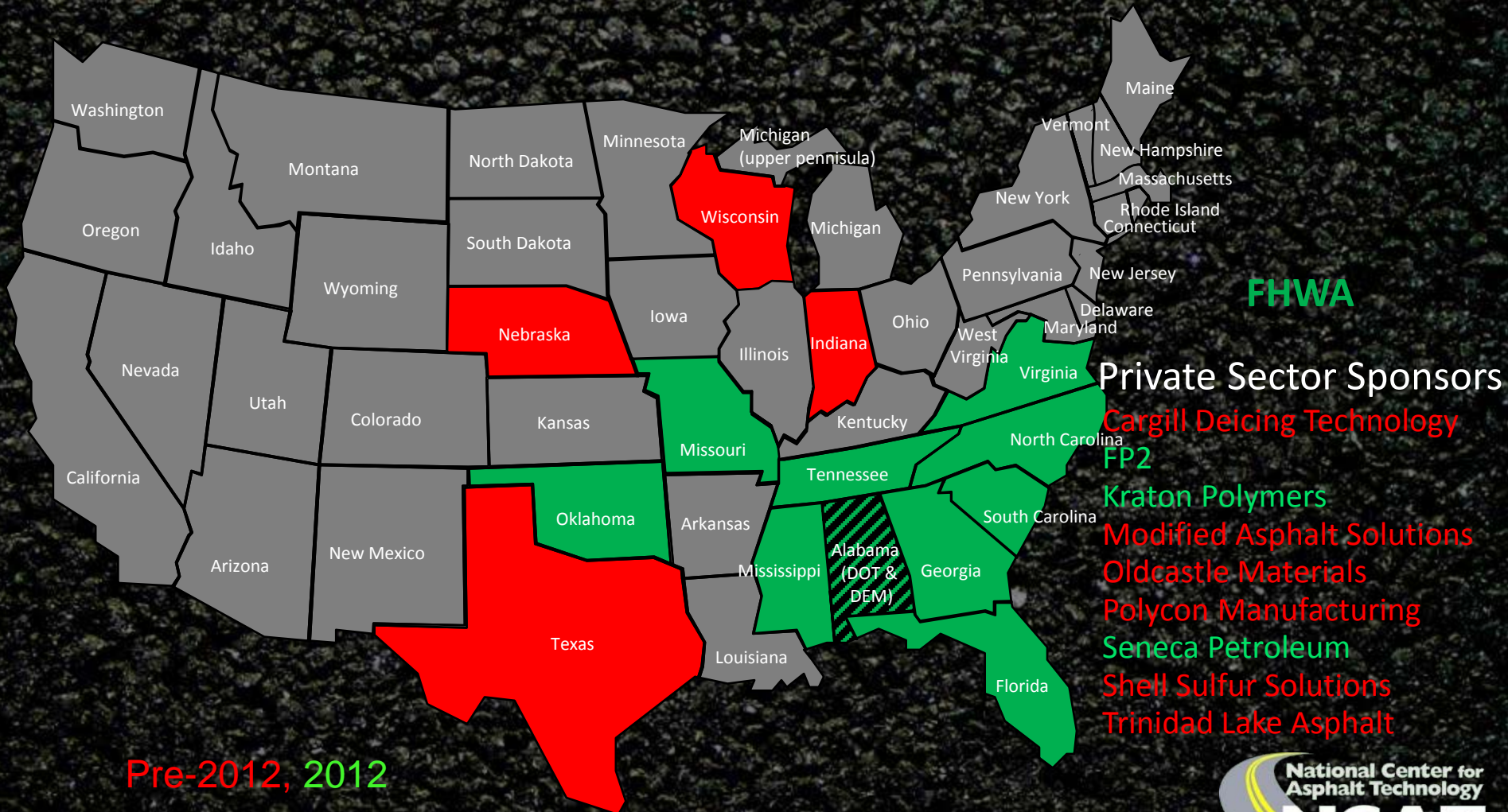


2015 NCAT/MnROAD Partnership



at AUBURN UNIVERSITY

Track Research Sponsors



FHWA

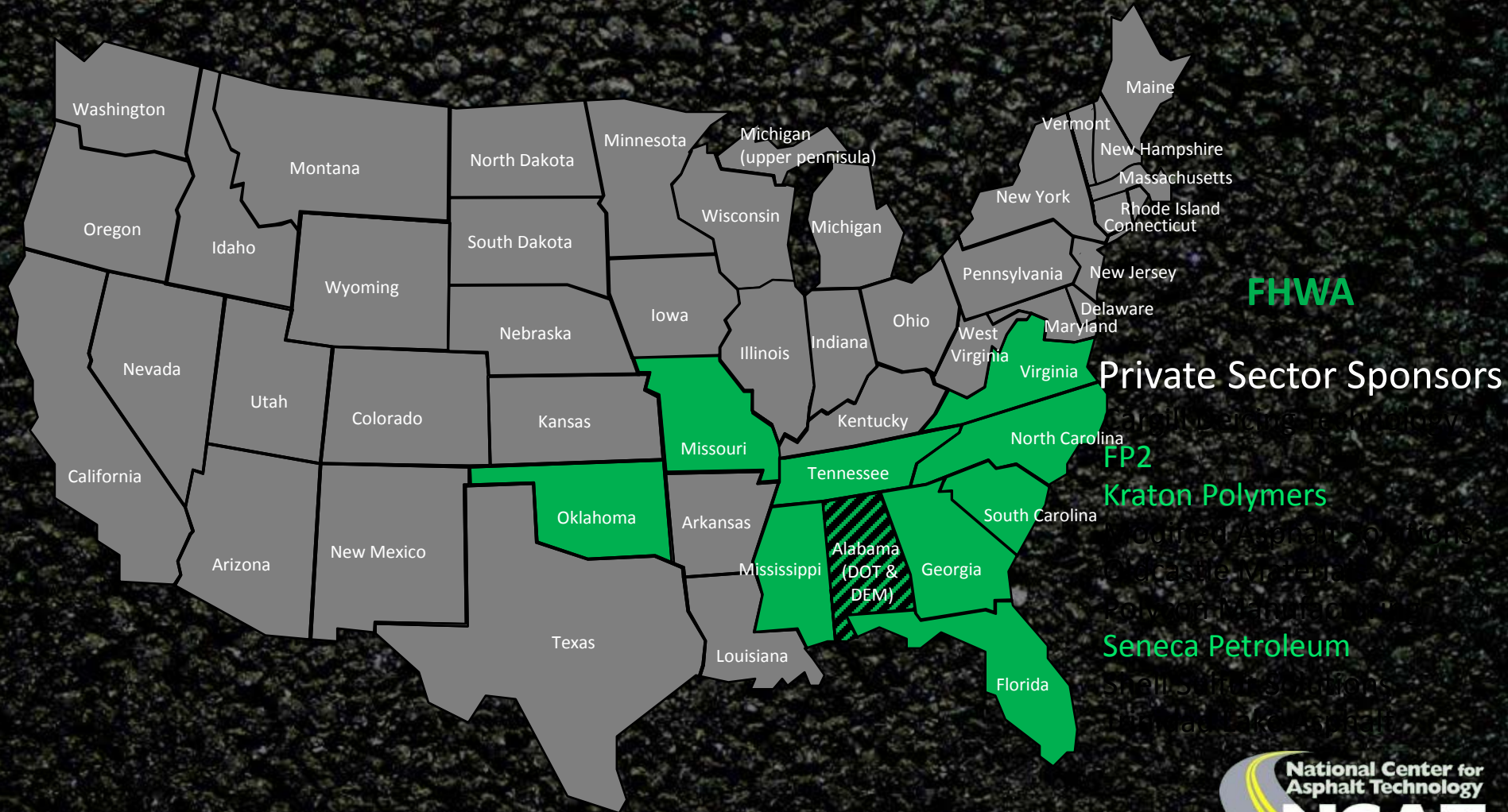
Private Sector Sponsors

- Cargill Deicing Technology
- FP2
- Kraton Polymers
- Modified Asphalt Solutions
- Oldcastle Materials
- Polycon Manufacturing
- Seneca Petroleum
- Shell Sulfur Solutions
- Trinidad Lake Asphalt

Pre-2012, 2012



2012 Track Research Sponsors



FHWA

Private Sector Sponsors

