ALAMEDA COUNTY TRANSPORTATION COMMISSION

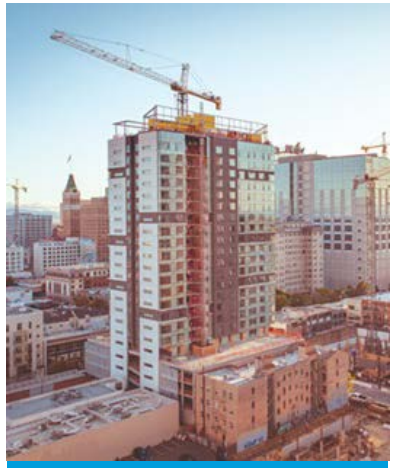
State of the System

A presentation to the Alameda County Transportation Commission

Chris G. Marks, Transportation Planner, Alameda CTC

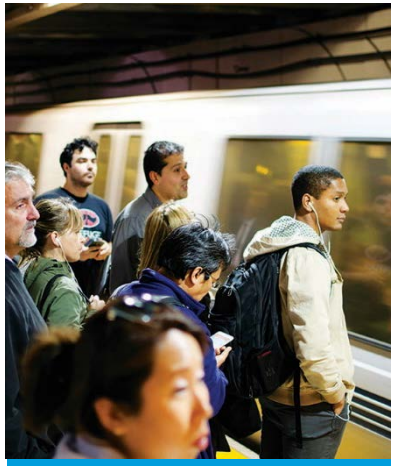
May 30, 2019

State of the System



Local & Regional Economy

Port & Goods Movement



Transit Markets

Congestion

Collisions & Safety

Local & Regional Economy

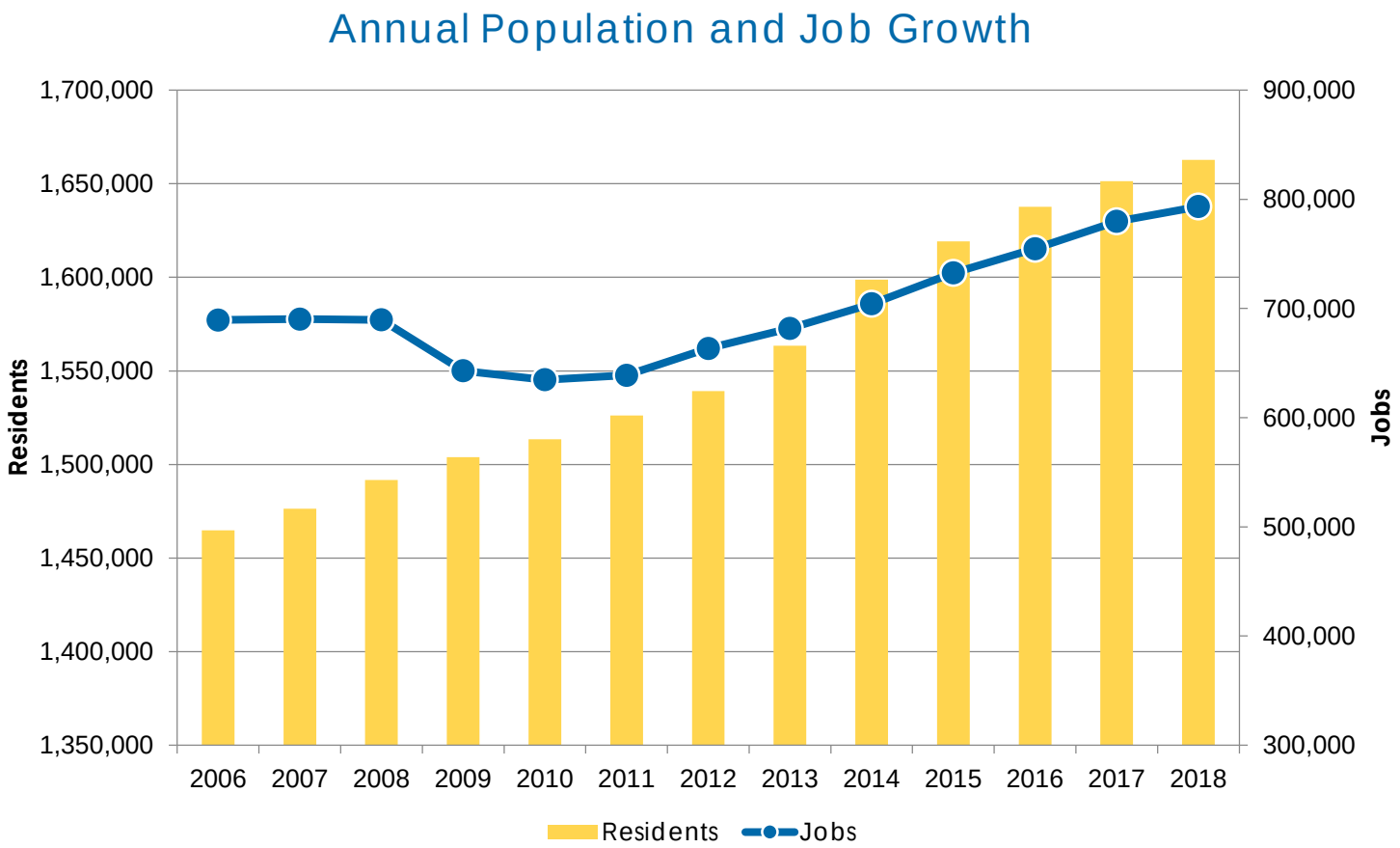
149,000 jobs and 148,000 residents added since the end of the recession

Regional jobs/housing imbalance growing

Bay Area not meeting housing demand

More growth projected

Alameda County continues to grow



2018

15,000 new jobs

11,000 new residents

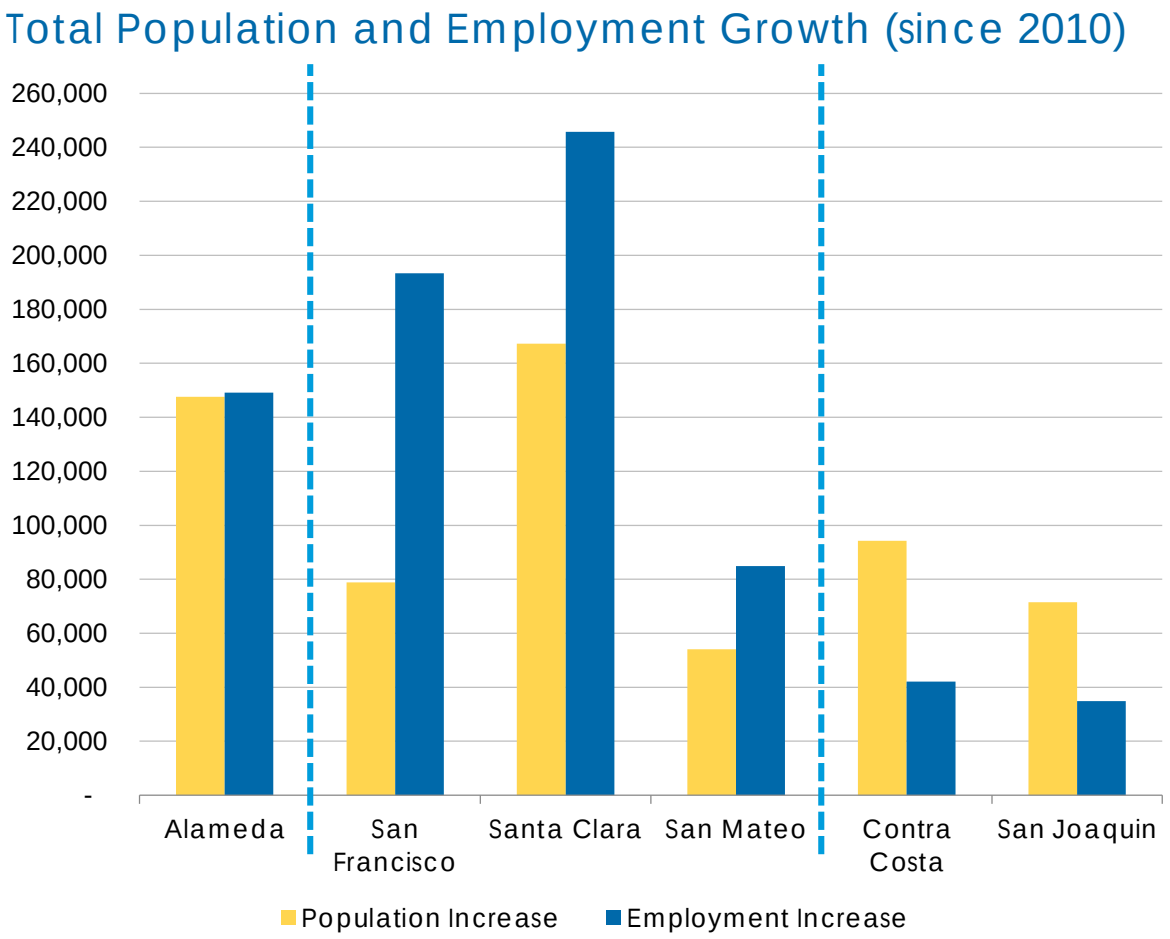
Since 2010

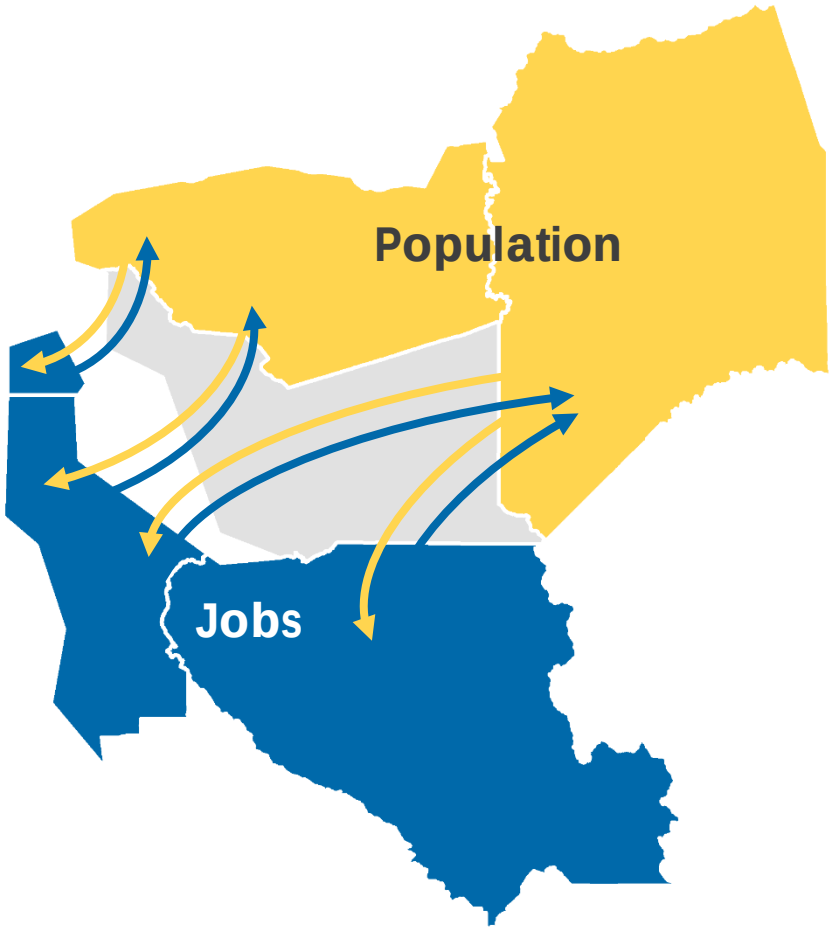
149,000 new jobs

148,000 new residents

Sources: BLS QCEW, 2006-2018 (jobs), DOF 2006-2018 (residents)

