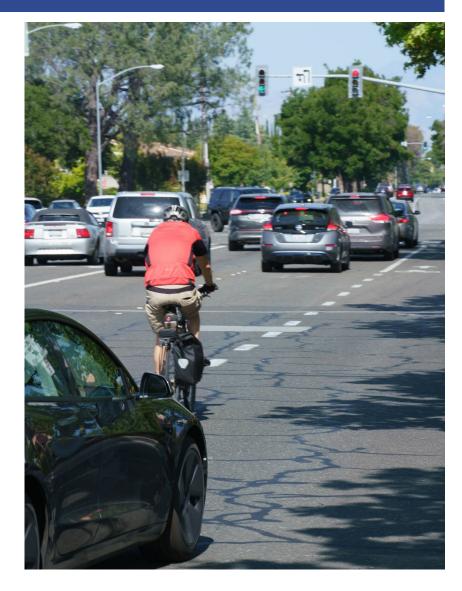


PURPOSE OF TODAY'S MEETING

- Introductions
- What is Vision Zero?
- Collision Analysis
- Countermeasure Toolbox and Profiles
- Action Plan
- Vision Zero Programs, Partnerships, Data Collection
- Open Discussion
- Next Steps





INTRODUCTION

City of Cupertino:

- David Stillman, Transportation Manager
- Prashanth Dullu, Assistant Engineer

TJKM Transportation Consultants:

- Ruta Jariwala, Principal Engineer
- Mark Doty, Project Manager
- Gary W. Schatz, Senior Planner
- Devyani Padubidri, Assistant Transportation Planner





FROM LRSP



VISION ZERO

- In 2022 the City of Cupertino developed its Local Roadway Safety Plan (LRSP)
- It identified safety projects and developed a countermeasure toolbox
- Stakeholder and community input was crucial in shaping the LRSP.
- Building on past planning efforts,
 LRSP insights help inform Vision
 Zero.

EFFORTS SAFETY STREET

- Local Roadway Safety Plan (LRSP) (2022)
- City of Cupertino's Climate Action Plan 2.0 (2022)
- Bollinger Road Corridor Safety Study (2021)
- Transportation Study Guidelines (2021)
- Parks and Recreation System Master Plan (2020)
- Pedestrian Transportation Plan (2018)
- 2016 Bicycle Transportation Plan (2016)
- General Plan 2040 Chapter 5: Mobility Element (2015)
- VTP2040: The Long-Range Transportation Plan for Santa Clara County
- Safe Route To School Program
- City of Cupertino School Walk Audit Report



WHAT IS VISION ZERO?

- Vision Zero combines a belief in zero traffic fatalities with proactive strategies for safer roads.
- It stems from a deep belief that no one should endure death or severe injury on our streets, extending that value to all individuals.
- Vision Zero's comprehensive strategy aims to eliminate fatal and severe injury crashes, promoting safe, equitable mobility for everyone.
- This approach prioritizes safety and inclusivity in road planning and design, regardless of age, ability, identity, or mode of travel.
- Originating in Sweden, Vision Zero has seen success in Europe and is gaining momentum in various U.S. jurisdictions.

PRINCIPLES

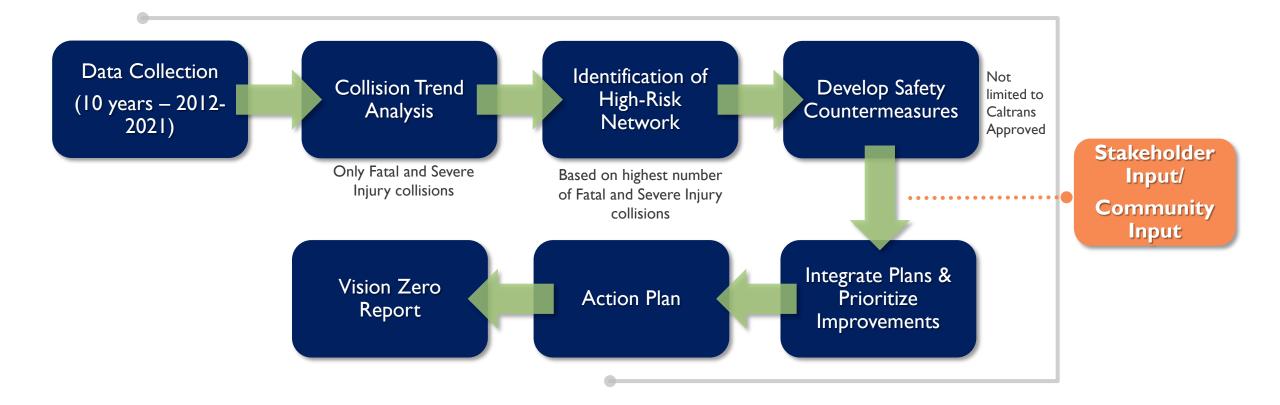
- Deaths and serious injuries are unacceptable
- Humans make mistakes
- Humans are vulnerable
- Responsibility is shared
- Safety is proactive
- Redundancy is crucial

BENEFITS

- Data driven approach to identify, analyze, and prioritize roadway safety improvements
- Considers stakeholder and community feedback to identify additional traffic safety related concerns
- Allows the City to implement a systemic approach to address collisions
- Tailored to the City's and Community specific
 traffic safety needs based on the data
- ✓ Implementation: City is eligible to apply for grants (OBAG and Safe Streets for All (SS4A))

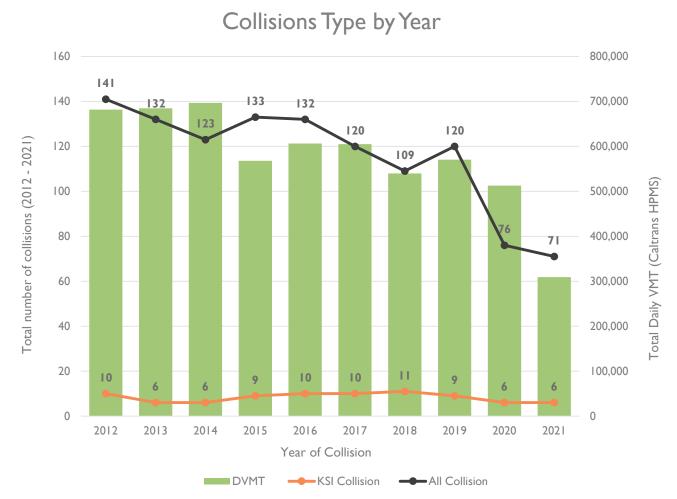


VISION ZERO PROCESS





WHY DOES CUPERTINO NEED VISION ZERO?



