

CALIFORNIA SAFE ROADS

2020 - 2024 Strategic Highway Safety Plan

Strategic Highway Safety Plan (SHSP) Development Outreach Meeting

May X, 2019

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update

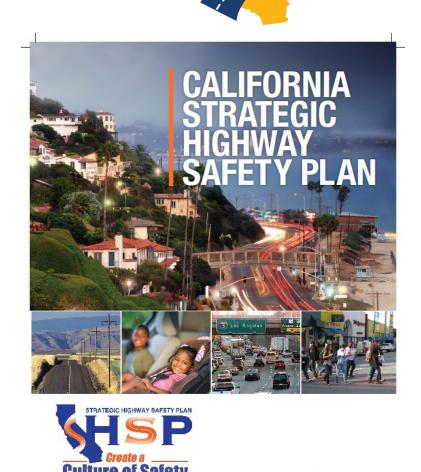
- 8:30 9:15 AM: Welcome / Introductions / Overview
- 9:15 9:45 AM: Statewide Summary

12:30 – 1:30 PM: Tribal Outreach Session



SHSP OVERVIEW

- Guides safety activities for all roadway users
- Addresses safety on all public roads
- All agency coordinated approach
- Strategic, data-driven process
- Federal requirement
- Current SHSP covers 2015 to 2019



2015-2019

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SHSP LOCAL AND REGIONAL BENEFITS

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Improve safety

Save lives Reduce preventable injuries

Improve livability

Support active transportation goals Improve public health Coordinate with congestion management efforts

Share local knowledge

Exchange best practices Access information and data Funding and partnering opportunities



SHSP VISION, MISSION & OBJECTIVE



Vision

Safe Public Roads Across California

Mission

Ensure safety for all modes of travel on California's public roads

Goal

Zero Fatalities



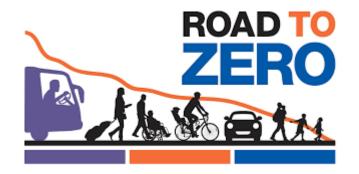
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MULTIPLE SAFETY APPROACHES









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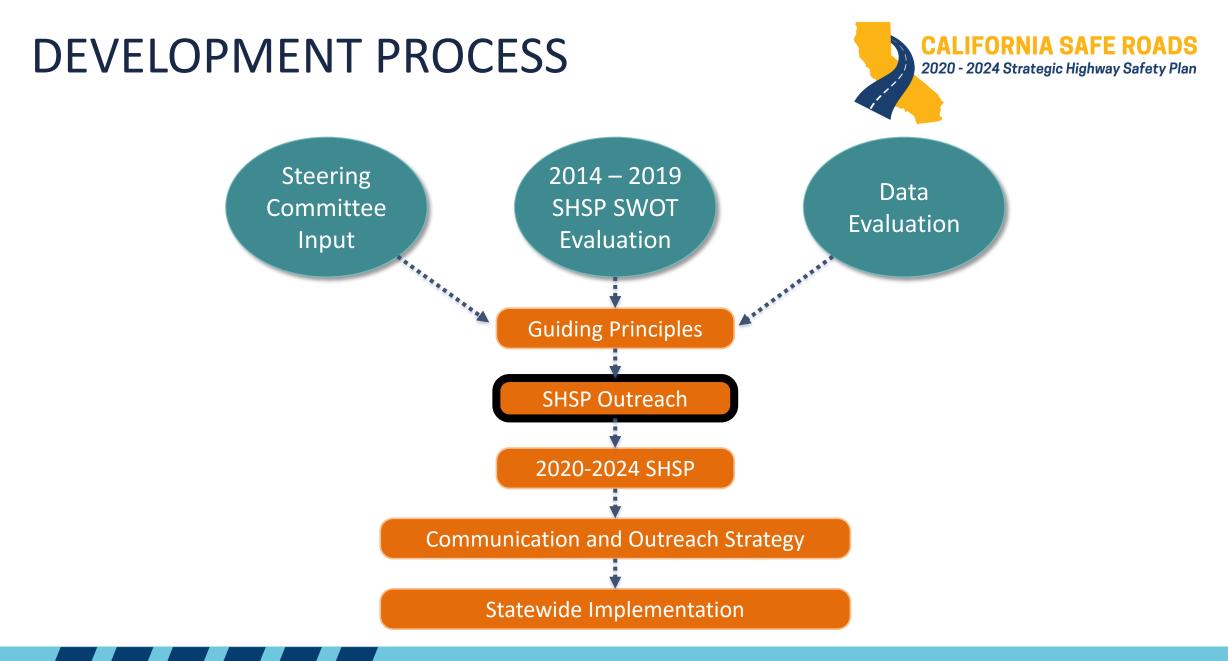


STATEWIDE COLLABORATION



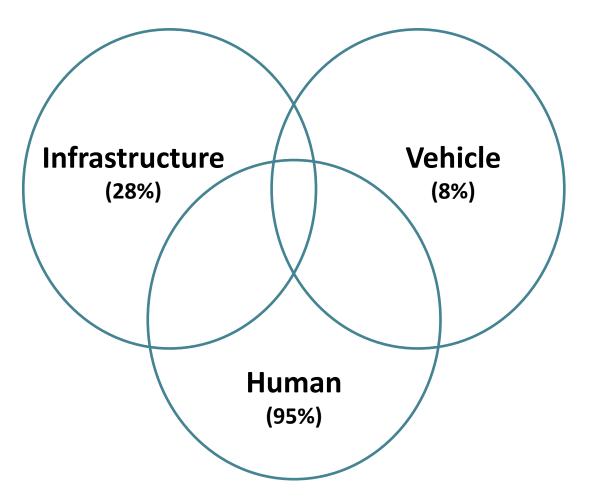
Working together to reduce fatalities and serious injuries on all public roadways.



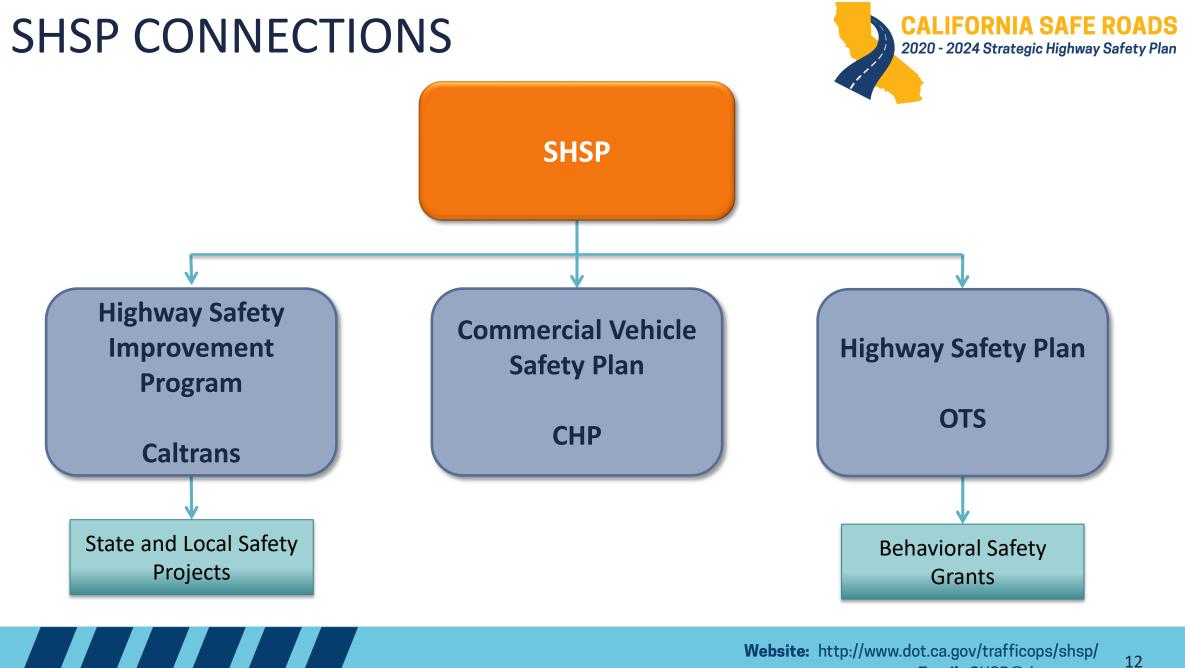


COLLISION FACTORS









Email: SHSP@dot.ca.gov

CALTRANS HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP)



- FAST Act
 - Continues the Highway Safety Improvement Program as a core Federal Aid program to significantly <u>reduce fatalities and serious injuries</u> on all public roads.
 - Local HSIP Program
 - Safety Improvement Projects (Benefit/Cost selected safety projects)
 - (New) Systemic Safety Analysis Report Program (SSARP)





OFFICE OF TRAFFIC SAFETY



- Liaison with the National Highway Traffic Safety Administration (NHTSA)
- California Highway Safety Plan
- Annual Performance Report
- Grant Programs



