

## TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 4/22/2026

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.*

<b>Transportation Pooled Fund Program Project #</b> <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i>  TPF-5(487) (Initial Phase <u>TPF-5(319)</u> )		<b>Transportation Pooled Fund Program - Report Period:</b> <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)	
<b>Project Title:</b> Transportation Management Center Pooled Fund Study Phase II ((TPF-5(487) and <u>TPF-5(319) – Initial or Phase I</u> )			
<b>Name of Project Manager(s):</b> Chip Millard	<b>Phone Number:</b> N/A	<b>E-Mail</b> Chip.Millard@dot.gov	
<b>Lead Agency Project ID:</b> DTFH61-06-D-0004-T-11008	<b>Other Project ID (i.e., contract #):</b>	<b>Project Start Date:</b> Feb. 1, 2000	
<b>Original Project End Date:</b> Sept. 30, 2010	<b>Current Project End Date:</b> Apr. 16, 2027	<b>Number of Extensions:</b> 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
\$ 7,675,569 (Commitment Total for 2 Phases)	\$ 6,741,218.49 (Total for 2 Phases)	88 (Total for 2 Phases)
\$ 4,200,000 (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
\$ 234,435.02	\$ 234,435.02	

**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*

- Monitoring and Reporting on Performance of TMS
  - Presentation: Initial draft submitted 1/5/26.
- AI/ML for Performing TMS Functions:
  - Factsheet: Final submitted 2/23/26.
  - Presentation: Final submitted 2/23/26.
- TMS Cybersecurity
  - White Paper: Final submitted 3/6/26.
  - Factsheet: Revised version submitted 3/19/26.
  - Presentation: Revised version submitted 3/19/26

*Planning to Frame the Strategic Direction and Future Investments in TMS*

- Final technical report, fact sheet and presentation submitted into FHWA publication process on 2/11/26.

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

- Technical Report:
  - Final report on *Identifying Staffing Needs* submitted into FHWA publication process on 2/25/26.
  - Final report on *Developing or Updating Staffing Plans* submitted into FHWA publication process on 3/10/26.
- Presentation: The presentation was submitted into the FHWA publication process on 2/25/26. The project team presented the presentation to the TMC PFS members during the TMC PFS Quarterly Meeting held on 3/4/26.

*Enabling the Sharing and Use of Software and Application Programming Interfaces (APIs) for TMS*

- Technical report: submitted into FHWA publication process on 3/25/26.
- Fact sheet: Initial draft submitted 2/6/26.
- Presentation: Initial draft submitted 2/6/26.

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

- Technical Report: Continued to work on the revised annotated outline.

*Locating and Placing TMS Devices*

- White paper: Final submitted on 2/26/26.
- Technical report: Draft submitted on 3/5/26.

A Virtual Technical Exchange exploring *Artificial Intelligence (AI) and Machine Learning (ML) for Traffic Management Systems (TMS)* was held on 2/4/26 highlighting Utah DOT and Florida 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 3/4/26. During the meeting, Leidos presented on *TMS Staffing: Methods to Identify Staffing Needs and Develop Staffing Plans*, members reviewed current progress on projects, members provided updates on agency activities, and members reviewed possible new 2026 projects and next steps.

**Anticipated work next quarter:**

*TMC PFS Virtual Technical Exchange.* The next virtual technical exchange on *Exchanging Incident/Weather Messaging*, which will highlight Missouri DOT and Utah DOT's experiences, is scheduled for June 3, 2026.

*TMC PFS Annual Meeting: The TMC PFS Annual In-person meeting is scheduled for May 13-15, 2026, in Salt Lake City, Utah and will be hosted by the Utah Department of Transportation. Key discussion topics will include member updates, a review of progress on current projects with contractors, and the review of new projects to be initiated in the coming year.*

*Sharing Information on TMS Emerging Topics*

- *Monitoring and Reporting on Performance of TMS:* Final white paper, fact sheet and presentation expected in Q2 2026.
- *AI/ML for Performing TMS Functions:* Final fact sheet and presentation expected to be submitted for publication in Q2 2026.
- *Partnering with Universities for TMC Support:* Draft and final white paper, draft and final fact sheet, and draft and final presentation expected in Q2 2026.
- *TMS Cybersecurity:* final fact sheet and presentation expected in Q2 2026.

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

- Outreach materials expected to be finalized and put into publication process in Q2 2026.

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

- Revised draft annotated outline for the technical report expected in Q2 2026.

*Locating and Placing Traffic Management System Field Devices*

- Revised technical report expected in Q2 2026.

During Q2 2026, 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. Developing Standard Performance Indicators for TMC Performance Measurement
2. Assessing the Future Impacts of Autonomous Vehicles on TMCs.

NOTE: these two task orders may be combined into one RFP.

**Significant Results:**

- Several TMC PFS-funded project reports are currently undergoing publication review or are expected to be finalized and submitted for publication review in Q2 2026.

**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).**

N/A

**Potential Implementation:**

The scope of work and procurement documents will be developed in Q2 2026 to initiate the new projects selected to be advanced in 2026.