KSI: Killed and Severe Injury

- With one crash every three days, Cupertino's road safety is a growing concern, especially for vulnerable users.
- Despite traffic signals, intersections
 pose a risk of fatal and severe injuries,
 emphasizing the need for a
 comprehensive strategy.
- Cupertino's Vision Zero plan aims to create safer streets through various measures, prioritizing safety for all.
- The goal is to eliminate traffic fatalities and severe injuries, as they are preventable incidents with no acceptable loss of life.





COLLISION TRENDS (2012 - 2021)



Cupertino saw **1157** collisions between 2012 and 2021 including **83** KSI Collisions



88% of pedestrian and bicycle KSI collisions occurred at intersections



Victims between 25 - 64 years represent **58%** of KSI collisions involving pedestrian and bicyclists



55% of pedestrian and bicycle KSI collisions occurred at signalized intersections



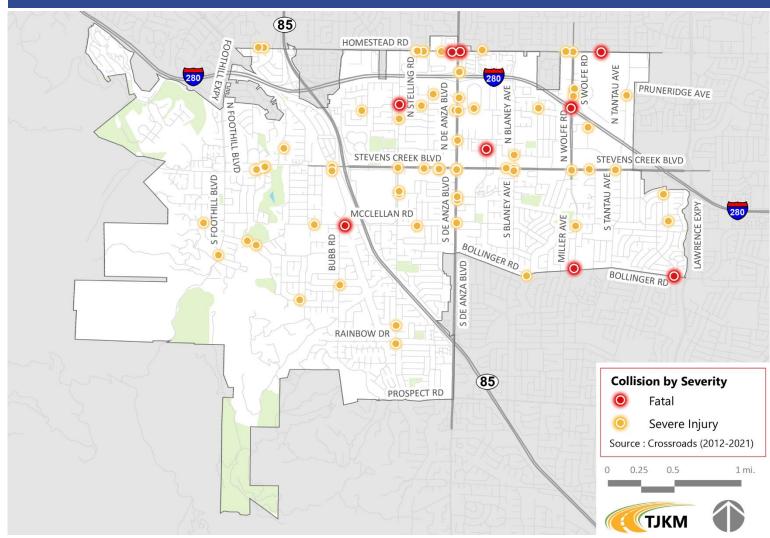
38% of all collisions involved pedestrian and bicycle yet pedestrian and bicycle collisions comprise **60%** of KSI collisions

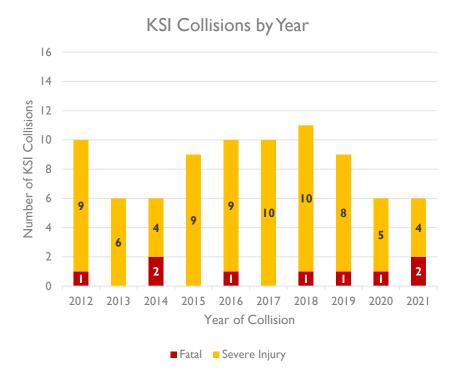


Pedestrian and bicycle KSI collisions were most likely to occur in the late afternoon or evening. **56%** of the collisions occur between 4 P.M. and 10 P.M.



FOCUSING ON FATALITIES AND SEVERE INJURIES





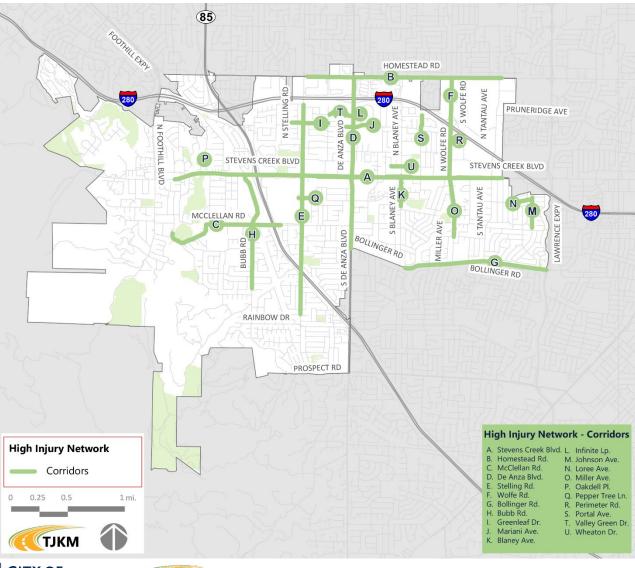
Between 2012 and 2021 there were **nine** fatalities and **74** severe injuries reported.

All Killed and Severe Injury Collisions (2012-2021)





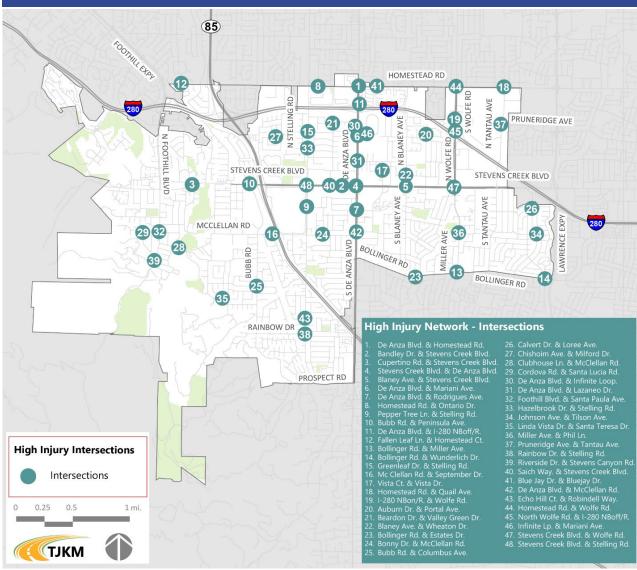
HIGH-INJURY CORRIDORS (2012-2021)



The roadways that had the highest number of collisions include:

- Stevens Creek Boulevard
- Homestead Road
- McClellan Road
- De Anza Boulevard
- Stelling Road
- Wolfe Road
- Bollinger Road

HIGH-INJURY INTERSECTIONS (2012-2021)



The intersections that had fatalities and multiple severe injury crashes are:

- De Anza Boulevard & Homestead Road.
- Bandley Drive & Stevens Creek Boulevard
- Cupertino Road & Stevens Creek Boulevard
- Stevens Creek Boulevard & De Anza Boulevard
- Blaney Avenue & Stevens Creek Boulevard
- De Anza Boulevard & Mariani Avenue
- De Anza Boulevard & Rodrigues Avenue

COLLISION PROFILES

- The City of Cupertino has identified top nine collision profiles that emphasizes the trends observed in crashes resulting in people being killed or seriously injured (KSI).
- These profiles are developed through the analysis of collision data and relevant environmental factors.
- Each profile identifies a collision type that is considered a priority concern.
- Accompanying each profile are safety countermeasures that are most applicable to the specific collision and location context.
- These countermeasures, which include engineering, education, and enforcement strategies, form a toolbox of safety interventions that the City of Cupertino will utilize to implement projects tailored to address unique safety issues.



