**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: \_March 31, 2018\_\_\_\_\_\_\_\_

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:**X Quarter 1 (January 1 – March 31, 2018)□Quarter 2 (April 1 – June 30, 2018)□Quarter 3 (July 1 – September 30, 2018)□Quarter 4 (October 1 – December 31, 2018) |
| **Project Title:**Mobility Measurement in Urban Transportation (MMUT) FYs 2018-2019 |
| **Name of Project Manager(s):**Casey Dusza | **Phone Number:**(512) 486-5149 | **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:**8/31/19 | **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 | $3,364,794 | % |

***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** |
|  | $0 |  |

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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. 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 2018. MMUT FY 2018 scope includes topics from 2017 and new topics as listed in the “Objectives” above. Task 1: Provided additional responses and technical assistance on the draft calculated MAP-21 measures provided in November 2017. Began investigation of methods to evaluate GPS-based dataset usage for traffic flow volume estimation. Task 2: Continued review of NPMRDS federal measure requirements and calculation procedures for measure sensitivity analysis for a given reference speed calculation method. Continued accessibility measure review and data source investigation.Task 3: Using the datasets created in Task 1, completed work to compile guidance information on how to set targets. The TTI project team used more detailed speed data being produced under a separate contract for the Texas DOT and MPOs to examine the sensitivity of the PM3 measures. This was described in detail so that participating states can replicate the analysis. The trends for PM3 measures using NPMRDS Phase 1 and 2 were combined with other congestion trend information (principally the FHWA Urban Congestion Reports) to illustrate how those target setting principles could be applied to create the 2020 and 2022 targets. These illustrative targets were sent to MMUT participants in updated sections to the previously-distributed technical memorandum on target-setting. Completed second webinar on target-setting based upon the January deliverable ("Target Setting for National performance Measurement: Aspects and Possible Processes"). Continued to field questions and comments related to the target-setting deliverable. Continued collecting comments, feedback and experiences of pooled fund members on target-setting for inclusion updated target-setting deliverable. Task 4: Continued work on the update to the Keys to Estimating Mobility Report. TTI completed and delivered the technical memorandum on redundancy and resiliency.Task 5: Sponsor communication and support via telephone calls and email correspondence. Task 6: Hotel deposit for annual meeting in Irving, CA in June.Task 7: Continued investigation of database layers (pavement, bridge, AADT, % trucks) to compute additional layers, including truck volumes. Continued quality assurance/quality control steps in data manipulation. Continued detailed analysis to demonstrate the data integration along a segment of the Baltimore Beltway (I-695).Task 8: Completed conflation process of Colorado volume and speed data. Prepared network data for preliminary analysis and preliminary results in submitted in February. Met up with Colorado DOT staff (Jason Wallis and Amy Ford) while at the Transportation Research Board annual meeting in Washington, D.C. Prepared for, and conducted, meeting with CDOT staff to discuss preliminary results, communications plan, technical needs and next steps and project schedule in March. |
| **Anticipated work next quarter**: Work will continue on the tasks under the contract for FY 2018.Task 1: Continue investigating methods to evaluate GPS-based dataset usage for traffic flow volume estimation.Task 2: Continue to review NPMRDS federal measure requirements and calculation procedures for measure sensitivity analysis for a given reference speed calculation method.Task 3: Continue to field questions and comments related to the target-setting deliverable. Task 4: Continue to work on the update to the Keys to Estimating Mobility Report.Task 5: Sponsor communication and support via telephone calls and email correspondence. Planning for sponsor visits to Virginia, California and Oregon in May.Task 6: Hold annual meeting in Irving, CA in June. Task 7: Meeting minutes for task kickoff meeting (held in Baltimore, MD) will be sent to all project sponsors in July. Task 8: Prepare and deliver meeting minutes from CDOT 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.  |