National Study to Quantify the Life Extending Benefits of Pavement Preservation

NCAT+MnROAD Research Partnership





Content

- Pavement preservation research need
- NCAT Pavement Test Track
- Minnesota DOT's Road Research Facility (MnROAD)
- Execution of experiment with nationwide impact





Pavement Preservation Research Need

- Safe mobility for the lowest possible life cycle cost
- Managing more lane miles with less buying power
- Many states have highly developed decision trees, but...
- Performance as a function of pretreatment condition
- Pavement condition metric requirements in MAP-21.





Pavement Preservation Research Need





















2012 NCAT Pavement Test Track



MnROAD

- MnROAD Owned and Operated by MnDOT
- 20-Years of Long Term Customer Service
 - Minnesota Department of Transportation
 - Minnesota Local Road Research Board
 - Pooled Funds Efforts (States) / Industry
 - SHRP II / FHWA
- Major Experiments
 - Phase I (1994-2006)
 - Phase II (2007-2016)
 - Phase III (Currently Planning → National Facility)















NCAT-MnROAD Partnership













Partnership Vision for Nationwide Impact

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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