COUNTERMEASURE PAIRING
VISION ZERO SACRAMENTO
ZERO TRAFFIC DEATHS
1. Set Goals and Policy
2. Data Collection
3. Data Analysis
4. Collision Profiles
5. Countermeasures
6. Action Plan
ENGINEERING COUNTERMEASURES
bicycle signal phase

leading pedestrian interval

rectangular rapid flashing beacon (RRFB)

protected left turn
traffic circle

pedestrian refuge island

curb extension

traffic diverter
crosswalk lighting

bike box

all-way stop control

buffered bike lane
SPEED CONTROL & OTHER

- Radar speed sign
- Speed table
- School zone 15 mph speed limit
- Hazard identification program
OTHER COUNTERMEASURES
vision zero annual report

education campaign about speed

expand traffic enforcement team

expand red light camera program
# COUNTERMEASURE MATRIX

<table>
<thead>
<tr>
<th>Collision Profiles</th>
<th>Mode</th>
<th>Primary Countermeasure</th>
<th>Secondary Countermeasure</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1   Unsafe speed on non-local streets</td>
<td>All modes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2   Alcohol involved</td>
<td>All modes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3   35+ mph streets</td>
<td>All modes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4   30+ mph streets</td>
<td>Bicycle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5   Broadside collisions</td>
<td>Bicycle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6   Driver making left or right turn</td>
<td>Bicycle &amp; pedestrian</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7   Commercial areas</td>
<td>Bicycle &amp; pedestrian</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8   60+ year old victims</td>
<td>Pedestrian</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9   Pedestrian crossings outside of an intersection and crosswalk</td>
<td>Pedestrian</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10  Near transit stops</td>
<td>Pedestrian</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Vision Zero Task Force
June 28, 2017

COUNTERMEASURE PAIRING
VISION ZERO
SACRAMENTO
ZERO TRAFFIC DEATHS
PROFILE 1

unsafe speed on non-local streets
DEFINITION

primary collision factor = “unsafe speed” (driver was driving faster than was “reasonable”)

on arterial or collector streets

all modes

77 KSI collisions | 10% of KSI collisions

- 64 KSI collisions | 17% of vehicle KSI
- 3 KSI collisions | 3% of bicycle KSI
- 10 KSI collisions | 4% of pedestrian KSI

PROFILE 1
alcohol involved
186 KSI collisions | 25% of KSI collisions

- 100 KSI collisions | 26% of vehicle KSI
- 12 KSI collisions | 10% of bicycle KSI
- 74 KSI collisions | 31% of pedestrian KSI

DEFINITION
- all modes
- alcohol involved

PROFILE 2
posted speed 35+ mph
DEFINITION

All modes on streets with posted speed 35+ mph

COLLISION STATS

480 KSI collisions | 65% of KSI collisions

- 254 KSI collisions | 66% of vehicle KSI
- 68 KSI collisions | 58% of bicycle KSI
- 159 KSI collisions | 67% of pedestrian KSI
bike collisions on 30+ mph streets
DEFINITION

bicycle collisions

on streets with posted speed 30+ mph

COLLISION STATS

100 KSI collisions | 14% of KSI collisions

85% of bicycle KSI
broadside bike collisions
bicycle collisions

collision type = broadside

51 KSI collisions | 7% of KSI collisions

21 at signals
30 not at signals

44% of bicycle KSI
driver turning (bike/ped collisions)
pedestrian or bicycle collisions
driver making left or right turn

58 KSI collisions | 8% of KSI collisions

33 left turn
25 right turn

26 KSI collisions
22% of bicycle KSI

32 KSI collisions
14% of pedestrian KSI
collisions in commercial areas
55 KSI collisions
47% of bicycle KSI

146 KSI collisions
62% of pedestrian KSI

200 KSI collisions | 27% of KSI collisions

DEFINITION
pedestrian or bicycle collisions
within 500 feet of retail or recreation commercial land use

COLLISION STATS
PROFILE 7
60+ year old pedestrians
pedestrian collisions
victim is 60+ years old

70 KSI collisions | 9% of KSI collisions
pedestrian crossing outside of an intersection and crosswalk
DEFINITION
pedestrian collisions
pedestrian crossing not in crosswalk
more than 100 feet from intersection

COLLISION STATS
53 KSI collisions | 7% of KSI collisions

22% of pedestrian KSI
pedestrian collisions near transit stops
pedestrian collisions within 200 feet of light rail station or bus stop

128 KSI collisions | 17% of KSI collisions

54% of pedestrian KSI