

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 4/9/2025

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 checked="" 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 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
\$ 7,525,569 (Commitment Total for 2 Phases)	\$ 5,992,025.82 (Total for 2 Phases)	73 (Total for 2 Phases)
\$ 4,050,000 (Commitment for TPF-487)		

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$ 181,980.12	\$ 181,980.12	

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:

Sharing Information on TMS Emerging Topics

- Methods and Tools to Estimate Staffing Needs: Final factsheet [published](#) on 1/17/25; final presentation [published](#) 1/17/25.
- TMSs Actively Managing the Display of Queue Warning Messages: webinar held 2/19/25; recording and slides available on [NOCOE's website](#); Final factsheet [published](#) on 1/17/25; final presentation [published](#) 1/17/25.
- TMC Operator Performance: webinar scheduled for 4/16/25; final presentation submitted 3/28/25.

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

- Sharing Data
 - Comments submitted to contractor on revised draft technical report 3/26/25.
 - Revised draft fact sheet submitted 3/5/25.
- Using Data
 - Revised draft technical report submitted 2/13/25.

Planning to Frame the Strategic Direction and Future Investments in TMS

- Continued to work on the final technical report, revised draft fact sheet and revised draft presentation.

Using Social Media Information to Improve TMS Operations

- Final technical report submitted 3/3/25.

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

- Identifying Staffing Needs
 - Initial draft technical report submitted 1/23/25 and comments provided to contractor 3/27/25.
- Developing or Updating Staffing Plans
 - Initial draft technical report submitted 2/10/25.

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

- Final annotated outline of the technical report submitted 2/7/25.
- Work initiated on initial draft report 2/7/25.

Classifying, Measuring, Collecting, and Using Information on the Conditions of TMS Assets

- List of agencies to interview and interview questions submitted on 2/3/25 and approved on 2/19/25.

Locating and Placing TMS Devices

- List of agencies to interview and interview questions submitted on 2/25/25.

The TMC PFS co-sponsored a workshop at TRB on January 5 on *Estimating Staffing Needs and Developing Staffing Plans for TMS*. The workshop shared information in support of the range of issues, practices, and resources agencies might use when estimating the workload for key positions in a TMS, all of the potential staffing and resource needs of the TMS, and considerations when developing or updating a TMS staffing plan.

A Virtual Technical Exchange exploring *Opportunities to Use CAV Data from Original Equipment Manufacturers (OEMs) for TMC Operations (Part I)* was held on 2/5/25 highlighting Pennsylvania DOT experiences. These quarterly meetings provide a forum for TMC PFS members to exchange information on key technical topics of interest.

A quarterly conference call was conducted on 3/5/25. During the meeting, members reviewed current progress on projects, provided updates on agency' activities, and reviewed possible new 2025 projects and next steps.

Anticipated work next quarter:

TMC PFS Virtual Technical Exchange. The next virtual technical exchange on *Opportunities to Use CAV Data for TMC Operations (Part II)*, which will highlight Utah DOT experiences, is scheduled for April 2, 2025.

TMS PFS Quarterly Meeting. The next quarterly meeting with members to review progress on all of the current and planned TMC PFS projects and activities is scheduled for June 4, 2025.

Sharing Information on TMS Emerging Topics (Phase 1)

- Performance of TMC Operators: Draft white paper, fact sheet and webinar expected (4/16/25) in Q2 2025.
- Topics on *Performance of TMS, AI/ML for Performing TMS Functions, Partnering with Universities for TMC Support, TMS Cybersecurity* assigned to contractor to begin working in Q2 2025.

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

- Sharing Data
 - Final technical report expected in Q2 2025.
 - Final fact sheet expected in Q2 2025.
- Using Data
 - Final technical report expected in Q2 2025.

Planning to Frame the Strategic Direction and Future Investments in TMS

- Final technical report expected in Q2 2025.
- Final draft fact sheet and presentation expected in Q2 2025.

Using Social Media Information to Improve TMS Operations

- Report and fact sheet expected to be submitted into publication process in Q2 2025.
- Draft and final fact sheet and technical presentation expected in Q2.

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

- Identifying Staffing Needs
 - Revised draft technical report expected in Q2 2025.
- Developing or Updating Staffing Plans
 - Revised draft technical report expected in Q2 2025.

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

- Initial draft technical report expected in Q2 2025.

Classifying, Measuring, Collecting, and Using Information on the Conditions of TMS Assets

- Draft white paper expected in Q2 2025.

Locating and Placing Traffic Management System Field Devices

- Draft white paper expected in Q2 2025.

During Q2 2025, Request for Proposals (RFPs) are expected to be released under the FHWA Operations Indefinite Quantities Contract (OPS V BPA) for the following task order(s) being funded by the PFS:

1. Sharing Information and Practices on TMS Emerging Topics (Phase 2)
2. Plans, Methods and Resources to Maintain and Sustain TMS Assets
3. Sharing Information on TMS Program Organization, Management, Performance, and Staffing

During Q2 2025, Request for Proposals (RFPs) is expected to be released, or an existing task order modified by FHWA, in support of the reimbursement of travel for TMC PFS members participating in future in-person meetings.

Significant Results:

The TMC PFS continues to add new projects to its portfolio and continues to grow in membership.

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).

Due to FHWA travel restrictions, the 2025 In-Person meeting originally scheduled for May 13-16, 2025 in San Antonio, TX was postponed. The meeting is tentatively being re-scheduled for September 2025.

Potential Implementation:

The scope of work and procurement documents to initiate the three new projects selected at the 2024 In-Person Meeting were developed and advanced into the FHWA procurement process in Q4 of 2024 and Q1 of 2025. These projects will advance when FHWA's restrictions on contracting is lifted.