

## TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Virginia DOT (VDOT)

### INSTRUCTIONS:

*Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.*

<b>Transportation Pooled Fund Program Project #</b> <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i>  <b>TPF-5(345) Pavement Surface Properties Consortium – A Research Program at the Virginia Smart Road Phase II</b>		<b>Transportation Pooled Fund Program - Report Period:</b> <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input type="checkbox"/> Quarter 2 (April 1 – June 30) <input type="checkbox"/> Quarter 3 (July 1 – September 30) <input checked="" type="checkbox"/> Quarter 4 (October 1 – December 31)	
<b>Project Title:</b> <div style="text-align: center;"><b>Pavement Surface Properties Consortium: A Research Program</b></div>			
<b>Name of Project Manager(s):</b> Kevin Kenneth McGhee		<b>Phone Number:</b> (434) 293-1956	
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<b>Lead Agency Project ID:</b> 82650		<b>Other Project ID (i.e., contract #):</b>	
<b>Project Start Date:</b> 5/19/2016			
<b>Original Project End Date:</b> 2/28/2022		<b>Current Project End Date:</b> 10/31/2022	
		<b>Number of Extensions:</b> --	

Project schedule status:

☒ On schedule
 ☐ On revised schedule
 ☐ Ahead of schedule
 ☐ Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Percentage of Work Completed to Date
\$1,402,079*	\$1,057,392	75%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$52,076 (4%)	\$ 52,076	75%

\* Committed; the actual budget contracted with VTTI is \$1,283,774

**Project Description:**

This program of research focuses on optimizing pavement surface texture characteristics. Phase I of the program demonstrated that a collaborative research program can provide an accessible and efficient way for highway agencies and other organizations to conduct research on pavement surface properties. This second phase focuses on addressing some of the emerging challenges in the evaluation of pavement surface properties and the changes needed to best support the next generation of pavement and asset management systems, including support for MAP21-related initiatives. The program includes the following main broad activities: (1) equipment comparisons; (2) technology transfer; and (3) research on emerging topics.

**Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**

- The FHWA SCRIM was used by the Continuous Pavement Friction Measurement (CPFM) project to make three demonstrations of the CFM equipment in New Jersey, Maryland, and Pennsylvania where around 150 miles were surveyed in each state. These results will be presented to the DOTs after merging the data with crashes and pavement surface mix types.
- The FHWA SCRIM collected more data in October in the Chicago District in Illinois focusing on urban highways and ramps with very heavy traffic. These measurements will be added to the analysis currently being done for Illinois.
- The TAC members and invited guest hold one virtual meeting on October 28, 2021. The following were some of the topics discussed:
  - Formed a task force to discuss the organization of the next rodeo in 2022. That group agreed to meet later in the year to discuss this topic.
  - Scott Mathison, chairman of the Road Profilers User Group, provided an update on the details of the next RPUG meeting.
- The Rodeo 2022 task force met on November 30 to start planning the next Rodeo.
- Edgar de León Izeppi participated in the E-RPUG meeting held in Vienna, Austria on November 10-12, 2021. He made the presentation “Virginia Pavement Friction Management Program Demonstration” and provided updates on the various efforts of the consortium and other CSRI initiatives.
- Team members met with Arkansas DOT and they expressed interest in joining the pooled fund and organizing a demonstration project like the ones that have been made in North Dakota, Kansas, and Illinois.

**Anticipated work next quarter:**

- CSRI staff will continue communications with ARDOT to expedite their incorporation to the pooled fund so that CFME measurements can be scheduled during the summer of 2022.
- Other virtual TAC meetings will be scheduled in February and possibly another one in March.
- As usual, a presentation on the advances made in 2021 by our highway safety work with the consortium will be made in the TRB AKP50 Committee Meeting in the Safety and Environmental Group V report.

**Significant Results:**

**Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might the completion of the project within the time, scope and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).**

**Potential Implementation:**

- VDOT is moving forward with phase III of the CFME implementation project based on the recently published report “Pavement Friction Management Program Demonstration”, VTRC report 22-r14.

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