FP2

Kraton Polymers

Seneca Petroleum



at AUBURN UNIVERSITY

Content

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

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.



Partnership Objective

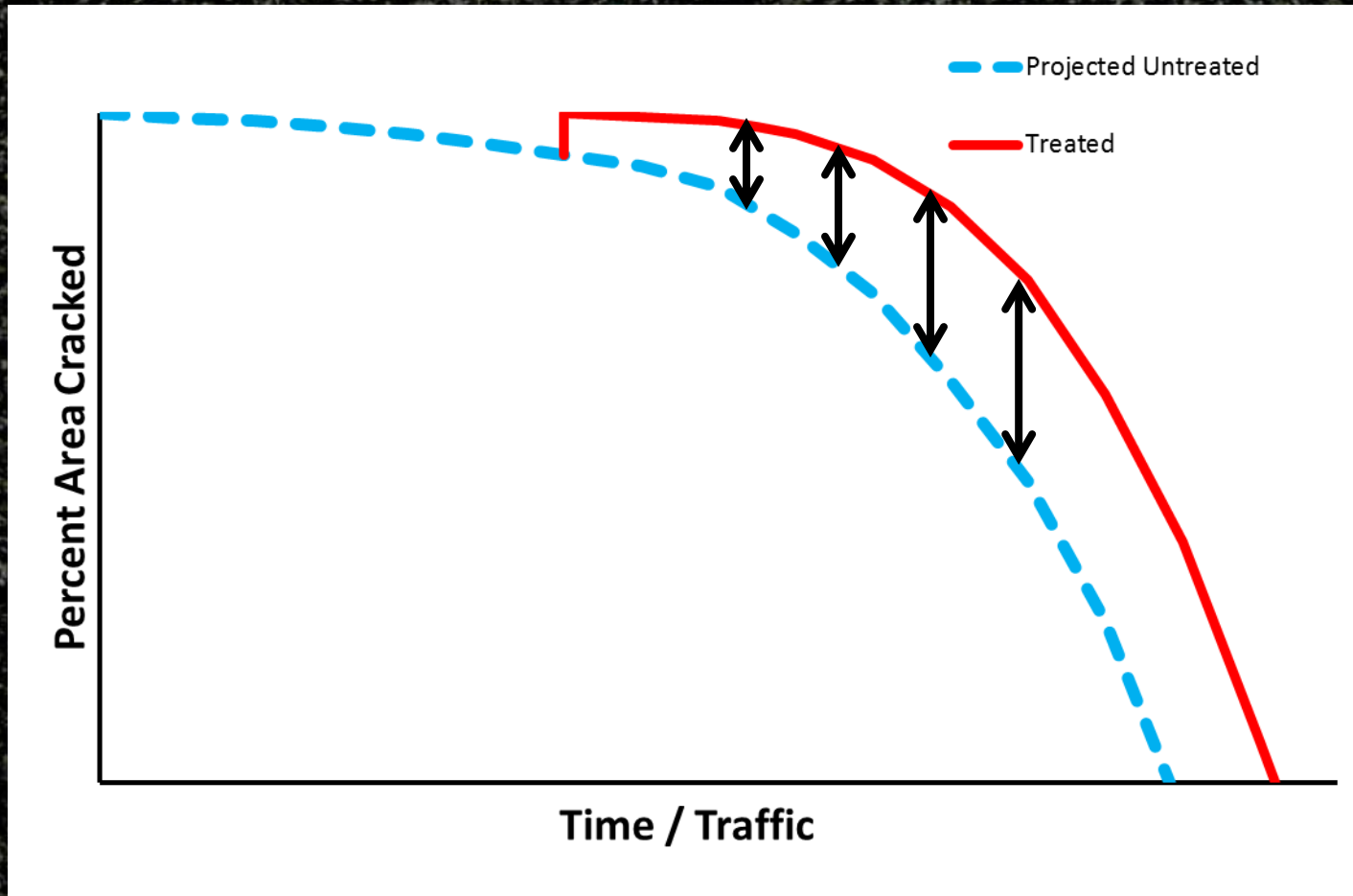
To facilitate high value pavement research that addresses national needs using full-scale pavement testing facilities in both warm and **cold climates** on flexible, **rigid**, and **composite pavement** structures.



