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 2013	**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
$2,340,000	$1,183,290	51%

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	$437,238	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. A face-to-face meeting was held in Irvine, CA on December 4th-5th. Major items discussed at this meeting included: 1) Presentation on the overall PFS status and the next steps, 2) Walkthrough review of system requirements of the Multi-Modal Intelligent Traffic Signal System, and 3) Selection of the contractors for two year 3 projects.
b. A conference call with the New Jersey DOT, who recently joined the Pooled Fund Study, was held on October 5th.

2. Year 3 Research Program
i. The request for proposals for two year 3 projects were advertised on October 1st.
ii. 14 proposals were received for the TMC project and 11 proposals for the DSRC Rd/Wx by October 26th.
iii. At the face-to-face meeting on December 4th, the PFS members selected top two candidates for each project.
iv. The management team prepared a set of final scores and forwarded this to the procurement office.
v. Finally, the contractors for two projects were selected and the procurement office initiated a contract procedure.

3. PFS Dynamic Mobility Application Project
a. Concept of Operations
i. On October 3rd, PFS members held a call to discuss how to finalize the ConOps. Comments for the revised ConOps were the prepared and sent on October 5th. Finally, a final ConOps was delivered on October 19th.
b. System Requirements
i. A draft system requirements document was delivered on October 26th.
i. A walkthrough review of system requirements was conducted at the face-to-face meeting in CA on December 4th.
ii. The contractor submitted a draft final system requirements on December 21st.
c. A revised project schedule including an extension until May 6th was received on October 15th and approved.

Anticipated work next quarter:

1. Pooled Fund Study Overall

a. A first monthly regular call will be held on January 25th 1:00PM EST. This call will be provided on the last Friday of every month.

2. Year 3 Research Program

a. The contract for two projects – see below – will be awarded in January 2013.
i. Traffic Management Centers in a Connected Vehicle Environment
ii. 5.9GHz Dedicated Short Range Communication Vehicle Based Road and Weather Condition Application
b. The work will be initiated and a kick-off call will follow shortly.

3. PFS Dynamic Mobility Application Project

a. System Requirements
i. Based on comments from the PFS members, a draft final system requirements document will be finalized.
b. System Design
i. Draft/final system design will be developed in the next quarter.

Significant Results:

1. A face-to-face meeting of the pooled fund study members was held.

2. The contractors for two Year 3 Projects were selected.

3. For the PFS Dynamic Mobility Application (DMA) project, a draft system requirements document is completed.

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.