Regional Jobs/Population Imbalance





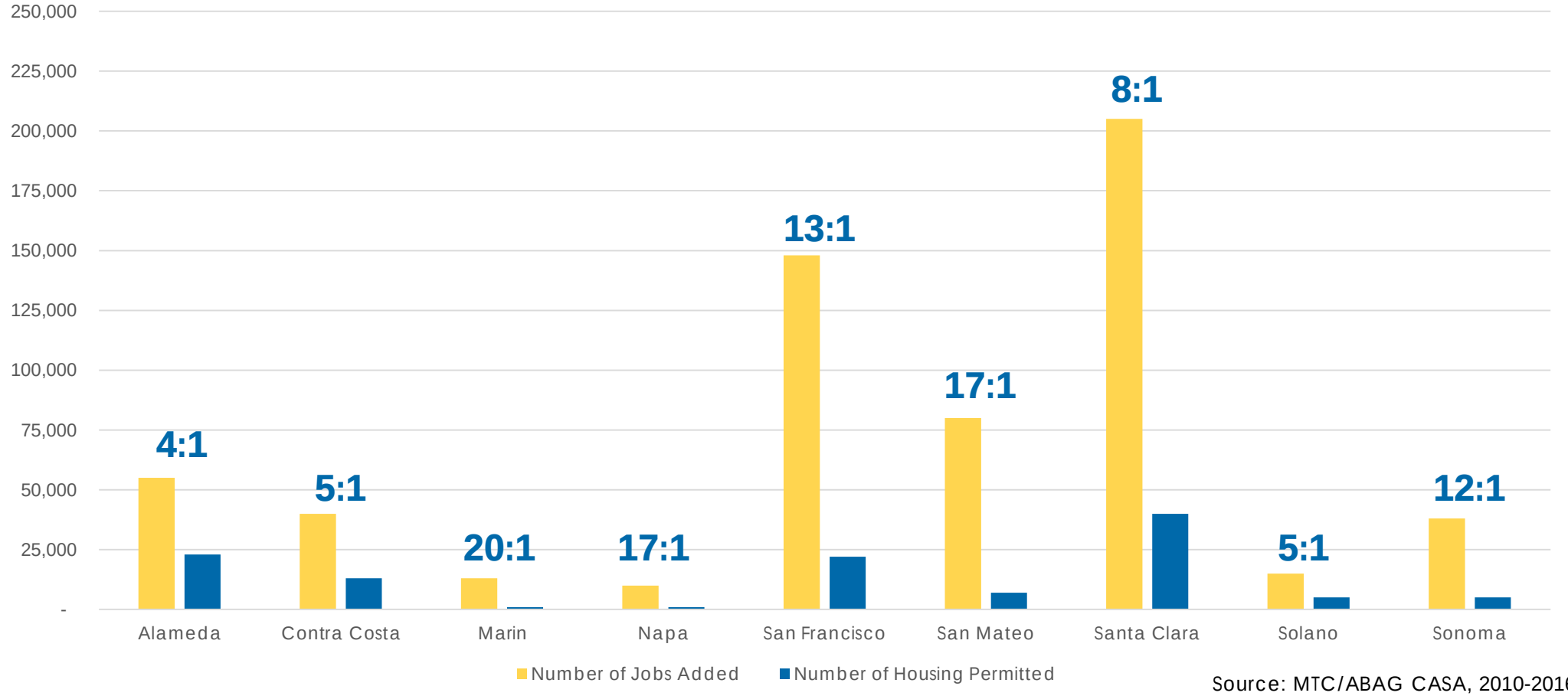
Sources: BLS QCEW, 2006-2017 (jobs), DOF 2006-2017 (residents)

Alameda County has outsized role for trips within the region

Sources: US Census Bureau, PUMS microsample data (2016)

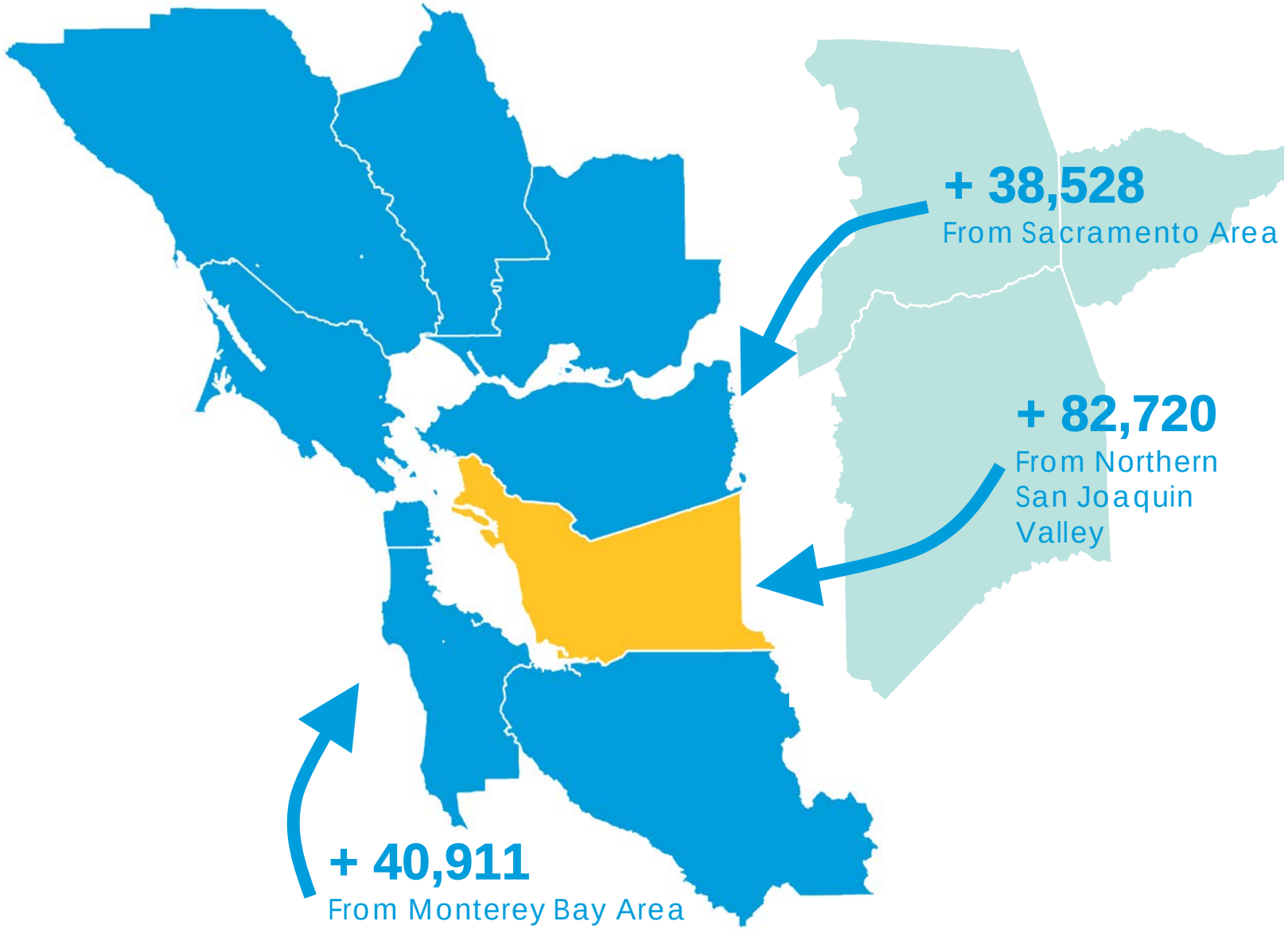
Job growth far surpassed new housing

Ratio of Jobs Added to Housing Permitted (2010 – 2016)



Source: MTC/ABAG CASA, 2010-2016

Change in
Commuter Trips
(2013 - 2016)

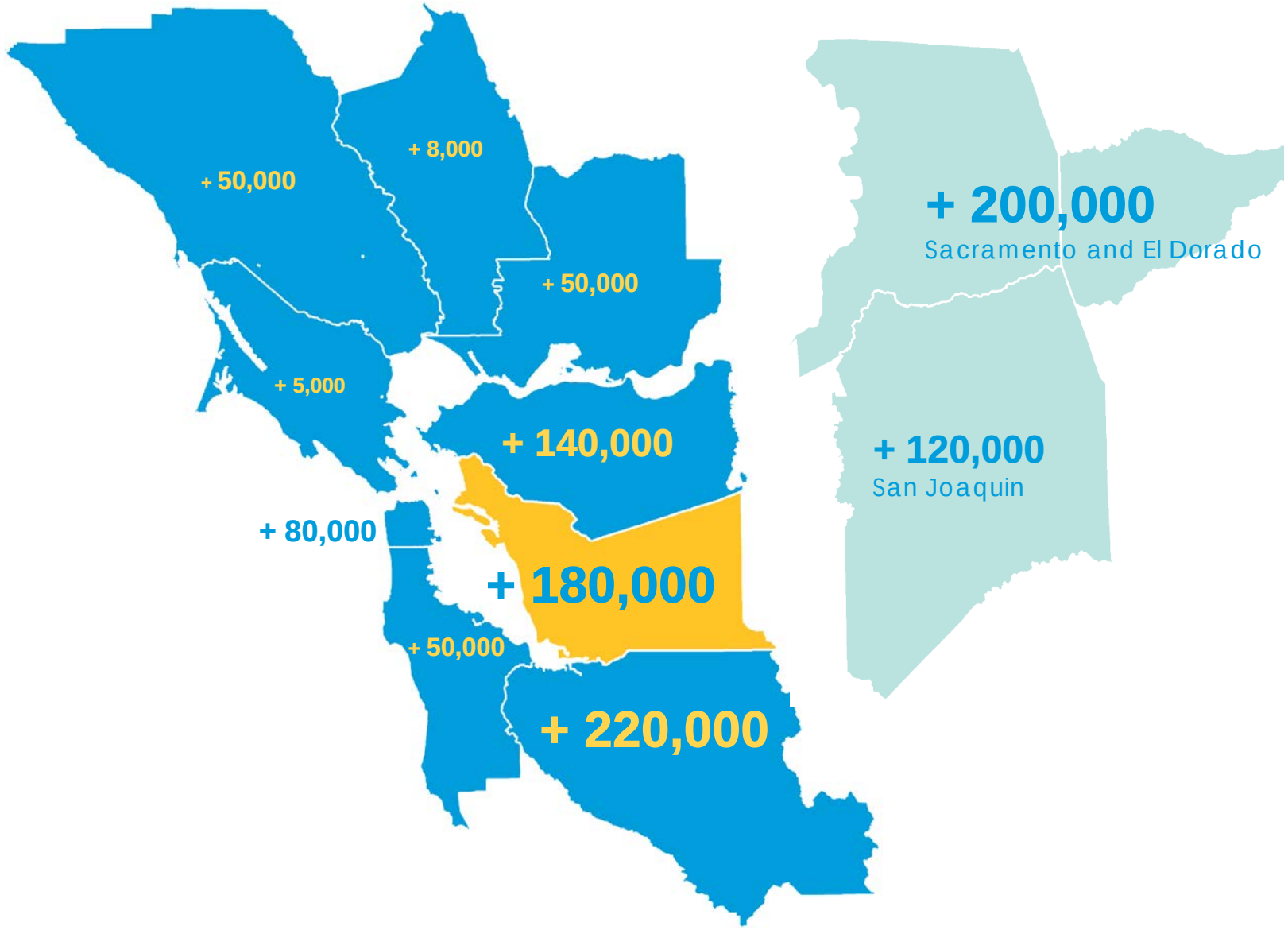


Source: Tri-Valley-San Joaquin Valley Regional Rail Authority

Projected

10-Year Population Growth

(2030)



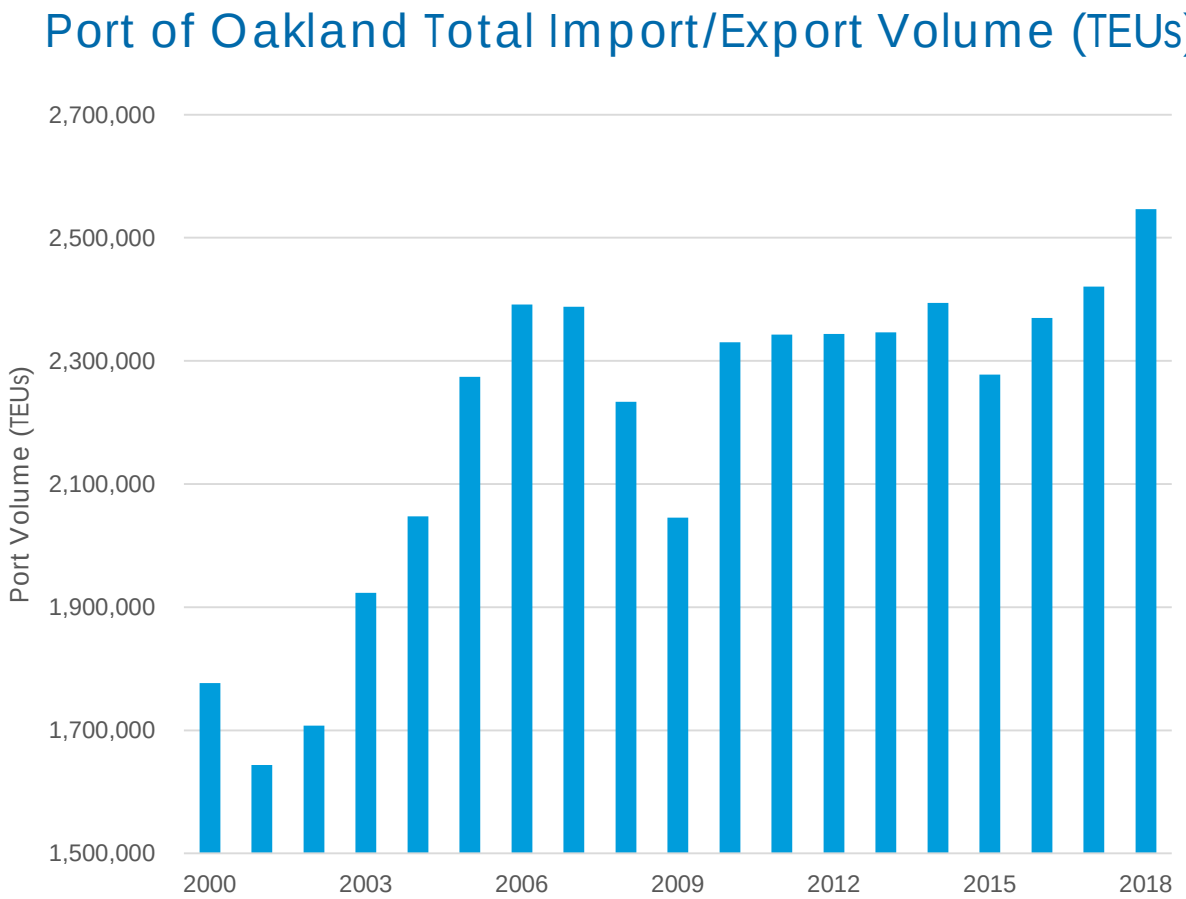
Source: Department of Finance, P-1 Population Projections

