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-(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): Catherine McGhee	**Phone Number:** 434-293-1973	**E-Mail** Cathy.McGhee@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:** August 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
$4,989,854	$4,407,375	88%

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	$100,409	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. Monthly calls were held on January 27, February, 24 and March 31.
   b. CV PFS was extended to 2020.
   c. The current CV PFS Charter (September 2014) is being revised accordingly.
   d. The next face-to-face meeting planning started.
      i. Date: Wednesday, May 31 – Thursday, June 1
      ii. Location: Salt Lake City - Utah DOT

2. Phase III Projects
   a. DSRC Rd/Wx Phase 2
      i. Monthly calls were held on January 19, February 16, and March 16.
      ii. Work being conducted as planned.
   b. Basic Infrastructure Message
      i. Monthly calls were held on January 19, February 16, and March 16.
      ii. Task2 Infrastructure Information Elements Review – in progress
      iii. Task3 Standards and Related Activities Review – in progress
      iv. Task6 Connected Vehicles Standards Support – in progress
      v. Whitepaper on 5G/LTE Potential in V2I Applications – in progress

3. Multi-Modal Intelligent Traffic Signal System (MMITSS) Phase 3 - Deployment Readiness Enhancements
   a. The final request for proposal was prepared and sent to the subcontractor (U of Arizona).
   b. A draft proposal was received from the subcontractor and distributed to the PFS "core" members for review.

Anticipated work next quarter:

1. Pooled Fund Study Overall
   a. Monthly calls will be held in each month.
   b. The current CV PFS Charter (September 2014) will be revised.
   c. A face-to-face meeting will be held
      i. Date: Wednesday, May 31 – Thursday, June 1
      ii. Location: Salt Lake City - Utah DOT

2. Phase III Projects
   a. DSRC Rd/Wx Phase 2
      i. Work will be conducted as planned.
      ii. Monthly project calls will be held in each month.
   b. Basic Infrastructure Message
      i. Work will be conducted as planned.
      ii. Monthly project calls will be held in each month.

3. Multi-Modal Intelligent Traffic Signal System (MMITSS) Phase 3 - Deployment Readiness Enhancements
   a. PFS comments will be sent back to the subcontractor.
   b. A revised proposal will be prepared and submitted by the subcontractor.
   c. CV PFS members will review and discuss for approval.

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.