

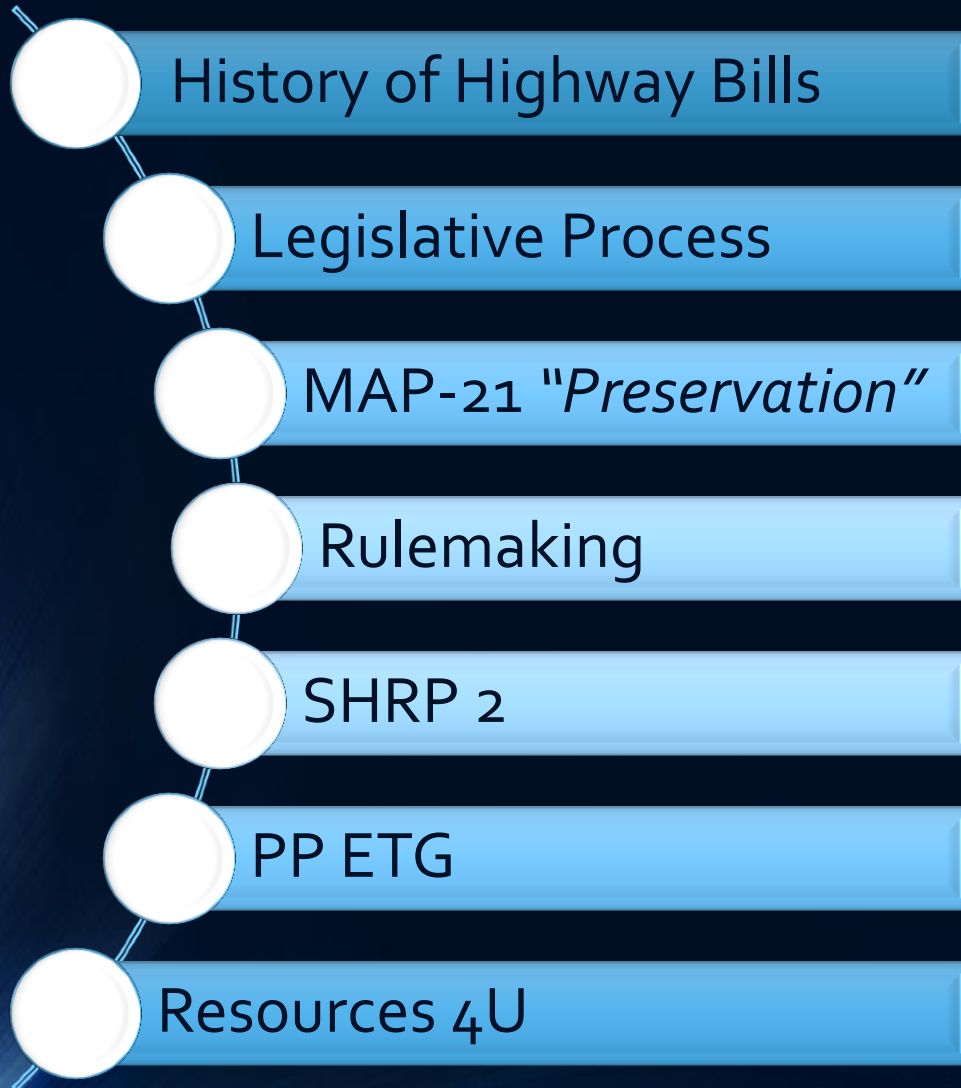


National Updates & Discussion: MAP-21

THOMAS HARMAN, MANAGER
FEDERAL HIGHWAY ADMINISTRATION
OFFICE OF TECHNICAL SERVICES –
RESOURCE CENTER



Our Visit Today...





History of Highway Bills

1956 TO TOMORROW...

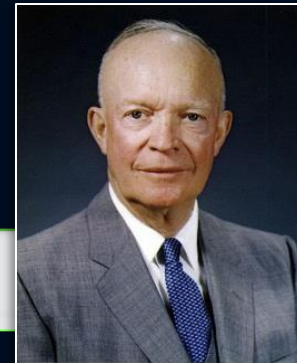
Q. *"What year was the Interstate Highway System completed?"*

- A. 1981
- B. 1987
- C. 1991
- D. 1996
- E. Still working on it





History of Highway Bills



1956

- Federal-Aid Highway Act

- ...Highway Only Bills

1982

- Surface Transportation Assistance Act

1987

- Surface Transportation & Uniform Relocation Assistance Act

1991

- Intermodal Surface Transportation Efficiency Act (**ISTEA**)

Thomas "Chief" MacDonald

1998

- Transportation Equity Act for the 21st Century (**TEA-21**)

2005

- Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (**SAFETEA-LU**)

2012

- Moving Ahead for Progress in the 21st Century Act (**MAP-21**)

2009
ARRA

US Highway Trust Fund, 2013

Pay-as-You-Go Fund

- Revenue from the Federal Fuel (Highway-User) Tax
 - 18.4¢ per gallon of gasoline
 - 24.4¢ per gallon of diesel fuel
 - General Fund Transfers (2008, 2009, 2010, 2012)
- FY2013 - Three Accounts in HTF:
 1. Highway Account, (15.44¢ per gallon of gasoline)
 2. Mass Transit, (2.86¢ per gallon of motor fuel)
 3. Leaking Underground Storage Tank (LUST), (0.1¢ per gallon of motor fuel)
 - 1986 Act amend - Solid Waste Disposal Act under EPA