Port & Goods Movement

Port completed recovery from the recession, and is continuing to grow

Rail projected to play a critical role in that growth

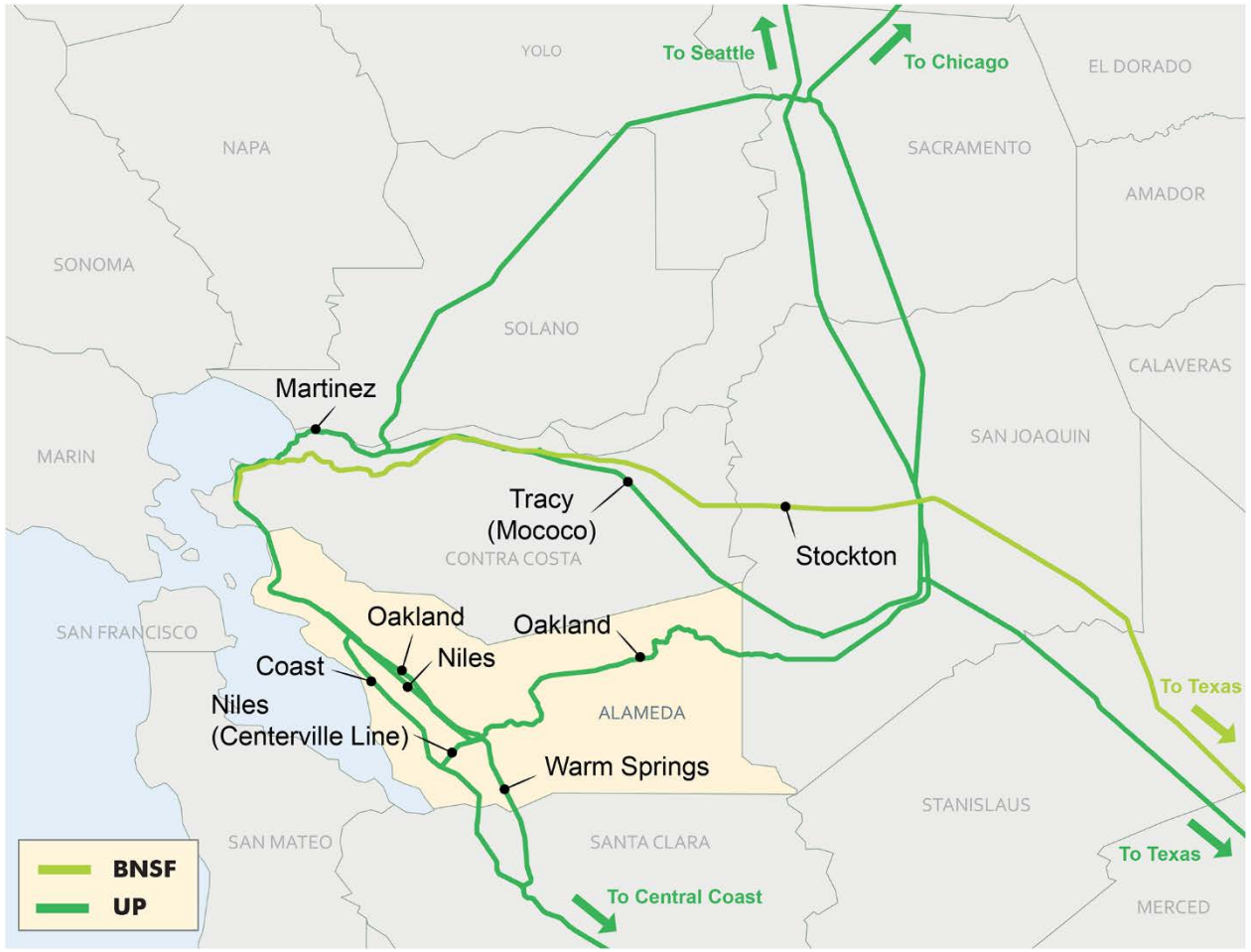
Port of Oakland setting volume records



- **2017** Port fully recovered from the recession
- **2018** new container volume record, 2.5 million TEUs
- **2019** continued growth
- **2022** projected* to reach 2.6 million TEUs

Source: Port of Oakland, *Port of Oakland Strategic Plan

Rail use expected to grow



- Roughly 23% of goods shipped by rail today
- Projected to increase to 40%
- Passenger rail also continues to grow

Sources: Alameda CTC Rail Strategy Study

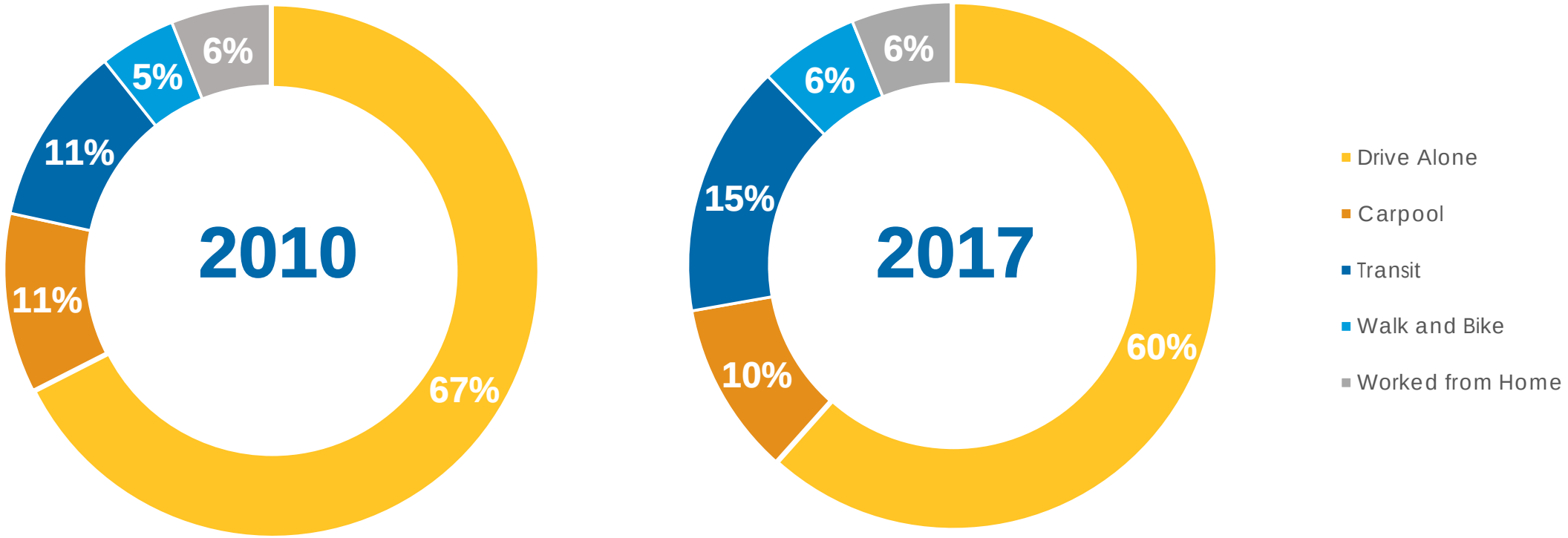
Transit Markets

Alameda County has the second most multimodal commutes in the state

Transit markets in flux

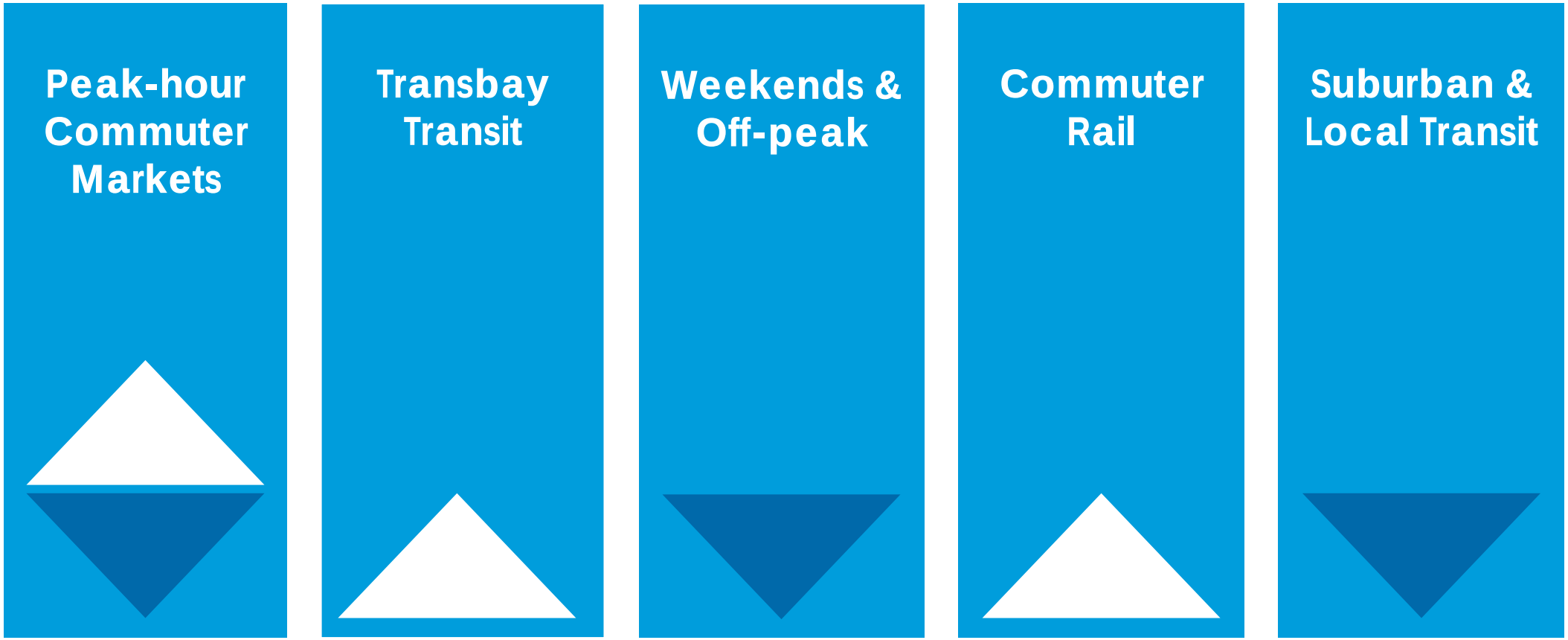
Transit operators making changes to stay competitive with new mobility options

