

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 1/7/2022

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(319); 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 type="checkbox"/> Quarter 3 (July 1 – September 30) <input checked="" 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: April 16, 2022 (TPF-5(319)) Apr. 16, 2027 (TPF-5(487))	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	\$ 3,886,887	75

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$ 17,452	\$ 17,452	

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 TMC PFS Phase II (TPF-5(487)) was approved for April 17, 2022 to April 16, 2027 with FHWA serving as the lead agency. The request for agencies to submit their funding for 2022 to the TMC PFS (either TMC PFS TPF-5(319) before April 16, 2022 or TPF-5(487) on April 17, 2022 or after). Agencies were also requested to submit their commitments for the TMC PFS (TPF-5(487) for 2022 through 2027. The following is the progress achieved on current TMC PFS projects:

Information and Analysis of TMC Staff and Staffing Contracts:

- Review comments on the draft report were submitted in 3rd quarter. Final report under development.

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

- The revised annotated outline of the report was submitted on November 9, 2021 and review comments submitted in December.

Inventorying, Documenting and Configuring TMC Assets & Resources:

- The draft letter report for Capabilities and Performance State of Practice was submitted on November 19, 2021.

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

- Final letter report was submitted on September 30, 2021. Comments were submitted to the contractor to support incorporating feedback into the initial outline of the report which is under development.

A quarterly conference call was conducted on December 1, 2021. During the meeting, members reviewed current progress on projects, selected additional emerging TMS topic ideas for the upcoming project on *Sharing Information and Practices on TMS Emerging Topics*, and reviewed and prioritized (via member voting) new 2022 projects to advance for further consideration at the May 2022 Annual Meeting.

The PFS held the first ever Virtual Technical Exchange amongst members on November 3, 2021 on *Displaying Messages on Changeable Message Signs (CMS) During Adverse Weather*. These meetings will be held on a quarterly basis 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 March 2, 2022, where key discussion topics will include member updates, where members will present on key 2021 accomplishments or challenges their agency has addressed with TMC related issues, and finalizing the agenda and logistics for the May Annual in-person meeting. Additionally, PFS member will participate in the next TMC PFS Virtual Technical exchange on *Displaying Travel Times on Changeable Message Signs* scheduled for February 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 first 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 first quarter of CY 2022.

Information and Analysis of TMC Staff and Staffing Contracts:

- Revised technical report expected is expected in early 2022 (draft was submitted in March 2021).

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

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

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

- Final letter report expected in early 2022; 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.

The PFS will 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

Significant Results:

Established a new forum for members to discuss relevant issues in the Virtual Technical Exchange series.

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 March 2, 2022. The scope of work and procurement documents will be developed in the first quarter of 2022 to initiate the 5 new 2021 projects selected to be advanced.