

# Unincorporated San Mateo County Local Road Safety Plan

*Department of Public Works*



COUNTY OF SAN MATEO



# What is a Local Road Safety Plan?



# Local Road Safety Plan Goals

## Goals

0 traffic-related fatalities by 2035

Reduce severe injury collisions by 50% by 2035

Improve safety for all roadway users



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# Project Stakeholders

California Highway Patrol

Caltrans

San Mateo County Office of Sustainability

San Mateo County Planning & Building Department

San Mateo County Bicycle and Pedestrian Advisory Committee

San Mateo County Board of Supervisors

San Mateo County Department of Public Health



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# Project Data

Based on injury collision reports collected by law enforcement from 2014 through 2020

Limitations:

- Hospital data did not have location
- No good data sources for near-misses



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# Data Analysis Process

Collision Data for road segments and intersections

## **Intersections:**

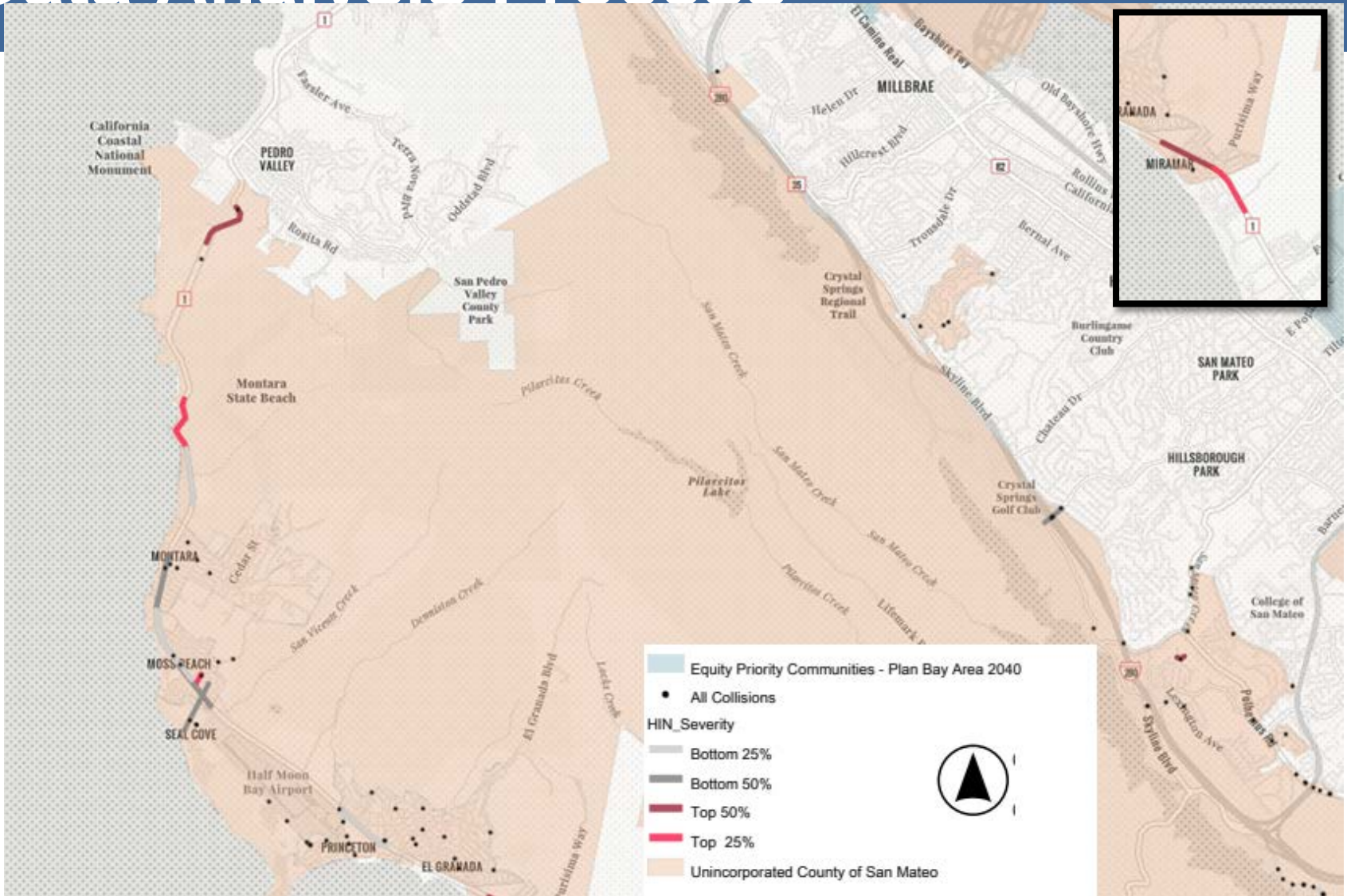
- Identified priority intersections with top 15 most injury collisions
- Separated signalized/unsignalized