COLLISION PROFILES



PROFILE 1: Pedestrian & bicyclist are most vulnerable



PROFILE 2: Unsafe speeds



PROFILE 3: Improve intersection safety for all



PROFILE 4: Pedestrian code violation



PROFILE 5:
Majority of bicycle collisions are broadside collisions



PROFILE 6: Teenagers biking near schools and parks



PROFILE 7:Driving under influence



PROFILE 8:Bicycle collisions and automobile right-of-way violation



PROFILE 9:Collisions near transit stops



COUNTERMEASURE TOOLBOX



ROADWAY DESIGN



PEDESTRIAN SAFETY



BICYCLIST SAFETY



OPERATIONS AND SIGNAL TIMING



SPEED MANAGEMENT



SIGNAGE AND MARKING



EDUCATION AND PUBLIC AWARENESS



ENFORCEMENT



COUNTERMEASURE TOOLBOX - ROADWAY DESIGN



ROAD DIETS AND LANE REDUCTION

EFFICACY: COST: COMPLEXITY: CO



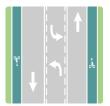
ROADWAY AND INTERSECTION SAFETY LIGHTING

EFFICACY: COST: COMPLEXITY: CO



SLIP LANE CLOSURES

EFFICACY: COST: COMPLEXITY: CO



LANE RECONFIGURATION

EFFICACY: COST: COMPLEXITY: CO



INTERSECTION TIGHTENING

EFFICACY: COST: COMPLEXITY: CO



RAISED MEDIANS

EFFICACY: COST: COMPLEXITY: CO



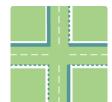
CURB EXTENSIONS & BULB OUTS

EFFICACY: COST: COMPLEXITY: CO



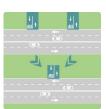
RAISED INTERSECTIONS

EFFICACY: COST: COMPLEXITY: CO



CLOSING SIDEWALK GAPS

COST: COMPLEXITY: COMPLEXITY:



CONSOLIDATING DRIVEWAYS

EFFICACY: COST: COMPLEXITY: CO



RAISED CROSSWALK

COST: COMPLEXITY:

COUNTERMEASURE TOOLBOX - PEDESTRIAN SAFETY



















COUNTERMEASURE TOOLBOX – BICYCLIST SAFETY



BIKE INTERSECTION

MARKING

COST: COMPLEXITY:



SIGNAL DETECTION AND

ACTUATION

EFFICACY: COST: COMPLEXITY: CO



BICYCLE SIGNAL

EFFICACY: COST: COMPLEXITY: CO



PRIORITIZE BIKE LANES OVER ON-STREET PARKING

EFFICACY: COST: COMPLEXITY: CO



TWO-STAGE BICYCLE

TURN BOX

EFFICACY:

COST:

COMPLEXITY:



GREEN PAVEMENT

EFFICACY: COST: COMPLEXITY: CO



PROTECTED BIKEWAYS

COMPLEXITY:



BIKE BOX

EFFICACY: COST: COMPLEXITY: CO



BUFFERED BIKE LANES

EFFICACY: COST: COMPLEXITY: CO



SHARED USE TRAIL &

BICYCLE PATH

EFFICACY:
COST:
COMPLEXITY:



COUNTERMEASURE TOOLBOX - OPERATIONS AND TIMING



ADAPTIVE PEDESTRIAN SIGNAL TIMING

EFFICACY: COST: COMPLEXITY:







SIGNAL DETECTION & ACTUATION PED COUNTDOWN SIGNAL HEAD

EFFICACY: COST: COMPLEXITY:

ADVANCED DILEMMA **ZONE DETECTION**



SIGNAL SYNC SLOW

GREEN WAVE EFFICACY: COMPLEXITY:





LEADING PEDESTRIAN/BICYCLE **INTERVALS**

EFFICACY: COST: COMPLEXITY:



SIGNAL TIMING & PHASING IMPROVEMENTS

COMPLEXITY:



MODIFIED INTERSECTION STOP-CONTROL

EFFICACY: COST: COMPLEXITY:



HYBRID LEFT TURN

EFFICACY:

COMPLEXITY:

FLASHING YELLOW

EFFICACY:

COST:

RIGHT TURN SIGNAL

COMPLEXITY:

COST:

SIGNAL

COUNTERMEASURE TOOLBOX – SPEED MANAGEMENT



VEHICLE SPEED FEEDBACK SIGN





REDUCED SPEED SCHOOL ZONE

EFFICACY: COST: COMPLEXITY:



AUTOMATED SPEED ENFORCEMENT

EFFICACY: COST: COMPLEXITY:



CHOKERS, CHICANES, BULB OUTS, **SPLITTER ISLANDS, & ROUNDABOUTS**

EFFICACY: COST: COMPLEXITY:



TURN CALMING PROGRAM

EFFICACY: COST: COMPLEXITY:



SPEED CUSHIONS, SPEED HUMPS & SPEED TABLES

EFFICACY: COMPLEXITY:



IMPROVE HIGH FRICTION SURFACE TREATMENT

EFFICACY: COST: COMPLEXITY:



CONVERT SIGNAL TO MAST ARM

EFFICACY: COST: COMPLEXITY:



COUNTERMEASURE TOOLBOX

MARKING AND SIGNAGE



BACK-PLATES WITH RETROREFLECTIVE BORDERS

EFFICACY: COST: COMPLEXITY: CO



PEDESTRIAN PADDLE SIGNS

EFFICACY: COST: COMPLEXITY:



EDGE LINE

EFFICACY: COST: COMPLEXITY: CO



PARKING RESTRICTION AT INTERSECTION

EFFICACY: COST: COMPLEXITY: CO



HIGH VISIBILITY ENFORCEMENT

COST: COMPLEXITY:



EDUCATIONAL INITIATIVES OVER CITATIONS

EFFICACY: COST: COMPLEXITY: CO



TRAFFIC SAFETY DIVERSION PROGRAM

EFFICACY: COST: COMPLEXITY: CO



RED LIGHT VIOLATION

COUNTERMEASURE TOOLBOX - EDUCATION



EDUCATIONAL CAMPAIGN

EFFICACY: COST: COMPLEXITY: CO



SAFE ROUTES PROGRAMS

EFFICACY: COST: COMPLEXITY: CO



COMMUNITY PARTNERSHIP

EFFICACY: COST: COMPLEXITY: CO



RAPID RESPONSE SAFETY COMMUNICATION PROTOCOL

EFFICACY: COST: COMPLEXITY: CO



SHARE THE ROAD AWARENESS PROGRAM

EFFICACY: COST: COMPLEXITY: CO



ALCOHOL USE DISORDER (AUD) ASSESSMENT & TREATMENT PROGRAMS

COST: COMPLEXITY:



