**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: \_\_7/9/2019\_\_\_\_\_\_\_\_\_

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) | | **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:**  April 17, 2015 |
| **Original Project End Date:**  **April 16, 2020** | **Current Project End Date:**  Apr. 16, 2020 | | **Number of Extensions:**  1 |

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 | 3,043,170 | 65 |

***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** |
| 114,452 | 114,452 |  |

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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.  Considerations of Current and Emerging TMC Data: The project report has been completed and will be published upon FHWA final review. A webinar to disseminate the project results was held on May 8, 2019.  Streaming Video Sharing and Distribution: The project report is under review by the project committee. A webinar will be held upon project completion to facilitate broader project result dissemination.  Use of Performance Dashboards for Communicating the Benefits of Traffic Operations: A project kick-off meeting was held on February 25, 2019. A letter report synthesizing literature search and data collection will be submitted in the third quarter of 2019. The project is on schedule.  Performance Measures and Health Index of ITS Assets: A kickoff meeting was held on May 21, 2019. This is a 14-month project and a project report is anticipated in July 2020.  The TMC Pooled Fund Study Annual Meeting was held on May 14 and 15 in Denver, Colorado. Members reviewed the project status and progress, discussed plans for the program, prioritized and selected projects/studies to initiate in 2020, and toured the Colorado DOT Region 1 TMC in Golden, Colorado. Representatives from eight member states also participated in a FHWA sponsor TSMO workshop – Leveraging and Coordinating technology Resources for TSMO on May 16, 2019. |
| **Anticipated work next quarter**:  Capability and Usage Guidelines for Color Changeable Message Signs: The human factors study will continue through the fall of 2019.  Considerations of Current and Emerging TMC Data: A final project report is anticipated to be published in the third quarter of 2019. A webinar will be held to disseminate the project results.  Use of Performance Dashboards for Communicating the Benefits of Traffic Operations: A letter report synthesizing literature search and data collection will be submitted in the third quarter of 2019.  IT Security Guidance for TMCs: The final project report (technical guidelines) will be produced in September or October 2019.  A quarterly conference call will be held in August 2019. Members will review the progress of on-going projects, and discuss the scopes, priorities and schedule of upcoming projects. |

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| **Significant Results:**  The TMC Pooled Fund Study Annual Meeting was held on May 14 and 15 in Denver, Colorado. Members from 17 agencies participated in the meeting to share their knowledge and experience, exchange information, and select projects to advance in 2020. Through a need-based and consensus building process, a list of project ideas were identified, further developed and prioritized. The top three projects advanced for funding in 2020 were:   * Predictive Analytics for Traffic Operations * Guidelines for ITS Asset Life Cycle Analysis and Planning * Capability and Maturity Assessment of Traffic Management Systems |
| **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. |