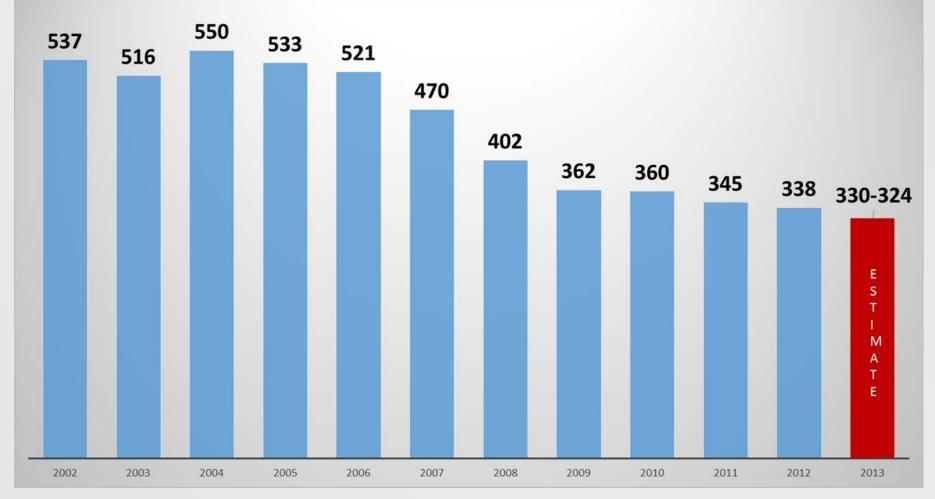


NATIONAL ASPHALT PAVEMENT ASSOCIATION

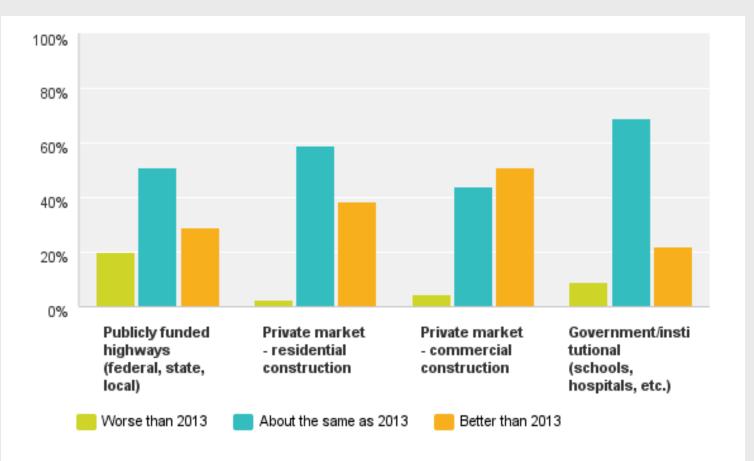
National Perspective on the Asphalt Pavement Industry Jay Hansen Executive Vice President

ASPHALT PAVEMENT TONS





OUTLOOK FOR 2014







- Advance Research & Deploy Innovative Asphalt Technology
- Achieve Significant Progress on PEC Projects
- Strengthen State and National Legislative Support
- Expand Market Share Effort



FHWA-NAPA Cooperative Agreement

FHWA/NAPA COOPERATIVE AGREEMENT

- NAPA has been awarded a \$2.5 million agreement for "<u>Advancement of Innovative</u> <u>Asphalt Technology</u>"
- Partnership provides a mechanism to advance innovative technologies
- Agreement is for 5 years, FY 2014-2018





FHWA/NAPA COOPERATIVE AGREEMENT

- Leverage NAPA's expertise in leading innovation advancement including:
 - Conferences and workshops
 - Presentations at government and industry events
 - Webinars, Publications
 - Surveys for benchmarking



Multimedia tools



FHWA/NAPA COOPERATIVE AGREEMENT

- The innovation team includes:
 - NCAT
 - Texas A&M Transportation Institute
 - Advanced Asphalt Technologies
 - Industry Consultants
 - State Asphalt Pavement Associations











