**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: \_\_10/31/2018\_\_\_\_\_\_\_\_\_

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** |
| 4,382,976 | 2,651,512 | 60 |

***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** |
| 89,260 | 89,260 |  |

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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.):**  The Travel Time Displays at Freeway Entrance Approaches project has been completed. A final report has been published: <https://www.fhwa.dot.gov/publications/research/safety/16059/index.cfm>.  The Effects on ITS Planning and Deployment in a Connected Vehicle Environment project has been completed. A final report has been published: <https://ops.fhwa.dot.gov/publications/fhwahop18014/index.htm>.  Capability and Usage Guidelines for Color Changeable Message Signs: Revised draft guidelines for using color full-matrix changeable message signs were submitted for review in September. A draft research work plan for a human factors study was submitted for review in September.  Considerations of Current and Emerging TMC Data: The project was on schedule. A draft project report would be delivered in October 2018.  The kickoff meeting for the IT Security Guidance for TMCs was held on July 23, 2018.  A quarterly conference call was held on July 18, 2018. Members reviewed the progress of on-going projects and discussed the scopes, priorities and schedule of upcoming projects.  Task Order has been awarded to provide “Transportation Management Centers Streaming Video Sharing and Distribution” and kickoff meeting was conducted on 8/7/2018 |
| **Anticipated work next quarter**:  Capability and Usage Guidelines for Color Changeable Message Signs: The project team will review the research work plan. The human factors study will commence upon approval of the work plan.  Considerations of Current and Emerging TMC Data: A revised draft project report will be submitted for review in November 2018.  A quarterly conference call will be held in November 2018. |

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| **Significant Results:**  The final report for the Travel Time Displays at Freeway Entrance Approaches project has been published. The report explores the optimal ways to provide travel time information at freeway entrance approaches to drivers and to evaluate the influence of travel time information on their route choices and diversion behaviors. The studies presented in this report provide both laboratory and field insights into message format and location, as well as resulting behaviors by commuters.  The final report for the Effects on ITS Planning and Deployment in a Connected Vehicle Environment has been published. The report provides a roadmap and guidance to assist transportation agencies with better preparation for the potential impacts, operational and maintenance activities, resources and system needs and better decision-making for replacement of current ITS assets as well as investments on future ITS assets in a connected vehicle environment. |
| **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. |