

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 1/21/2025

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 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) – Initial or Phase I</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
\$ 7,525,569 (Commitment Total for 2 Phases) \$ 4,050,000 (Commitment for TPF-487)	\$ 5,811,346.70 (Total for 2 Phases)	71 (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
\$ 450,324.70	\$ 450,324.70	

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

- Topic 5 (TMCs Actively Managing and Operating Part-time Shoulder Use): webinar held 10/16/24; recording and slides available on [NOCoe's website](#). Final factsheet [published](#) on 10/30/24; final presentation [published](#) 10/30/24.
- Topic 6 (Methods and Tools to Estimate Staffing Needs): webinar held 12/11/24; recording and slides available on [NOCoe's website](#). Final factsheet [published](#) on 1/17/25; final presentation [published](#) 1/17/25.
- Topic 7 (TMSs Actively Managing the Display of Queue Warning Messages): webinar scheduled for 2/19/25; Final factsheet [published](#) on 1/17/25; final presentation [published](#) 1/17/25.

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

- Sharing Data
 - Revised draft technical report submitted 10/4/24.
 - Initial fact sheet submitted 11/1/24.
- Using Data
 - Draft technical report submitted 10/22/24.

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

- Revised draft technical report submitted 11/1/24.

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

- Technical report on *Inventorying, Documenting, and Configuring TMS Assets and Resources* [published](#) on 12/12/24.
- Presentation on *Establishing and Using a Traffic Management System Inventory* [published](#) on 1/8/25.
- Presentation on *Documenting and Configuring a Traffic Management System Inventory* [published](#) on 1/8/25.
- Presentation on *Assessing and Reporting on TMS Capabilities and Performance* [published](#) on 1/8/25.

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

- Identifying Staffing Needs
 - Continued to work on initial draft technical report.
- Developing or Updating Staffing Plans
 - Final annotated outline submitted 11/4/24.

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

- Final annotated outline of the technical report submitted 11/20/24.

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

- *Classifying, Measuring, Collecting, and Using Information on the Conditions of TMS Assets*: Kickoff held 11/26/24; meeting minutes submitted 12/5/24. Project Management Plan submitted and accepted 11/12/24.

- *Locating and Placing TMS Devices*: Kickoff held 11/26/24; meeting minutes submitted 12/4/24. Project Management Plan submitted and accepted 11/22/24.

A quarterly conference call was conducted on 12/4/24. During the meeting, members reviewed current progress on projects, provided updates on agency' activities, and reviewed possible new 2025 projects and next steps.

A Virtual Technical Exchange exploring *Implications of Resale of Video Feeds/Other Data* was held on 11/6/24. 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 Virtual Technical Exchange. The next virtual technical exchange on *Opportunities to Use CAV Data from OEMs for TMC Operations* is scheduled for February 5, 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 March 5, 2025.

Sharing Information on TMS Emerging Topics (Phase 1)

- Topic 7 (TMCs Actively Managing Use of Queue Warning Messages on Freeways): Webinar scheduled for 2/19/25.
- Topic 8 (Performance of TMC Operators): Draft white paper, fact sheet and presentation expected in Q1 2025
- Topics 9, 10, 11, and 12 assigned to contractor to begin working in Q1 2025.

Sharing Information on TMS Emerging Topics (Phase 2 – Pursue 4 New Topics – fact sheet, powerpoint, webinar)

- Scope of work, procurement documents, and procurement of phase 2 of the project expected in Q1 2025.

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

- Sharing Data:
 - Revised draft technical report expected in Q1 2025.
 - Revised fact sheet expected in Q1 2025.
- Using Data:
 - Revised draft technical report expected in Q1 2025.
 - Initial fact sheet expected in Q1 2025.

Planning to Frame the Strategic Direction and Future Investments in TMS

- Final technical report expected in Q1 2025.
- Revised draft fact sheet and presentation expected in Q1 2025.

Using Social Media Information to Improve TMS Operations

- Final technical report expected in Q1 2025.

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

- Identifying Staffing Needs
 - Initial draft technical report expected in Q1 2025.
- Developing or Updating Staffing Plans
 - Initial draft technical report expected in Q1 2025.

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

- Initial draft technical report expected in Q1 2025.

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

- Draft white paper expected in Q1 2025.

Locating and Placing Traffic Management System Field Devices

- Draft white paper expected in Q1 2025.

Plans, Methods and Resources to Support Maintaining and Sustaining TMS Assets

- Scope of work, procurement documents, and procurement of phase 2 of the project expected in Q1 2025.

TMS Program Organization, Management, Performance, Staffing and Support Resources

- Scope of work, procurement documents, and procurement of phase 2 of the project expected in Q1 2025.

Significant Results:

The following reports from completed TMC PFS-funded projects were published in Q4 2024, shared with members, and available to access on the TMC PFS website:

1. Inventorying, Documenting, and Configuring Traffic Management System Assets and Resources ([FHWA-HTR-25-031](#))

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 2025 to initiate the new projects selected to be advanced at the 2024 In-Person Meeting.