

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 1/8/2024

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 type="checkbox"/> Quarter 3 (July 1 – September 30) <input checked="" type="checkbox"/> Quarter 4 (October 1 – December 31)	
Project Title: Traffic Management Center Pooled Fund Study Phase II ((TPF-5(487) and <u>TPF-5(319)</u> – Initial or Phase I)			
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)	\$ 5,153,712 (Total for 2 Phases)	66 (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
\$ 250,546.46	\$ 250,546.46	

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)

- Draft report submitted 10/12/23.

Sharing Information on TMS Emerging Topics

- Topic 1 (Locating Incidents Outside of Surveillance Areas): Webinar proposal submitted 10/19/23; fact sheet and presentation submitted into publication process on 11/8/23.
- Topic 2 (Establishing Geofence Locations): Webinar proposal submitted 10/19/23; fact sheet and presentation submitted into publication process on 11/8/23.
- Topic 3 (TMSs Sharing Incident Information Within Agency): Webinar proposal submitted 10/19/23; fact sheet and presentation submitted into publication process on 11/8/23.
- Topic 4 (Using Variable Speed Limits (VSL) During Adverse Weather): Final white paper submitted 10/12/23 and accepted 10/30/23. Draft fact sheet and presentation submitted 12/19/23.
- Topic 5 (TMCs Actively Managing and Operating Part-time Shoulder Use): Draft white paper submitted 11/15/23.
- Topic 6 (Methods and Tools to Estimate Staffing Needs): Draft white paper submitted 11/22/23.

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

- Final white paper for Using Data submitted on 10/11/23 and initial outline of technical report submitted on 12/15/23.
- Final white paper for Sharing Data submitted on 10/11/23 and initial outline of technical report submitted on 12/15/23.

Planning to Frame the Strategic Direction and Future Investments in TMS

- Continued to work on the development of the initial draft technical report (to be submitted in January 2024).

Using Social Media Information to Improve TMS Operations

- Draft annotated outline for the technical report was submitted on 11/17/23.

During the quarter, project kickoff meetings were held for the following newly awarded projects being funded by the PFS:

- *Sharing and Using Software and Application Programming Interfaces (APIs) for TMS*: Kickoff held 11/3/23.
- *Methods to Identify Staffing Needs and Developing or Updating Staffing Plans for TMSs*: Kickoff held 10/5/23.

A quarterly conference call was conducted on 12/6/23. During the meeting, members reviewed current progress on projects, provided updates on agency' activities, selected topics for upcoming Virtual Technical Exchanges, and reviewed possible new 2024 projects and next steps.

A Virtual Technical Exchange exploring *Reporting on TMS Staffing Performance* was held on 11/1/23. These quarterly meetings provide a forum for TMC PFS members to exchange information on key technical topics of interest.

Anticipated work next quarter:*TMC PFS Meetings:*

Quarterly Meetings. The next TMC PFS quarterly meeting is scheduled for March 6, 2024 where key discussion topics will include member updates, reviewing and prioritizing (via member voting) new projects to advance for further consideration at the May 2024 Annual Meeting, and finalizing the agenda and logistics for the 2024 Annual Meeting.

TMC PFS Virtual Technical Exchange. The next virtual technical exchange on *TMCs Role with Detecting and Verifying Wrong Way Driving Events* is scheduled for February 7, 2024.

TMC PFS In-person Meeting. Planning will continue for this scheduled for May 8-10, 2024 in Lee's Summit, Missouri.

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

- Final draft report and initial draft of three presentations expected in Q1 2024.

Sharing Information on TMS Emerging Topics

- Topic 1 (Locating Incidents Outside of Surveillance Areas) Webinar to occur in Q1 2024.
- Topic 2 (Establishing Geofence Locations) Webinar to occur in Q2 2024.
- Topic 3 (TMSs Sharing Incident Information w/in Agency) Webinar to occur in Q2 2024.
- Topic 4 (Using Variable Speed Limits (VSL) During Adverse Weather) Final fact sheet and presentation expected in Q1 2024.
- Topic 5 (TMCs Actively Managing and Operating Part-time Shoulder Use) Final white paper, draft fact sheet and draft presentation expected in Q1 2024.
- Topic 6 (Methods and Tools to Estimate Staffing Needs) Final white paper, draft fact sheet and draft presentation expected in Q1 2024.
- Topic 7 (TMCs Actively Managing Use of Queue Warning Messages on Freeways) Draft white paper expected in Q1 2024.
- Topic 8 (Performance of TMC Operators) Draft white paper expected in Q1 2024
- Task order will be modified to add funding in support of contractor pursuing Topics 9, 10, 11, and 12 in Q1.

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

- Draft annotated outlines for the technical reports for Sharing Data and Using Data expected in Q1 in 2024.

Planning to Frame the Strategic Direction and Future Investments in TMS

- Initial draft of the technical report expected in Q1 in 2024.

Using Social Media Information to Improve TMS Operations

- Initial draft of the technical report expected in Q1 in 2024.

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

- Draft white paper expected in Q1 in 2024.

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

- Draft white paper expected in Q1 in 2024.

Significant Results:

Several recently completed TMC PFS-funded reports have been submitted into the publication process and are expected to become publicly available 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 in Q1 of 2024 to initiate the new projects selected at the 2023 In-person meeting to be advanced when funding is made available to the TMC PFS in Q2 of 2024.