



2021 AEMA-ARRA-ISSA Annual Meeting

February 15-18



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FHWA Pavement Preservation Strategic Plan

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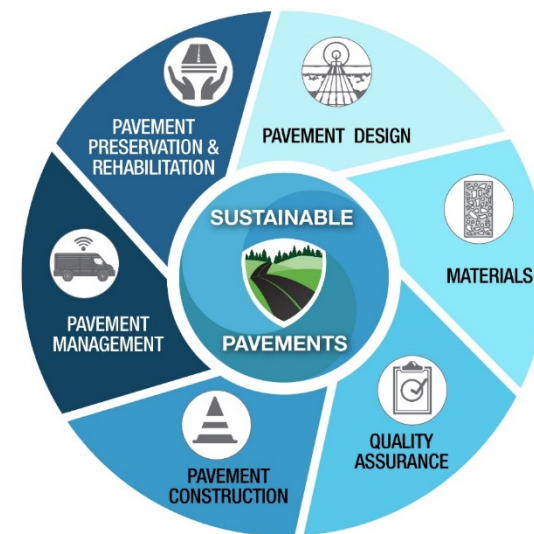
Pavement Preservation

- FHWA definition*:

Work that is planned and performed to improve or sustain the condition of the transportation facility in a state of good repair.

- *Keeping good roads good*

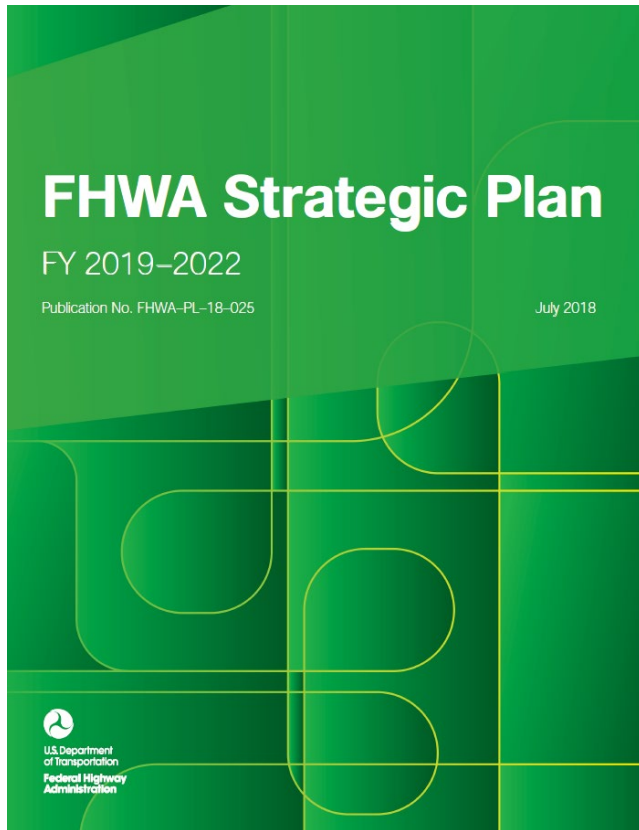
FHWA P&M Program Areas



FHWA is the source of all images in this presentation unless otherwise noted.

*Guidance on Highway Preservation and Maintenance memo dated February 25, 2016

FHWA Pavement Preservation Program Linkages to FHWA Strategic Plan



The 2019-2022 FHWA Strategic Plan states:
*The FHWA will continue to raise the awareness of proven strategies, such as performance-based practical design, and the **use of preservation techniques** to cost-effectively extend the service life of transportation assets that could further improve investment decision making.*

FHWA Pavement Preservation Program

Role of FHWA

- To provide **policy and leadership** (including training and technology transfer) toward effective application of pavement preservation within an overall pavement management process.
- To **demonstrate** the economic, social and environmental **benefits** derived from proper implementation of preservation programs.
- To **conduct and sponsor research** to address pertinent pavement preservation questions and needs of national significance.



Guidelines for the Preservation
of High-Traffic-Volume
Roadways (R26)



Pavement Preservation
(When, Where, and How)

FHWA Pavement Preservation Program Technical Feedback Group

Focus: To convey key challenges and observations from the pavement preservation community that will provide valuable technical information to FHWA's strategic program.

- Includes 20 members representing state and local DOTs, industry, and academia
- Meets at least twice a year

FHWA Pavement Preservation Program Opportunities

- Expand the knowledge and experience
- Demonstrate the benefits
- Encourage agencies to become more pavement preservation oriented
- Foster collaboration and cooperation amongst stakeholders and partners

FHWA Pavement Preservation Program Strategic Elements

Mission: Preserving the nation's valuable highway infrastructure by keeping good roads in good conditions by using cost-effective pavement preservation.

Objective: To help agencies strategically consider and implement pavement preservation in a data-driven and systematic manner to optimize pavement performance, maximize the use of available funding, and incorporate effective stakeholder engagement.

