


# Federal Highway Administration Future of Highway Funding

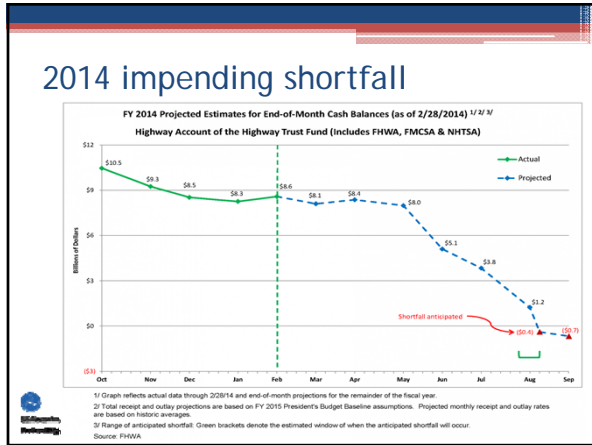
South East Asphalt Users Producers Group  
Corpus Christi, TX  
November 2016

**Chris Wagner, P.E.**  
Team Manager  
FHWA Resource Center  
Christopher.Wagner@dot.gov




I have a new boss.....





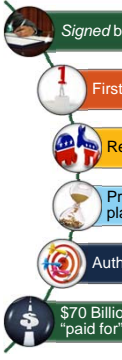

## P.L. 114-94 Fixing America's Surface Transportation (FAST) Act

### Key Highway Provisions




- Signed by President Obama on December 4, 2015
- First long-term authorization act in a decade
- Result of bipartisan cooperation and compromise
- Provides 5 years of funding certainty for infrastructure planning and investment
- Authorizes \$305 B (all surface modes) over FY 2016-2020
- \$70 Billion in transfers to keep "paid for" (offset) by unrelated savings

