

Central Avenue Recommended Safety Improvements

Transportation Commission | November 18, 2015

Agenda

- Study Area
- Outreach
- Safety Improvement Recommendations
- Next Steps
- Q & A



Concept Area: Public Policy

- General Plan - Transportation Element (2009)
 - Truck Route
 - Transit and Bicycle Priority Streets
- City of Alameda Bicycle Plan (2010)



Concept Area: Issues to Resolve

- Multiple schools (approx. 4,500 students/9 schools)
- 1.7 mile study area / residential area
- AC Transit, truck, commercial, jobs and ferry access
- Partial SF Bay Trail / Partial Caltrans facility – SR 61



Central Avenue Proposed Street Concept

Concept Area: Safety

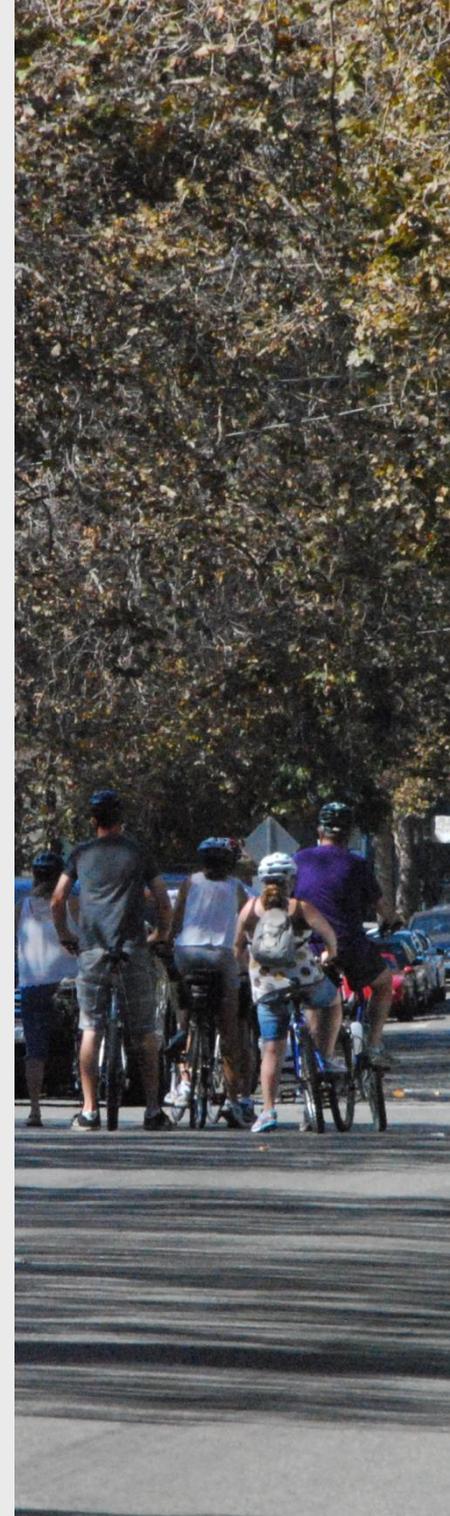
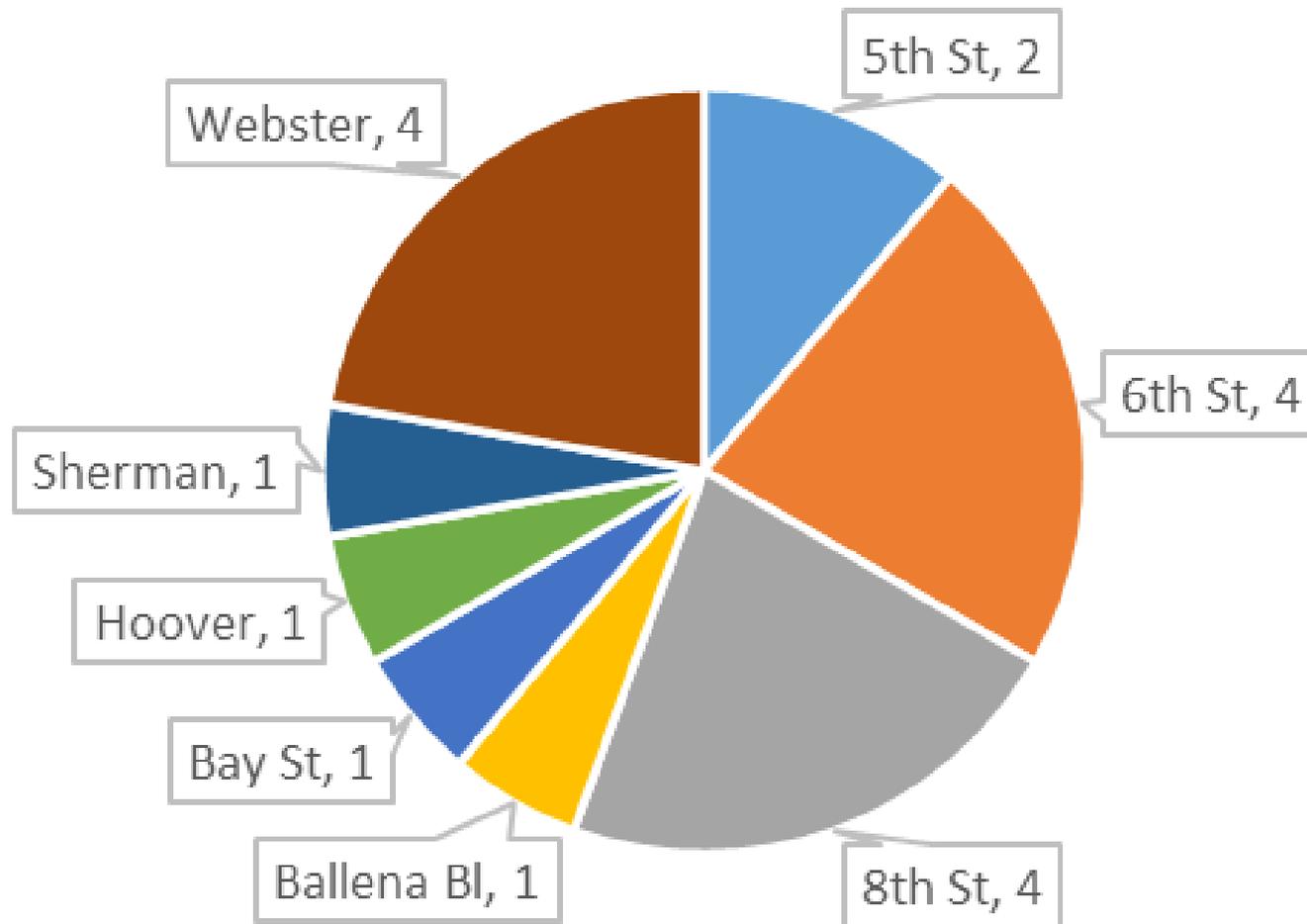
■ Roadway Safety

