**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: \_January 8, 2016\_\_\_\_\_\_\_\_

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, 2015)□ Quarter 2 (April 1 – June 30, 2015)X□Quarter 3 (July 1 – September 30, 2015)□Quarter 4 (October 1 – December 31, 2015) |
| **Project Title:**Mobility Measurement in Urban Transportation (MMUT) FYs 2015-2016 |
| **Name of Project Manager(s):**Michelle Conkle | **Phone Number:**(512) 486-5132 | **E-Mail**Michelle.Conkle@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 | $2,320,548 | % |

***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** |
|  | $155,807 |  |

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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) Convene a meeting at which the Steering Committee will decide on the annual scope of work to be performed. 2) Maintain existing congestion measurement practices while continuously improving and refining the congestion measurement strategies and methodologies to meet changing needs.3) Collect better information and data for all relevant transportation modes to improve congestion measurement and management. 4) Address congestion monitoring needs related to freight mobility and vehicle emissions. 5) 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 2015. MMUT FY 2016-17 scope topics were ranked and incorporated into the new contract: *Analysis considerations for using probe data; Freight multimodal performance measures; Private-sector origin-destination data; Arterial multi-modal performance monitoring; and MAP-21 system performance and freight NPRM characterization.* Task 1: TTI finalized analysis and delivered a technical memorandum investigating the effect of holidays on monthly average travel times within the National Performance Management Research Data Set (NPMRDS); and also developed and hosted a webinar on lessons learned using private-sector origin-destination data - an area of critical interest as expressed at the annual meeting (August). Task 2: TTI technical memorandum *“Improved Methods for Estimating Route Reliability Estimates”* completed and distributed 9/4/15. Task 3: TTI is finalizing documentation of a process to assist states and MPOs in setting targets related to the FHWA NPRM regarding system performance measures, incorporating new ideas discussed at the annual meeting. Task 4: TTI papers, *“Implementing Freight Fluidity in the State of Maryland”* and *“Estimating Freeway Route Travel Time Reliability from 1 Data on Component Links and Associated Cost Implications”* submitted to TRB and distributed 7/30/15.Task 5: TTI staff met with Caltrans to discuss measuring reliability (when is the best time to measure – peak, fringe, other), performance measures related to MAP-21, new measuring and analysis techniques, and an overview of best practices (August). Distributed meeting minutes 9/1/15.Provided sponsor support through email and phone correspondence. For example, spoke with sponsoring agencies regarding mobility monitoring questions and issues including VDOT (arterial performance) and NYSDOT (interest in a visit).  |
| **Anticipated work next quarter**: Work will continue on the tasks under the new contract for FY 2016.Task 2: Continue analysis of methods to compute arterial reliability. Currently investigating Houston Bluetooth data in comparison to private-company data (INRIX) for performance monitoring. Task 4: Beginning literature review and documentation for syntheses on the topics of "Analysis considerations for using probe data" and "freight multimodal performance measures."   |

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| **Significant Results:**  See Progress This Quarter as most of the work completed was significant. |
| **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 for system performance and freight.  |