

# SAFER ROADS FOR EVERYONE

Leveraging Protected Bike Lanes



## Enhancing Safety and Comfort for Bicyclists

### PROBLEM

Most fatal and serious injury bicyclist crashes occur at **non-intersection locations**



**NEARLY 1/3**

of these crashes occur when **motorists overtake bicyclists**

### SOLUTION



### PROTECTED BIKE LANES

separate bicyclists from vehicle traffic using **vertical elements like posts, curbs, or vegetation**, significantly reducing the risk of severe crashes.



### RESULT

Bicycle lane additions can reduce crashes by up to:

53%

when converting traditional or flush buffered bicycle lanes to a separated bicycle lane with flexible delineator posts

49%

or total crashes on urban 4-lane undivided collectors and local roads.

30%

for total crashes on urban 2-lane undivided collectors and local roads

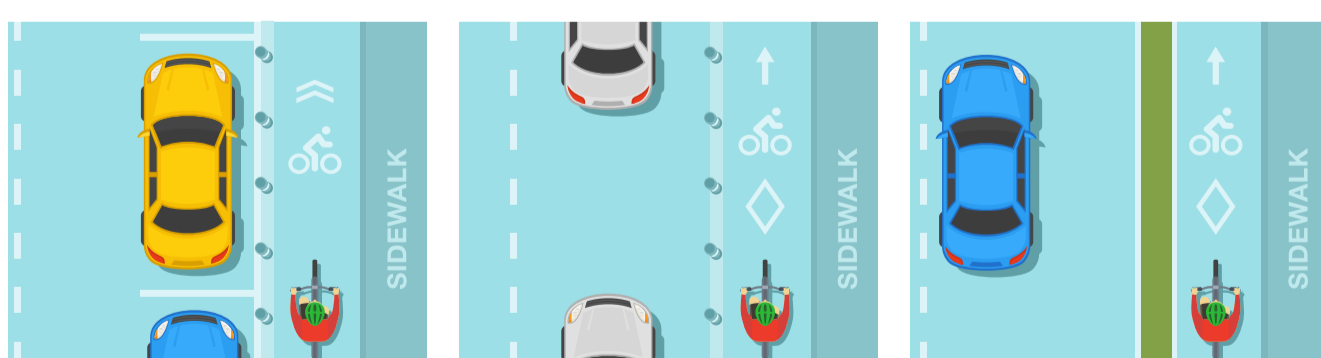
### APPLICATIONS AND DESIGN CONSIDERATIONS



Designing for All Ages and Abilities



Bicycle lane design should vary based on roadway characteristics, user needs, and land-use context.



### SUPPORTING DATA



Studies ([study 1](#), [study 2](#)) show that roadways with added bike lanes **did not experience an increase in crashes or congestion.**



Bicycle lanes can **help manage roadway capacity** and increase ridership.



In rural areas, proper installation of **rumble strips is crucial to not hinder bicyclists.**



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