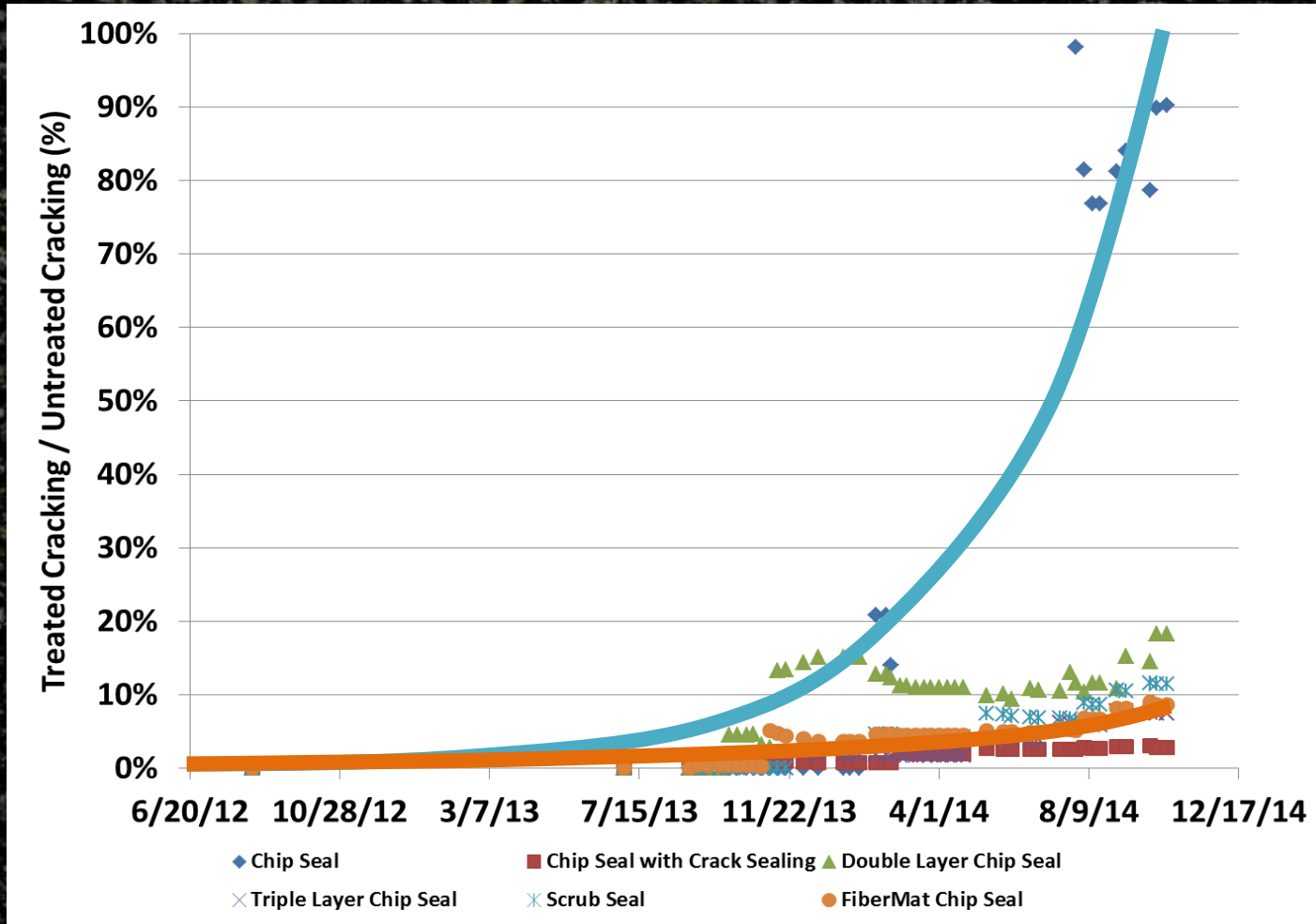
Focus Areas

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

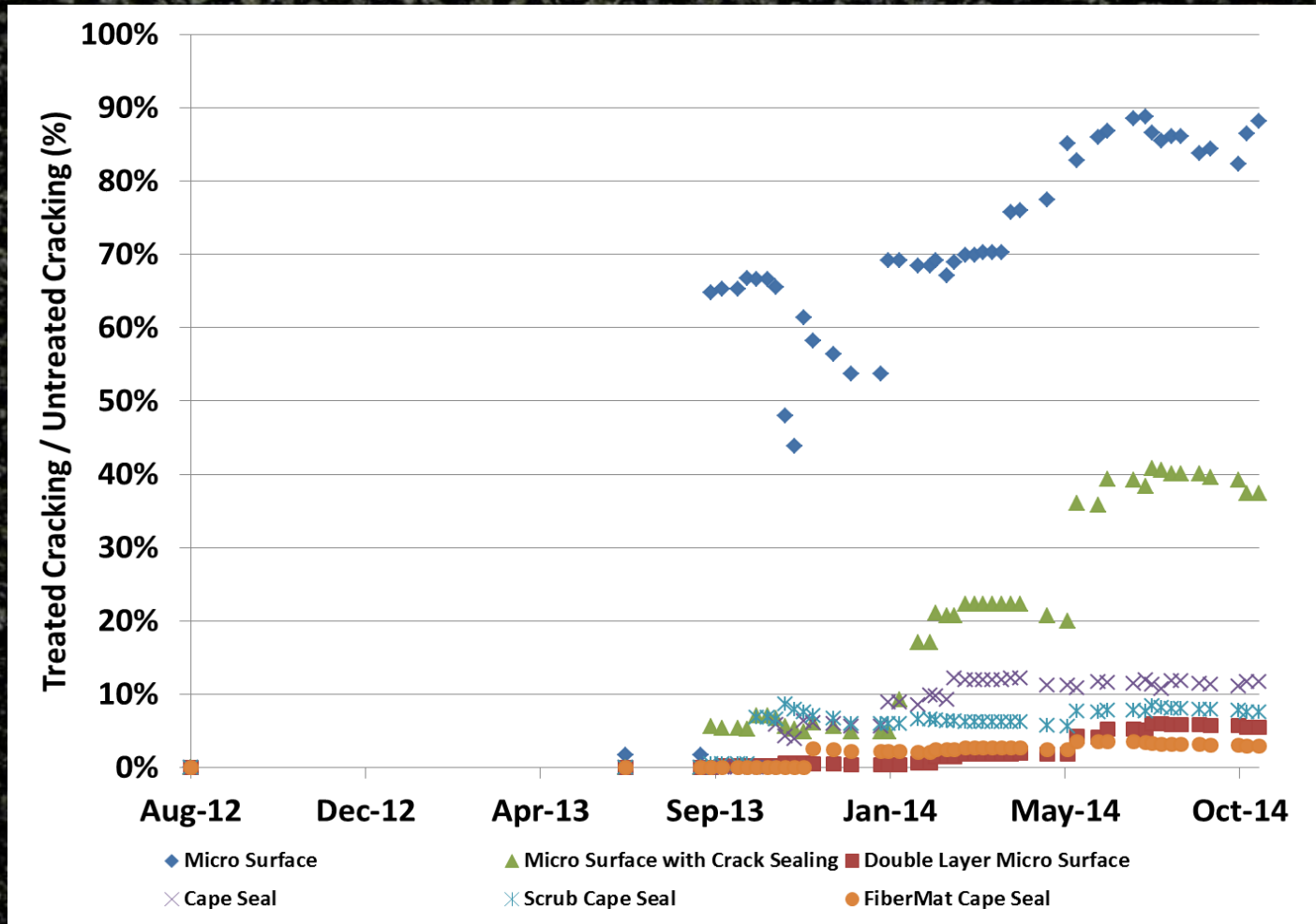
Pavement Preservation



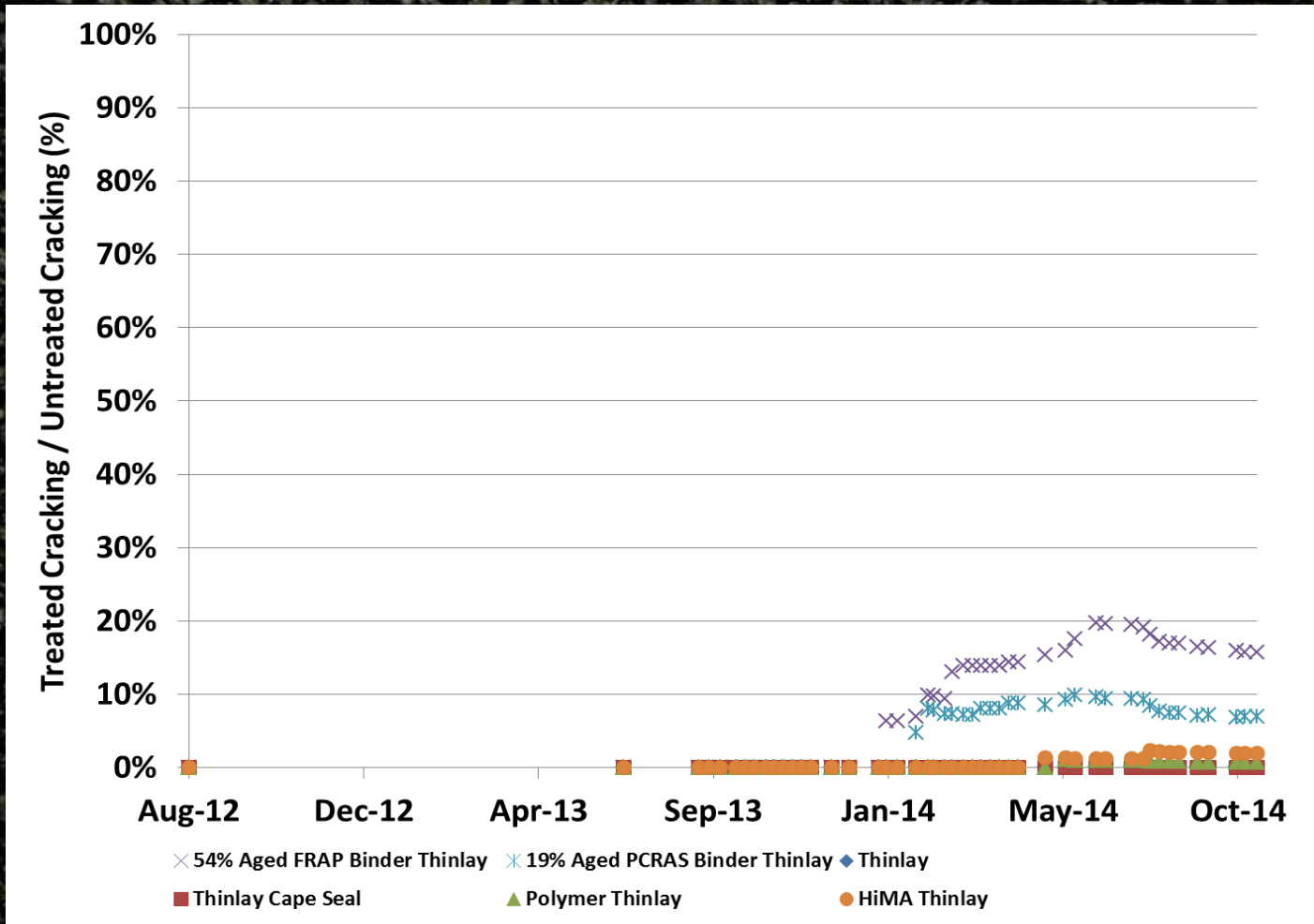
Cracking Performance



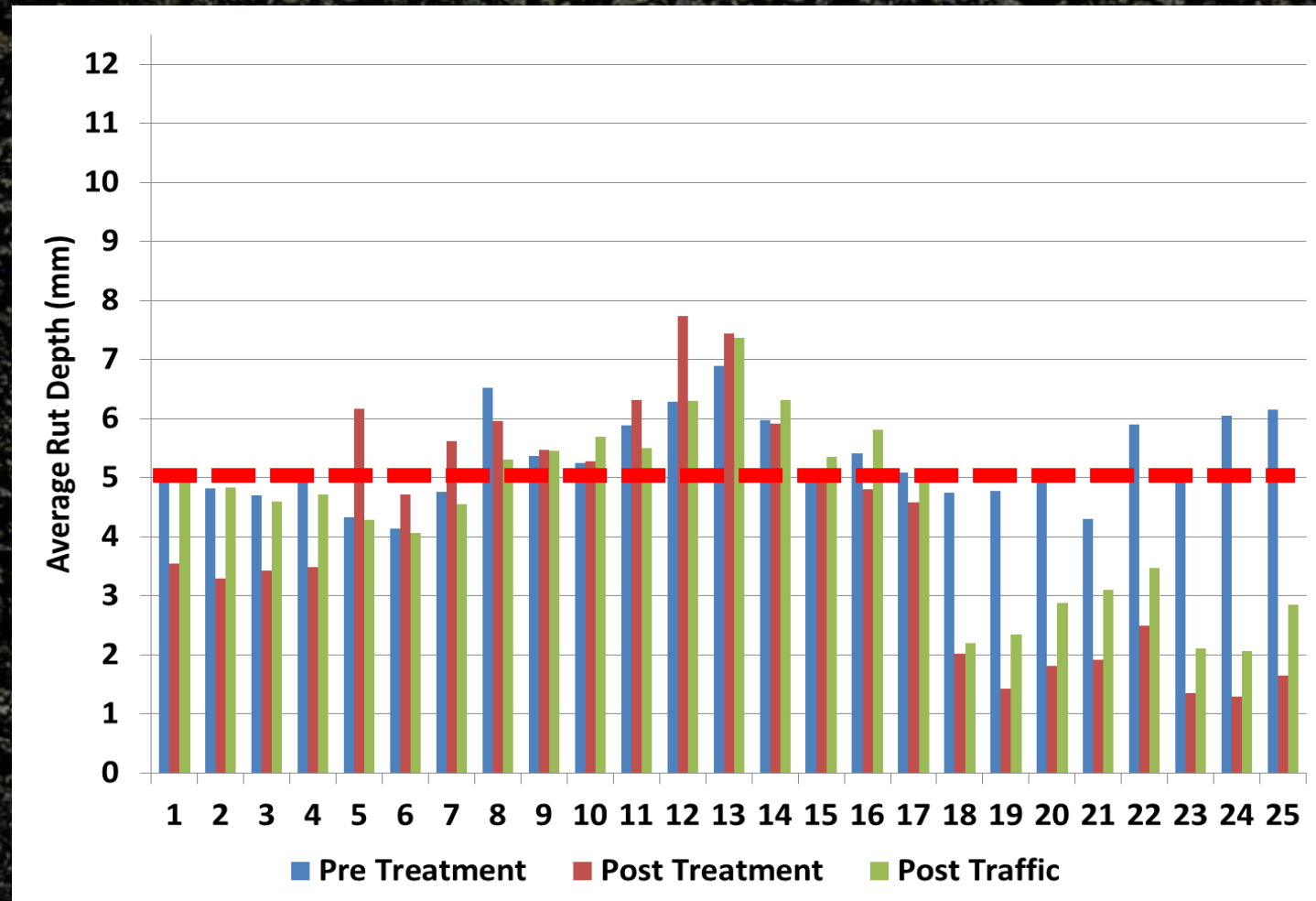
