**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: 10/8/2019

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):**  Jimmy Chu | **Phone Number:**  202-366-3379 | | **E-Mail**  Jimmy.chu@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, 2020 | | **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 | 3,161,532 | 68 |

***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** |
| 118,362 | 118,362 |  |

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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. The project contractor is performing a human factors study to analyze the effects of using colors, symbols and graphics on color, full matrix signs.  Streaming Video Sharing and Distribution: The project report has been completed and will be published upon FHWA final review. A webinar to disseminate the project results was held on September 5, 2019.  Use of Performance Dashboards for Communicating the Benefits of Traffic Operations: A letter report synthesizing literature search and data collection was submitted. The project was on schedule.  Performance Measures and Health Index of ITS Assets: A draft literature review report was submitted on August 29, 2019. 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 August 29, 2019. Members reviewed the progress of on-going projects, and discussed and confirmed the scopes, priorities and schedule of upcoming projects. |
| **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 November/December 2019.  Use of Performance Dashboards for Communicating the Benefits of Traffic Operations: The revised letter report synthesizing literature search and data collection would be submitted in early October 2019. A draft annotated outline for the project report would be submitted for review in the 4th quarter as well.  IT Security Guidance for TMCs: The final project report (technical guidelines) will be produced in October 2019. A webinar to disseminate the research results will be held in the 4th quarter.  A quarterly conference call will be held in December 2019. Members will review the progress of on-going projects, share recent experience and lesson learned, 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 September 5 to disseminate the research results from the TMC Streaming Video Sharing and Distribution project. Jimmy Chu (FHWA) hosted the webinar, and Shari Hillard (Kansas DOT) moderated the presentations and discussions. The webinar included presenters from the project team, Tennessee DOT and Maryland 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).**  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. |