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: 114742	**Other Project ID (i.e., contract #):** 133471-GS10961	**Project Start Date:** 2/1/2019
Original Project End Date: 6/30/2025	**Current Project End Date:** 6/30/25	**Number of Extensions:** 2

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	$856,175.09	69%

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	$57,344.15	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. A monthly call was held on January 27, February 24, and March 31, 2023.
   b. Commitments and contributions are being received for the current/new PFS (TPF-5(389)) for FY2023 and beyond.
   c. Planning and execution continued for an in-person meeting in Hartford, Connecticut in May 2023.

2. MAP Guidance Document - Phase 2
   a. A monthly call was held on February 3, 2022.
   b. Revisions and updates to the MAP Guidance Document have been posted to the CV PFS website.

3. Connected Intersections Program
   a. Monthly calls were paused until an extended scope could be determined.
   b. This project concluded officially in December 2022, but members desired to have continued work on the project.

4. CIMMS (Connected Intersections Message Monitoring System Requirements and Prototype Development)
   a. Monthly calls were held on January 20, February 17, and March 17, 2023.
   b. This project received an extension through December 2023.

5. Model CV Data Architecture
   a. Monthly calls were held on January 26 and February 24, 2023.
   b. The project scope is being implemented under the guidance of Dean Deeter, Athey Creek.

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 for an in-person meeting scheduled on May 2-4, 2023 in Hartford, Connecticut.

2. Creation of MAP Guidance Document
   a. Monthly project calls will be held in each month.
   b. Athey Creek will continue working within the expanded scope for Phase 3 to deliver revisions to guidance materials.

3. Connected Intersections Program
   a. Monthly project calls will be held in each month.
   b. Members will determine extended project scope in coordination with WSP.

4. CIMMS (Connected Intersections Message Monitoring System Requirements and Prototype Development)
   a. Monthly project calls will be held in each month.
   b. WSP will continue work on Phase 2, Prototype Development.

5. Model Connected Vehicle (CV) Data Architecture
   a. This project will conclude.

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).

Potential Implementation:

None in this quarter.