## **Road Segments:**

- Identified top 20 roads using collisions.
- Severe Injury and Fatal Collisions given 10x weight
- Active Mode-Involved Collisions also given 10x weight



# Data Analysis Process



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# Countermeasures

## Countermeasures

- Selected from the Caltrans Local Road Safety Manual
- Matched to road segments and intersections based on collision type and modes





# Results

## Priority Road Segments (truncated to fit in slide. See report for full list)

| Street Name           | Install Bike Lanes | Install Separated Bike Lanes | Install Chevrons | Install Curve Warning Signs | Install Delineators and Reflectors on Median | Install Edgelines | Install Edgelines and Centerlines | Install Rapid Rectangular Flashing Beacons | Install/Upgrade Crossing with Enhanced Safety | Restrict Parking | Road Diet      |
|-----------------------|--------------------|------------------------------|------------------|-----------------------------|--|-------------------|-----------------------------------|--|---|------------------|----------------|
| 4th Ave               |                    |                              |                  |                             |  |                   |                                   | X  | X   |                  |                |
| 5th Ave               | X <sup>1</sup>     |                              |                  |                             |  |                   | X                                 | X  | X   |                  |                |
| Alameda de las Pulgas | X                  |                              |                  |                             |  |                   |                                   |  |   |                  | X <sup>2</sup> |
| Alpine Rd             |                    |                              |                  | X <sup>3</sup>              |  |                   |                                   |  |   |                  |                |
| Avy Ave               |                    |                              |                  |                             |  |                   | X                                 |  |   |                  |                |
| Bay Rd                | X                  |                              |                  |                             |  |                   | X                                 | X  | X   |                  | X              |
| Canada Rd             |                    | X                            | X                | X                           |  |                   |                                   |  |   |                  |                |
| Cloverdale Rd         |                    |                              |                  |                             |  |                   | X                                 |  |   |                  |                |
| Country Club Dr       |                    |                              |                  |                             |  |                   | X                                 |  |   |                  |                |
| Edgewood Rd           |                    |                              |                  |                             |  |                   | X                                 |  |   |                  |                |
| Golf Course Dr        | X                  |                              |                  |                             |  |                   |                                   |  |   |                  | X              |
| Guadalupe Canyon Pkwy |                    | X                            |                  |                             |  |                   |                                   |  |   |                  | X <sup>4</sup> |
| Harbor Blvd           | X                  |                              |                  |                             |  |                   |                                   | X  | X   |                  | X              |
| Higgins Canyon Rd     |                    |                              |                  | X                           |  |                   | X                                 |  |   |                  |                |
| Hillside Blvd         | X                  |                              |                  |                             |  |                   |                                   | X  | X   |                  | X              |
| Middlefield Rd        | X                  |                              |                  |                             |  |                   |                                   | X  | X   |                  | X              |
| Old La Honda Rd       |                    |                              |                  | X                           |  |                   |                                   |  |   |                  |                |
| Pescadero Creek Rd    |                    | X                            | X                | X                           |  |                   |                                   |  |   |                  |                |
| Ringwood Ave          |                    |                              |                  | X                           |  |                   | X                                 |  |   |                  |                |

