

# DRISI

CALTRANS DIVISION OF RESEARCH,  
INNOVATION AND SYSTEM INFORMATION

TRANSFORMING IDEAS INTO SOLUTIONS

# Research

# Notes

Traffic Operations

MAY 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 in order 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 in order 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 in order 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?

- Transfer of Funds
  - Transferring funds that were returned to the States from the old project number onto the new project number continued into this quarters
- Ongoing Research
  - The Managed Lane Compliance research project work continued. Leidos delivered a draft synthesis report.
  - Two new statements of work are under development and will be ready in the near future. This includes the Attractiveness and Consumer Choice statement of work and the Use of Data to Inform Managed Lane Operational Decisions statement of work.
- Planning for Quarterly Meeting
  - The annual meeting will be held in-person on April 25th and 26th at the United States Department of Transportation Volpe Center in Cambridge, Massachusetts.
  - Let contracts for the Use of Data to Inform Managed Lanes Operational Decisions and Facilities Attractiveness and Consumer Choice SOWs.
  - Contractors from the Managed Lane Facilities project will be selecting five locations for case studies to see how travel demand management can supplement managed lanes

### Significant Results:

There have been twenty-nine (29) 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.