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(206)		**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: Program to Support the Development and Deployment of Connected Vehicle Applications		
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:** July 2009
Original Project End Date: June 2011	**Current Project End Date:** June 2022	**Number of Extensions:** 5

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
$8,842,223	$8,831,839	99%

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	$128,949	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 4 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 October 29, 2021. The November monthly call was canceled because the in-person meeting was scheduled for December 13-15, 2021.
   b. Commitments and contributions are being received for the current/new PFS (TPF-5(389)) for FY2022 and beyond.
2. Connected Intersections Program
   a. Monthly calls were held October 19, November 16, and December 13-14, 2021.
   b. Site test plans are currently being implemented at three test sites - Georgia, Ohio, and Utah.
   d. WSP included four sample fact sheet deliverables as guidance materials available on the CV PFS website under "Resources"
3. MAP Guidance Document - Phase 2
   a. Athey Creek began work within the expanded scope for Phase 2 - these activities are documented on the quarterly report for CV PFS Phase 5 TPF-5(389). This will be the last quarterly report with this project listed. All other activities will be documented on CV PFS Phase 5 TPF-5(389).
   b. Monthly project calls will be held in every other month.

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 begin for an in-person meeting scheduled on March 29-31, 2022 in Houston, Texas.

2. MAP Guidance Document - Phase 2
   a. Athey Creek will continue working within the expanded scope for Phase 2.
   b. Monthly project calls will be held in each month.

3. Connected Intersections Program
   a. Monthly project calls will be held in each month.
   b. Testing at a CV PFS selected site will continue, and analysis will begin by 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).

We received notice from VTRC that an additional budget will be added to Phase 4. This budget addition resulted in a No-Cost Extension to June 2022 in order to spend out the remaining funds of $81,333.

Potential Implementation:

None in this quarter.