SAFE ROUTES TO SCHOOL PROGRAM

EFFICACY: COST: COMPLEXITY: CO



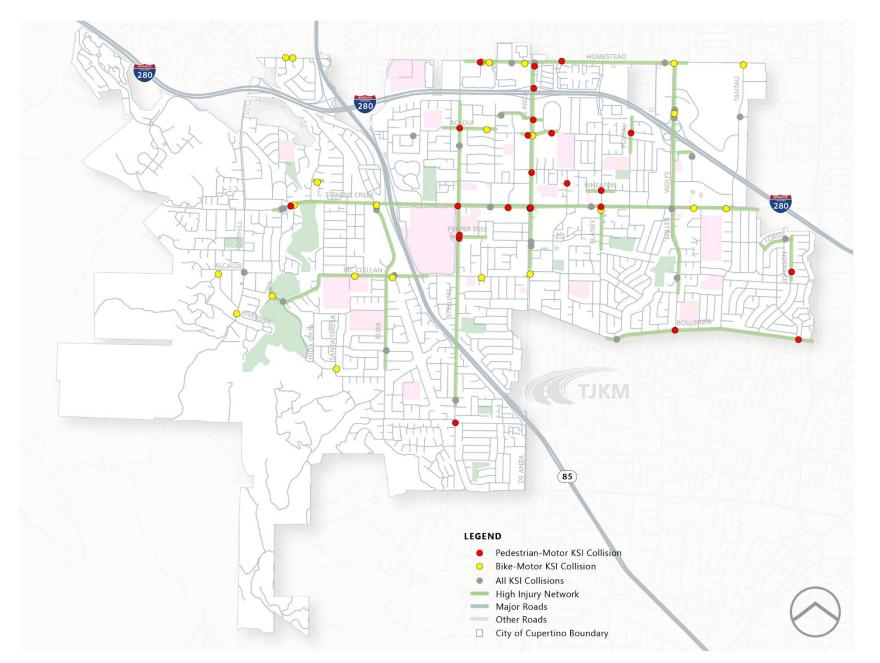
VISION ZERO TRAINING

MANUAL

EFFICACY: COST: COMPLEXITY: COMPLE



Profiles 1: PEDESTRIAN & BICYCLIST ARE MOST VULNERABLE





MARKED CROSSWALKS

Effectively decrease the occurrence of collisions along high risk corridors

EFFICACY: ■■□
COST: ■■□
COMPLEXITY: ■□□



PEDESTRIAN REFUGE ISLANDS

Provide a safe space for pedestrians to pause between traffic

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



PROTECTED BIKEWAYS

Segregated lanes shielded by flexible posts, parked cars, and planters for safe bicycle travel separate from vehicle traffic.

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



RECTANGULAR RAPID FLASHING BEACON

Offers pedestrians and bicyclists a clear path to cross the street more safely.

EFFICACY: ■■□
COST: ■■□
COMPLEXITY: ■□□



SHARE THE ROAD AWARENESS PROGRAM

Create a Share the Road Awareness Program for motorist, bicyclist and pedestrians that is easily accessible.

EFFICACY: ■■□
COST: ■■□
COMPLEXITY: ■■□

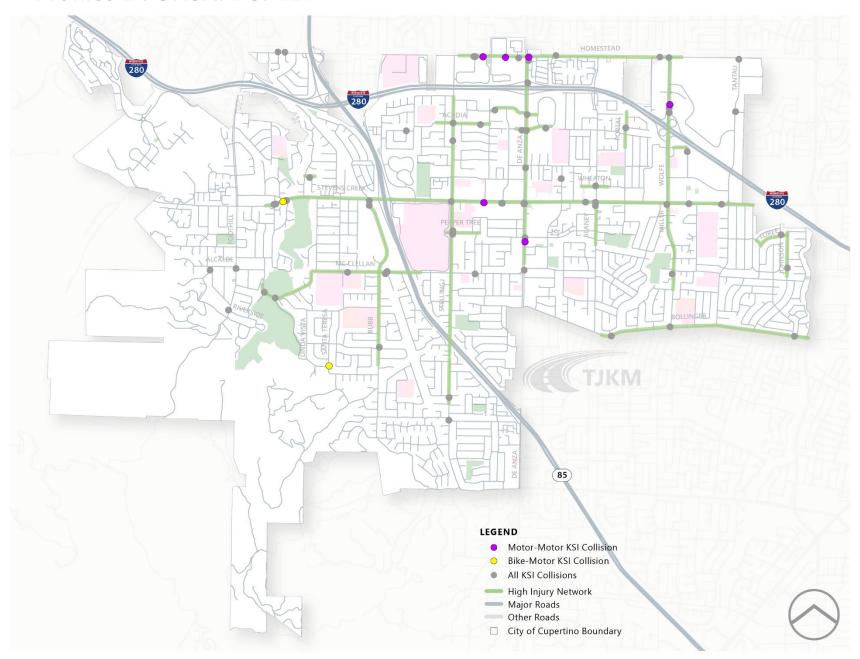


TRAFFIC SAFETY DIVERSION PROGRAM

For bicycle and pedestrian traffic violations providing access to safety courses and programs centered on biking and walking

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:

Profiles 2: UNSAFE SPEED

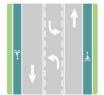




PROTECTED BIKEWAYS

Segregated lanes shielded by flexible posts, parked cars, and planters for safe bicycle travel separate from vehicle traffic.

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



LANE RECONFIGURATION

Reapportion the street to reduce excessive speeding and better serve all road users.

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



VEHICLE SPEED FEEDBACK SIGN

Radar-based vehicle speed feedback signs promote safer streets by improving drivers' speed compliance through LED displays.

