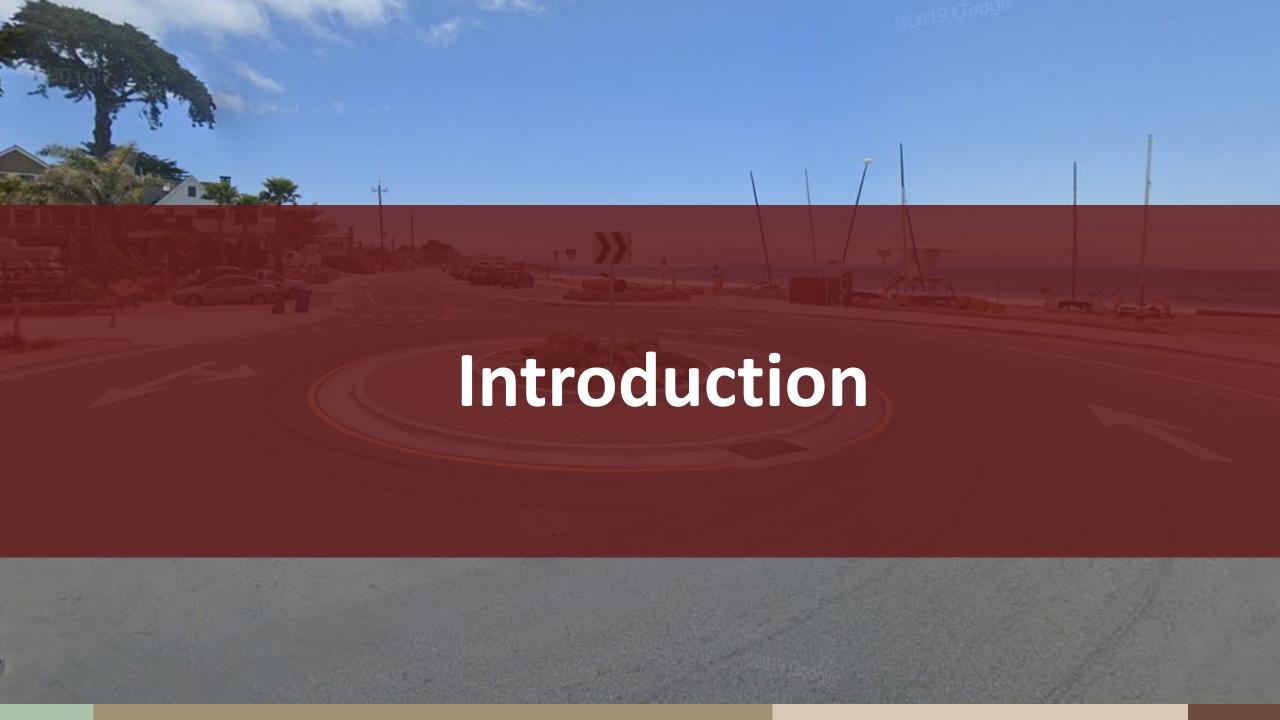


Agenda

- Introductions
- What is a Local Road Safety Plan (LRSP?)
- LRSP Process
- Your Role as a Safety Champion
- Preliminary Collision Analysis Findings
- Emphasis Areas
- Project Website and Interactive Map Input Walk-Through
- Discussion
- Next Steps





What is a Local Road Safety Plan (LRSP)?

Goals:

- Identify locations with highest concentration of vehicular collisions
- Identify location with higher concentration of bicycle and pedestrian collisions

Objectives:

