

## TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: 4/12/2021

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.*

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|--|---|--|--|
| <b>Transportation Pooled Fund Program Project #</b><br><i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i><br><br>TPF-5(319) |   | <b>Transportation Pooled Fund Program - Report Period:</b><br><input checked="" type="checkbox"/> Quarter 1 (January 1 – March 31)<br><input type="checkbox"/> Quarter 2 (April 1 – June 30)<br><input type="checkbox"/> Quarter 3 (July 1 – September 30)<br><input type="checkbox"/> Quarter 4 (October 1 – December 31) |  |
| <b>Project Title:</b><br>Transportation Management Center Pooled Fund Study  |   |  |  |
| <b>Name of Project Manager(s):</b><br>Jon Obenberger   | <b>Phone Number:</b><br>202-493-3265              | <b>E-Mail</b><br>jon.obenberger@dot.gov  |  |
| <b>Lead Agency Project ID:</b><br>DTFH61-06-D-0004-T-11008   | <b>Other Project ID (i.e., contract #):</b>       | <b>Project Start Date:</b><br>Feb. 1, 2000   |  |
| <b>Original Project End Date:</b><br>Sept. 30, 2010  | <b>Current Project End Date:</b><br>Apr. 16, 2022 | <b>Number of Extensions:</b><br>3  |  |

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 |
|----------------------|--------------------------------|--------------------------------------|
| \$ 5,748,774         | \$ 3,746,595                   | 67                                   |

Quarterly Project Statistics:

| Total Project Expenses and Percentage This Quarter | Total Amount of Funds Expended This Quarter | Total Percentage of Time Used to Date |
|--|---|---------------------------------------|
| \$ 13,454  | \$ 13,454                                   |                                       |

**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.):**

Information and Analysis of TMC Staff and Staffing Contracts:

- Draft Technical Guidelines Report: Submitted March 29, 2021; is currently under review by the PFS review team.

Traffic Management System (TMS) Asset Management Planning and Life Cycle Cost Analysis:

- Final Synthesis Literature Review Report: Submitted January 30, 2021 and accepted in February.
- Final Annotated Outline of Technical Report: Initial Outline submitted January 25, 2021; awaiting submissions of Draft and Final Annotated Outlines.

Inventorying, Documenting and Configuring TMC Assets & Resources:

- Letter Report: Draft submitted January 6, 2021; final submitted March 16, 2021 and is currently under review by the PFS review team.
- Annotated Outline of Technical Report: Initial outline submitted in February 2021; awaiting submission of revised outline.

*Applying Predictive Analytics into the real-time management and operation of traffic management systems (TMSs):*

- Synthesis Literature Review Report: Draft submitted February 8, 2021; final expected in April.
- Annotated Outline of Technical Report: Draft submitted February 8, 2021; Revised Annotated Outline expected in April.

A quarterly conference call was conducted on March 3, 2021. As there was no in-person TMC PFS annual meeting in 2020, one half of the members provided updates during this meeting on the key accomplishments and planned TMC related activities of their agency to continue the sharing of practices and information among agencies (the other half of members provided updates during the December 2020 meeting). Updates members provided are available on the TMC Portal located on the National Operations Center of Excellence webpage at: <https://transportationops.org/traffic-management-systems-and-centers/tmc-pooled-fund-study-and-projects>.

The PFS also updated 2-page project proposals for the 10 projects the PFS members were most interested in advancing in CY2021 based on feedback members provided during the November and December meetings to select new projects. The PFS expects to have sufficient funding to advance five of these projects in CY2021. The scopes of work and procurement documents are being prepared for these five projects:

- 1) Sharing Information and Practices on TMS Emerging Topics,
- 2) Integrating and Using New Data Sources in TMSs,
- 3) Options for TMSs to Receive and Share Data from Multiple Sources,
- 4) Developing Multi-year Plans to Guide TMSs' Strategic Direction and Future Investments, and
- 5) Using Data from Social Media to Improve TMS Management and Operation.

**Anticipated work next quarter:**

*TMC PFS Meetings:* The next TMC PFS quarterly meeting is scheduled for June 2, 2021 where key discussion topics will include *How to Frame Asset Management for TMSs and Link to Agency Asset Management Efforts* and *How to Frame Options to Plan for TMS Improvements and Link to TSMO and Agency Plans and Planning*.

*Capability and Usage Guidelines for Color Changeable Message Signs:* The Task 3 Current Practices and Research report is complete. The Task 4 Research Report is completed. The report is expected to be approved by the FHWA Publication Process in April of 2021.

*Use of Performance Dashboards for Communicating the Benefits of Traffic Operations:* The final project report is completed. The report is expected to be approved by the FHWA Publication Process in April of 2021.

*Performance Measures and Health Index of ITS Assets:* The final project report is completed. The report is expected to be approved by the FHWA Publication Process in April of 2021.

*Information and Analysis of TMC Staff and Staffing Contracts:*

- Revised Technical Guidelines Report is expected to be submitted for review in May (draft was submitted in March).

*Traffic Management System (TMS) Asset Management Planning and Life Cycle Cost Analysis:*

- Final Annotated Outline of Technical Report: Draft annotated outline expected in April and final in June.

*Inventorying, Documenting, Configuring, and Assessing Traffic Management Systems (TMSs):*

- Final Annotated Outline: Planned for June 2021 (initial draft was submitted in February).

*Applying Predictive Analytics into the real-time management and operation of traffic management systems (TMSs):*

- Final Letter Report: Planned for April 2021 (draft was submitted in February).
- Final Annotated Outline of Technical Report: Planned for April 2021 (draft annotated outline was submitted in February).

For selected CY2021 Projects, planned work for April – June includes:

- Developing scopes of work & procurement documents,
- Initiating the procurement process, and
- Beginning the process to identify new projects for TMC PFS to advance in 2022.

**Significant Results:**

N/A

**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 next quarterly meeting of the TMC PFS is scheduled for June 2, 2021. The scope of work and procurement documents will be developed in the second quarter to initiate the 5 new projects selected to be advanced in 2021.