CALIFORNIA HIGHWAY PATROL



- Mission Provide the highest level of Safety, Service, and Security
- CHP involvement in the SHSP
 - Executive Committee Commissioner Warren Stanley
 - Steering Committee Assistant Chief
 - Lead or Co-lead on 10 of the 15 Challenge Areas
 - Active involvement on 13 of the 15 Challenge Areas
 - Lead or Co-lead on 25 of the Actions
 - Mileage Death Rate on the increase (2013: .94 to 2016: 1.08)
 - Work with the Office of Traffic Safety to incorporate SHSP initiatives into the CHP Grants





CALIFORNIA HIGHWAY PATROL



- Current SHSP Actions the CHP is working on
 - Action 5.1 Update CHP DUI Checkpoint Educational Pamphlet with an emphasis on drugs
 - Action 6.1 Develop an issue paper establishing benefits of Standardized Field Sobriety Tests (SFSTs) training for law enforcement agencies
 - Action 6.2 Increase the number of Advanced Roadside Impaired Driving Enforcement (ARIDE) personnel trained by 8 percent
 - Action 4.1 Develop a media campaign....to raise awareness about speeding and aggressive driving
 - Action 2.2 Identify locations with reported pedestrian safety issues and conduct high visibility pedestrian safety enforcement operations



CALIFORNIA HIGHWAY PATROL



- Commercial Vehicle Safety Plan
 - Funded by the Motor Carrier Safety Assistance Program (MCSAP) Grant 2018-20
 - Reduce commercial motor vehicle (CMV) involved collisions within CHP jurisdiction, including the Mileage Death Rate for CMVs
 - 53 Commercial Vehicle Enforcement Facilities (38 locations)
 - 144 Mobile Road Enforcement Officers
 - CMV Fatal Crashes 302.6 per year (5 year average)
 - MCSAP Activities: Driver and Vehicle Inspections, Enforcement,
 Compliance Reviews and Audits, Public Education, and Data Collection









- SHSP is a requirement under SAFETEA-LU
- Statewide-coordinated safety plan led by State DOT that provides comprehensive framework for reducing fatalities and serious injuries on all public roads
- Identifies a State's key safety needs and guides investment decisions towards strategies and countermeasure with the most potential to save lives and prevent injuries
- SHSP shall be data driven, evaluate performance and updated
- SHSP Challenge Areas, Revisions and Stakeholders









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Statewide Summary

DATA-DRIVEN IMPLEMENTATION

- Data analysis drives implementation
- 2020 to 2024 Data
 - 10 years (2008 to 2017)
 - 128,974 fatal and serious injury collisions
 - 147,458 fatal and serious injuries
 - 1.14 fatal and serious injuries / collision

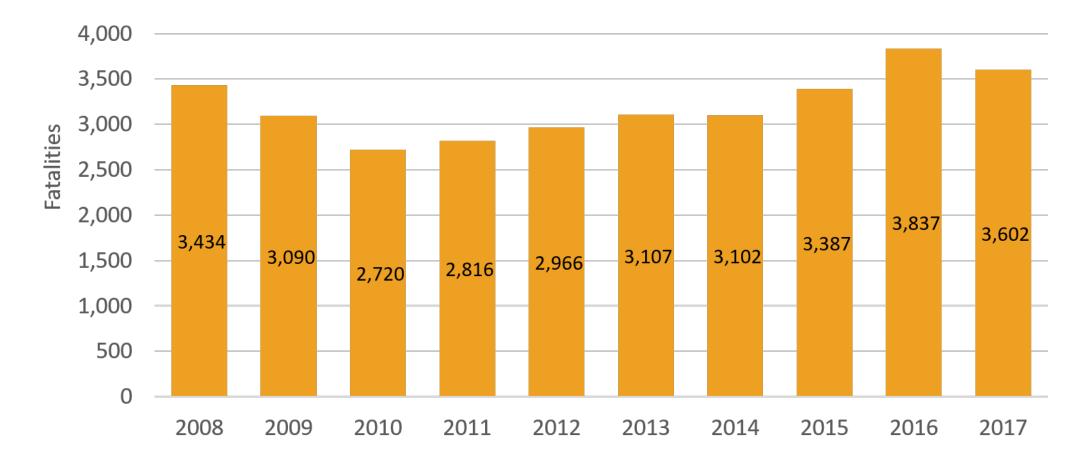








Total Fatalities by Year

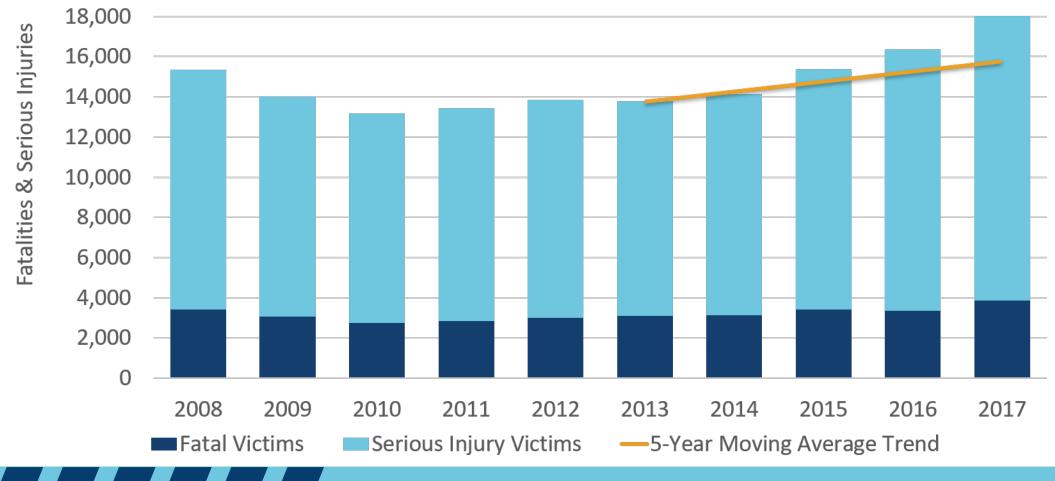


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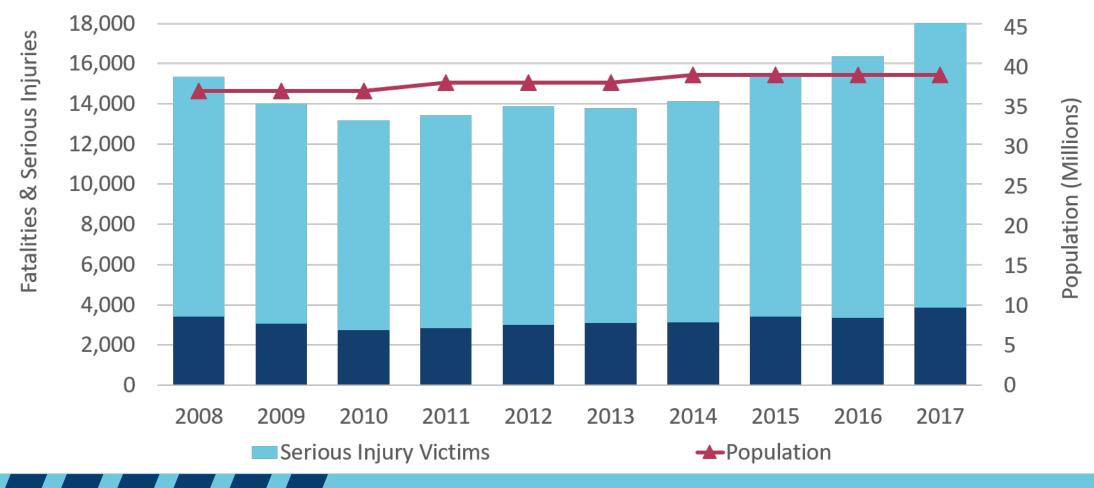


Total Fatalities and Serious Injuries by Year





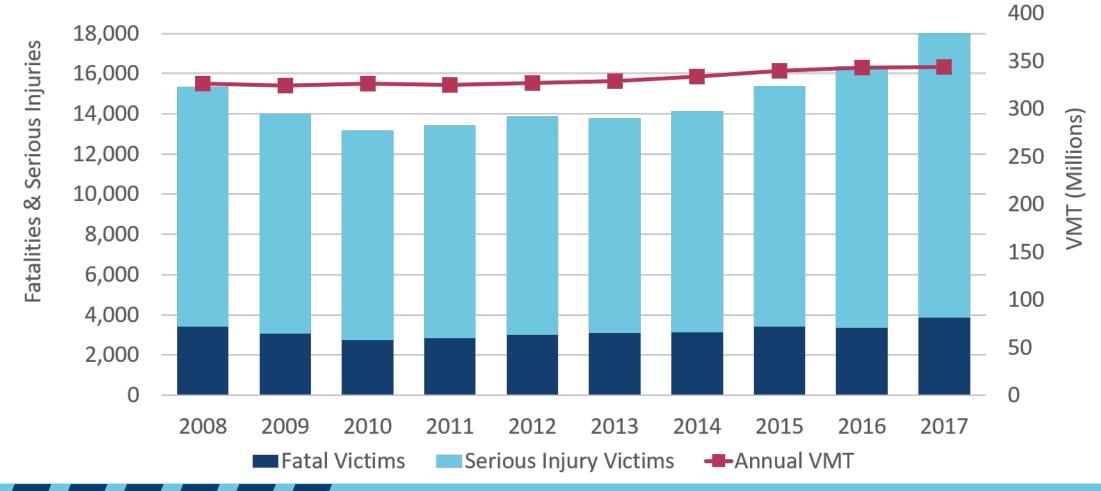
Total Fatalities and Serious Injuries by Year Versus Population