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DELIVERABLES

- The deliverables will include
 - RAP, RAS, WMA Survey for 2013
 - RAP Management Best Practices
 - Recycled Tire Rubber Best Practices
 - Mix Type Selection Guide Update
 - Thin Asphalt Overlays Update
 - LCCA Webinar







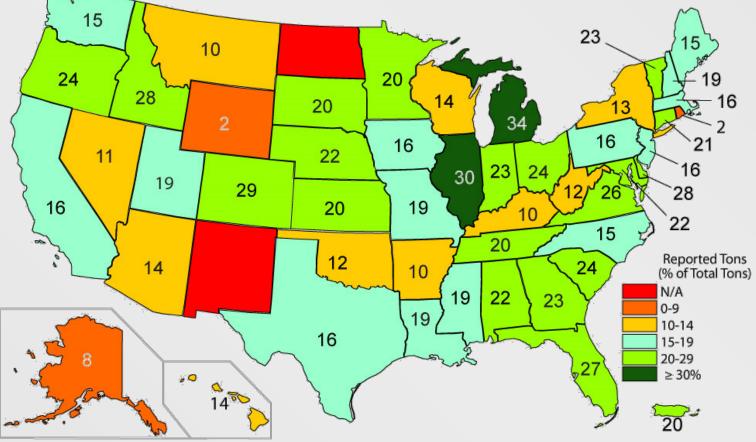




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RAP USE IN THE US - 2012

Pavement Economics Committee (PEC)



PAVEMENT ECONOMICS FUND

Six NAPA-SAPA Task Groups

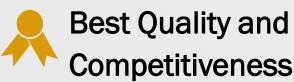
\$1 Million Program Funded by NAPA & SAPAs with 100% SAPA Participation







Six NAPA-SAPA Task Groups





Environmental Sustainability





Pavement Preservation



Pavement Type Selection





PEC DELIVERABLES

Examples of PEC Projects

- Optimize Pavement Design & Materials
- Enhance Life Cycle Assessment Software to Include Pavement Smoothness
- Unintended Consequences of Reflective Pavements
- Develop Thinlays with High Recycled Content
- Prevent Passage of Pavement Type Mandates





UHI – UNINTENDED CONSEQUENCES

Unintended Consequences

A Research Synthesis Examining the Use of Reflective Pavements to Mitigate the Urban Heat Island Effect

by Jiachuan Yang; Zhihua Wang, Ph.D.; and Kamil E. Kaloush, Ph.D., P.E. Arizona State University National Center of Excellence for SMART Innovations





UHI – UNINTENDED CONSEQUENCES



SURFACE TEMPS

DIFFERENCES IN SURFACE TEMPERATURES HAVE MINIMAL BEARING ON A R TEMPERATURE

SUMMER REFLECTED RADIATION CAN INCREASE COOLING OADS FOR SURROUNDING

BUILDINGS IN THE SUMMER.

WINTER LIGHT-COLORED PAVEVENTS REQUIRE MORE DEICING CHEMICALS IN WINTER TO CONTROL SNOW AND ICE.

PEDESTRIANS

REFLECTIVE PAVEVENTS CAN BOOST THE TEMPERATURE FEDESTRIANS EXPERIENCE BY 3º TO 5º CELS US, AS WELL AS INCREASE ULTRAVIOLET RADIATION EXPOSURE.