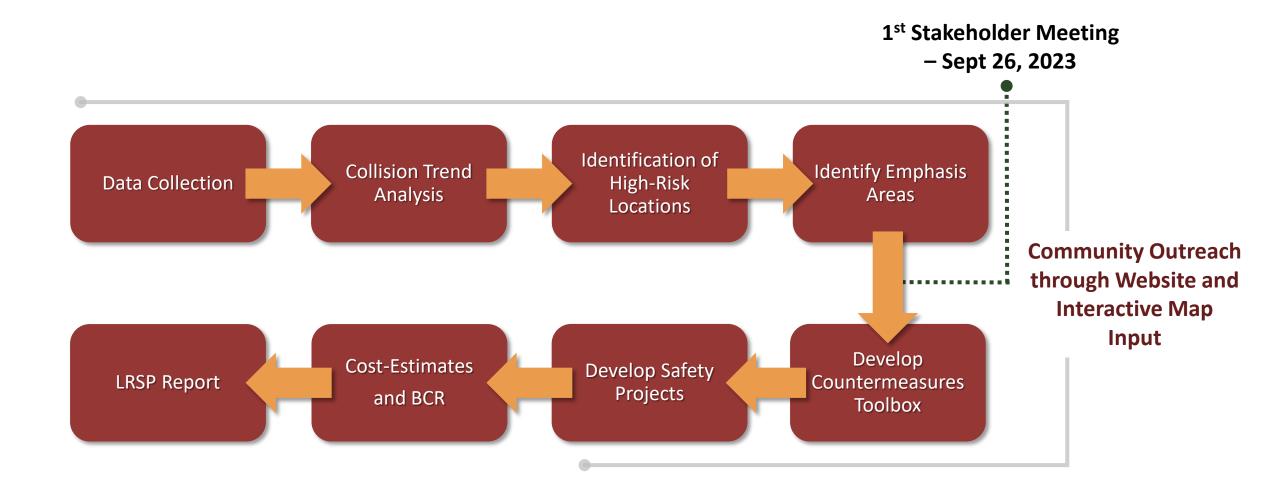
- Identify major contributing factors to crashes and define priority locations for roadway safety improvements
- Identify cost-effective countermeasures and safety investments that can be applied systemically
- Create an LRSP document to capitalize on established safety initiatives and identify other strategies to prioritize safety investments
- Document proposed countermeasures, implementation considerations, and benefit/cost for priority locations identified through this study to aid in the evaluation and preparation of grant applications

Considers engineering and non-engineering strategies:

• 5 E's of Traffic Safety: Education, Enforcement, Engineering, Emergency Medical Services (EMS), and Equity

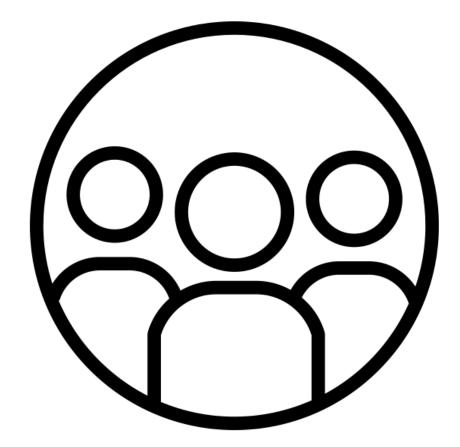


LRSP Process



Your Role as a Safety Champion!

- Comment on the presentation
- Tell us about your traffic safety related issues or concerns
- Tell us what you heard from the members of the community
- Share with us any ideas for programs/safety measures under the E categories (Education, Enforcement, Engineering, EMS, and Equity)
- Report your concerns in a map-based survey at https://www.SantaCruzCountySafeStreets.com/
- Share the survey with everyone
- Stay informed about the project!



The 5 E's of Traffic Safety

Education

Conduct focused public information and education campaigns

Create pocket guides and informational fliers with pedestrian laws, stop sign violations, etc.

Safe Routes to School education programs

Consideration of impact of collisions on disadvantaged communities

Equity

Enforcement

Targeted enforcement at high risk intersections

Place high priority on enforcement of violation type that contribute to the most fatalities and severe injuries

Improve deployment to collision sites

Ensure emergency routes are defined and clear

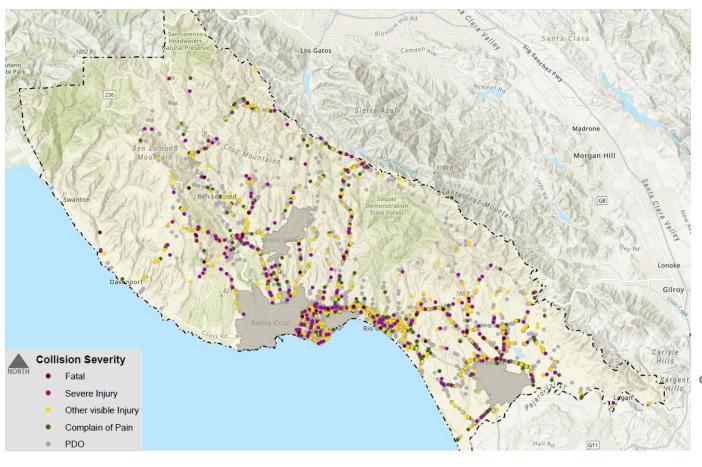
Emergency
Medical Services
(EMS)