<sup>1</sup> Buffered green bike lanes installed in 2021

<sup>2</sup> Under final design

<sup>3</sup> Conceptual study completed

<sup>4</sup> Under conceptual design

# Results

## Priority Intersections (Unsignalized)

| Primary Street | Secondary Street    | Install intersection lighting | Convert to all-way stop control | Install signals | Convert Intersection to roundabout | Install/upgrade larger or additional warning/regulatory signs | Upgrade intersection pavement markings | Install flashing beacons at stop-controlled intersections | Install flashing beacons as advance warning | Create directional median openings to allow/restrict left/U-turns | Install raised medians/refuge island | Install pedestrian crossings at uncontrolled locations with enhanced safety features | Install rectangular rapid flashing beacon | Install pedestrian signal (HAWK) |
|----------------|---------------------|-------------------------------|---------------------------------|-----------------|------------------------------------|---|--|---|---|---|--------------------------------------|--|---|----------------------------------|
| Alpine Rd      | Interstate 280      |                               |                                 | X <sup>1</sup>  | X                                  | X   |  | X   | X   |   |                                      |  |   |                                  |
| State Route 82 | Selby Lane          | X                             |                                 | X               | X                                  |   |  |   |   | X   | X                                    | X  | X   | X <sup>2</sup>                   |
| State Route 1  | Cypress Ave         |                               | X                               | X               |                                    | X   | X                                      |   | X   |   | X                                    |  |   |                                  |
| Spring St      | Warrington Ave      |                               | X                               |                 |                                    |   |  |   |   |   |                                      | X  | X   |                                  |
| Montgomery Ave | San Carlos Ave      |                               | X <sup>3</sup>                  |                 |                                    |   |  |   |   |   |                                      |  |   |                                  |
| State Route 1  | Medio Ave           |                               |                                 |                 |                                    |   |  |   |   |   | X                                    | X  | X   | X                                |
| State Route 1  | Virginia Rd         |                               |                                 |                 |                                    |   |  |   |   |   | X                                    | X  | X   | X                                |
| Edgewood Rd    | Canada Rd           |                               |                                 |                 | X                                  | X   |  |   |   |   |                                      |  |   |                                  |
| Edgewood Rd    | Crestview Dr        |                               |                                 |                 | X                                  | X   |  |   |   |   |                                      |  |   |                                  |
| Middlefield Rd | 6 <sup>th</sup> Ave |                               |                                 |                 |                                    |   |  |   |   |   |                                      | X  | X   | X                                |
| Middlefield Rd | 2 <sup>nd</sup> Ave |                               |                                 | X               |                                    |   |  |   |   |   |                                      | X  | X <sup>4</sup>                            | X                                |

# Results

## Priority Intersections (Signalized)

| Primary Street        | Secondary Street    | Install/upgrade larger or additional warning/regulatory | Upgrade intersection pavement markings | Install flashing beacons as advance warning | Create directional median openings to allow/restrict left/U- | Install raised medians/refuge Island | Improve signal hardware | Improve signal timing | Install raised pavement markers and striping through intersection | Modify signal phasing to implement a Leading Pedestrian Interval |
|-----------------------|---------------------|---|--|---|--|--------------------------------------|-------------------------|-----------------------|---|--|
| State Route 1         | Capistrano Ave      |   |  |   |  | X                                    | X                       | X                     | X   | X  |
| Alameda de las Pulgas | Valparaiso Ave      |   |  |   |  |                                      |                         |                       |   | X  |
| Middlefield Road      | 5 <sup>th</sup> Ave |   |  |   |  |                                      | X                       | X                     | X   | X  |
| Ralston Ave           | State Route 92      | X   |  | X   |  |                                      |                         |                       |   |  |

# Implementation

- **Some improvements are already completed/underway**
  - Middlefield Road
  - Santa Cruz Ave
- **Projects will be developed from these lists as funding becomes available**
- **Some countermeasures may be implemented as part of maintenance projects**



# Next Steps and Future updates

- **Present Final Draft to Public – Fall 2022**
- **Board adoption in – January 2023**
- **Local Road Safety Plan will be re-evaluated, at minimum, every 5 years with new data and evaluation of implemented countermeasures**



# Thanks you

Questions?

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