NVTA

VISION ZERO

Napa Valley Vision Zero Plan Progress Update

Napa Valley Transportation Authority

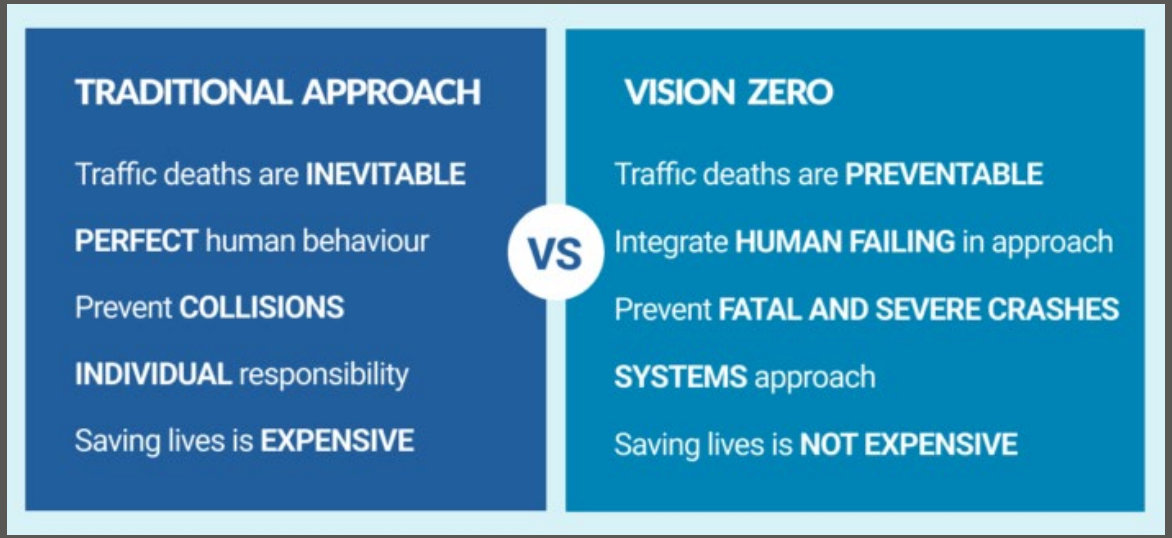
Board of Directors

Wednesday, March 15, 2023

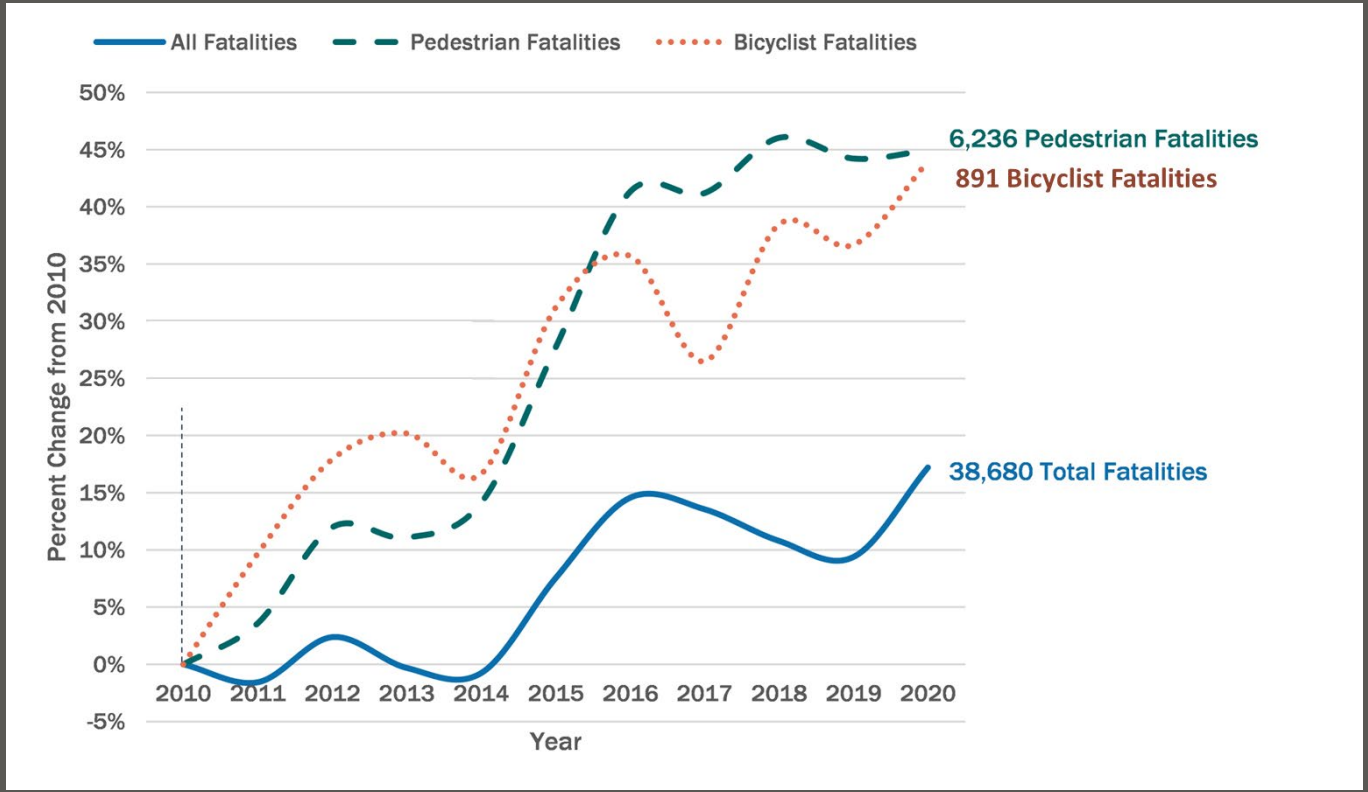
Overview of Vision Zero

"A New Vision for Safety"