PAVEMENT ASSOCIATION Sarce Sing J, Xing Z, and Kalcoli H. 2013. Landon et consequences A reserved symbols assessing the constraints to minipate theorem and stand offset. A reserved symbols in the constraints in the Part of Sectors National Sectors of Sectors in Sectors and Sector

NATIONAL ASPHALT



RESEARCH PROJECT SUMMARY

JANUARY 2014







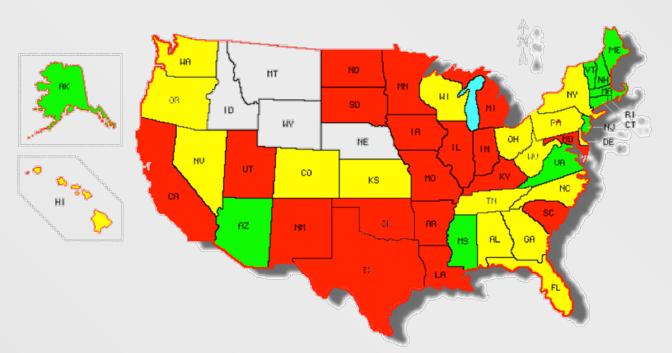
NATIONAL ASPHALT



INCREASED PRESURE FROM PCC INDUSTRY

Competitive Environment with PCC

- 🔴 Very Competitive
- 😑 Competitive
- 😑 Not Competitive





LCCA ISSUES IN WASHINGTON

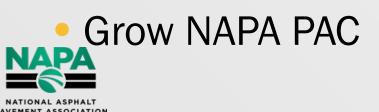
- MAP-21
 - Mandate LCCA, A-B and MEPDG
 - GAO Study, FHWA Updating LCCA Guidance
- Financial Services Appropriations Bill
 - Mandate Material-Specific Discount Rates
- Water Resources Development Act
 - Mandate LCCA on Corps Projects
- Surface Transportation Reauthorization



 Mandate LCCA on all Federal-aid Highway Projects

STRENGTHEN STATE & NATIONAL LEGIS. SUPPORT

- Implemented State Legislative Tracking System
- Strengthened Staff and Hired Lobbyist Firm
 - Michele Stanley and Whitmer & Worrall
- Advocacy Handbook Completed
- Plant/Project Tours & Constituent Meetings
- Conducted First Asphalt Fly-In





