

A horizontal banner at the top of the slide features the text "FHWA Research and Technology" in a large, bold, blue font. The background of the banner is a collage of images related to transportation: on the left, construction workers in orange safety vests; in the center, a road with a car and a bridge; on the right, a modern building and people riding bicycles.

# FHWA Research and Technology

## **American Association of State Highway and Transportation Officials (AASHTO) Research Advisory Committee (RAC) View From the Top Federal Highway Administration (FHWA) Update**

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AASHTO RAC/Transportation Research Board  
State Representatives Meeting

**July 20, 2020**



A horizontal banner at the top of the slide features a collage of transportation-related images: a road winding through a forest, construction workers in orange vests, a car on a road, a modern building, a person on a bicycle, and a road with a guardrail. The text "FHWA Research and Technology" is overlaid in a large, blue, sans-serif font.

# FHWA Research and Technology

## Topics Covered in Presentation

- Reauthorization Update
- New Research and Development (R&D) Products and Resources
- R&D Outreach and Collaboration
- Research on the Horizon
- Opportunities to Contribute



## Reauthorization Update

- U.S. Senate Committee on Environment and Public Works (EPW) passed \$287 billion surface transportation bill in July 2019.
- U.S. House of Representatives passed a \$1.5 trillion infrastructure bill, which includes \$494 billion for surface transportation reauthorization in July 2020.
- White House is finalizing a 10-year surface transportation reauthorization.



## New R&D Products and Resources

- **Webinar:** “Developing Speed Crash Modification Factors (CMF) Using SHRP 2 Roadway Information Database (RID) Data”
- **Video resources:** Construction Specifications Maximize Project Delivery Quality
- **TechNote:** “Concrete Resistivity Testing Methods”
- **Article:** “Stakeholder Workshop Results on Automated Vehicles, Safety, and Human Factors”



A banner image for FHWA Research and Technology. It features a collage of transportation-related scenes: a highway construction site with workers in orange safety vests, a road winding through a green landscape, a modern multi-story building, a person riding a bicycle on a path, and a road with trees. The text "FHWA Research and Technology" is overlaid in a large, blue, sans-serif font.


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## R&D Outreach and Collaboration

- Hydraulics Laboratory supports the Rivers and Roads (R&R) Connection Program.
- The Long-Term Pavement Performance (LTPP) program is updating its strategic plan for LTPP data analysis.
- Participate in the Federal Agency Technical Working Group (TWG) on Exploratory Advanced Research (EAR) fly ash.



## Research on the Horizon

- EAR research on blockchain, artificial intelligence, and recycled plastics in asphalt binders.
- Small Business Innovation Research (SBIR) tools related to the use of fly ash in concrete and the control of air entrainment.
- Mixture performance test comparison study.
- Optimization for the quantification of calcium oxychloride in cementitious systems.
-  Midblock pedestrian crossing in-vehicle warning.

A horizontal banner image composed of several smaller images related to transportation. From left to right: a road construction site with workers in orange safety vests; a road winding through a hilly landscape; a modern building with a glass facade; a person riding a bicycle on a paved path; and a road with trees and a building in the background. The text "FHWA Research and Technology" is overlaid in a large, blue, sans-serif font across the center of the banner.

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## Opportunities to Contribute

- Seeking a State Department of Transportation (DOT) to lead a Transportation Pooled Fund project for Building Information Modeling (BIM).
- Welcome participation in a pooled fund study on Ultra-High Performance Concrete (UHPC) for bridge components.



A horizontal banner composed of several images: a road construction site with workers in orange vests, a road winding through a forest, a modern building with a glass facade, a person riding a bicycle on a path, and a road with a guardrail. The text "FHWA Research and Technology" is overlaid in a large, blue, sans-serif font.

# FHWA Research and Technology

## Any questions?

For more information, contact:

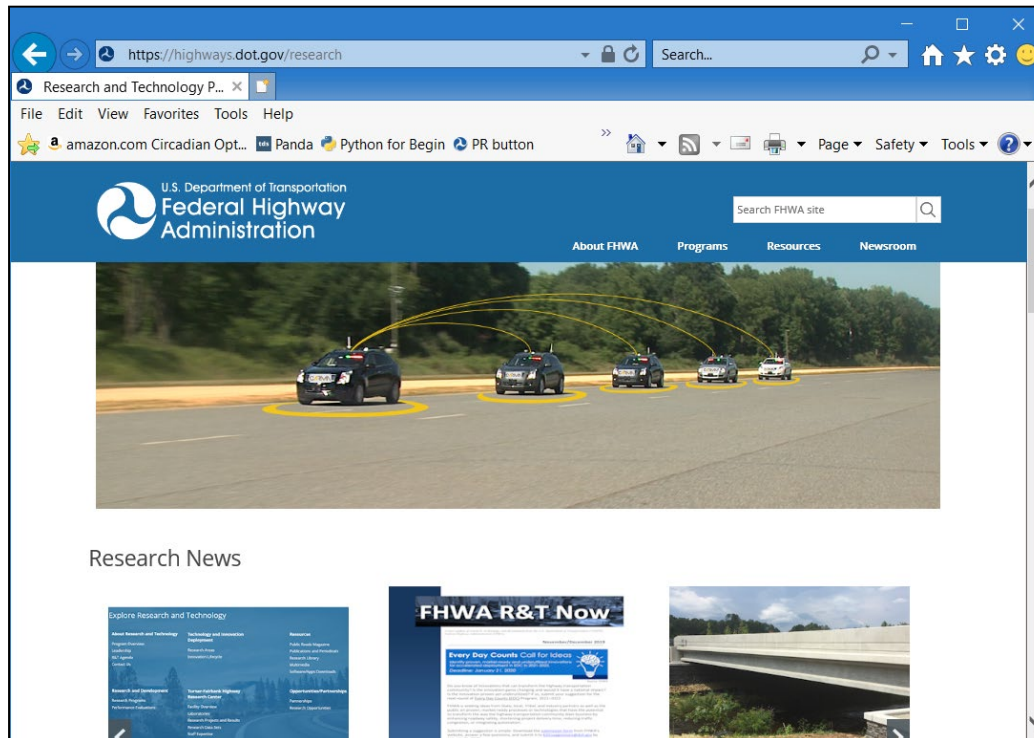
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<https://highways.dot.gov/research>





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