EFFICACY: ■■□
COST: ■■□
COMPLEXITY: ■□□



SPEED CUSHIONS, HUMP AND TABLE

Traffic calming devices that reduce vehicle speeds

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



REDUCED SPEED SCHOOL ZONE

Reduction in speed limits in school zones reduces vehicular speeds and fatal and injury collisions

EFFICACY: ■■□
COST: ■□□
COMPLEXITY: ■□□

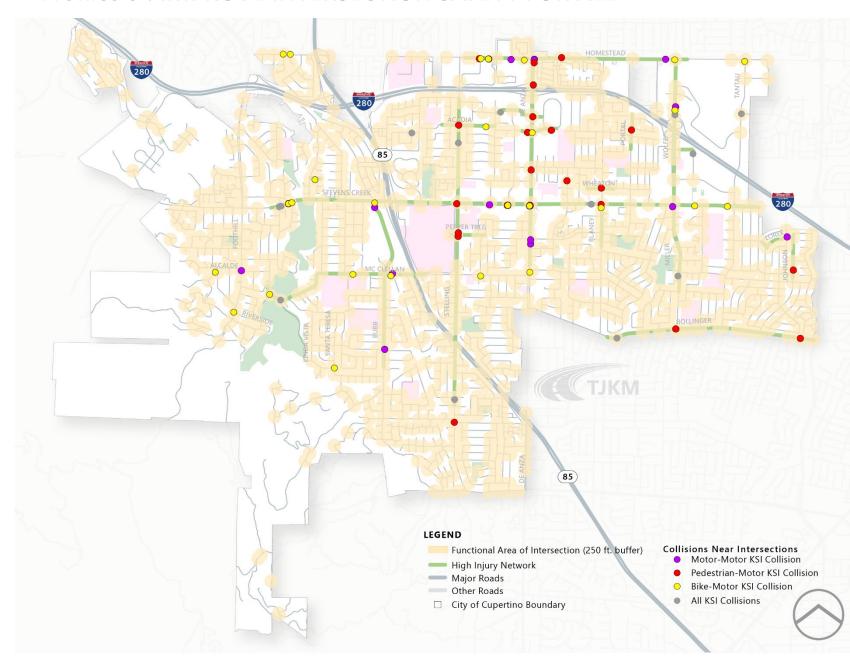


AUTOMATED SPEED ENFORCEMENT

Automated sensors linked to cameras detect red-light running and speeding, resulting in mailed citations to violators.

EFFICACY: ■■□
COST: ■■■
COMPLEXITY: ■■■

Profiles 3: IMPROVE INTERSECTION SAFETY FOR ALL





BIKE INTERSECTION MARKING

Emphasizes the priority of cyclists over turning vehicles and enhancing visibility.

COST: COMPLEXITY:



MARKED CROSSWALKS

Effectively decrease the occurrence of collisions along high risk corridors

EFFICACY: ■■□
COST: ■■□
COMPLEXITY: ■□□



ADAPTIVE PEDESTRIAN SIGNAL TIMING

Sensor detects when pedestrian are present in a crossing and automatically increases crossing time when necessary

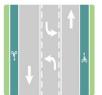
EFFICACY: ■■□
COST: ■■□
COMPLEXITY: ■■□



RAISED CROSSWALK

Reduce vehicle speeds and enhance the pedestrian crossing environment.

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



LANE RECONFIGURATION

Reapportion the street to reduce excessive speeding and better serve all road users.

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:

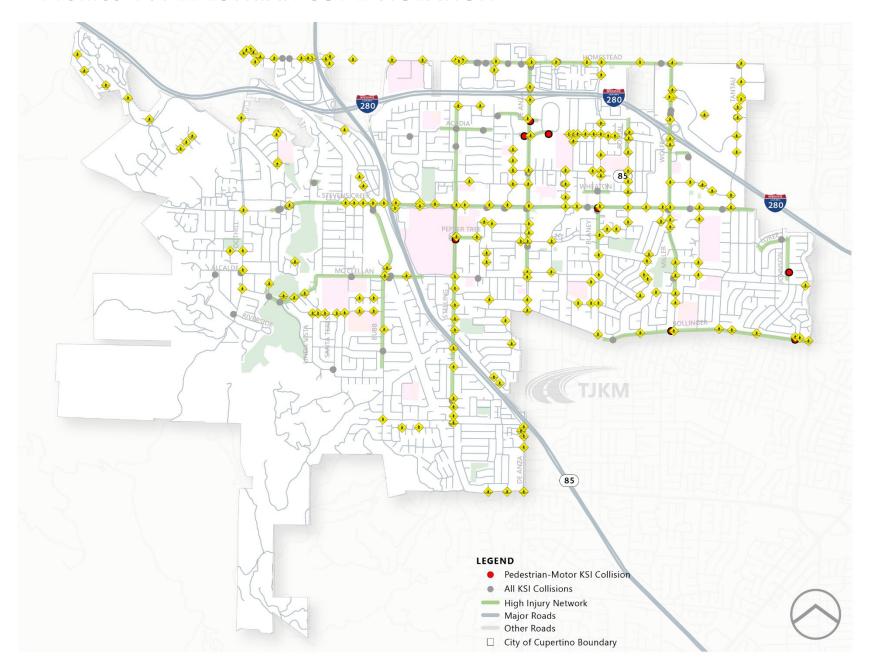


ROUNDABOUTS

Proven safety countermeasure that reduces speeds and crash potential while better serving all roadway users

EFFICACY: ■■□
COST: ■■■
COMPLEXITY: ■■■

Profiles 4: PEDESTRIAN CODE VIOLATION





MARKED CROSSWALKS

Effectively decrease the occurrence of collisions along high risk corridors

EFFICACY: ■■□
COST: ■■□
COMPLEXITY: ■□□



INTERSECTION SAFETY LIGHTING

Decreases accidents involving them during nighttime and increases awareness and response time.

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



ADAPTIVE PEDESTRIAN SIGNAL TIMING

Sensor detects when pedestrian are present in a crossing and automatically increases crossing time when necessary

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



SHARE THE ROAD AWARENESS PROGRAM

Create a Share the Road Awareness Program for motorist, bicyclist and pedestrians that is easily accessible.

EFFICACY: ■■□
COST: ■■□
COMPLEXITY: ■■□



FLASHING YELLOW RIGHT TURN

Indicate that drivers may turn after yielding to oncoming traffic. These turns are considered "permissive."

