

FHWA Research Perspective and Policy Update

SHRP2 R26 Workshop for the Preservation of High-Traffic-Volume Roadways

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Other SHRP2 Pavement Implementation Activities

- Guidelines for the Preservation of High-Traffic-Volume Roadways (R26)
- Tools to Improve PCC Pavement Smoothness During Construction (R06E)
- Precast Concrete Pavements (R05)
- Performance Specifications for Rapid Renewal (R07)
- New Composite Pavement Systems (R21)





Regulation, Policy, Guidance

- Rule Making Contact: stephen.gaj@dot.gov or 202 366 1336
 - Asset Management
 - Pavement Performance Measures
- Clarification Memo: Preservation and Preventive
 Maintenance Contact: bryan.cawley@dot.gov or 202 366 1333)





Accelerated Implementation and Deployment of Pavement Technologies – Selected Activities

- Pavement Sustainability Reference Guide
 - gina.ahlstrom@dot.gov or 202 366 4612
- Rubber Asphalt Best Practices Guide
 - matthew.corrigan@dot.gov or 202 366 1549
- Optimization of Pavement Overlays for Preservation
- Highway Materials Engineering Course
 - michael.rafalowski@dot.gov or 202-366-1571





Every Day Counts

- Latest Accelerated Innovation Deployment Demonstration Grants
 - Alabama
 - lowa
 - Oklahoma
 - Vermont
 - Washington
- Announcement of EDC Round 3 Innovations





EDC-3 Innovations – A Sample

- Locally Administered Federal-Aid Projects: Stakeholder Partnering
- 3D Engineered Models: Schedule, Cost, and Post-Construction
- Improving DOT and Railroad Coordination (SHRP2 R16)
- Geosynthetic Reinforced Soil Integrated Bridge System
- e-Construction
- Smarter Work Zones
- Ultra-High Performance Concrete Connections for Prefabricated Bridge Elements





Research

- Sustainable Pavement Solutions for Utility Cuts
 - Contact: morgan.kessler@dot.gov, 202-493-3187
- Snowplow Guidance Systems
 - Contact: morgan.kessler@dot.gov, 202-493-3187
- Integrating 3D Models into Asset Management
 - Contact: morgan.kessler@dot.gov, 202-493-3187
- Potential LTPP Preservation Experiment
 - Contact: jack.springer@dot.gov, 202-493-3144





FHWA's R&T Agenda

- In SAFETEA-LU, Congress designated funding, structure and earmarks to certain external entities
- MAP-21 provides FHWA with flexibility to structure a comprehensive R&T program that aligns with highway transportation needs and supports performance goals
- The new FHWA R&T Agenda website shows how the R&T program is aligned to address six major national highway challenges





FHWA R&T Agenda Website Overview

The website is designed to:

- Tell the FHWA R&T story what we do & why
- Provide high-level overview & context of FHWA R&T
- Show the cross-cutting work of FHWA offices
- Improve transparency of the FHWA R&T portfolio to stakeholders
- Provide a web-based mechanism for stakeholder input





Presents FHWA's R&T Agenda from two perspectives – challenges and program areas

Major, national-level challenges:

- Advancing Safety
- Enhancing System Performance
- Improving the Mobility of People and Goods
- Maintaining Infrastructure Integrity
- Promoting Environmental Sustainability
- Preparing for the Future

Program areas:

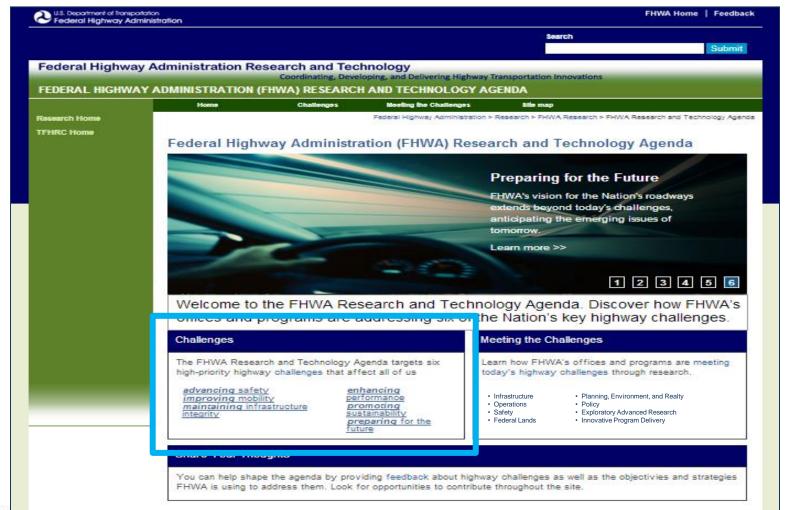
- Safety
- Policy
- Operations
- Innovative Program Delivery
- Infrastructure
- Planning and Environmental
- Federal Lands
- Exploratory Advanced Research



FHWA R&T Agenda Website



R&T Agenda Homepage / Challenges

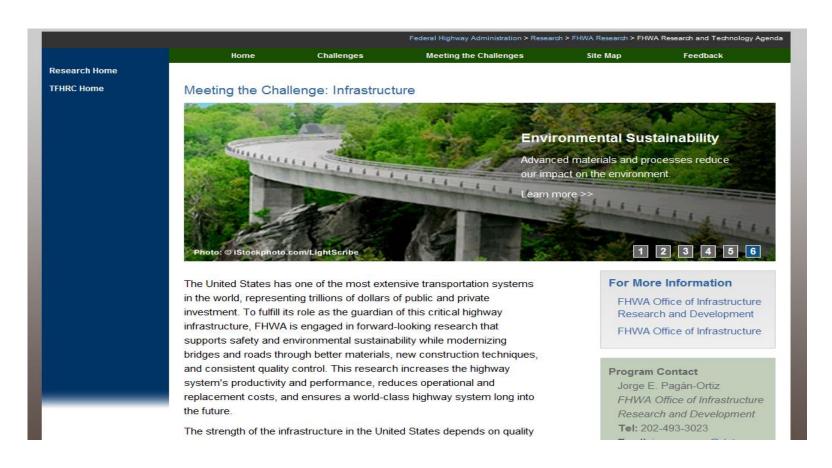


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FHWA R&T Agenda Website



Infrastructure Challenges





We want your feedback!

R&T Agenda Questions:

- What do you see as the key highway transportation problems facing the nation?
- Is FHWA addressing the right (nationally critical) challenges? If not, what other national challenges should FHWA address?
- Does FHWA's overall research strategy align with the most critical challenges? If not, what areas are missing?
- Are you engaged in research that may contribute to FHWA's research strategies? If so, please explain.



FHWA R&T Agenda Website



R&T Agenda Website

www.fhwa.dot.gov/research/fhwaresearch/agenda