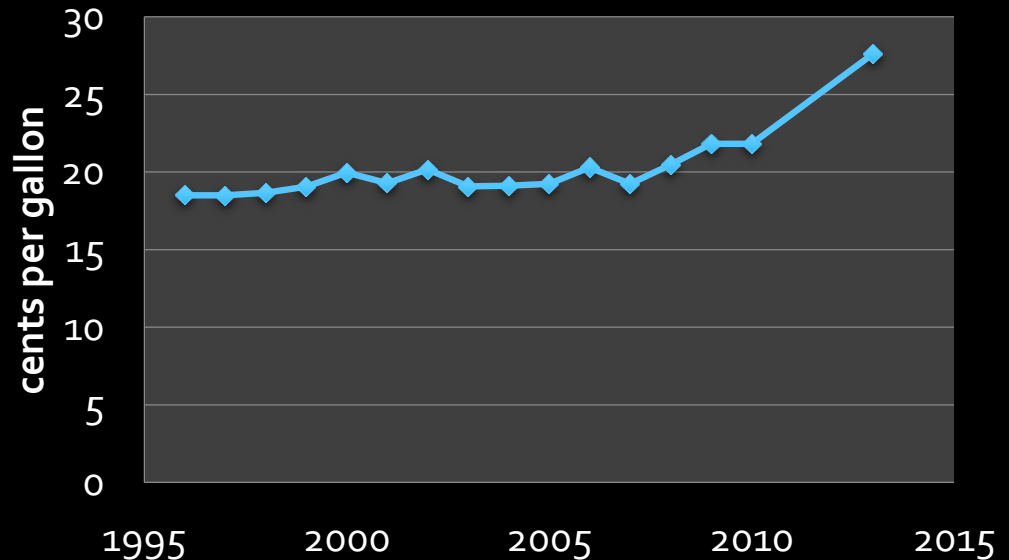
Revenue from State Fuel Tax

Not always dedicated to Roadways

2013 Taxes/Fees	Gas (cpg)	Diesel (cpg)
Ave. US	27.6	33.8
High	51.2	61.1
Low	8	14



Gas Tax State Trend



Highway Trust Fund

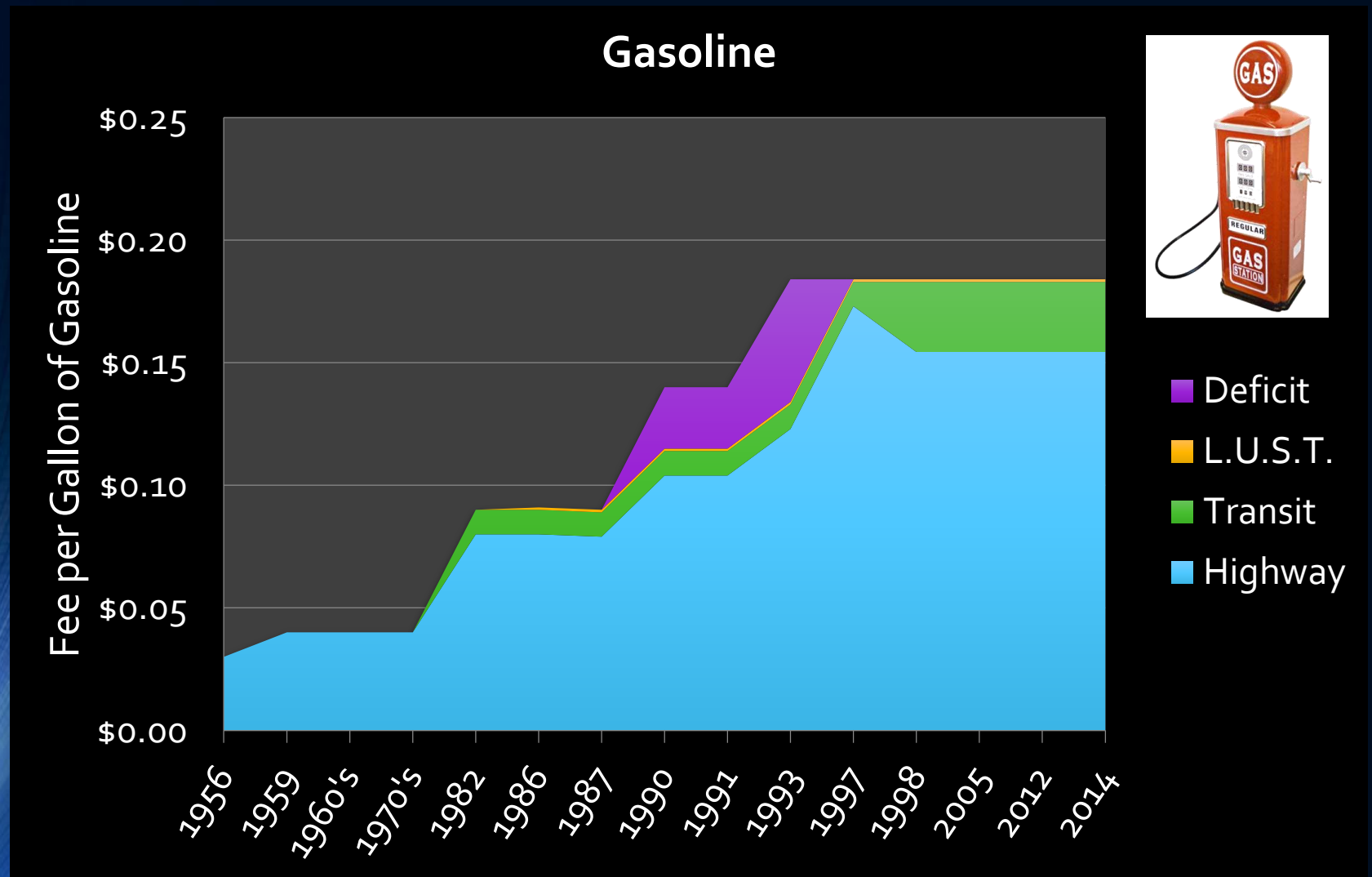


Q. *"Under which US President was the **gas tax** last increased?"*

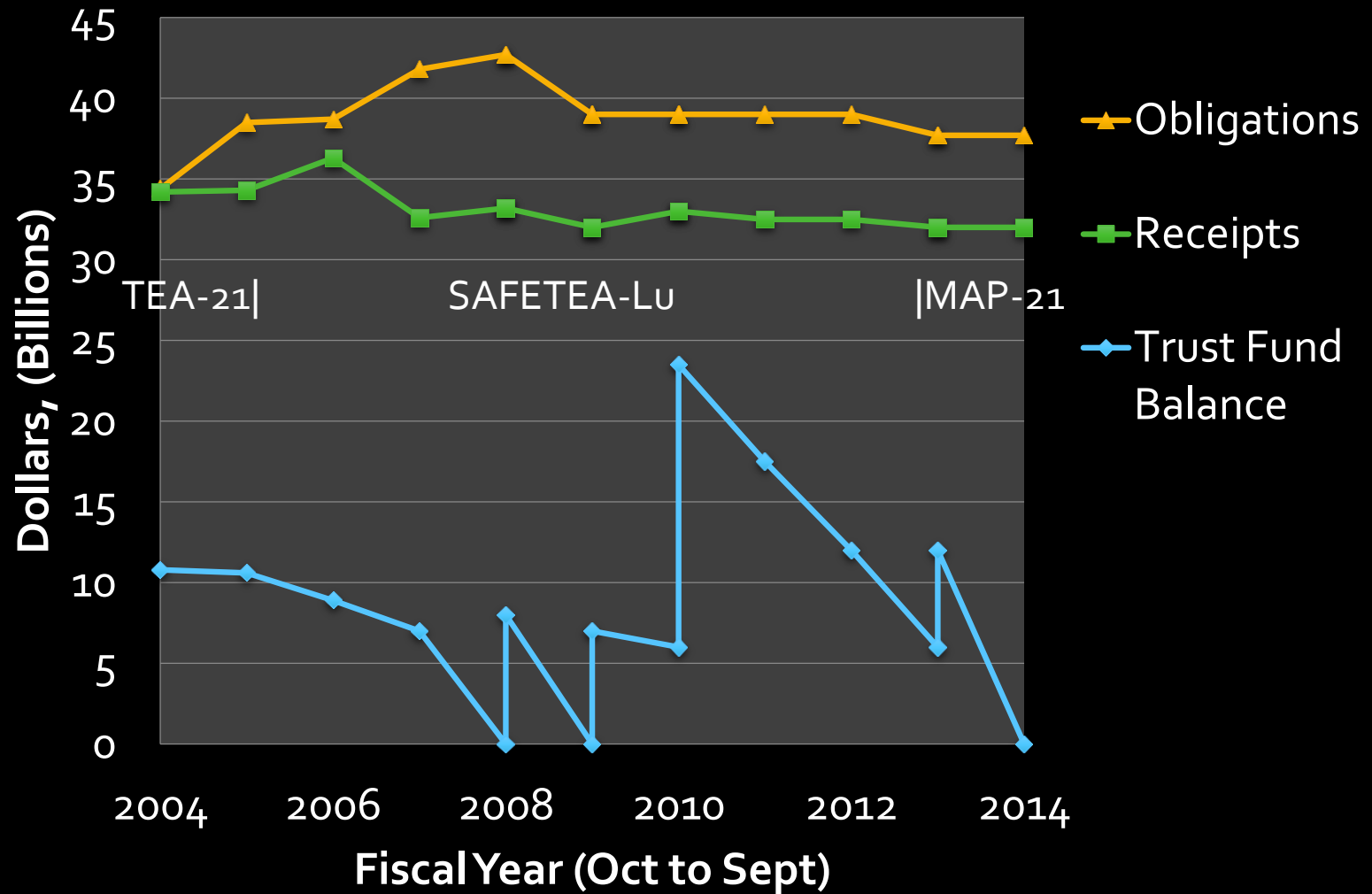
- A. Jimmy Carter
- B. Ronald Reagan
- C. George H. W. Bush
- D. Bill Clinton
- E. George W. Bush



