SunnyvaleVisionZero

SUNNYVALE VISION ZERO



Draft Final Report

Presented to Sunnyvale BPAC June 20, 2019

The City of Sunnyvale's Vision Zero Plan works towards a goal of zero fatalities and serious injuries on its streets.

The Plan builds on the City's previous successes in maintaining a safe environment and on the strong foundation of its Safe Routes to School (SR2S), Pedestrian, and Bicycle Programs.

Vision Zero Overview

- **1.** Vision Zero takes a **"safety first"** approach, prioritizing traffic safety over other transportation considerations.
- 2. Vision Zero acknowledges that traffic deaths and serious injuries are **preventable**.
- 3. Vision Zero is a multidisciplinary approach that brings together a diverse set of stakeholders to address the complex problem of traffic safety.

Vision Zero in Sunnyvale

Vision Statement

Sunnyvale Vision Zero is a community-driven and data-driven initiative to eliminate preventable traffic fatalities and serious injuries. In the coming years, Sunnyvale will aim to reduce collisions through improved transportation infrastructure and programming, achieving a **50 percent reduction in fatalities and serious injuries by 2029** and continued progress towards zero in the ten years that follow.



Vision Zero in Sunnyvale

Guiding Principles

- 1. Traffic deaths are unacceptable and preventable.
- 2. Transportation options should be safe for all users, for all modes of transportation, in all communities, and for people of all ages and abilities.
- 3. Safety takes priority over efficiency.
- 4. Actions toward Vision Zero should embody a quantitative, collaborative, and equitable approach.
- 5. Human error is inevitable and unpredictable; the transportation system should be designed to anticipate error and minimize injury severity.
- 6. Speed is a fundamental predictor of collisions severity survival. The transportation system should be designed for speeds that safely accommodate all modes of travel.
- 7. Ongoing evaluation should measure performance against the Sunnyvale Vision Zero Plan objectives.

Progress Update

Project Timeline

	Group	oment c Workshop eholder Focus			Vision Ze Develo	pment			Final BP. Council N		
MAY-AUG 2017	SEP-DE	C 2017	JAN-MA	Y 2018	JUN-DE	C 2018	JAN-MA	Y 2019	JUN-JUL	. 2019	
Project Initiation & Existing Conditions Assessment			Stra	entation tegy Workshop Presentatior			Vision Plan Re City S	view by			

Progress Update

Community Engagement

Phase 1 – Fall 2017



Phase 2 – Spring 2018



Phase 3 – Fall 2018

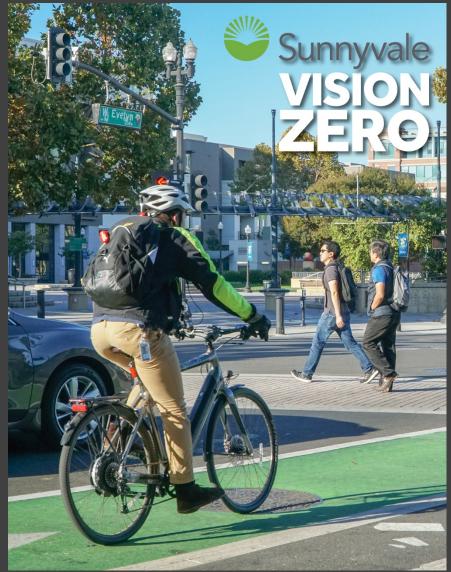




Plan Elements

- A Call to Action to Make Sunnyvale's Streets Safer
- About Vision Zero
- Vision Statement & Guiding Principles
- Building on Prior Investments in Sunnyvale
- Building Blocks of Vision Zero in Sunnyvale
- Countermeasure Toolbox
 and Collision Profiles
- Action Plan

