**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Lead Agency (FHWA or State DOT): \_\_\_\_Texas Department of Transportation (TxDOT) X

**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 Project #**SPR TPF-5(440)\*Previously SPR TPF-5(198) | **Transportation Pooled Fund Program - Report Period:**□ Quarter 1 (January 1 – March 31)□ Quarter 2 (April 1 – June 30)□ Quarter 3 (July 1 – September 30)x Quarter 4 (October 1 – December 31) |
| **Project Title:**Support for Urban Mobility Analyses (SUMA) |
| **Name of Project Manager(s):**Casey Wells | **Phone Number:**(512) 423-8986 | **E-Mail**Casey.Wells@txdot.gov |
| **Lead Agency Project ID:**22203 | **Other Project ID (i.e., contract #):**SPR TPF 1505 | **Project Start Date:**09/01/21 |
| **Original Project End Date:**8/31/23 | **Current Project End Date:**08/31/23 | **Number of Extensions:**0 |

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** |
| $900,000 | $692,543.72 | 76% |

***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** |
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| $90,638 | $90,638 |  |

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| **Project Description**:**Background:** This study is a continuation of project SPR TPF-5(198), now TPF-5(440), with the same scope, objectives and contractor(Texas A&M Transportation Institute – TTI).**Objectives:** The PFS scope focuses on urban mobility and reliability performance measures, data and issues. New emphasis areas include emerging data sources, freight movement, arterial street mobility issues, reliability performance measures, and addressing the agency challenges for FAST Act requirements. These objectives are satisfied through work in the following 6 Task areas: Task 1: Evaluate Mobility Datasets – investigating new and emerging datasets for mobility and origin-destination analyses.Task 2:Understanding Traffic Reduction Impacts on Key Performance Measures – evaluate the relationships between reductions in traffic and standard mobility and reliability performance measures.Task 3: Develop Performance Assessment and Evaluation Analytical Tools – expand the performance measures included in the Future Improvement Examination Implementation Tool (FIXiT).Task 4: Syntheses Development – developing syntheses on key topic areas related to urban mobility at sponsor direction.Task 5: Support Sponsoring Agencies – provide assistance to sponsors on application of products in their planning,operations and performance measurement activities and provide contract project management functions.Task 6: Meeting Support – plan, develop and implement a peer exchange for sponsors to discuss work task accomplishments, develop the future work plan and peer exchange with each other. |

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| **Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**Information is provided below for each task (as defined in section above):Task 1: Successfully completed FY23 kickoff meetings which included 3 optional dates for attendance from Oct thru Nov.Prepared and completed a survey in November for SUMA participants to gauge interest on a Peer Exchange Program and a Mini-Analysis Toolkit to discuss their analysis needs. Coordinated survey respondents’ participation for January 2023 webinar as part of this peer exchange program. Begin working on the presentation material for the first webinar in January. Task 2: Continued research on performance measurement practices and emerging techniques pertaining to equity in transportation mobility. Began initial work on data analysis for comparison of six urban areas. Continued examination on current state-of-the-practice in equitable mobility performance measurement. Started reviewing Federal and state DOT practice/guidance in transportation equity. Continued review of syntheses and white papers relevant to this task. Continued brainstorming roadway mobility measures from allied areas of transportation.Task 3: Tested FIXiT tool and held internal meetings to discuss testing and tool development. Continued working on adding project types (with links to 1-pagers on the project types) and associated lane equivalents to the tool in a test environment. Updated the Excel tool to ensure consistency with the web tool calculations. Updated user interface of web tool to improve layout for ease of user inputs. Worked on one-page summaries for project types in the tool that did not have one-pagers. Tested additional updates to the tool in Excel prior to updating the web tool. Developed a draft methodology to incorporate level-of-service into FIXiT. Performed extensive testing of the tool and provided feedback to the tool developers. Updated the FIXiT Tool (i.e., added value of time, a fuel consumption option for the user to override the default values; refactored part of the code for future features; fixed some bugs). Task 4: Scheduled and performed two (2) equity feedback and brainstorm sessions with internal TTI equity experts to gain input on the draft equity roadmap for this task. Prepared meeting notes for the two (2) feedback sessions. Revised the working draft of the equity work plan based on input from the TTI subject area experts. Began to create a resource list of research and current practices for roadmap elements. Expanded the equity roadmap outline to include definitions and targets for each equity element. Brainstormed different ways to graphically display a path to equity and determined priorities (tiers) for actions within equity elements. Attended USDOT Justice40 webinar outlining the status of this federal initiative and how it is being implemented. Began planning a second listening session with equity experts to review the draft roadmap.Task 5: Conducted additional sponsor communication and support via telephone calls and email correspondence.Task 6: Conducted SUMA kickoff meeting sessions on Oct 17, Nov 1, and Nov 7, 2022. Sessions were conducted on three (3) dates to ensure attendance by at least one participant from every sponsoring agency. Delivered kickoff meeting session notes and the PPT slide deck to all sponsors on Nov 17, 2022. |
| **Anticipated work next quarter**:Task 1: Complete Webinar #1 to be held in late January 2023.Task 2: Continue evaluating performance metric improvements as it relates to traffic reduction and transportation mobility.Task 3: Continue working on updates to the FIXiT tool based on input identified by users during the development and testing phase of the tool.Task 4: Continue investigating and defining best practice in transportation equity.Task 5: Continue providing communication support via telephone, email, or virtual meetings.Task 6: No substantial meeting support anticipated in the next quarter. |

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| **Significant Results:**See “Progress this Quarter,” and noted deliverables in that section.  |
| **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. |

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| **Potential Implementation:** Work this quarter has numerous positive impacts on sponsoring-agency decision-making, including: * Evaluating (and understanding) mobility datasets, particularly origin-destination data (Task 1)
* Recognizing impacts of the COVID-19 pandemic on travel behavior (Task 2)
* Describing the methodology and updates to the FIXiT Tool that will also serve as a User Guide (Task 3)
* Defining transportation equity and the assessment impact on planning, policy, and processes (Task 4)
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