Cracking Performance



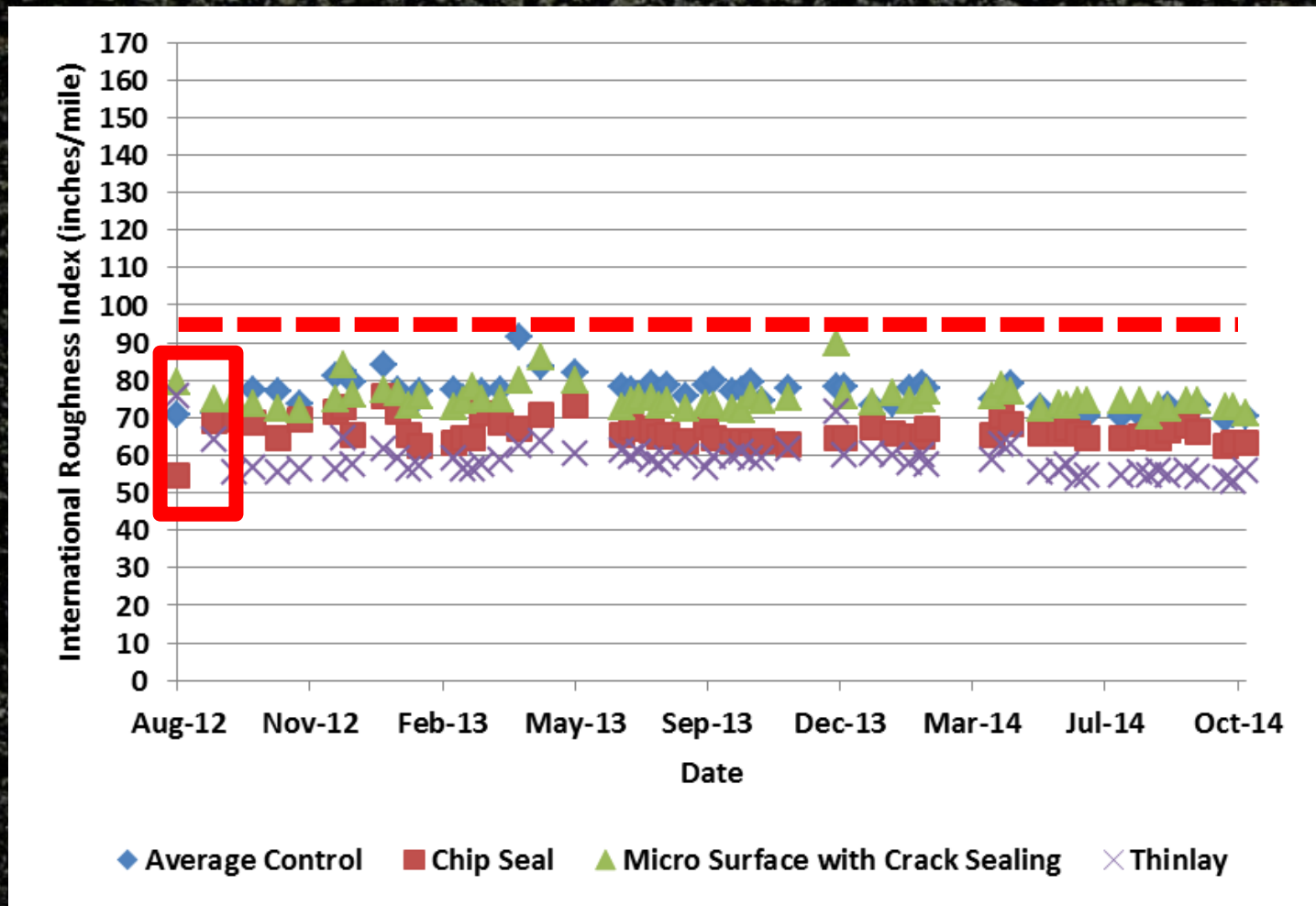
Cracking Performance



Rutting Performance



Roughness Performance



2015 Preservation Group (PG15)



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

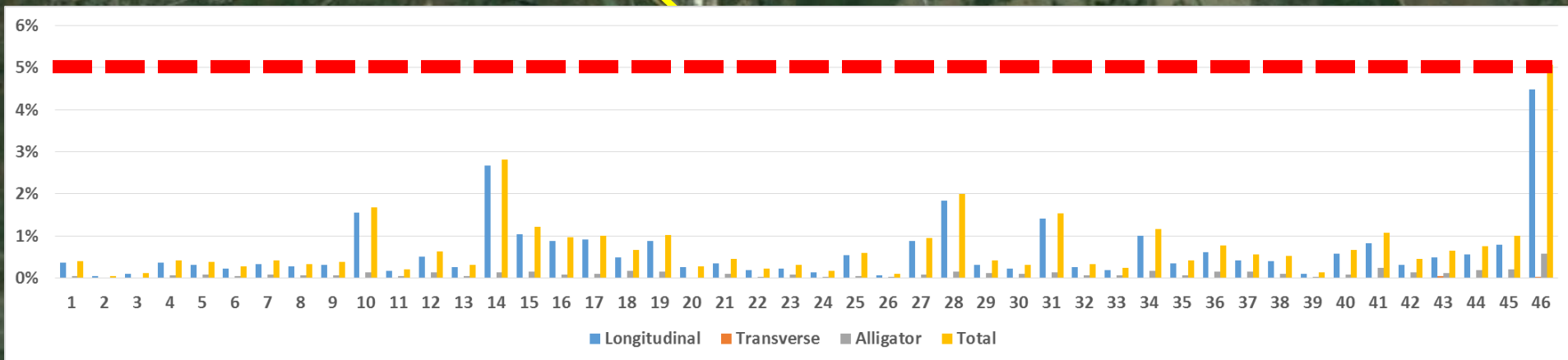
MnROAD Cells
