**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: \_January 31, 2019\_\_\_\_\_\_\_\_

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)□Quarter 3 (July 1 – September 30, 2018)X 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 | $3,936,724 | % |

***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** |
|  | $172,853 |  |

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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: Started to identify NPMRDS speed comparison sites on low-volume roads in South Carolina, Virginia, and Colorado. Assessing available speed data in these states, and what can be obtained via online analytics interface vs. a custom request to the state DOT traffic data office. Continued literature review for technical memorandum on using origin-destination data for resiliency analysis. Retrieved state DOT-collected speed data from online traffic data systems in Colorado and Texas. Retrieved NPMRDS data for comparison sites in Colorado. Requested and received DOT-collected speed data from South Carolina. Still working to obtain access to VDOT online traffic data system. Will make initial comparisons of DOT speeds and NPMRDS speed in Colorado in December.Task 2: Continued review of planning-level reliability and literature methods to incorporate into FIXIT spreadsheet tool. Continued literature review in the area of sensitivity analysis of reliability measures to major system changes. Discussed and considered possible enhancements to the FIXIT methodology that would use a more granular time-of-day approach to quantify the impacts of improvements. Continued developing the literature review on the relationship between congestion and reliability benefits and reviewed documents from FHWA, TRB and several MPOs.Task 3: Continued the early planning of the FIXIT tool. Began organizing information and collecting past resources to update the congestion benefits matrix used by the Fixit tool in calculations. Began a literature review on selected topics by contacting and mobilizing the TTI librarian, collecting a set of literature on sketch-planning tools, and developing a literature review matrix to assemble the collected information. Continued compiling a literature review on selected topics by working with the TTI librarian, collecting literature on sketch-planning tools, and entering data into a literature review matrix to assemble the collected information. Continued collecting congestion mitigation data from past experiences on each of the congestion strategies in order to update the FIXIT matrix. Task 4: Completed and delivered the first synthesis entitled "Technical Memorandum on Conflation and Geospatial Data Integration."Task 5: Continued sponsor communication and support via telephone calls and email correspondence. Preparing for site visit with Florida DOT staff in December. Team members traveled to Tallahassee, Florida to perform a site visit and meet with FDOT staff. Developed and distributed meeting notes from this meeting to all sponsors. Task 6: No work performed under this task.Task 7: No work performed under this task. Work was completed in Fiscal Year 2018.Task 8: Assisted CDOT and INRIX in origin-destination dataset acquisition. Reviewed inaugural Colorado Mobility Report for corridors to assess in the select-link and/or resiliency analyses. Prepared slides and content for Colorado Mobility Workshop on Oct 25th in Denver to CDOT staff and staff of CDOT partnering agencies and consultants. Began initial planning for investment attraction and economic analysis. Attended and conducted project meeting with CDOT staff while in Denver. Assessed origin-destination data for the corridors discussed at Oct 25th meeting with CDOT staff to identify select-link analysis and resiliency corridors. Began the investment attraction and economic analysis. Finalized corridors and priority for origin-destination data analyses. Continued assessment of the origin-destination data for the select-link analyses and resiliency corridor analyses. Began the investment attraction and economic analysis. Assisted CDOT team with discussions of future work priorities. |
| **Anticipated work next quarter**: Work will continue on the tasks under the contract for FY 2019.Task 1:.Continue literature review for technical memorandum using origin-destination data for resiliency analysis. Continue examining high-level speed data comparisons for pool fund participating states.Task 2: Continue to review of planning-level reliability methods to incorporate into FIXIT spreadsheet tool and examine the relationship between congestion and reliability benefits.Task 3: Continue work on the FIXIT tool by processing congestion mitigation data from before and after studies.Task 4: Continue 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. Coordinate sponsor visits with three pool fund participating states.Task 6: Begin planning for annual meeting in 2019. Task 7: Work completed under this task.Task 8: Finalize corridor origin-destination data analysis. Continue investment attraction and economic 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.  |