- Actual Speeds: 30-33 mph
- 89 injuries from collisions past 10 years
 - 18 walking (1.6/year) = 20% (16% citywide)
 - 22 bicycling (2 per year) = 25% (16% citywide)
- Bicycling/walking injuries = 45% (32% citywide)
- Study Area mileage = 1.4% of citywide streets
- Study Area injuries = 4.1% (compared to citywide injuries)



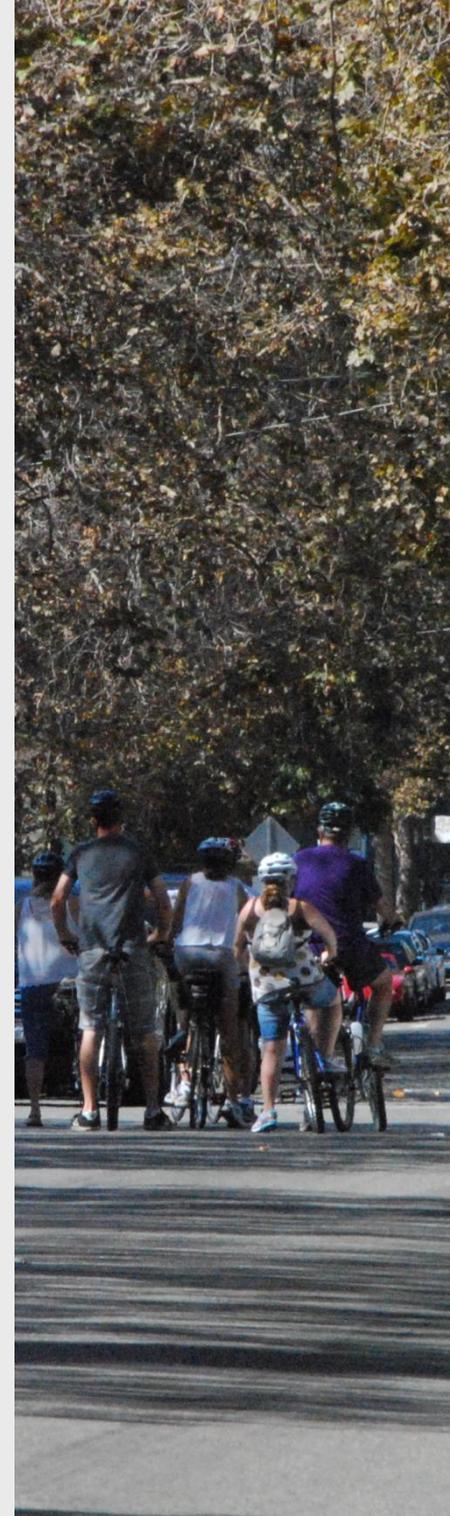
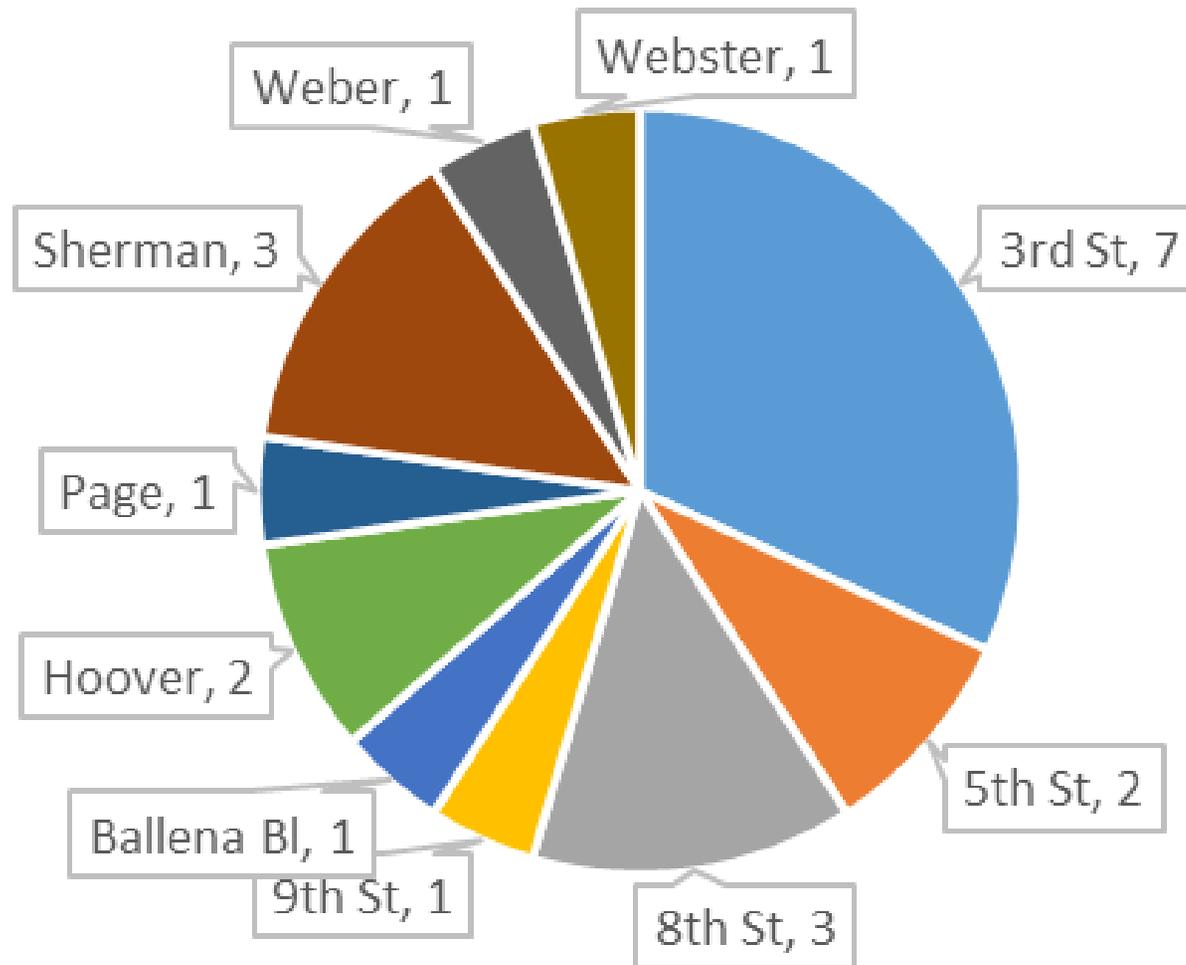
Concept Area: Safety