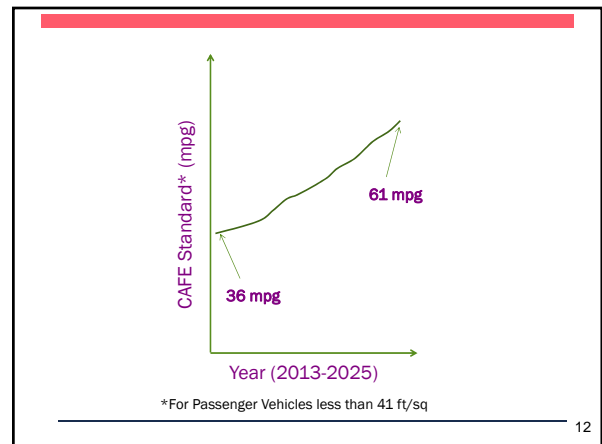
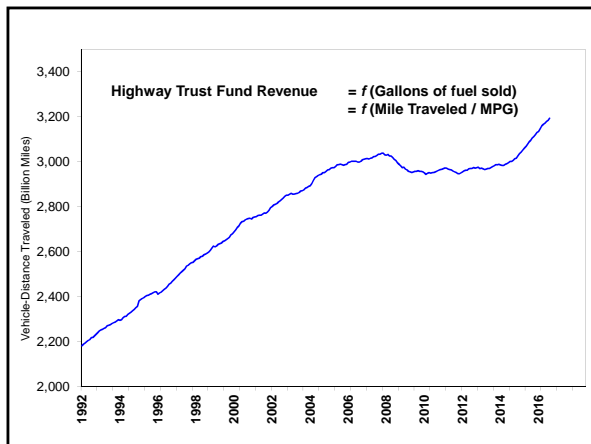
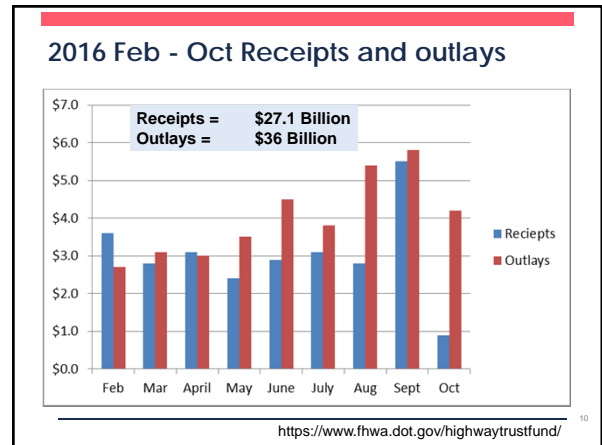
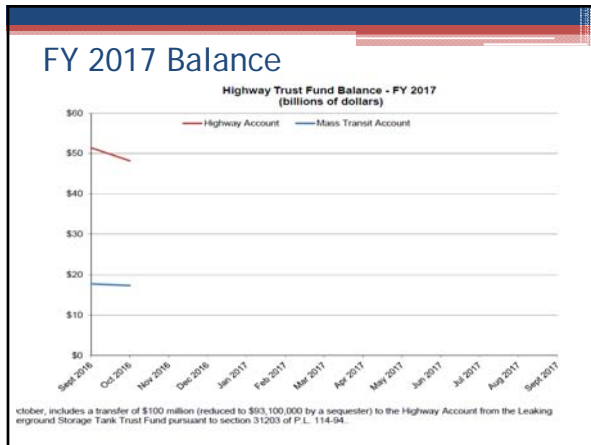
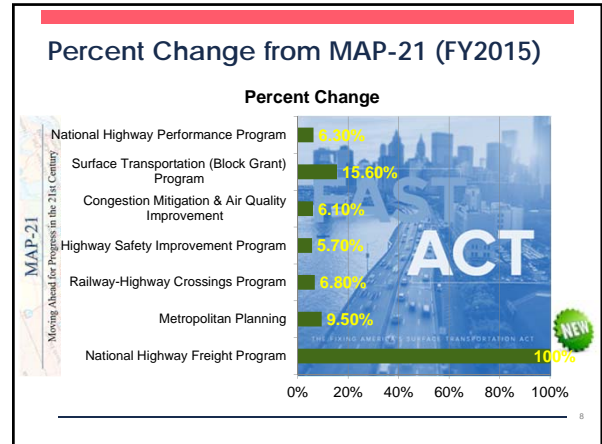
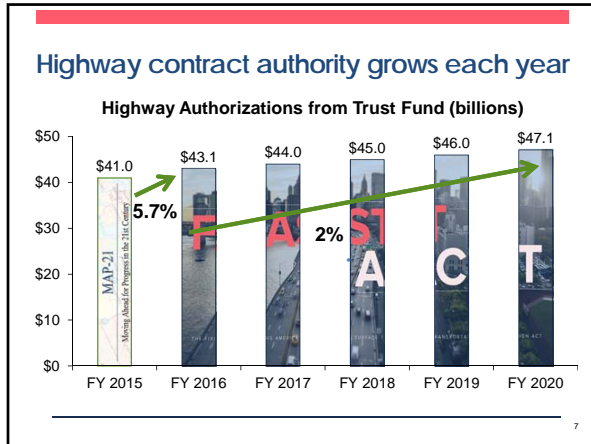
**From the general fund**

