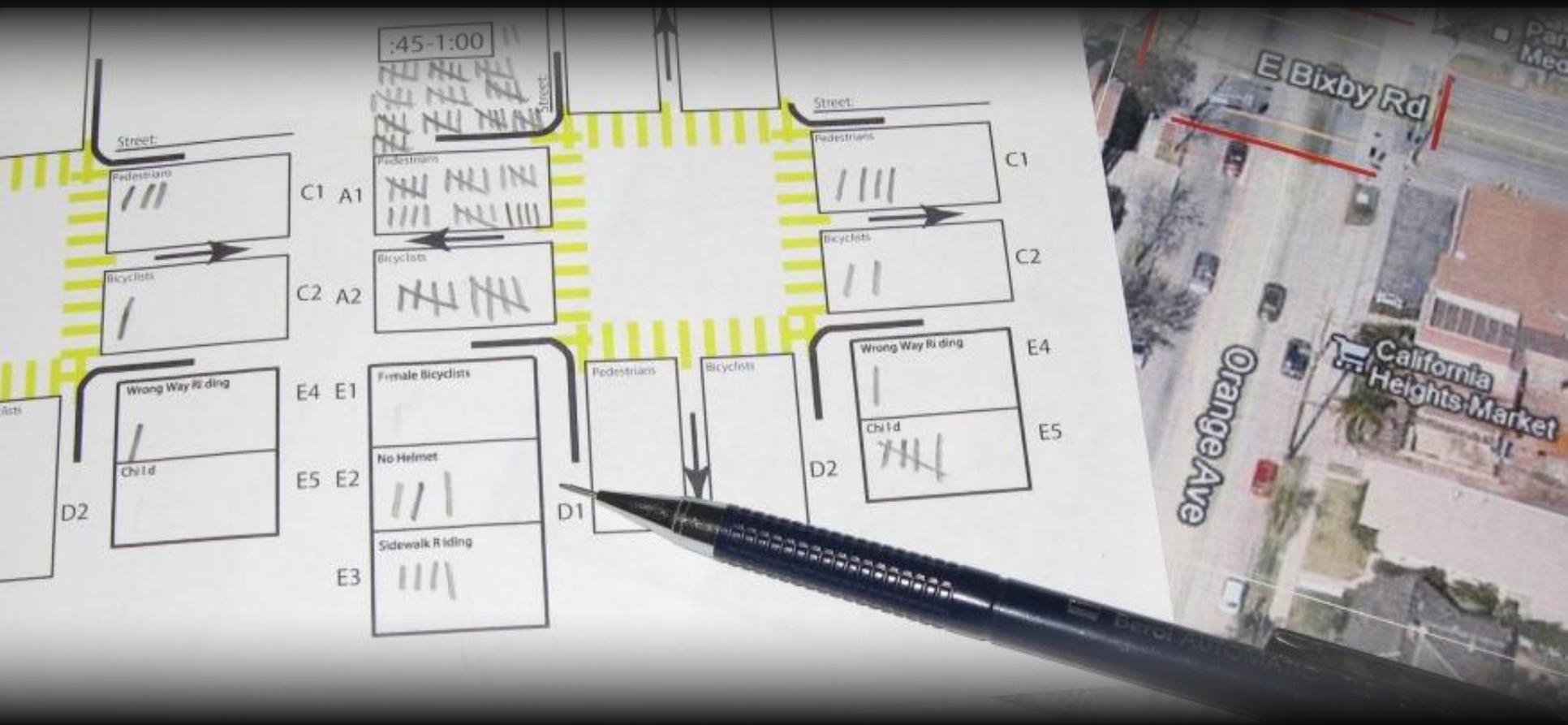




Engineering an ATP Grant Application



Paul Van Dyk
City of Long Beach
Public Works – Traffic Engineering Division



Engineer a Better Application



A Solution is Available!



Engineer a Better Application



A Problem Exists!



Engineer a Better Application



A Solution is Available...



...A Problem Exists!



Engineer a Better Application



A Problem Exists...



...A Solution is Available!



Engineer a Better Application



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INCREASE CONNECTIVITY/MOBILITY
Increase options for Biking, Walking to school, transit, community centers, and employment. Bonus for students.