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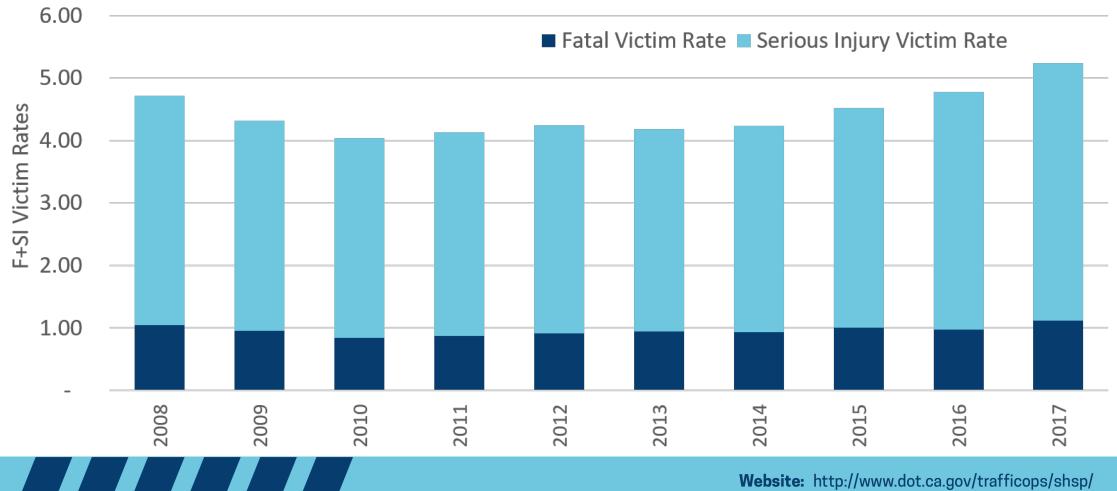
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Fatality & Serious Injury Rates



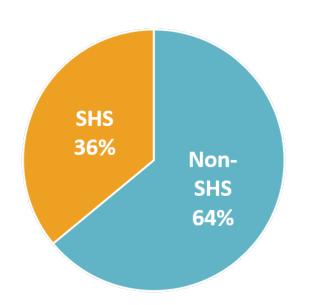
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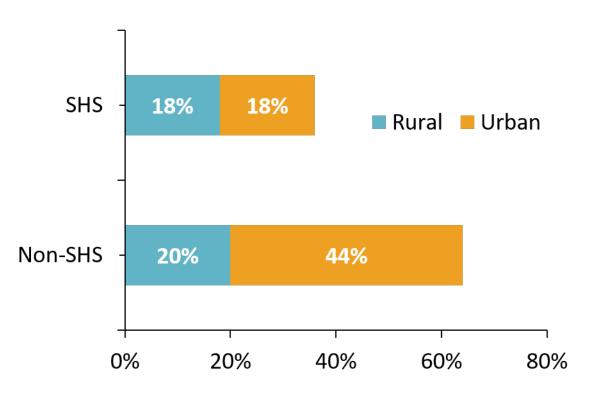
Fatal & Serious Injury Collisions



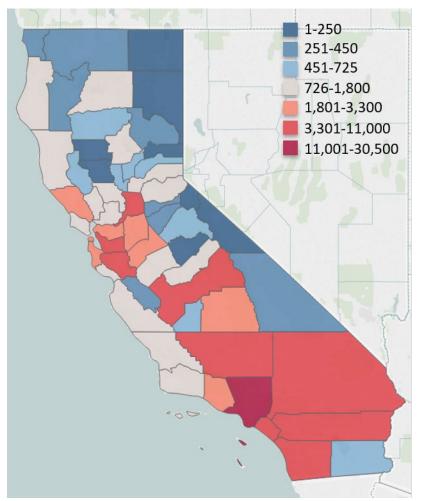
State Highway System (SHS) vs. Non-SHS



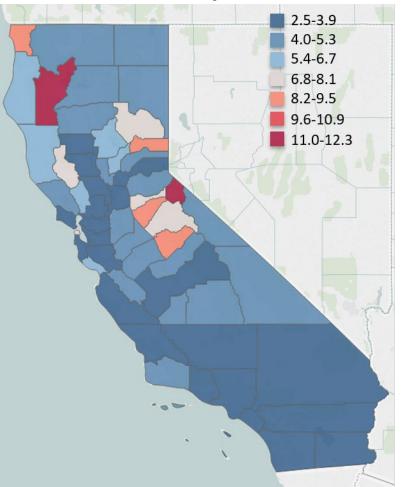
Percent of Victims by Location



F+SI Collisions



F+SI Collision Rate per 100M VMT



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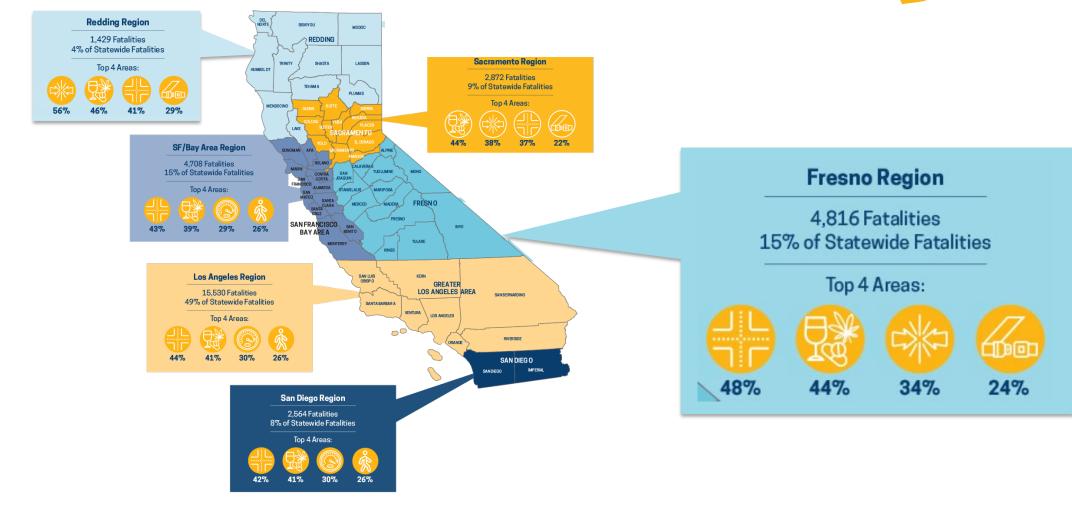
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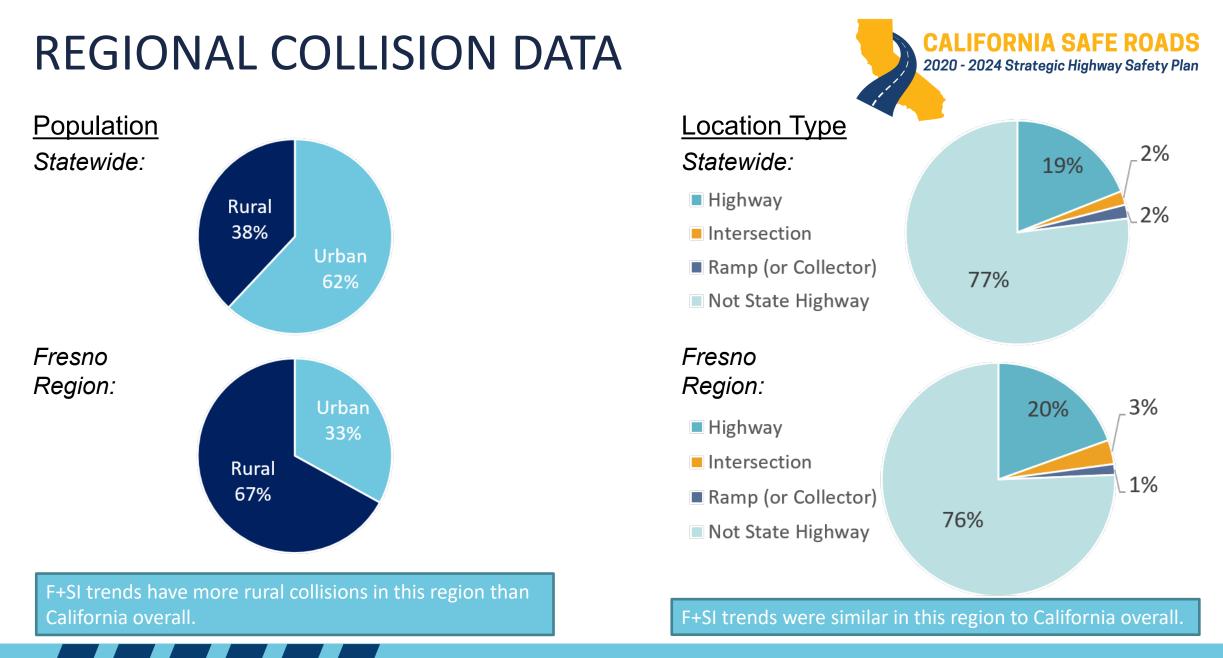
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Fresno Region Summary