Number of Pedestrian Injuries by Intersection
(2004-2013)



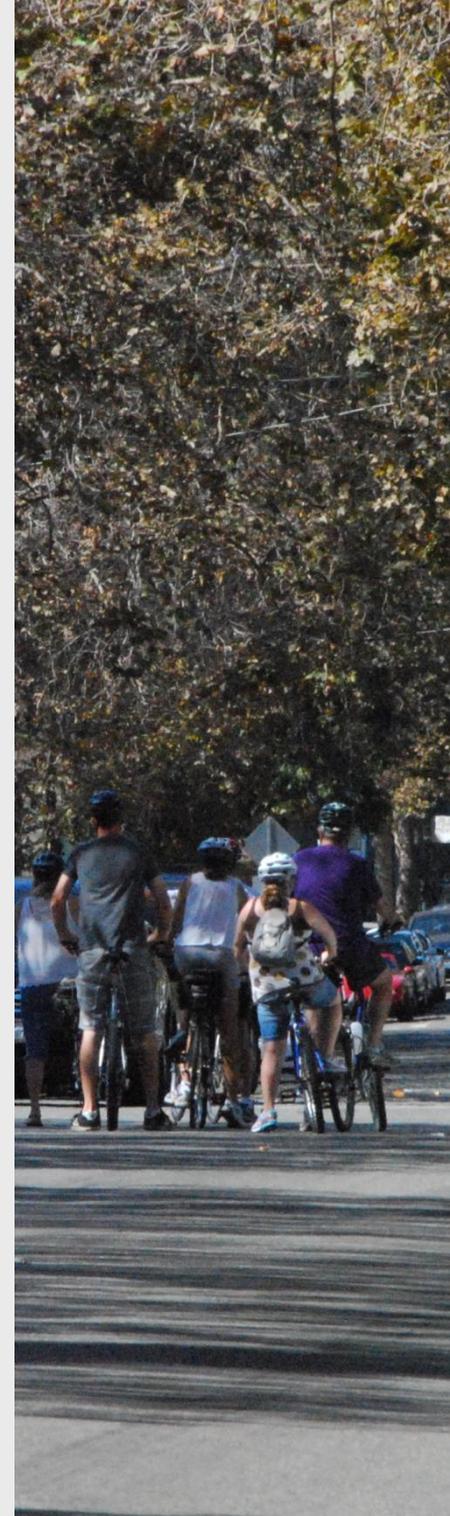
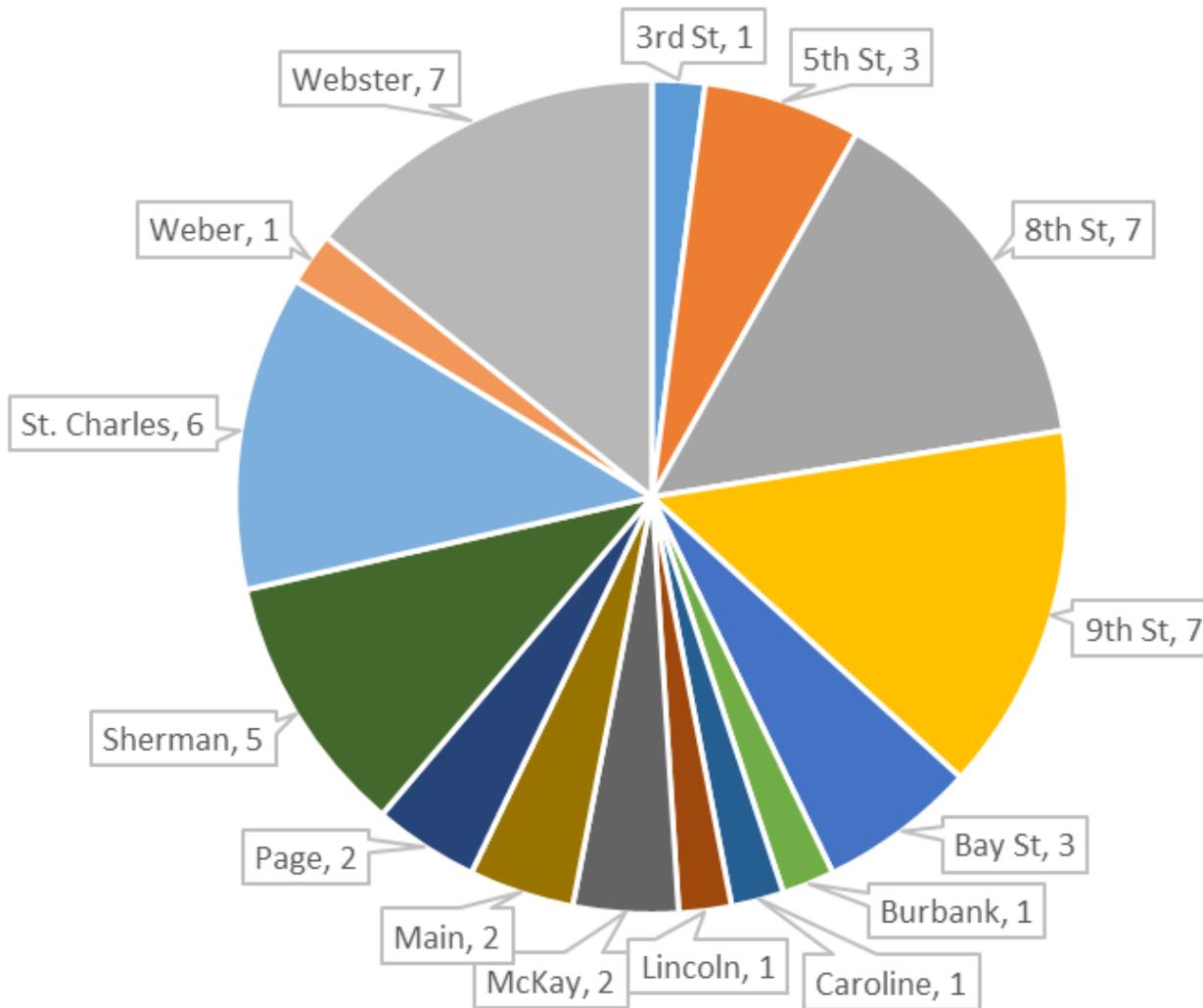
Concept Area: Safety

