**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: \_October 30, 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:**□Quarter 1 (January 1 – March 31, 2018)□Quarter 2 (April 1 – June 30, 2018)X 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** |
| $4,270,000 | $3,763,870,.89 | % |

***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** |
|  | $399,077 |  |

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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: Finished and distributed technical memorandum on "Best Practices for Evaluating the Accuracy of GPS Probe-Based Travel Volume Estimates" to all pooled fund sponsors. Began literature review for technical memorandum on using origin-destination data for resiliency analysis and began investigation into the quality of NPMRDS data on lower volume roadways.Task 2: Completed and distributed technical memorandum "Sensitivity of Transportation Performance Measures to Changes in Reference Speed" to all pooled fund sponsors. Began review of planning-level reliability methods to incorporate into FIXIT spreadsheet tool.Task 3: Continued collecting comments, feedback and experiences of pooled fund members on target-setting and began developing updated target-setting deliverable with this information. Updated, finalized and delivered technical memorandum related to target-setting guidance "Target Setting for National Performance Measures: Aspects and Possible Processes." Finalized and delivered technical memorandum "Target Setting for National Performance Measures: Aspects and Possible Processes" to all pooled fund sponsors. TTI began the early planning of the FIXIT tool. Task 4: Continued to work on the update to the Keys to Estimating Mobility. Finalized and delivered Performance Measures Chapter of "Keys to Estimating Mobility." TTI began planning an approach to collect information related to the technical memorandum on estimating planning level reliability from major projects.Task 5: Travel charges for prior site visits were processed during this month. Finalized technical memorandum "Summary of MMUT FY2018 Deliverables by Task" and placed all FY2018 deliverables on the shared drive site for access by all pooled fund members. Delivered technical memorandum "Summary of MMUT FY2018 Deliverables by Task" and placed all FY2018 deliverables on the shared drive site for access by all pooled fund sponsors. Continued sponsor communication and support via telephone calls and email correspondence. Task 6: Processed travel for annual meeting. Prepared and delivered annual meeting minutes for the June Annual Meeting, including scope of work for FY19. Some charges in this month's billing include sponsor travel to the Annual Meeting.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). Completed data integration framework application. Completed and distributed a technical memorandum entitled "The Maryland TOSTADA" (including data, procedures, results and lessons learned) and also distributed a GIS shapefile of combined data layers for the pilot application.Task 8: Prepared report format and began documentation for report. Began documentation for lessons learned technical memorandum. Finalized analysis for final report inclusion. Finalized roadway labeling. Completed and distributed the Colorado Mobility Report and all associated methodologies and supporting Excel files. Completed and distributed, 1) "Colorado Mobility Report: Big Data for Better Performance," 2) Appendix A "100 Colorado Congested Sections 2018 Method," 3) Appendix B "Colorado Mobility Report Methodology," 4) "The Colorado Mobility Report and The Colorado 100" (Data, Procedures, Results and Lessons Learned), 5) "Colorado 2016 Statewide Performance," 6) "Colorado 100 Statistics with Urban Area Splits," and 7) GIS Shapefile of roadway network with computed mobility measures. |
| **Anticipated work next quarter**: Work will continue on the tasks under the contract for FY 2018.Task 1:.Continue literature review for technical memorandum using origin-destination data for resiliency analysis.Task 2: Continue to review of planning-level reliability methods to incorporate into FIXIT spreadsheet tool.Task 3: Begin work on the FIXIT tool.Task 4: Continue to examine ways to collect information related to the technical memorandum on estimating planning level reliability from major projects.Task 5: Continue to support sponsors via telephone and email. Task 6: Begin planning for annual meeting in 2019. Task 7: Work completed under this task.Task 8: Begin work on technical memorandums to describe data and procedures for investment attraction and economic analysis; and origin-destination select link analysis and resiliency analysis.  |

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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.  |