

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 checked="" type="checkbox"/> Quarter 2 (April 1 – June 30) <input 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	\$1,422,891.84	44%

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	\$30,854.99	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. The annual conference was held on May 2-4, 2024. Monthly calls were held on May 31, and June 28. Materials from the conference, including project updates are posted on our website: <https://engineering.virginia.edu/labs-groups/cvpfs>.

2. MAP Guidance Document - Phase 3

a. A project status update was held May 2-4, 2024, 2023 during the annual conference.

3. Connected Intersections Program

a. A project status update was held May 2-4, 2024, 2023 during the annual conference.

b. Members approved an extension to carry work through to December 2025, with approval of a Phase 6 no-cost extension.

4. CIMMS (Connected Intersections Message Monitoring System Requirements and Prototype Development)

a. A project status update was held May 2-4, 2024, 2023 during the annual conference.

b. Members approved an extension to carry work through to December 2025, with approval of a Phase 6 no-cost extension.

5. Connected Work Zones

a. A project status update was held May 2-4, 2024, 2023 during the annual conference.

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 2024 in San Diego, CA.
2. Creation of MAP Guidance Document
 - a. Monthly project calls will be held as needed to keep current.
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.
4. CWZ (Connected Work Zones)
 - a. Monthly project calls will be held in each month.

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).

Rob Tieman has joined the CVPFS administrative team. Personnel and travel costs will necessitate a budget modification.

Potential Implementation:

None in this quarter.