

Unincorporated San Mateo County Local Road Safety Plan

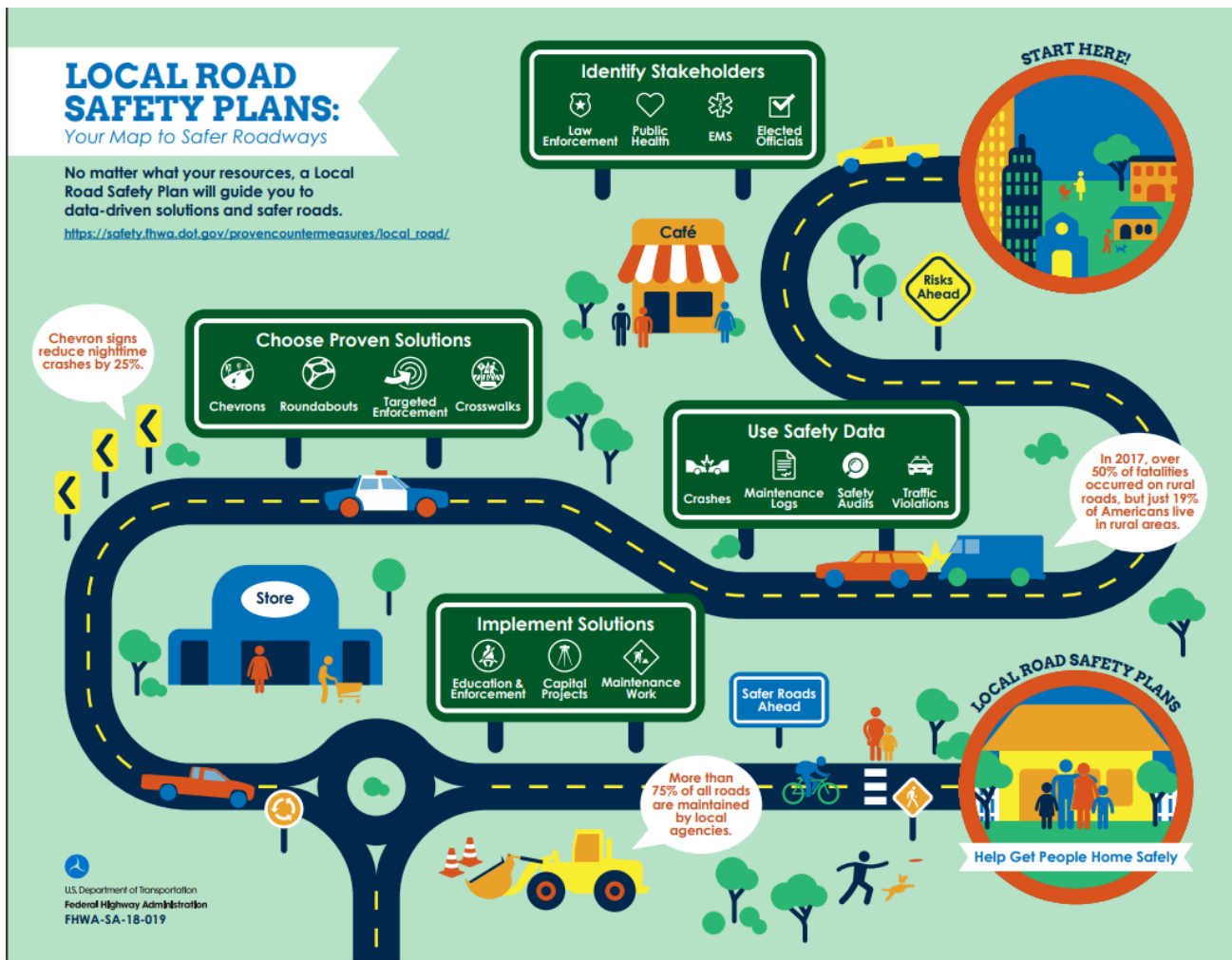
Department of Public Works



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



Project Stakeholders

California Highway Patrol

Caltrans

San Mateo County Department of Public Works

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



COUNTY OF SAN MATEO



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



Data Analysis Process

Collision Data for road segments and intersections

Intersections:

