



Caltrans Division of Research,
Innovation and System Information

Research

Notes

Transportation
Safety & Mobility

FEBRUARY 2023

Project Title:
Evaluation of Low Cost Safety
Improvements TPF-5(317)

Task Number: 2913

Start Date: March 1, 2005

Completion Date: Open Ended

Task Manager:
Nathan Loeb
Transportation Engineer
nathan.loeb@dot.ca.gov

Research study to encompass safety-effectiveness evaluations of priority strategies from the NCHRP Report 500 Guidebooks

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.

WHAT IS THE NEED?

In order to achieve a national goal shared by the US Department of Transportation (USDOT), American Association of State Highway Transportation Officials (AASHTO), and Governor's Highway Safety Association (GHSA) to reduce the fatality rate and save lives annually, the safety improvement strategies will need to be appropriately implemented.

WHAT ARE WE DOING?

The scope of the Evaluations of Low Cost Safety Improvements Pooled Fund Study (ELCSI-PFS) is to conduct a research project of the priority strategies in the NCHRP Report 500 Guidebooks. Originally, a target of 20 strategies totaling \$4.38 million over 5 years was planned for ELCSI-PFS studies in four phases. Currently, this study has outperformed its original goals, and has added many extra goals. To provide much needed reliable measures for effectiveness of various low-cost safety improvements, this study's performance period has been extended beyond 2017.



DRISI provides solutions and
knowledge that improves
California's transportation system

WHAT IS OUR GOAL?

The goal of this research is to develop reliable estimates of the effectiveness of the safety improvements that are identified as strategies in the National Cooperative Highway Research Program (NCHRP) Report 500 Guides. These estimates are determined by conducting scientifically rigorous before-and-after evaluations at sites in the United States where these strategies are being implemented.

WHAT IS THE BENEFIT?

The Department can potentially benefit from the outcome of this research by implementing the resulting recommendations and potential solutions from the transportation pooled fund (TPF) study, TPF-5(317).

The public may benefit from the implementation of the results of this research which have the potential to improve the effectiveness in reducing the number and severity of crashes.

WHAT IS THE PROGRESS TO DATE?

October 1, 2022 - December 31, 2022

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

Significant Results for this quarter:

Lead for this TPF retired at the end of September. All reporting has been postponed during transition to new Project Manager.