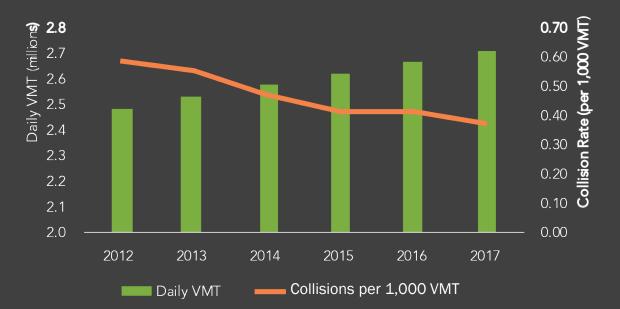
Plan Elements



Building on Prior Investment

Between 2012 and 2017, Sunnyvale's daily vehicle miles traveled (VMT) increased by **9%**, while the total number of collisions decreased. As a result, the collision rate (collisions per 1,000 VMT) decreased by **37%** between 2012 and 2017.

VMT and Collision Rate





Sunnyvale saw **6,244** collisions between 2012 and 2016, including **91** KSI collisions



11% of KSI collisions involved drivers under the influence of alcohol or drugs



Only **10%** of all collisions involved bicyclists or pedestrians, yet bicyclist and pedestrian collisions comprised **56%** of KSI collisions



72% of pedestrian KSI collisions occurred at intersections

Collision Analysis



60% of KSI collisions
occurred on roadways with
speed limits greater than
35 miles per hour



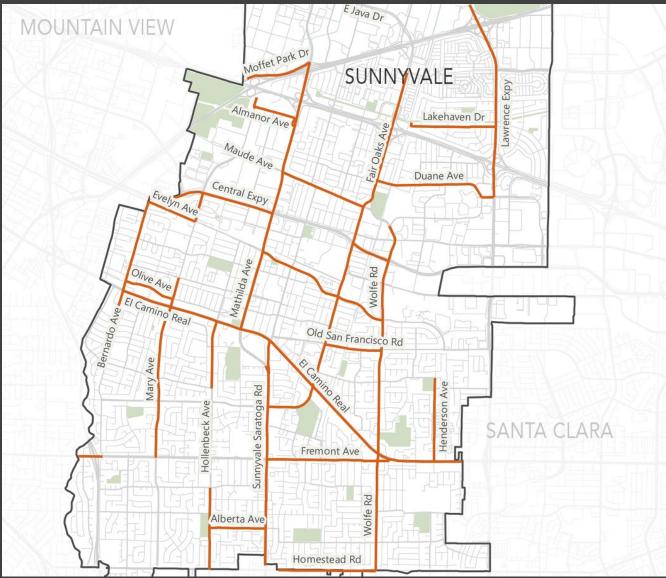
7% of all collisions and 4% of KSI collisions occurred on expressways



KSI collisions were most
likely to occur in the late
afternoon or early evening. **51%** of collisions occur
between 3 PM and 9 PM.

SunnyvaleVisionZero

High Injury Network



Countermeasure Toolbox





BULB OUTS AND CURB EXTENSIONS

Raised devices that reduce the corner radius or narrow the roadway to reduce speeds of turning vehicles, improve sight lines, and shorten crossing distances.

EFFICACY:	
COST:	
COMPLEXITY:	



LANE REDUCTION

Reduction in number of travel lanes, often paired with a center turn lane and/or bicycle lanes.



Collision Profiles

Walking or Bicycling on Major Roadway (Expressway, Arterial, or Collector)

FACTORS

Pedestrian or bicycle collision

Collision occurred on an expressway, arterial, or collector

STATS

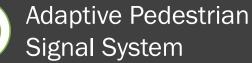
43 KSI Collisions Accounts for **47%** of all KSI collisions

