



U.S. Department of Transportation  
Federal Highway Administration

Office of Safety Research and Development

# TRANSPORTATION SAFETY PRIORITIES GOVERNMENT PERSPECTIVE

**Monique R. Evans, P.E.**

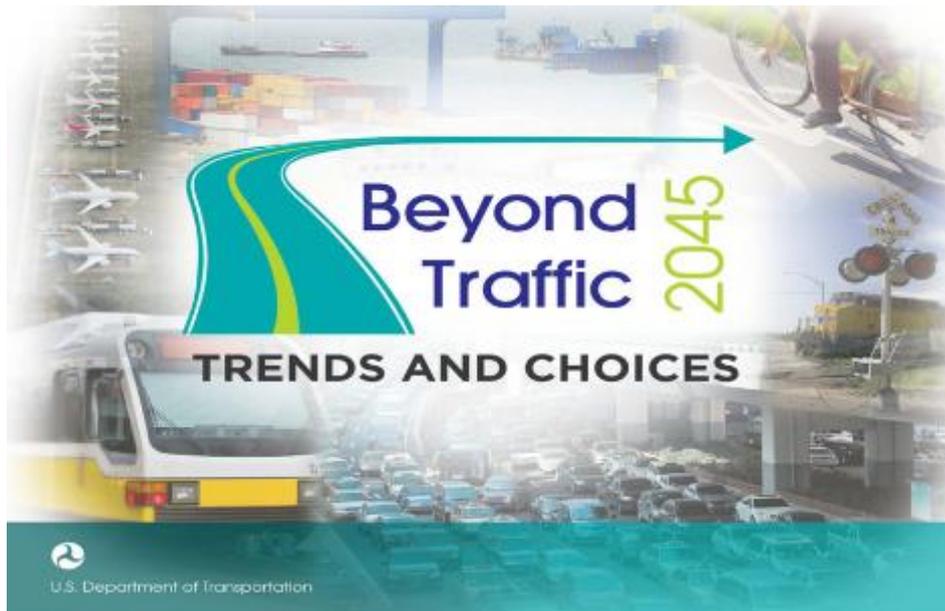
Director, FHWA Office of Safety R&D

Safety University Transportation Centers Summit  
Pittsburgh, PA

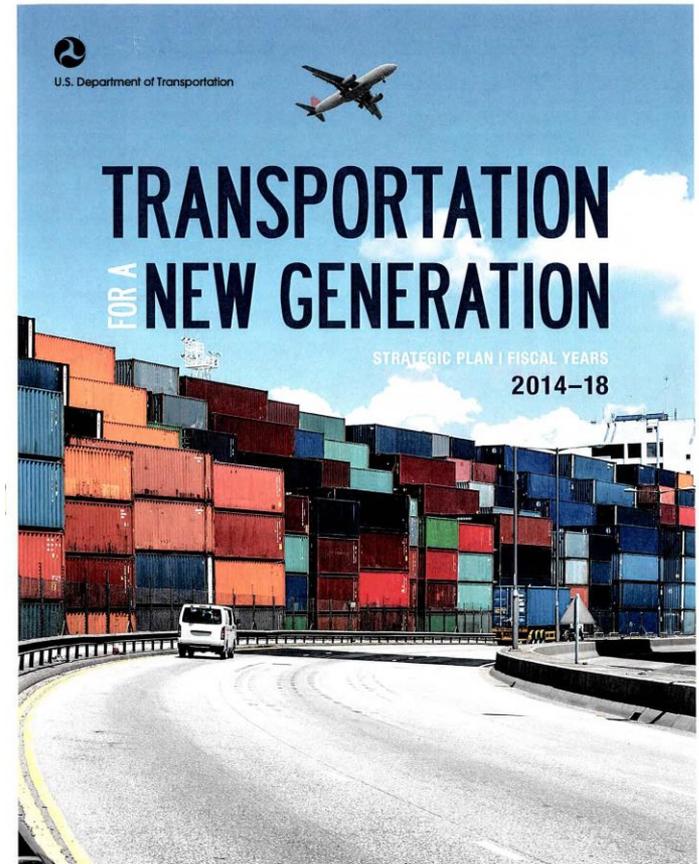
March 19, 2015



# 30-YR & 4-YR USDOT STRATEGIC PLANS



<http://www.dot.gov//beyondtraffic>



[http://www.dot.gov/sites/dot.gov/files/docs/2014-2018-strategic-plan\\_0.pdf](http://www.dot.gov/sites/dot.gov/files/docs/2014-2018-strategic-plan_0.pdf)

# RESEARCH & TECHNOLOGY LIFECYCLE

MAP-21 provided, and GROW AMERICA would continue, a comprehensive research program, covering all facets of the Innovation Lifecycle:

- Agenda setting
- Conduct of Research
- Evaluation and testing
- Implementation and deployment
- Training and Education



# FHWA R&T AGENDA

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## Federal Highway Administration Research and Technology

Coordinating, Developing, and Delivering Highway Transportation Innovations

Home **Challenges** Research Areas Activities Objectives & Strategies

### FHWA Research and Technology Agenda

**FHWA addresses the Nation's critical transportation challenges:**

**Advancing Highway Safety**  
Reducing fatalities and serious injuries through a diverse suite of programs and initiatives.

