



U.S. Department of Transportation
Federal Highway Administration
Office of Infrastructure

FHWA and Resiliency

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FHWA Mission

To enable and empower the strengthening of a world-class highway system that promotes safety, mobility, and economic growth, while enhancing the quality of life of all Americans

FHWA Organization



Example Program Areas

Environment

- Environmental Justice
- Sustainable Transportation
- Noise
- Air Quality

Operations

- Congestion
- Mobility
- Freight
- Emergency Management

Safety

- Highway Safety
- Intersection Safety
- Pedestrian & Bicycle

Infrastructure

- Bridge and Structures
- Construction
- Pavements
- Asset Management

Civil Rights

- American with Disabilities Act
- Contractor Compliance
- On the Job Training

FHWA Strategic Goals

- **SAFETY:** Reduce Transportation-Related Fatalities and Serious Injuries Across the Transportation System.
- **INFRASTRUCTURE:** Invest in Infrastructure to Ensure Safety, Mobility and Accessibility and to Stimulate Economic Growth, Productivity and Competitiveness for American Workers and Businesses.
- **INNOVATION:** Lead in the Development and Deployment of Innovative Practices and Technologies that Improve the Safety and Performance of the Nation's Transportation System.
- **ACCOUNTABILITY:** Serve the Nation with Reduced Regulatory Burden and Greater Efficiency, Effectiveness and Accountability.

From FHWA Strategic Framework

<https://www.fhwa.dot.gov/policy/fhwaplan.cfm>

FHWA Stakeholder Engagement

Key Stakeholders

- International, Federal, State, and Local Agencies
- Industry
- Academia

Examples of Stakeholder Engagement

- Workshops, peer exchanges
- Technical Feedback Groups
- Pooled fund studies, demonstration projects
- Interagency Agreements

Resiliency at FHWA

- FHWA Order 5520 Transportation System Preparedness and Resilience to Climate Change and Extreme Weather Events
 - **Resilience.** Resilience or resiliency is the ability to anticipate, prepare for, and adapt to changing conditions and withstand, respond to, and recover rapidly from disruptions.
 - “It is FHWA’s policy to strive to identify the risks of climate change and extreme weather events to current and planned transportation systems. The FHWA will work to integrate consideration of these risk it its planning, operations, policies and programs in order to promote resilience; safeguard Federal investments; and ensure the safety, reliability and sustainability of the Nation’s transportation systems.”
- 23 CFR 667.1
 - “Each State, acting through its department of transportation (State DOT) shall conduct statewide evaluations to determine if there are reasonable alternatives to roads, highways, and bridges that have required repair and reconstruction activities on two or more occasions due to emergency events.”

Demonstration to Advance New Pavement Technologies Pooled Fund Solicitation No. 1542

This pooled fund study will leverage partnerships with State DOTs to deploy and showcase pavement technologies that address various pavement and materials topics.

- Integration of sustainability and resiliency into decision-making process, technical frameworks, education efforts, and stakeholder engagement

Annual Contributions

- FHWA: \$2,000,000
 - Includes up to \$250,000, up to 100 hours of technical assistance, and resources for developing case study reports and videos for each selected demonstration project
 - Provides website for related publications and hosts peer exchanges for showcasing lesson learned from projects
- DOT: \$50,000 (minimum of \$10,000 per state)
 - Submits and administers projects, participates in pooled fund meetings, collaborates with other states and FHWA to advance initiatives, and develops project report documenting the project and outcomes

<https://www.pooledfund.org/Details/Solicitation/1542>

FHWA P&M Program Areas



Source: FHWA

Resiliency at FHWA

- FHWA Approaches to Resilience – Rob Kafalenos
- Providing for Bridges & Structures Resiliency – Sheila Duwadi
- Progress Toward More Resilient Pavements – Amir Golalipour
- Transforming Transportation through Innovation – Jeff Zaharewicz