Commuters moving away from cars



Sources: American Community Survey 1-year Estimate, 2010, 2017

Transit markets in flux



Peak-hour Commuter Markets: in flux

Peak-hour Commuter Markets

Transbay Transit: Demand strong

Transbay Transit

Weekends & Off-peak: Demand falling

Weekends & Off-peak

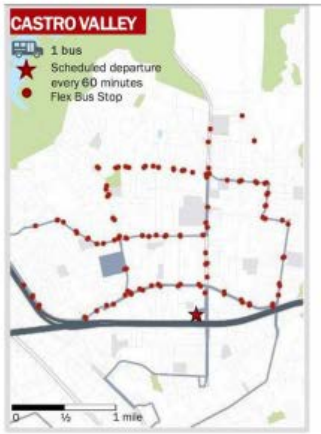
Commuter Rail: Demand strong

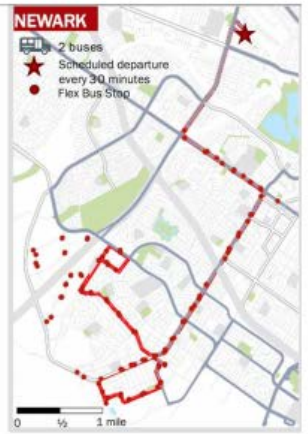
Commuter Rail

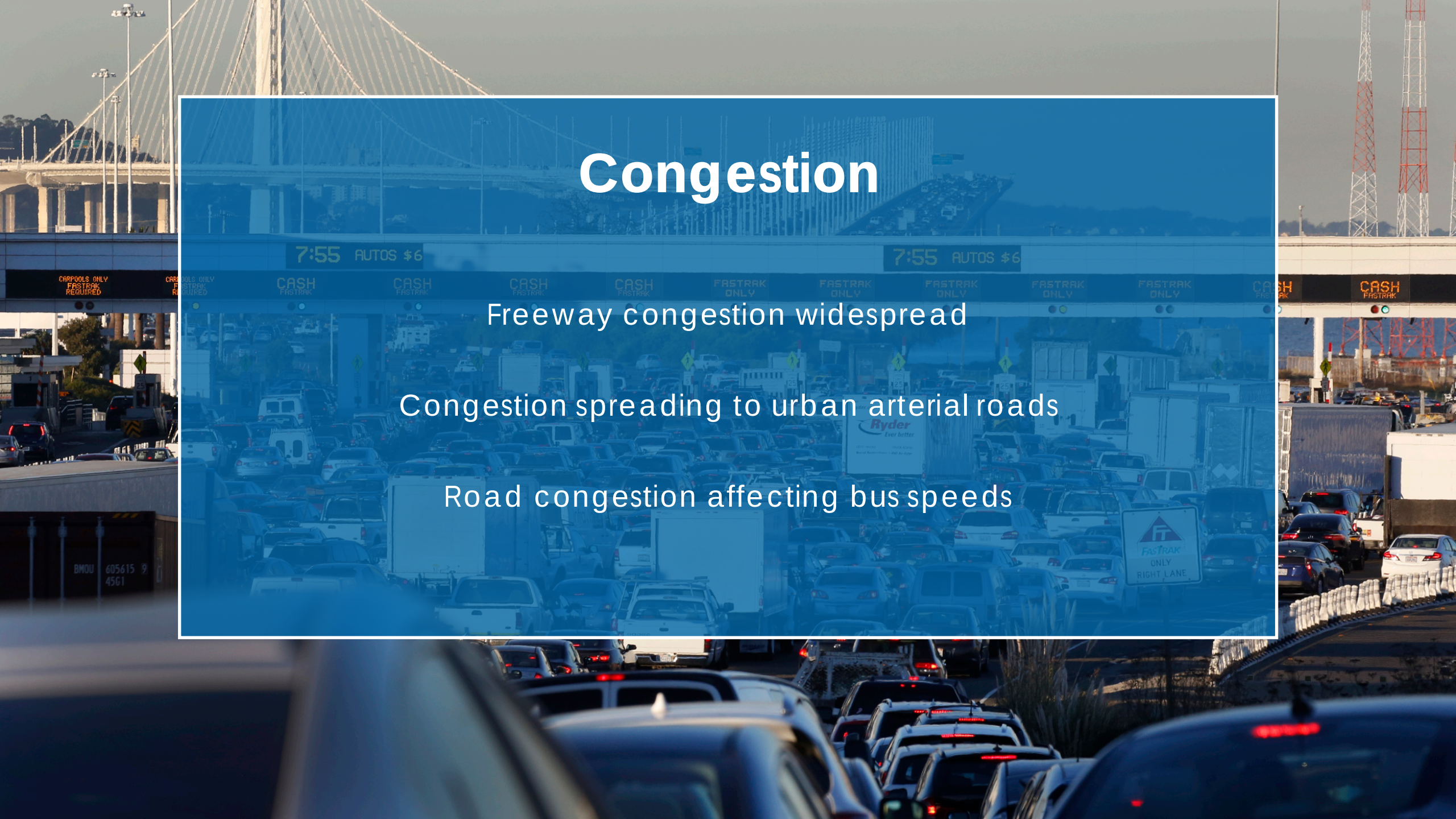
Suburban & Local Transit: Demand falling