The road system and related policies should be designed so that inevitable mistakes do not result in fatal or severe injuries



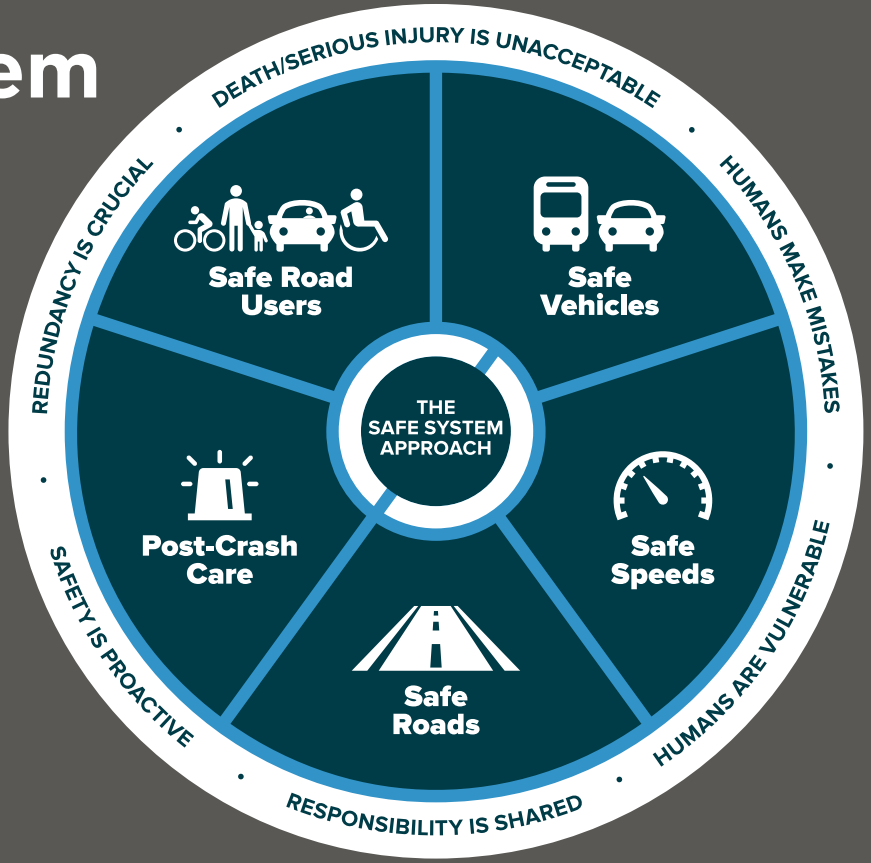
Overview of Vision Zero



The Safe System Approach

It involves a paradigm shift to improve safety culture, increase collaboration across all safety stakeholders, and refocus transportation system design and operation on anticipating human mistakes and lessening impact forces to reduce crash severity and save lives.

The Safe System Approach



PLAN COMPONENTS

What does a Vision Zero Plan Include?

- **Strategic Planning**
  Vision Statement and Goals
- **Partnerships**
  Develop internal partnerships
- **Engagement**
  Invite discussion with key stakeholders
- **Discussion of Existing Efforts**
- **Systematic and Data-Driven Analysis**
- **Strategies for Engineering, Education, and Enforcement**
- **Strategies for Evaluation and Implementation**
  (e.g. funding sources)
- **High-Injury Network (HIN) Identification**
- **Project Prioritization or Location-Specific Engineering Recommendations**

Funding Eligibility

Highway Safety Improvement Program (HSIP)

Cycle 11 Requirements: Completed* Local Roadway Safety Plan (LRSP) or an equivalent Systemic Safety Analysis Report (SSAR) or Vision Zero Action Plan

* Adoption by agency's Board or Council is strongly recommended

One Bay Area Grant (OBAG)

Adopt an LRSP, SSAR, or Vision Zero Action Plan by December 31, 2023

Safe Streets and Roads for All (SS4A)

Comprehensive Safety Action Plan**

** Must include an analysis of existing conditions and Killed or Severe Injury historical trends and locations, set of projects, strategies, and timeline to address the safety problems, project prioritization criteria, and a finalized plan between 2017-present

Funding Eligibility

Sustainable Transportation Planning Grant

Competitive applications include bike and pedestrian plans with a safety enhancement focus, including Vision Zero plans

Rebuilding American Infrastructure with Sustainability and Equity (RAISE)

Highly encourages to include data-driven analysis when addressing safety criterion