Number of Bicyclist Injuries by Intersection (2004-2013)



Concept Area: Safety

Number of Motorist Injuries by Intersection
(2004-2013)



Outreach: Process

- Open Forum: <http://alamedaca.gov/public-works/open-forum>
- Advisory Committee: met three times and individually
- Community Workshops:
 - Overview (April 14)
 - Concepts (June 4)
 - Preferred Concept (Sept 17)
- Transportation Commission Meetings:
 - Concepts (May 27)
 - Recommended Concept (Nov 18)
- City Council Meeting: Recommended Concept (early 2016)

Outreach: Survey Results

- Main/Pacific to Boat Ramp Rd/Encinal High School
 - How would you rank the preferred option? (1 as favored and 5 as not favored)

		Response Percent	Response Count
1		65.8%	77
2		10.3%	12
3		3.4%	4
4		2.6%	3
5		17.9%	21



Outreach: Survey Results

- Boat Ramp Rd/Encinal High to Third/Taylor
 - How would you rank the preferred option? (1 as favored and 5 as not favored)

		Response Percent	Response Count
1		55.6%	65
2		15.4%	18
3		6.0%	7
4		5.1%	6
5		17.9%	21



Outreach: Survey Results

- Third/Taylor to Fourth/Ballena Blvd.
 - Which option do you prefer?

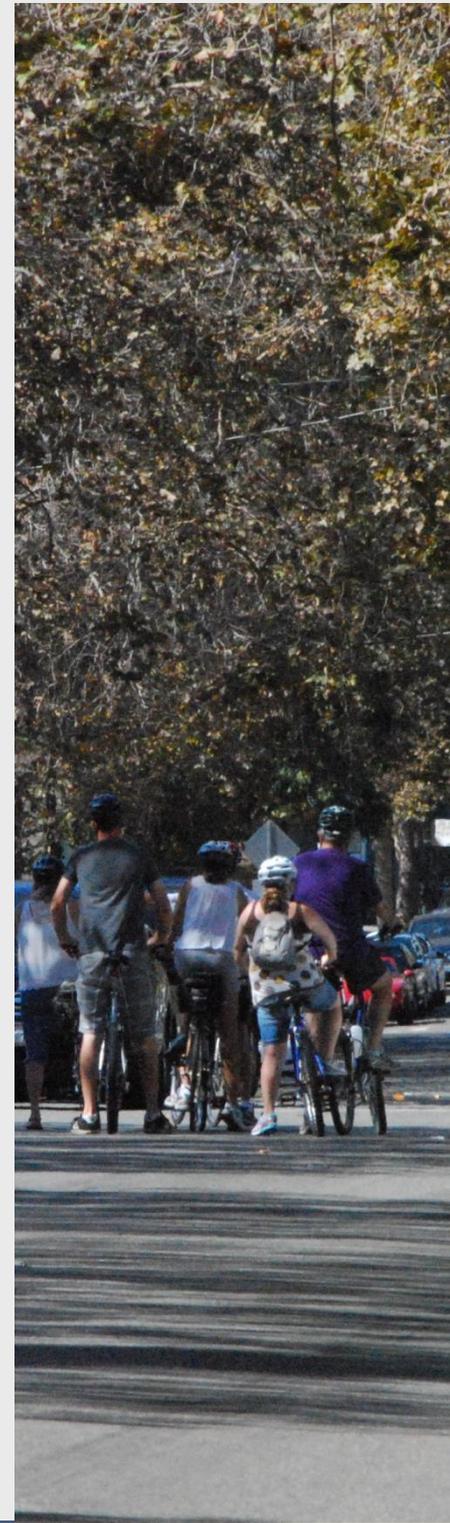
		Response Percent	Response Count
Two-way cycle track (south side of street)		50.9%	58
One-way cycle track (south side of street)		11.4%	13
Buffered bike lanes		30.7%	35
None		14.0%	16