Suburban & Local Transit

Service changes underway







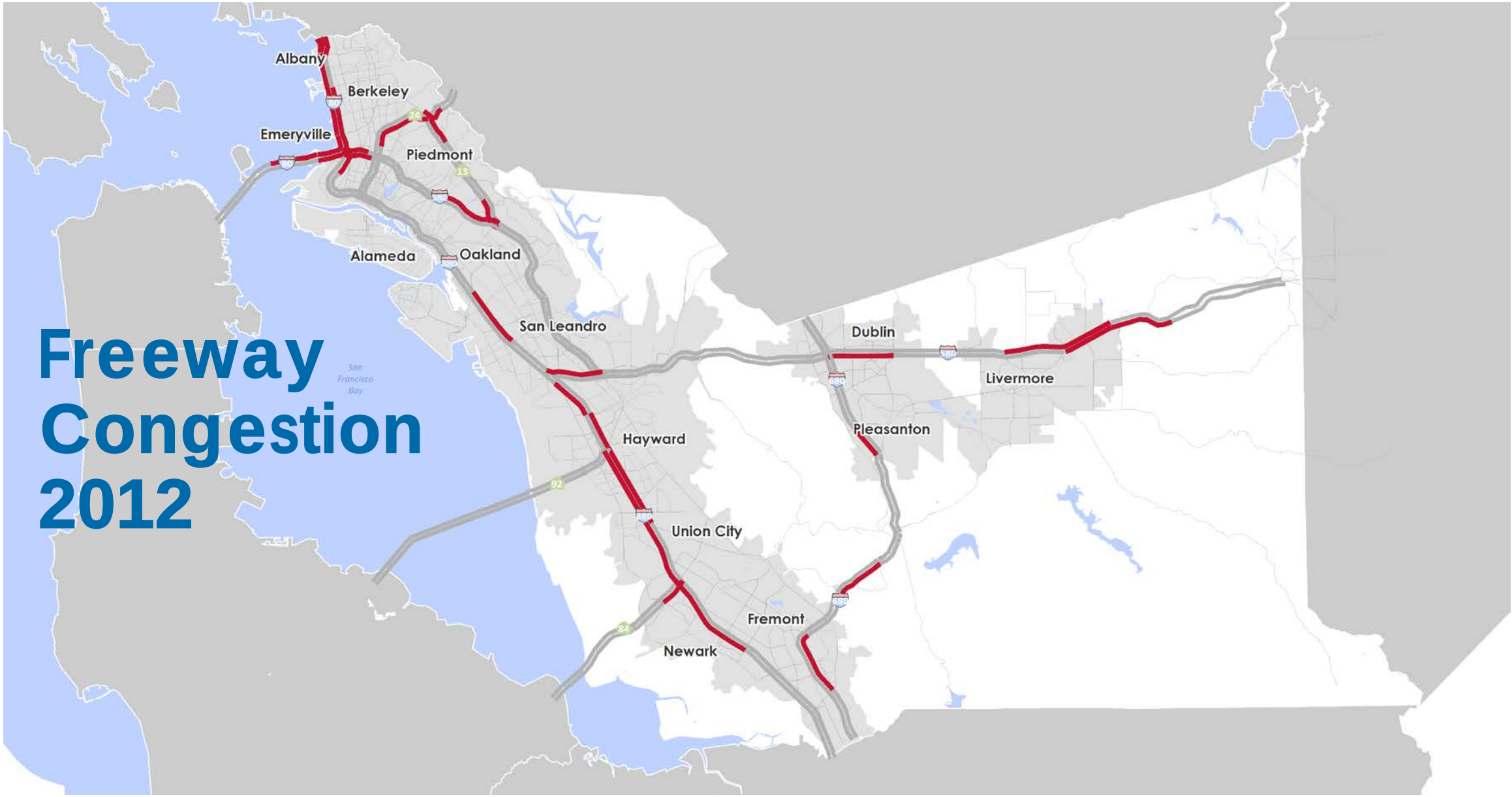
Congestion

Freeway congestion widespread

Congestion spreading to urban arterial roads

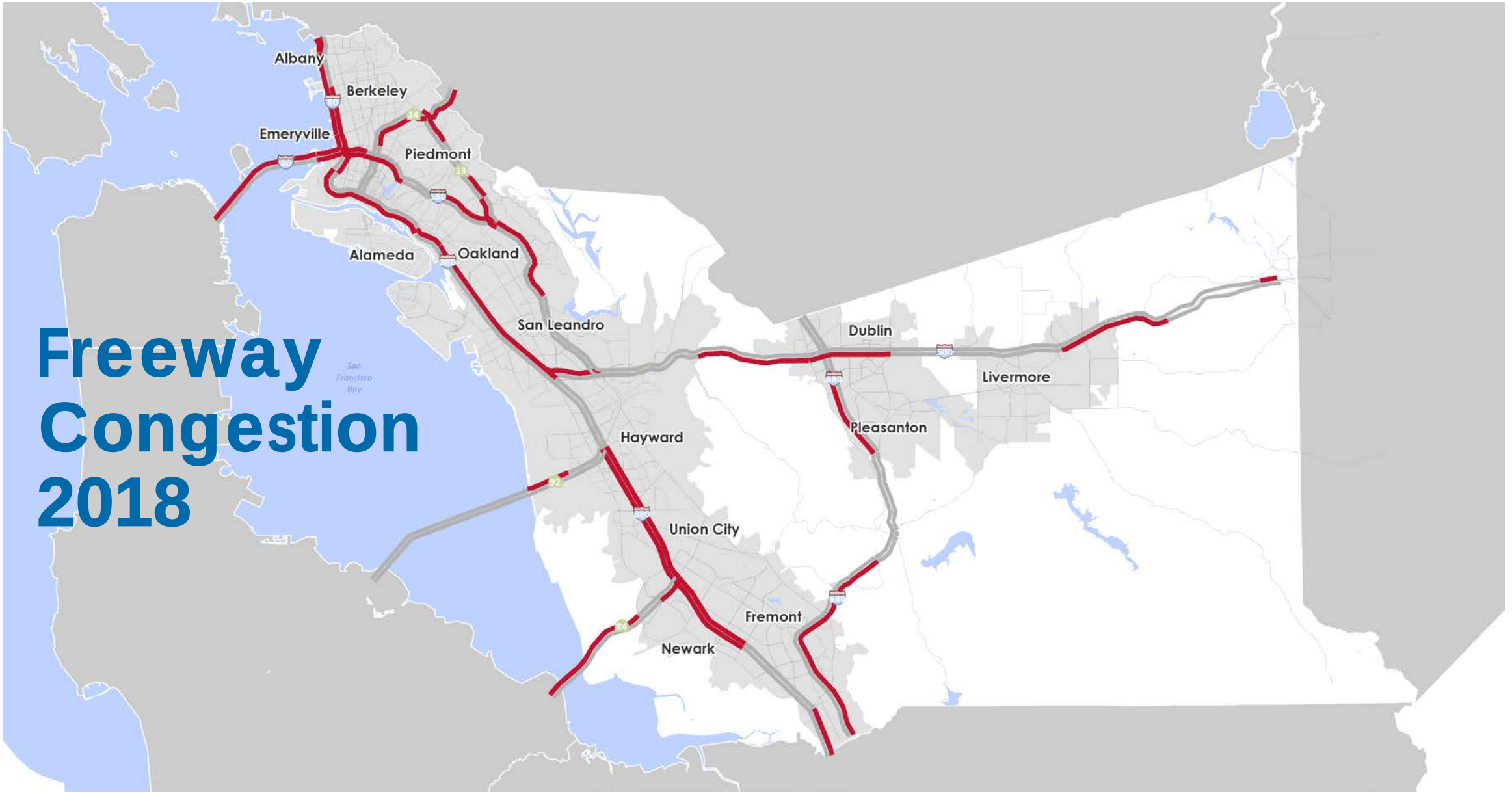
Road congestion affecting bus speeds

Freeway Congestion 2012



Sources: Alameda CTC LOS Monitoring Report, 2012

Freeway Congestion 2018

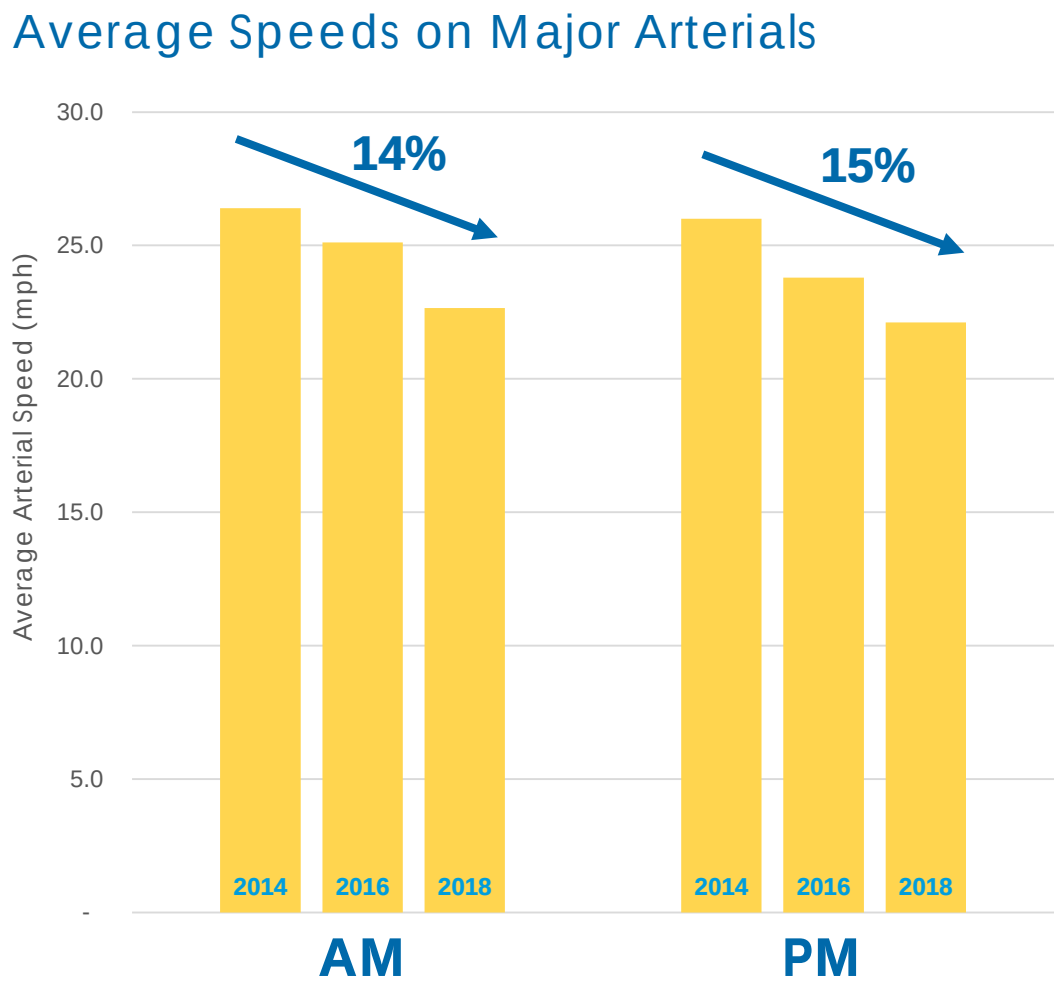


Sources: Alameda CTC LOS Monitoring Report, 2018

Freeway Congestion 2012-2018

Sources: Alameda CTC LOS Monitoring Report; 2012, 2018

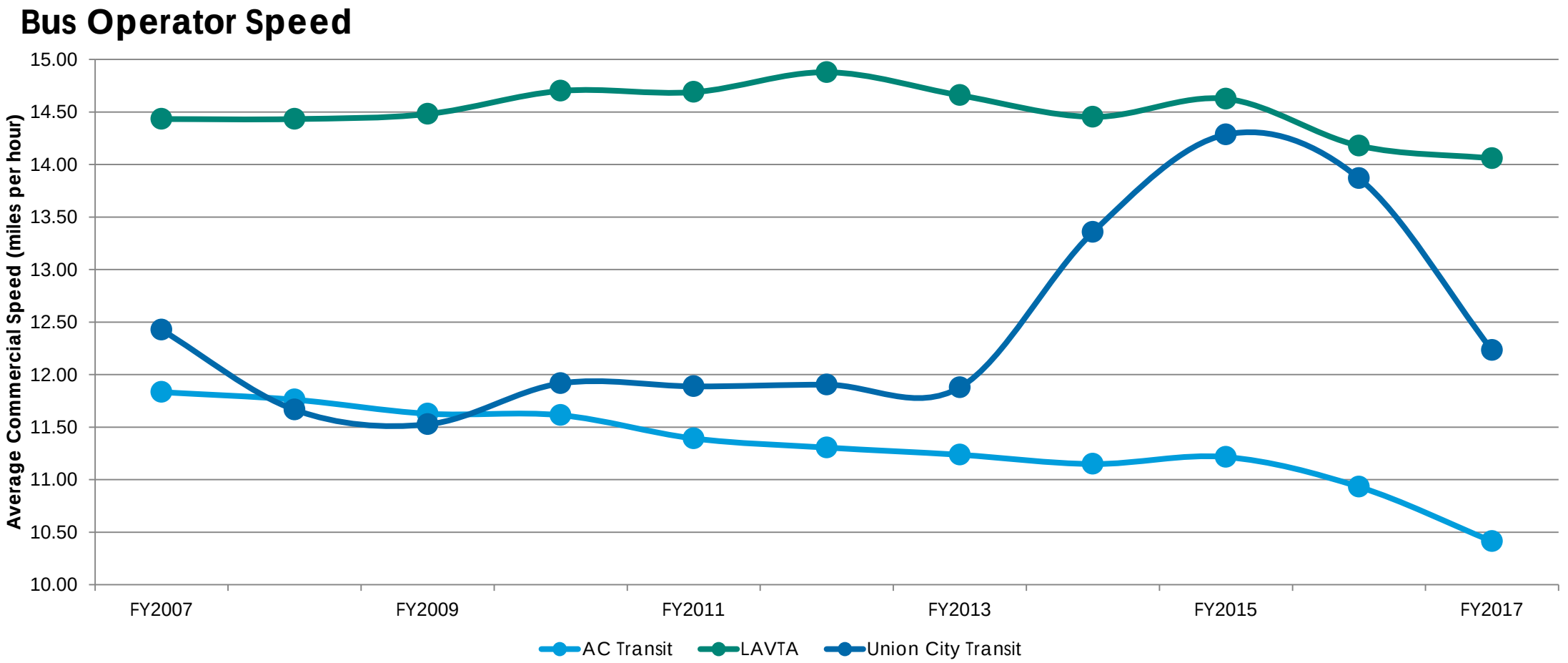
Congestion spreading to arterial roads



- Arterial road speeds have been in decline since data collection began in 2014
- Morning speeds on arterials dropped more than 2.5 mph between 2016 and 2018
- App-routed traffic may be influencing this