Recent Efforts

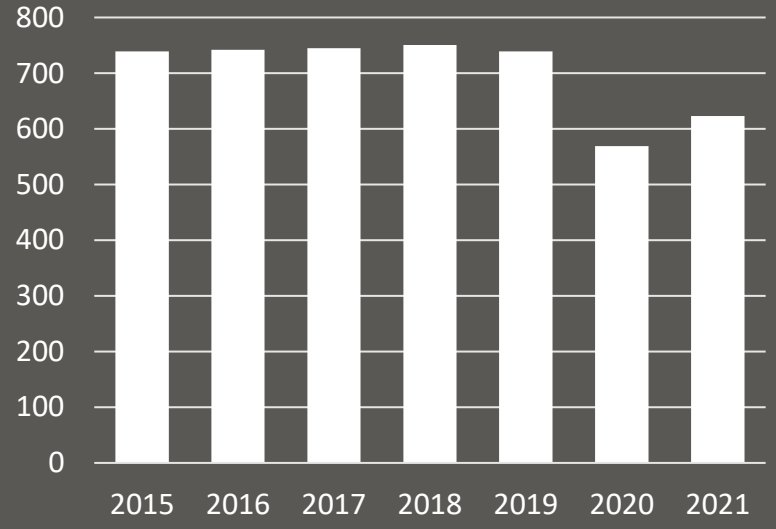
- Vision 2045, Advancing Mobility, Countywide Plan, 2021
- Napa Countywide Pedestrian Plan, 2016
- Napa Countywide Bicycle Plan, 2019
- SR 29 Comprehensive Multimodal Corridor Plan, 2020
- Napa County LRSP, 2022
- City of American Canyon LRSP, 2022
- City of Napa LRSP, 2022

Data Source

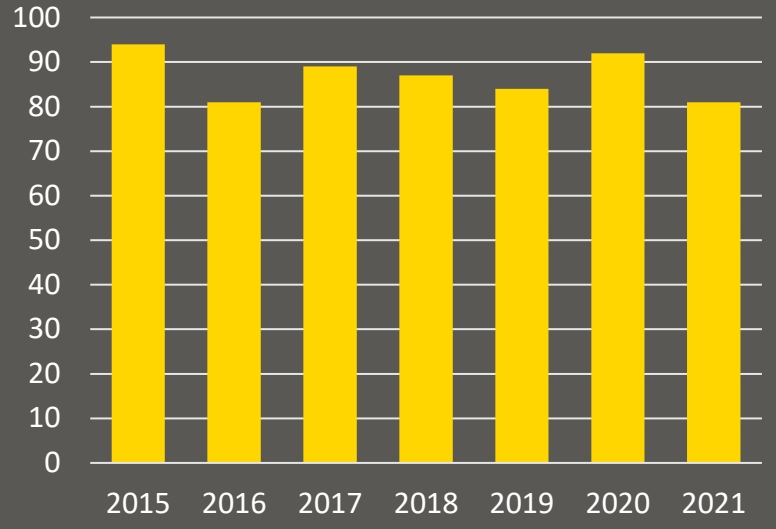
- Transportation Injury Mapping System (TIMS)
  - 2015-2021
  - Inclusive of fatal and injury collisions (Killed/Serious Injury (KSI)
  - Excludes Property Damage Only (PDO) collisions
  - Inclusive of all public roadways across the region except for any grade separated Caltrans facilities

