**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: 1/6/2020

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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| **Transportation Pooled Fund Program Project #**  *(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)*  TPF-5(319), SRP-2(207) and TPF-5(052) | | **Transportation Pooled Fund Program - Report Period:**  Quarter 1 (January 1 – March 31)  Quarter 2 (April 1 – June 30)  Quarter 3 (July 1 – September 30)  Quarter 4 (October 1 – December 31) | |
| **Project Title:**  Transportation Management Center Pooled Fund Study | | | |
| **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, 2022 | | **Number of Extensions:**  3 |

Project schedule status:

🗹 On schedule □ On revised schedule □ Ahead of schedule □ Behind schedule

Overall Project Statistics:

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| **Total Project Budget** | **Total Cost to Date for Project** | **Percentage of Work**  **Completed to Date** |
| 4,648,100 | 3,407,402 | 73 |

***Quarterly*** Project Statistics:

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| **Total Project Expenses**  **and Percentage This Quarter** | **Total Amount of Funds**  **Expended This Quarter** | **Total Percentage of**  **Time Used to Date** |
| 245,870 | 245,870 |  |

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| **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. |

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| **Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**  Capability and Usage Guidelines for Color Changeable Message Signs: The preliminary guidelines for using color full-matrix changeable message signs have been completed and will be published soon. Laboratory data collection to support a human factors study that would analyze the effects of using colors, symbols and graphics on color, full matrix signs was completed. The project contractor was performing field data collection in this quarter. An annotated outline for the final report was reviewed by the project committee.  Streaming Video Sharing and Distribution: The project report has been completed and the report has been published.  IT Security Guidance for TMCs: The final project report has been published. A webinar to disseminate the research results was held on November 19, 2019.  Use of Performance Dashboards for Communicating the Benefits of Traffic Operations: The project committee reviewed and provided comments on the letter report that synthesized literature search and data collection. A draft annotated outline for the project report was submitted and reviewed by the project committee.  Performance Measures and Health Index of ITS Assets: A revised literature review report was submitted. A draft annotated outline for the project report was submitted as well. This is a 14-month project and a project report is anticipated in July 2020.  Information and Analysis of TMC Staff and Staffing Contracts: A project kickoff meeting was held on September 12, 2019. This is an 18-month project and a final technical guidelines document will be produced in March 2021.  A quarterly conference call was held on December 2, 2019. Members reviewed the progress of on-going projects, prepared for the 2020 annual meeting, discussed the annual project identification and prioritization process, and discussed opportunities for collaboration and information sharing with other groups. |
| **Anticipated work next quarter**:  Capability and Usage Guidelines for Color Changeable Message Signs: The human factors study would be completed. A draft project report would be submitted for review in February 2020.  Use of Performance Dashboards for Communicating the Benefits of Traffic Operations: A revised annotated outline for the project report would be submitted for review in the next quarter.  Performance Measures and Health Index of ITS Assets: The project contractor would start drafting the technical guidelines report. The project was on schedule.  Information and Analysis of TMC Staff and Staffing Contracts: The project contractor is drafting a synthesis report that will identify existing TMC functions and describe variations in the way tasks are allocated between man and machine.  A quarterly conference call will be held in March 2020. Members will review the progress of on-going projects, discuss and prioritize needs, preliminarily identify projects for the 2020 project selection cycle, and initiate the planning activities for the annual meeting in 2020. |

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| **Significant Results:**  A T3 webinar was held on November 19 to disseminate the research results from the TMC Information Technology Security project. Jimmy Chu (FHWA) hosted the webinar, and Lisa Miller (Utah DOT) moderated the presentations and discussions.  The final report for the Streaming Video Sharing and Distribution project is available at: <https://ops.fhwa.dot.gov/publications/fhwahop19037/index.htm>.  The final report for the Consideration of Current and Emerging TMC Data project is available at: <https://ops.fhwa.dot.gov/publications/fhwahop18084/index.htm>.  The report for the Transportation Management Center Information Technology Security project is available at: <https://ops.fhwa.dot.gov/publications/fhwahop19059/index.htm>. |
| **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 encountered to date. |

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| **Potential Implementation:**  Additional webinars to broadcast research results and products by the TMC pooled fund study will be arranged and rolled out on a quarterly basis. |