ADDITIONAL NOTES

14 of the 43 KSI profile collisions (33%) occurred on El Camino Real



Key Countermeasures





Protected Bikeway

Pedestrian Refuge

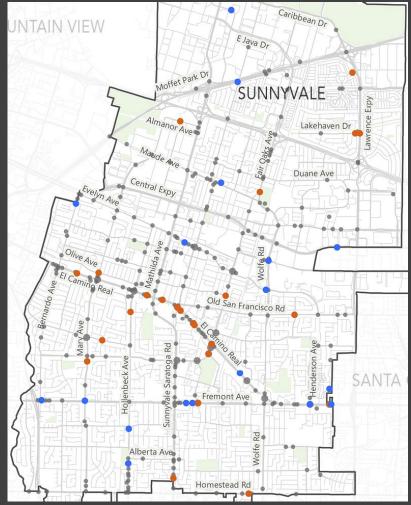
Island and Median



Protected Turns



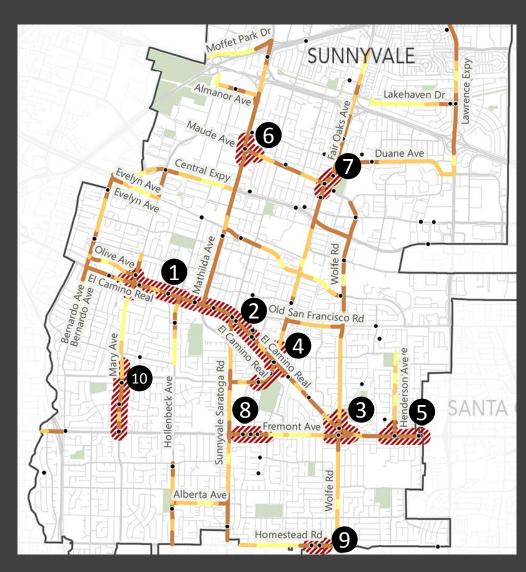
Roadway and Intersection Safety Lighting



1. El Camino Real between S. Mary Avenue and S. Mathilda Avenue

Priority Locations

- 2. El Camino Real between S. Taaffe Street and S. Fair Oaks Avenue
- 3. El Camino Real, E. Fremont Avenue, and S. Wolfe Road (intersection)
- 4. Remington Drive/Fair Oaks Avenue between Iris Avenue and Manet Drive
- 5. El Camino Real between Henderson Avenue and Helen Avenue
- 6. N. Mathilda Avenue and W. Maude Avenue (intersection)
- 7. N. Fair Oaks Avenue between Balsam Avenue and E. Taylor Avenue
- 8. Fremont Avenue between Sunnyvale-Saratoga Road and Floyd Avenue
- 9. Homestead Road between Heron Avenue and Wolfe Road
- 10. Mary Avenue between Remington Drive and Fremont Avenue



Implementable Actions

The Implementation Actions are organized into four action areas:



Vision Zero Program Initiatives and Evaluation



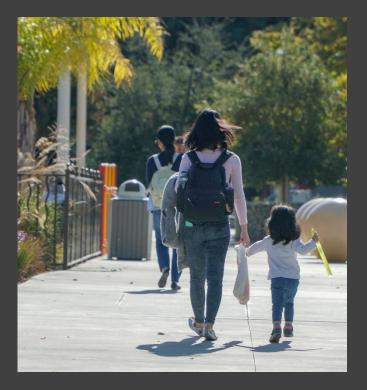
Street Design and Operation



Behavioral Change



Vulnerable Road Users



Implementable Actions

Vision Zero Program Initiatives and Evaluation

SAFETY STRA	ATEGY Program Initiati		TIMELINE	PROGRESS MEASURES	KEY PARTNERS	CITY RESOURCES
VISION Zero I	Frogram initiati					
A.6	Future Plans	Incorporate Vision Zero safety principles into future City plans and design documents.	Ongoing	Number of plans and policies incorporating Vision Zero	Community Development Department, Department of Public Works	Low

Street Design and Operation

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SAFETY	STRATEGY		TIMELINE	PROGRESS MEASURES	KEY PARTNERS	CITY RESOURCES			
High Injury Network Infrastructure									
B.1	Priority Locations	Develop designs and secure grant funding for ten priority project locations identified in plan, with a focus on roadway designs to improve safety.	Medium- Term	Number of projects funded	Department of Public Works	High			

Next Step:

Vision Zero Presented to City Council for Adoption

Recommendation – Alternative 1:



Recommend City Council

Adopt the Vision Zero Plan