(Past and Future)
+
Minnesota Offsite Sections
(High and Low Volume)



2015 Preservation Group (PG15)

Lee Road 391

- US-280 3 miles to east of Track
- 17,000 ADT, ≈9 year old surface
- Westbound outside lane
- ≥ MP 128.0 to MP 132.6



NCAT Track

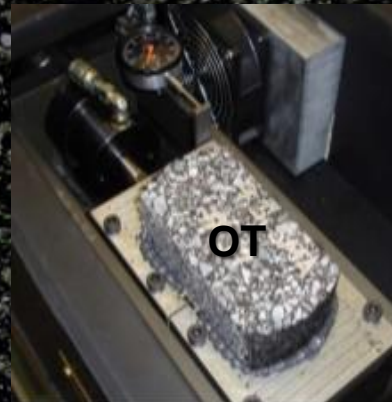
Salem

Lee Road

2015 Cracking Group (CG)

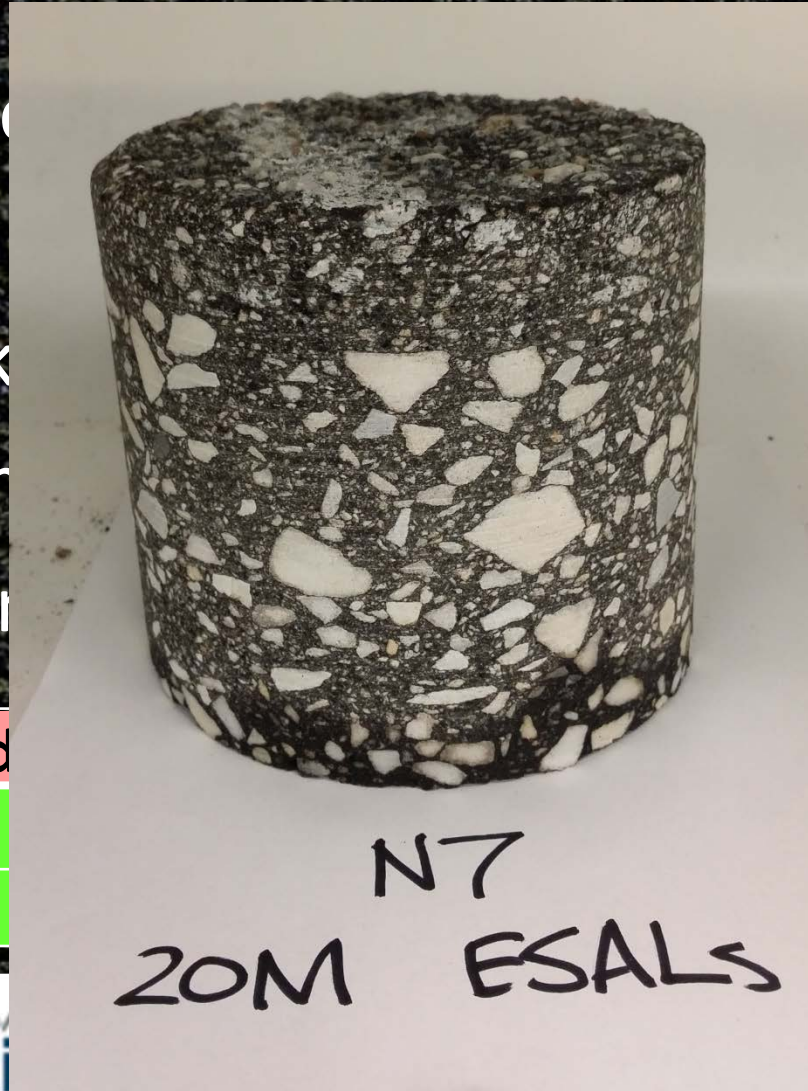
- Top-down, reflection, low temperature
- Flexible, rigid, composite pavement structures
- Design approval and construction quality
- All mixes, regardless of RAP, RAS, GTR, etc.