PRELIMINARY COLLISION FINDINGS NAPA COUNTY

Trends Over Time

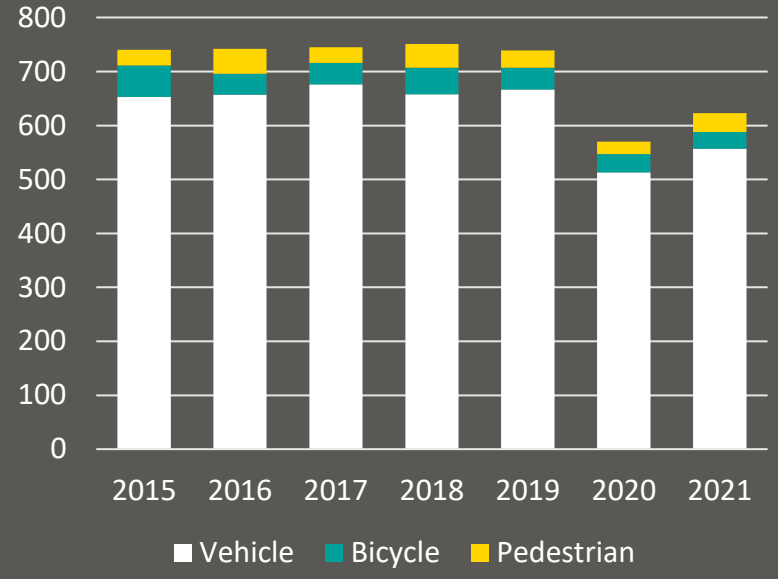


All Collisions



Killed or Severe Injury (KSI) Collisions

Modal Breakdowns



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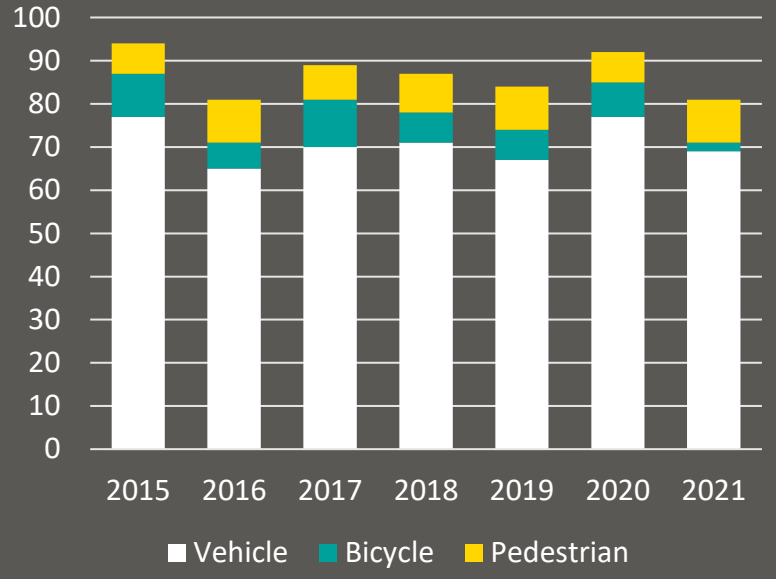
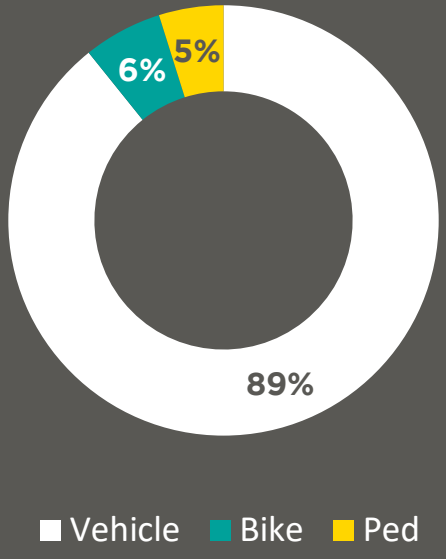


KSI Collisions

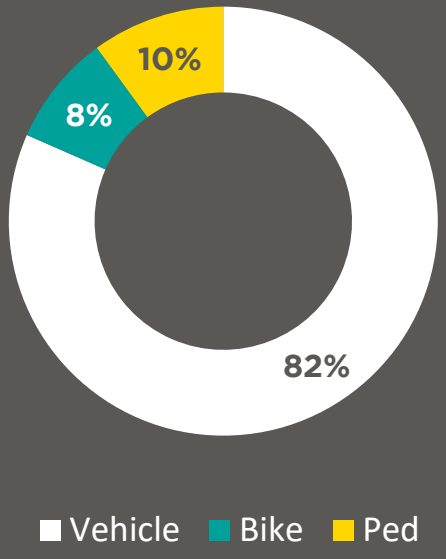
PRELIMINARY COLLISION FINDINGS
NAPA COUNTY