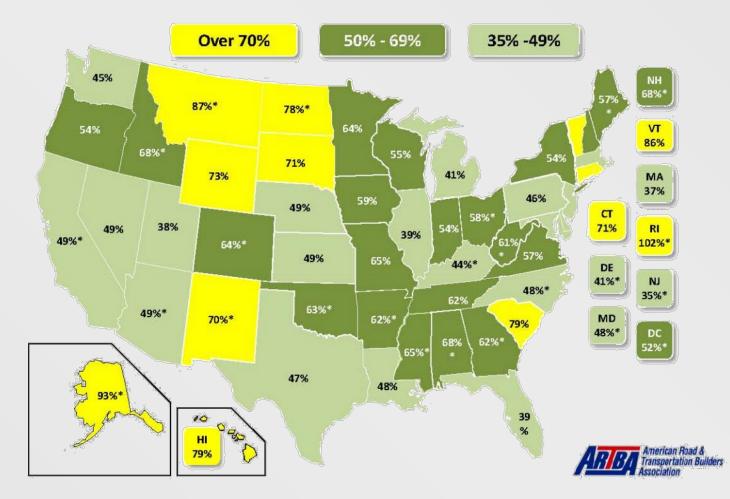


Pavement design issues should be left to state highway engineers





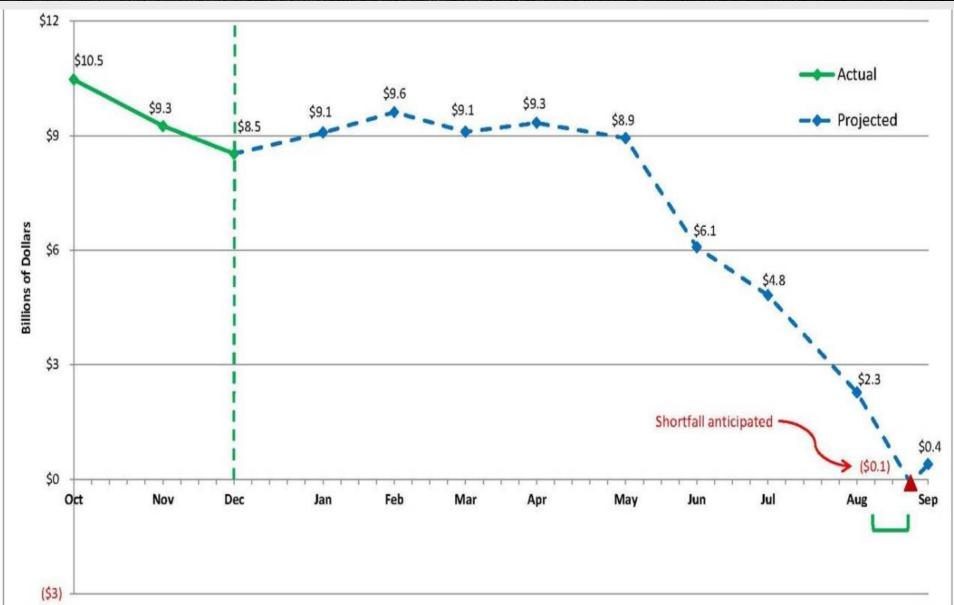
FEDERAL SHARE OF HIGHWAY FUNDING



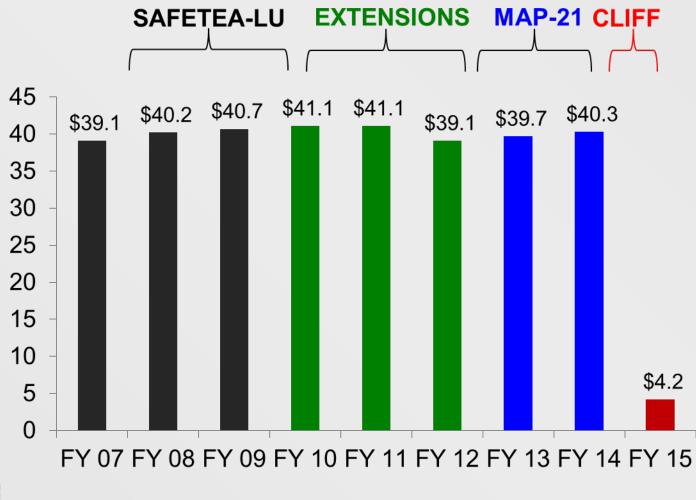


ON AVERAGE, FEDERAL FUNDING REPRESENTS 52% OF STATE DOT HIGHWAYSPENDING

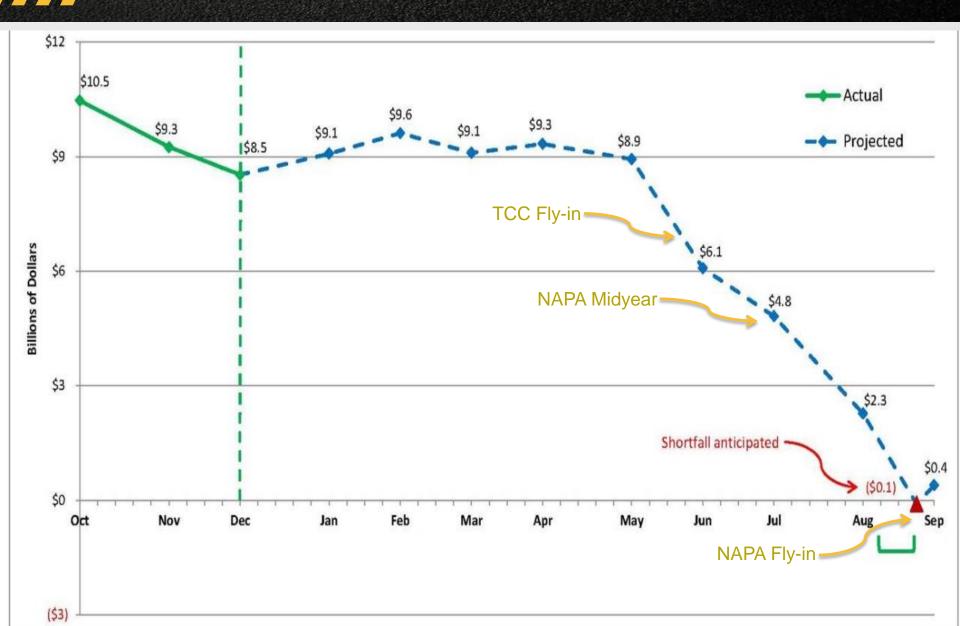
SOLVE HIGHWAY TRUST FUND CHALLENGE



FEDERAL-AID HIGHWAY FUNDING IN 2015



HTF BALANCE THRU 2014



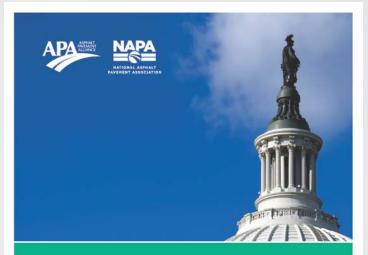
Highway Funding Key Message

 Urge Congress to swiftly enact a six-year, user-fee funded Surface Transportation Authorization bill to stabilize and grow the Highway Trust Fund.



BECOME AN ASPHALT AMBASSADOR

- Plant Tours
- District Meetings
- Letter to the Editor
- Participate in Fly-In



HANDBOOK FOR STATE LEGISLATIVE ADVOCACY A GRASSROOTS STRATEGY FOR PROMOTING ASPHALT PAVEMENTS





Expand Market Share

GO-TO-MARKET PLAN

- Expand Program
- Increase Financial Support
- Leverage Strengths of All Industry Resources – NAPA, SAPAs, APA, NCAT, Al
- Leverage the Power of the Asphalt Industry's Grassroots



GO-TO-MARKET PLAN DEVELOPMENT

- Agreement with Edelman
- Guided by Market Research
- Media Analysis
- Leverage PEC Projects







Qualitative and Quantitative research, measure attitudes, and opinions

- State DOTs, design/build firms, tollways, public works, engineering firms
- In-Depth Interviews
- Online survey distributed to 650+ respondents
 - 221 responses received





INDUSTRY PERCEPTIONS