2015 Cracking Group (CG)



2015 Cracking Group (CG)

- NCAT surface
- Mixes with
- 6 inch thick
- Plant run m
- Same mix in

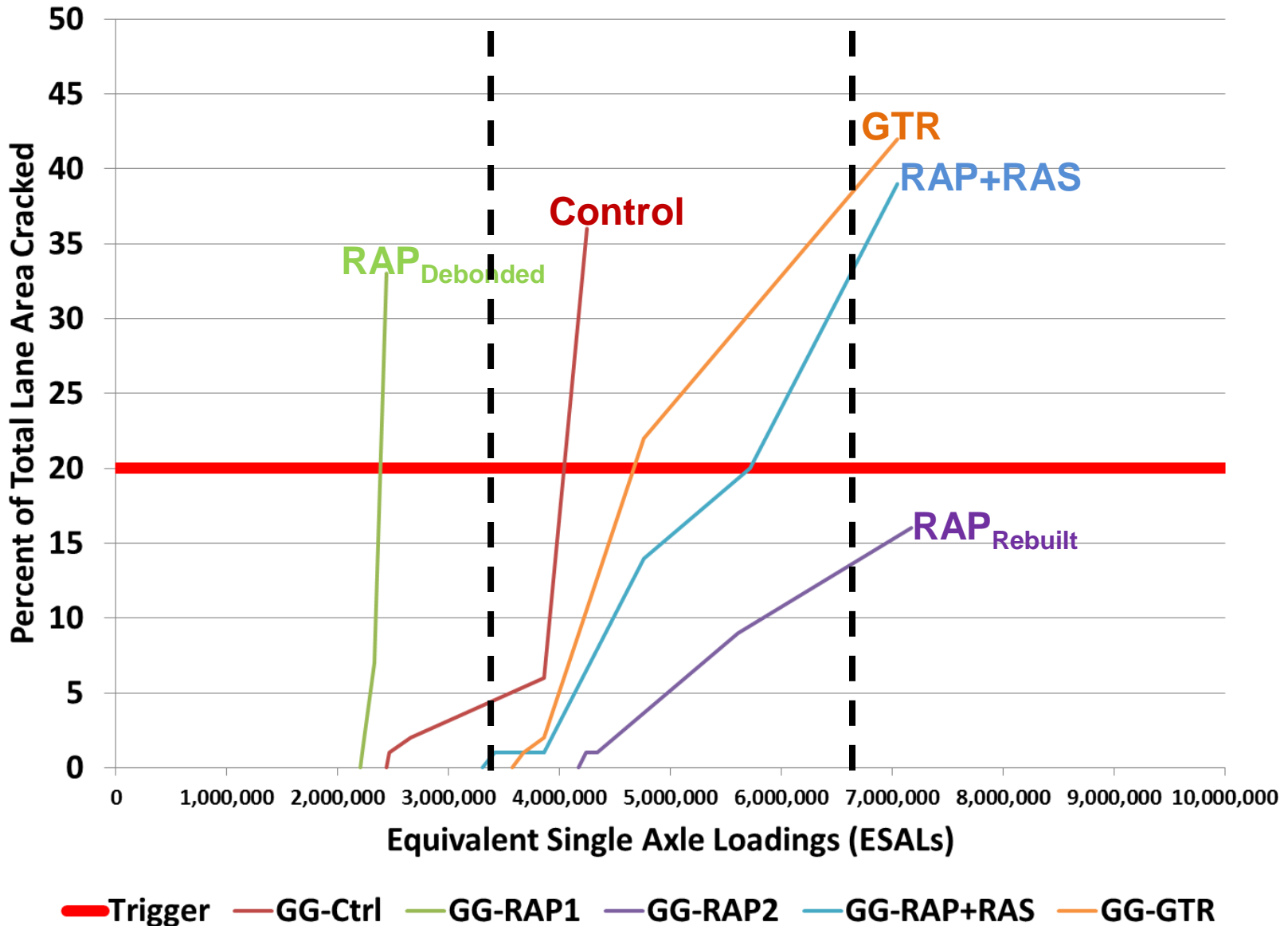


own" cracking)
 susceptibilities
 id results (GG)
 of lab tests
 duces lab costs.

Surface	Broad	
Binder		
Base		

susceptibilities	

2012 Green Group (GG) Study



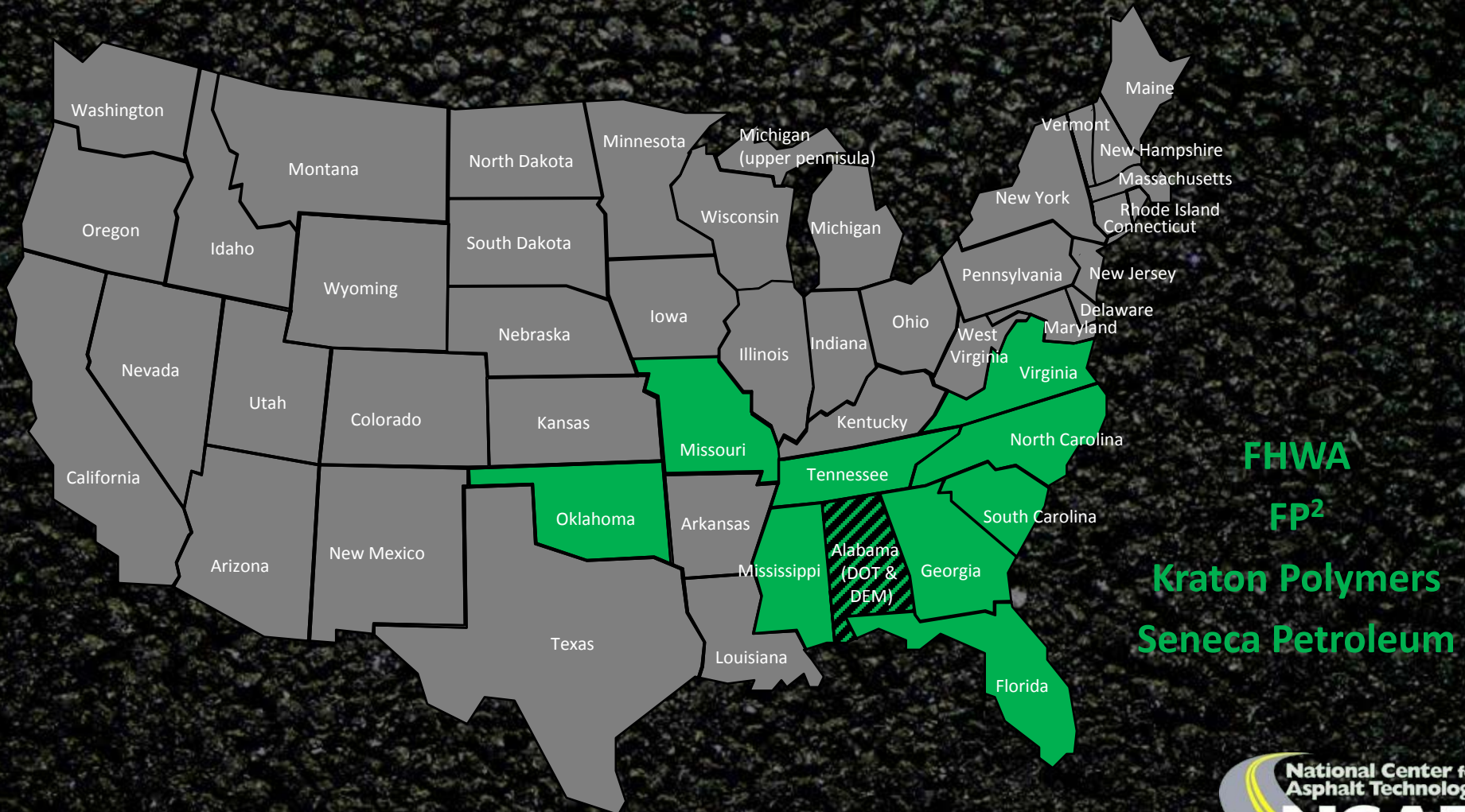
Benefits of Partnership

- 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.