Outreach: Survey Results

- Fourth/Ballena Blvd. to Sherman/Encinal
 - How would you rank the preferred option? (1 as favored and 5 as not favored)

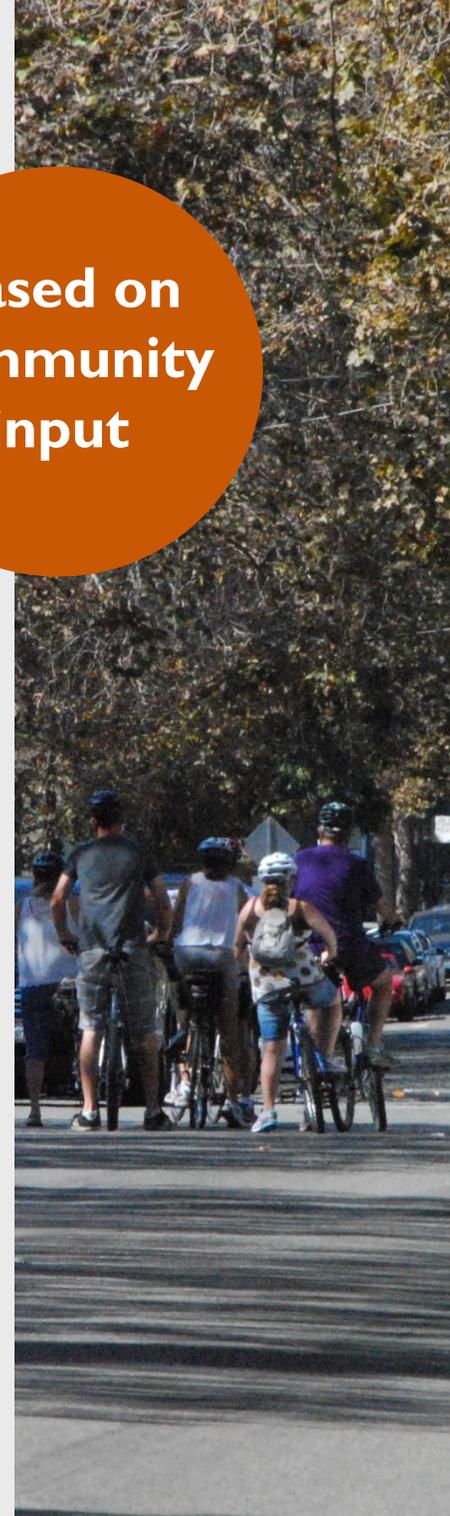
		Response Percent	Response Count
1		28.4%	33
2		18.1%	21
3		12.1%	14
4		16.4%	19
5		25.0%	29



Concept: Goals

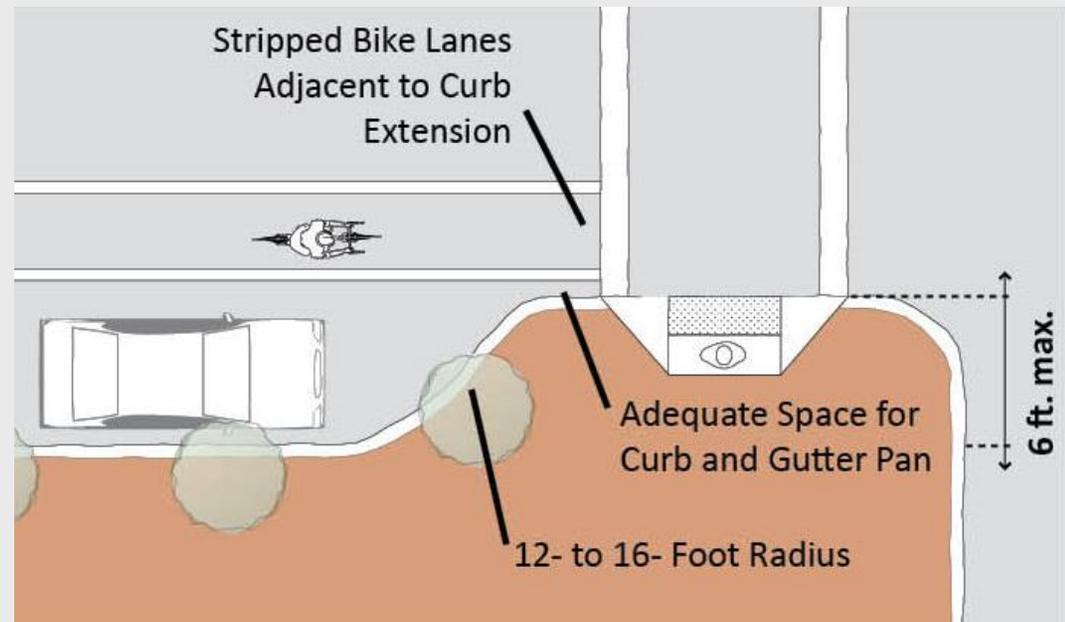
1. **Encourage bicycling and walking**
2. **Improve safety**
3. **Improve the streetscape**
4. **Traffic calming**
5. **Encourage transit use**
6. **Revitalize West Alameda**
7. **Improve public access to the SF Bay**
8. **Minimize disruption to motorists**
9. **Improve truck access**

