

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 7/30/2025

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 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: 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): Chip Millard	Phone Number: (202) 366-4415	E-Mail Chip.Millard@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
\$ 7,625,569 (Commitment Total for 2 Phases) \$ 4,150,000 (Commitment for TPF-487)	\$ 6,162,460.01 (Total for 2 Phases)	81 (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
\$ 170,434.19	\$ 170,434.19	

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

- TMC Operator Performance: webinar held 4/16/25; recording and slides available on [NOCoe's website](#). Final factsheet submitted 6/6/25.
- Monitoring and Reporting on Performance of TMS: Draft white paper submitted 5/2/25.
- AI/ML for Performing TMS Functions: Draft white paper submitted 6/15/25.

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

- Sharing Data
 - Final technical report submitted 6/13/25.
- Using Data
 - Continued to work on the final report.

Planning to Frame the Strategic Direction and Future Investments in TMS

- Continued to work on the final technical report.
- Submitted final presentation on 6/4/25. Also presented to the TMC PFS during the Quarterly Meeting held 6/4/25.

Using Social Media Information to Improve TMS Operations

- Project ended 4/2/25. Final report is in publication process.

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

- Identifying Staffing Needs
 - Revised draft technical report submitted 5/16/25.
- Developing or Updating Staffing Plans
 - Revised draft technical report submitted 6/20/25.

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

- Continued to work on the initial draft technical report.

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

- Participated in interviews with public agencies in June.
- Draft white paper submitted 6/26/25.

Locating and Placing TMS Devices

- Participated in interviews with public agencies in June.
- Draft annotated outline for the technical report submitted 6/18/25.

A Virtual Technical Exchange exploring *Opportunities to Use CAV Data from Original Equipment Manufacturers (OEMs) for TMC Operations (Part II)* was held on 4/2/25 highlighting Utah DOT's 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 6/4/25. During the meeting, members reviewed current progress on projects, provided updates on agency' activities, planned for the 2025 Annual Meeting, and were introduced to a feedback questionnaire to gather input on the future direction of the TMC PFS.

Anticipated work next quarter:

TMC PFS Virtual Technical Exchange. The next virtual technical exchange on *TMS Using Unmanned Aerial Systems (UAS)*, which will highlight Ohio DOT's experiences, is scheduled for August 6, 2025.

Sharing Information on TMS Emerging Topics

- *Monitoring and Reporting on Performance of TMS:* Final white paper, draft fact sheet and draft presentation expected in Q3 2025.
- *AI/ML for Performing TMS Functions:* Final white paper, draft fact sheet and draft presentation expected in Q3 2025.
- *Partnering with Universities for TMC Support:* Draft white paper expected in Q3 2025.
- *TMS Cybersecurity:* Draft white paper expected in Q3 2025.

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

- *Sharing Data*
 - Final technical report expected to be put into publication process in Q3 2025.
 - Revised fact sheet expected in Q3 2025.
- *Using Data*
 - Final technical report expected in Q3 2025.

Planning to Frame the Strategic Direction and Future Investments in TMS

- Final technical report expected in Q3 2025.

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

- *Identifying Staffing Needs*
 - Final technical report expected in Q3 2025.
- *Developing or Updating Staffing Plans*
 - Final technical report expected in Q3 2025.

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

- Initial draft technical report expected in Q3 2025.

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

- Final white paper expected in Q3 2025.

Locating and Placing Traffic Management System Field Devices

- Revised annotated outline for the technical report expected in Q3 2025.

Significant Results:

Following the departure of former TMC PFS Lead Contact Jon Obenberger (FHWA), the TMC PFS is now under the leadership of Chip Millard (FHWA). Additionally, as of Q2, the TMC PFS elected the following new chair/co-chairs:

- Chair: Juan Hernandez (Nevada DOT)
- Co-Chair: Suzette Peplinski (Michigan DOT)
- Co-Chair: David Gaffney (Pennsylvania DOT)

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 Annual Meeting that was originally scheduled for May 14-16, 2025 in San Antonio, TX was postponed. The meeting is now scheduled to occur September 10-12, 2025 in Austin, Texas in coordination with TXDOT's TSMO Summit that is occurring that same week.

Potential Implementation:

The initiation of the three new projects selected at the 2024 Annual Meeting is currently suspended while the TMC PFS assesses its future direction under new leadership.