Sources: 2018 LOS Monitoring Report

Bus speeds tied to congestion



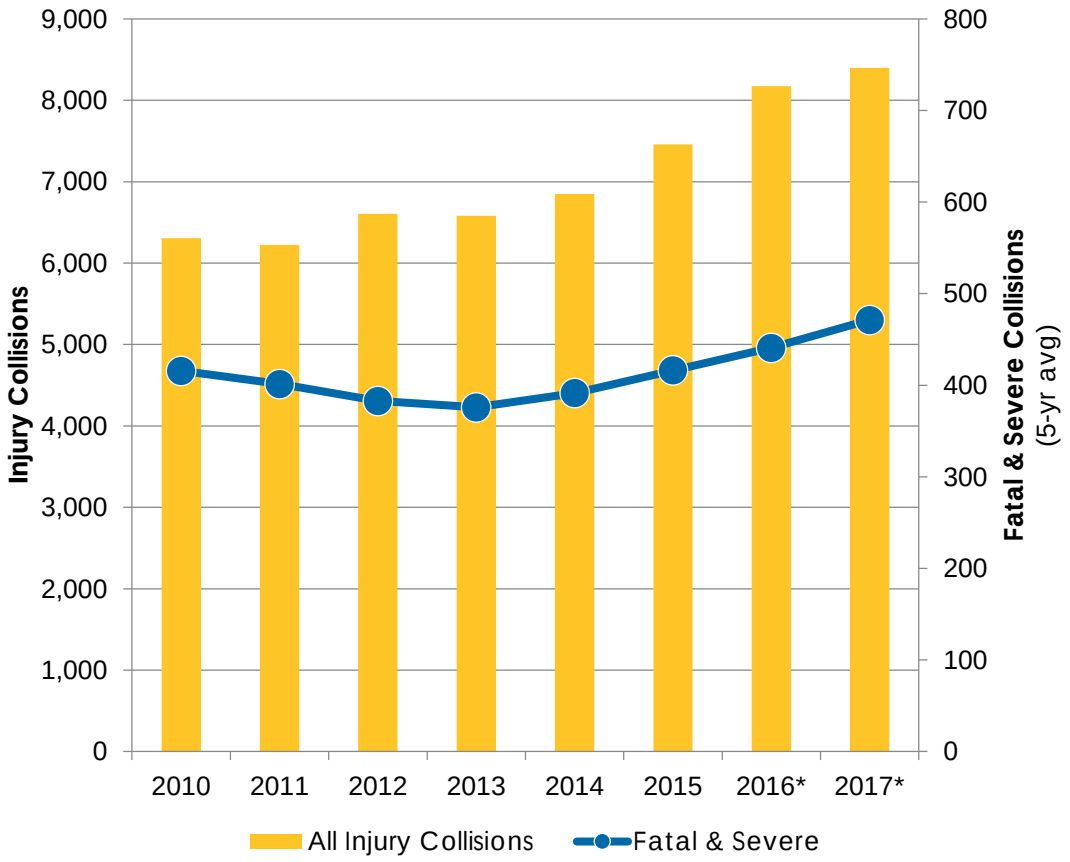
Collisions & Safety

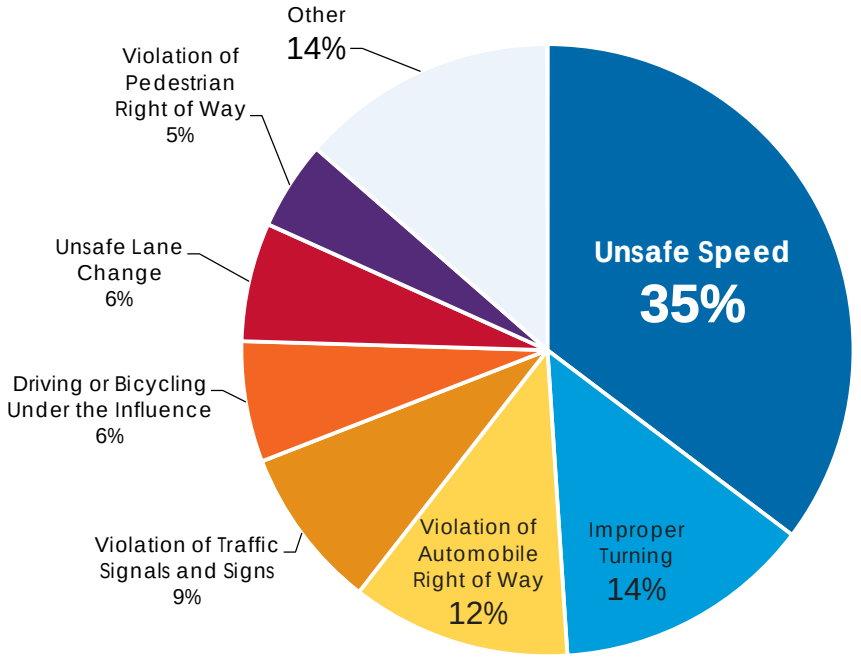
Total collisions increasing

Bikes/pedestrians the most vulnerable

Competition for the same roadways creating conflict

Collisions increased, speeding the most common cause

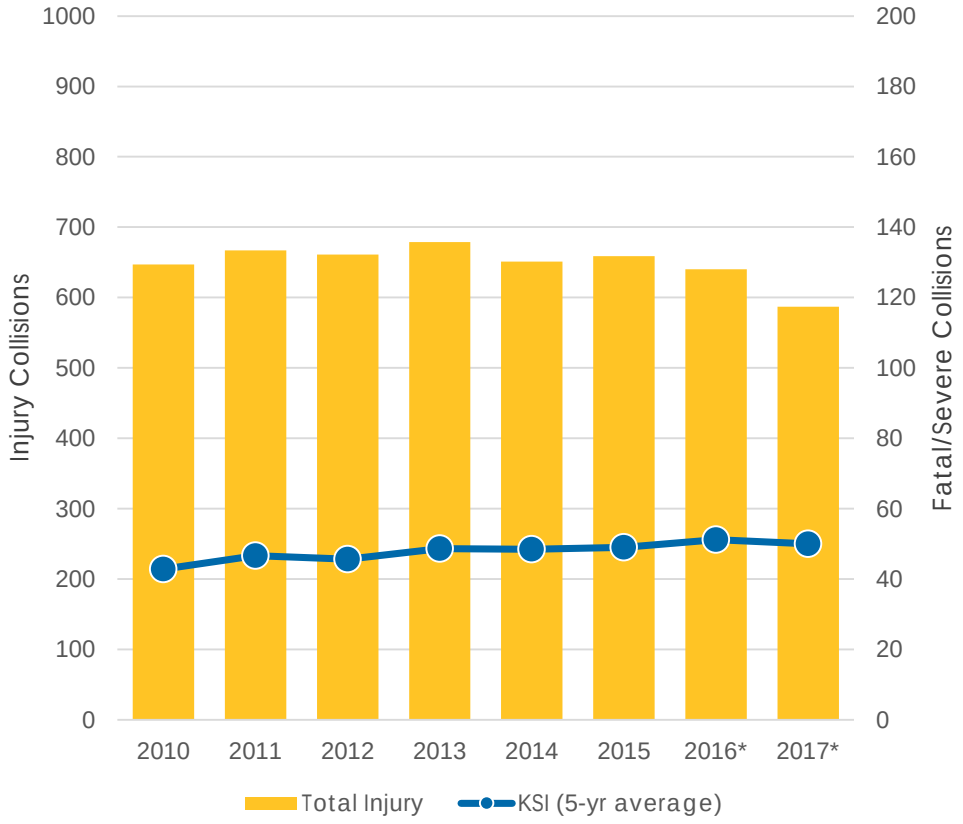




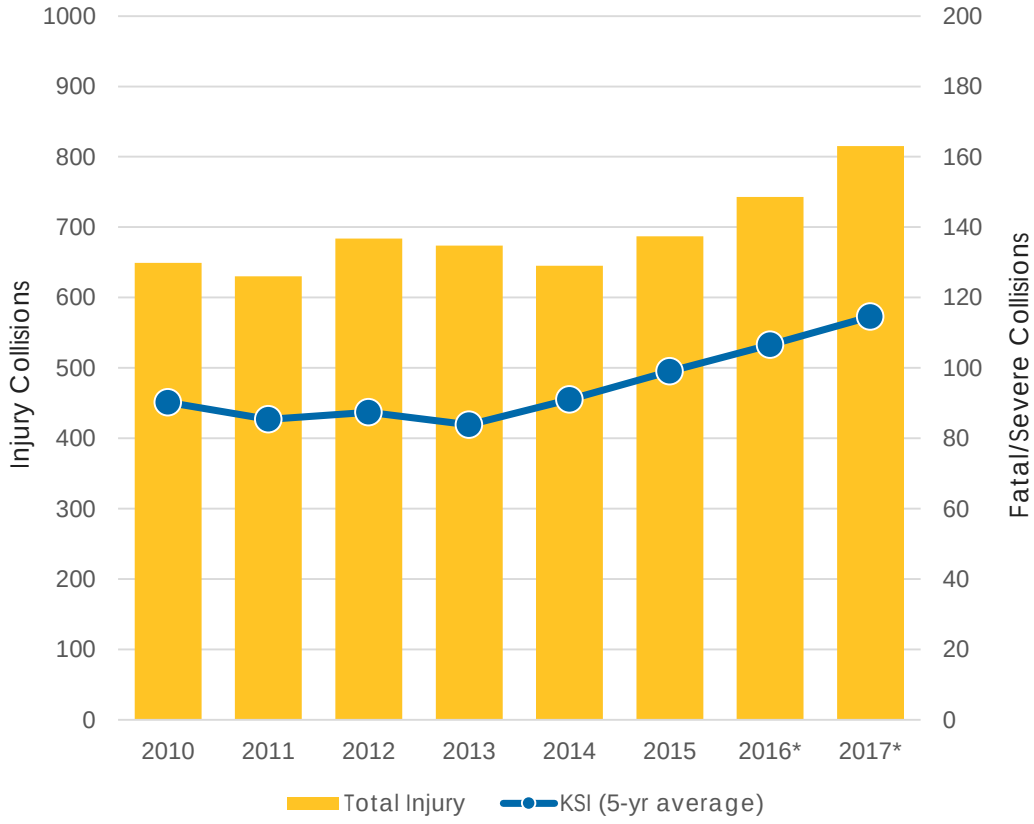
Sources: SWITRS via TIMS 2006-2017

People walking and biking are most vulnerable

Bike Collisions

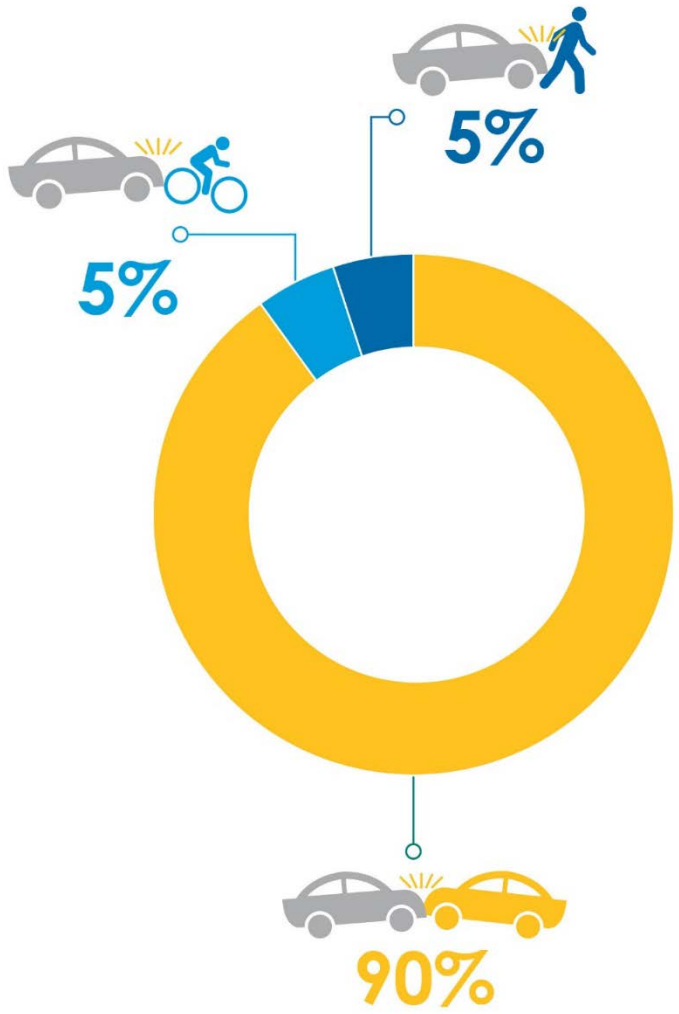


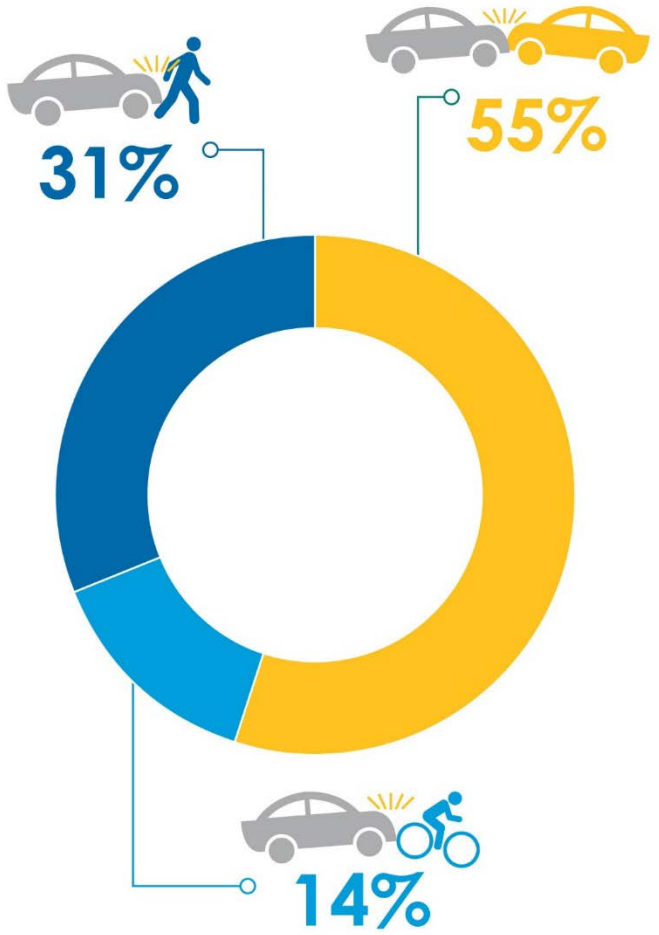
Pedestrian Collisions



Sources: SWITRS via TIMS 2006-2016

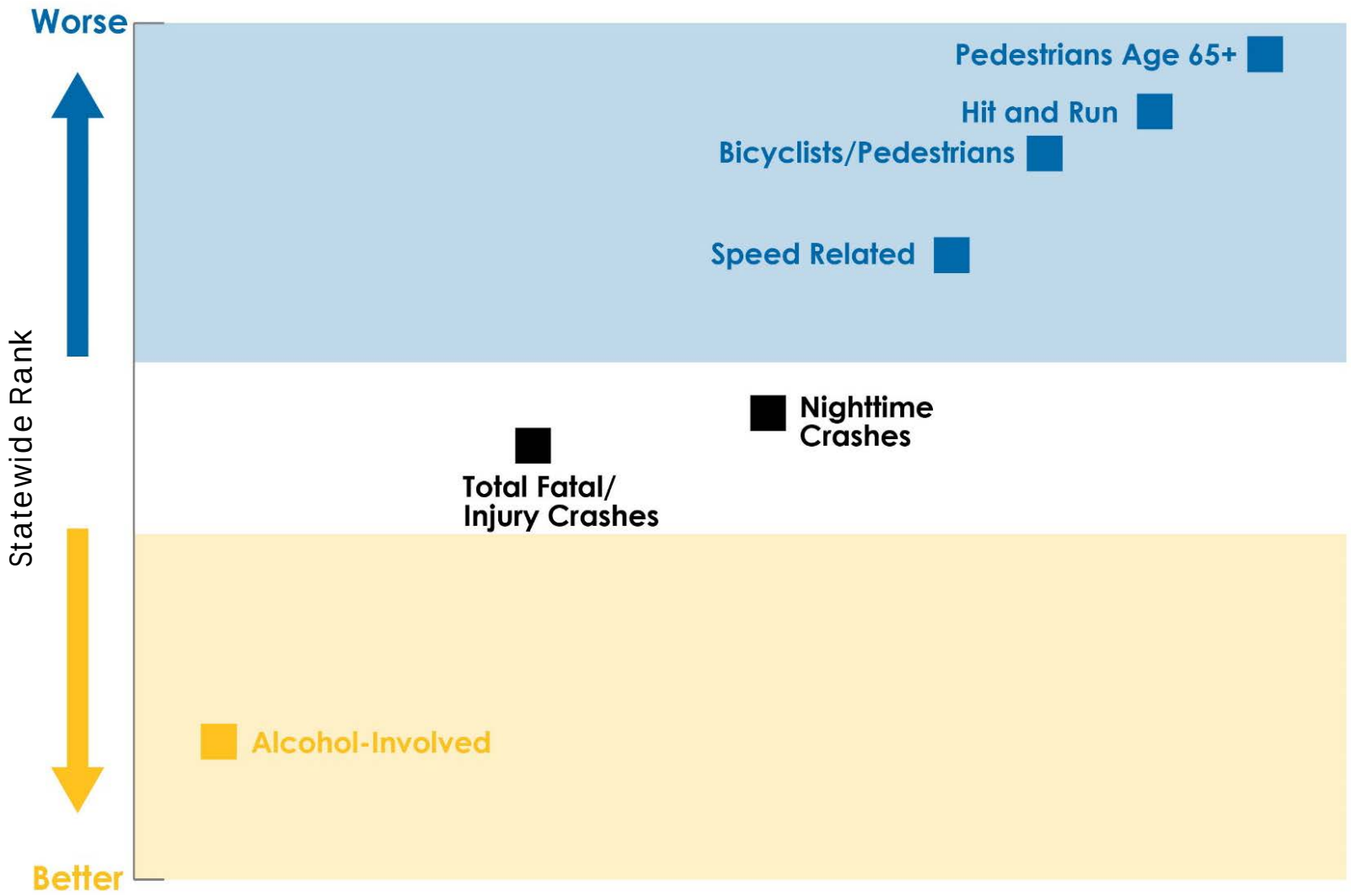
Bikes and Pedestrians, the most vulnerable