Modal Breakdowns

All Collisions

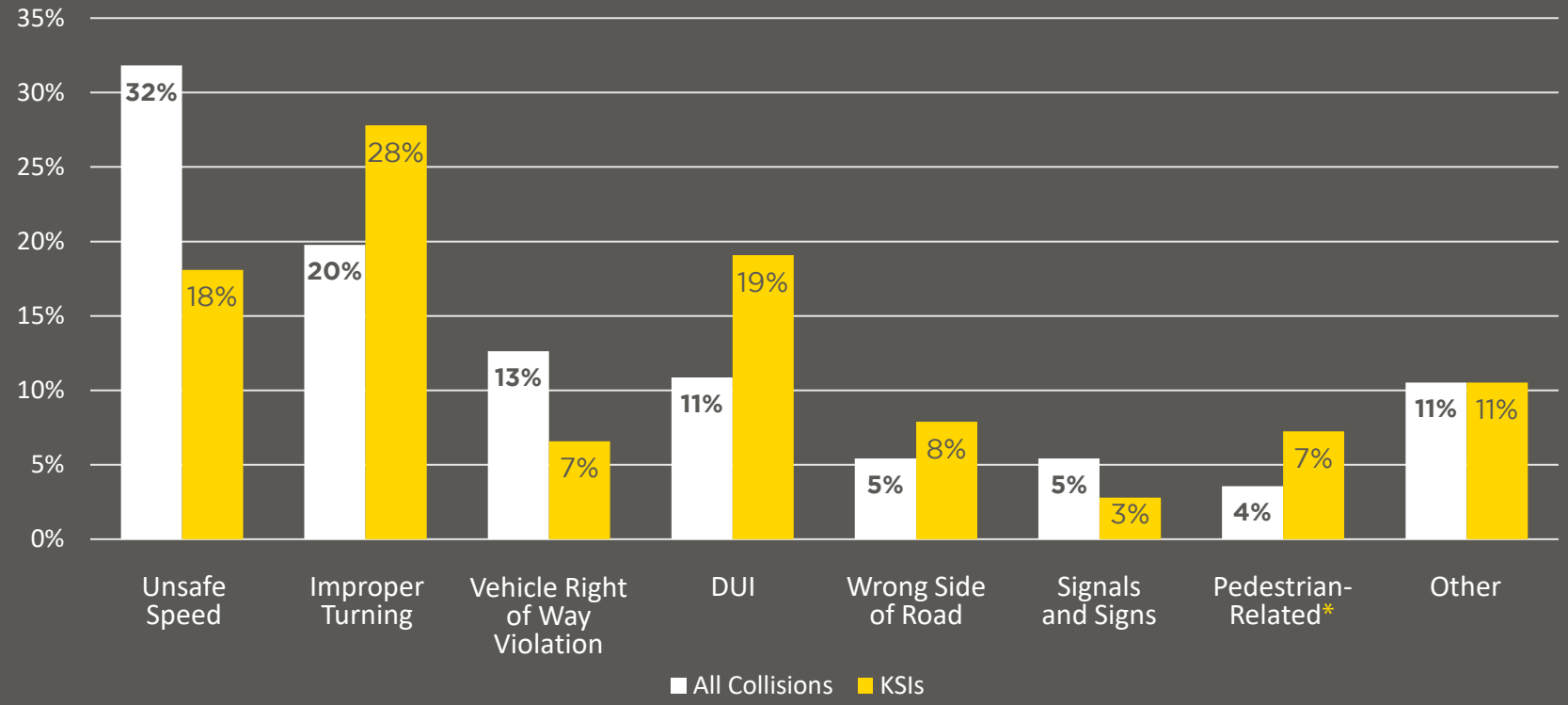


KSI Collisions



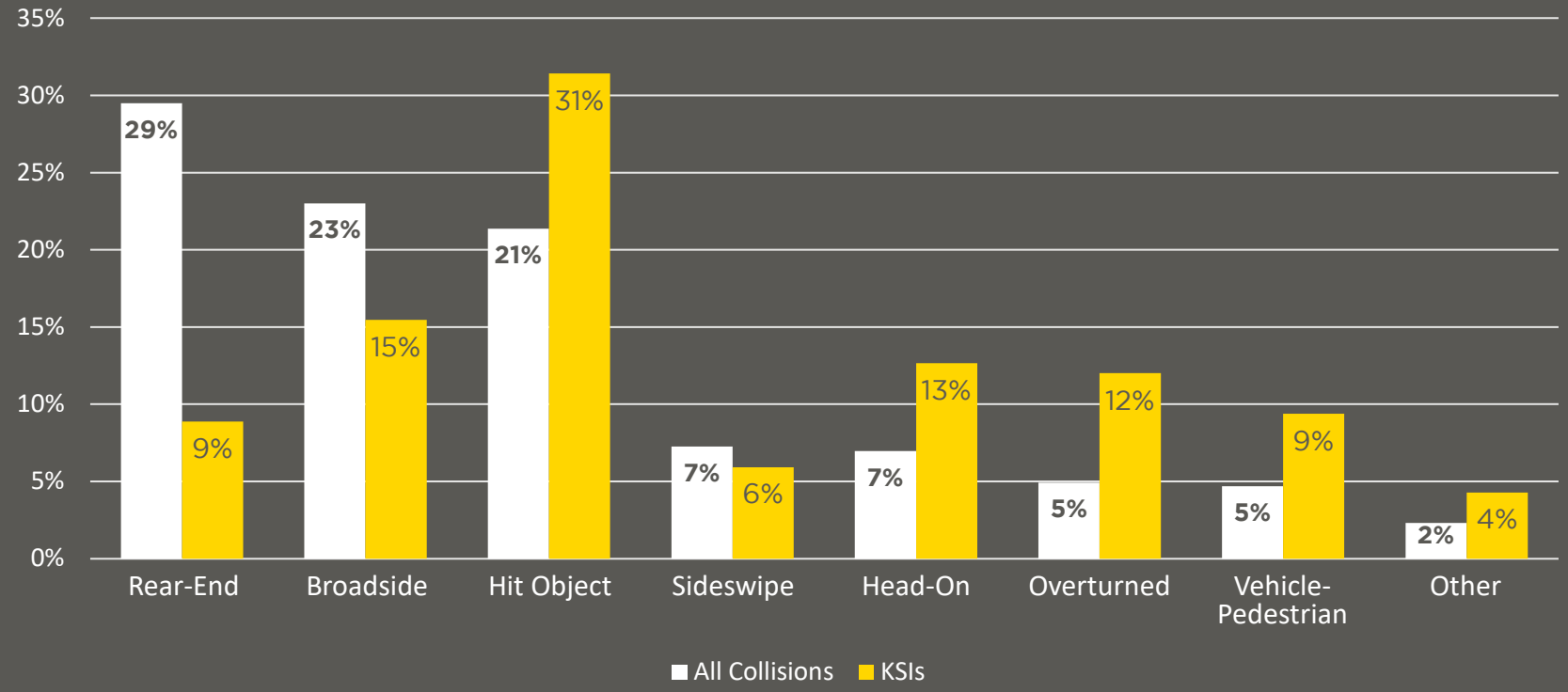
PRELIMINARY COLLISION FINDINGS NAPA COUNTY

Share of Collisions by Primary Collision Factor (PCF)



PRELIMINARY COLLISION FINDINGS NAPA COUNTY

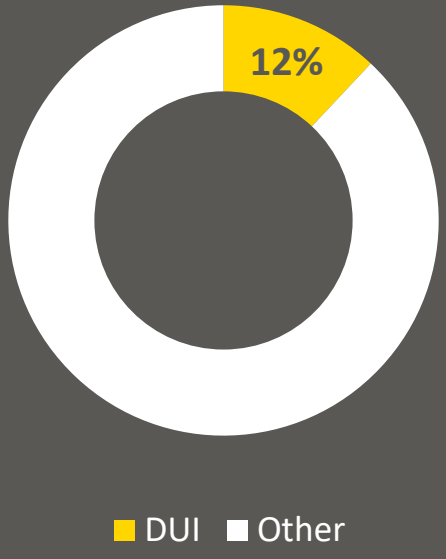
Share of Collisions by Collision Type



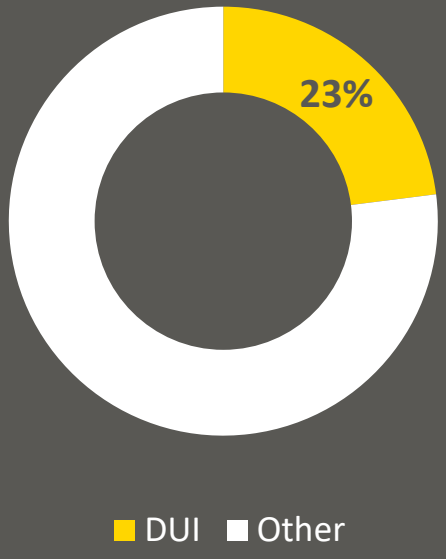
PRELIMINARY COLLISION FINDINGS NAPA COUNTY

