



# Background

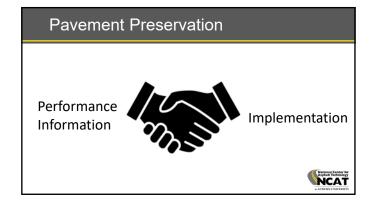
- Pavement preservation benefits are well known, BUT...
- · They depend on many variables
  - · Treatment type
  - · Existing pavement condition
  - Traffic level
  - Climate conditions

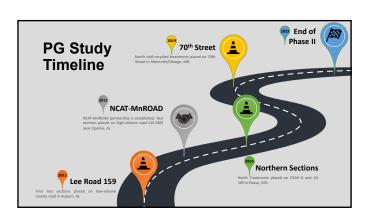


# Pavement Preservation Group (PG) Study

- · Phases I & II
  - TPF-5(267) Led by ALDOT
  - TPF-5(375) Led by MnDOT
- Objective was to quantify the life-extending benefits of various treatments



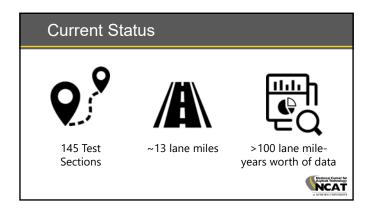




# Pavement Preservation Group (PG) Study

- Phase III
- TPF-5(522) Led by MnDOT Improving the Quality of Pavement Preservation Construction and Data Collection Practices
- Focus on State Implementation / agency demonstration projects





# Pavement Preservation Group (PG) Study

- · Two consultants
  - · NCAT (research) and NCPP (implementation)
- · Scope of work
  - · Performance monitoring of existing sections
  - · Technical assistance for the construction of new sections
  - · Development and revision of reporting requirements
  - · Performance monitoring of new sections
  - · Outreach and dissemination of results



## **Test Sections**

### **CRACK SEALING**

### **CHIP SEALS**

- Single layer
- Double layer
- Triple layer
- Single layers with crack sealing
- Fibermat
- Scrub seals\*

### MICRO SURFACES

- Single layer
- Double layer
- Single layers with crack sealing
- Fibers
- HiMA

### FOG SEALS

- Conventional
- Rejuvenating



# Phase III Sponsors OR DE LA COMOZNE AZ NA DEL COMOZNE AZ NA DEL

## **Test Sections**

### THIN OVERLAYS

- · Virgin materials
- RAP/RAS
- Polymer modified binder
- HiMA
- UTBWC
- OGFC

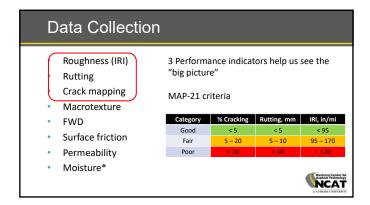
## COLD RECYCLING

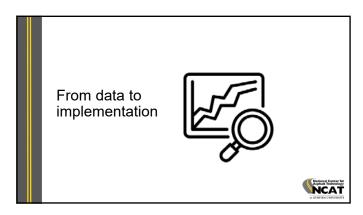
- Cold In-Place
- Cold Central Plant
- Full Depth Reclamation

COMBINATIONS

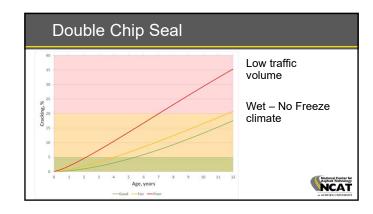


National Center for Asphalt Technology



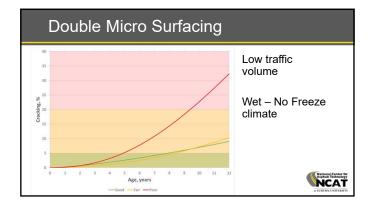


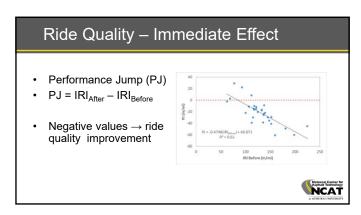
# Pavement Preservation Group (PG) Study What is the best treatment? How does each treatment perform under different conditions?

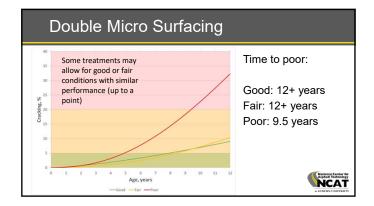


# Some Key Takeaways Importance of pre-treatment condition – timing is everything Treatment combinations: 1+1=3 What matters to YOU? Exceeding expectations Best practices lead to good performance

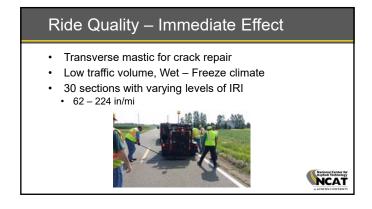


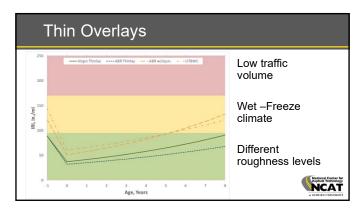


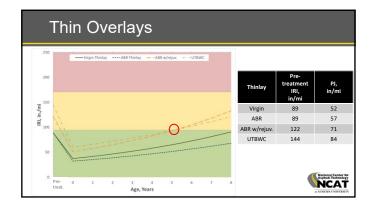
















# Final Remarks Treatment performance depends on many variables Existing pavement condition is critical Effect may be more evident in the long term Proper timing for improved cost-effectiveness NCAT resources available

