

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>(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i> <p style="text-align: center;">TPF-5(389)</p>	Transportation Pooled Fund Program - Report Period: <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input type="checkbox"/> Quarter 2 (April 1 – June 30) <input checked="" type="checkbox"/> Quarter 3 (July 1 – September 30) <input type="checkbox"/> Quarter 4 (October 1 – December 31)	
Project Title: <p style="text-align: center;">Connected Vehicle Pooled Fund Study</p>		
Name of Project Manager(s): <p style="text-align: center;">Michael Fontaine</p>	Phone Number: <p style="text-align: center;">434-293-1980</p>	E-Mail <p style="text-align: center;">Michael.Fontaine@vdot.virginia.gov</p>
Lead Agency Project ID: <p style="text-align: center;">114742</p>	Other Project ID (i.e., contract #): <p style="text-align: center;">133471-GS10961</p>	Project Start Date: <p style="text-align: center;">2/1/2019</p>
Original Project End Date: <p style="text-align: center;">6/30/2025</p>	Current Project End Date: <p style="text-align: center;">6/30/25</p>	Number of Extensions: <p style="text-align: center;">2</p>

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
\$3,249,260.00	\$1,271,527.83	39%

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	\$350,383.49	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. The title of the program has been updated to Connected Vehicle Pooled Fund Study and will henceforth be referred to as Connected Vehicle Pooled Fund Study (CVPFS).

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 6 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 national and international 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 28, August 25, and September 29, 2023
 - b. Commitments and contributions are being received for the current/new PFS (TPF-5(389)) for FY2024 and beyond.
 - c. Planning and execution began for an in-person meeting in Nashville, Tennessee in December 2023.
2. MAP Guidance Document - Phase 3
 - a. Monthly calls were held on July 21 and August 18, 2023.
 - b. Revisions and updates to the MAP Guidance Document have been posted to the CV PFS website. This project received member approval for an extension to continue work from through December 2023.
3. Connected Intersections Program
 - a. Monthly calls were held on August 15 and September 19, 2023.
 - b. Members approved an extended scope to carry work through to December 2023.
4. CIMMS (Connected Intersections Message Monitoring System Requirements and Prototype Development)
 - a. Monthly calls were held on July 21, August 18, and September 15, 2023.
 - b. The final Test Plan was distributed for three sites: Utah, Georgia, and Ohio.

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 in December 2023 in Nashville, Tennessee.
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 continue working on the 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.

Members will scope out new project ideas, and we will vote on subcontractors for those projects.

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 this quarter.

Potential Implementation:

None in this quarter.