**Based on
community
input**



Concept: Components

- **Pedestrian Improvements**
- **Bikeway**
- **Center Turn Lane**
- **Streetscape Improvements**
 - gateway, trees, stormwater, landscape
- **Accessibility**
- **Utilities: storm, sewer**
- **Pavement resurfacing**
- **Truck and bus access**



Concept: Bikeway

- Do nothing different
- Sharrows markings
- Bike lanes + center turn lane
- Two-way separated bikeway
- One-way separated bikeway
- Buffered bike lanes



Concept: Bikeway - West End

- Westbound bike lane
- Two-way separated bikeway by
 - Paden, Encinal and Junior Jets Schools
 - SF Bay Trail
 - Alameda Point



Concept: Addresses Concerns

- Center turn lane safety benefits
- Bikeway: 95% of study area
- Protected bikeways for schools and SF Bay Trail
- Best practice treatments at conflict areas
- Easier for people to walk
- Accommodates trucks
- Minimal motorist delay
- Net gain of parking

Concept: Improves Safety

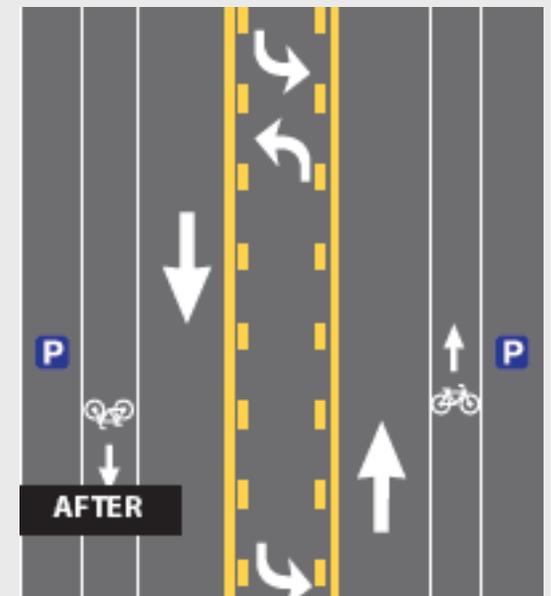
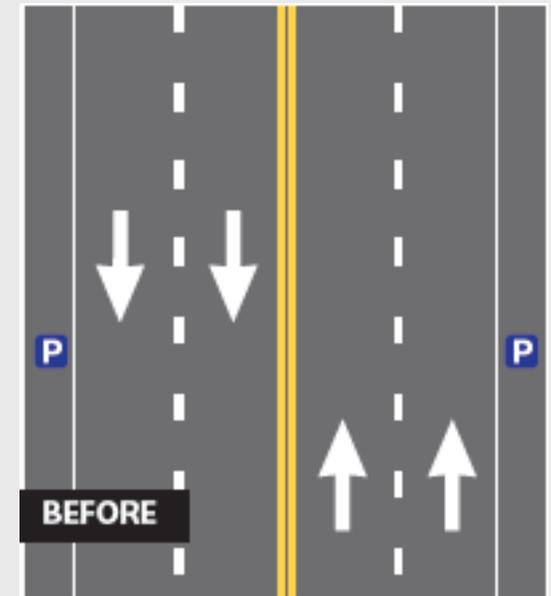
Federal Highway Administration (FHWA) identifies volumes below 20,000/day as feasible for lane reduction.

Street Name	Veh/Day
Atlantic Ave. (Buena Vista to Constitution)	10,956
Broadway (Santa Clara Ave to Otis Dr)	10,552
Fernside Blvd. (Tilden Way to High St)	8,550
Central Avenue	9,327
Central Avenue: FUTURE (average)	12,000
Central Avenue: FUTURE (max.)	16,000

