TPF-5(354) IMPROVEMENT OF PROFILE MEASUREMENT QUALITY

David Huft, SD Department of Transportation

Road Profiler User Group Denver, Colorado November 15, 2017

Why a Study?

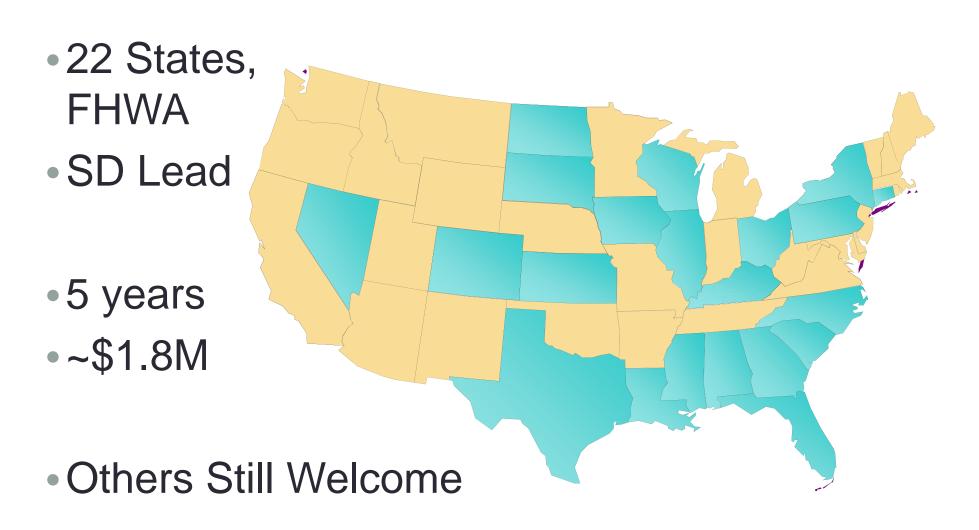
- New profiling technology
- Federal pavement performance reporting requirements
- Data quality requirements
- Construction acceptance specifications
- Workforce transition in agencies and construction industry
- Pavement rehabilitation innovations

Study Goals

- Continue and extend the work of TPF-5(063), led by FHWA
- Enable States and FHWA to:
 - identify data integrity and quality issues re/measuring and analyzing profiles
 - suggest solutions to identified problems
 - initiate projects to address identified problems
 - disseminate results
 - assist in deployment

- Deliver sample procurement maintenance guidelines
- Direct development and maintenance of pavement profile analysis software
- Establish criteria for profile verification and assist with development of validation sites
- Develop and deploy pavement profile reference devices and verification processes
- Provide technical support for and meet at RPUG

Participation



Research Priorities

- Implementation of Urban/Low Speed Profile Measurement
- Alternative Concepts for Profile Measurement
- Best Practices for Profiler Certification
- Guidelines for Operator Certification
- Support for AASHTO Specifications
- Profiling Fundamentals Training (survey)
- Data Quality Management Plan Template
- Standard Process for Producing Profile from 3D Surface

Research Priorities: ProVAL

- Software Maintenance & User Support
- Documentation, Software Stewardship
- Software Enhancements
 - Smoothness Assurance Module
 - Grinding Optimization
 - Curl & Warp Analysis
 - Reporting Conveniences
 - Feasibility of Grinding, Overlay Analysis
- ProVAL Training (FHWA)
- Training Modules

Next Steps

- Research Project Selection
- Panels for RFP Development and Project Oversight
- RFPs early 2018
- Contracts spring 2018
- Bi-monthly Interim Online Meetings
- Face-to-Face Meeting at 2018 RPUG in South Dakota

Questions?

Please contact:

David Huft

Research Program Manager

SDDOT

605.773.3358

dave.huft@state.sd.us