History of Federal Highway-User Tax



Highway Trust Fund





Legislative Process

FHWA OFFICE OF POLICY & GOVERNMENT AFFAIRS
[HTTP://WWW.FHWA.DOT.GOV/POLICY/](http://www.fhwa.dot.gov/policy/)

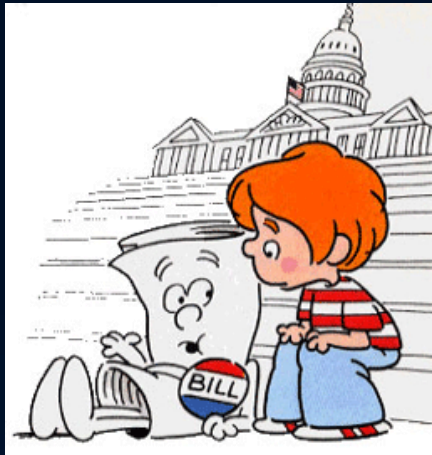
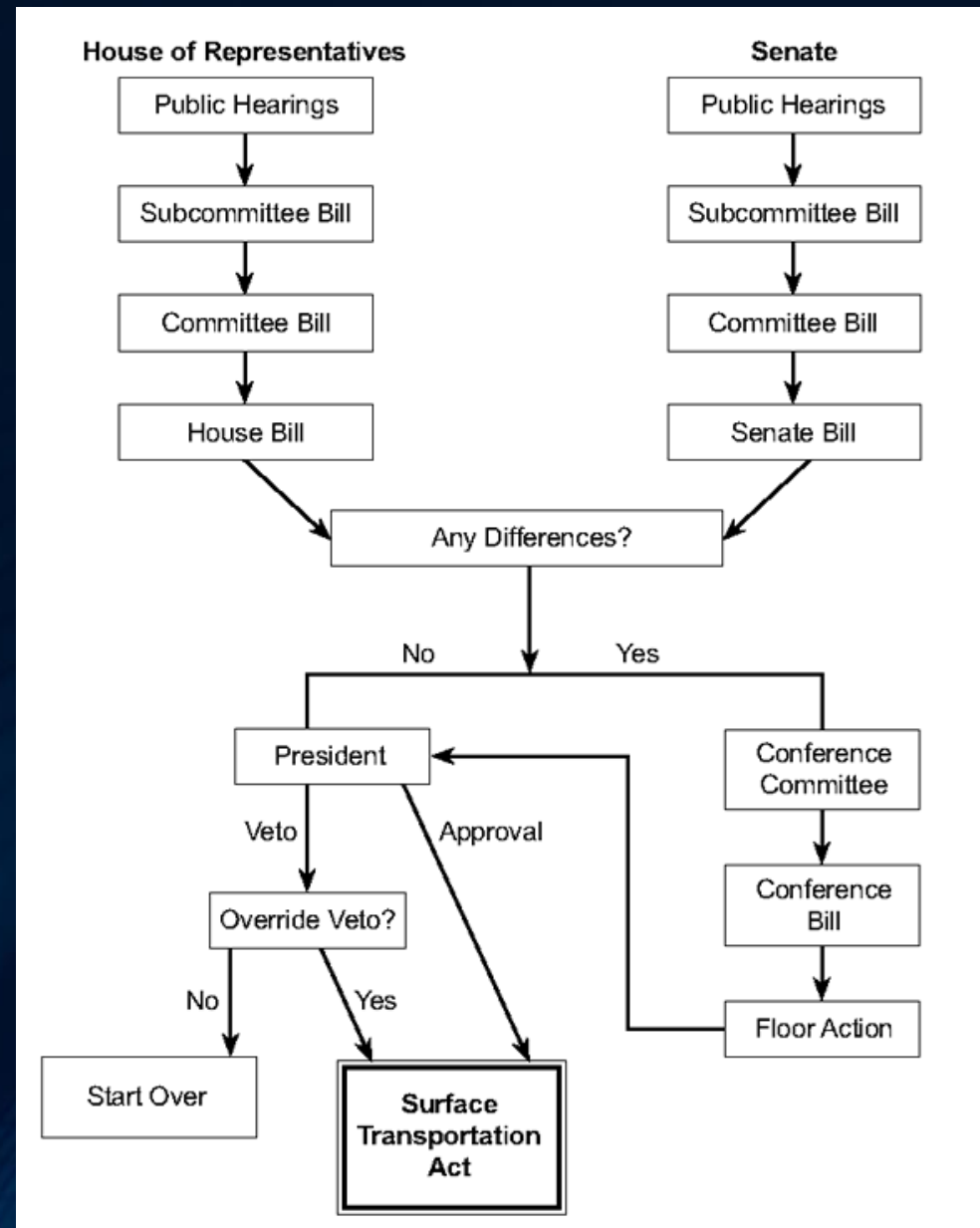


Figure 1.
Congressional
Procedures
(*simplified,
typical process*)

Office of
Policy &
Government Affairs



Current Congressional Committees/Chairs for Transportation



U.S. HOUSE OF REPRESENTATIVES



- COMMITTEE ON
TRANSPORTATION AND
INFRASTRUCTURE

- Bill Shuster (PA)



- SUBCOMMITTEE ON
HIGHWAYS AND TRANSIT

- Thomas E. Petri (WI)



- Committee on Ways and
Means

- Dave Camp (MI)

U.S. SENATE



- COMMITTEE ON
ENVIRONMENT & PUBLIC
WORKS

- Barbara Boxer (CA)



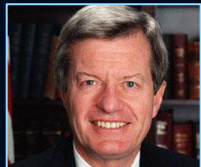
- APPROPRIATIONS SUBCOMMITTEE
ON TRANSPORTATION, HOUSING,
AND URBAN DEVELOPMENT, AND
RELATED AGENCIES

- Patty Murray (WA)



- COMMITTEE ON FINANCE

- Max Baucus (MT)





