

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 9/30/2021

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 (New TMC PFS # for 2022-2027 to be obtained in fall)	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
\$ 5,748,774	\$ 3,869,435	73

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$ 104,408	\$ 104,408	

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.):

Use of Performance Dashboards for Communicating the Benefits of Traffic Operations: The final report was approved and released in September of 2021 and is available at: <https://ops.fhwa.dot.gov/publications/fhwahop20032/fhwa20032.pdf>

Information and Analysis of TMC Staff and Staffing Contracts:

- Review comments on the draft technical report were submitted in 3rd quarter.

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

- Review comments on the revised annotated outline of the report were submitted in the 3rd quarter.

Inventorying, Documenting and Configuring TMC Assets & Resources:

- Review comments on the final annotated outline of the technical report were submitted in the 3rd quarter.

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

- Final letter report was submitted on September 30, 2021.

A quarterly conference call was conducted on September 1, 2021. During the meeting members reviewed: current progress on projects, discussed emerging TMS topic ideas for the upcoming project on *Sharing Information and Practices on TMS Emerging Topics*, reviewed and discussed proposed topics to consider for new project in 2022, and discussed the possibility of organizing a virtual technical exchange on key issues or topics among TMC PFS members.

The PFS will be complete the procurement documents, solicit proposals, select a contractor, and initiate work during the first quarter of 2022 for the five new projects selected in 2021:

- 1) Sharing Information and Practices on TMS Emerging Topics
- 2) Integrating and Using New Data Sources in TMSs
- 3) Options for TMSs to Receive and Share Data from Multiple Sources
- 4) Planning and Plans to Frame TMS Strategic Direction and Future Investment
- 5) Using Data from Social Media to Improve TMS Management and Operation

Anticipated work next quarter:

TMC PFS Meetings: The next TMC PFS quarterly meeting is scheduled for December 1, 2021, where key discussion topics will include: 1) reviewing and selecting new emerging topics (topics #3 and #4) for the 2021 project on *Sharing Information and Practices on TMS Emerging Topics* project, 2) prioritizing topics for further concept development and consideration as potential new projects in 2022, and 3) finalizing the agenda and logistics for the 2022 Annual Meeting.

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 prior to being published, which is expected to be published in the first quarter of CY 2021.

Performance Measures and Health Index of ITS Assets: The final project report is completed. The report is being reviewed by the FHWA Publication Team prior to being published, which is expected in the fall of 2021.

Information and Analysis of TMC Staff and Staffing Contracts:

- Revised technical report expected is expected in the fall of 2021 (draft was submitted in March).

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

- Initial draft of the technical report is expected in the fall of 2021.

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

- Initial draft of the technical report is expected in the first quarter of CY 2022.

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

- Initial draft of the technical report is expected in the first quarter of CY 2022.

For new projects selected to be implemented in 2021, work will be initiated in December 2021 for the following projects:

- 1) Sharing Information and Practices on TMS Emerging Topics
- 2) Integrating and Using New Data Sources in TMSs
- 3) Options for TMSs to Receive and Share Data from Multiple Sources
- 4) Planning and Plans to Frame TMS Strategic Direction and Future Investment
- 5) Using Data from Social Media to Improve TMS Management and Operation

Significant Results:

The Traffic Management Center Performance Dashboards Report was approved and released on September.

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. FHWA will initiate the request to obtain approval to continue the TMC PFS for 2022-2027 and obtain a new PFS number.

Potential Implementation:

The next quarterly meeting of the TMC PFS is scheduled for December 1, 2021. The scope of work and procurement documents will be developed in the fourth quarter to initiate the 5 new projects selected to be advanced for 2021.