EFFICACY: COST: COMPLEXITY: CO

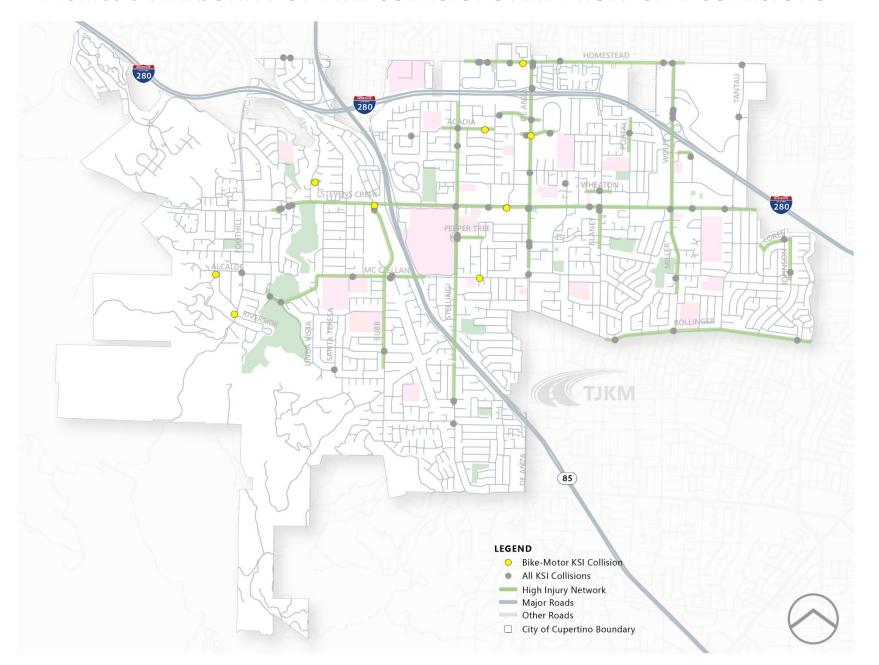


MIDBLOCK CROSSWALKS

Increases safety by decreasing random and unexpected pedestrian crossings

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:

Profiles 5: MAJORITY OF BIKE COLLISIONS ARE BROADSIDE COLLISIONS





PROTECTED BIKEWAYS

Segregated lanes shielded by flexible posts, parked cars, and planters for safe bicycle travel separate from vehicle traffic.

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



TWO-STAGE BICYCLE TURN BOX

Offers bicyclists a multi-stage process to safely and more visibly make a left turn

EFFICACY: COST: COMPLEXITY: COMPLEXITY:



BICYCLE SIGNAL

Prioritizes bicycle movements at intersections, separating them from conflicting motor vehicles

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



TURN CALMING PROGRAM

Basic or complete hardened centerlines for left turns and Slow Turn Wedges enforces safe turning practices

EFFICACY: ■□□

COST: ■□□

COMPLEXITY: ■□□



RIKE BOY

Safe and visible way to get ahead of queuing traffic during the red signal phase.

EFFICACY: ■□□
COST: ■□□
COMPLEXITY: ■□□

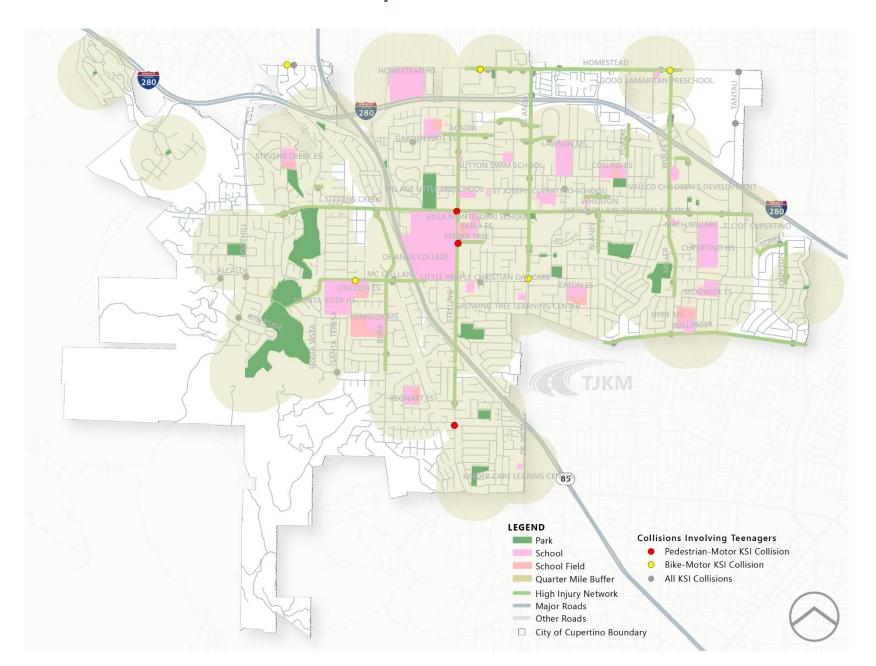


FLASHING YELLOW RIGHT TURN

Indicate that drivers may turn after yielding to oncoming traffic. These turns are considered "permissive."

EFFICACY: COST: COMPLEXITY: COMPLEXITY:

Profiles 6: TEENAGERS BIKING/WALKING NEAR SCHOOLS AND PARKS





SAFE ROUTES TO SCHOOL PROGRAM

Expand the Cupertino Safe Routes to School Program to include Vision Zero Training material for students, parents and teachers.

EFFICACY:
COST:
COMPLEXITY:



REDUCED SPEED SCHOOL ZONE

Reduction in speed limits in school zones reduces vehicular speeds and fatal and injury collisions

EFFICACY: ■■□
COST: ■□□
COMPLEXITY: ■□□



BICYCLE SIGNAL

Prioritizes bicycle movements at intersections, separating them from conflicting motor vehicles

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



PROTECTED BIKEWAYS

Segregated lanes shielded by flexible posts, parked cars, and planters for safe bicycle travel separate from vehicle traffic.

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



FLASHING YELLOW RIGHT TURN

Indicate that drivers may turn after yielding to oncoming traffic. These turns are considered "permissive."

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:

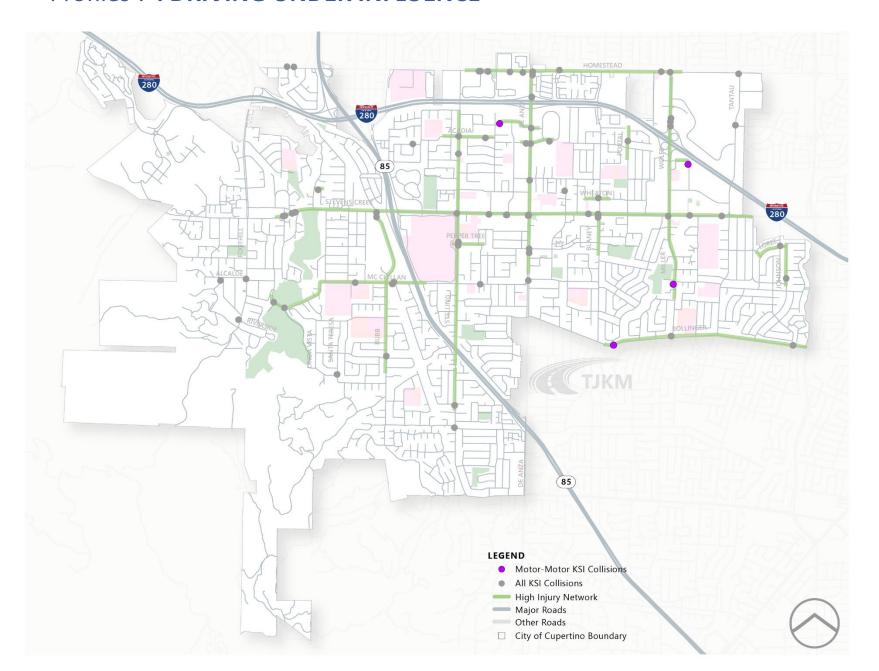


HIGH VISIBILITY ENFORCEMENT

Concentrate enforcement activities in areas of Cupertino where engineering and educational initiatives have already been implemented.

