TRANSPORTATION POOLED FUND PROGRAM
QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): FHWA

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.

Transportation Pooled Fund Program Project # *(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)* TPF 5(361)	**Transportation Pooled Fund Program - Report Period:** ☐ 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: SHRP2 Naturalistic Driving Study Pooled Fund: Advancing Implementable Solutions		
Name of Project Manager(s): Charles Fay	**Phone Number:** 202-493-3336	**E-Mail** charles.fay@dot.gov
Lead Agency Project ID: TPF 5(361)	**Other Project ID (i.e., contract #):**	**Project Start Date:** 3/17/2017
Original Project End Date: 3/17/2022	**Current Project End Date:** 2/2023	**Number of Extensions:** 2

Project schedule status:

☐ On schedule ☑ On revised schedule ☐ Ahead of schedule ☐ Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Percentage of Work Completed to Date
$2,310,000.00	$1,800,500	78%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date

Project Description:

This pooled fund study will support research using data from the second Strategic Highway Research Program (SHRP 2) Naturalistic Driving Study (NDS). The goal is to advance the development of implementable solutions for State and local transportation agencies with an emphasis on the broad areas of Safety, Operations, and Planning.

The Technical Advisory Committee (TAC) developed a list of 30+ research topics and prioritized these topics based on input from the AASHTO Research Advisory Committee. Using the prioritized list of research topics -- a request for proposals was issued. The response included 25 proposed projects, totaling over $8 million. With the available funds, the TAC picked 6 out of the 25 to fund for research.

The six projects are:

"Investigating How Multimodal Environments Affect Multitasking Driving Behaviors"

This study will use the SHRP 2 NDS data to examine multi-tasking behaviors when drivers are in environments that include large numbers of pedestrians and cyclists. Multi-tasking behavior refers to any secondary activity not related to the primary driving task, such as engagement with mobile devices, eating, drinking and talking to passengers. More specifically, this study will focus and provide guidance on: 1) the likelihood of drivers engaging in (or disengaging from) secondary task activities given the presence of pedestrians and cyclists; and 2) the effect of different types of crosswalks and bike lanes (including pavement markings and signage) on secondary task activities.

"Incorporating the Impacts of Driver Distraction into Highway Design and Traffic Engineering"

The objective of this research is to leverage the SHRP 2 NDS data to examine and quantify the impacts of driver

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):

Due to COVID and travel restrictions limiting access to a secure data enclave, as well as to accommodate report review - all six projects were issued a no cost time extension from 9/28/2022 to 2/27/2023.

Each team continued providing their monthly progress reports, as well as conducting their monthly progress meetings with FHWA staff.

One project, Investigating How Multimodal Environments Affect Multitasking Driving Behaviors, spent several weeks onsite at VTTI in Blacksburg, VA coding driver behavior using face video that is only accessible in a secure data enclave. The team is now working on analyses.

One project, Freeway Guide Sign Performance at Complex Interchanges: Reducing Information Overload, is slightly ahead of schedule and is finishing up their draft final report(est delivery date 7/15/22).

The remaining five projects are in various stages of analyses, and working on final deliverables.

Anticipated work next quarter:

Each team will continue providing their monthly progress reports, as well as conducting their monthly progress meetings with FHWA staff.

The research teams will be in various stages of completing their respective projects - working on analyses, and working on their draft final report.

One project, 'Freeway Guide Sign Performance at Complex Interchanges: Reducing Information Overload' will be providing their draft final report July 15th. The TAC review meeting for this project is scheduled for 8/22/2022.

The remaining five projects will be providing their draft final reports 9/2022-11/2022. Each will have a TAC review meeting.

Final deliverables will be focused on providing practitioners with actionable results e.g., guidance and tools specific to the research area.

Part A feasibility reports for the six projects can be provided upon request -- please contact Charles Fay, charles.fay@dot.gov. 202-493-3336

Significant Results:

TBD: Research began 12/2019- 3/2020 and final results are due February 27, 2023(extended from 9/28/2022).

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).

No issues to report

Potential Implementation:

TBD: Research began12/2019- 3/2020 and final results are due February 27, 2023 (extended from 9/28/2022).

Upon the conclusion of activities the researchers will prepare and deliver final research reports.