

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 10/6/2022

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(487)		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: Traffic 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, 2027	Number of Extensions: 4	

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
\$ 5,748,774	\$ 4,053,800	81

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$ 98,789	\$ 98,789	

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.):

The following is the progress achieved on current TMC PFS projects:

Information and Analysis of TMC Staff and Staffing Contracts:

- The revised technical report was submitted in the second quarter and comments submitted to the contractor. A final technical guidelines report submittal is expected in November of 2022.

Traffic Management System (TMS) Asset Management Planning and Life Cycle Cost Analysis:

- The revised draft report was submitted July 22, 2022 and comments submitted to the contractor for revisions.

Inventorying, Documenting and Configuring TMC Assets & Resources:

- The initial draft report for TMS Inventory, Documentation, and Configuration Current Practices report was submitted August 29, 2022 and review comments submitted to the contractor. The revised report is expected in November.
- The initial outline for the TMS Inventory, Documentation, and Configuration Technical Report was submitted September 20, 2022 and comments submitted to the contractor. The revised outline is expected in October.
- The draft annotated outline for the Assessing TMSs Current Practices report was submitted August 29, 2022 and comments submitted to the contractor. The final outline is expected in October.

Applying Predictive Analytics into the real-time management and operation of traffic management systems (TMSs):

- The final annotated outline for the technical report was submitted August 12, 2022 and comments submitted to the contractor. The initial draft report is expected in November.

The following new PFS-funded task orders were awarded under the FHWA Operations Indefinite Quantities Contract (OPS V BPA) during this period:

1. Planning to Frame the Strategic Direction and Future Investments in TMS (awarded 6/27/2022, kickoff held 9/12/2022)
2. Sharing Information on TMS Emerging Topics (awarded 8/16/2022, kickoff held 9/28/2022)
3. Using Social Media Information to Improve TMS Operations (awarded 9/13/2022, kickoff 11/14)
4. Sharing and Using Different Types of Data in Traffic Management Systems (TMS) (awarded 9/21/2022, kickoff 11/8)

The PFS held a Virtual Technical Exchange amongst members on August 3, 2022 on *Identifying Staffing Needs for Managing Traffic Management Systems*. These meetings are held quarterly to provide a forum for members to exchange information on technical topics of interest.

Anticipated work next quarter:

TMC PFS Meetings: The next TMC PFS quarterly meeting is scheduled for December 7, 2022, where key discussion topics will include member updates, prioritizing topics for further concept development and consideration as potential new projects in 2023, and finalizing the agenda and logistics for the 2023 Annual Meeting. Additionally, the next TMC PFS Virtual Technical exchange on *TMS Software Functionality and Features* is scheduled for November 2, 2022.

Capability and Usage Guidelines for Color Changeable Message Signs: The Task 3 Current Practices and Research report is complete. The Task 4 Research Report is completed. The report is being reviewed by the FHWA Publication Team and is expected to be published in the fourth quarter of CY 2022.

Performance Measures and Health Index of ITS Assets: The final project report is completed. The report is being reviewed by the FHWA Publication Team and is expected to be published in the fourth quarter of CY 2022.

Information and Analysis of TMC Staff and Staffing Contracts:

- Final technical report is expected in the fourth quarter.

Traffic Management System (TMS) Asset Management Planning and Life Cycle Cost Analysis:

- Final technical report is expected in the fourth quarter.

Inventorying, Documenting, Configuring, and Assessing Traffic Management Systems (TMSs):

- The revised draft report for TMS Inventory, Documentation, and Configuration Current Practices report expected in the fourth quarter.
- The final annotated outline for the TMS Inventory, Documentation, and Configuration Technical Report expected in the fourth quarter.
- The final annotated outline and initial draft of Assessing TMSs Current Practices report is expected in fourth quarter.

Applying Predictive Analytics into the real-time management and operation of traffic management systems (TMSs):

- Initial draft of the technical report expected in the fourth quarter.

The PFS will conduct the kickoff meetings during the fourth quarter for the following new projects being initiated:

1. Using Social Media Information to Improve TMS Operations
2. Sharing and Using Different Types of Data in Traffic Management Systems (TMS)

The PFS will be advancing two projects in 2023 and will prepare the scopes of work and procurement documents for these projects. These projects include:

1. Developing or Updating Staffing Plans for TMS and Methods to Identify Staffing Needs
2. Enabling the Sharing and Use of Open-Source or Agency Owned Software and Application Programming Interfaces (APIs)

The PFS will hold a Virtual Technical Exchange on the new TMS software developed for the Utah DOT on Nov. 2.

Significant Results:

The PFS established a new SharePoint-based Collaboration Portal that all members will have access to in the fourth quarter. The Portal allows the sharing of resources (including procurement documents) between members, enables collaboration on documents and technical reviews, and provides an easy medium for polling/surveying members.

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 7, 2022. The scope of work and procurement documents will be developed in the fourth quarter to initiate the new projects selected to be advanced in 2023.