# RPUG 2023

St. Louis, MO / Southern Illinois

# THE GATEWAY

TO KNOWLEDGE ABOUT SURFACE CHARACTERISTICS

# TPF-5(299)/(399) POOLED FUND UPDATES

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Illinois Department of Transportation



# Outline

- Transportation Pooled Fund (TPF) 5-(299)/(399) Study Background
- TPF-5(299)/(399) Activities and Reports

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# TPF-5(299)/(399) Background

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TPF-5(299)/(399) 24 State Departments of Transportation (DOT) (Federal Highway Administration (FHWA) Administered): Improve the Quality of Pavement Surface Distress and Transverse Profile Data Collection and Analysis by assembling State DOTs, the FHWA, and industry representatives to:

- Focus: rutting, cracking, and faulting
- Identify data collection integrity and quality issues
- Identify data analysis needs
- Suggest approaches to addressing identified issues and needs

#### **Based on this information, the State DOTs and the FHWA will:**

- Initiate and monitor projects intended to address identified issues and needs
- Disseminate results
  Assist in solution deployment







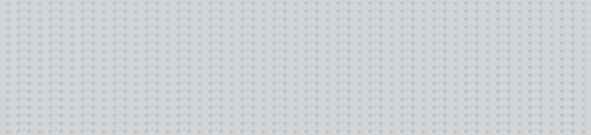
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# TPF-5(299)/(399) Activities and Reports

### **TPF Activities and Reports**

- Calibration and Verification of Transverse Pavement Profile Measurements
  - Publication FHWA-RC-20-004/ <u>https://www.fhwa.dot.gov/pavement/pub\_details.cfm?id=1109</u>
  - American Association of State Highway and Transportation Officials (AASHTO) Standards approved
- Standard Data Format for 2D/3D Pavement Image Data
  - Publication FHWA-RC-20-001/ <a href="https://www.fhwa.dot.gov/pavement/pub\_details.cfm?id=1108">https://www.fhwa.dot.gov/pavement/pub\_details.cfm?id=1108</a>
  - AASHTO Standard MP 47
- Developing Guidelines for Cracking Assessment for Use in Vendor Selection Process for Pavement Crack Data Collection/Analysis Systems and/or Services
  - Publication FHWA-RC-20-005/ <u>https://www.fhwa.dot.gov/pavement/pub\_details.cfm?id=1119</u>
- Successful Practices for Quality Management of Pavement Surface Condition Data Collection and Analysis
  - Publication FHWA-RC-20-007/ https://www.fhwa.dot.gov/pavement/pub\_details.cfm?id=1120
- Jointed Concrete Pavement Faulting Collection and Analysis Standards ongoing

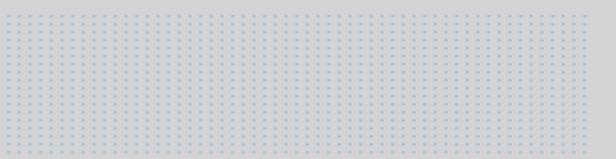






# **Additional Activities**

- National Cooperative Highway Research Program projects:
  - 01-60 "Measuring the Characteristics of Pavement Surface Images and Developing Standard Practices for Calibration, Certification, and Verification of Imaging Systems"
  - 20-7 Task 411 "Review and Update of AASHTO Standard Practice R 87" Rut and Cross Slope
  - 01-57A "Standard Definitions for Comparable Pavement Cracking Data" <u>https://www.nap.edu/download/25928#</u>
  - -01-57B "Validating Proposed Definitions for Comparable Pavement Cracking Data" starting in 2023



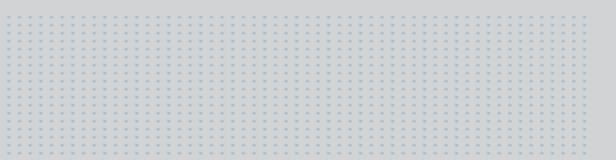




# TPF-5(299)/(399) Ongoing and Planned Activities

Validation and Refinement of Transverse Pavement Profiler AASHTO Standards: PP 106, 107, 108, 109, 110, and 111

- Standards proposed as Certification Standards
- Develop analysis software (similar in concept to longitudinal profiler certification software)
- Investigate Enhancements to AASHTO R87: Rut and Cross-Slope Definitions









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