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:** July 2016	**Number of Extensions:** 1

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
$4,160,000	$3,738,320	90%

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	$204,764	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 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 PFS monthly call was held on October 30.
   b. A face-to-face meeting was held in Phoenix, AZ on December 2-3.
   c. A no-cost-extension until 7/31/2016 was granted.
   d. For the next Phase III, two project topics were finally selected and the scopes are being prepared.
      i. These projects are Basic Infrastructure Message and DSRC Rd/Wx.
   e. A proposal (two pages) for CY 2016 of US Domestic Scan Program was submitted.

2. PFS Dynamic Mobility Application Phase II
   a. A monthly project update call was held on October 22.
   b. Demonstration of the California system was provided on November 17.
   c. Demonstration of the Arizona system was provided on December 2.

3. Round 4 Research Program
   a. Surveying/Mapping for CV Applications ($150,000 / 12 months)
      i. A monthly project update call was held on October 22.
      ii. A no-cost-extension for additional three months until March 2016 was granted.

Anticipated work next quarter:

1. Pooled Fund Study Overall
   a. PFS monthly calls will be held in each month.
   b. A new Phase III CV PFS contract will be established, starting in February 2016.
   c. Scopes for two Phase III projects will be finalized and the contractual process will begin.
      i. These projects are Basic Infrastructure Message and DSRC Rd/Wx.

2. PFS Dynamic Mobility Application Phase II
   a. A no-cost-extension until 3/31/2016 will be processed.
   b. Draft final reports will be delivered by 1/31/2016 and finalized.

3. Round 4 Research Program
   a. Surveying/Mapping for CV Applications
      i. This project will be completed in the next quarter.

Significant Results:

1. Demonstration of the MMITSS systems in California and Arizona was provided.
2. Draft scopes of the two selected projects for next Phase III of the CV PFS are being prepared.

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:

The Multi-Modal Intelligent Traffic Signal System was deployed in the testbeds in Arizona and California and demonstration was completed.