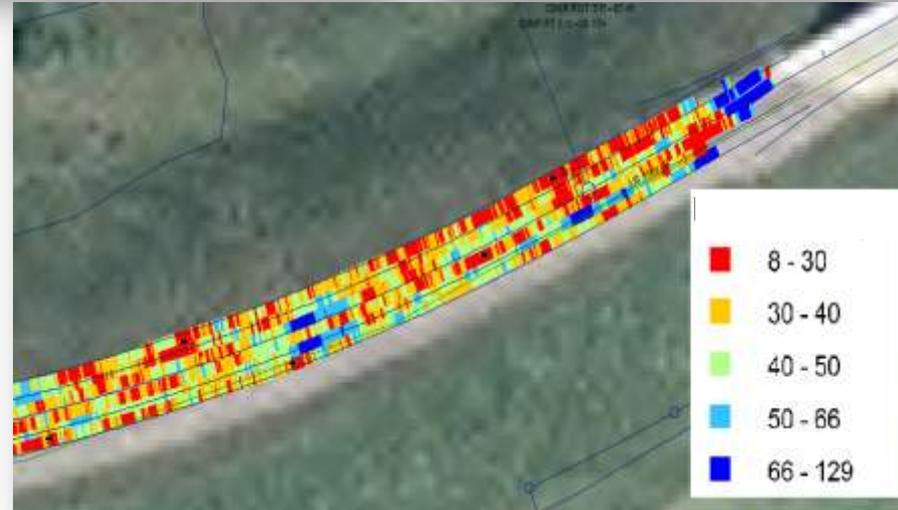
Prefabricated Bridge Elements & Systems (PBES)



Adaptive Traffic Control Systems

EDC 2

Intelligent Compaction



High Friction Surface Treatment

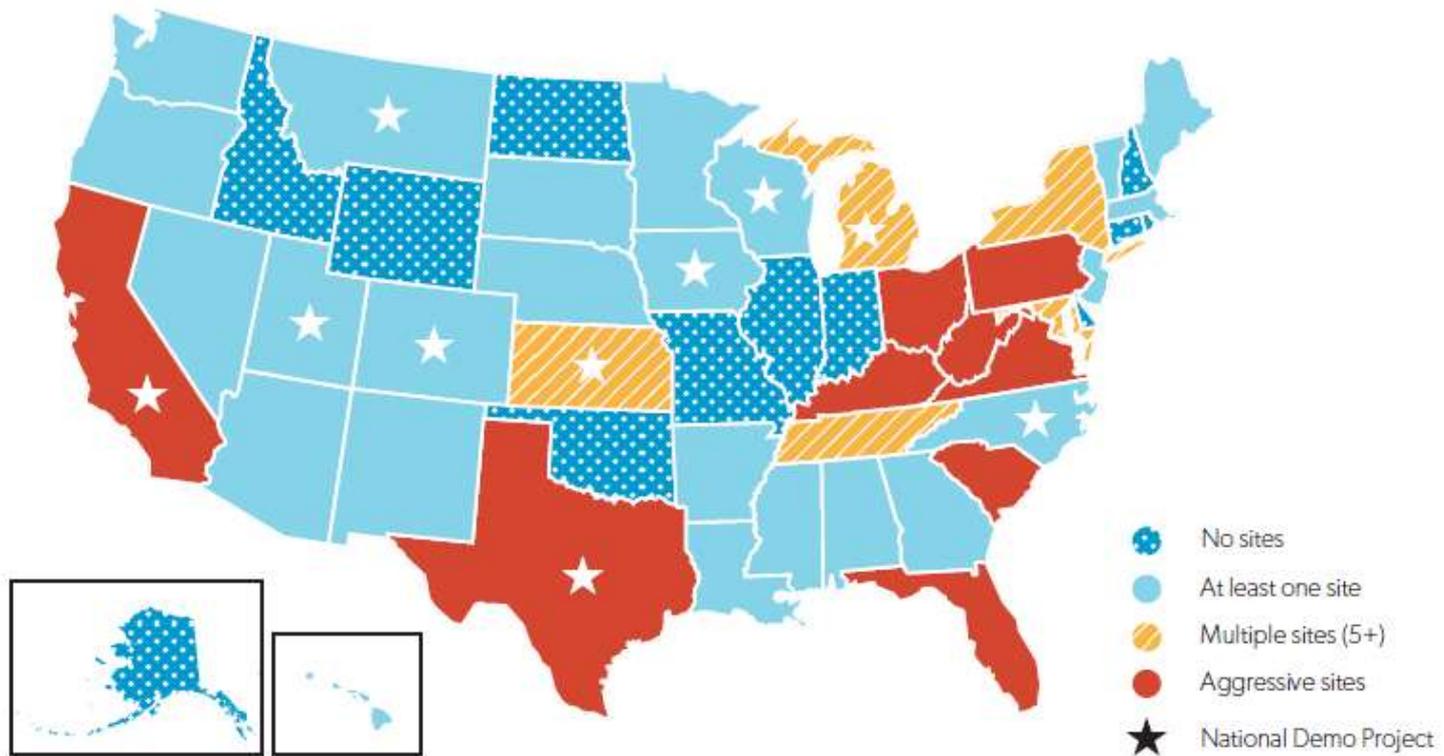


FIGURE 1: High Friction Usage



On To The Next Level

EDC

<http://www.fhwa.dot.gov/everydaycounts/>

THANK YOU



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