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
$2,240,000	$746,052	33%

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	$19,785	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. Establishing the Phase 2 Pooled Fund Study
i. A draft proposal for Phase 2 of the Pooled Fund Study was completed on July 5th and finalized by the project management team. A final project proposal was then sent to VCTIR to establish a new contract.
ii. Finally, a contract entitled "Cooperative Transportation Systems Pooled Fund Study," was established on August 31st.

2. Year 3 Research Program
a. Projects for the 3rd year research program were selected as following:
i. Traffic Management Centers in a Connected Vehicle Environment
ii. 5.9GHz Dedicated Short Range Communication Vehicle Based Road and Weather Condition Application
b. Requests for proposals for these projects were prepared and finalized after incorporating the comments from the conference call on June 29th and another set of comments received by July 20th.
c. A process to advertise the request for proposals for two projects was initiated on September 4th.

3. PFS Dynamic Mobility Application Project
a. Report on Stakeholder Input
i. Comments were sent on July 9th and a final report was delivered on August 3rd.
b. Concept of Operations
i. On July 15th, a draft concept of operations was delivered.
ii. A face-to-face meeting was held on July 18th in Washington D.C. to discuss the issues raised at the stakeholder webinar on July 4th in building a concept of operations, and to gather inputs on the draft concept of operations.
iii. A revised ConOps was delivered on September 14th.

Anticipated work next quarter:

1. Pooled Fund Study Overall

a. A face-to-face meeting will be held in Irvine, CA on December 4th.

2. Year 3 Research Program

a. The request for proposals for two projects – see below – will be advertised on October 1st.
i. Traffic Management Centers in a Connected Vehicle Environment
ii. 5.9GHz Dedicated Short Range Communication Vehicle Based Road and Weather Condition Application
b. Proposals will be received by October 26th and a subsequent evaluation process will follow.
c. Finally, a contractor will be selected for each project in December.

3. PFS Dynamic Mobility Application Project

a. Concept of Operations
i. The revised ConOps will be reviewed by PFS members and based on the comments a final ConOps will be delivered.

b. System Requirements
i. A draft system requirements document will be delivered in October.
ii. A walkthrough meeting will be held in December to gather stakeholder inputs.
iii. A final system requirements document will be delivered in December.

Significant Results:

1. A contract for the Phase 2 Pooled Fund Study was established.

2. RFPs for two Year 3 Projects were prepared and the procurement process has initiated.

3. For the PFS Dynamic Mobility Application (DMA) project, a stakeholder input report was completed and a draft/revised ConOps reports were submitted.

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.