



MnROAD



## Transportation Pooled Fund-5(522), PG3

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MnDOT Office of Materials and Road Research  
AASHTO TSP2 - Emulsion Task Force Meeting  
June 5, 2025



## MnDOT/NCAT Preservation Group Studies - History:

- **NCAT - Lee Road 159**

*Pavement Preservation Study (2012-Present)*

- **TPF-5(267) PG1**

*Accelerated Performance Testing for the NCAT Pavement Test Track (2015-2018).*

- Alabama – Lee Road 159 & US 280
- Minnesota – Mille Lacs County CSAH 8 & US 169

- **TPF-5(375) PG2**

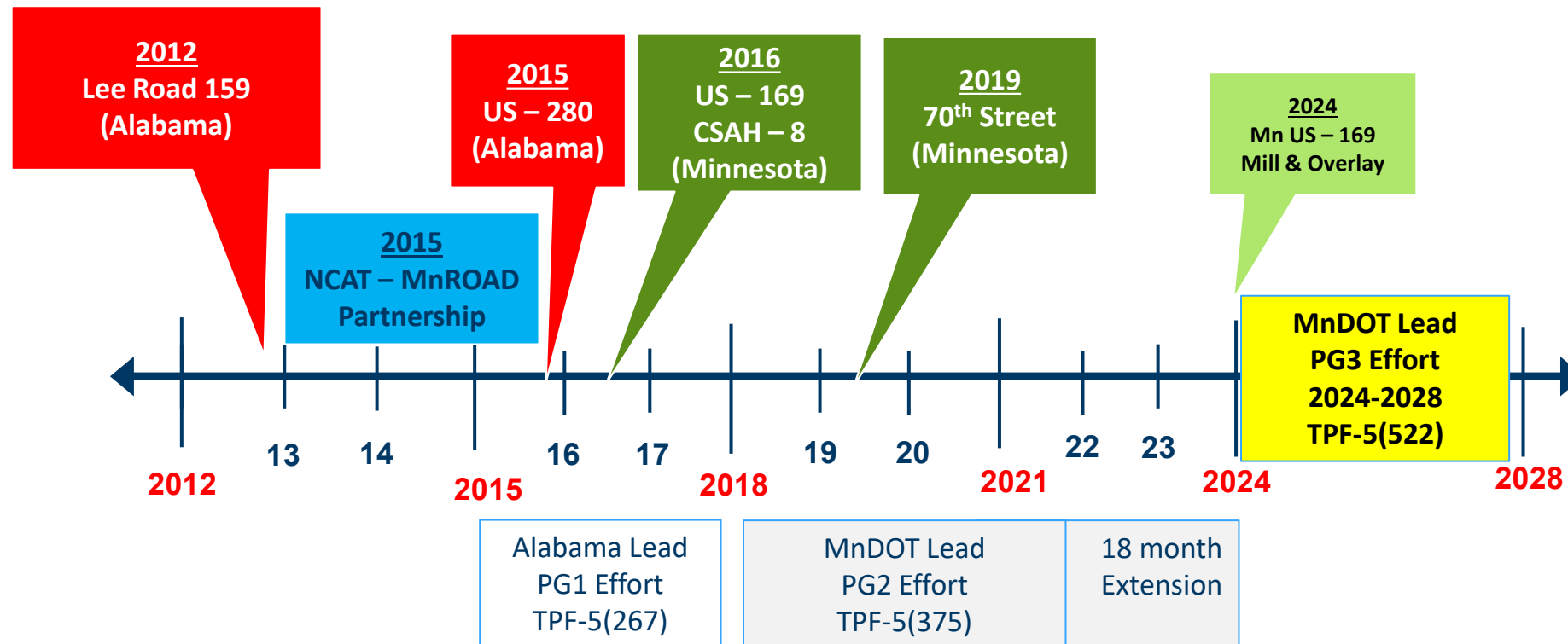
*National Partnership to Determine the Life Extending Benefits of Pavement Preservation Techniques (2018-23).*

- 70<sup>th</sup> Street NE – Rehabilitation & Thinlay Treatments

- **TPF-5(522) PG3**

*National Partnership to Improve the Quality of Pavement Preservation Treatment Construction and Data Collection Practices (2024-2028).*

# MnDOT / NCAT Partnership



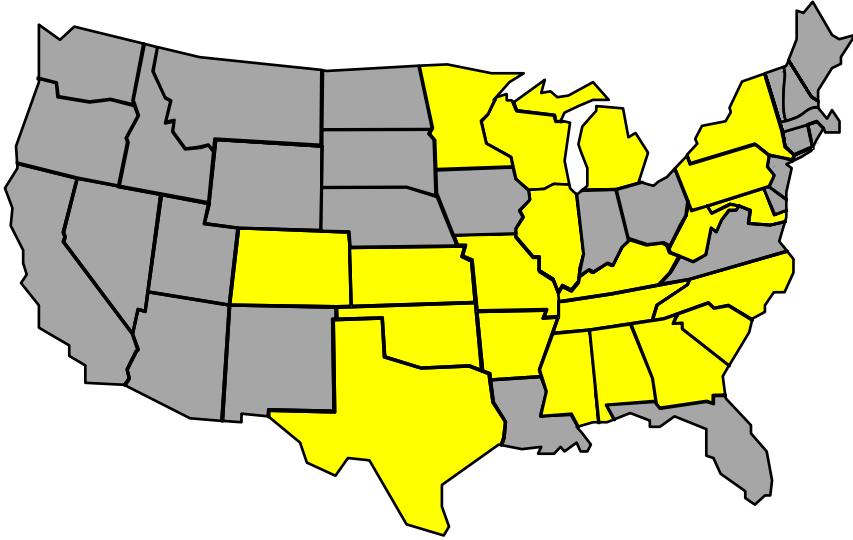
# Pavement Preservation Research Update

## PG Phase II Partners

## 21 Agencies/FHWA/FP2

\$5,150,000

Completed!

