TRANSPORTATION POOLED FUND PROGRAM
QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Virginia DOT

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.

Transportation Pooled Fund Program Project # *(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)* TPF-5(389)		**Transportation Pooled Fund Program - Report Period:** ☐ Quarter 1 (January 1 – March 31) ☐ Quarter 2 (April 1 – June 30) ☑ Quarter 3 (July 1 – September 30) ☐ Quarter 4 (October 1 – December 31)
Project Title: Connected Vehicle Pooled Fund Study		
Name of Project Manager(s): Michael Fontaine	**Phone Number:** 434-293-1980	**E-Mail** Michael.Fontaine@vdot.virginia.gov
Lead Agency Project ID: 97199/90712	**Other Project ID (i.e., contract #):** 133471-GS10961	**Project Start Date:** March 2021
Original Project End Date: September 2029	**Current Project End Date:** September 2029	**Number of Extensions:** 0

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
$1,249,260.00	$26,826	2%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
N/A	$26,826	N/A

Project Description:

The pooled fund study entitled "Program to Support the Development and Deployment of Connected Vehicle Applications" was created by a group of state and local transportation agencies and FHWA in order to provide a means to conduct the work necessary for infrastructure providers to play a leading role in advancing the connected vehicle environment.

Objective:

Through a set of pooled fund studies, the Virginia Department of Transportation (VDOT) is working with federal, state and local departments of transportation, to establish a multi-phase program to facilitate the field demonstration, and deployment of connected vehicle infrastructure applications. In Phase I, the participants are focused on modeling, development, engineering and planning activities that will aid transportation agencies in justifying and promoting the large scale deployment of a connected vehicle environment. Phases 2 through 5 of the program will continue research and development to prepare agencies to deploy connected vehicle environments.

Scope of Work:

The pooled fund study will focus on the following:

• Development and evaluation of connected vehicle large-scale system level operations applications
• Independently research and address issues that will affect the deployment of connected vehicle systems by state and local transportation agencies
• Support AASHTO's Strategic and Deployment Plans
• Support USDOT's Connected Vehicles Programs and initiatives

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

1. Pooled Fund Study Overall
   a. Monthly calls were held on July 30, August 27, and September 24, 2021. The in-person meeting is scheduled for December 13-15, 2021.
   b. The Pooled Fund Study Members continued current projects and submitted an RFLI for Connected Intersections Message Monitoring System Requirements & Prototype Development.
   c. Commitments and contributions are being received for the current/new PFS (TPF-5(389)) for FY2021 and beyond.

2. Creation of MAP Guidance Document
   a. Members approved Phase 2 of the MAP Guidance Project, which includes two key aspects:
      • Interactions with SAE to represent the PFS members needs in the new Mapping Task Force actions to develop a new MAP standard
      • Updates to the MAP Guidance Document to incorporate changes as they are identified based on industry actions. Estimated content changes occurring September 2021 and June 2022

3. Connected Intersections Program
   a. WSP completed work for Phase A on CV PFS TPF-5(206), and currently no activities have been invoiced for Phase B yet. Work plans and activities will be reported on the next quarterly report for CV PFS Phase 5 TPF-5(389).

Anticipated work next quarter:

1. Pooled Fund Study Overall
   a. Monthly calls will be held in each month.
   b. Future project topics will be discussed, approved and initiated by the members.
   c. Planning will continue for an in-person meeting scheduled on December 13-15, 2021.

2. Creation of MAP Guidance Document
   a. Monthly project calls will be held in each month.
   b. A updated Guidance document will be shared for public use.
   c. Athey Creek will continue working within the expanded scope for Phase 2.

3. Connected Intersections Program
   a. Monthly project calls will be held in each month.
   b. Testing at a CV PFS selected site will be completed and analyzed in December.
   c. A plan for SCMS Engagement and coordination with ITE will continue.

Significant Results:

None in this quarter.

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

None

Potential Implementation:

None in this quarter.