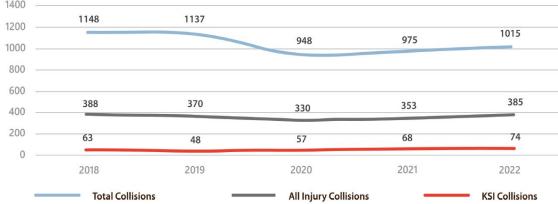
Engineering

HSIP eligible countermeasures

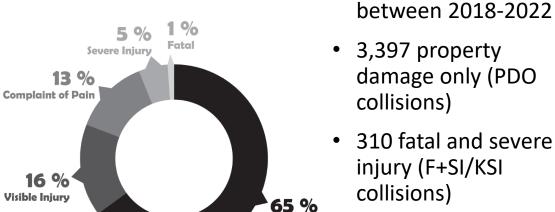
E.g.: Improve intersection lighting, install median refuge island, install bulb outs, improving signs and striping

Collision Analysis Findings





• 5,223 collisions



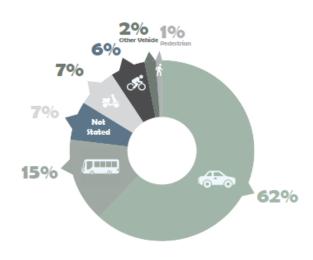
Property Damage

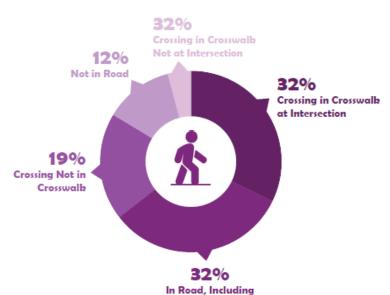
Injury Collision Analysis Findings

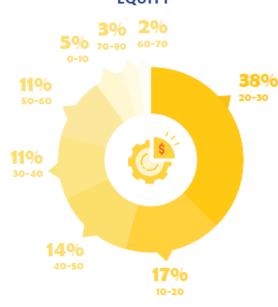
VEHICLE AT FAULT









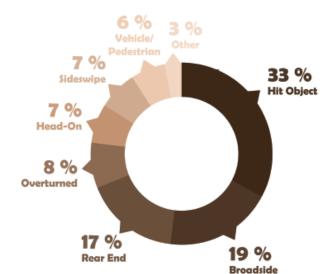


MOVEMENT PRECEDING CRASH

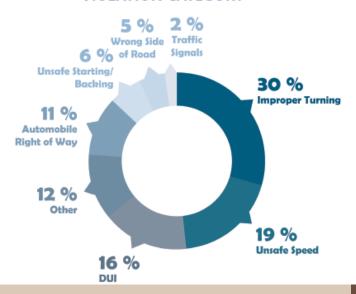
3% 3% Entering 2% Slowing/ Stopping Traffic Changing Lanes 4% **Making Right Turn** 5% **Crossed Into** Opposing Lanes Others* 6% 33 % Proceeding 10% Straight Other Unsafe Turning 11 % **Making Left Turn** 23 %

Ran Off Road





VIOLATION CATEGORY



Equivalent Property Damage Only (EPDO) Score

Collision Severity	EPDO Score
Fatal and Severe Injury Combined	165
Visible Injury	11
Complaint of Pain	6
Property Damage Only (PDO)	1