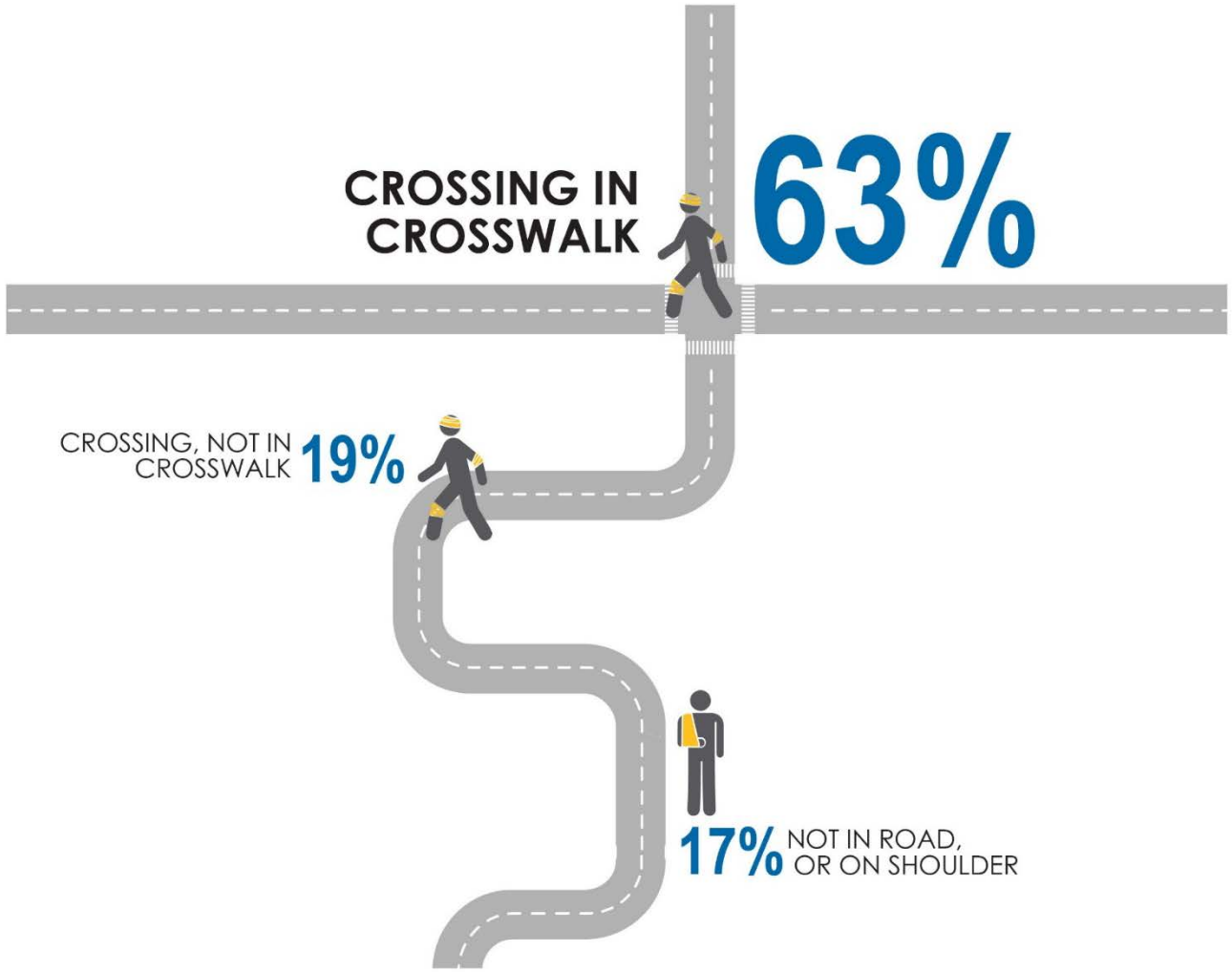
Sources: SWITRS via TIMS 2012-2016

Focus Areas
Types of Collisions



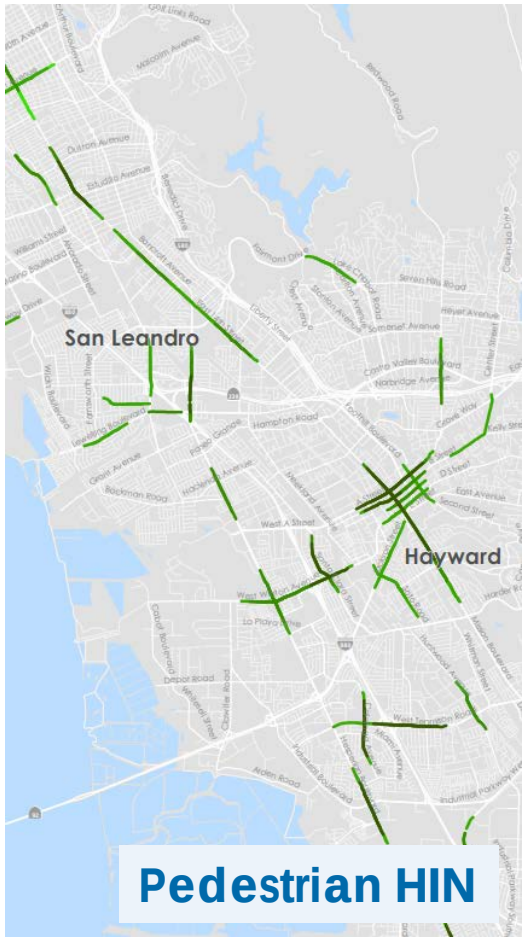
Source: OTS 2015

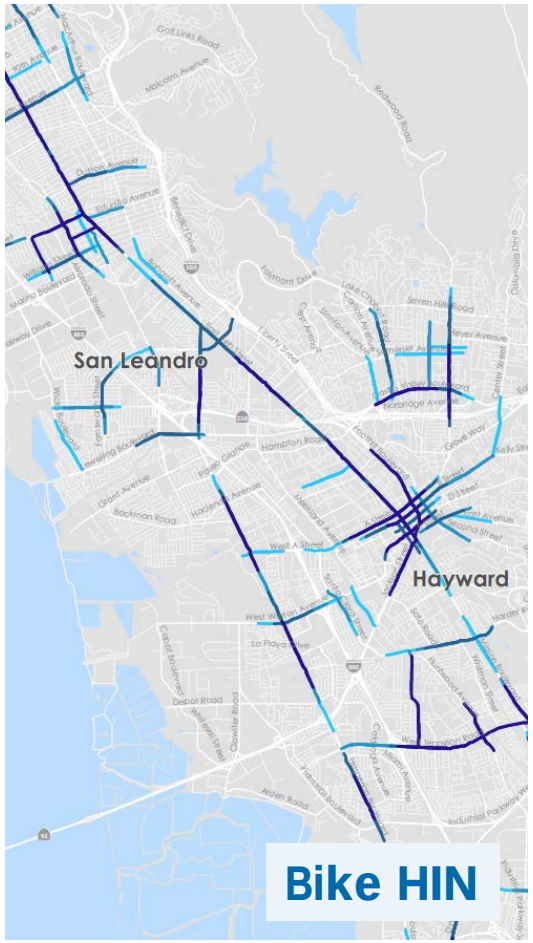
Pedestrians: Most struck in crosswalks

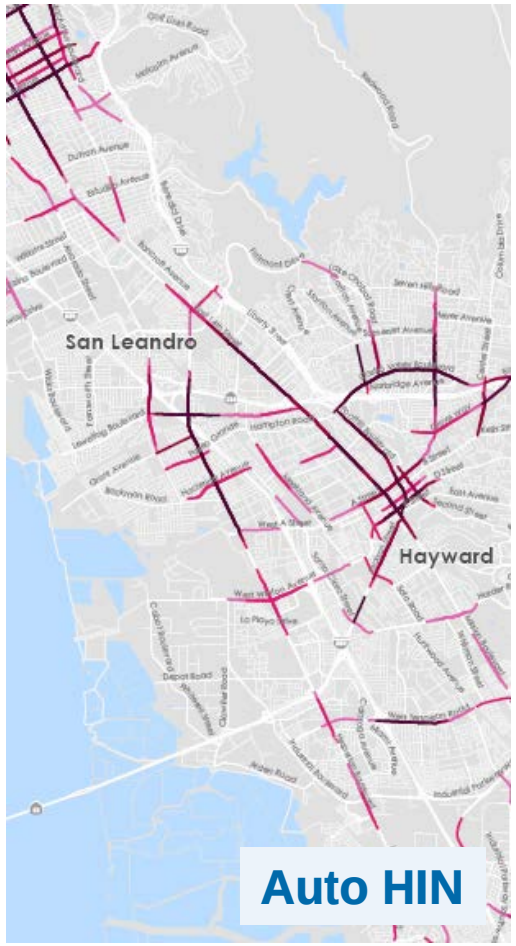


Sources: SWITRS via TIMS 2012-2016

High-injury Networks







Collisions:

65% of pedestrian

59% of bike and

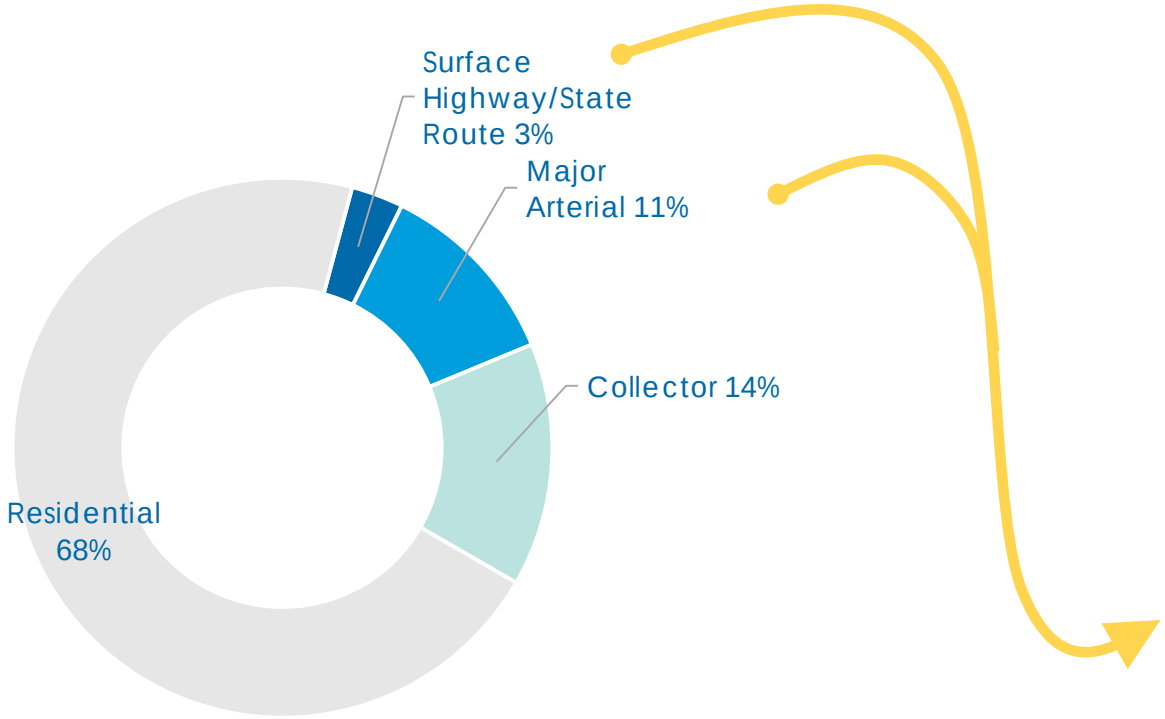
60% of auto

occur on just

4%

of roads

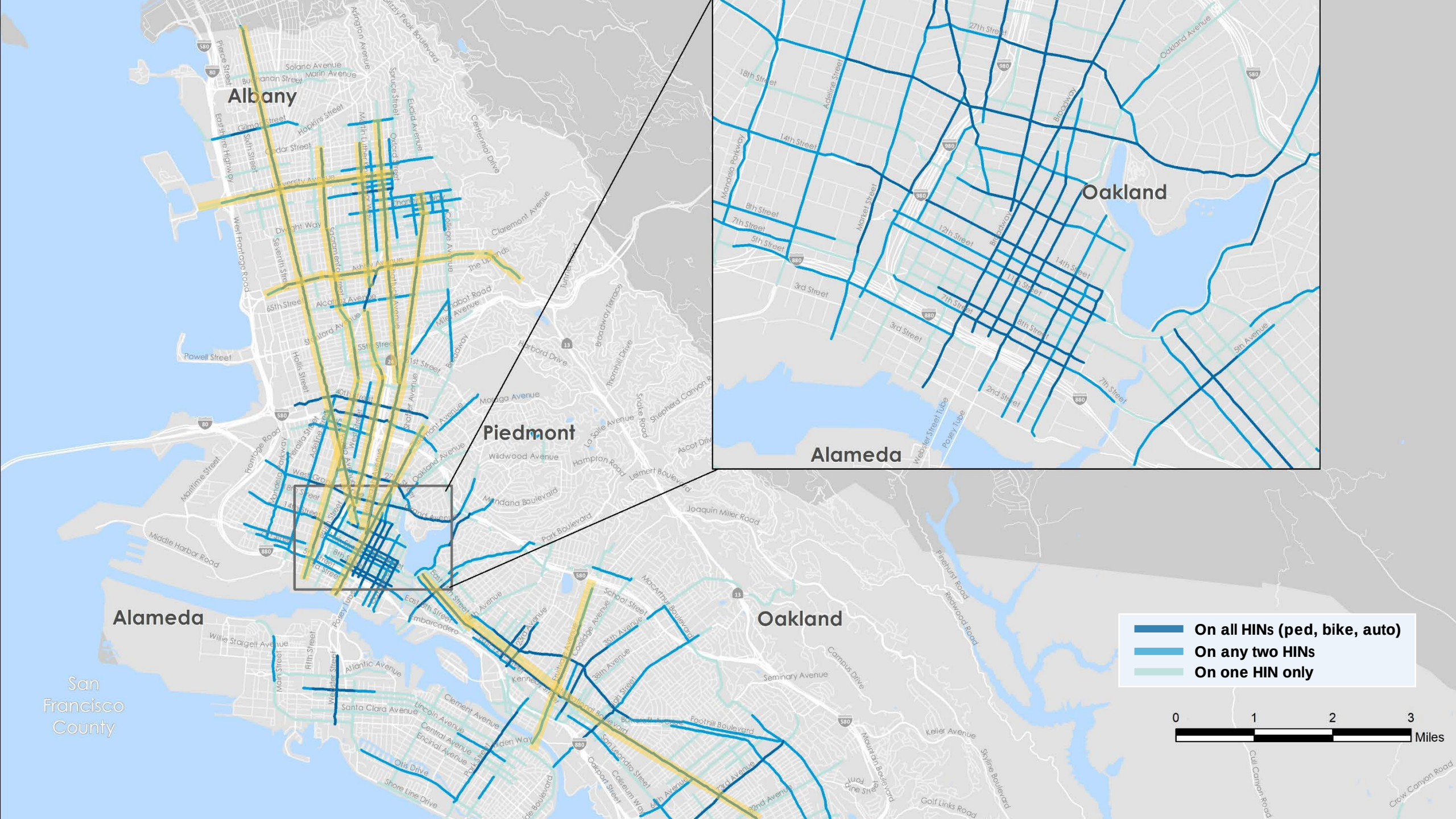
Most collisions occur on highways and major arterials

