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 Cooperative Transportation Systems 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:** December 2014	**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
$2,490,000	$1,401,521	56%

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	$132,329	N/A

Project Description:

The pooled fund study entitled "Program to Support the Development and Deployment of Cooperative Transportation Systems 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 Cooperative Transportation Systems.

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 Transportation Systems 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 Connected Transportation Systems. 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 Transportation Systems 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 regular conference calls with the pooled fund study members were held on April 5th and May 31st.
b. A face-to-face meeting was held in Ann Arbor, Michigan on June 25th-27th. Major agenda items discussed are: 1) CTS PFS overall status update, 2) Member activity updates, 3) future project discussion, and 4) Current project updates

2. Round 3 Research Program
a. Traffic Management Centers in a Connected Vehicle Environment
i. Task1. Review Connected Vehicle Activities in Relation to TMC Operations - completed
ii. Task2. Investigating Expected Changes in TMCs - on-site interviews with two TMCs were performed
b. 5.9GHz Dedicated Short Range Communication Vehicle Based Road and Weather Condition Application
i. Task1: Requirements Document - A draft report was submitted and PFS comments were provided.
ii. Task2: Concept of Operations - A draft report was submitted and PFS comments were provided.

3. PFS Dynamic Mobility Application Project
a. Task4. Final System Design - A draft final report was delivered and being reviewed for a final approval.
b. Task5. Final Deployment and Field Test Plan – A revised scope document was delivered.

4. PFS DMA Phase II
a. A final scope/budget document is ready.
b. Period: 18 months (August 2013 – January 2015)

Anticipated work next quarter:

1. Pooled Fund Study Overall
a. Monthly PFS calls will be held on last Fridays of each month. .

2. Round 3 Research Program
a. The tasks will be performed as planned for the following two projects
i. Traffic Management Centers in a Connected Vehicle Environment
ii. 5.9GHz Dedicated Short Range Communication Vehicle Based Road and Weather Condition Application

3. PFS Dynamic Mobility Application Project
a. Task4. Final System Design – will be completed in July
b. Task5. Final Deployment and Field Test Plan – will be completed in July

4. PFS DMA Phase II
i. MOU between VDOT and USDOT will be signed.
ii. New contract between UVA and VDOT in early August
iii. New contract between UVA and U of Arizona in mid August

Significant Results:

1. Two round 3 projects have been being conducted as planned.

2. The Phase II PFS DMA project will be initiated shortly.

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 will be deployed in the selected location in the next phase of the PFS DMA program.