25

INCREASE SAFETY
Reduce # of pedestrian and cyclist fatalities/injuries.

15

INCREASE COMMUNICATION
Public Participation. Community Meetings. City plan.

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IMPROVE EFFICIENCY (B/C Ratio)

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IMPROVE PUBLIC HEALTH

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IMPROVE DISADVANTAGED COMMUNITIES



Increase Connectivity/Mobility

The Long Beach Bike Count



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Long Beach
Public Works



Cal State
Long Beach



Increase Connectivity/Mobility

The Long Beach Bike Count



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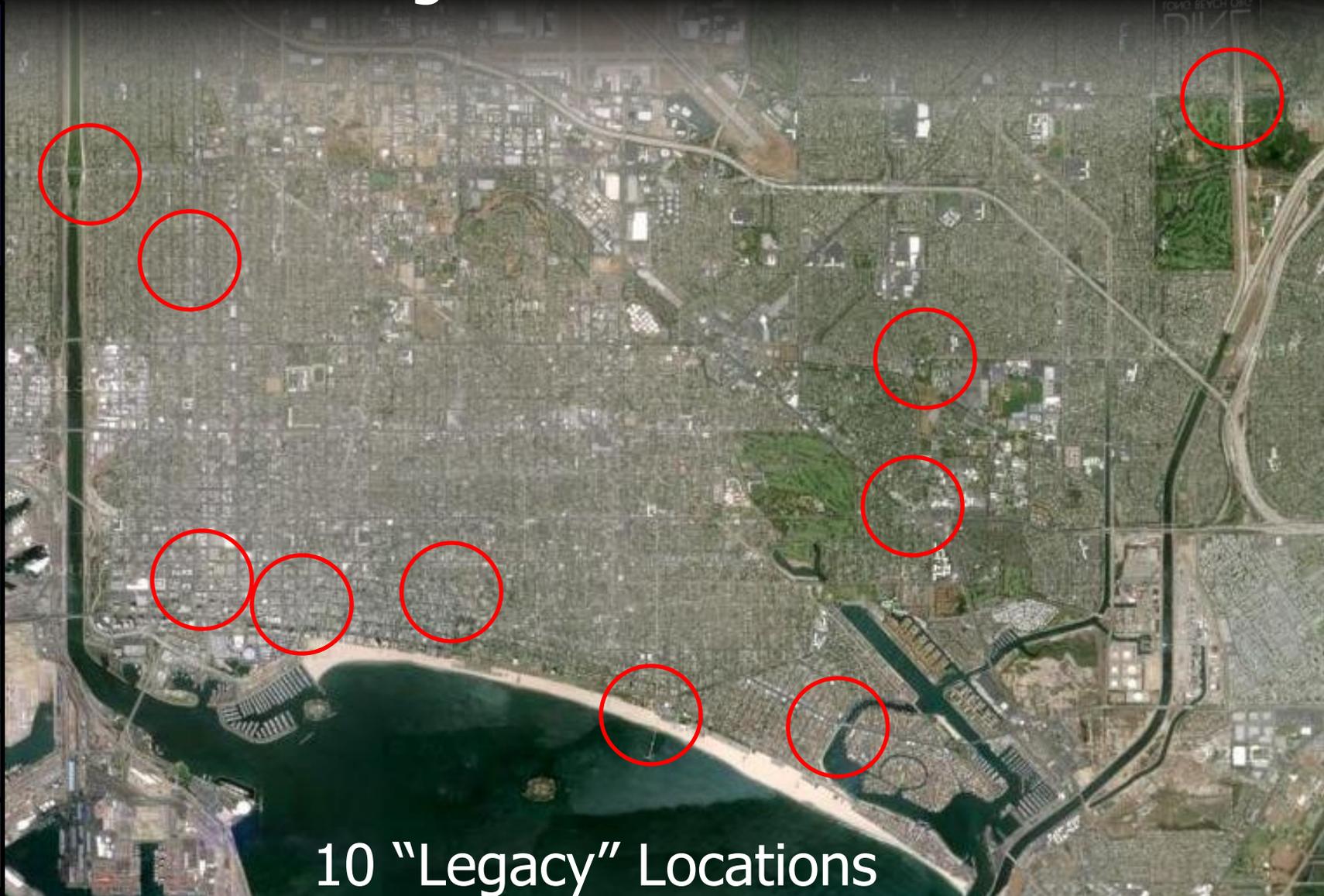
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10 "Legacy" Locations



