

# NCAT / MnDOT Partnership



Buzz Powell



# Content

- Partnership objective
- Focus areas
- Expected benefits
- Long-term vision.



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# Partnership Objective

To facilitate high value pavement research that addresses national needs using full-scale pavement testing facilities in both warm and cold climates on flexible, rigid, and composite pavement structures.



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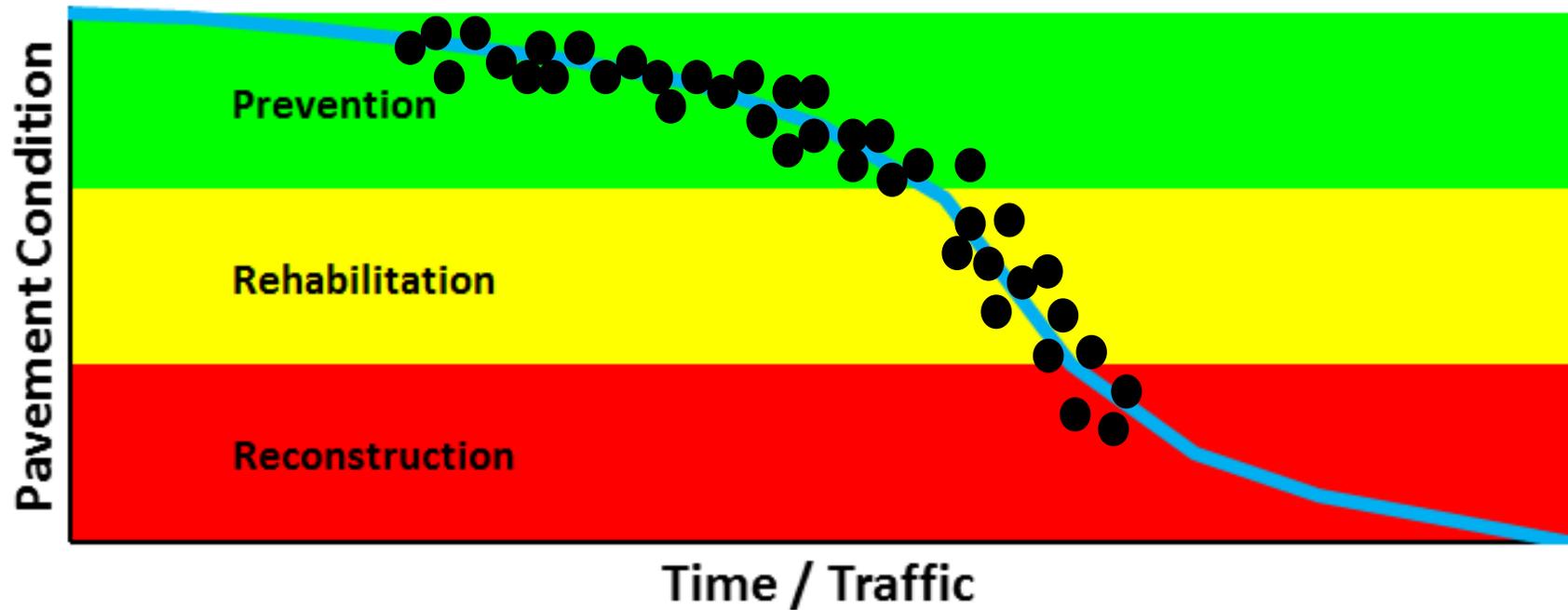
# Focus Areas

- Quantify benefits of pavement preservation
- Mix cracking test for all climates and materials.