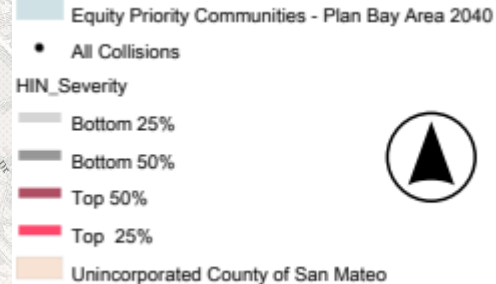
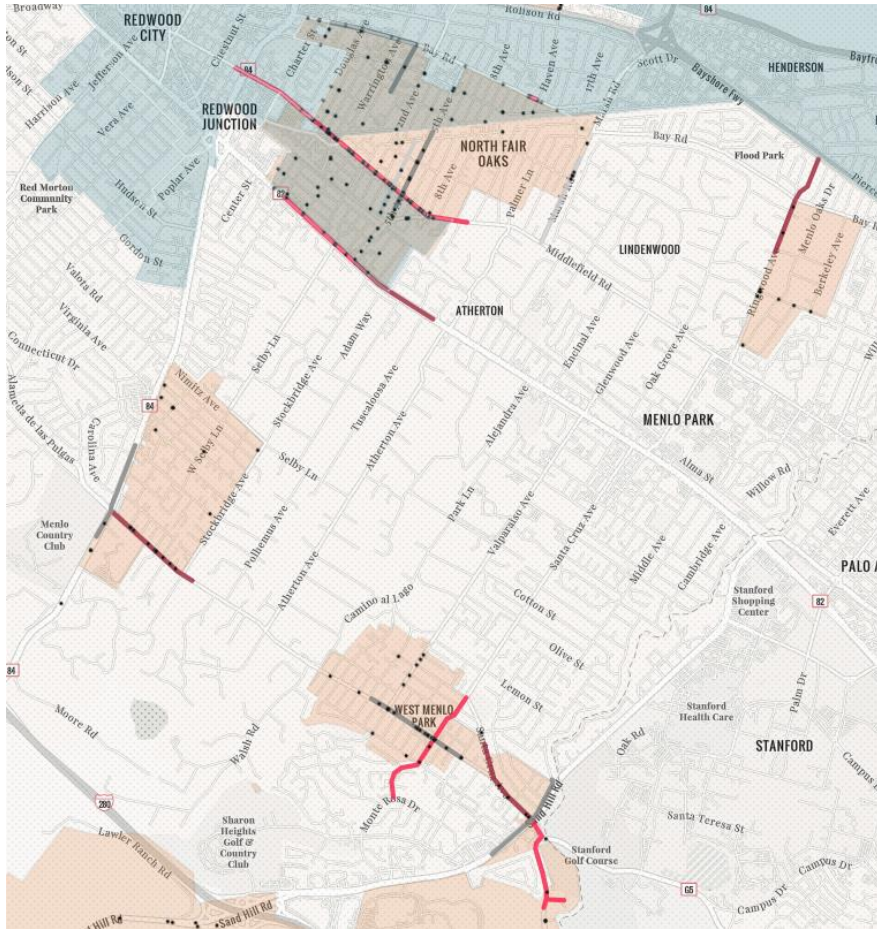
- Identified priority intersections with top 15 most injury collisions
- Separated signalized/unsignalized

Road Segments:

- Identified priority road segments using collisions.
- Severe Injury and Fatal Collisions given 10x weight
- Active Mode-Involved Collisions also given 10x weight



Data Analysis Process



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 ¹ | | | | | | X | X | X | | |
| Alameda de las Pulgas | X | | | | | | | | | | X ² |
| Alpine Rd | | | | X ³ | | | | | | | |
| 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 ⁴ |
| 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 | | | | |

¹ Buffered green bike lanes installed in 2021

² Under final design

³ Conceptual study completed

⁴ 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 ¹ | X | X | | X | X | | | | | |
| State Route 82 | Selby Lane | X | | X | X | | | | | X | X | X | X | X ² |
| State Route 1 | Cypress Ave | | X | X | | X | X | | X | | X | | | |
| Spring St | Warrington Ave | | X | | | | | | | | | X | X | |
| Montgomery Ave | San Carlos Ave | | X ³ | | | | | | | | | | | |
| 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 th Ave | | | | | | | | | | | X | X | X |
| Middlefield Rd | 2 nd Ave | | | X | | | | | | | | X | X ⁴ | 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 th Ave | | | | | | X | X | X | X |
| Ralston Ave | State Route 92 | X | | X | | | | | | |

Implementation

- **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 – Fall 2023**
- **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**