EPDO Score =

(165 x # of Fatal Collisions) +

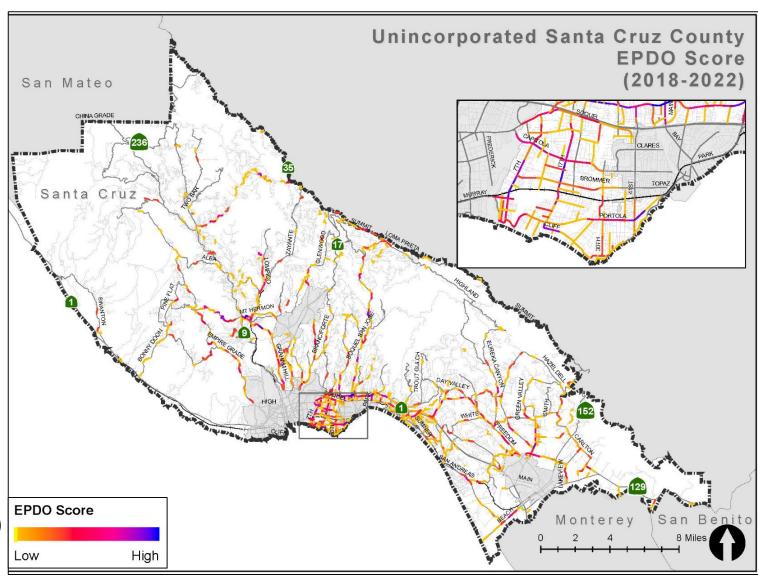
(165 x # of Severe Injury Collisions) +

(11 x # of Other Visible Injury Collisions) +

(6 x # of Complaint of Pain Collisions) +

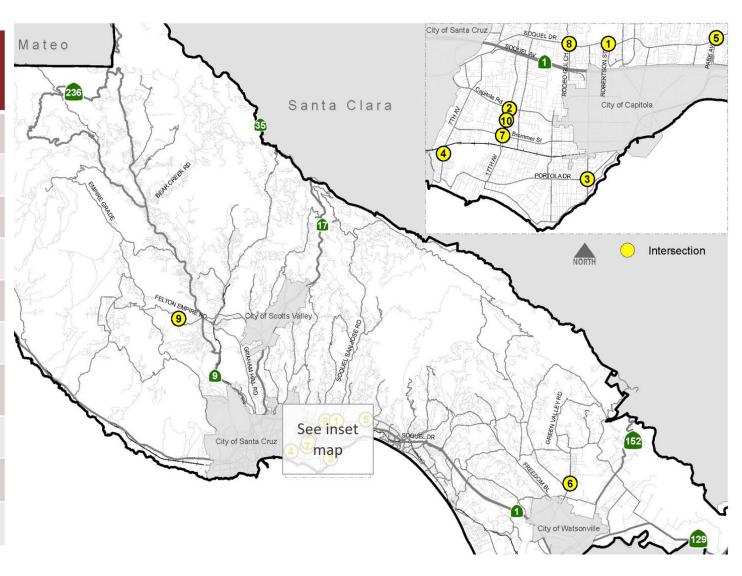
(1 x # of PDO Collisions)

(Source: Local Roadway Safety Manual 2022, Caltrans)