Increase Connectivity/Mobility



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VISTA BIKE BOULEVARD:
Bikes up 200%
Peds up 100%
Vehicle Collisions down 50%
Traffic Speeds from 30+ to <20mph



Increase Connectivity/Mobility



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DOWNTOWN CYCLE TRACK:
Bikes up 33%
Peds up 20%
Bicycle Collisions down 80%
Vehicle Collisions down 50%
Traffic Speeds from 30+ to 25mph



WRONG WAY





Increase Connectivity/Mobility



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BELMONT SHORE SHARROW LANES:
Bikes up 100%
Sidewalk Riding down 50%
Bicycle Injuries down...dooring



Increase Connectivity/Mobility Close Gaps



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Innovate

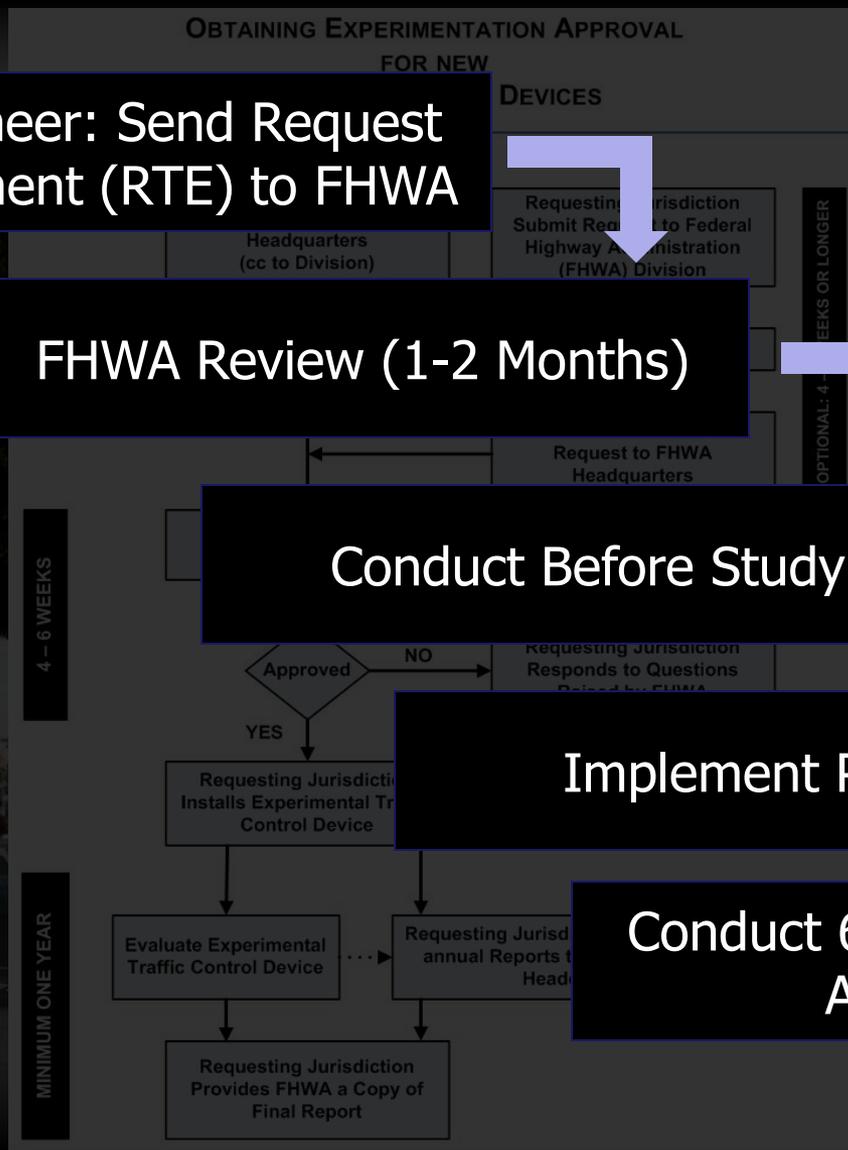
City Engineer: Send Request to Experiment (RTE) to FHWA