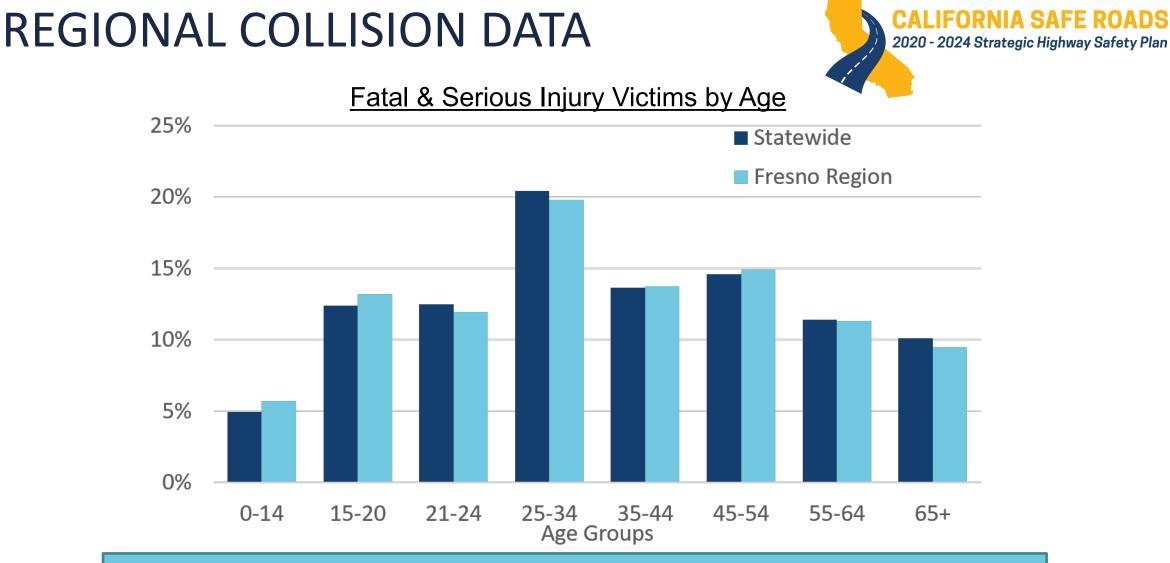








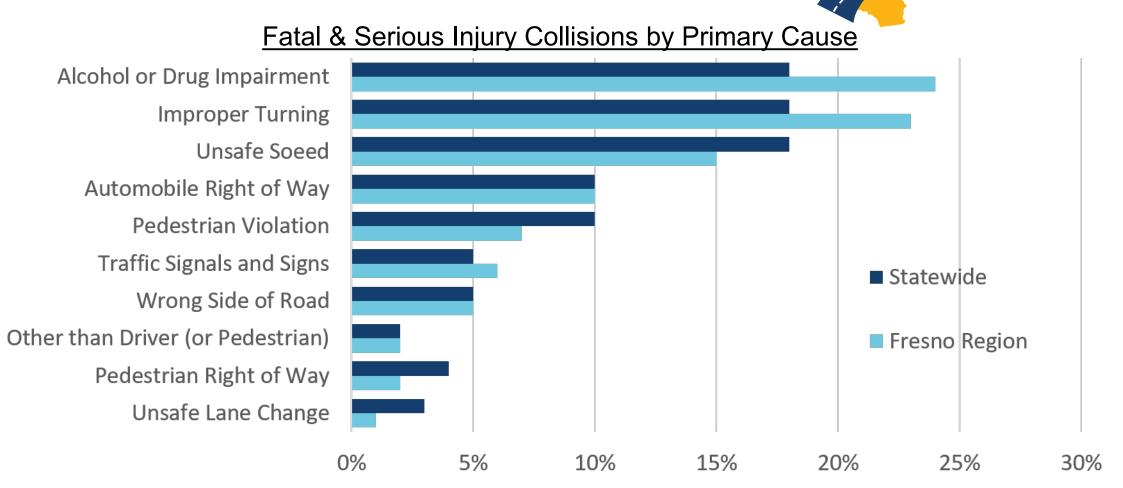
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F+SI collisions involved more people aged 0-20 in this region than California overall.

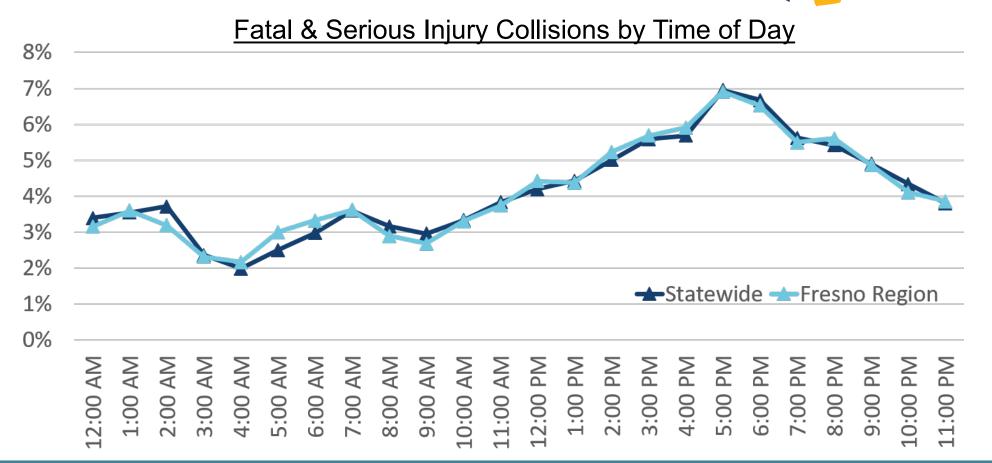


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The Fresno region has more F+SI collisions occurring from Alcohol/Drug Impairment and Improper Turning than statewide.

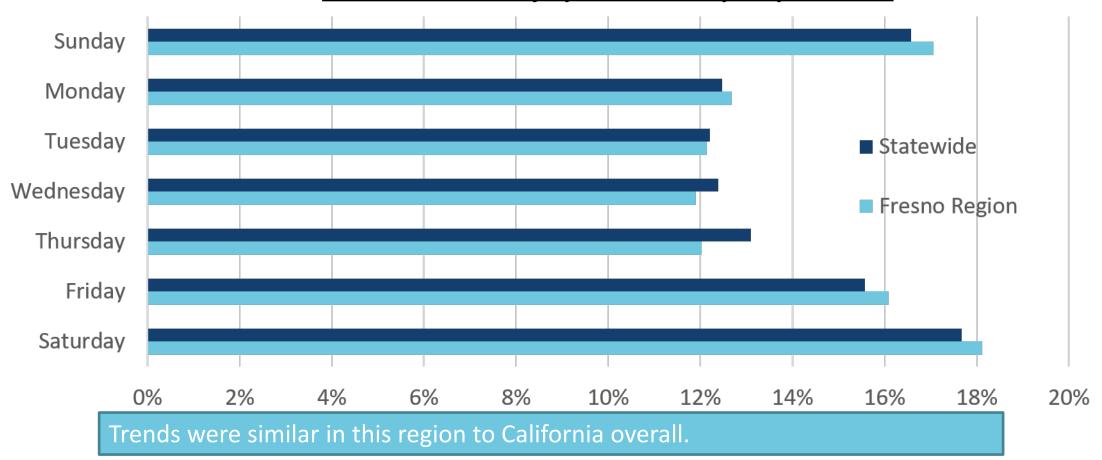




Regional collisions have more collisions between 4:00-7:00 AM than Statewide collision trend.

