

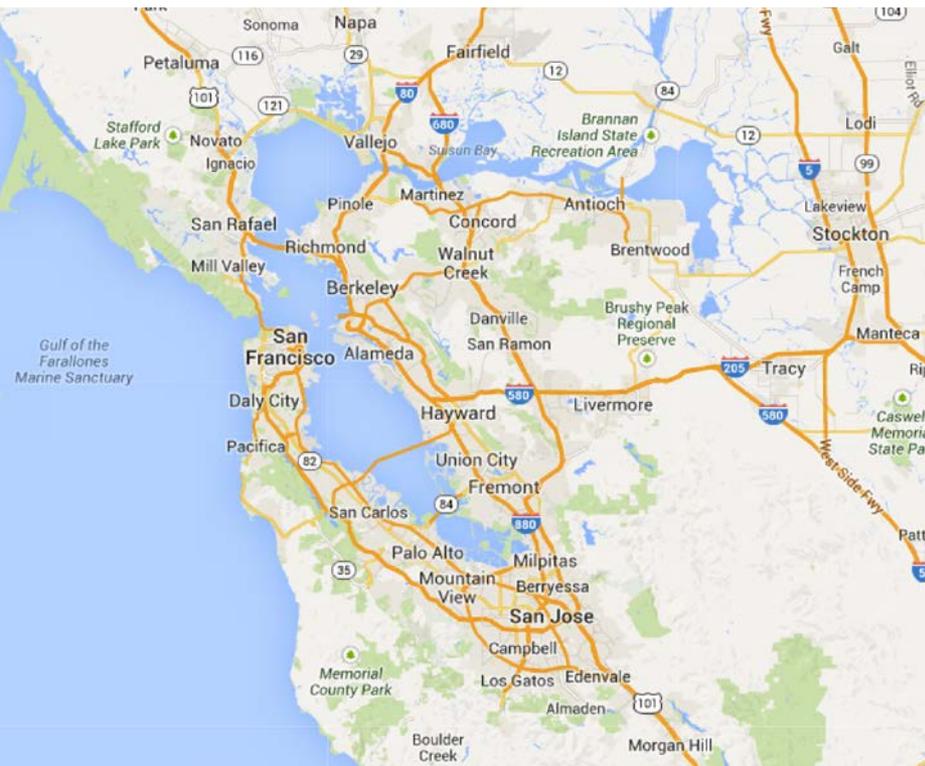


METROPOLITAN  
TRANSPORTATION  
COMMISSION



# Bay Area Goods Movement

A Presentation for the California Freight and Advisory Committee



A Presentation by

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*Chair, Metropolitan Transportation Commission and  
Mayor of Orinda*

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September 18, 2013

# A Regional Perspective

- 9 Counties
- 7 million people and 3.5 million jobs in 2010; 2 million more people and 1 million more jobs by 2040
- 500 million annual transit trips
- Nearly 20,000 miles of local streets and roads; 1,400 miles of highways
- 5 seaports; 3 airports
- 2 Class 1 railroads



# Bridging the Region



# Goods Movement in the Bay Area

- Regional economic driver:
  - Goods movement-dependent industries represent 28 percent of regional employment in 2010
  - 50 percent of Bay Area economic output is generated by goods movement-dependent industries
- Serves the local population and industries
  - High tech industry, agriculture, petroleum products, service sector
- Domestic trade – ~  $\frac{3}{4}$  of freight flows in the region
- International trade – airports and seaports

# Goods Movement in the Bay Area

- Ports include:
  - Port of Oakland — 5<sup>th</sup> largest container Port in the U.S.
  - Four smaller niche ports that are important to the local economy:
    - Richmond and Benicia: liquid bulk, petroleum and cars
    - San Francisco and Redwood City: bulk/break bulk, construction material
  - Airports: key gateway for high-value goods