MAP-21

"PRESERVATION" & PAVEMENTS

~~Re~~Authorization of Highway Legislation



- MAP-21 –
Moving Ahead for Progress in the 21st Century Act

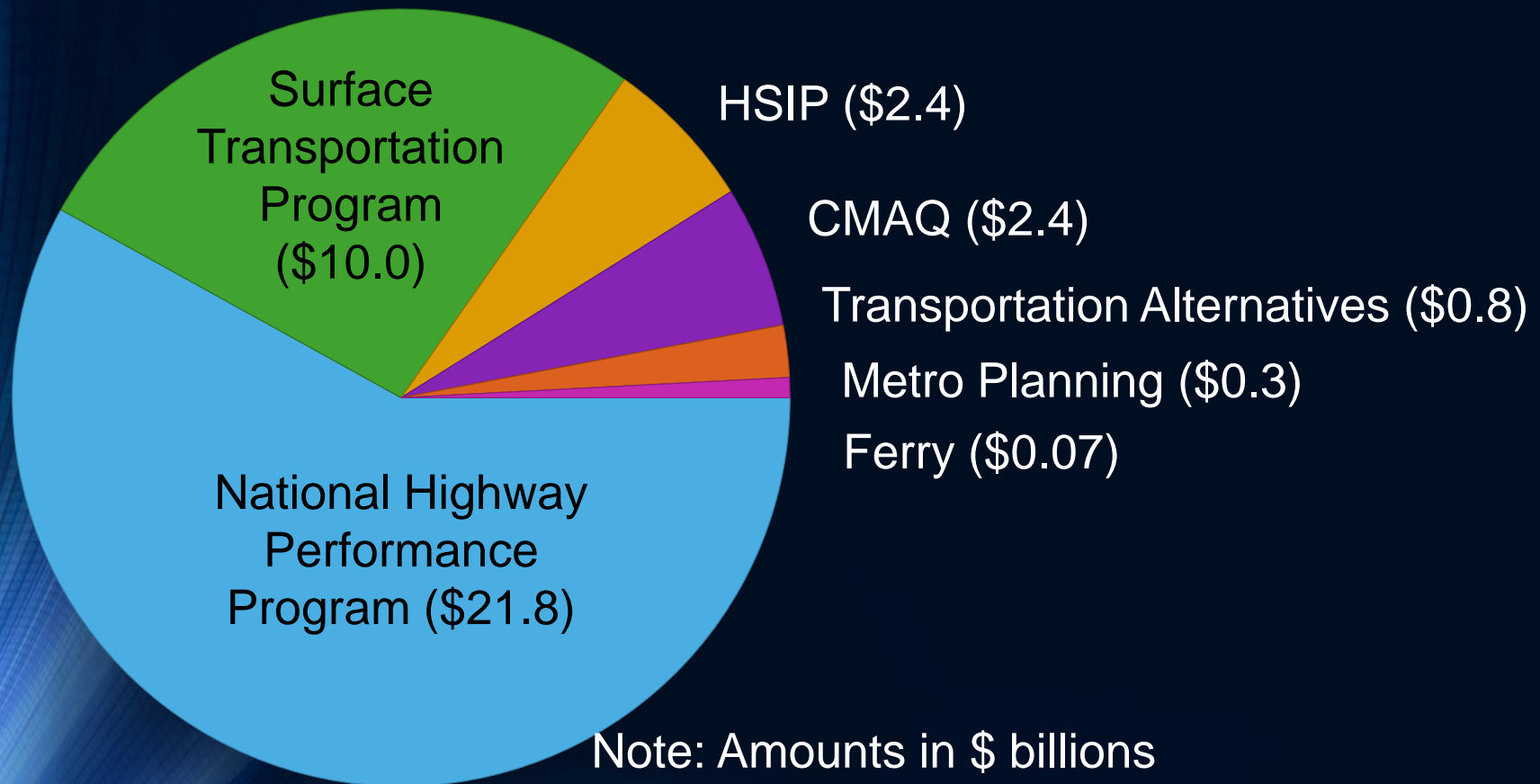


MAP-21

Four “Core” Programs



\$37.7 Billion/Year in formula funding



MAP-21, Pavements Program

- Deployment and R&D Programs are separate
 - Past legislation: Innovative Pavement Research and Deployment Program (IPRD)...
- Designated program for *Accelerated Implementation and Deployment of Pavement Technologies* (AIPT)
- Funding level: \$12.0 million per year



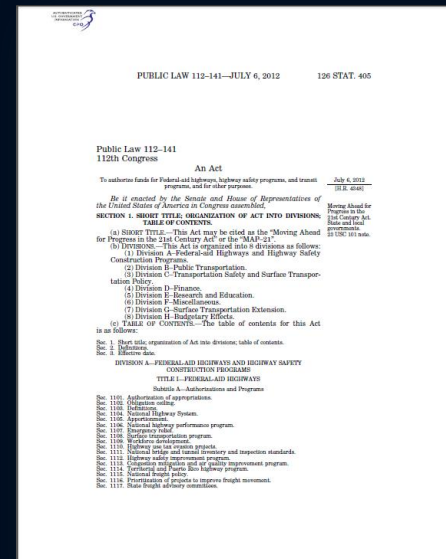
MAP-21, Pavement Program -AIPT

- Collaborative effort with State DOTs
- Leveraging of Resources
- Expert Task Groups (Stakeholder Engagement)
- Industry Input



MAP-21 Preservation FAQ's

- The word “Preservation” appears 35 times in the Law:
 - 3 Contexts: **System (24)**, Historic (8), & Policy (3)
- § 1103. DEFINITIONS
 - (a)(3)“(2) **Asset management**. – the term includes **preservation**...
 - (a)(4)(B)“(C)(ii) (ii) by striking “and rehabilitation” and inserting “rehabilitation, and preservation”



MAP-21 Preservation FAQ's



- § 1104. NATIONAL HIGHWAY SYSTEM
 - (a)“(c) Interstate System. --
 - (a)“(c)“(5)(C)(ii) Construction... does not prohibit a State from carrying out construction, maintenance, **preservation**, restoration, or rehabilitation activities for a portion of the **Interstate System**...
- § 1106. NATIONAL HIGHWAY PERFORMANCE PROGRAM.
 - (a)“(d) Eligible Projects. —
 - (a)“(d)“(2)“(A)... preservation...

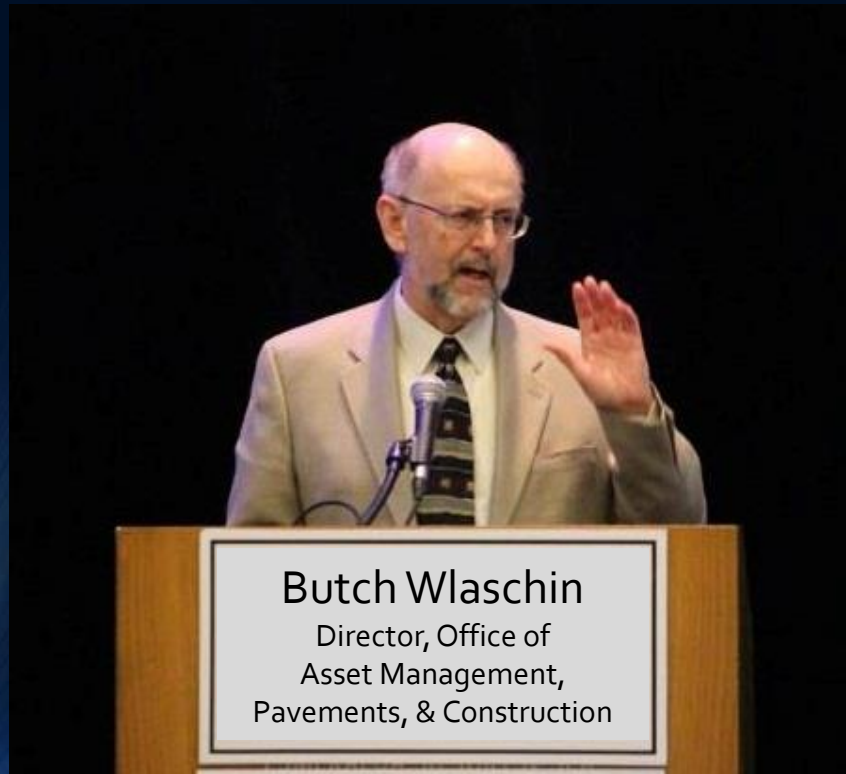
MAP-21 Preservation FAQ's



- § 1108. SURFACE TRANSPORTATION PROGRAM.
 - (a) **Eligible Projects**.--Section 133(b) of title 23, United States Code, is amended—
 - (a)(4)“(1) Construction... and (2) Replacement... **preservation included**.



