

## TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 7/5/2023

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.*

<b>Transportation Pooled Fund Program Project #</b> <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i>  TPF-5(487) (Initial Phase <u>TPF-5(319)</u> )		<b>Transportation Pooled Fund Program - Report Period:</b> <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)	
<b>Project Title:</b> Traffic Management Center Pooled Fund Study ((TPF-5(487) and <u>TPF-5(319)</u> )			
<b>Name of Project Manager(s):</b> Jon Obenberger	<b>Phone Number:</b> 202-493-3265	<b>E-Mail</b> jon.obenberger@dot.gov	
<b>Lead Agency Project ID:</b> DTFH61-06-D-0004-T-11008	<b>Other Project ID (i.e., contract #):</b>	<b>Project Start Date:</b> Feb. 1, 2000	
<b>Original Project End Date:</b> Sept. 30, 2010	<b>Current Project End Date:</b> Apr. 16, 2027	<b>Number of Extensions:</b> 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
\$ 6,850,569 (Total for 2 Phases)	\$ 4,730,443 (Total for 2 Phases)	63 (Total for 2 Phases)

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$ 290,976	\$ 290,976	

**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:

*Inventorying, Documenting, Configuring, and Assessing TMSs*

1. Final report TMS Inventory, Documentation, and Configuration – State of Practice submitted and accepted 4/21/23.
2. Final report Assessing & Reporting TMS Capabilities & Performance – State of Practice submitted & accepted 4/20/23.

*Sharing Information on TMS Emerging Topics*

3. Topic 1 (Locating Incidents Outside Surveillance)
  - a. Factsheet: Final submitted 6/21/23.
  - b. Presentation: Final submitted 6/21/23.
4. Topic 2 (Establishing Geofence Locations)
  - a. Factsheet: Final submitted 6/12/23.
5. Topic 3 (Realtime Information Sharing for Statewide Incident Management)
  - a. Factsheet: Final submitted 5/25/23.
  - b. Presentation: Final submitted 5/25/23.

*Sharing and Using Different Types of Data in Traffic Management Systems (TMS)*

6. Draft white paper on Using Data submitted 5/23/23.
7. Draft white paper on Sharing Data submitted 4/26/23.

*Planning to Frame the Strategic Direction and Future Investments in TMS*

8. Final white paper submitted and accepted 5/26/23.
9. Annotated outline for report submitted 6/21/23.

*Using Social Media Information to Improve TMS Operations*

10. Final white paper submitted and accepted 5/26/23.
11. Initial outline for technical report submitted 6/12/23.

A Virtual Technical Exchange exploring *Data-Driven CMS Messages - Queue and Weather* amongst TMC PFS members was held on 4/5/23. These meetings are held quarterly to provide a forum for members to exchange information on key technical topics of interest.

21 TMC PFS members participated in the 2023 Annual Meeting in-person May 10-12, 2023 at the Region 3 building of the Tennessee Department of Transportation in Nashville. Key agenda items during the meeting included a TNDOT tour of their TMC and presentation on I-24 ICM and Mobility Technology Interstate Observation Network projects, member roundtables, review of progress on current projects with contractors, selection of new projects to be initiated in 2023 using PFS funds, and identified possible topics for future Virtual Technical Exchanges.

During the quarter, Request for Proposals (RFPs) were released under the FHWA Operations Indefinite Quantities Contract (OPS V BPA) for the following task order(s) being funded by the PFS:

1. *Sharing and Using Open-Source or Agency Owned Software and Application Programming Interfaces (APIs)* (RFP released 6/15/23 and proposals due 07/18/23)
2. *Developing or Updating Staffing Plans for TMSs and Methods to Identify Staffing Needs* (RFP released 6/15/23 and proposals due 07/22/23)
3. *Inventorizing, Documenting, Configuring, and Assessing TMSs* (follow-on work to complete final report) (RFP released 6/4/23 and proposals due 07/7/23)

**Anticipated work next quarter:**

*TMC PFS Meetings:* The next TMC PFS quarterly meeting is scheduled for September 6, 2023, where key discussion topics will include reviewing progress on current projects, brainstorming possible topics to consider in the process of selecting new projects for 2024, and selecting dates and location for the next in-person meeting. Additionally, the next TMC PFS Virtual Technical exchange on *Filtering CAD Data and What to Share* is scheduled for August 2, 2023.

*Sharing Information on TMS Emerging Topics*

- Accept the fact sheets, power point presentations, and proposal for possible webinars for topics 1, 2, and 3.
- White paper, draft factsheet, and draft technical presentations expected to be submitted for topics 4, 5 and 6 in Q3.
- Initiate work in support of developing the white papers for topics 7 and 8.

*Sharing and Using Different Types of Data in Traffic Management Systems (TMS)*

- Final white papers on Sharing Data and Using Data expected in Q3.
- Initial outline for the technical reports for Sharing Data and Using Data expected in Q3.

*Planning to Frame the Strategic Direction and Future Investments in TMS*

- Final annotated outline for the technical report expected in Q3.

*Using Social Media Information to Improve TMS Operations*

- Draft annotated outline for the technical report expected in Q3.

During the quarter, Proposals will be received, reviewed and ranked, task orders agreed to, start notices issues, draft work plans submitted, and kick-off meetings scheduled released under the FHWA Operations Indefinite Quantities Contract (OPS V BPA) for the following task order(s) being funded by the PFS:

- *Sharing and Using Open-Source or Agency Owned Software and Application Programming Interfaces (APIs)*
- *Developing or Updating Staffing Plans for TMSs and Methods to Identify Staffing Needs*
- *Inventorizing, Documenting, Configuring, and Assessing TMSs* (follow-on work)

**Significant Results:**

- Arizona DOT joined as a new member in June 2023, bringing total membership up to 24 agencies.
- Final reports and presentations for several recently completed PFS-projects will be posted on FHWA's website in the coming months.

**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 scope of work and procurement documents will be developed later in 2023 to initiate the new projects selected to be advanced at the 2023 Annual Meeting.