

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 7/21/2021

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 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 (New TMC PFS # for 2022-2027 to be requested 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	\$ 3,765,435	70

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$ 18,835	\$ 18,835	

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.):

Information and Analysis of TMC Staff and Staffing Contracts:

- Draft Technical Guidelines Report submitted March 29, 2021 with the revised draft anticipated in August.

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

- Draft Annotated Outline of Technical Report submitted April 23, 2021.

Inventorying, Documenting and Configuring TMC Assets & Resources:

- Final Letter Report submitted April 26, 2021.
- Draft Annotated Outline of Technical Report submitted April 23, 2021.

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

- Draft Synthesis and Literature Review Report submitted February 8, 2021 with the final report anticipated in July.
- Draft Annotated Outline of Technical Report submitted February 8, 2021 with the revised draft anticipated in July.

A quarterly conference call was conducted on June 2, 2021. During the meeting, members reviewed project status and progress, reviewed NOCoE's updated TMS Portal, and discussed the possibility of holding an in-person meeting again in 2022. In addition, members moved forward with the 2021 projects:

- *Sharing Information and Practices on TMS Emerging Topics*: members selected the initial topics to pursue
- *Developing Multi-year Plans to Guide a TMSs Strategic Direction and Future Investments*: members discussed options to frame concepts to incorporate into the scope of work and products to be developed by the project.

The PFS will be advancing five projects in 2021 and is currently preparing scopes of work and procurement documents for these projects. These five projects include:

- 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) Developing Multi-year Plans to Guide TMSs' Strategic Direction and Future Investments, and
- 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 September 1, 2021, where key discussion topics will include reviewing and selecting new emerging topics (1 or 2) for the 2021 project on *Sharing Information and Practices on TMS Emerging Topics* and proposing and reviewing topics to consider for new projects in 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 prior to being published.

Use of Performance Dashboards for Communicating the Benefits of Traffic Operations: The final project report is completed. The report is being reviewed by the FHWA Publication Team prior to being published.

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.

Information and Analysis of TMC Staff and Staffing Contracts:

- Revised Technical Guidelines Report expected in August (draft was submitted in March).

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

- Initial Draft Technical Report expected in the fall.

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

- Initial Draft State of the Practice Report expected in the fall.

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

- Final Letter Report in early 2022.
- Draft Technical Report expected in the fall of 2021.

For new projects selected to be implemented in 2021, work is expected to be initiated in the fall for:

- 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) Developing Multi-year Plans to Guide TMSs' Strategic Direction and Future Investments, and
- 5) Using Data from Social Media to Improve TMS Management and Operation

Initiate the process to identify proposed projects for members to consider and select new projects to advance in in 2022.

Significant Results:

N/A

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 September 1, 2021. The scope of work and procurement documents will be developed in the third quarter to initiate the 5 new projects selected to be advanced in 2021.