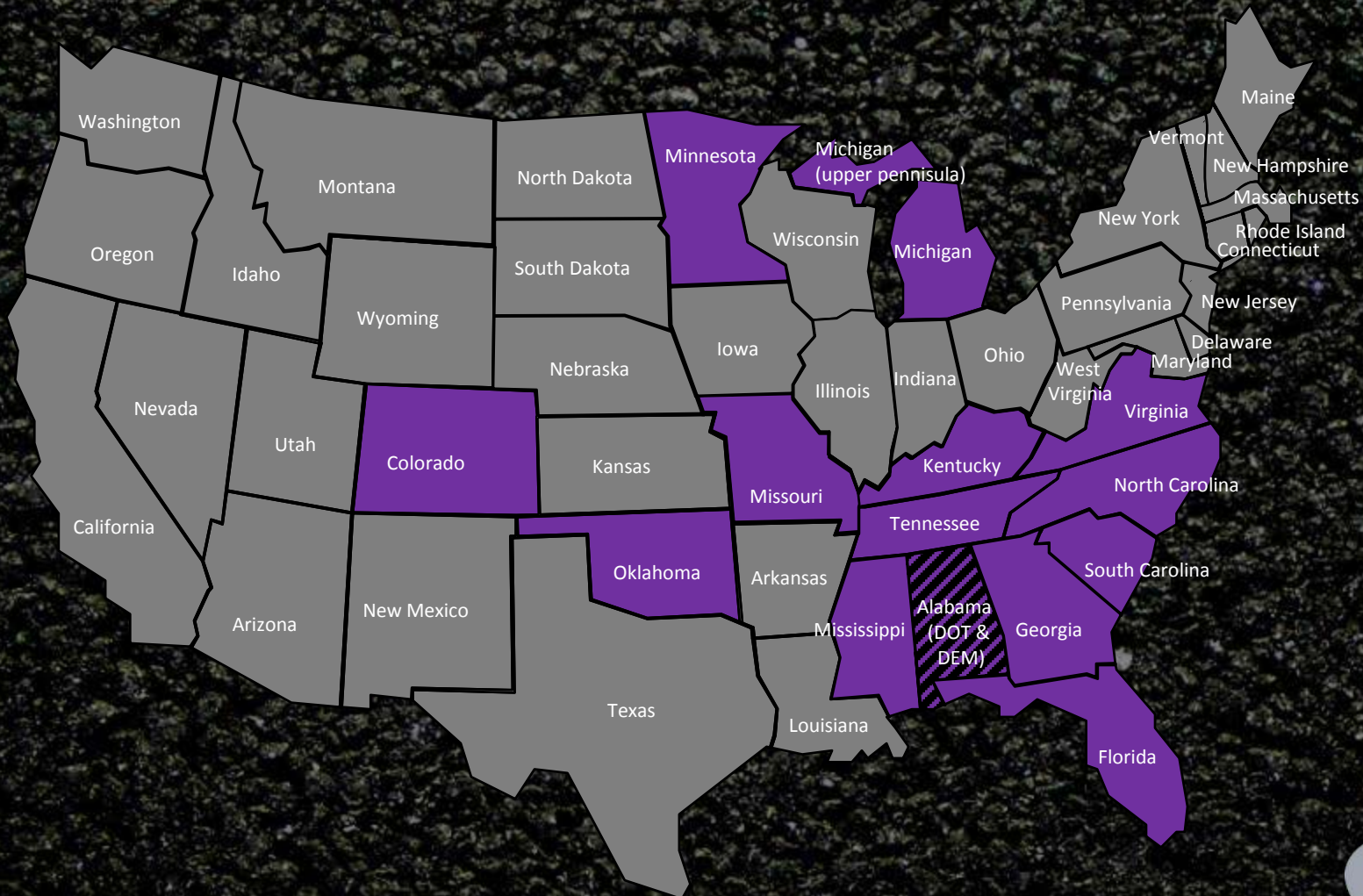
Log-Term Vision

- 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.

2012 Track Research Sponsors



2015 Track Research Sponsors



FHWA
FP²

www.pavetrack.com



Performance

PAVE

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Construction

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Performance

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

Opelika, AL
Get the 10 day forecast

61°F
Cloudy

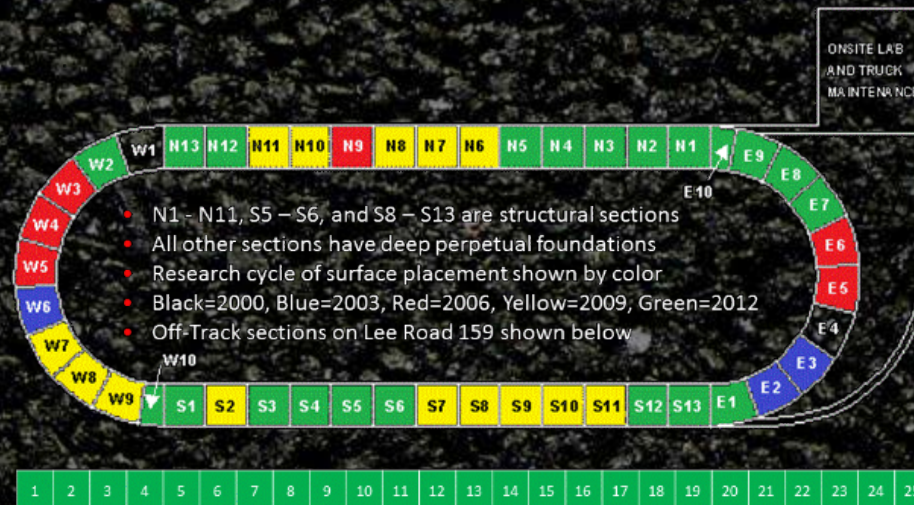
Feels Like: 61°F
Humidity: 81%
Wind: SE at 8 mph

Enter city/zip **GO!**

The Weather Channel
Hit the Road
weather.com 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

End-of-Cycle Track Conference

- High RAP/RAS balanced mix designs
- Nationwide pavement preservation
- Preventing reflective distresses
- Optimized structural design
- Implementation



Pavement Test Track Conference

March 6-8, 2018

The Hotel at Auburn University
and Dixon Conference Center

www.ncat.us





www.ncat.us

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