

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 8/16/2020

Lead Agency (FHWA or State DOT): FHWA

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>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i> TPF-5(319)		Transportation Pooled Fund Program - Report Period: <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input checked="" type="checkbox"/> Quarter 2 (April 1 – June 30) <input type="checkbox"/> Quarter 3 (July 1 – September 30) <input type="checkbox"/> Quarter 4 (October 1 – December 31)	
Project Title: Transportation Management Center Pooled Fund Study			
Name of Project Manager(s): Jon Obenberger	Phone Number: 202-493-3265	E-Mail jon.obenberger@dot.gov	
Lead Agency Project ID: DTFH61-06-D-0004-T-11008	Other Project ID (i.e., contract #):	Project Start Date: Feb. 1, 2000	
Original Project End Date: Sept. 30, 2010	Current Project End Date: Apr. 16, 2022	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
\$ 4,931,268	\$ 3,549,338	72

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$ 39,752	\$ 39,752	

Project Description:

The Transportation Management Center (TMC) Pooled Fund Study (PFS) serves as a forum to identify and address issues that are common among agencies that manage and operate TMCs and provides an opportunity for agencies to collectively take on those key issues and challenges. The TMC PFS also provides an opportunity to facilitate the interaction, sharing of information and successful practices with a broader audience to advance and improve upon the current state-of-the-practice related to the management, operation, and performance of TMCs.

The goal of the TMC PFS is to assemble regional, state, and local transportation management agencies and the Federal Highway Administration (FHWA) to:

- Identify human-centered and operational issues;
- Suggest approaches to addressing identified issues;
- Initiate and monitor projects intended to address identified issues;
- Provide guidance and recommendations and disseminate results;
- Provide leadership and coordinate with others with TMC interests; and
- Promote and facilitate technology transfer related to TMC issues nationally.

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):

Capability and Usage Guidelines for Color Changeable Message Signs: The preliminary guidelines for using color full-matrix changeable message signs have been completed and will be published soon. Laboratory data collection to support a human factors study that would analyze the effects of using colors, symbols and graphics on color, full matrix signs was completed. Field data collection was completed. The Human Factors Study Final Report for the Capability and Usage Guidelines for Color Changeable Message Signs was submitted and reviewed by the project committee.

Use of Performance Dashboards for Communicating the Benefits of Traffic Operations: A draft of the project report was submitted and reviewed by the project committee.

Performance Measures and Health Index of ITS Assets: A draft of the project report was submitted and reviewed by the project committee.

Information and Analysis of TMC Staff and Staffing Contracts: A letter report for the literature research was submitted and approved by the project committee.

A quarterly conference call was conducted on June 3, 2020. Members reviewed the progress of on-going projects, discussed options for rescheduling or skipping the 2020 annual meeting, discussed an alternative approach to identify and prioritize new projects to advance virtually, and discussed opportunities for enhance the sharing of information on TMC PFS projects and related issues with other groups. In addition to the usual business discussion, the contractor teams working on the “Capability and Usage of CMSs” and “TMC Dashboards” projects provided presentations on the status of the projects and final technical reports.

Anticipated work next quarter:

TMC PFS Meetings: The TMC PFS quarterly meeting was conducted on June 3, 2020. The next TMC PFS quarterly meeting is scheduled for September 3, 2020.

Capability and Usage Guidelines for Color Changeable Message Signs: The Task 3 Current Practices and Research report is complete. The report was advanced into FHWA’s publication review and approval process. The Task 4 Research Report is completed. The report was advanced into FHWA’s publication review and approval process. The final project presentation was conducted on June 3rd during the TMC PFS quarterly review meeting.

Use of Performance Dashboards for Communicating the Benefits of Traffic Operations: The final project report is completed. The final project presentation was conducted on June 3rd during the TMC PFS quarterly review meeting. The results of the project will be highlighted in the webinar hosted by the National Operations Center of Operations Excellence (NOCOe) scheduled for July 21, 2020.

Performance Measures and Health Index of ITS Assets: The final project report is completed. The report was advanced into FHWA's publication review and approval process. A webinar to highlight the results of the project is scheduled for September 10, 2020.

Information and Analysis of TMC Staff and Staffing Contracts: The project review team submitted comments on the final draft of the annotated outline the contractor submitted in support of developing the project report. The contractor is planning to submit the initial draft of this report for review in September.

Applying Predictive Analytics into the real-time management and operation of traffic management systems (TMSs): The contractor was selected for this project, the contract awarded, and work initiated. The kick-off meeting for this project is scheduled for August 14, 2020.

Traffic Management System (TMS) Asset Management Planning and Life Cycle Cost Analysis: The contractor was selected for this project, the contract awarded, and work initiated. The kick-off meeting for this project is scheduled for August 26, 2020.

Inventorizing, Documenting, Configuring, and Assessing Traffic Management Systems (TMSs). The request for proposals was prepared and submitted to the FHWA Contracting Office for soliciting proposals in July or August.

TMS Pooled Fund Study Technical Support. The request for proposals was issued in support of the contract to be issued providing technical and administrative services to the FHWA to support TMC PFS projects, administrative tasks, and related activities.

Significant Results:

Final project reports have been submitted for the *Capability and Usage Guidelines for Color Changeable Message Signs, TMC Dashboards, and Performance Measures and Health Index of ITS Assets* projects. These reports have been submitted into the FHWA publication review and approval process.

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 issues have been identified or encountered to date.

Potential Implementation:

Webinars have been scheduled to highlight the results for two TMC PFS projects. Once FHWA has approved the final reports for the completed TMC PFS projects, the reports will be posted on the TMC PFS website. Links will be provided to the NOCoE website in support of increasing the availability and awareness of these reports.