FHWA Pavement Preservation Program Strategy 1

Explore and disseminate pavement preservation fundamentals

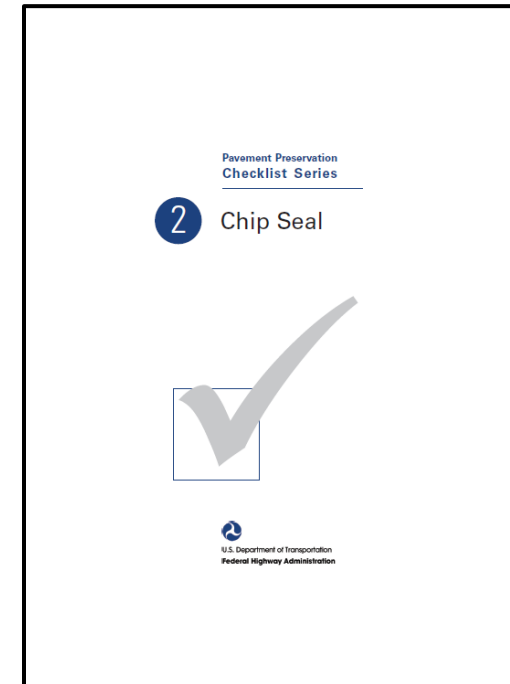
Tactics & Activities

Conduct Benchmarking Study

- Evaluate impacts of current programs
- Propose standard metrics to quantify PP benefits
- Identify gaps in decision-making practices

Increase pavement preservation understanding

- Update website
- Publish educational and reference materials
- Facilitate education and training



FHWA Pavement Preservation Program Strategy 2

Encourage effective pavement preservation programs

Tactics & Activities

Develop & deploy pavement tools

- Provide construction and inspector training
- Identify pavement preservation considerations during pavement design activities.

Integrate with performance management and asset management

- Maximize use of pavement management systems
- Provide techniques and tools to identify appropriate preservation, rehabilitation, and reconstruction options

Leverage industry and other stakeholder resources

- Promote construction certification programs
- Partner on project showcases

FHWA Pavement Preservation Program Strategy 3

Facilitate strategic pavement preservation research and implementation efforts

Tactics & Activities

Implement Research Roadmap

- Lead or support critical research & development projects
- Develop fact sheets and research reports

Implement coordinated preservation pavement program

- Execute communication and marketing plans
- Engage stakeholders through FHWA participation and sponsorship of various activities such as conferences, workshops, and webinars

Pavement Preservation 2020 Webinar Series

US Department of Transportation
Federal Highway Administration

Overview

The Federal Highway Administration, in partnership with the Pavement Preservation and Recycling Alliance, presents the Pavement Preservation Webinar Series. This series of webinars is designed to help State highway and local agencies in preserving their investment in roadways, enhance safety, extend pavement life, improve functional performance, and contribute to increased user satisfaction. A key principle of pavement preservation is keeping good roads good.

Upcoming Webinars

Webinars are tentatively scheduled for the third Thursday of each month at 2 p.m. (Eastern).

Nov. 19 **Micro and Slurry Mix Design and Material Testing.**
This presentation provides an overview of micro and slurry design considerations. Participants will learn about how the quality of the individual components affect the end product, design performance testing, and what they mean for field performance and which application fits the conditions in the field.
Registration: <https://collaboration.fhwa.dot.gov/dot/fhwa/WC/Lists/Seminars/DispForm.aspx?ID=2546>

Dec. 17 **Full Depth Recycling (FDR).**
Full Depth Reclamation (FDR) is an all-star tool that every engineer should have in their toolbox. Proper implementation of FDR starts with Project Selection, moves through Construction, and is completed with a robust Quality Control program.
Registration: <https://collaboration.fhwa.dot.gov/dot/fhwa/WC/Lists/Seminars/DispForm.aspx?ID=2555>

Target Audiences

Ideal for State highway and local transportation agencies, industry, suppliers, consultants, and academia. All webinars are tentatively scheduled for the third Thursday of each month at 2 p.m. (Eastern); space is limited so please register today.

With all our webinars: we provide our audience with technical and educational programs that provide insights as well as real-world application experience. Professional Development Hours are available upon request.

For more information, please contact Jason Dietz at (720) 810-0871 or Jason.Dietz@dot.gov.

Recorded Webinars

- Feb. 27: Emulsions 101
<https://connectdot.connectsolutions.com/p1ghar69laviv/>
- Mar. 19: Milling Best Practices
<https://connectdot.connectsolutions.com/p1c1md0ky277/>
- Apr. 16: Intro. to Slurry Systems and Site Selection
<https://connectdot.connectsolutions.com/p1xmkvce1q7ze/>
- May 21: Crack Treatments (Series 1)
<https://connectdot.connectsolutions.com/p1g1u6zm0eniv/>
- Jun. 18: Hot In-place Recycling (HIR)
<https://connectdot.connectsolutions.com/p1v13071r0oat/>
- Jul. 16: Engineered Emulsions
<https://connectdot.connectsolutions.com/p1k2vxd1oec/>
- Aug. 20: Chip Seal Intro., Site Selection, Design & Materials
<https://connectdot.connectsolutions.com/p1e841jy1z/>
- Sept. 17: Cold In-place Recycling and Cold Central Plant Recycling
<https://connectdot.connectsolutions.com/p1g3z80827g/>
- Oct. 15: Tack Fog and Seals
<https://connectdot.connectsolutions.com/p1n1mhhsuzmb/>

FHWA Pavement Preservation Program

Measurable Outcomes

Strategy	Measurable Outcome
1) Explore and disseminate fundamentals of pavement preservation	Conduct benchmarking study. Develop metrics definition document and outreach program.
2) Encourage effective pavement preservation programs	Lead transportation pooled fund study to demonstrate integrated systems approach to pavement preservation.
3) Facilitate strategic pavement preservation research and implementation efforts	Initiate research projects with States on benefits of pavement preservation.



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.

- Implementation of strategic pavement preservation programs

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



FHWA Pavement Preservation Program Strategic Plan Next Steps

- Publish approved strategic plan
- Assess strategic plan for 2021 updates
- Continue to carry out activities in implementation plan

FHWA Pavement Preservation Program Area Team

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FHWA Pavement Preservation Program

Questions?

<https://www.fhwa.dot.gov/pavement/>