FHWA Review (1-2 Months)

Conduct Before Study

Implement Project

Conduct 6 Month, 12 Month After Study



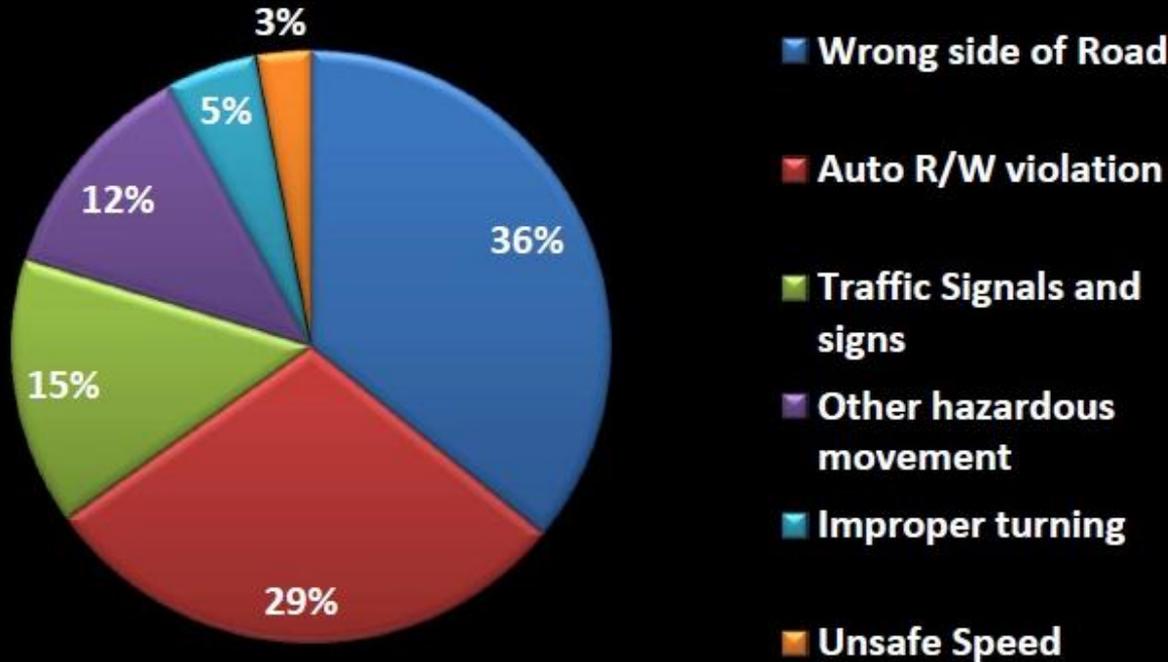


Increase Safety Collision Analysis



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Bike Rider Caused Crashes



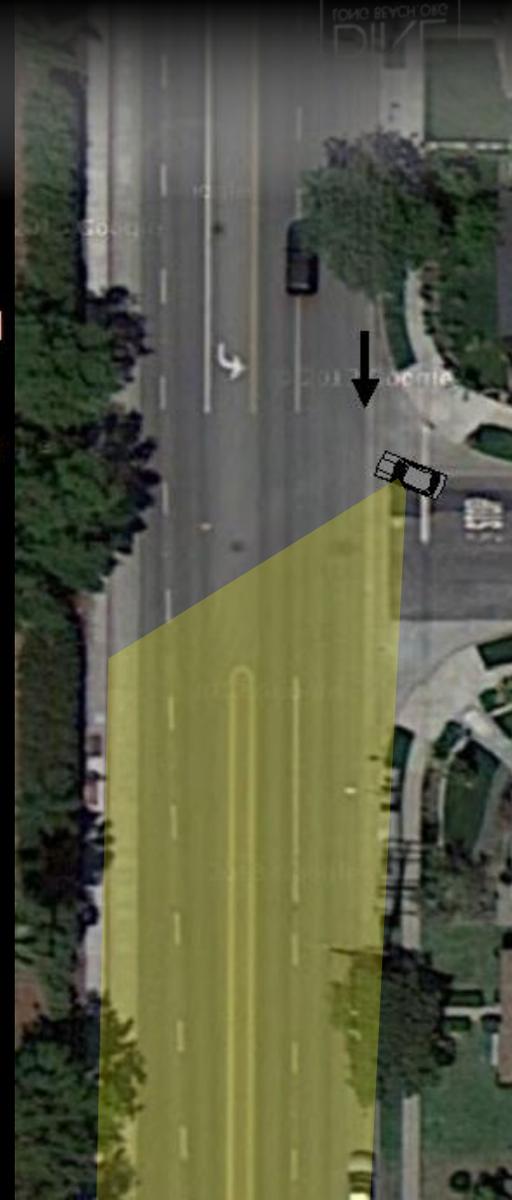
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Increase Safety