Driving Under the Influence

All Collisions

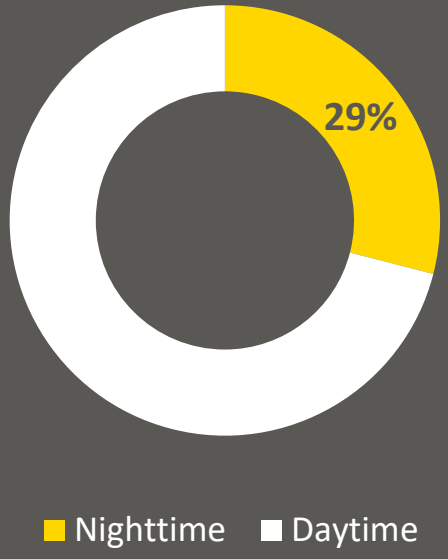


KSI Collisions

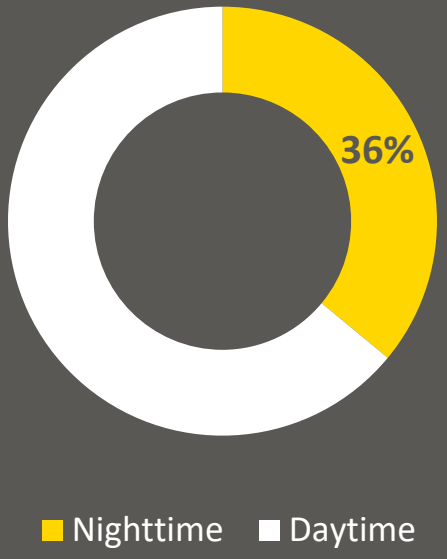


Collisions by Time of Day

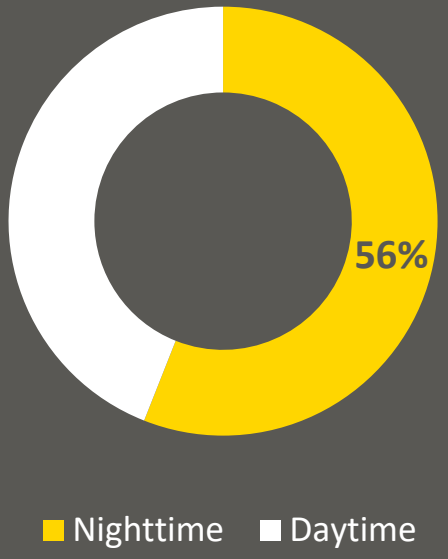
All Collisions



KSI Collisions

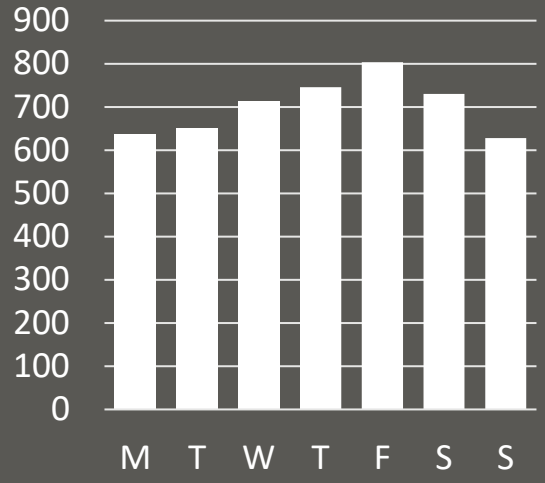


Pedestrian KSIs

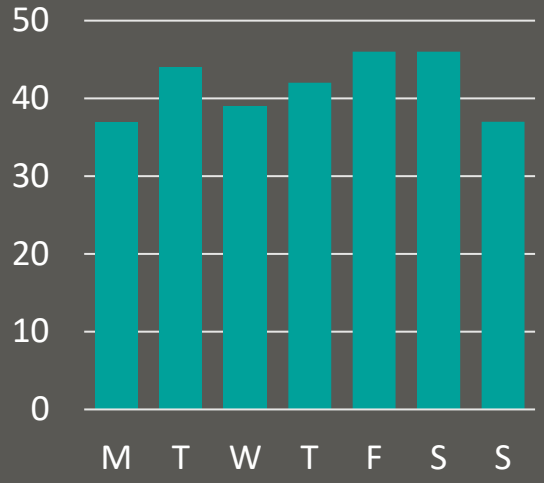


Collisions by Day of Week

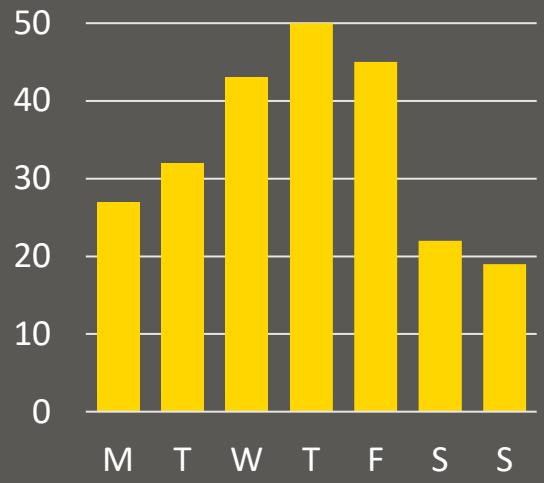
All Collisions



Bicycle Collisions

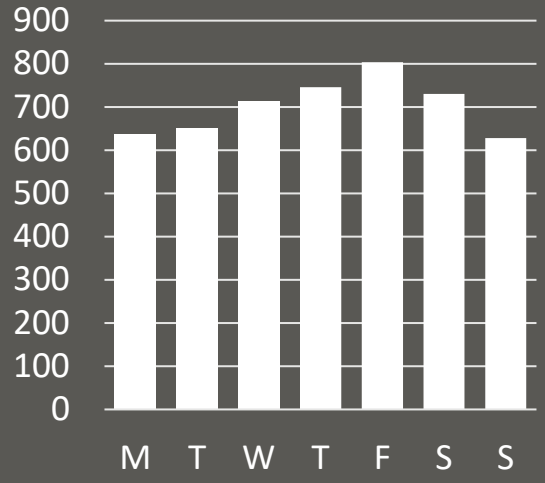


Pedestrian Collisions

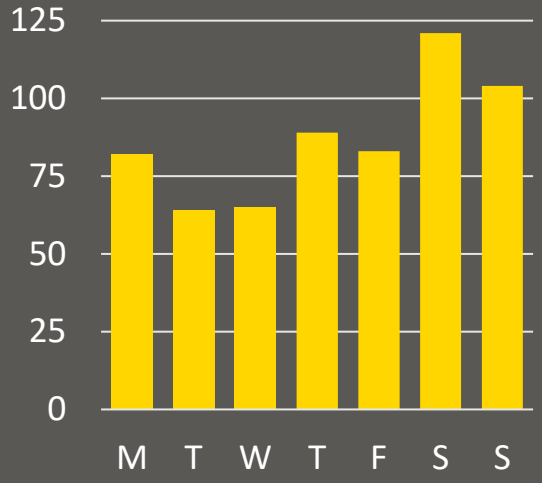


Collisions by Day of Week

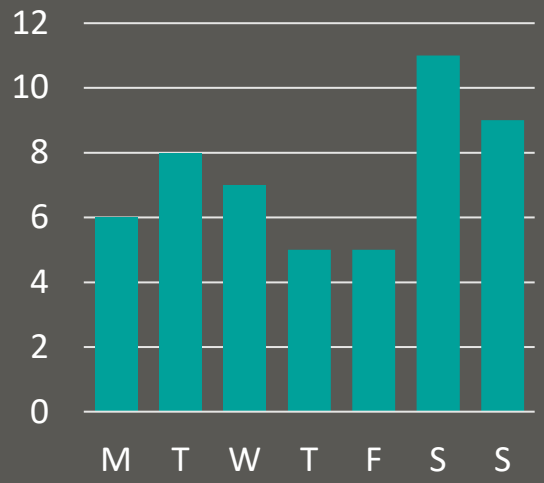
All Collisions



All KSIs



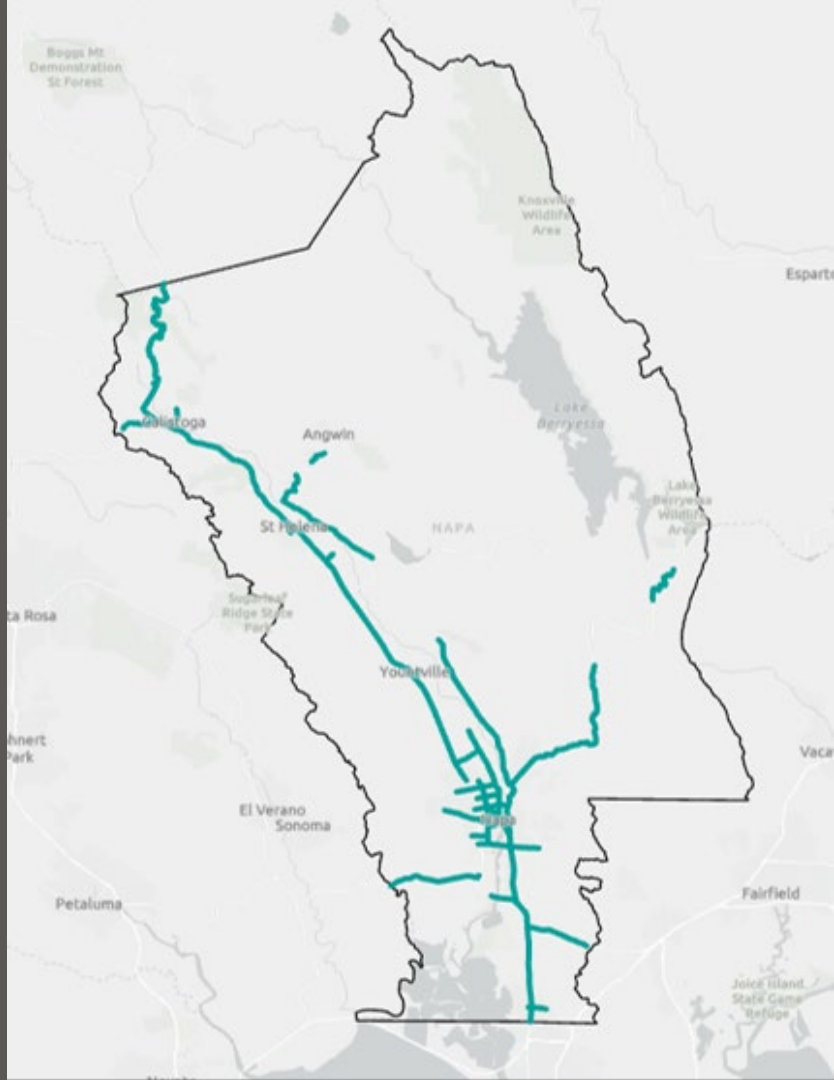
Bicycle KSIs



PRELIMINARY COLLISION FINDINGS
NAPA COUNTY

High Injury Network

2015-2021



Countywide Map

High Injury Network

2015-2021

St. Helena

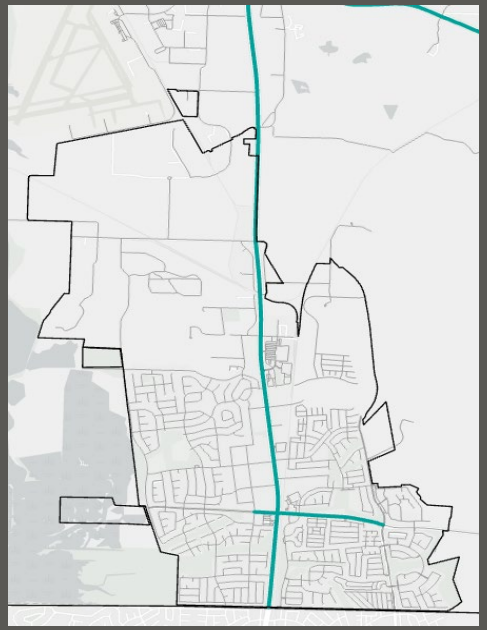
Calistoga

Yountville

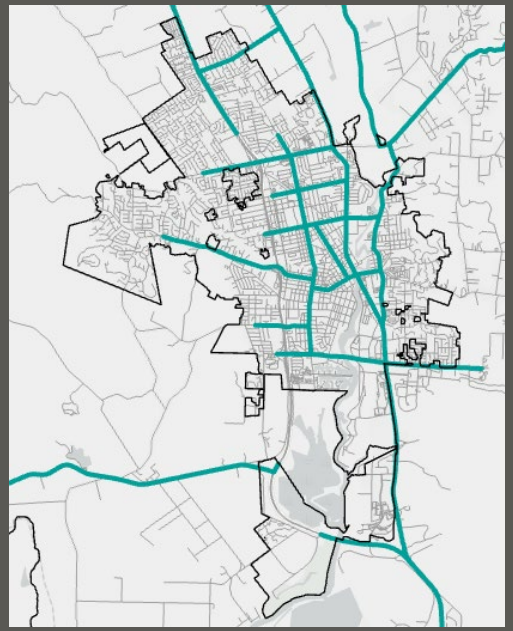
High Injury Network

2015-2021

American Canyon



Napa



Next Steps

we are here

