

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 9/30/2020

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 type="checkbox"/> Quarter 2 (April 1 – June 30) <input checked="" 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
\$ 5,481,268	\$ 3,677,561	67

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$ 128,223	\$ 128,223	

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.):

Usage of Color Changeable Message Signs: The report summarizing the current practice and research on the use of color changeable message signs has been completed. The laboratory and field data collection to support a human factors study analyzing the effects of using colors Changeable Message Signs was completed. The Human Factors Study Report on the limited testing conducted on the Use of Color Changeable Message Signs was completed. Both reports are being reviewed to ensure they comply with FHWA publication requirements.

Use of Performance Dashboards for Communicating the Benefits of Traffic Operations: The final report was submitted, reviewed, and accepted. This report is being reviewed to ensure it complies with FHWA publication requirements. The results of the project were highlighted during a webinar co-hosted by the TMC PFS, FHWA, and National Operations Center of Excellence on July 21, 2020.

Performance Measures and Health Index of ITS Assets: The final report was submitted, reviewed, and accepted. This report is being reviewed to ensure it complies with FHWA publication requirements. The results of the project were highlighted during a webinar co-hosted by the TMC PFS, FHWA, and National Operations Center of Excellence on September 10, 2020.

Information and Analysis of TMC Staff and Staffing Contracts: A letter report for the literature research was submitted and approved by the project review team. The annotated outline was reviewed and accepted by the project review team.

A quarterly conference call was conducted on September 3, 2020. Members reviewed the progress of on-going projects, reviewed the scope of work and deliverables to be developed for new TMC projects being initiated, and reviewed the scope and products to be developed by the FHWA Next Generation of Traffic Management Systems program. The members also discussed and agreed on an approach to develop, review and select new projects to be initiated in 2021. This process will occur over two meetings to be conducted in November and December of 2020. The list of possible projects TMC PFS members identify will be distributed prior to these meetings. Where FHWA staff will lead the development of 10 project proposals to be reviewed in advance of these virtual meetings.

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 was conducted on 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 was conducted on August 26, 2020.

Inventorying, Documenting, Configuring, and Assessing Traffic Management Systems (TMSs): Project proposals were reviewed, contractor selected, contract awarded, and work initiated on September 23, 2020. The kick-off meeting for this project is scheduled for October 23, 2020.

TMS Pooled Fund Study Technical Support. Project proposals were reviewed, contractor selected, contract awarded, and work initiated. The kick-off meeting is scheduled for October 19, 2020. The project is to obtain technical support and administrative services to the FHWA to support the TMC PFS projects, administrative tasks, and related activities.

Significant Results:

Final project reports for the *Capability and Usage Guidelines for Color Changeable Message Signs*, *TMC Dashboards*, and *Performance Measures and Health Index of ITS Assets* projects were submitted into the FHWA publication review and approval process. The results for the *TMC Dashboards*, and *Performance Measures and Health Index of ITS Assets* projects were highlighted in webinar hosted by the National Operations Center of Operations Excellence.

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:

The next quarterly meeting of the TMC PFS is scheduled for December 2, 2020. Two virtual meetings will be conducted in November and December to select new projects for the TMC PFS to initiate in 2021.

