**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: \_May 15, 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:**xQuarter 1 (January 1 – March 31, 2017)□Quarter 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  |
| **Lead Agency Project ID:** | **Other Project ID (i.e., contract #):**TxDOT contract 50-0XXIA00120000007568 *(starting 9/1/15)* | **Project Start Date:**9/8/08 |
| **Original Project End Date:**8/31/13 | **Current Project End Date:**8/31/17 | **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** |
| $3,060,000 | $2,814,413.73 | % |

***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** |
|  | $167,383 |  |

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| **Project Description**:

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| **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 andreliability 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.  |

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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: Prioritizing and developing analysis plan for work items in second half of the fiscal year. Began validation analysis of Maryland CATT lab (RITIS Tool) using NPMRDS datasets. Updated TTI's performance measure code base to match the measure definitions provided in FHWA's PM3 Final Rule. Began 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: Prioritizing and developing analysis plan for work items in second half of the fiscal year. Performed analysis of reference speed impacts on performance measures. Developing a methodology to generate reference speeds to accompany a given speed dataset regardless of functional classification of roadway. This method is being documented and will be distributed to the MMUT states for internal uses. Investigating the effects of this methodology on the resulting performance measures. Task 3: Finalizing draft document on target-setting considerations and possible practices, which includes investigating sample calculations of targets using available datasets. 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: Continuing work on synthesis on automated vehicle/connected vehicle delay reduction estimation and continuing work on sketch-planning tools and techniques to estimate project benefits. Anticipate early April submittal of sketch-planning tools and techniques synthesis. Task 5: Providing technical assistance to sponsors via telephone calls and email correspondence. Planning for early April sponsor visit with NCDOT and SCDOT staff. Task 6: N/A this quarter. |
| **Anticipated work next quarter**: Work will continue on the tasks under the new contract for FY 2017.Task 1: Compute PM3 final rule measures; Validate NPMRDS RITIS-based calculations with TTI's calculations.Task 2: Continued development of methodology to generate reference speeds to accompany a given speed dataset regardless of functional classification of roadway; investigation of the effects on the resulting performance measures. Task 3: Analysis on factors impacting target results associated with MAP-21 final measures. Task 4: TTI to continue work on syntheses and related analysis on key topic areas. Task 5: Provide assistance with future sponsor requests. Task 6: Conduct 2017 annual meeting.  |

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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.  |