- Develop Collision Profiles
  - Tells the story of why collisions occur & identifies the primary risk factors that lead to collisions
- Develop a Countermeasure Toolbox
  - Identify infrastructure and non-infrastructure related safety countermeasures, strategies, and practices by peer agencies
- Identify Priority Project Locations
  - Address collision profiles including site-specific and systemic improvements
- Develop Funding Plan
  - Projects are developed with the intention of competing well for HSIP, SS4A, and other funding sources

Discussion

- What do you see as the main road safety issues in Napa Valley?
- What conflicts do you see that are preventing (or may prevent) Napa Valley from achieving Vision Zero?
- What are the specific areas of road safety that you feel are most important to address?

Developing Vision Statement

Working Vision Statement:

Napa Valley is committed to an equity-focused, data-driven effort to eliminate traffic deaths and severe injuries on our streets by 2030.

Developing Vision Zero Action Plan

- What comes to mind as important actions for achieving Vision Zero
  - What more could be done to prevent fatal and serious injury crashes?
  - How might vulnerable users be given greater consideration in the design, construction, and operation of Napa Valley roadways?
  - Who are the key partners for roadway safety?
  - How can data be improved or used better in safety analysis and investments?
  - How can we ensure that Napa Valley serve all road users and those of all ages and abilities?
  - What are opportunities to improve communication between agencies and with the public regarding roadway safety?

NEXT STEPS

Project Schedule

- Identifying Collision Profiles (February)
- Develop countermeasure toolbox (March)
- Public Participation Maps/Website (March)
- Stakeholder/Technical Advisory Working Group Meeting #2 (April)
- NVTA Committee/Board Meetings-Ongoing
- Develop Action Plans (April)
- Public Workshops (May)
- Vision Zero Document Development and Approval (May/June)
- Stakeholder/Technical Advisory Committee #3 (June)

Questions?