

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 10/2/2023

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.

Transportation Pooled Fund Program Project # <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i> TPF-5(487) (Initial Phase <u>TPF-5(319)</u>)		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 ((TPF-5(487) and <u>TPF-5(319)</u>)			
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
\$ 6,850,569 (Total for 2 Phases)	\$ 4,903,165 (Total for 2 Phases)	64 (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
\$ 172,722	\$ 172,722	

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, and Configuring Traffic Management Systems (TMSs)

- Comments on initial draft report submitted 8/2023.

Sharing Information on TMS Emerging Topics

- Topic 1 (Locating Incidents Outside of Surveillance Areas) Fact sheet and presentation accepted 8/23.
- Topic 2 (Establishing Geofence Locations) Fact sheet completed. Comments submitted on final presentation 8/23.
- Topic 3 (TMSs Sharing Incident Information Within Agency) Fact sheet completed. Comments submitted on final presentation 8/23.
- Topic 4 (Using Variable Speed Limits (VSL) During Adverse Weather) Comments submitted draft white paper 8/23.

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

- Initial outline received for technical report on Using Data and comments submitted 9/13/23.
- Initial outline received for technical report on Sharing Data and comments submitted 9/13/23.

Planning to Frame the Strategic Direction and Future Investments in TMS

- Final annotated outline received for technical report and comments provided 9/5/23.

Using Social Media Information to Improve TMS Operations

- Worked to revise Initial Outline for technical report based on feedback submitted 8/22/23.

A Virtual Technical Exchange exploring *Filtering CAD Data and What to Share* was held on 8/2/23. These quarterly meetings provide a forum for TMC PFS members to exchange information on key technical topics of interest.

During the quarter, proposals were received, reviewed, ranked, contractors selected, and task orders awarded under the FHWA Operations Indefinite Quantities Contract (OPS V BPA) for the following projects being funded by the PFS:

- *Sharing and Using Software and Application Programming Interfaces (APIs) for TMS*. Awarded on 9/22/23. Period of performance 10/10/23 – 10/9/26.
- *Methods to Identify Staffing Needs and Developing or Updating Staffing Plans for TMSs*. Awarded on 8/4/23. Period of performance 9/11/23 – 9/10/25.
- *Inventorying, Documenting, Configuring, and Assessing TMSs* (complete technical report). Awarded on 7/26/23. Period of performance 8/21/23 – 11/21/24.

Anticipated work next quarter:*TMC PFS Meetings:*

Quarterly Meetings. The next TMC PFS quarterly meeting is scheduled for December 6, 2023, where key discussion topics will include member updates, prioritizing topics for further concept development and consideration as potential new projects in 2024 and finalizing the agenda and logistics for the 2024 Annual Meeting.

TMC PFS Virtual Technical Exchange. The next virtual technical exchange on Reporting on TMC Staffing Performance is scheduled for November 1, 2023.

TMC PFS In-Person Meeting. FHWA approval of the next in-person meeting (May 8-10, 2024 in Lee's Summit, Missouri), agenda, and invitations will be sent to TMC PFS members in November 2023.

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

- Draft report expected in Q4.

Sharing Information on TMS Emerging Topics

- Topic 1 (Locating Incidents Outside of Surveillance Areas) Webinar proposal expected in Q4.
- Topic 2 (Establishing Geofence Locations) Final presentation and webinar proposal expected in Q4.
- Topic 3 (TMSs Sharing Incident Information w/in Agency) Final presentation and webinar proposal expected in Q4.
- Topic 4 (Using Variable Speed Limits (VSL) During Adverse Weather) Final white paper expected in Q4.
- Topic 5 (TMCs Actively Managing and Operating Part-time Shoulder Use) Draft white paper expected in Q4.
- Topic 6 (Methods and Tools to Estimate Staffing Needs) Draft white paper expected in Q4.
- Topic 7 (TMCs Actively Managing Use of Queue Warning Messages on Freeways) Draft white paper expected in Q4.
- Topic 8 (Performance of TMC Operators) Draft white paper expected in Q4.
- Task order modified to add funding in support of contractor pursuing Topics 9, 10, 11, and 12 in Q4.

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

- Final white papers on Sharing Data and Using Data expected in Q4.
- Draft annotated outlines for the technical reports for Sharing Data and Using Data expected in Q4.

Planning to Frame the Strategic Direction and Future Investments in TMS

- Initial draft of the technical report expected in Q4.

Using Social Media Information to Improve TMS Operations

- Final annotated outline for the technical report expected to be accepted in Q4.

Sharing and Using Software and Application Programming Interfaces (APIs) for TMS

- Kickoff meeting scheduled for 11/3/23. Work plan, power point presentation, and meeting notes accepted in Q4.

Methods to Identify Staffing Needs and Developing or Updating Staffing Plans for TMSs

- Kickoff meeting scheduled for 10/5/23. Work plan, power point presentation, and meeting notes accepted in Q4.

Significant Results:

The final reports were published on FHWA's website in August 2023:

- [Use of Color Changeable Message Signs Current Practices and Research](#)
- [Use of Color Changeable Message Signs Human Factors Study](#)

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 Q4 to initiate the new projects selected at the 2023 Annual Meeting to be advanced when funding is made available to the TMC PFS.