Cycling Volumes +50% Wrong Way Collisions -25%

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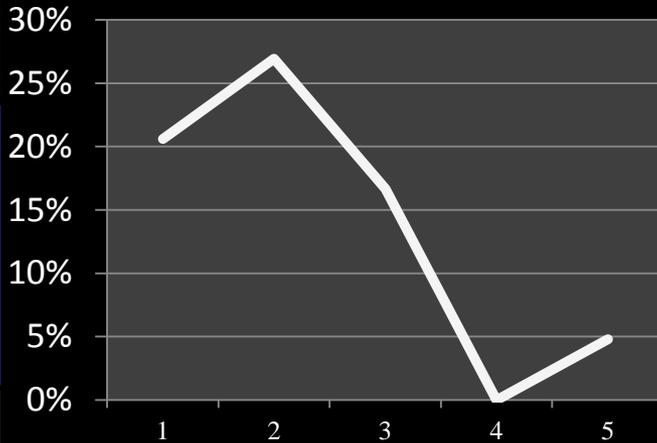
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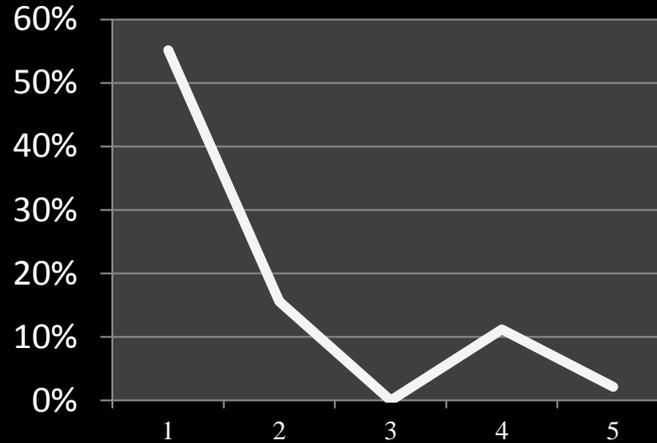
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Broadway & Pine



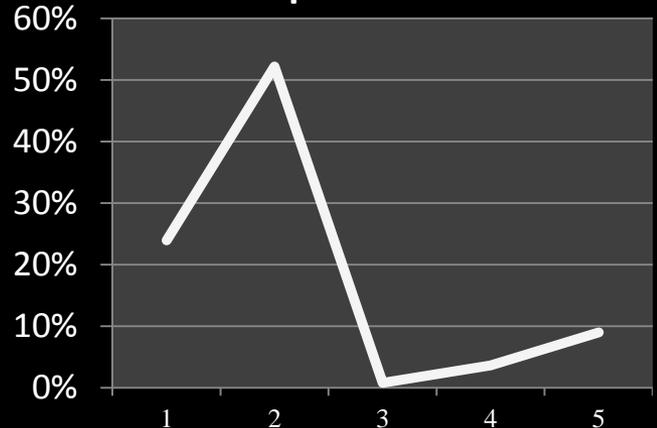
Atherton & Palo Verde



1st & Linden



4th & Junipero





Increase Safety



Annual Increase in Cycling Volumes = 8%
Annual Increase in Cycling Collisions = 0.25%