Concept: Benefits

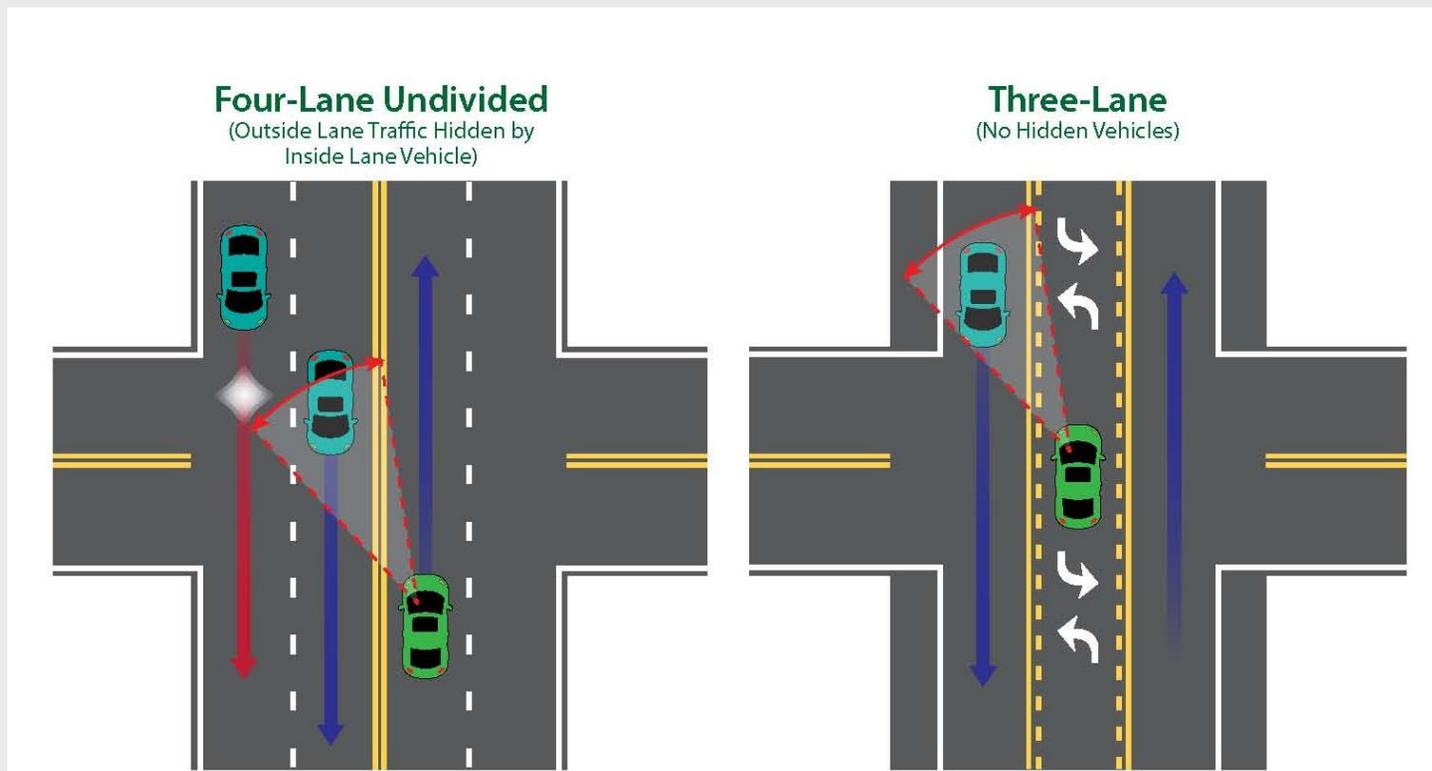
According to FHWA:

- Reduces collisions by at least 19%
- Reduces speeds by at least 3 mph
- Less severe collisions
- Fewer vehicle lanes to cross
- Better visibility of pedestrians
- Space for bicyclists
- Smoother travel flow



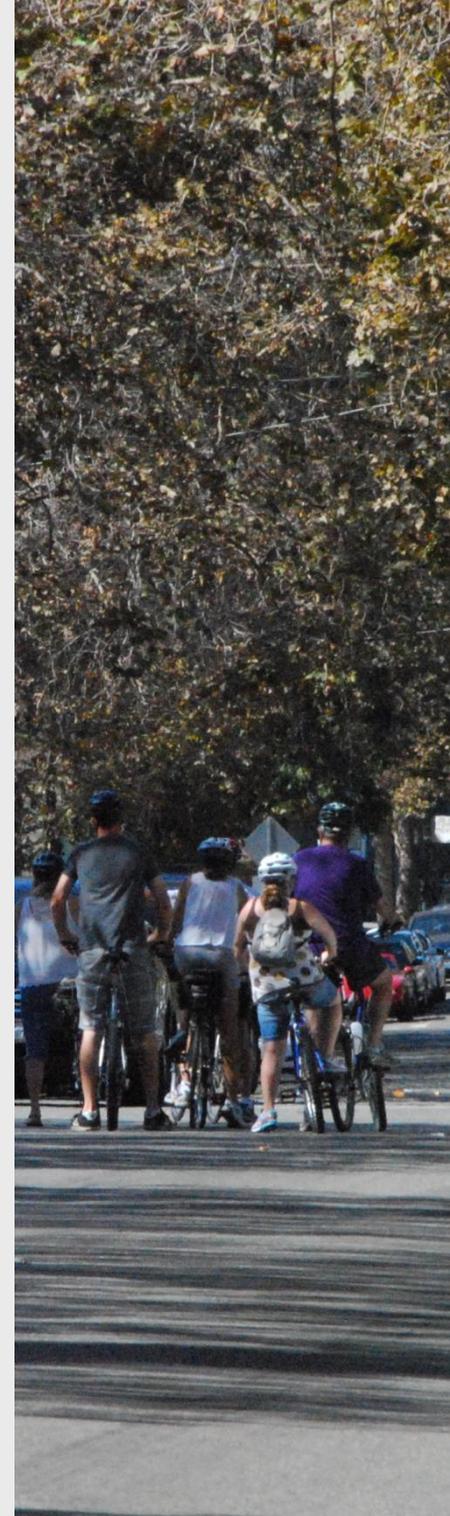
Concept: Motorist Safety

- Simpler crossings for side street motorists
- Fewer conflict points for sideswipe and rear-end collisions
- More visibility for left turning vehicles



Concept: Pedestrian and Bicyclist Safety

- Slower vehicle speeds lead to fewer and less severe crashes
- Fewer motor vehicle travel lanes to cross
- Shorter pedestrian crossing distances
- Space for bicyclists
- More visibility for pedestrians and bicyclists



Concept: Lane Reductions



- Valencia St in San Francisco

- Lakeshore Avenue by Lake Merritt in Oakland



Central Avenue Proposed Street Concept

Concept: Lane Reductions (cont.)