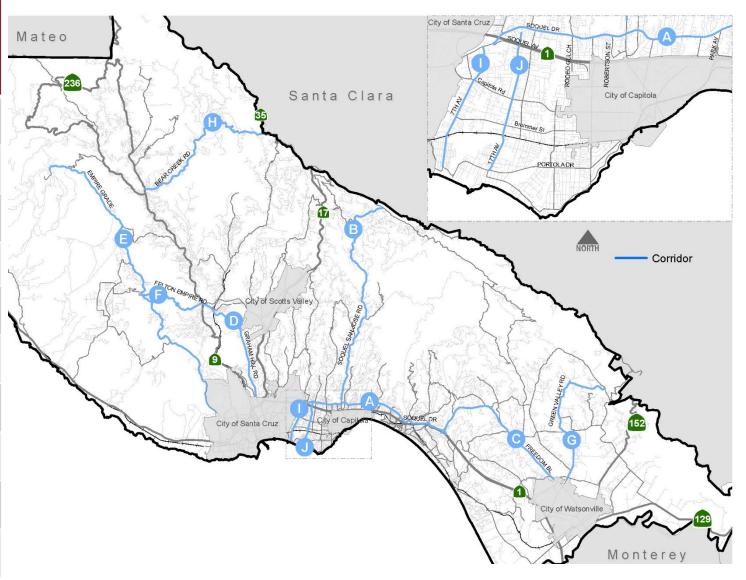
High-Injury Intersections

ID	Intersection	Total Injury Collisions	KSI Collisions	Severity Weight
1	Soquel Dr and Robertson St	13	3	570
2	Capitola Rd and 17th Ave	12	3	564
3	41st Ave and Portola Dr	10	3	562
4	Eaton St and 7th Ave	9	3	546
5	Park Ave and Soquel Dr	10	2	398
6	Green Valley Rd and Dick Phelps Rd	8	2	386
7	17th Ave and Brommer St	8	2	381
8	Soquel Dr and N Rodeo Gulch Rd	8	2	381
9	Felton Empire Rd and Krazy Acre Ln	6	2	369
10	17th Ave and Harper St	7	2	365



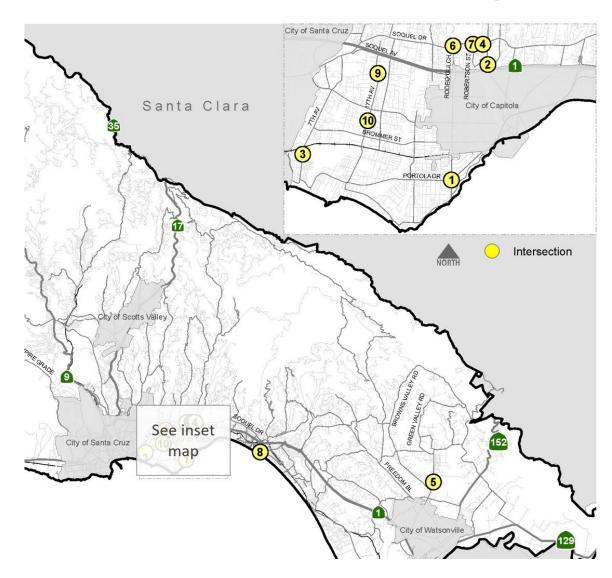
High-Injury Corridors

ID	Corridor	Total Injury Collisions	Length (miles)	Severity Weight
Α	Soquel Dr: Soquel Avenue to Freedom Blvd	180	7.5	4903
В	Soquel San Jose Rd: Paper Mill Rd to Summit Rd	65	11	2627
С	Freedom Blvd: Bonita Dr to Buena Vista Dr	74	7.3	2517
D	Graham Hill Rd: SR-9 to Corday Ln	60	5.5	2408
E	Empire Grade Rd: Bertoli Dr to Santa Cruz City Limit	43	14.8	2132
F	Felton Empire Rd: Empire Grade Rd to SR-9	34	3.7	1879
G	Green Valley Rd: Hazel Dell Rd to Holohan Rd	57	7	1749
н	Bear Creek Rd: SR-9 to Summit Rd	46	10	1653
1	7 th Ave: Soquel Ave to E Cliff Dr	31	1.6	1190
J	17 th Ave: Soquel Dr to Portola Dr	25	6	1.6



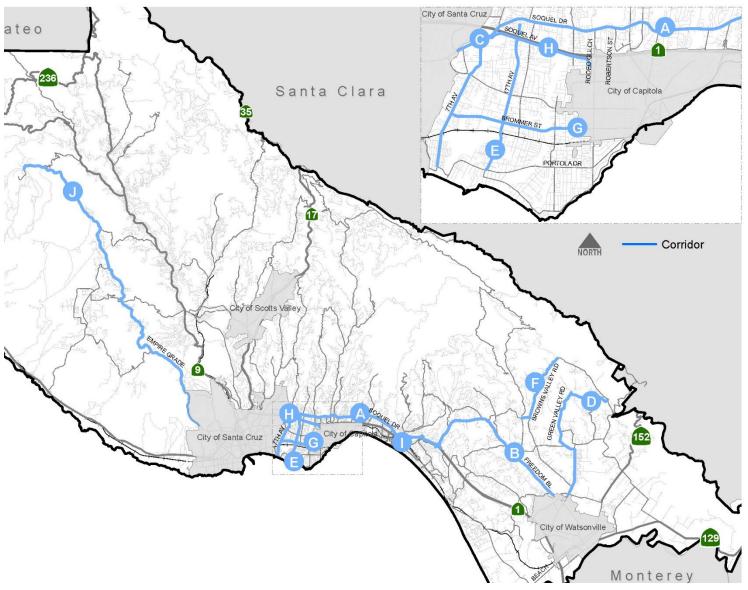
High-Injury Intersections – Pedestrian & Bicycle