"...to insure success we need to have the right treatment, at the right time and right place, using the right people and equipment..."



Butch Wlaschin
Director, Office of
Asset Management,
Pavements, & Construction



MAP-21

"SECRETARY SHALL ESTABLISH..." (37 TIMES)
RULEMAKING

Administrative Procedure Act (APA)

Pub.L. 79-404, 60 Stat. 237, enacted June 11, 1946

MAP-21 Requirement: 18 months

1

- Provides for public notice and opportunity for comment on proposed rules,

2

- Requires an agency to explain the basis and purpose for its rule, and

3

- Provides for judicial review of the agency's actions.



Rulemaking FHWA Stakeholder Outreach

- Many Methods:
 - Webinars
 - National Online Dialogues
 - Virtual Town Hall Meetings
 - Subject Matter Meetings
 - Direct Contact to FHWA





Asset Management Requirements in MAP-21

POC: STEPHEN GAJ
LEADER, ASSET MANAGEMENT TEAM
OFFICE OF ASSET MANAGEMENT,
PAVEMENTS, AND CONSTRUCTION



DRAFT Rule with Office
of Chief Counsel

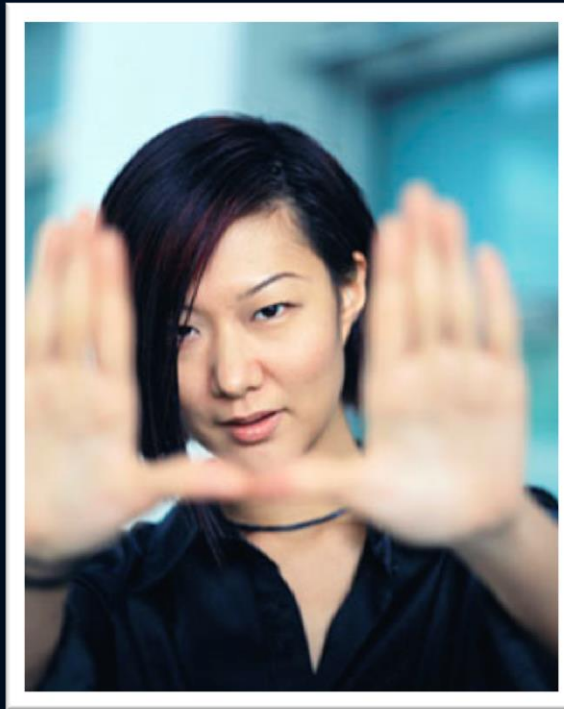
INFRASTRUCTURE CONDITION

- *Maintain the highway infrastructure asset system in a **state of good repair**.*



What is asset management?

Asset management is a strategic and systematic process of operating, maintaining, and improving physical assets, with a focus on economic analysis information, to sequence of preservation, repair, replacement actions and sustain a good repair over assets at minimum engineering and based upon quality identify a structured maintenance, rehabilitation, and that will achieve desired state of the lifecycle of the practicable cost.



(23 U.S.C. 101(a)(2), MAP-21 § 1103)

What does MAP-21 require Us to do?

Enhanced NHS ~ 220,000 miles

- ✓ Interstate
 - ✓ All principal arterials
 - ✓ Intermodal connectors
- STRAHNET -- important to U.S. defense

§1104; 23 USC 103

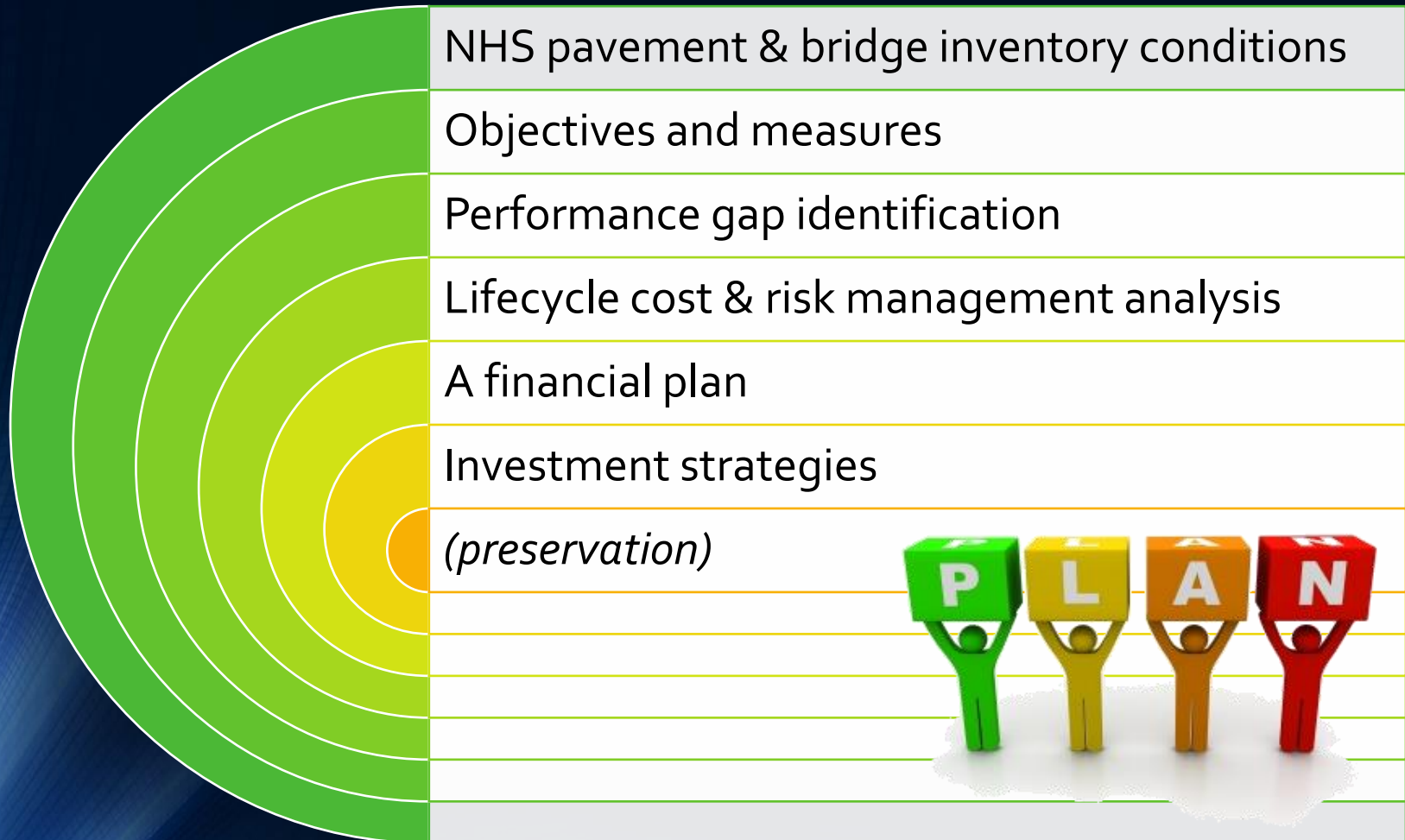
- We (USDOT) will issue a regulation (*aka rule*) on the process & requirements of a **risk-based, asset management plan** for the enhanced National Highway System (NHS) (*) (*Rulemaking*)
- You (State DOT's) will develop a Plan (*)