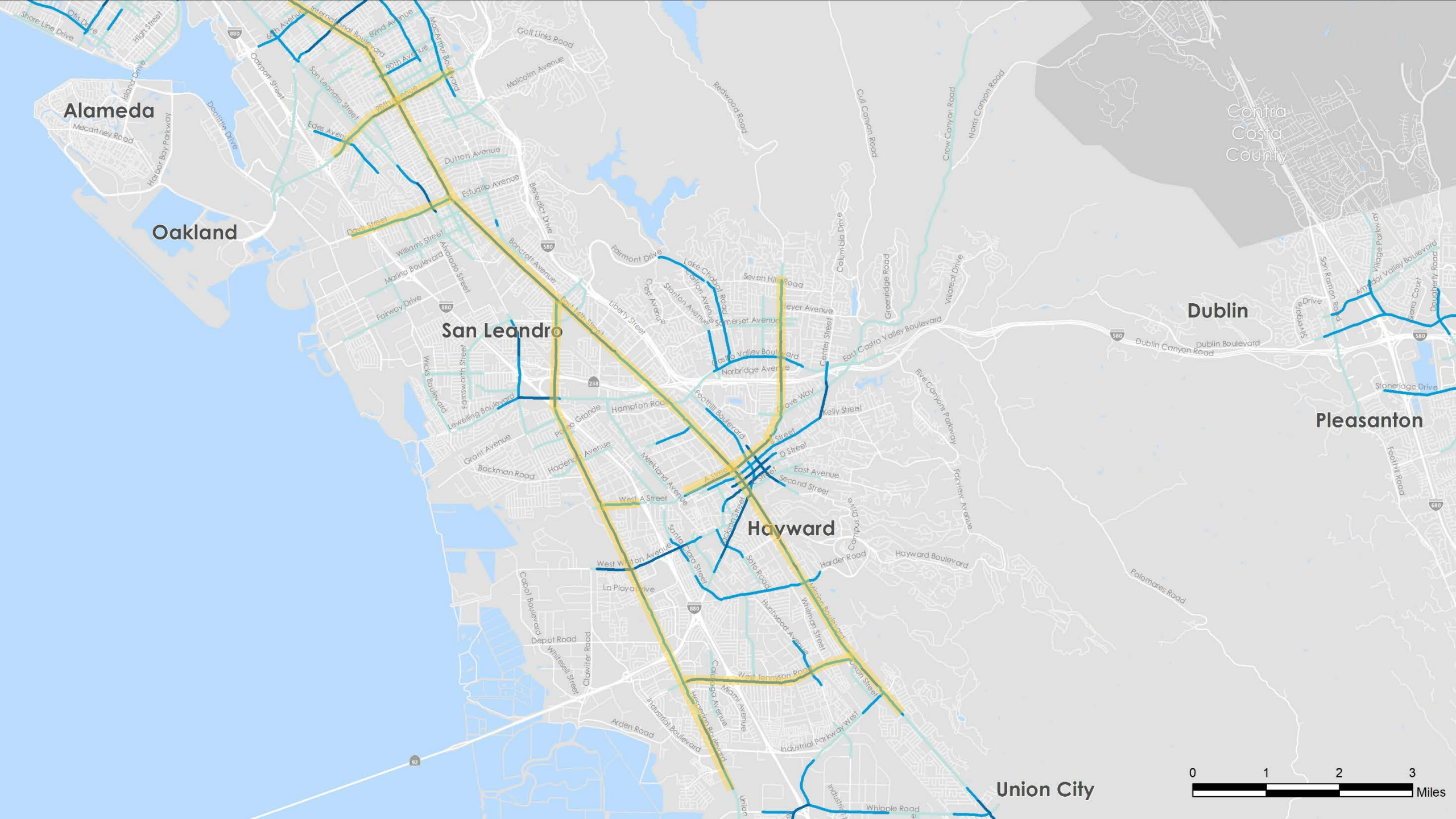


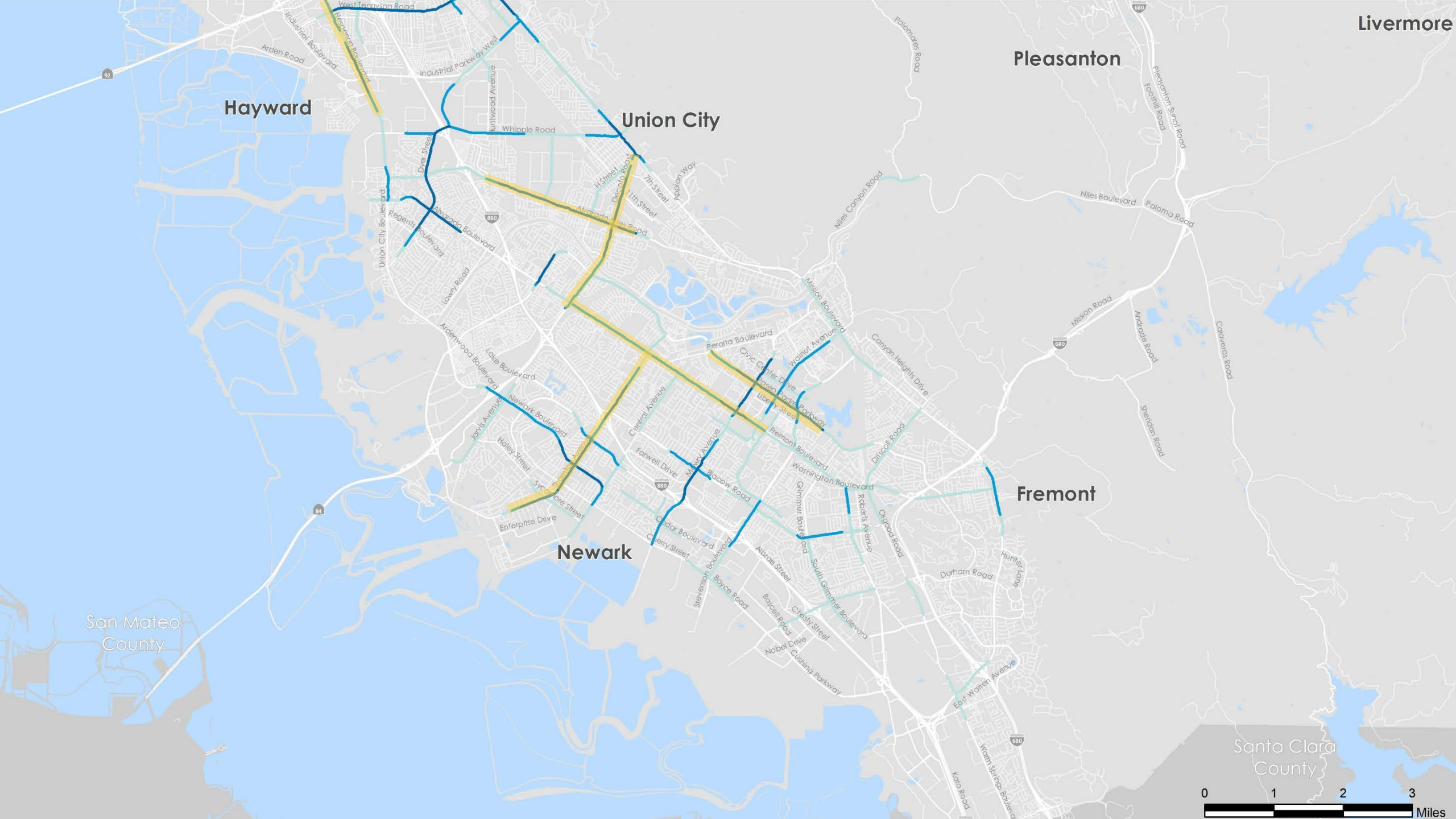
Highways and major arterials account for just **14% of road miles** in Alameda County but account for:

71% of auto HIN

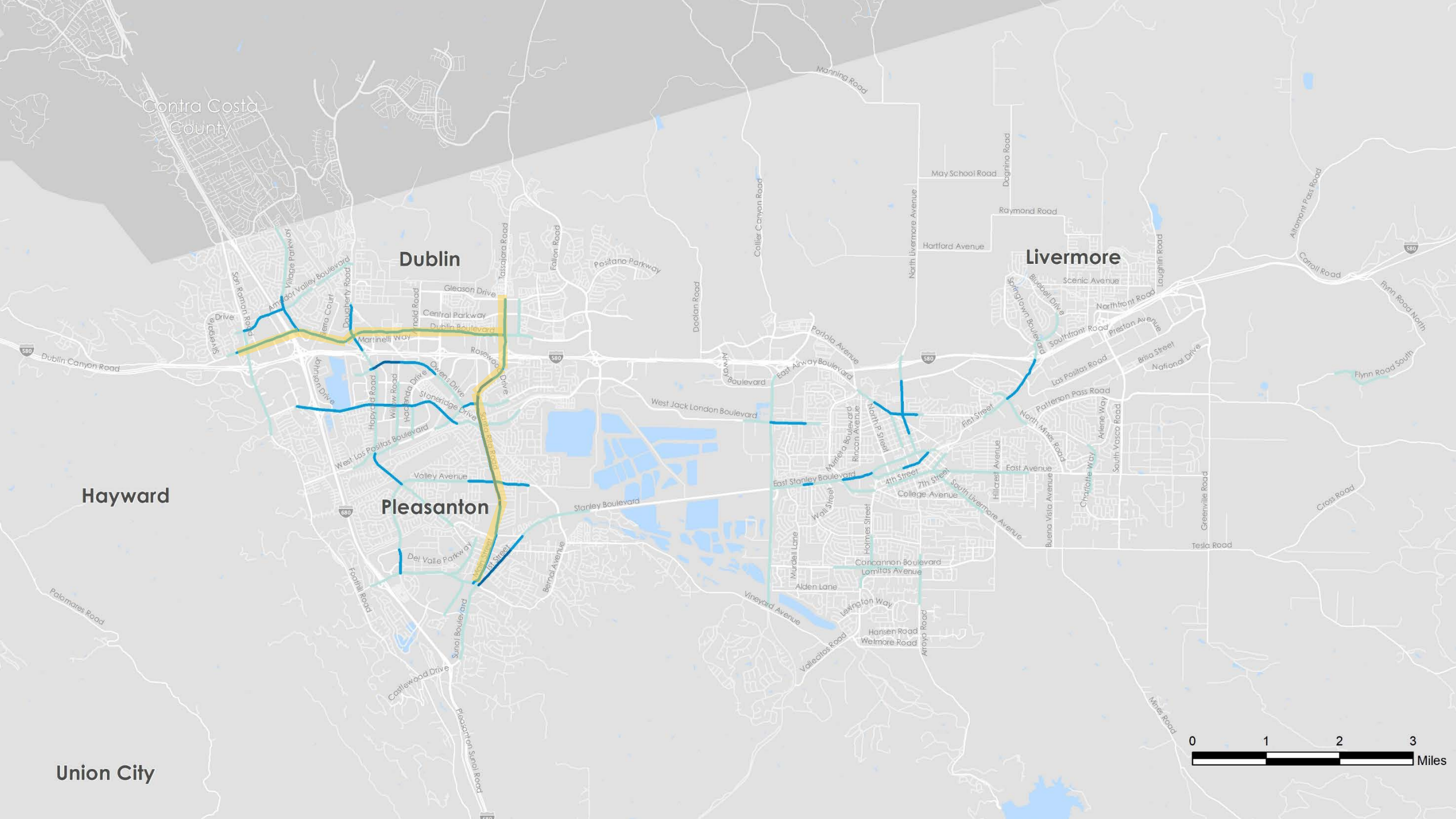
51% of bike and ped HINs


Albany
Piedmont
Oakland
Alameda
Alameda
Oakland
San Francisco County
On all HINs (ped, bike, auto)
On any two HINs
On one HIN only
0
1
2
3
Miles


Alameda
Oakland
San Leandro
Hayward
Union City
Dublin
Pleasanton
Contra Costa County
0
1
2
3
Miles



Livermore
Pleasanton
Hayward
Union City
Fremont
Newark
San Mateo County
Santa Clara County
West Tennyson Road
Industrial Boulevard
Arden Road
Hesperian Boulevard
Industrial Parkway West
Huntwood Avenue
Whipple Road
Dyer Street
Union City Boulevard
Regents Boulevard
Alvarado Boulevard
Lowry Road
Alvarado-Niles Road
H Street
Decoto Road
11th Street
7th Street
Appian Way
Palomares Road
Niles Canyon Road
Pleasanton Sunol Road
Foothill Road
Niles Boulevard
Paloma Road
Mission Boulevard
Mission Road
Andrade Road
Calaveras Road
Sheridan Road
Canyon Heights Drive
Peralta Boulevard
Walnut Avenue
Civic Center Drive
Paseo Padre Parkway
Liberty Street
Fremont Boulevard
Washington Boulevard
Driscoll Road
Ardenwood Boulevard
Lake Boulevard
Newark Boulevard
Jarvis Avenue
Haley Street
Sycamore Street
Enterprise Drive
Central Avenue
Farwell Drive
Mowry Avenue
Blacow Road
Cedar Boulevard
Cherry Street
Stevenson Boulevard
Bayce Road
Albrae Street
Grimmer Boulevard
South Grimmer Boulevard
Roberts Avenue
Osgood Road
Durham Road
Hunter Lane
Boscell Road
Christy Street
Nobel Drive
Cushing Parkway
East Warren Avenue
Warm Springs Boulevard
Kato Road
0
1
2
3
Miles


Contra Costa County
Dublin
Livermore
Pleasanton
Hayward
Union City
Manning Road
May School Road
Raymond Road
Hartford Avenue
Dagnino Road
Altamont Pass Road
Carroll Road
Flynn Road North
Flynn Road South
Scenic Avenue
Bluebell Drive
Springtown Boulevard
Northfront Road
Southfront Road
Preston Avenue
Brisa Street
National Drive
Laughlin Road
Las Positas Road
Patterson Pass Road
North Mines Road
Arlene Way
South Vasco Road
First Street
East Avenue
Hillcrest Avenue
South Livermore Avenue
Charlotte Way
Buena Vista Avenue
Greenville Road
Cross Road
Tesla Road
Mines Road
College Avenue
7th Street
4th Street
East Stanley Boulevard
Murrieta Boulevard
Rincon Avenue
North P Street
Well Street
Holmes Street
Murdell Lane
Concannon Boulevard
Lomitas Avenue
Alden Lane
Lexington Way
Hansen Road
Wetmore Road
Arroyo Road
Vallecitos Road
Vineyard Avenue
Portola Avenue
East Airway Boulevard
Airway Boulevard
Collier Canyon Road
North Livermore Avenue
Doolan Road
Positano Parkway
Fallon Road
Tassajara Road
Gleason Drive
Central Parkway
Dublin Boulevard
Martinelli Way
Rosewood Drive
Amador Valley Boulevard
Village Parkway
San Ramon Road
Dougherty Road
Sierra Court
Johnson Drive
Hopyard Road
Willow Road
Hacienda Drive
Owens Drive
Stoneridge Drive
Santa Rita Road
West Las Positas Boulevard
Valley Avenue
Stanley Boulevard
Bernal Avenue
Foothill Road
Del Valle Parkway
Main Street
1st Street
Sunol Boulevard
Castlewood Drive
Pleasanton Sunol Road
Palomares Road
Dublin Canyon Road
West Jack London Boulevard
580
680
0
1
2
3
Miles

Promising Strategies

Multimodal **corridor projects**

Use data to inform focus areas

Implement **Speed Management** (traffic calming, road diets)

Separate and Reduce Conflict between modes

Using **Traffic Control Devices** to Manage Higher Severity Conflicts (e.g., protected signal phasing)

Improve **lighting**

Coordinate with Education and Enforcement

Thank You!

Alameda County Transportation Commission • 1111 Broadway, Suite 800
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