ID	Intersection	Total Injury Collisions	KSI Collisions	Severity Weight
1	Portola Dr and 41st St	4	2	352
2	Portar St and Main St	2	2	330
3	Eaton St and 7th Ave	2	2	330
4	Daubenbiss Ave and Soquel Dr	4	1	198
5	Green Valley Rd and Minto Rd	3	1	187
6	Soquel Dr and 41st Ave	3	1	187
7	Robertson St and Soquel Dr	3	1	182
8	Aptos Beach Dr, Rio Del Mar Blvd, Venetian Rd, Esplanade	3	1	182
9	17th Ave and Rodriguez St	3	1	177
10	17th Ave and Harper St	3	1	177



High-Injury Corridors – Pedestrian & Bicycle

ID	Corridor	Total Injury Collisions	Length (miles)	Severity Weight
A	Soquel Dr: Soquel Avenue to Freedom Blvd	53	7.5	2053
В	Freedom Blvd: Bonita Dr to Buena Vista Dr	8	7.3	704
С	7 th Ave: Soquel Ave to E Cliff Dr	8	1.6	699
D	Green Valley Rd: Hazel Dell Rd to Holohan Rd	7	7	693
E	17 th Ave: Soquel Dr to Portola Dr	7	1.6	683
F	Browns Valley Rd: Redwood Rd to Corralitos Rd	3	3.4	495
G	Brommer St: 7 th Ave to Bulb Ave	6	1.5	364
н	Soquel Ave: La Fonda Ave to Gross Rd	5	1.8	363
1	Aptos Beach Dr: Rio Del Mar Blvd to Esplanade	3	0.7	341
J	Empire Grade Rd: Bertoli Dr to Santa Cruz City Limit	3	14.8	341



Top Emphasis Areas

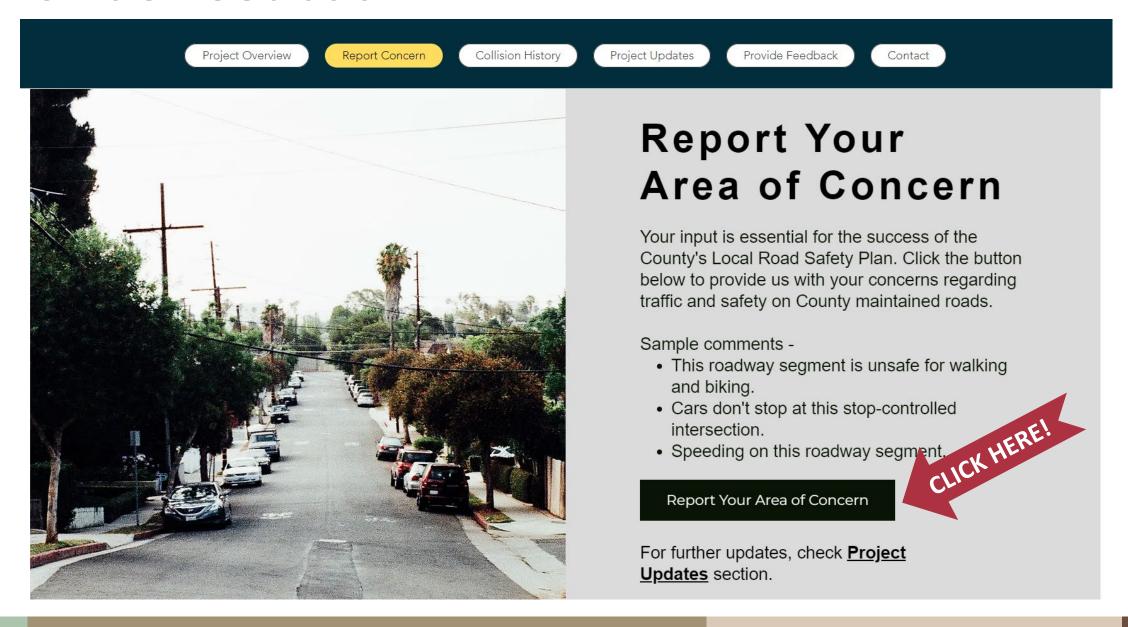
- Address Intersection Collisions
- Address Roadway Segment Collisions
- Address Hit Object Collisions
- Address Broadside Collisions
- Address Rear-end Collisions
- Address Unsafe Speed Violations
- Address Improper Turning Violations
- Address DUI Collisions
- Address Automobile Right of Way Violations
- Address Nighttime Collisions
- Address Pedestrian Collisions
- Address Bicycle Collisions
- Address Collisions involving Young Adults (Age 20-29)