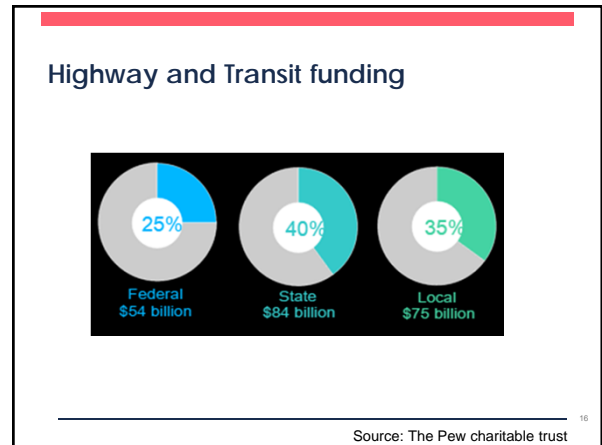
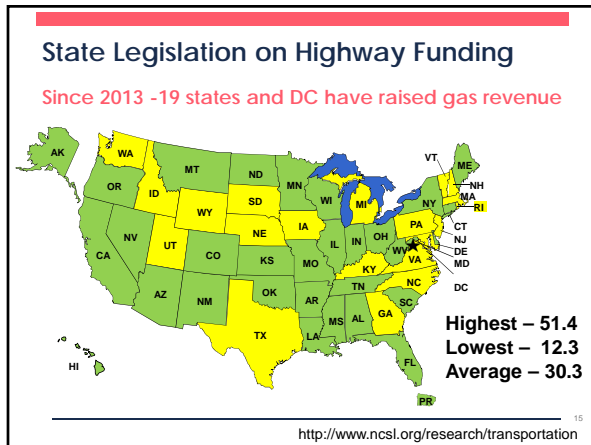
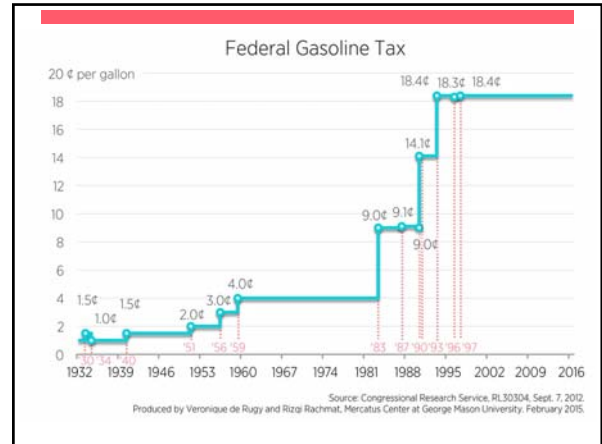
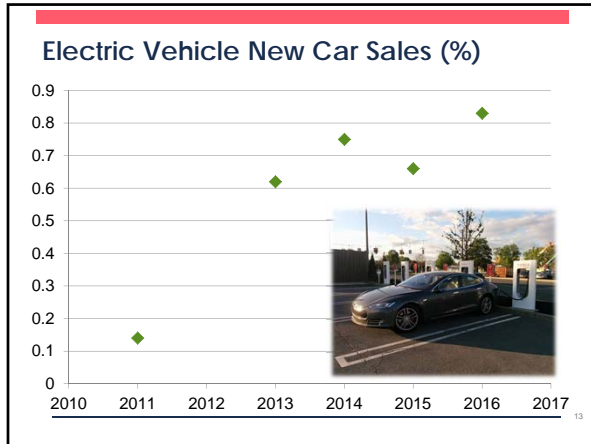



**\$305 B (all surface modes) over FY2016-2020**

Surface Transportation Agency	5-Year Funding (billions)
<b>FEDERAL HIGHWAY ADMINISTRATION</b>	<b>\$ 226.3</b>
Federal Transit Administration	61.1
Federal Motor Carrier Safety Administration	3.2
Pipeline and Hazardous Materials Administration	0.4
National Highway Traffic Safety Administration	4.7
Federal Railroad Administration	10.3
<b>TOTAL</b>	<b>305.0</b>







THE FIXING AMERICA'S SURFACE TRANSPORTATION ACT

**RESEARCH, DEVELOPMENT, TECHNOLOGY & EDUCATION**

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### RDT&E Funding

Program	Avg. Annual Funding (millions)	Change from FY 2015
Highway R&D	\$ 125.0*	+8.7%
Alternative Funding Demonstration Grants	[19.0]	
Future Interstate Study	[1.0]	
Performance Management Data Support	[up to 10.0]	
Technology & Innovation Deployment Program	67.4*	+7.8
Accelerated Implementation of Pavement Tech.	[12.0]	
Training & Education	24.0	0.0
Intelligent Transportation Systems Research	100.0*	0.0
University Transportation Centers	75.5	+4.1
Bureau of Transportation Statistics	26.0	0.0
*Advanced Transportation & Congestion Management Technologies Deployment Grants (to be funded from Highway R&D, TIDP, & ITS Research)	[\$60.0]*	
Flexible funding in HRD, TIDP, and ITS programs	200.0	-24.7

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## Asphalt Expert Task Groups

- Forum for Government, Industry, and Academia
- Discussion of ongoing asphalt binder and mixture technology
- Provide technical input for current and future research, development, and specifications.