EFFICACY:
COST:
COMPLEXITY:

Profiles 7: DRIVING UNDER INFLUENCE





ALCOHOL USE DISORDER (AUD) ASSESSMENT & TREATMENT PROGRAMS

Long-term, tailored, and specialized treatment programs can serve as an intervention

EFFICACY:



HIGH VISIBILITY ENFORCEMENT

Concentrate enforcement activities in areas of Cupertino where engineering and educational initiatives have already been implemented.

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



EDUCATIONAL CAMPAIGN

Work together with community organizations to distribute materials to promote

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



VEHICLE SPEED FEEDBACK SIGN

Radar-based vehicle speed feedback signs promote safer streets by improving drivers' speed compliance through LED displays.

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:

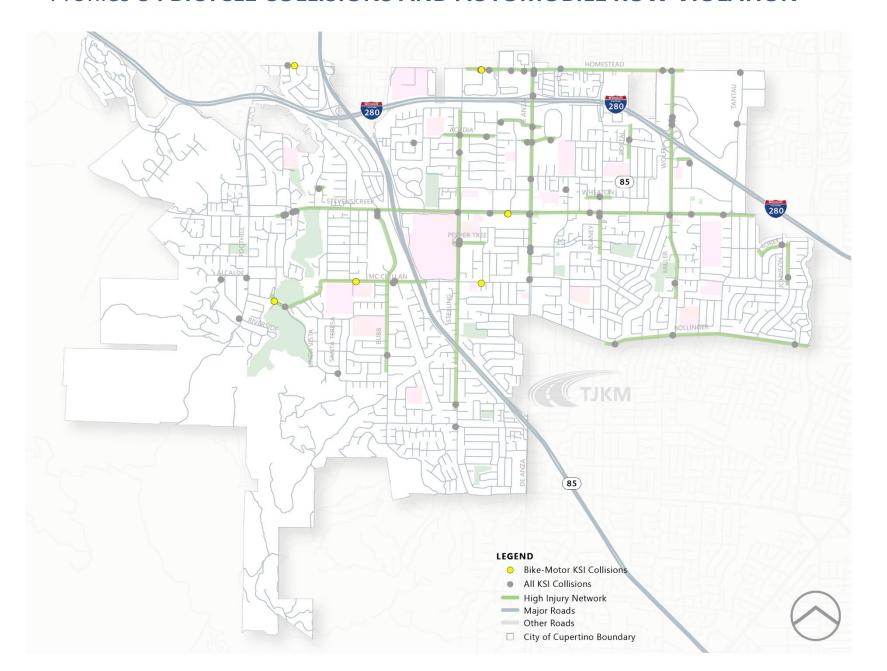


EDUCATIONAL INITIATIVES OVER CITATIONS

Prioritize educational initiatives while issuing citations during traffic enforcement

EFFICACY: ■□□
COST: ■□□
COMPLEXITY: ■■□

Profiles 8: BICYCLE COLLISIONS AND AUTOMOBILE ROW VIOLATION





PROTECTED BIKEWAYS

Segregated lanes shielded by flexible posts, parked cars, and planters for safe bicycle travel separate from vehicle traffic.

EFFICACY: COST: COMPLEXITY: CO



TWO-STAGE BICYCLE TURN BOX

Offers bicyclists a multi-stage process to safely and more visibly make a left turn

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



ROUNDABOUTS

Proven safety countermeasure that reduces speeds and crash potential while better serving all roadway users

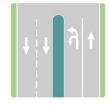
EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



RED LIGHT VIOLATION CAMERAS

Used to automate enforcement efforts in locations where traffic stops violations occur

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:

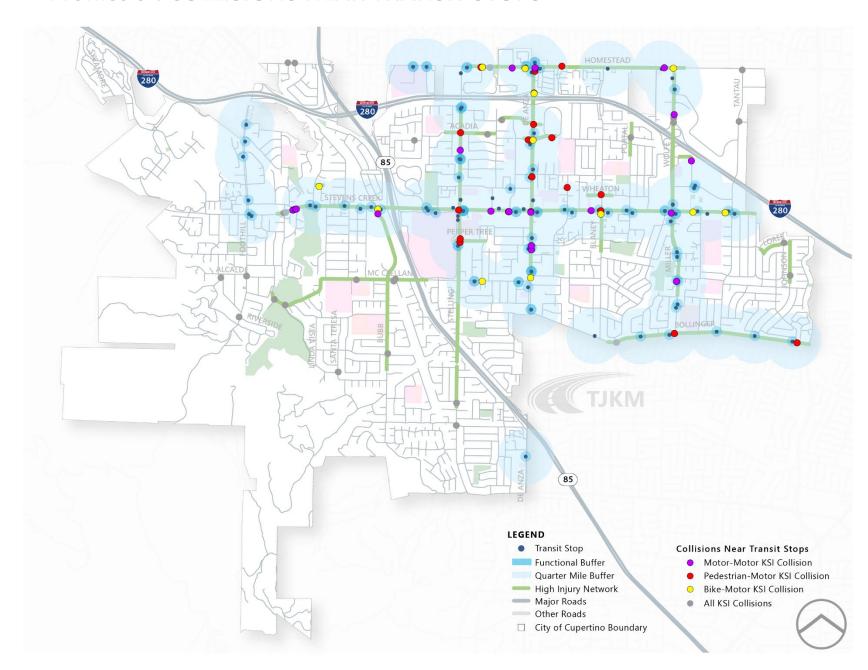


RAISED MEDIANS

Provides a physical barrier between opposing traffic lanes and restricts illegal turns and helps reduce collisions

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:

Profiles 9 : COLLISIONS NEAR TRANSIT STOPS





PROTECTED BIKEWAYS

Segregated lanes shielded by flexible posts, parked cars, and planters for safe bicycle travel separate from vehicle traffic.

EFFICACY:
COST:
COMPLEXITY:
COMPLEXITY:



MARKED CROSSWALKS

Effectively decrease the occurrence of collisions along high risk corridors

EFFICACY: ■■□
COST: ■■□
COMPLEXITY: ■□□



PEDESTRIAN HYBRID BEACON

Warn and control traffic at unsignalized intersections while providing instantaneous service with less delay

EFFICACY: ■■□
COST: ■■■
COMPLEXITY: ■■□



RECTANGULAR RAPID FLASHING BEACON

Offers pedestrians and bicyclists a clear path to cross the street more safely.

