

DRISI

CALTRANS DIVISION OF RESEARCH,
INNOVATION AND SYSTEM INFORMATION

TRANSFORMING IDEAS INTO SOLUTIONS

Research

Notes

Traffic Operations

NOVEMBER 2023

Project Title: High Occupancy
Vehicle (HOV) Pooled Fund Study
TPF-5(029)-Now TPF-5(322)

Task Number: 0373

Start Date: September 1, 2002

Completion Date: June 30, 2023

Task Manager:
Jose Camacho Jr.
Transportation Engineer (Electrical)
jose.camacho.jr@dot.ca.gov

TPF-5(322) - High Occupancy Vehicle (HOV) / Managed Use Lane (MUL)

Research study to identify HOV issues common to all participants of this pooled fund study and identify recommendations and potential solutions.

WHAT IS THE NEED?

Traffic congestion is a big problem which degrades the effectiveness of High Occupancy Vehicle (HOV) lanes/ Managed Use Lane (MUL). Research is needed to identify key issues and challenges that are common among public agencies that are responsible for managing and operating HOV facilities and to have researchers identify recommendations and potential solutions to these issues to improve the effectiveness of the HOV lanes.

WHAT ARE WE DOING?

This pooled fund study serves as a forum so that all participants interact, share information and successful practices with a broader audience to advance and improve upon the current state-of-the-practice related to the management, operation, and performance of HOV/MUL facilities. All participants of this pooled fund research, including Caltrans, have been identifying key issues that need to be addressed and analyzed to research potential solutions.

WHAT IS OUR GOAL?

The goal is to improve the performance/effectiveness of the HOV/ MUL lanes by participating in this research study to identify issues common among HOV systems managers, operators, and service providers, suggest approaches to addressing identified issues, select and initiate projects intended to address identified issues, and identify recommendations and potential solutions.



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

WHAT IS THE BENEFIT?

The Department can potentially benefit from the outcome of this research by implementing the resulting recommendations and potential solution from this pooled fund study. The public may benefit from the implementation of the results of this research which have the potential to improve performance/effectiveness of the HOV/MUL lanes.

WHAT IS THE PROGRESS TO DATE?

- Quarterly Meeting
 - The quarterly meeting took place virtually on September 25th.
- Ongoing Research
 - The Managed Lane Compliance research project work continued. Leidos delivered a draft synthesis report.
 - Two new projects were let for contract in this quarter. This includes the Attractiveness and Consumer Choice project and the Use of Data to Inform Managed Lane Operational Decisions statement of work.
- Significant Results:

There have been thirty-one (31) research efforts funded by this group that have helped advance the use of HOV and MUL projects throughout this country.

There are two additional projects preparing to be let for contract. Additional projects will be initiated once project funds are replenished.

- Potential Implementation:

The pooled fund identified a prioritized list of research projects and has begun two new research projects. Additional new projects were selected at the 2023 Annual Meeting. The first one Managed Lane Influence on Driver Behavior will be advanced in FY24 once the budget is sufficient.

The next Annual meeting is being planned for the Spring of 2024.