Objective:					
Reduce the number of KSI collisions at intersections.					
	Strategy	Performance Measure	Agencies/ Organizations		
Education	Conduct public information and education campaign for intersection safety laws regarding traffic signals, stop signs, and turning left or right.	Number of education campaigns or residents reached.	County/Sheriff Department		
Enforcement	Targeted enforcement at high-injury intersections to monitor right-of-way violations, speed limit laws and other violations that occur at intersections.	Decrease in number of citations and/or warnings issued over time due to increased driver compliance.	Sheriff Department		
Engineering	 S02, Improve signal hardware: lenses, back-plates with retroreflective borders, mounting, size, and number S03, Improve signal timing S08, Convert signal to mast arm (from pedestal-mounted) S09, Install raised pavement markers S16/NS04/NS05, Convert intersection to roundabout NS06, Install/upgrade larger or additional stop signs or other intersection warning/regulatory signs NS07, Upgrade intersection pavement markings NS08, Install Flashing Beacons at Stop-Controlled Intersections NS09, Install flashing beacons as advance warning (Non-Signalized Intersection) (NS.I.) NS10, Install transverse rumble strips on approaches NS11, Improve sight distance to intersection (Clear Sight Triangles) NS13, Install splitter-islands on the minor road approaches NS14, Install raised median on approaches NS19PB, Install raised medians (refuge islands) Automated Red-light Enforcement 	Number of locations improved.	County		
EMS	S05, Install emergency vehicle pre-emption systems Improve resource of deployment for emergency responses to collision sites. Ensure emergency routes are clear and well defined	EMS vehicle response time.	County/Fire Department & EMS Response Teams		

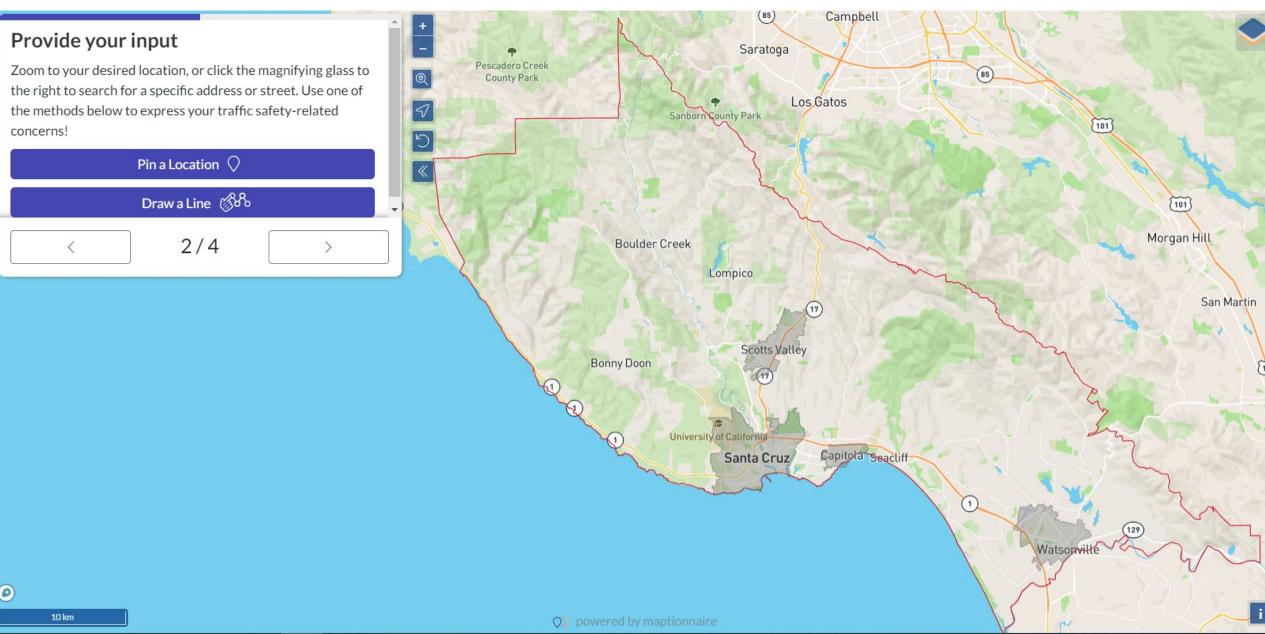
Project Website is Live!

