**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: 4/16/2020

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) | **Transportation Pooled Fund Program - Report Period:**[x] 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 | 3,497,129 | 75 |

***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** |
| 89,727 | 89,727 |  |

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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. Field data collection was completed. The Human Factors Study Final Report for the Capability and Usage Guidelines for Color Changeable Message Signs was submitted and reviewed by the project committee. Use of Performance Dashboards for Communicating the Benefits of Traffic Operations:. A draft of the project report was submitted and reviewed by the project committee.Performance Measures and Health Index of ITS Assets: A draft of the project report was submitted and reviewed by the project committee. Information and Analysis of TMC Staff and Staffing Contracts: A letter report for the literature research was submitted and approved by the project committee. A quarterly conference call was held on March 4, 2020. 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. In addition to the usual business discussion, the contractor working on the “Performance Measures and Health Index of ITS Assets” project presented the draft project report. |
| **Anticipated work next quarter**:Capability and Usage Guidelines for Color Changeable Message Signs: The human factors study final report would be completed. A webinar will be held to present the findings and results.Use of Performance Dashboards for Communicating the Benefits of Traffic Operations: A final project report would be completed. Performance Measures and Health Index of ITS Assets: The project contractor would start to finalize the final project report. A webinar will be held to present the findings and results.Information and Analysis of TMC Staff and Staffing Contracts: The project contractor is drafting an annotated outlines for the project committee to review.  |

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| **Significant Results:**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. |