The asphalt pavement industry is considered an important partner helping to address the issues facing agencies today.

- Pavements are a significant investment for agencies and they look to the industry as technical experts
- The asphalt industry is viewed positively
- Respondents are particularly interested in the cost effective advancements in pavement technologies

Decisionmakers pay attention to Stakeholders (Drivers)

NEXT STEPS



Construction Smoothness Noise

Intro

Safety Susta

inability Innovation

America depends on high-performing, safe roads.





NAPA MEMBERSHIP

- Three reasons why you should join.
 - 1. NAPA's professional staff become extensions of your staff.
 - 2. NAPA is always on the cutting edge of technology and thus NAPA members are typically more competitive than non members.
 - 3. NAPA protects your investment by making sure you have a market to operate effectively in.



TOGETHER! WE WILL WIN THIS BATTLE NATIONALLY WE WILL WIN THIS BATTLE LOCALLY











QUESTIONS

2014 Midyear Meeting: July 14 – 16, Nashville NAPA Asphalt Fly In: September 9 – 10, 2014 Young Leaders Conference: Fall 2014 2015 Annual Meeting: January 25 – 28, Marco Island

2014 UPCOMING NAPA EVENTS 2015

NAPA's meetings are renowned for their educational content—ideas that attendees can take home and use directly to make their businesses grow. They are also the asphalt industry's premier gathering places, with unique networking and forums for information exchange.

NATIONAL ASPHALT PAVEMENT ASSOCIATION

Questions? Call (888) 468-6499

WWW.ASPHALTPAVEMENT.ORG