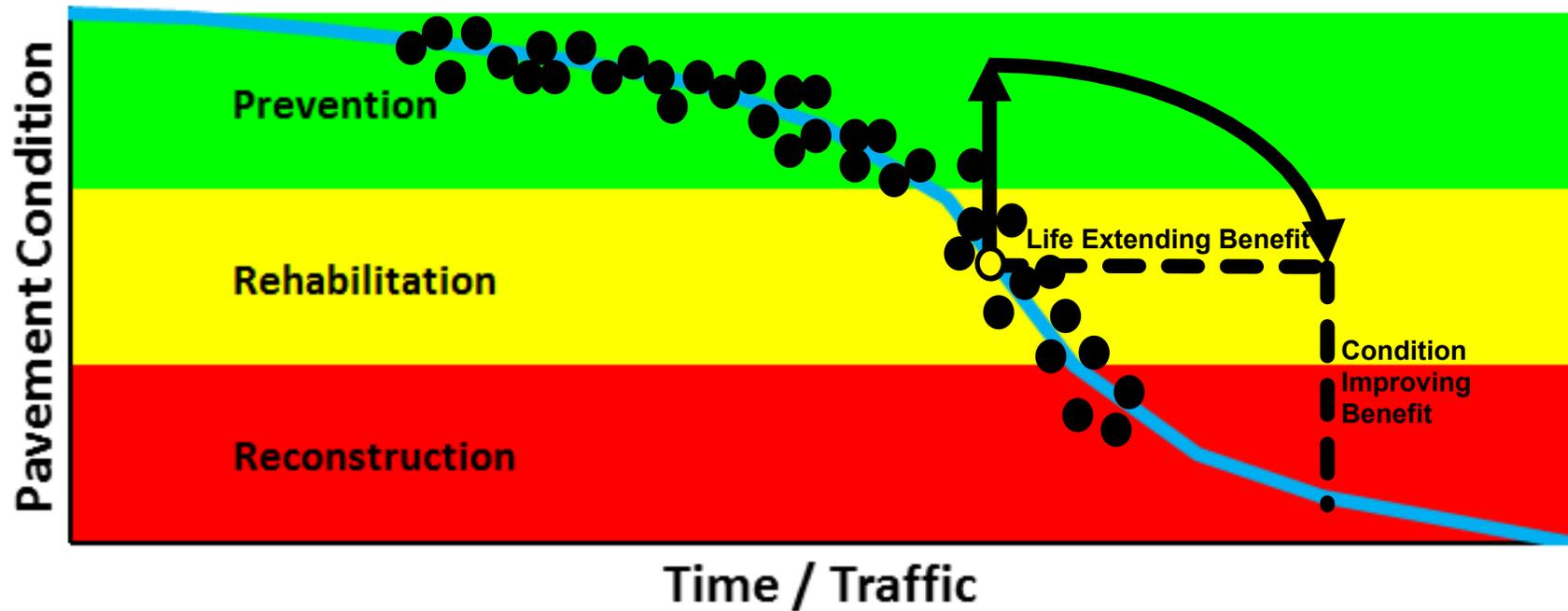


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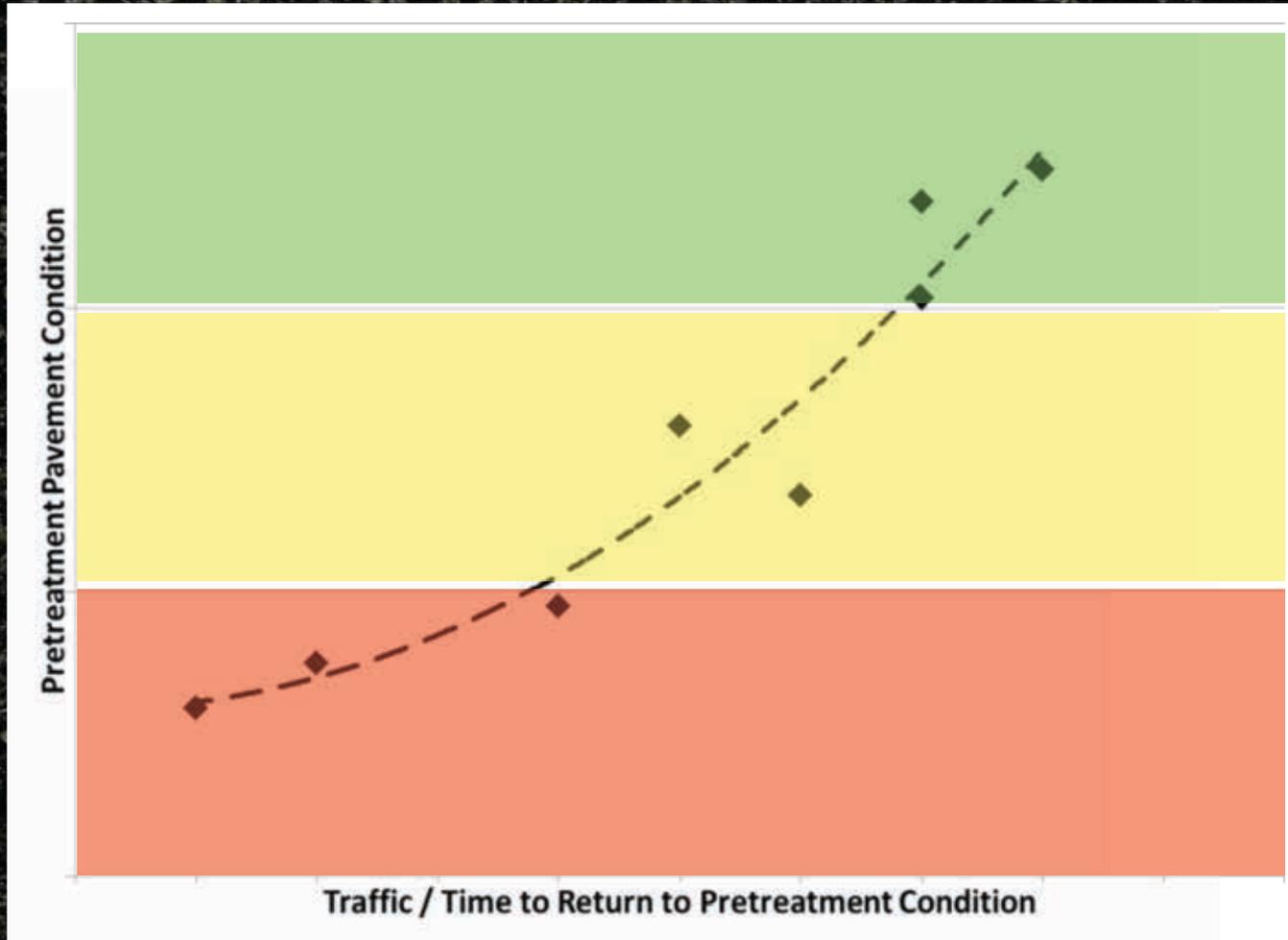
# Pavement Preservation



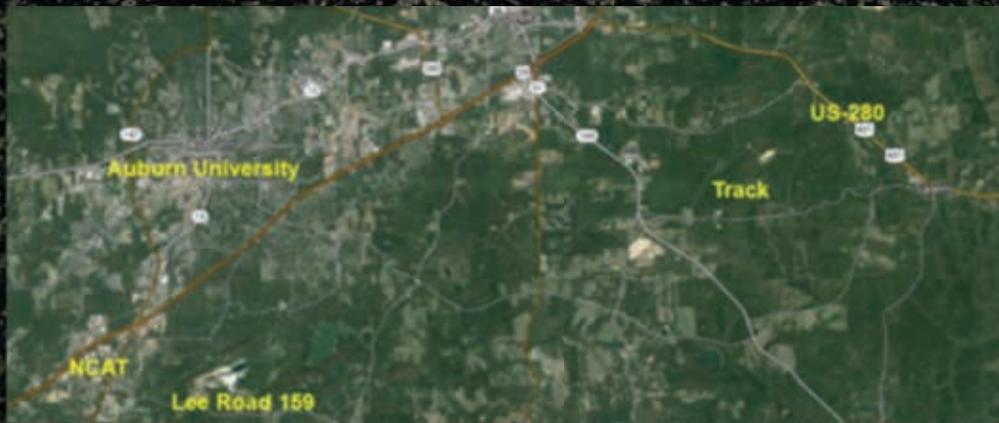
# Pavement Preservation



# Pavement Preservation



# Pavement Preservation



MnROAD Cells  
(Past and Future)  
+  
Minnesota Offsite Sections  
(High and Low Volume)

NCAT Sections  
+  
Alabama Offsite Sections  
Lee Road 159 (Low Volume)  
+  
US-280 (High Volume)



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at AUBURN UNIVERSITY

# Mix Cracking Test

- Top-down, reflection, low temperature
- Flexible, rigid, composite pavement structures
- Design approval and construction quality
- All mixes, regardless of RAP, RAS, GTR, etc.