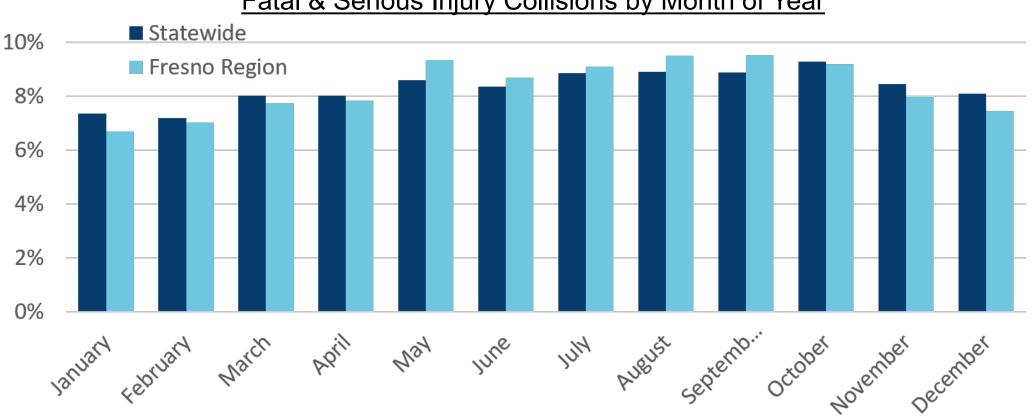


Fatal & Serious Injury Collisions by Day of Week



REGIONAL COLLISION DATA



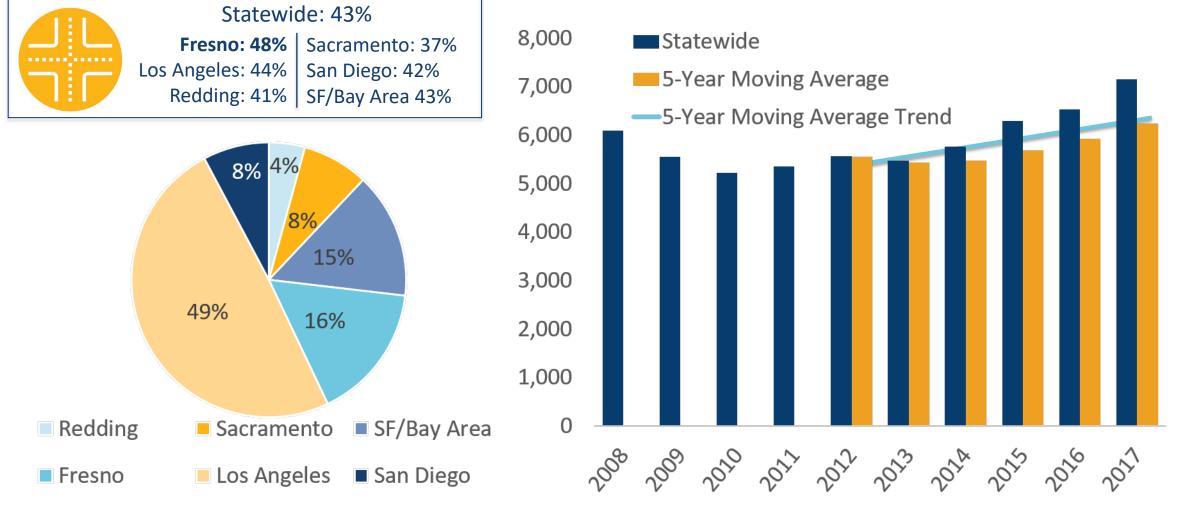


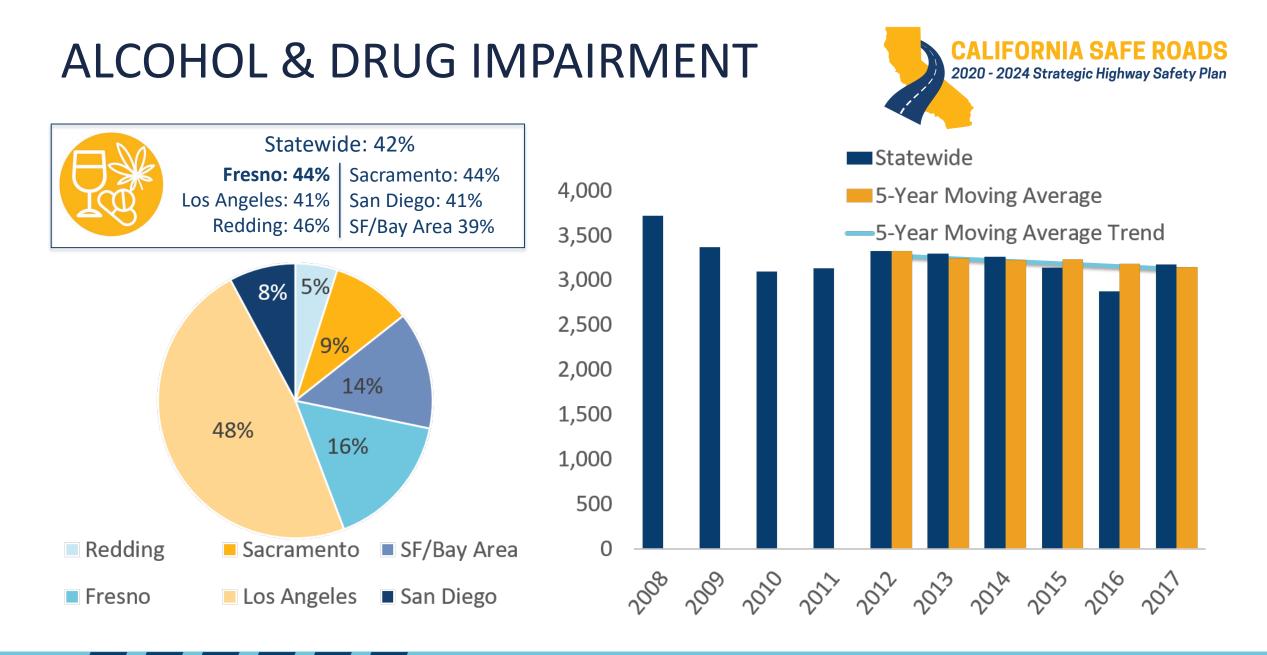
Fatal & Serious Injury Collisions by Month of Year

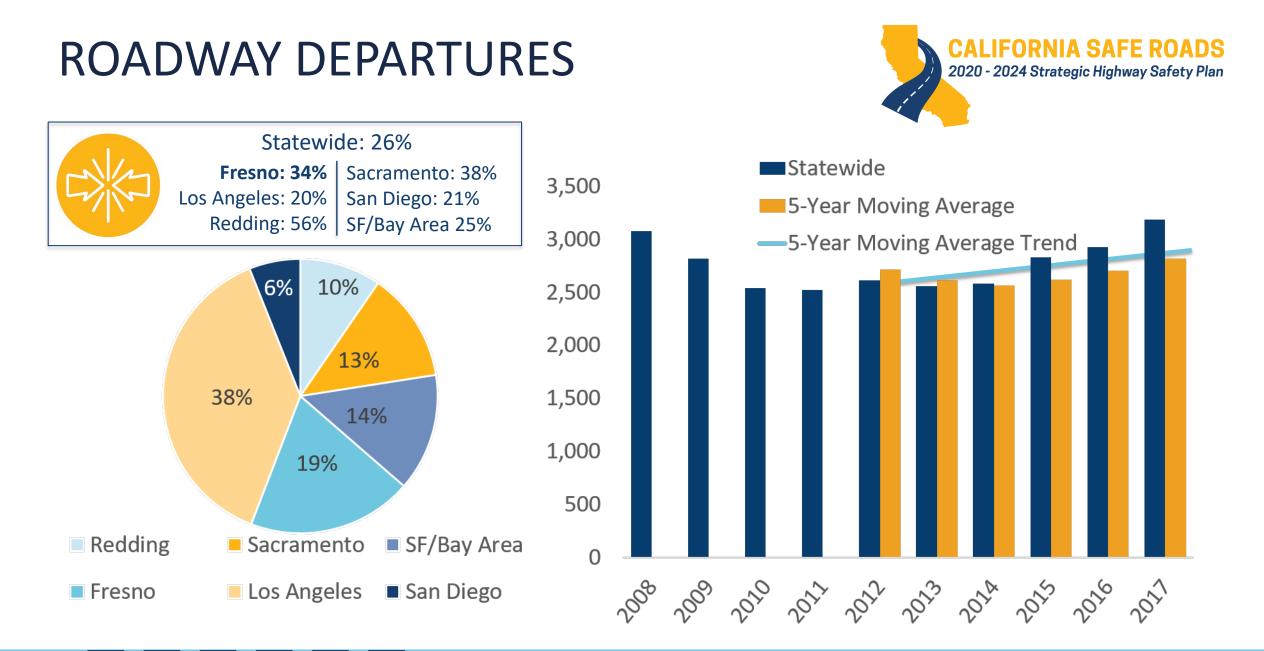
More collisions occurred in the summer months in this region than California overall.

