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

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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

<table>
<thead>
<tr>
<th>Methodology</th>
<th>Fast</th>
<th>Safe</th>
<th>Repeatable and Objective</th>
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<tbody>
<tr>
<td>Walking</td>
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<td>Windshield</td>
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<td>Semi-Automated</td>
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<td>Automated</td>
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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
Activities

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
Activities

• Support RPUG

• Develop Research Needs Statements
  • AASHTO, TRB, FHWA – funding by others
Activities

• 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
Activities

• 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