*(23 U.S.C. § 119(e)(8), MAP-21 § 1106),
Within 18 months of enactment (4/1/14)

** (23 U.S.C. 119(e)(1), MAP-21 § 1106)

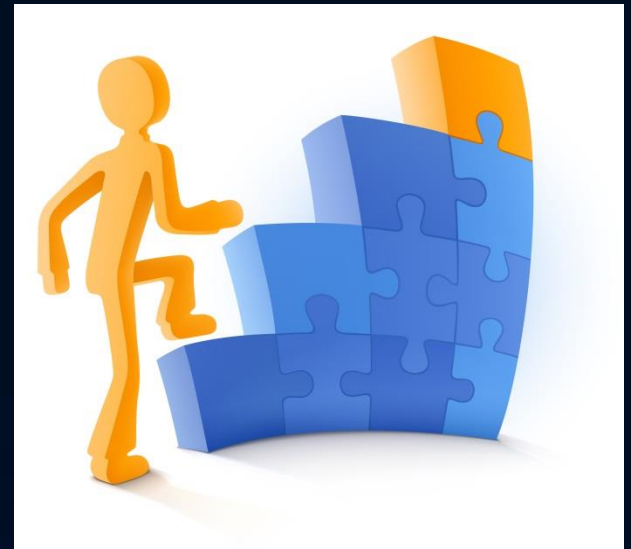


What will your Plan include?



When do you need your Plan?

- We (USDOT) will establish the process by April 1st 2014.
- You (State DOTs) will develop a Plan by the 2nd fiscal year (*September 30th 2014*).



What will we do to certify your Plan?

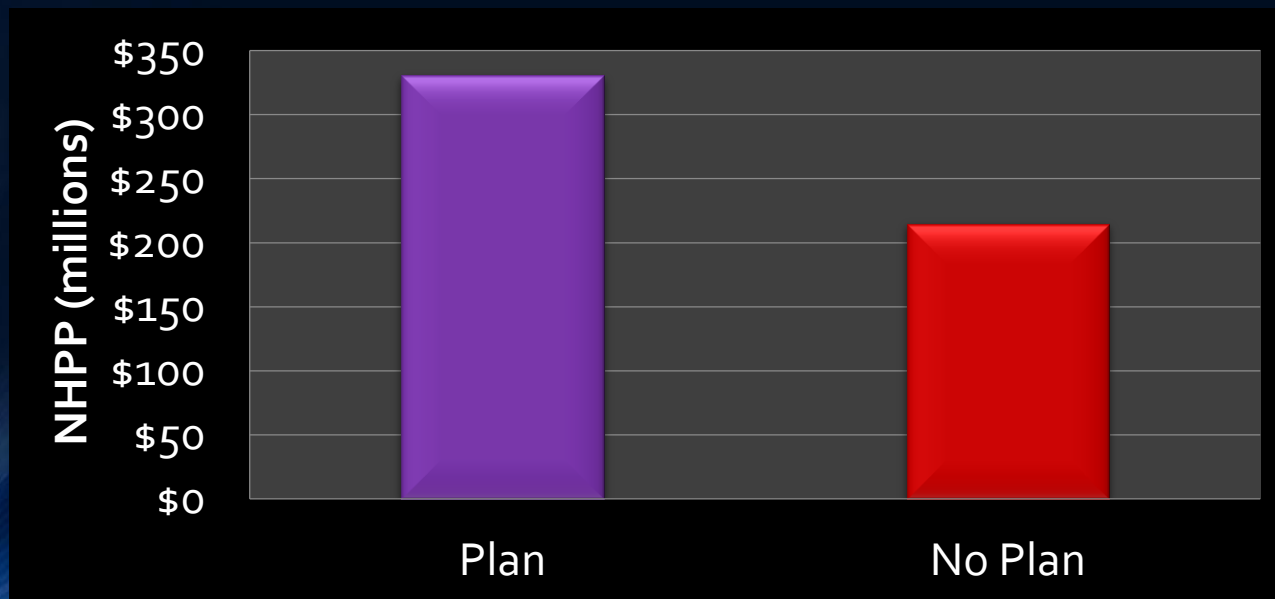
- We will develop a certification process
 1. We (USDOT) have a 90 days review period, and...
 2. You (State DOTs) have 90 days to cure deficiencies - if not certified



What happens if you don't have a Plan?



- Your (State DOTs) federal share for NHPP will be reduced to 65%
- NHPP is 58% of the Program
- No Plan \approx 20% in federal-aid share
- Ex. MD SHA
 - NHPP FY13 = \$330,464,636, reduced to \$214,802,013



The Plans focuses on National Highway Performance Program

- ✓ We will recertified you Plans every 4 years





MAP-21 Pavement Performance – NHPP *(more Rulemaking)*

POC: THOMAS VAN
ASSET MANAGEMENT TEAM
OFFICE OF ASSET MANAGEMENT,
PAVEMENTS, AND CONSTRUCTION

Pavement Measures | Metrics

- Functional (**GIVEN**)

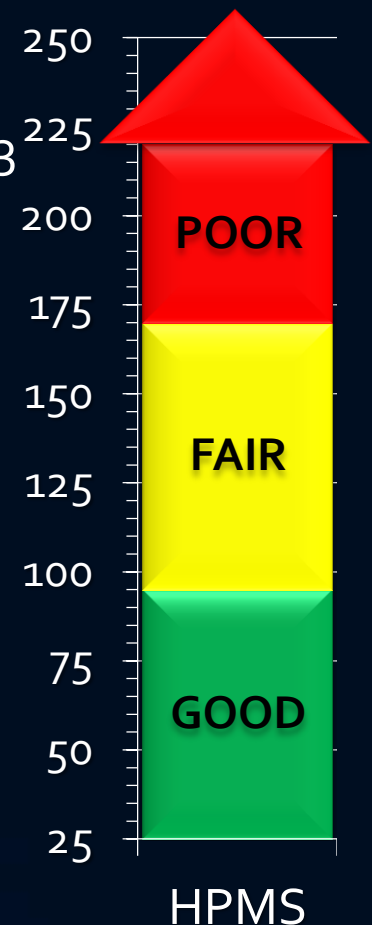
1. International Roughness Index (IRI), AASHTO R₄₃

- Structural (**DRAFT**)

2. Cracking
3. Rutting (Asphalt)
3. Faulting (Concrete)

- Metric (*Composite*): Good | Fair | Poor

- 2 out of 3 POOR = POOR



TPM Pavement Goal



- We (FHWA) will establish measures for you (State DOTs) to assess condition of the Interstate & the enhanced NHS...
- With minimum Standards for the Interstate ONLY
 - Example ONLY: Max 7 ½ % of Interstate in POOR
 - Current 27 States have > 10% of their Interstate in POOR condition based on IRI (>170 in/mile) only (1 out of 3)