- Story/Lincoln in San Jose



- Charleston-Arastradero in Palo Alto

Concept: Local Examples

- Local Examples
 - Fernside = wider street than Central
 - Two-way separated bikeway installed in 2009
 - One bicyclist/motorist collision in cycle track
 - Increase in bicycling
 - Slower speeds
 - Shoreline = narrower street
 - Transitional period (one year after installation)



Central

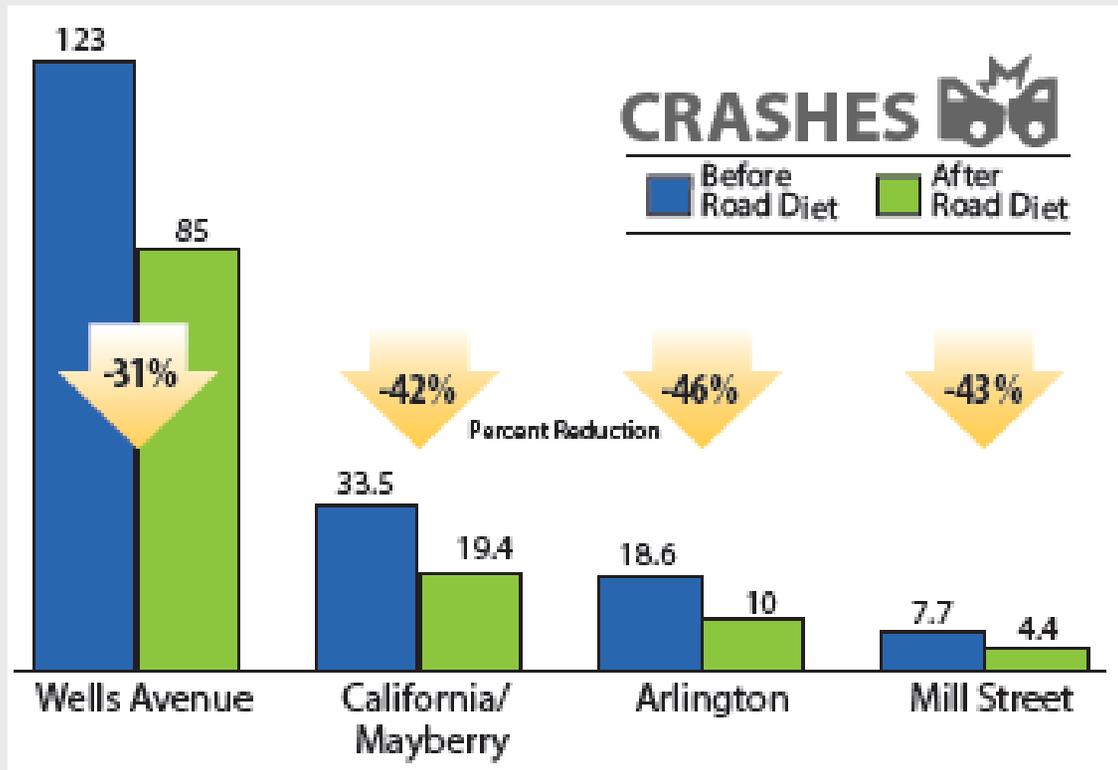
Concept

Concept: Lane Reductions (cont.)

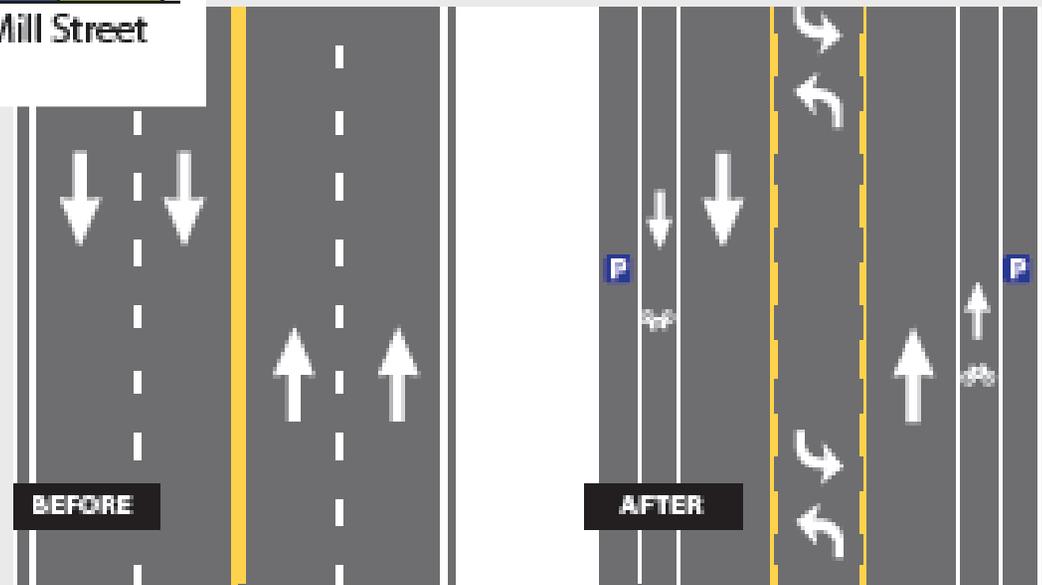


- Santa Monica – Ocean Park Blvd
 - 65% reduction in collisions
 - 60% reduction in injury collisions

Concept: Lane Reductions (cont.)



- Reno, Nevada corridors



Concept: Lane Reductions (cont.)



- Seattle, Washington – Stone Way
 - More than 80% reduction in top speeders
 - 14% reduction in collisions
 - 33% reduction in injury collisions
 - 80% reduction in pedestrian collisions
 - 35% increase in bicyclists
 - No motorist diversions