**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: \_July 30, 2017\_\_\_\_\_\_\_\_

Lead Agency (FHWA or State DOT): Texas Department of Transportation (TxDOT)\_\_\_\_\_\_\_\_\_\_\_

**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 Federal Project #**  SPR TPF5 (198)  \*Previously SPR-3(049) | | **Transportation Pooled Fund Program - Report Period:**  □Quarter 1 (January 1 – March 31, 2017)  XQuarter 2 (April 1 – June 30, 2017)  □Quarter 3 (July 1 – September 30, 2017)  □Quarter 4 (October 1 – December 31, 2017) | |
| **Project Title:**  Mobility Measurement in Urban Transportation (MMUT)  FYs 2016-2017 | | | |
| **Name of Project Manager(s):**  Casey Dusza | **Phone Number:**  (512) 486-5132 | | **E-Mail**  [Casey.Dusza@txdot.gov](mailto:Casey.Dusza@txdot.gov) |
| **Lead Agency Project ID:** | **Other Project ID (i.e., contract #):**  TxDOT contract 50-0XXIA0012  0000007568 *(starting 9/1/15)* | | **Project Start Date:**  9/8/08 |
| **Original Project End Date:**  8/31/13 | **Current Project End Date:**  8/31/19 | | **Number of Extensions:** |

Project schedule status:

x 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** |
| $3,435,000 | $2,964,146 | % |

***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** |
|  | $149,732 |  |

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| **Project Description**:   |  | | --- | | **Background:** This study will be a continuation of existing project SPR-3(049) – now SPR TPF5 (198) – with the same scope, objectives, and contractor (TTI). | | **Objectives:** 1) Investigation of new and emerging datasets for mobility analyses; conduct evaluations of datasets for new and traditional uses. Continued analysis of the NPMRDS. 2) Investigation of arterial route reliability estimation, estimating reference speed, and bottleneck identification in the arterial environment. Documentation of current and evolving practices related to arterial performance monitoring and  reliability estimation.  3) Demonstrations of the target setting practices; provide additional support for MAP‐21/NPRM performance measure estimation.  4) Conduct syntheses on key topic areas of interest to the pooled fund sponsors. 5) Assistance to sponsoring agencies in the application of products in their operations, planning and performance measurement activities within their agency. Respond to requests for mobility data.  6) Develop and demonstrate data integration framework by illustrating how data integration can inform investment decisions and project prioritization.  7) Implementation of an annual mobility performance report that describes all the steps and processes necessary to develop a yearly performance report. | |

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| **Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):** Work is underway on all tasks for FY 2017.  MMUT FY 2017 scope includes topics from 2016 and new topics as listed in the “Objectives” above.  Task 1: Finished updating TTI's performance measure codebase to match the measure definitions provided in FHWA's PM3 Final Rule. Performed a recalculation process to compute the PM3 Final Rule measures for 2015-2016. Coordinating with UMD CATT Lab staff regarding their NPMRDS RITIS-based calculations, and work toward validating these RITIS-based calculations with TTI's calculations.  Task 2: Developed a methodology to generate reference speeds to accompany a given speed dataset regardless of functional classification of roadway. Distributed the methodology to the MMUT states. Investigating the effects of this methodology on the resulting performance measures. Draft deliverable ("Determining Reference Speed from Probe-based Travel Speed Data") distributed to sponsor states in June.  Task 3: Performing follow-up work on factors impacting target results and sensitivity using available speed datasets. Began analysis of datasets to use as background for target setting associated with MAP-21 final measures.  Task 4: Completed work on synthesis on automated vehicle/connected vehicle delay reduction estimation. All FY17 syntheses for this task are now complete and delivered. Submitted "Market Penetration of AV/CV and Associated Effects on Traffic Harmonization & Delay Reduction" synthesis to pooled fund sponsors in June.  Task 5: Providing technical assistance to sponsors via telephone calls and email correspondence; coordinating travel preparations for future site visits.  Task 6: Prepared for and conducted annual meeting in Phoenix, Arizona on June 8, 2017. Developed and distributed meeting minutes from the annual meeting to all sponsors in June.  Task 7: Began reviewing Maryland datasets for demonstration of data integration. Attended kick-off meeting between TTI and Maryland DOT-State Highway Administration staff. Meeting minutes for task kickoff meeting (held in Baltimore, MD) will be sent to all project sponsors in July.  Task 8: Began discussion with Colorado Department of Transportation staff to obtain relevant data elements. |
| **Anticipated work next quarter**: Work will continue on the tasks under the contract for FY 2017.  Task 1: Task completed.  Task 2: Submit final deliverable to sponsor states.  Task 3: Analysis on factors impacting target results associated with MAP-21 final measures.  Task 4: Task complete.  Task 5: Provide assistance with future sponsor requests.  Task 6: Planning for annual meeting in 2018.  Task 7: Submit kickoff meeting notes to sponsors. Continue to work with Maryland DOT on data integration.  Task 8: Prepare for and attend kickoff meeting with Colorado DOT in August. |

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| **Significant Results:**  See Progress; noted deliverables. |
| **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).**  None during this quarter or expected during the next quarter. |

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| **Potential Implementation:** Work this quarter will have positive impacts (research and guidance) for all participating states with regard to evaluating datasets, arterial performance monitoring, performance measures and target setting under MAP-21 and FAST Act for system performance and freight. |