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
$7,300,000	$5,330,000	760%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$200,000	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 700 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 XII
Planning for the Evaluations of Innovative Intersection Designs for Pedestrian and Bicyclists. Drafted the SOW and Cost Estimate in cooperation with Dr. Wei Zhang (FHWA, Safety R&D). FHWA is mostly funding this study.

ELCSI-PFS, PHASE XI
This Phase studies have started, and received deliverables for: draft work plan; and literature review 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)

The ELCSI-PFS, Phase XI is mostly funded by: the FHWA, DCMF program, and Intersection Roadmap.

ANNUAL TAC MEETINGS
The 2019 ELCSI-PFS annual TAC meetings was successfully conducted on August 29 and 30.
- Received deliverables for meeting notes, and technical TAC feedbacks.

ELCSI-PFS, PHASE IX
Completed the Development of Crash Modification Factors for the High Friction Surface Treatments. Received, reviewed, and accepted final technical report and two supplemental documents.

NEW PEDESTRIAN and BICYCLE CRASH STUDY

Anticipated work next quarter:

o Receive final deliverables for the ELCSI-PFS, Phase X.
o Award ELCSI-PFS, Phase XII.
o Manage ELCSI-PFS' on-going and new 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)
5. Adaptive Signal Control Technologies
6. Bicycle Lanes, Added by Reducing Lane and/or Shoulder Width
7. Variable speed limits (VSL)
8. Treatments to minimize the influence of Light Poles
9. Treatments to minimize the influence of Guardrails
10. Side slope improvements Evaluation

o Continue work on new publications.
o Attend meetings.
o Keep up communication with TAC members.
o Other related efforts.

Significant Results:

o Completed the HFST study, and received deliverables.
o The ELCSI-PFS, Phase XI started for three new studies.
o Conducted the 2019 TAC meetings task, and started planing for the 2020 meeting.

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).

Issues with: publication copy rights, and contractor research team unavailability for assisting with publication editorials due to contract vehicle ending in August of 2019.

Potential Implementation:

N/A