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-05(317)	**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: The Evaluation of Low Cost Safety Improvements Pooled Fund Study (ELCSI-PFS)		
Name of Project Manager(s): Roya Amjadi	**Phone Number:** 202-493-3383	**E-Mail** roya.amjadi@dot.gov
Lead Agency Project ID: TPF-05(317)	**Other Project ID (i.e., contract #):** N/A	**Project Start Date:** 05/2005
Original Project End Date: 05/2010	**Current Project End Date:** Open Ended	**Number of Extensions:** 1

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
$7,420,000	$5,510,000	850%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$70,000	N/A	N/A

Project Description:

FHWA has initiated the Low Cost Safety Improvements Pooled Funds Study to encompass safety-effectiveness evaluations of priority strategies from the NCHRP Report 500. The goal of the proposed research is to develop reliable estimates of the safety effectiveness of safety improvements identified as strategies in the NCHRP Report 500 Guidebooks through scientifically rigorous “Before”-”After” (B/A) evaluations of sites within the U.S. where these strategies are being implemented. The data for the study will be gathered from those states that implement the strategies throughout the US. The methodology utilized will typically be an Empirical Bayes evaluation or other appropriate method, using B/A data to help determine their effectiveness in reducing the number and severity of crashes. The data will be collected, and evaluation studies performed, as the strategies are implemented over the course of several years.

This pooled fund study has contributed over 800 CMFs to the CMF Clearinghouse, and this effort is on-going.

The Phase I study (retrospective) was competed for:
1.Increased retroreflectivity of STOP signs.
2.Flashing beacons at STOP-controlled intersections.
3.STOP AHEAD pavement markings.
4.Installing center two-way left-turn lanes on two-lane roads.

The Phase II study (retrospective) was completed for:
1.Improved curve delineation.
2.Offset improvements for left-turn lanes.
3.Lane and shoulder width combinations on rural, two-lane, undivided roads.
4.Advance street name signs.

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

ELCSI-PFS, PHASE XIII
Planning, and feasibility analysis is in progress for evaluations of:
1. Turning Lane Treatments - meeting was conducted with FHWA experts on 10/08, and scope of work was identified.
2. Rectangular Rapid Flashing Bacons - meeting will be conducted with: FHWA experts (10/05); and national experts (10/01), and scope of work will be identified.
3. Sinusoidal Rumble Strips - meeting was conducted with: FHWA experts and scope of work was identified (09/21).
4. Reflective Object Markers - meeting will be conducted with FHWA experts and scope of work will be identified (10/05).
5. CMFs for Systemic Safety Applications - Meeting will be conducted with FHWA experts and scope of work will be identified (11/20).

ELCSI-PFS, PHASE XII
Completion Date is March 31, 2022. The Phase XII study is active for:
1. Safety Evaluation of Innovative Pedestrian Countermeasures at Intersections
2. Safety Evaluation of Innovative Bicycle Countermeasures at Intersections
- Negotiated with and hired a drone vendor regarding the recording of operations at the two sites (3rd QTR, 2020).
- Contractor provided an Excel file for the list of identified existing locations with innovative intersection treatments, characteristics of those sites, and recommendations for which existing sites to consider for study (3rd QTR, 2020).

The ELCSI-PFS, Phase XII is mostly funded by the FHWA,Program fund. TTI is the contractor for the above evaluations.

ELCSI-PFS, PHASE XI

Anticipated work next quarter:

o Start developing Statement of Work, Independent Cost Estimates, and PR for the Phase XIII.
o Manage ELCSI-PFS' on-going and Phase XI studies for:
1. Safety Evaluation of Mini-Roundabouts
2. Safety Evaluation of Bike Lane Configurations at Intersections
3. Safety Evaluation of Wrong Way Driving (WWD) Low Cost Safety Improvements
4. Conducting a one-day workshop for effective WWD countermeasures (in-person, and for 50 State DOTs)

o Manage ELCSI-PFS, Phase XII studies for:
1. Safety Evaluation of Innovative Pedestrian Countermeasures at Intersections
2. Safety Evaluation of Innovative Bicycle Countermeasures at Intersections

o Continue work on 7 new publications.
o Attend Highway Safety Information System (HSIS) national meeting in November 2020, and present ELCSI-PFS Phase X products.
o Attend ELCSI-PFS related meetings.
o Keep up communication with TAC members.
o Other related efforts.

Significant Results:

o Data collection for Phase XI is completed.
o The ELCSI-PFS's Development of CMFs for Gurdrails, Light Poles, and Side Slopes was presented in a ASA, 2020 JSM Topic Contributed session (08/2020).
o Completed publication of five studies, and have seven new publications in progress.
o ELCSI-PFS, PHASE XIII's planning, and feasibility analysis is mostly completed.
o The FHWA, PSCi slected four ELCSI-PFS studies.
o The ELCSI-PFS's Development of CMFs for Guardrails, Light Poles, and Side Slopes was presented in a ASA, 2020 JSM Topic Contributed session (08/2020).
o The ELCSI-PFS's Phase X studies (4) were presented in Traffic Record Forum annual meeting (08/2020).

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 encountered.

Potential Implementation:

N/A