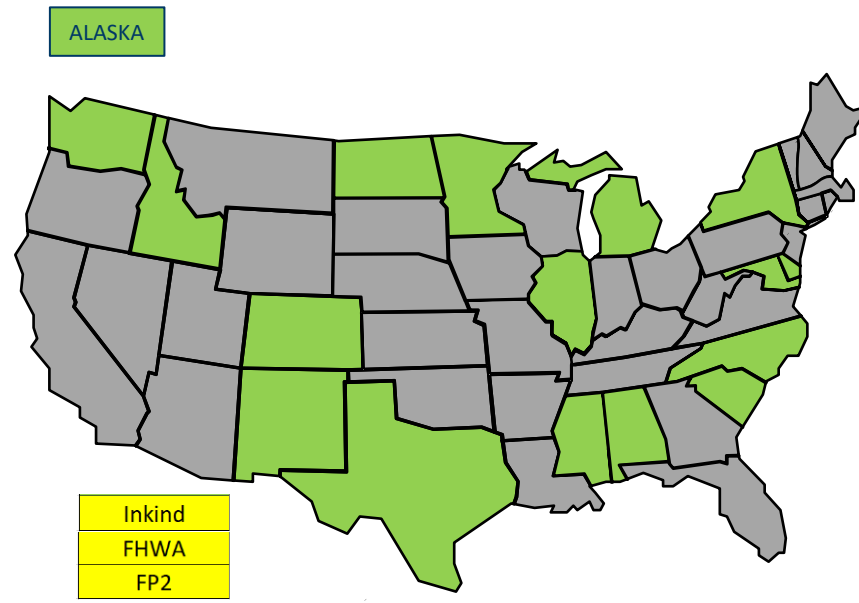


## PG Phase III Partners

## 17 Agencies

Commitment Level: \$50,000/yr., Minimum 3 years

Current budget \$4,500,000



Alabama  
Alaska  
Colorado  
Delaware  
Idaho  
Illinois  
Maryland  
Michigan  
Minnesota  
Mississippi  
New York  
New Mexico  
North Carolina  
North Dakota  
South Carolina  
Texas  
Washington

# **Pavement Preservation Future**

## **Improving the Quality of Pavement Preservation Treatment Construction and Data Collection Practices**

### **Phase III or PG3 (Jan 2024-Dec 2028)**

- **TPF-5 (522) – PG3**
- **Focus on State Implementation of Pavement Preservation Treatments**
  - Specification review
  - Preconstruction technical support & training (virtual)
  - Construction support (on-site)
  - Performance monitoring
- **Contracts with both NCPP and NCAT to support the effort**
- **Technical Advisory Panel Led (Agencies)**
  - Guidance from NCPP, NCAT, FP2, FHWA
  - Sponsor meetings
    - Two in-person/year
    - Two virtual/year
- **Pooled Fund Started January 2024 extending to December 2028**
- **Web Page: <https://pg3study.org>**

# **Pavement Preservation Future**

## **Improving the Quality of Pavement Preservation Treatment Construction and Data Collection Practices**

### **Proposed Treatment Types:**

- **Rejuvenator**
- **Chip Seal**
- **Double Chip Seal**
- **RAP Chip Seal**
- **Scrub Seal**
- **Cape Seal**
- **High Polymer Modified Slurry Seal**
- **Micro Surfacing**
- **1" HiMA Thinlay**

# **Pavement Preservation Future**

## **Improving the Quality of Pavement Preservation Treatment Construction and Data Collection Practices**

### **Scheduled Projects for 2025**

- |                  |                                                              |
|------------------|--------------------------------------------------------------|
| • Delaware       | <b>Micro Surfacing</b> (Shoulder Treatment – Buggy Ruts)     |
| • Idaho          | <b>RAP Chip Seal</b>                                         |
| • Michigan ?     | <b>Chip Seal/SAMI</b> (Stress Absorbing Membrane Interlayer) |
| • Minnesota      | <b>Cape Seal</b>                                             |
| • Mississippi    | <b>Cape Seal</b>                                             |
| • North Carolina | <b>Rejuvenator</b> (Spray Applied)                           |

# **Pavement Preservation Future**

## **Improving the Quality of Pavement Preservation Treatment Construction and Data Collection Practices**

### **Future Projects**

- **Alaska**
- **Colorado**
- **Illinois**
- **Maryland**
- **New Mexico**
- **North Dakota**
- **South Carolina**
- **Texas**
- **Washington**

**Thinlay HMA**

**Rejuvenator?** (Spray Applied)

**Polymer Modified Slurry Seal**

**Scrub Seal**

**RAP Chip Seal**

**Highly Modified Micro Surfacing**

**Scrub Seal**

**CIR**

**Chip Seal** (Modified Double Chip Seal Rut Treatment)



# THANK YOU!

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## MINNESOTA