[www.asphaltetgs.org](http://www.asphaltetgs.org)



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## Balanced Mix Design


- Asphalt Mixture Expert Task Group created a BMD Team in partnership with highway agencies, academia, and industry.
- Guidance for national testing standards and requirements.
- Develop technical documents.
- Identify research needs.
- POC: Aschenbrener/Corrigan



**Thursday 10:45am – Dr. Sam Cooper III**

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## RAP/RAS Taskforce




- Key questions
  - How much of the RAP/RAS binder is effective?
    - Quantity
  - What is the stiffness of the resulting binder?
    - Quality

**Wednesday 11:15 am – Tim Aschenbrener**

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## Improving Durability Through Density

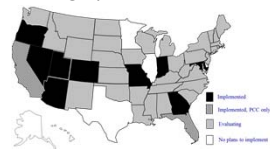
- Study to support premise that increasing pavement density 1-2% could increase service life by 10-30%.
- 10 states selected for demonstration projects.
- Delivering up to 25 one-day compaction workshops.
- Planned follow-up to include more states in project.
- **Wed 8:45 am – Tim Aschenbrener**



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## MEPDG Activities

- NCAT/NAPA “Pavement ME-Design – A Summary Of Local Calibration Efforts
- ME Design Users Group (**Indianapolis, IN - Dec 2016**)
- NCAT/Univ of AR analysis of the asphalt fatigue cracking model in the ME-Design procedure.
- **TPF 5(305)**
- POC: Wagner



Implemented  
 Implemented, RVC only  
 Evaluating  
 No plans to implement


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## FAST Act Legislation

- **Asset Management Requirement** October 24, 2016
- **Pavement and Bridge Performance Measures** Very Soon



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### Public Law Requirements

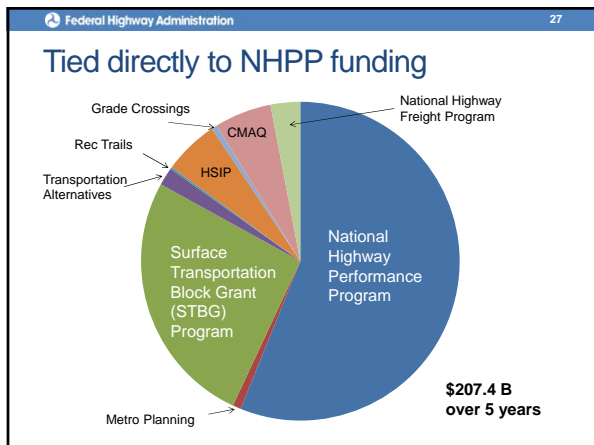

- April 30, 2018 – State DOT submit initial Asset Management Plan
- June 30, 2019 – States submit compliant Asset Management Plan
- FHWA to establish minimum standards for compliance and certify Asset Management Plan by August 31, 2019

<https://www.fhwa.dot.gov/asset/pubs/hif17006.pdf>




### Asset Management Plan Minimum Content

- Summary listing and condition description of the NHS pavements and bridges
- NHS pavements and bridges targets
- Asset management objectives and measures
- Performance gap analysis Risk analysis
- Life-cycle planning
- Financial plan (minimum 10 years)
- Developing investment strategies

### Where do I learn more?

- Division Office Asset Management Representative
  - <http://www.fhwa.dot.gov/infrastructure/asstmgmt/amcontacts.cfm>
- <https://www.fhwa.dot.gov/tpm/rule.cfm>
  - Fact Sheet
  - Webinar
- Luis Rodriguez, FHWA Resource Center



### FHWA Office of Asset Management

<http://www.fhwa.dot.gov/asset/index.cfm>

- Examples of asset management plans and templates
- Generic work plan for developing an asset management plan.
- Publications relative to risk management and financial planning.
- List of NHI asset management courses