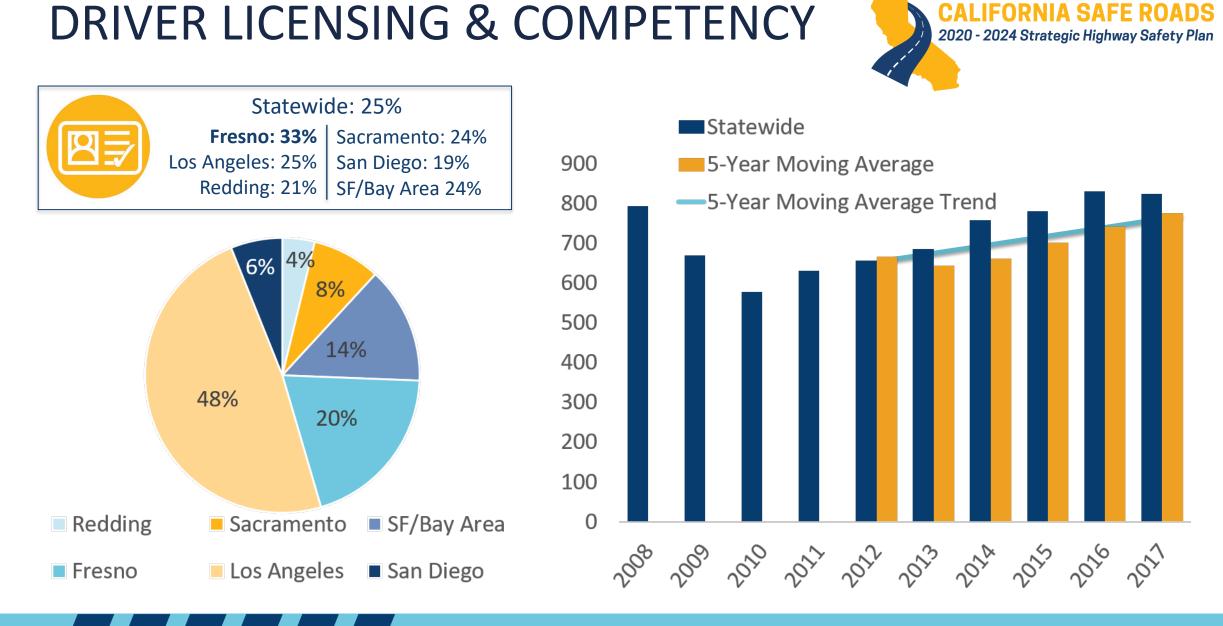
INTERSECTIONS & INTERCHANGES



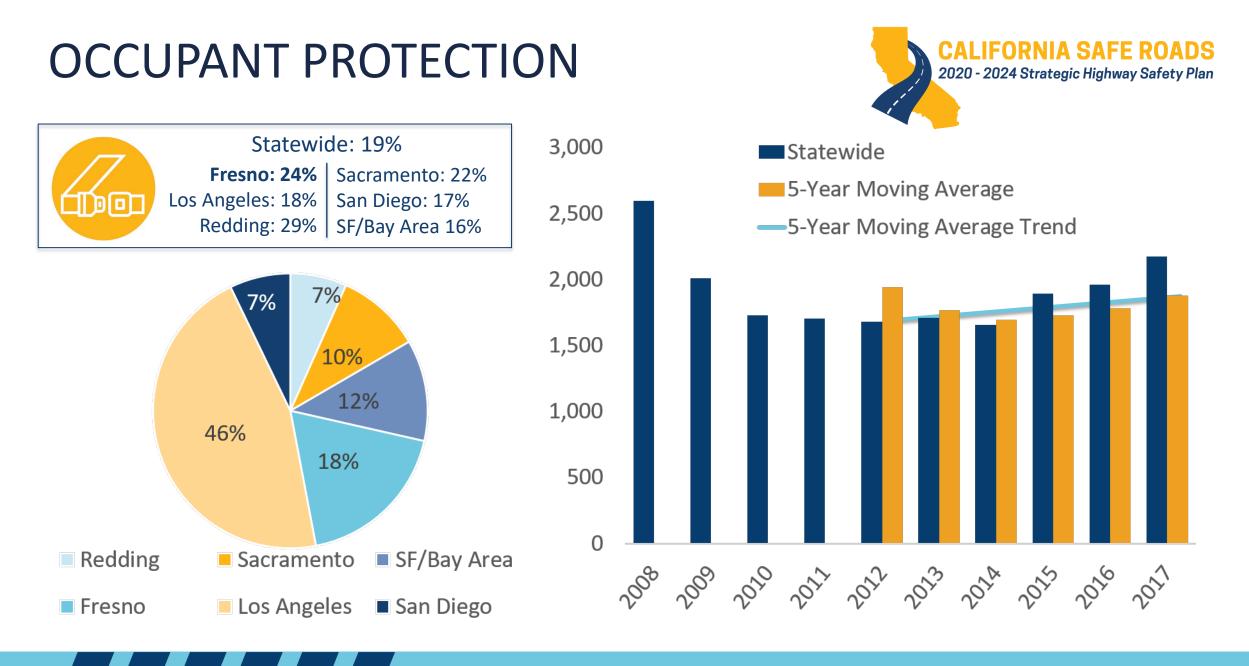


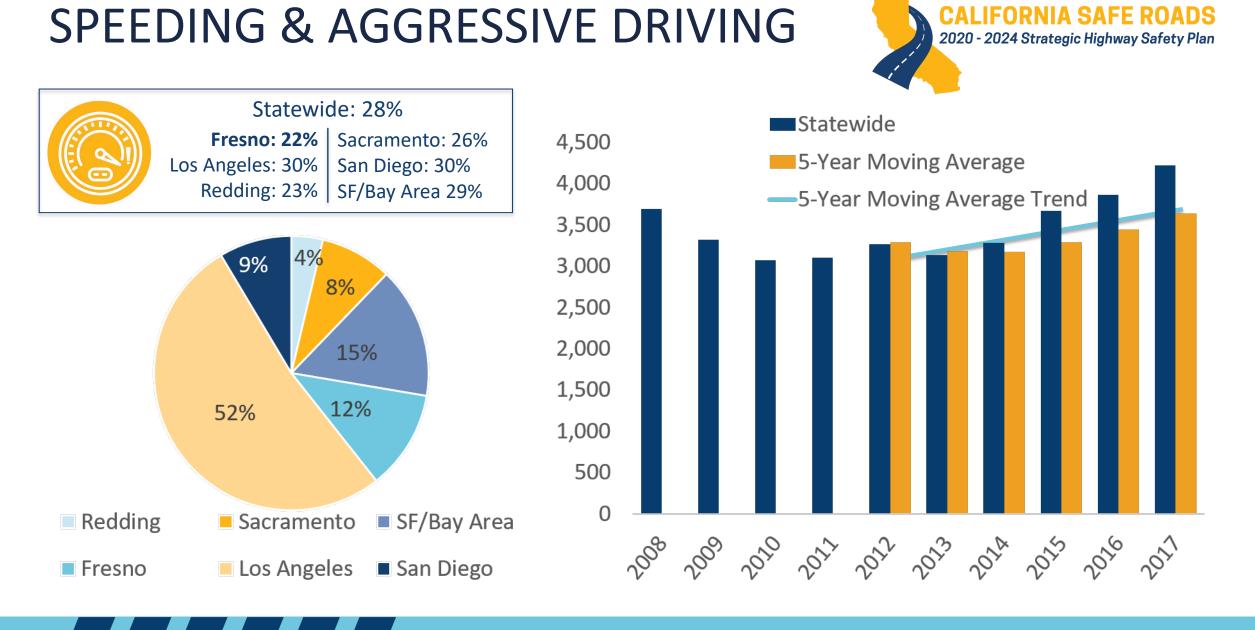






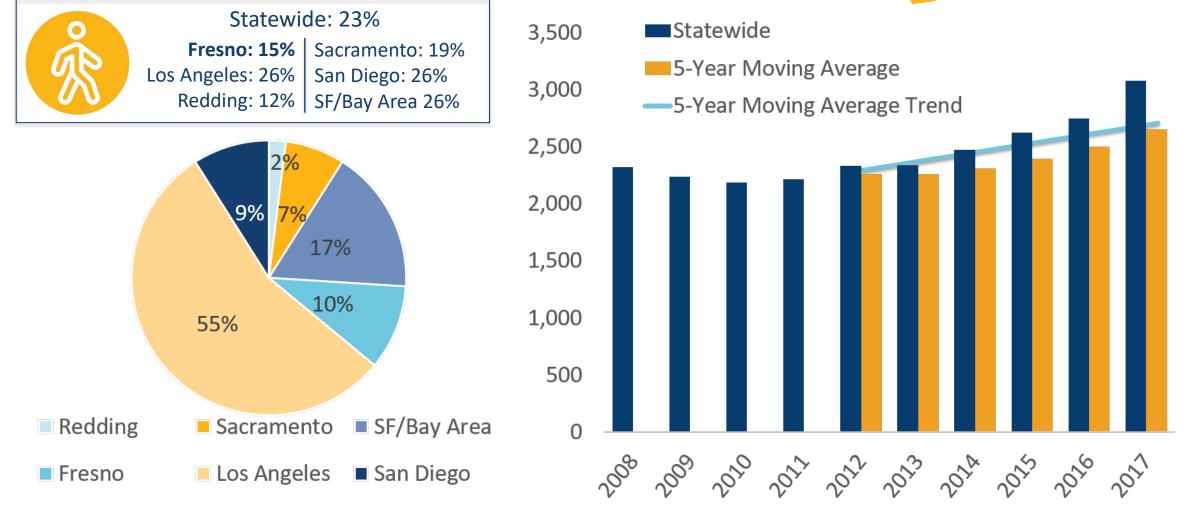
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PEDESTRIANS





