

INTRODUCTION

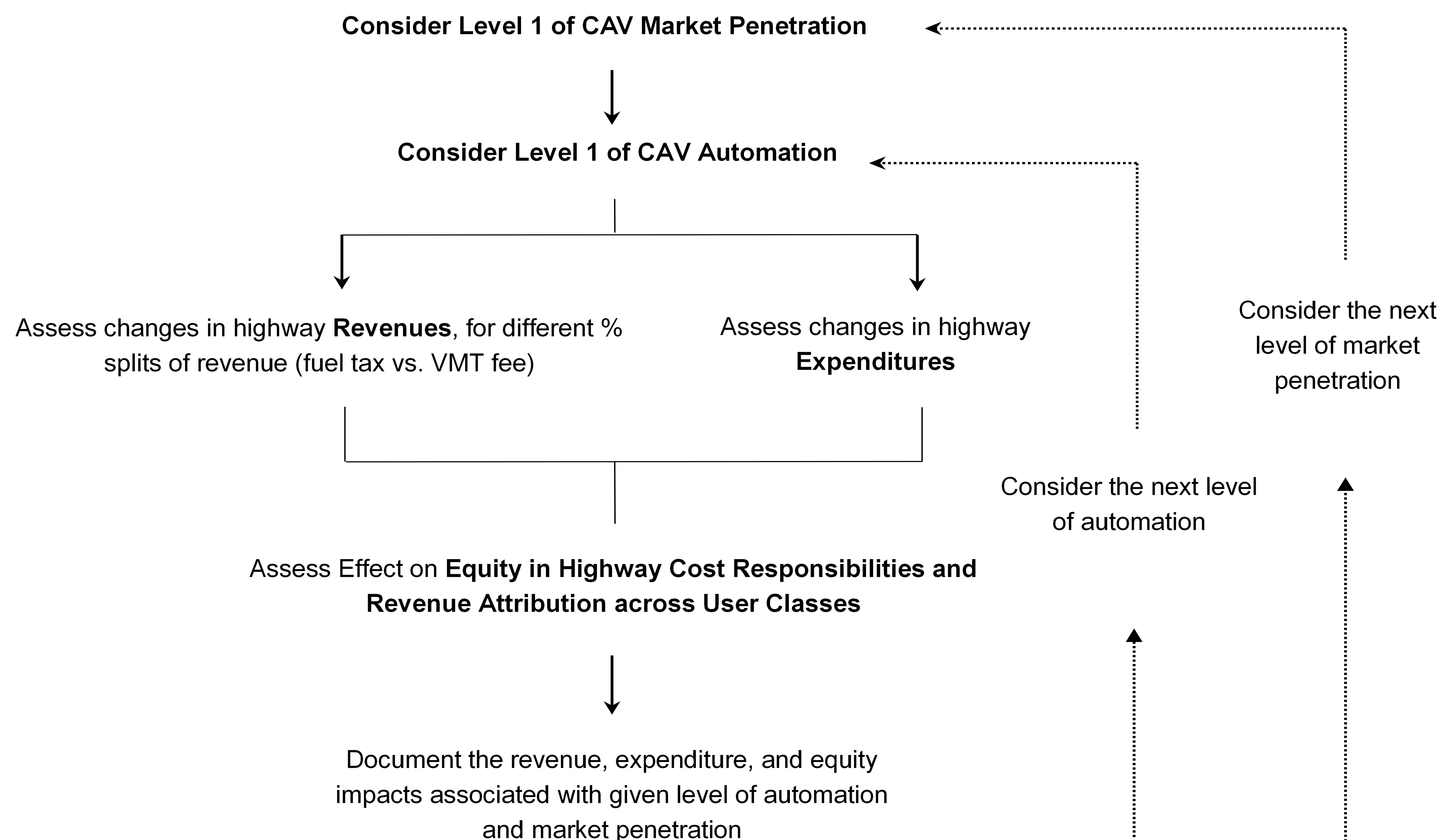
In preparing for CAVs, highway agencies will be tasked with identifying and providing appropriate infrastructure elements that will enable or facilitate CAV operations on highways.

- **Expenditure:** the provision of new infrastructure and modification of existing infrastructure is expected to incur a significant amount of capital investment.
- **Revenue:** with increasing CAV operations, the revenues typically earned from vehicle registrations and fuel tax are expected to change due to changing demand for vehicle ownership and amount of travel, respectively.

RESEARCH MECHANISMS

- **Literature Reviews:**
obtain, analyze, describe and critique domestic and international information on CAVs
- **Highway Agency and User Surveys:**
managers and engineers currently working in the various agency departments of planning, design, operations, monitoring, and maintenance
- **Computer Simulation**
- **Theoretical Analysis**
- **Empirical Analysis**


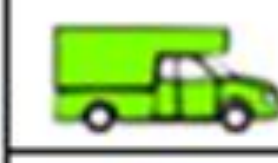

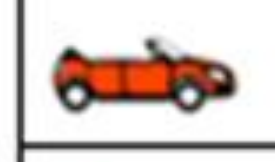


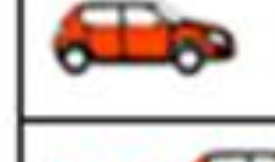














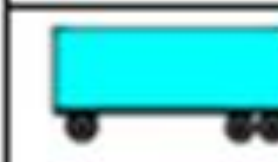

TECHNICAL APPROACH



ONGOING RESEARCH

Estimation of:

- Changes in highway VMT due to CAVs
- Changes in highway expenditures in an era of CAV operations
- Change in highway revenues that can be expected to arise from CAV operations
- Changes in highway cost allocation and revenue attribution among the highway users in the era of CAVs, at various stages of CAV adoption

Class 1 Motorcycle		Class 5 Two axle, six tire, single unit		Class 9 5-axle tractor semitrailer	
Class 2 Passenger cars		Class 6 Three axle, single unit		Class 10 Six or more axle, single trailer	
					
					
Class 3 Four tire, single unit		Class 7 Four or more axle, single unit		Class 11 5 or less axle, multi trailer	
					
Class 4 Buses		Class 8 Four or less axle, single trailer		Class 12 Six axle, multi-trailer	
					
					
				Class 13 Seven or more axle, multi-trailer	