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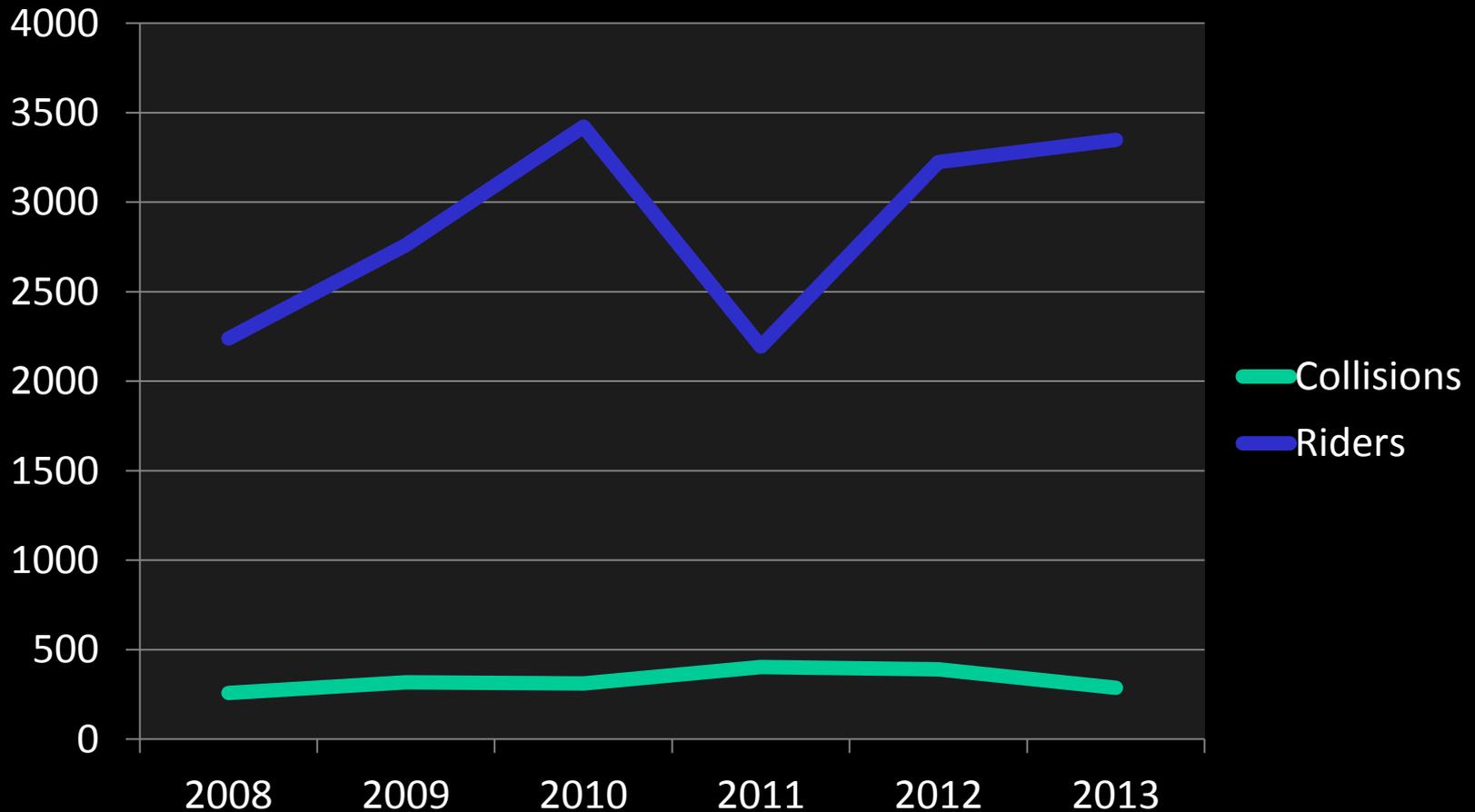
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Increase Communication



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- Community Meetings
- Councilmember Involvement
- Publicity Campaigns
- Staff Availability