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YOUNG DRIVERS

Los Angeles San Diego

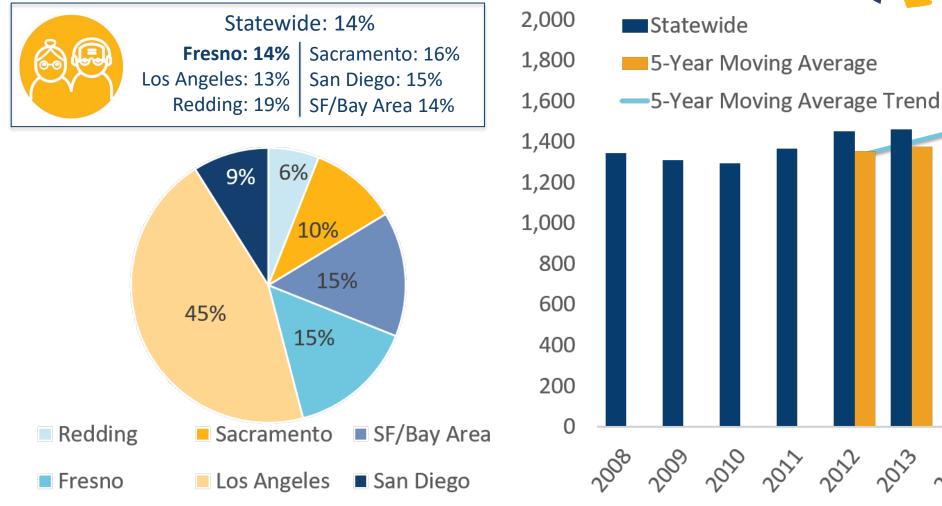
Redding

Fresno

2020 - 2024 Strategic Highway Safety Plan 2,500 Statewide Statewide: 13% Fresno: 15% Sacramento: 14% 5-Year Moving Average Los Angeles: 14% San Diego: 12% 2,000 — 5-Year Moving Average Trend Redding: 10% SF/Bay Area 13% 3% 7% 1,500 9% 14% 1,000 50% 17% 500 0 Sacramento SF/Bay Area 2000 2000 2010 2012 2012 2012 2014 2015 2010 2011

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AGING DRIVERS



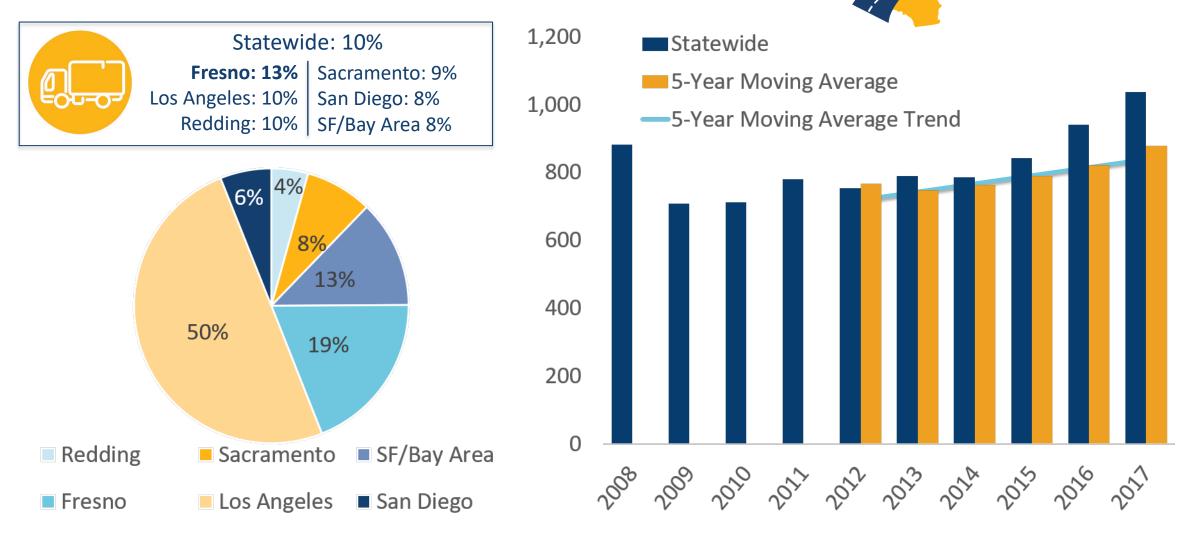


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COMMERCIAL VEHICLES

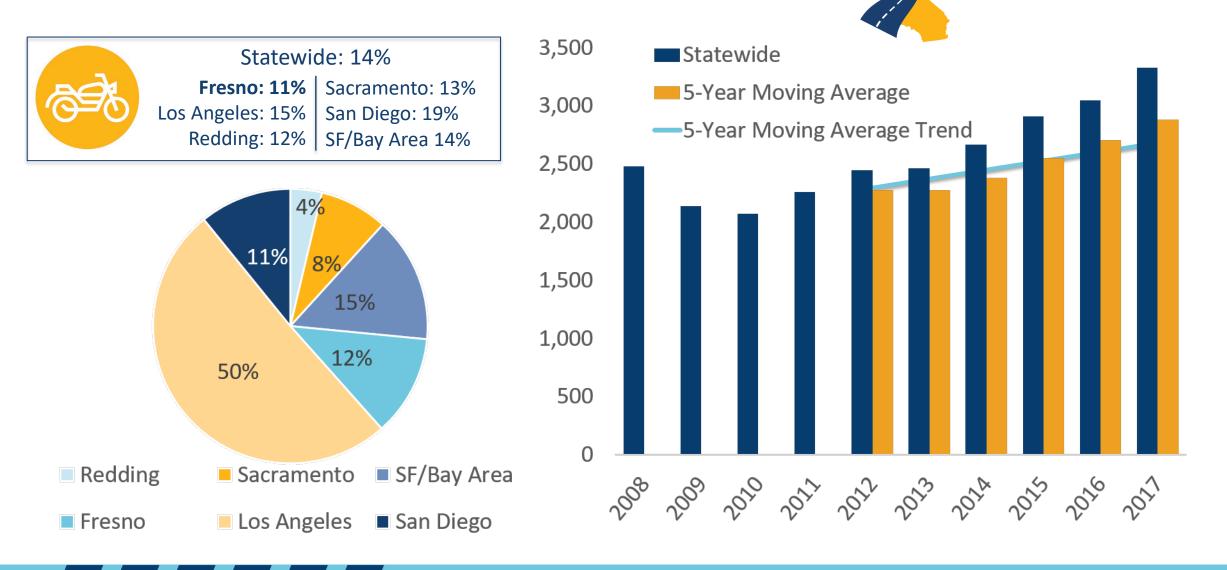
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MOTORCYCLES

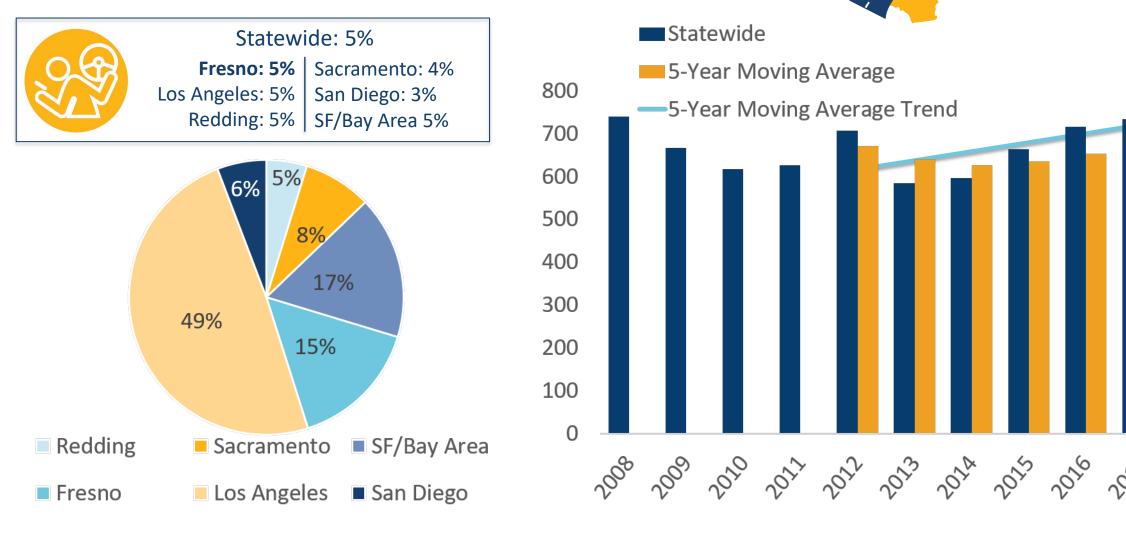
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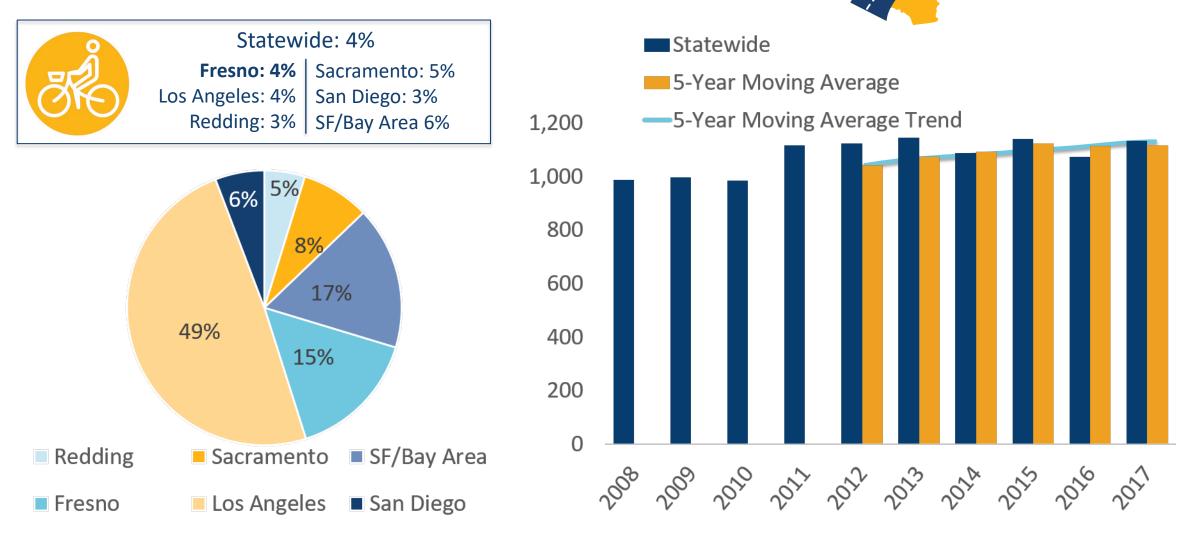
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DISTRACTED DRIVING