[Learn more >>](#)

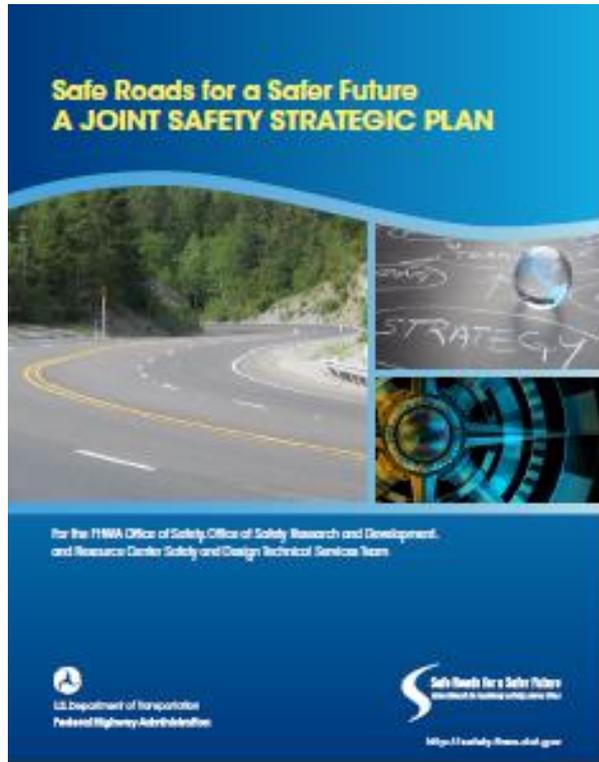
1 2 3 4 5 6

Envision highways with less congestion, fewer injuries and deaths, and that actually make it easy to get from here to there. The FHWA Research and Technology Agenda is solving the Nation's critical transportation challenges: Advancing Highway Safety, Improving the Mobility of People and Goods, Maintaining Infrastructure Integrity, Enhancing System Performance, Promoting Environmental Sustainability, and Preparing for the Future.

By conducting research of national significance and putting our knowledge into practice, FHWA is finding ways to improve the highway environment and advance the development of new transportation technologies. The Research and Technology Agenda aligns with the Moving Ahead for Progress in the 21st Century Act (MAP-21), which establishes policy, principles, and planning practices for a flexible national research and technology program.

[www.fhwa.dot.gov/research/fhwaresearch/agenda/](http://www.fhwa.dot.gov/research/fhwaresearch/agenda/)

# FHWA'S SAFETY STRATEGIC PLAN (SSP)



**Vision** – Toward zero deaths and serious injuries on the Nation’s roadways

**Mission** – Exercising leadership throughout the highway community to make the Nation’s roadways safer by:

- Developing, evaluating, and deploying life saving countermeasures
- Advancing the use of scientific methods and data-driven decisions
- Fostering a safety culture
- Promoting an integrated, multidisciplinary (4E’s) approach to safety

# SSP GOALS & KEY OBJECTIVES

|                |   |  |  |   |  |
|----------------|---|--|--|---|--|
| EXTERNAL GOALS | <b>4</b> Customers, Stakeholders, and Partners  | <b>4.1</b><br>Champion <b>FHWA safety policies and programs</b> to advance safety improvements                             | <b>4.2</b><br>Promote an emphasis on <b>safety performance in all aspects</b> of roadway investment and decisionmaking | <b>4.3</b><br>Embolden a <b>culture within the highway community</b> that embraces safety as a core value | <b>4.4</b><br>Articulate the <b>benefits of roadway safety investments</b>   |
|                | <b>3</b> Program and Service Delivery           | <b>3.1</b><br>Improve <b>safety data</b> and expand capabilities for <b>analysis and evaluation</b>                        | <b>3.2</b><br>Enhance <b>strategic highway safety planning</b>   | <b>3.3</b><br>Develop and promote <b>roadway safety improvements</b>                                      | <b>3.4</b><br>Establish and implement the safety element of the <b>Transportation Performance Management</b> program |
| INTERNAL GOALS | <b>2</b> Business Practices/ Internal Processes | <b>2.1</b><br>Employ a <b>strategic planning process</b> to guide the safety units and align resource allocation decisions | <b>2.2</b><br>Foster a <b>safety culture</b> throughout FHWA   | <b>2.3</b><br>Utilize <b>effective partnerships</b> within USDOT for the improvement of highway safety    | <b>2.4</b><br>Enhance the effectiveness and efficiency of <b>business processes</b>                                  |
|                | <b>1</b> Employee Learning and Growth           | <b>1.1</b><br>Improve the quality of the <b>work environment</b>   | <b>1.2</b><br>Improve <b>career and leadership development</b> opportunities   | <b>1.3</b><br>Enhance safety knowledge of <b>FHWA professionals</b>                                       |  |

# DOT ROADWAY SAFETY FOCI

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- Pedestrians & bicyclists
- Older road users
- Motorcyclists
  - Motorcycle Crash Causation Study (MCCS)
- Implementation of Proven Safety Countermeasures
- Connected Vehicles (V2V & V2I)
- Advanced Vehicle Automation Technologies
- SHRP2 Safety Data Implementation
- Rural Road Safety
- Distracted Driving

# SAFETY TRAINING AND ANALYSIS CENTER (STAC): SHRP2 DATA



# FHWA SAFETY R&D FOCUS AREAS

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## Integrated Roadmaps

- Data and Analysis
- Intersections
- Pedestrians and Bicyclists
- Roadway Departure

## Coordinated Program Plans

- Human Factors
- Local and Rural Roads

# EMERGING AREAS

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- Performance based practical design
- Data quality standards
- Data management
- Asset management for safety



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## Office of Safety Research and Development

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 [www.fhwa.dot.gov/research/tfhrc/offices/safety/](http://www.fhwa.dot.gov/research/tfhrc/offices/safety/)

