**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:**  X Quarter 1 (January 1 – March 31)  □ Quarter 2 (April 1 – June 30)  □ 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):**  Peggy Thurin | **Phone Number:**  (512) 486-5024 | | **E-Mail**  Peggy.Thurin@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 | $184,239 | 20% |

***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** |
| $85,434  20.5% | **$85,434** | 20% |

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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 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: Conducted Webinar #1 on January 27, 2022, to gather data and document user experiences for Tools and Best Practices for Using Passive Origin-Destination Data and begin writing Tech Memo #2 including updating case studies and started researching data vendors. Conducted discussion sessions with MDOT-SHA and FDOT. Begin writing Tech Memo #1 #1 on the evaluation of mobility datasets.  Task 2: Continued gathering COVID-related traffic data and other data in the selected urban study areas, continued evaluation of Google mobility data in the performance areas and begin preparing graphs. Working on combining UMR performance measure data with Google mobility data to analyze the two datasets togethers. Prepared tables that combine mobility performance measures and other data.  Task 3: Continued work on greenhouse gas equations that will be incorporated into FIXiT. Identified common congestion reduction measures to incorporate into the tool and then routed to the user group for feedback. Developed an initial set of congestion reduction factors for mobility improvement treatments. Incorporated MOVES3 greenhouse gas equations into the FIXiT Enhanced tool. Completed the prototype FIXiT Enhanced spreadsheet tool.  Task 4: Began development of interview questions to understand the state-of-the-practice on DOT equity programs and performance measures. Prepared meeting notes for the two sessions of the first webinar hosted in December 2021. PowerPoint slides and commentary from the webinar will be included in the task memo appendix. Finalized and delivered the Webinar Summary deliverable to SUMA members and distributed webinar recordings and PowerPoint presentations. Continued review of online resources to understand current equity practices among public agencies in the US. Shared the user participation survey with all sponsors in early Feb 2022 to get responses for participation in the feedback process for equity practices. Started reaching out to respondents for possible online meeting schedule. Continued preparing the draft list of survey questions to be used to guide the feedback process in March-April 2022. Coordinated meeting with contacts gathered at several state DOTs and other transportation equity practitioners. Conducted six (6) interviews/feedback sessions with participating agencies. Prepared meeting notes to be incorporated into technical memorandum. Summarized findings for incorporation into the final report.  Task 5: Sponsor communication and support via telephone calls and email correspondence.  Task 6: Developed agenda for the May 2022 annual meeting in College Station, Texas, including meeting logistics.  . |
| **Anticipated work next quarter**:  Task 1: Continue writing Tech Memo #2 on the tools and best practices for using passive origin-destination data and Tech Memo #1 on the evaluation of mobility datasets.  Task 2: Continue working in collecting and evaluating COVID data and the impacts on mobility performance measures in  the selected study areas.  Task 3: Continued work on greenhouse gas equations that will be incorporated into FIXiT.  Task 4: Continue synthesizing input, resources and experiences related to transportation equity.  Task 5: Continue providing communication support via telephone, email, or virtual meetings.  Task 6: Conduct the annual meeting in May 2022. |

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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) |