**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)x Quarter 3 (July 1 – September 30)□ 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 | $441,638 | 49% |

***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** |
| $147,68616% | **$147,686** | 49% |

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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: Completed and delivered the first technical memorandum "Summary of Feedback Gathered on Strengths and Challenges of Mobility Data Platforms." Completed and delivered the final technical memorandum "State of Emerging Mobility Big Data Sources and Applications" along with a summary handout of the platform tools. Conducted August 10 webinar #2 regarding the final tech memo findings and provided the sponsors the slides and a recording of the webinar.Started preparing for the FY23 kickoff meeting which includes 3 optional dates for attendance starting in Oct thru Nov.Task 2: Completed and delivered the final Technical Memorandum entitled, " Comparison of Impact of Traffic Reduction on Performance Measures in Six Urban Areas." Conducted webinar on August 19, 2022, on the results. Provided the slides and recording of the webinar to sponsoring agencies.Started identifying literature and resources for current ideas and practices in implementing equitable performance measurement in transportation mobility. Brainstormed ideas for approaches to define/categorize metrics using a few different classification criteria (stratification, weighting, etc.).Task 3: Completed and delivered the final technical memorandum, "FIXiT 5.0 Enhanced User Guide," which includes a link to the FIXiT web-based tool on page 1. Conducted a webinar on August 25, 2022, on the latest tool and User's Guide, and provided all sponsors the slides and recording of the webinar.Identified updates to FIXiT tool based on items identified during tool development and feedback from users at tool demonstration. Coordinated with tool users during testing of the tool, and began working on updates (i.e. additional project types, metric conversion, analysis of both directions and multiple segments, 15-minute traffic volume input, and automatic calculation of peaking characteristics) to the tool.Task 4: Completed and delivered the final technical memorandum, "Defining Equity Concepts."Reviewed and updated the workplan for the task to focus efforts this year. Created a draft table of contents for the planned transportation equity road map. Reached out to topic experts within TTI relevant to the scope of work for a meeting to review the draft road map. Began examining relevant literature extending the results from the previous year.Task 5: Completed and delivered meeting notes from a sponsor visit with PennDOT staff that was conducted on July 19, 2022. Conducted a site visit on August 9, 2022, with Michigan DOT staff. Developed and delivered meeting notes of the site visit to all sponsoring agencies. Delivered technical memorandum of a summary of all FY2022 deliverables.Conducted additional sponsor communication and support via telephone calls and email correspondence.Task 6: Completed travel reimbursements for the annual meeting held in College Station, Texas in May 2022. |
| **Anticipated work next quarter**:Task 1: Complete the FY 23 Kickoff meeting with all sponsors and discuss the work ahead and the deliverables.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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