

Summer Research Program 2011/2012

Project Title

Multiclass (public transport, freight, and HOV vehicle) priority design

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Objective

What will the project accomplish?

The project will use transportation micro-simulation to study the impact of multiclass priority lane on the operation of arterial roads.

Description

This project will look into the design and operation aspects of multiclass priority lanes in the transportation network. Multiclass priority lanes are used for public transport, freight vehicle and high occupancy vehicles (HOV). These lanes can significantly improve the operation efficiency of arterial roads.

For this study existing micro simulations will be used and variety of scenarios will be tested. The study will look at the immediate traffic operation impacts such as travel time saving, travel time variability change of these lanes.

Good understanding of traffic and transport subjects is required and essential for this project. Familiarity with simulation packages such as PARAMICS, AIMSUN, or VISSIM is desirable but not necessary.