SHRP 2

RENEWAL – R26



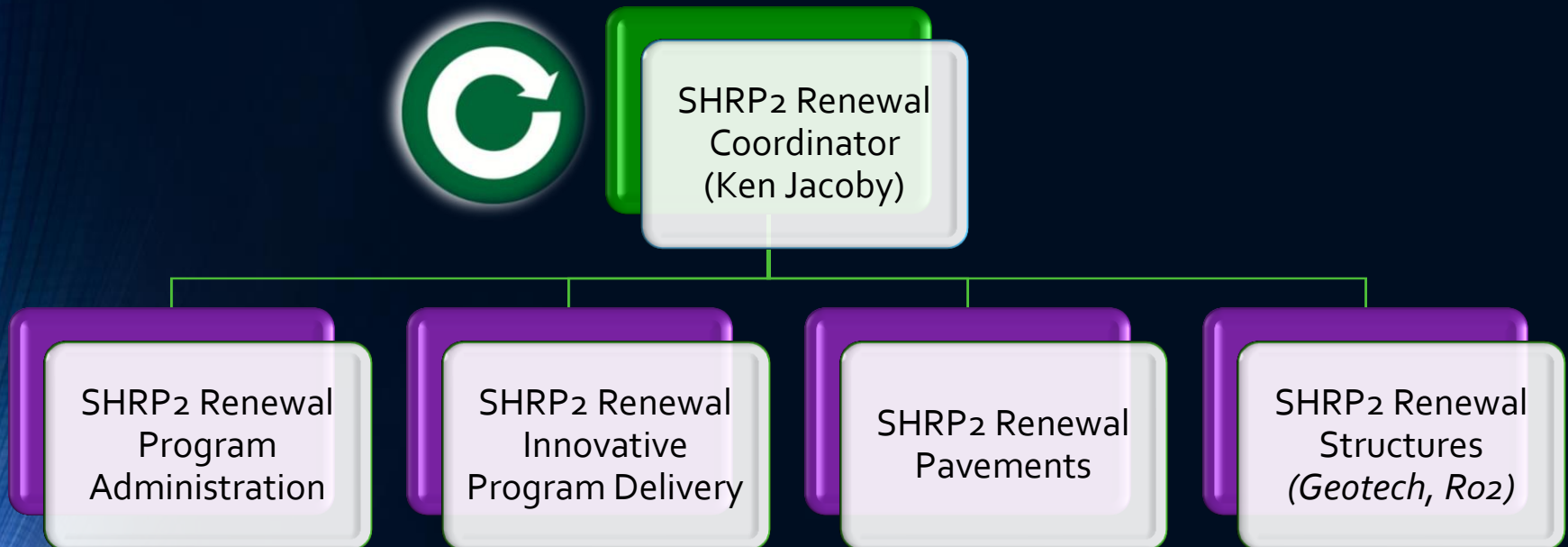


SHRP 2 Research Program Framework





SHRP 2 FHWA Renewal Implementation Team



– Renewal *Current Activities*



R04

- Innovative Bridge Designs for Rapid Renewal

R09

- Managing Risk in Rapid Renewal Projects

R10

- Innovative Strategies for Managing Complex Projects

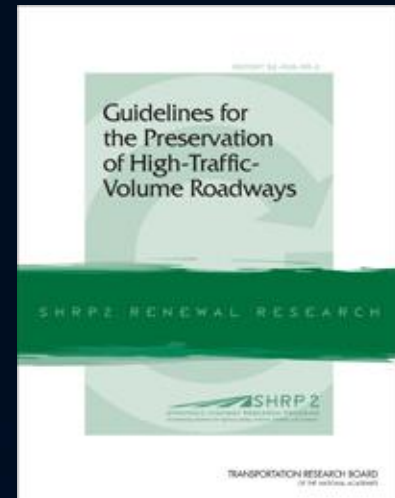
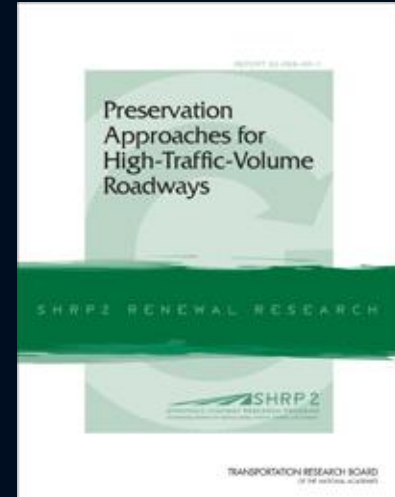
R26

- Preservation on High-Volume Roadways (Thomas Van)

Pavements

Preservation on High-Volume Roadways

- We asked for States to participate (Go SHRP2)
- We received over a dozen applications
http://www.fhwa.dot.gov/goshrp2/Solutions/all/R26/Preservation_Options_for_LongLife_Pavements/
- We will announce participants in the next week or so... Projects this summer! (\$100-\$120k/each)
- Thomas is setting up a BIG marketing and promotional program to support effort
- We are coordinating very closely with AASHTO & TRB!
- Link for Guidelines:
<http://apps.trb.org/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=2176>





FHWA Pavement Preservation

EXPERT TASK GROUP (PP ETG)