BICYCLING

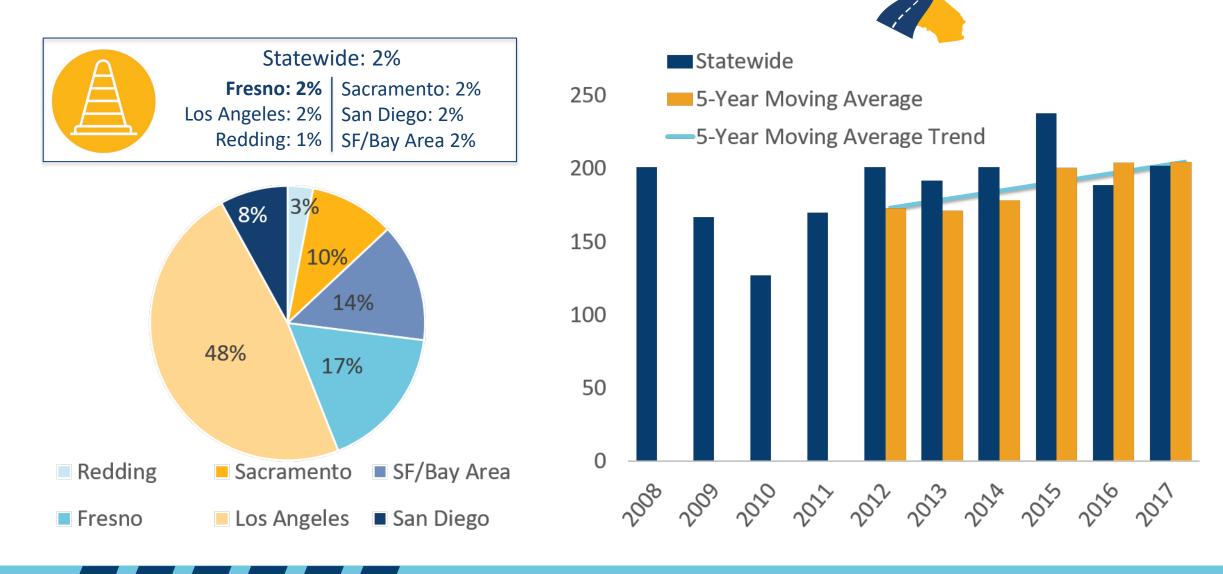
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WORK ZONE

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Safety Strategy Session

SAFETY STRATEGY SESSION



- Open House Format
- Discuss data and strategies with facilitators and attendees at 5 stations
- Fill out comment forms
 - What is the biggest safety issue in your community?
 - What specific data should drive the strategies?
 - What strategies/programs are most effective in your region?
 - What can be done to improve implementation?
 - What other ideas do you have?



Safety Strategy Session

Stations

Overview

Collision Overview Vision / Mission / Objective

Drivers & Passengers

- 1. Driver licensing
- 2. Aggressive driving
- 3. Driving under influence
- 4. Distracted driving
- 5. Occupant protection
- 6. Young drivers (<21)
- 7. Aging drivers (>65)
- 8. Commercial vehicle operations

Infrastructure

- 9. Intersections
- **10.** Lane/Roadway departures

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11. Work zones

Vulnerable Users

- 12. Pedestrians
- **13. Bicyclists**
- 14. Motorcyclists

Vehicles

15. Equipment

Emergency Response

16. Emergency Response

Policy 4 Morcell **EXAMPLE STRATEGIES** Education Infrastructure-Related Collisions are inclusive of a variety of collision types, including pedestrians, bicyclists, motorcycles, roadway, and 6_{uiu} intersection collisions. Policy Median and Pedestrian Longitudinal Rumbe Stripes ZIA **Crossing Islands** All offender alcohol i interlock law Pedestrian Hybrid Beacon **Median Barriers** DWI courts Leading Pedestrian Intervals Stronger graduated di Tapered Edge ŵ licensing laws Screening of older dr Walkways Reduce Left-Turn Conflict ŵ i Intersections Multiple Low-Cost Measures **Road Diet** Employer-based prog at Stop-Controlled targeting workers that Intersections higher risk of drowsy **Crosswalk Enhancements** Backplates with Drug recognition expension 000 Ŕ **Retroreflective Borders** training for law enforce Responsible beverage **Corridor Access Management** Dedicated Left-turn and (5) training **Right-turn** lanes Motorcycle rider train **Roadside Design** Roundabouts Improvement at Curves Technology **Enhanced Delineation and** Yellow Change Intervals * Automated enforcen Friction for Horizontal Curves speed and red light ru

Behavior-Related Collisions are inclusive of a variety of collision types, including aggressive driving, alcohol-involved, drug-involved, distracted, young driver, and aging driver collisions.

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ierT		 Alternative transportation programs 	
ignition		 Increased parental involvement programs 	R
		 Mandatory driver education for novice drivers 	R
driver		 Education campaigns for physicians and law enforcement about older driver screening 	<u>89</u>
lrivers	() () () () () () () () () () () () () () ()	 Education campaigns targeted to low seat-belt users 	
		 School programs 	
grams nat are at y-driving	89 💭	Enforcement • High visibility enforcement	() * *
pert rcement			
ge service		 Publicized sobriety check- points 	
ining	~~ @	 Saturation patrols 	
		 Enforcement of graduated driver licensing and zero tolerance laws 	R
ment for running.		 Integrated enforcement 	

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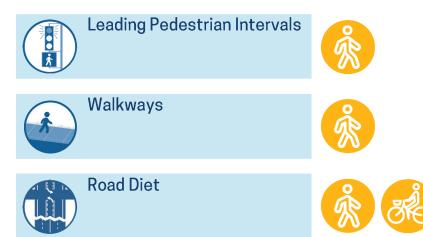
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Median and Pedestrian Crossing Islands







Pedestrian Hybrid Beacon



Crosswalk Enhancements









Roadside Design Improvement at Curves





Enhanced Delineation and Friction for Horizontal Curves

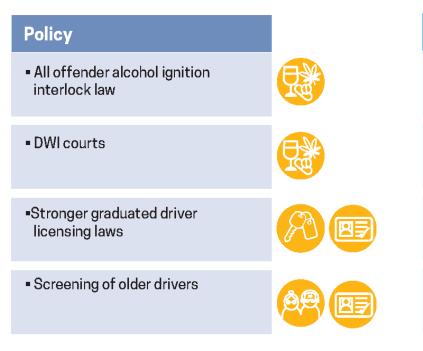








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Training

- Employer-based programs targeting workers that are at higher risk of drowsy-driving
- Drug recognition expert training for law enforcement
- Responsible beverage service training
- Motorcycle rider training





Technology

 Automated enforcement for speed and red light running.





Education

- Education campaigns about increased enforcement
- Alternative transportation programs
- Increased parental involvement programs
- Mandatory driver education for novice drivers
- Education campaigns for physicians and law enforcement about older driver screening
- Education campaigns targeted to low seat-belt users

School programs











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• Enforcement of graduated driver licensing and zero tolerance laws

points

Integrated enforcement



Safety Strategy Session



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