**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Date: \_February 17, 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)□Quarter 3 (July 1 – September 30, 2015)X□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:**FY16 Project ID 50116720950 | **Other Project ID (i.e., contract #):**TxDOT PO 7568 *(eff. 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 | $2,414,062.62 | % |

***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** |
|  | $50,067.93 |  |

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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: Project team members began preliminary analysis of outlier data in the NPMRDS dataset to better understand when, and under what conditions, speed data may be outliers, and continued through 12/15. Eventual guidance will include recommendations on how practitioners should handle suspect data for their applications.Task 2: TTI continued analysis of methods to compute arterial reliability; investigation of Houston Bluetooth data in comparison to private-company data (INRIX) for performance monitoring; and investigating arterial reference speed calculations.Draft product from Task 2 (Arterial Performance Monitoring) entitled “Improved Methods for Estimating Route Reliability Estimates”.Task 3: TTI is finalizing documentation of a process to assist states/MPOs in setting targets. New ideas were discussed at the annual meeting, and TTI is incorporating those ideas into – and finalizing – the documentation. Task 4: TTI is progressing on literature review and documentation for syntheses on the topics of "analysis considerations for using probe data" and "freight multimodal performance measures". Completed deliverable: Synthesis from Task 4 (Synthesis Development) entitled “Freight Multimodal Performance Measures.”TTI is conducting work on syntheses "analysis considerations for using probe data" and "arterial multi-modal performance monitoring." Task 5: TTI visit to NYDOT 11/19/15; meeting minutes distributed on 11/23/15 via e-mail.TTI visit to FDOT (12/15) to assist with challenges related to mobility monitoring, data, and performance measure calculation related to MAP-21 performance reporting requirements; meeting minutes distributed on 1/27/16 via e-mail.  |
| **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 3: TTI is finalizing documentation of a process to assist states and MPOs for setting targets. Additional work on this task will begin when the FHWA NPRM is released. Task 4: Continuing literature review and documentation for syntheses on the topics of "Analysis considerations for using probe data" and "freight multimodal performance measures." Task 5: TTI to travel to KY to meet with Kentucky Transportation Cabinet members.  |

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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.  |