Pavement Preservation ETG last meeting – May 3&4 2011 in OK

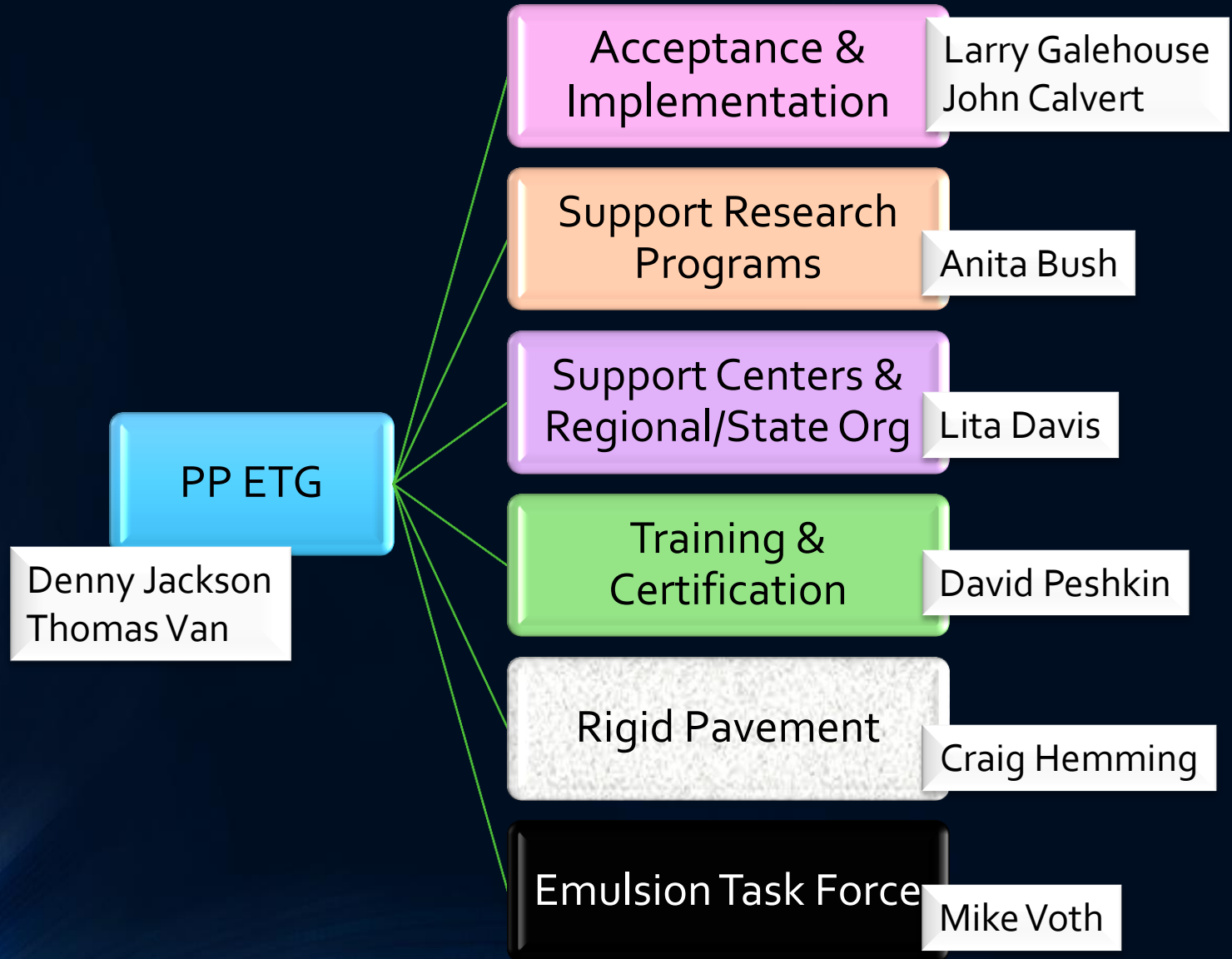
- STATEMENT OF PURPOSE

"Provide expertise to advance pavement preservation"

- GOALS

1. Pavement preservation acceptance and implementation
2. Support research programs
3. Identify & address customer needs
4. Support pavement preservation Centers for Excellence and Regional & State Organizations
5. Integrate preventive maintenance into PMS

PP ETG Structure



Now what?

- Plan: FHWA will host virtual meetings of subcommittees
 - Target: Summer 2013
 - Updates
 - Potential ACTION Plans
 - Lead: Luis Rodriguez
- Discussions with AASHTO TSP₂



<http://www.tsp2.org/>






Resources

FOR YOU...

Resource

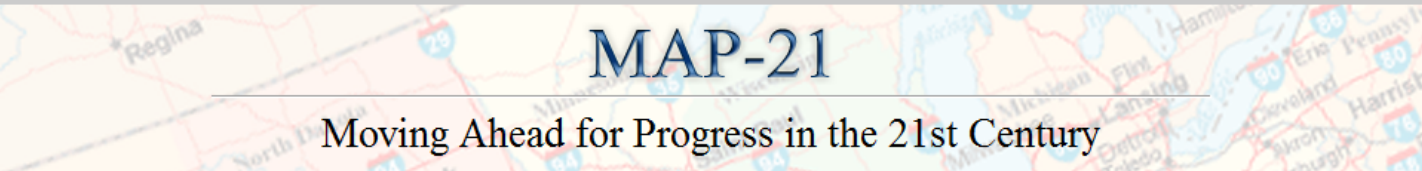
<http://www.fhwa.dot.gov/map21/>

U.S. Department of Transportation
Federal Highway Administration

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Home > MAP-21



MAP-21

Moving Ahead for Progress in the 21st Century

Summary

Q & A

Fact Sheets

Cross Reference

Reports

Presentations

Legislation

Funding Tables

Webinars

Guidance


MAP-21, the Moving Ahead for Progress in the 21st Century Act (P.L. 112-141), was signed into law by President Obama on July 6, 2012. Funding surface transportation programs at over \$105 billion for fiscal years (FY) 2013 and 2014, MAP-21 is the first long-term highway authorization enacted since 2005.

MAP-21 is a milestone for the U.S. economy and the Nation's surface transportation program. By transforming the policy and programmatic framework for investments to guide the system's growth and development, MAP-21 creates a streamlined and performance-based surface transportation program and builds on many of the highway, transit, bike, and pedestrian programs and policies established in 1991.

To view PDF files, you can use the [Acrobat® Reader®](#).

Recently Added

- 4/19 - Federal Lands Transportation Program (FLTP) [Guidance](#) and [Questions & Answers](#) separated.
- 4/18 - Federal Lands Access Program (FLAP) [Guidance](#) and [Questions & Answers](#) separated.
- 4/5 - Strategic Highway Safety Plan (SHSP) [Interim Guidance](#) and [Questions & Answers](#)

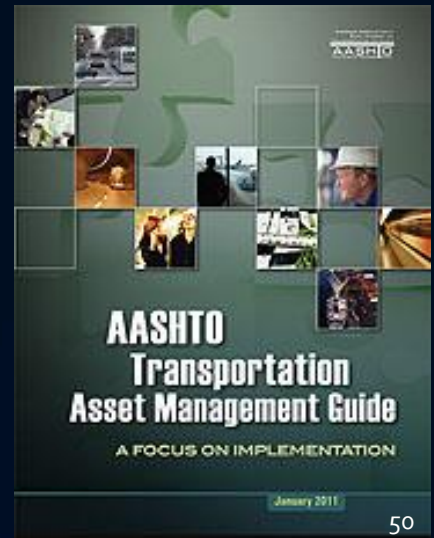
U.S. Department of Transportation
Federal Highway Administration

Privacy Policy | Freedom of Information Act (FOIA) | Accessibility | Web Policies & Notices | No Fear Act | Report Waste, Fraud and Abuse
U.S. DOT Home | USA.gov | WhiteHouse.gov

Federal Highway Administration | 1200 New Jersey Avenue, SE | Washington, DC 20590 | 202-366-4000

Transportation Asset Management

- FHWA Asset Management website:
<http://www.fhwa.dot.gov/asset/index.cfm>
- AASHTO Asset Management Guide
– A Focus on Implementation
- AASHTO Asset Management Subcommittee
- TRB Asset Management Committee
- 1-800-Call-Steve ☺
 - Stephen.Gaj@dot.gov
 - (202) 366-1336

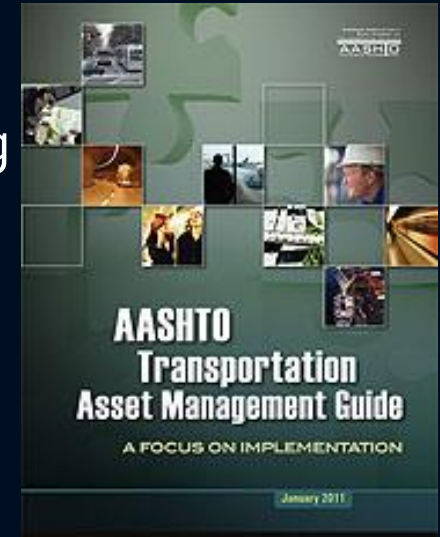


Transportation Asset Management

- Focus on AASHTO TAM Guide
- Working to provide consistent message & training
- To be completed within 18 months of Oct 1, 2012



Training Resource:



NHI course on Transportation Asset Management

- Course Number: FHWA-NHI-131106
- Calendar Year Length CEU FEE
 2012/13 1 Days 0.6 Units \$300 Per Participant
- Level: Intermediate



Go SHRP2!

<http://www.fhwa.dot.gov/goshrp2/>

- Ken Jacoby, Renewal Program Coordinator
 - Overall Renewal Program Coordination
 - *Rotational Assignment*
 - Reporting to Butch Wlaschin



Thank You Questions?

Thomas Harman

Tom.Harman@dot.gov

(410) 962-0134