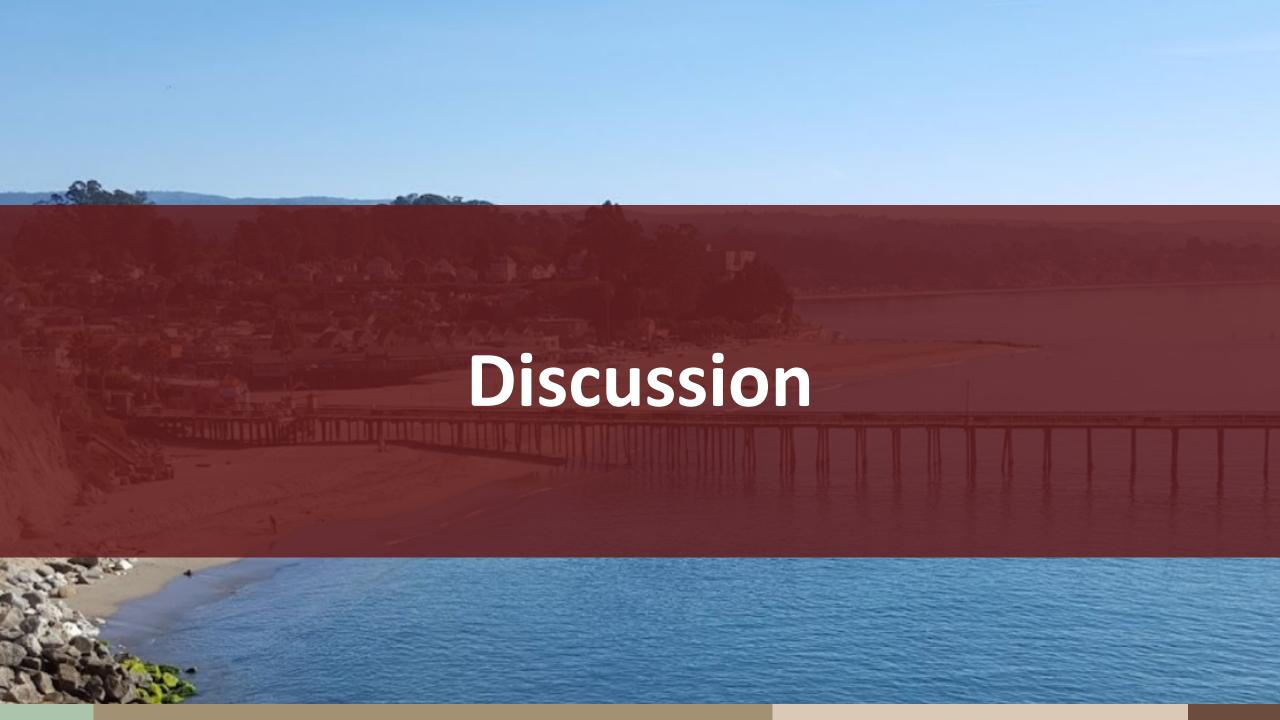


Provide Feedback



Tell us your concerns on the map!





Next Steps

- Summarize stakeholder and public input
- Identify and prioritize engineering countermeasures and nonengineering strategies
- Develop safety projects for all highinjury locations
- Stakeholder Meeting #2

