TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

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.

Total Projec	t Budget	Total Cos	st to Date for Project	Percentage of Work Completed to Date	
Overall Project Statistics:					
☑ On schedule ☐ On revised schedule ☐		Ahead of schedule	☐ Behind schedule		
Project schedule status:					
Original Project End D 09/30/202		Current Project 09/3	End Date: 30/2028	Number of Extensions: 	
		467730 (VT)		09/01/2023	
Lead Agency Project ID:		Other Project ID (i.e., contract #):		Project Start Date:	
Name of Project Manager(s): Phone Hari Nair		Phone Number: (434) 493-3147		E-Mail Harikrishnan.Nair@VDOT.Virginia.gov	
Project Title: Pavement Structural Evaluation with Traffic Speed Deflection Devices (TSDDs)					
			☐ Quarter 4 (October 1 – December 31)		
Health Monitoring and	Management		☑ Quarter 3 (July 1 – September 30)		
TPF-5(513) Emerging Data Streams for Pavement (Ass			☐ Quarter 2 (April 1 – June 30)		
(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)			☐ Quarter 1 (January 1 – March 31)		
Transportation Pooled Fund Program Project #		Transportation Pooled Fund Program - Report Period:			

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date	
\$15,000 (3%)	\$15,000	8%	

\$45,000

8%

\$600,000*

^{*}Committed; the actual contracted budget is \$120,000 (VTTI)

Project Description:

The main objective of the pooled-fund program of research is to identify, test and evaluate emerging big data stream that may enhance the process we use to evaluate the performance and manage our pavement assets. The technologies considered will include at a minimum, vehicle response data collected by connected and automated vehicles, smart infrastructure sensors (e.g., internet of things), mobile devices and e-construction and BIM technologies (e.g., digital twins)..

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

- The team continued investigating the use of connected vehicles (CV) data for pavement condition evaluation.
- The focus on this quarter was to determine whether ride quality data obtained from connected vehicles can be a valuable addition to the traditional data collection methods employed by road agencies.

Anticipated	work	next o	quarter:
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•	Continue to work on the technology assessment.

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:			