







# TPF-5(299) Improving the Quality of Pavement Surface Distress and Transverse Profile Data Collection and Analysis - Outline

- Pooled Fund (PF) study formation
- Activities
- Consider Joining





# TPF-5(299) Study Formation

- Started 2013
  - 1st meeting May 2014
  - 1st project contract award August 2015
- Why formed
- Administration



## Why Formed

- Industry changes
  - Service
  - Technology
- State changes
  - Programmatic
  - MEPDG
- National changes
  - MAP-21 (Performance)
  - HPMS

- Need to get data
  - Efficiently
  - Accurately
  - Safely





# Why Formed

Methodology	Fast	Safe	Repeatable and Objective
Walking			
Windshield	<b>√</b>		
Semi-Automated	<b>√</b>	✓	
Automated	<b>√</b>	✓	✓





# ETG Formed in 2006 - Members as of April 2013

#### FHWA

- Thomas Van, HQ Asset Management
- Jack Springer, TFHRC
- Andy Mergenmeier, RC
- Mike Moravec, HQ Pavements

#### States

- Rick Miller, Kansas DOT
- John Andrews, Maryland SHA
- Magdy Mikhail, Texas DOT
- Bouzid Choubane, Florida DOT
- Cole Mullis, Oregon DOT
- Judith Corley-Lay, North Carolina DOT

#### Industry

- Gary Elkins, MACTEC
- Frank Holt, Dynatest
- Jerry Daleiden, Fugro
- Richard Fox-Ivey, Pavemetrics



# Why Formed

- Rutting/Cracking Expert Task Group active for several years
  - Did not have the mechanism to conduct studies (\$\$\$\$)
  - April 2013 ETG recommended pooled fund study due to the success of TPF-5(063) Pavement Profiling effort. FHWA administrator



### Administration

- FHWA is administrator use Federal contracting procedures
- Technical Advisory Committee funding agencies
  - Approval
- Friends all others
  - Provide input, collaboration, assistance
- Funding commitment \$1.7 million
  - Other Funds





TPF-5(299) Objectives: Improve the Quality of Pavement Surface Distress and Transverse Profile Data Collection and Analysis by assembling SHAs, the FHWA, and industry representatives to:

- Identify data collection integrity and quality issues
- Identify data analysis needs
- Suggest approaches to addressing identified issues and needs
  Based on this information, the SHAs and the FHWA will:
- Initiate and monitor projects intended to address identified issues and needs
- Disseminate results
- Assist in solution deployment



- Support RPUG
- Develop Research Needs Statements
  - AASHTO, TRB, FHWA funding by others



- Development of Standard Data Format for 2-Dimensional and 3-Dimensional (2D/3D) Pavement Image Data that is used to determine Pavement Surface Condition and Profiles – contract complete
  - Follow up contract for Independent Evaluation of Data
    Format ongoing Georgia Tech majority of funding from FHWA
- Calibration and Verification of Transverse Pavement Profile
   Measurements ongoing Virginia Tech majority of funding
   from FHWA
- Contract currently advertised Developing Guidelines for Cracking Assessment for Use in Vendor Selection Process for Pavement Crack Data Collection/Analysis Systems and/or Services





- RFP's under development:
  - Guidance for Quality Management of Pavement Surface Condition Data Collection
  - Jointed Concrete Pavement Faulting Collection and Analysis Standards
- NCHRP funded projects:
  - Synthesis 49-15 "Summary of Practice for Automated Pavement Condition Surveys"
  - 01-60 "Calibration and Verification of Pavement Surface Images" – RFP to be issued soon
  - 20-7 project 411 "Pavement Rutting Condition Measurement and Analysis Methodologies"
  - 01-57 "Standard Definitions for Comparable Pavement Cracking Data", contract ongoing



## **Considering Joining**

- 21 state DOT agencies providing funds
- Friday Meeting 8 am
  - Chairman: John Andrews, MD SHA
- Pooled Fund Study SharePoint site:
  - https://collaboration.fhwa.dot.gov/default.aspx
  - Register



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**Questions/Comments** 