# Benefits of Partnership

- Leverage strengths to optimize outcomes
  - Construction, data collection/management, etc.
- Relevance for both hot and cold climates
- Flexible, rigid, and composite pavements
- Improved implementation outcomes for both.

# Log-Term Vision

- Launch partnership with 2015 NCAT pooled fund
- Startup costs recovered in 3-year project cycle
- Rapid implementation of cracking test results
- Long-term preservation performance expectation
- MnDOT hosted pooled fund beyond year 4
- Permanent relationship between facilities.



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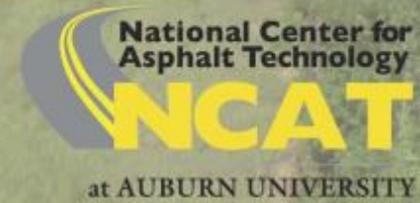
# 2015 Pavement Test Track Conference

March 3-5, 2015

The Hotel at Auburn University  
and Dixon Conference Center  
Auburn, Alabama

- ▶ WMA & High RAP/RAS/GTR Mixes
- ▶ Optimized Structural Design
- ▶ Pavement Preservation
- ▶ Implementation

Official registration information will soon be available at [www.ncat.us](http://www.ncat.us)



# www.pavetrack.com



Performance



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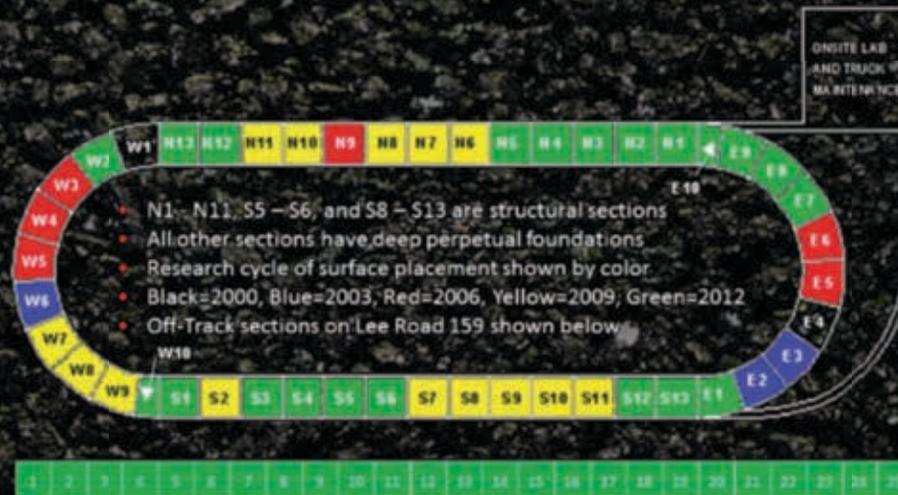
Click here for the [official NCAT web site](#), [Tracks In US](#), or [Tracks Worldwide](#)

Opelika, AL  
Get the 10 day forecast

**61°F**  
Cloudy  
Feels Like: 61°F  
Humidity: 81%  
Wind: SE at 8 mph  
Enter city/zip **GO!**

The Weather Channel  
Hit the Road  
Travel Top 10s  
Weather at 30,000 feet

Performance data for each section can be viewed by positioning your mouse over the section in question and left-clicking. Based on feedback from our research sponsors, the performance reports have been revised to include crack maps. The 2009 performance reports are now a fully integrated and active part of the web presentation.



**HOTLINKS** to download [PAVE reports](#), [review upcoming NCAT training courses](#), [query historical weather data](#), [view current color radar](#) or [preview local forecast](#)

0. ESALs as of 2300 hours on



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[www.ncat.us](http://www.ncat.us)

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