EFFICACY: ■■□
COST: ■■□
COMPLEXITY: ■□□

VISION ZERO PROGRAM: STRATEGIES AND ASSESSMENT

No.	Safety Strategy	Timeline	City Resources	
Vision Zero Program Initiative				
A.I	Vision Zero Task Force	Short-term	Low	
A.2	Dedicated and Permanent Funding	Short-term	Medium to High	
A.3	Media Workshop	Short-term	Low	
Promotion and Integration				
A.4	Public Meeting	Short-Term	Low	
A.5	Online Collision Map	Medium-Term	Medium	
A.6	Future Plans	Continuous	Low	
Data Collection & Program Evaluation				
A.7	Program Monitoring	Medium-Term	Medium	
A.8	Collision Report Training	Long-Term	Low	
A.9	Data Completeness	Medium-Term	Low	
A.10	Bicycle and Pedestrian Count Data	Medium-Term	Medium	



ENHANCING STREET LAYOUT AND MANAGEMENT

No	Safety Strategy	Timeline	City Resources	
High Injury Network Infrastructure				
B.I	Priority Location	Medium-Term	High	
B.2	List Prioritized Project	Medium-Term	Medium	
B.3	Low-Cost Improvements	Medium-Term	Medium	
B.4	Stakeholder Engagement	Medium-Term	Low	
Operations and Technology				
B.5	Signal Timing Updates	Short-Term	Medium	
B.6	Intelligent Transportation Systems (ITS)	Long-Term	High	
Policies and Design				
B.7	Design Review	Long-Term	Low	
B.8	Complete Streets	Medium-Term	Low	



CULTIVATING A POSITIVE ROAD USER BEHAVIOR

No	Safety Strategy	Timeline	City Resources	
Education and Outreach				
C.I	Education Campaign	Medium-Term	High	
C.2	Speed Feedback Signs	Medium-Term	Medium	
C.3	Targeted Outreach	Medium-Term	Medium	
Enforcement				
C.4	Police Academy	Short-Term	Low	
Providing Alternatives to Driving				
C.5	Subsidized Transit	Medium-Term	Medium	
C.6	Late-Night Options	Long-Term	Medium	
C.7	Curbside Management	Medium-Term	Medium	



VULNERABLE ROAD USERS

No	Safety Strategy	Timeline	City Resources	
Bicyclist and Pedestrian				
D.I	Bicycle Network	Ongoing	High	
D.2	Pedestrian Crossing	Medium-Term	High	
D.3	Turning Vehicles at Intersections	Long-Term	High	
Children and Seniors				
D.4	High-Visibility Crosswalk	Medium-Term	Medium	
D.5	Senior Awareness	Medium-Term	Medium	
D.6	Traffic Education for Safe Routes to School	Medium-Term	Medium	



TRANSPORTATION TECHNOLOGY

INTERSECTION
SAFETY STRATEGIES

POST CRASH RESPONSE STRATEGIES PROACTIVE SAFETY
ANALYSIS
STRATEGIES

CITY OF CUPERTINO'S LEADERSHIP STRATEGIES

PARTNERSHIP WITH VTA

FINE-GRAINED URBAN TRANSPORTATION STRATEGIES

LEGISLATION AND ORDINANCE

- Bicycle and Pedestrian Detection
- Wayfinding and Orientation Assistance Devices
- Accessible
 Pedestrian
 Signals with
 Custom Speech
 Messages

- Next-Generation Emergency Vehicle Preemption
- Technology and Training for Crash Detail Recording
- Dynamic Traffic Rerouting

- Automated Speed Data Collection
- Signal System
 Enhancement for
 Red Light
 Detection
- Near-Miss Traffic Incident Identification Systems

- Requirement for Latest Crash Reduction Tech in City Fleet
- Right-sizing City-Owned Vehicles with Safety Tech
- Equipping City Fleet Vehicles with Safety Devices

- Evaluation of Transit Priority Treatments
- Implementation of New Transit Vehicle Engineering Principles
- Provision of Protected Crossings for Transit Patrons

- Integration of Autonomous Vehicles, Micro Mobility, Drones
- Vehicle-to-Vehicle (V2V)
 and Vehicle-to-Infrastructure
 (V2I)
 Interconnection
- Collaboration with Tech Companies for Autonomous Vehicle Testing

Enactment of
Ordinances
Balancing Tech
Needs and
Societal
Expectations



EDUCATIONAL PROGRAMS

- Safe routes to school
- Americans with disabilities act engagement
- Walking/cycling/transit field days
- Community walking audits
- Medical services providers
- Improving access to transit















TRAFFIC ENFORCEMENT PROGRAMS

- High visibility enforcement
- Traffic violators school
- Red light violation cameras
- Traffic safety diversion program
- Publicized sobriety checkpoints
- High visibility saturation patrols





PARTNERSHIP

- Collaboration with nearby cities
- Public health and medical institution
- Private sector engagement
- Advocacy for safer delivery vehicles
- Traffic safety education in schools
- Community and school ambassador programs





CONTINUOUS DATA COLLECTION

- Annual collision analysis and reporting
- Online dashboard platform
- High injury network map
- Complete injury and fatality reporting





VISION ZERO & GENERAL PLAN UPDATE

CHAPTER 1 – INTRODUCTION

 Propose removing the sentence accepting crashes as inevitable and emphasize the integration of Vision Zero principles into guiding principles.

CHAPTER 3 – LAND USE AND COMMUNITY DESIGN

 Integrate Vision Zero into the chapter's policies, especially Policy LU-1.1, recognizing the link between public health, street safety, and quality of life.

CHAPTER 5 – MOBILITY ELEMENT

 Recommend adopting a "desired operating speed" methodology and designing streets to a people-centric scale to promote sustained change and walkability.

CHAPTER 6 – ENVIRONMENTAL RESOURCES AND SUSTAINABILITY

 Include language supporting sustainability aspects, such as softening streets through landscaping and bioswales, with a focus on Vision Zero principles.

CHAPTER 7 – HEALTH AND SAFETY

 Expand the chapter to include traffic crashes and Vision Zero principles, citing examples like Carmel, Indiana, and emphasizing sustainable approaches to health





HOW TO GET INVOLVED

- > Task a driving education class
- Pledge to not text
- > Install anti-texting software on phone
- > Observe rules of road when driving
- > Bicycling etiquette
- > Be an alert pedestrian
- > Safe routes for all







NEXT STEPS

Finalize Vision Zero Action Plan





THANK YOU!

CITY OF CUPERTINO

