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 2020	**Number of Extensions:** 3

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
$5,882,354	$4,834,170	82%

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	$135,706	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. Phase 2 and 3 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 face-to-face meeting was held in Northern Virginia (host: FHWA and VDOT) on December 5 – 7.
   b. A monthly call was held on November 3.
   c. Glossary of Connected and Automated Vehicle technology terms is being prepared.
   d. Candidate project ideas for CY2018 were received and discussed at the face-to-face meeting.
2. Phase III Projects
   a. DSRC Rd/Wx Phase 2
      i. Monthly calls were held on October 19 and November 16.
      ii. A final presentation was given at the face-to-face meeting.
      iii. A final report was then submitted and distributed to PFS members for final approval.
   b. Basic Infrastructure Message
      i. Monthly calls were held on October 19 and November 16.
      ii. A presentation was given at the face-to-face meeting.
      iii. No-cost-extension was granted until 12/31/2018 for Task 6 Standard Support.
3. Multi-Modal Intelligent Traffic Signal System (MMITSS) Phase 3 - Deployment Readiness Enhancements
   a. UVA OSP is working with University of Arizona to establish a subcontract.
   b. A presentation was given at the face-to-face meeting.
4. Connected Traffic Control Systems (CTCS)
   a. The Request for Letters of Intent (RFLI) was released on October 18.
   b. Letters of Intent were received by November 15 and distributed to core PFS members for evaluation.
   c. A preferred subcontractor was selected through the discussion at the face-to-face meeting.

Anticipated work next quarter:

1. Pooled Fund Study Overall
   a. Monthly calls will be held in each month.
   b. Glossary of Connected and Automated Vehicle technology terms will be finalized and published.
   c. Candidate project ideas for CY2018 will be discussed and a few ideas will be selected and scoped out.

2. Phase III Projects
   a. DSRC Rd/Wx Phase 2
      i. The project will be completed early 2018.
   b. Basic Infrastructure Message
      i. Monthly project calls will be held in each month.
      ii. Most of the projects (Tasks 1 - 5) will be completed early 2018.

3. Multi-Modal Intelligent Traffic Signal System (MMITSS) Phase 3 - Deployment Readiness Enhancements
   a. An official subcontract will be established.
   b. The work will initiate.

4. Connected Traffic Control Systems (CTCS)
   a. A subcontract will be established with the selected proposer.
   b. The work will initiate.

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).

No problems have been encountered to date.

Potential Implementation:

None in this quarter.