Improve Efficiency



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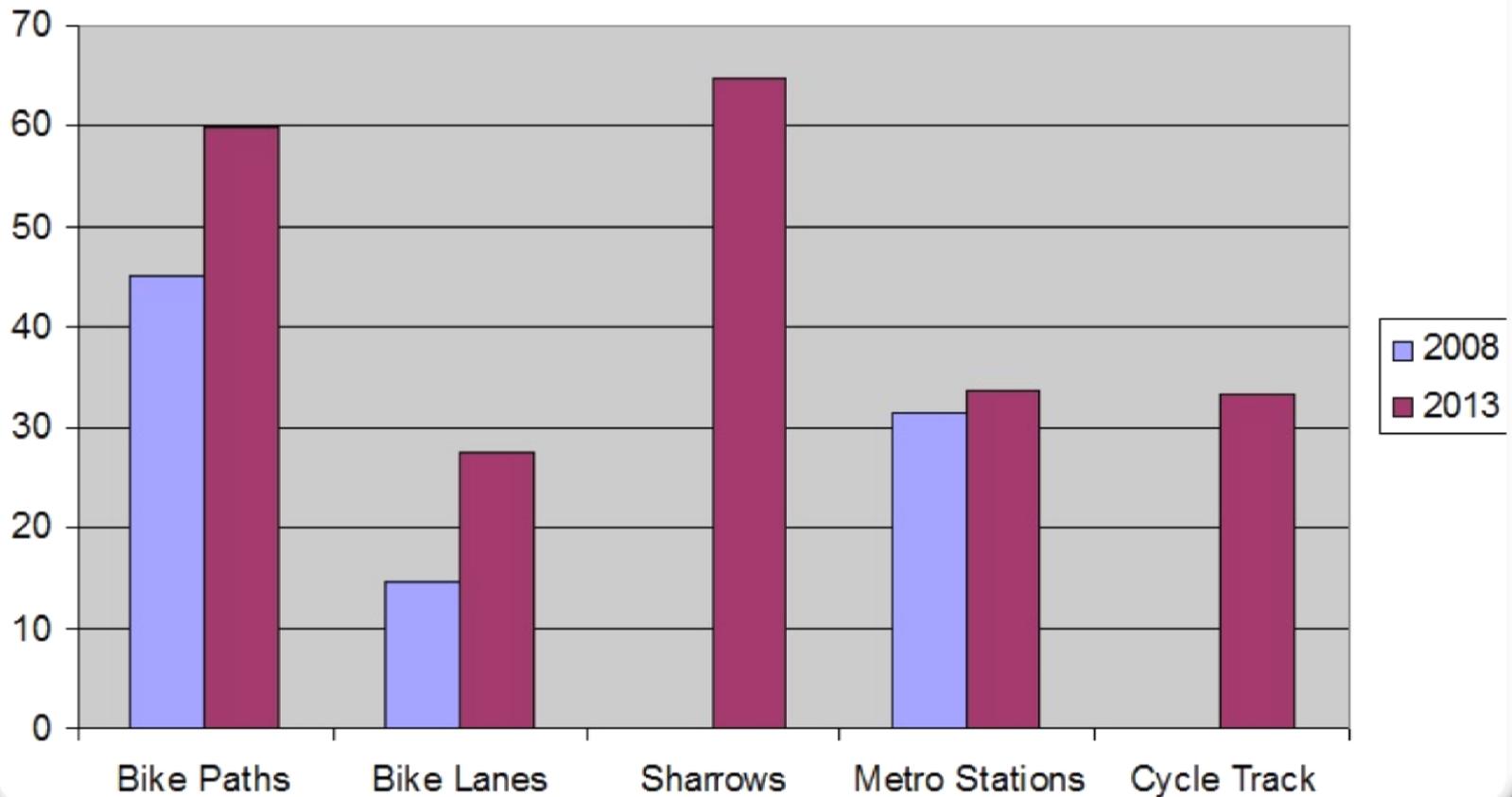
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Riders Per Hour - By Type of Bike Facility



Bike Paths

Bike Lanes

Sharrows

Metro Stations

Cycle Track



Improve Efficiency Sharrows



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Engineer a Better Application



Find the Problem, *then* Solve it!