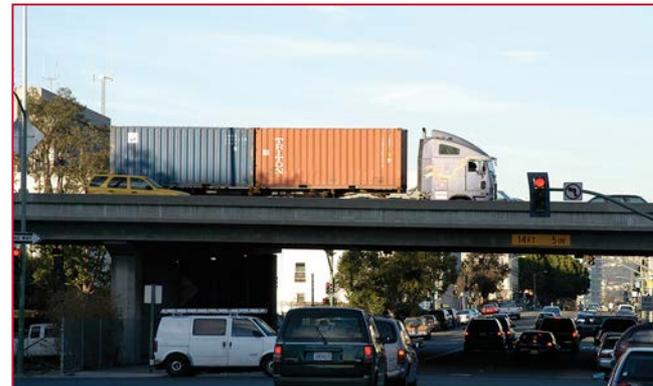
# Northern California Connections

- Interregional connections are critical to the Bay Area economy
- Gateway to trade with Asia
- Gateway also for Central Valley and Central Coast agricultural exports
- Bay Area and Central Valley warehousing and distribution are interconnected



# Areas for Future Study

- Highway congestion along major freight corridors
- Rail connections and passenger/freight needs
- Air quality and community impacts
- Land use trends resulting in loss of industrial land in the core of the region
- Climate change and sea level rise



# Goods Movement Investments

- Oakland Army Base – major infrastructure priority and job-creator in Oakland
- Richmond: two projects that will improve the movement of goods and reduce community impacts
  - Marina Bay Grade Separation
  - Richmond Rail Connector
- Freeway Performance Initiative
- SR 152
- Marin-Sonoma Narrows Corridor Improvements



# The Role of Alameda County







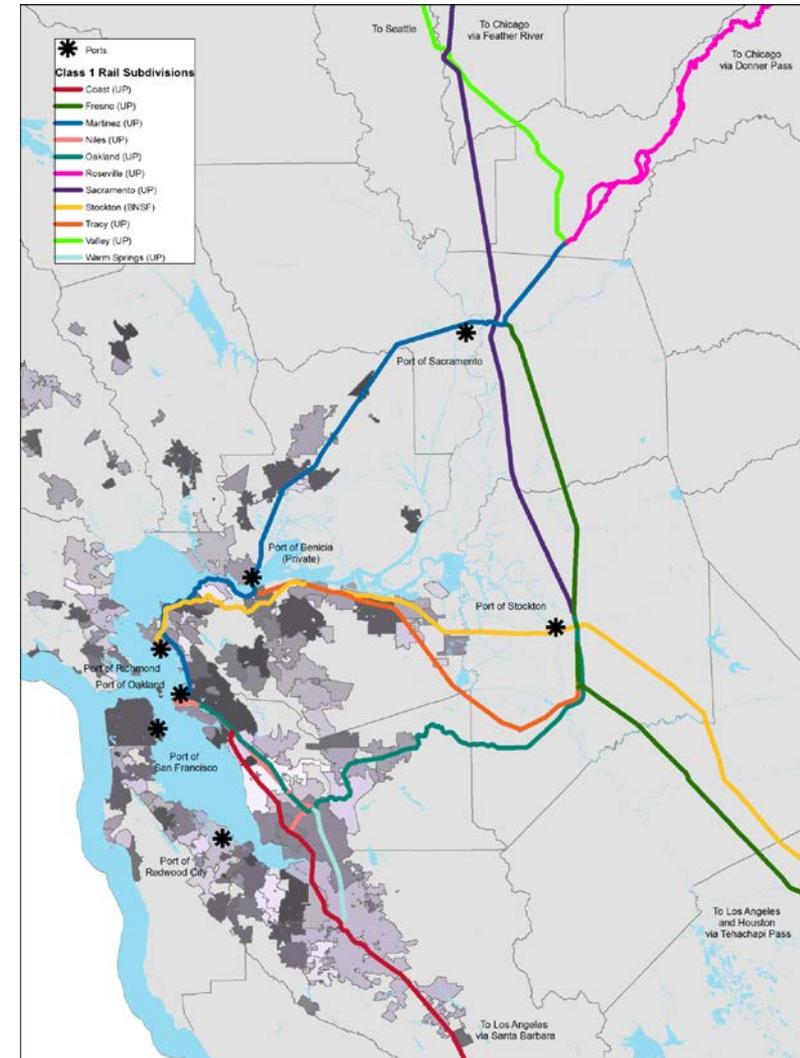
# Roads and Highways Connect Regions, Move People and Goods

- Nearly 25 percent of all vehicle miles traveled in the Bay Area are on Alameda County roadways
- Highways connect Alameda County to neighboring counties, Silicon Valley and the Central Valley
  - I-80, I-238, I-580, I-680, I-880

Source: "California Public Roads Data," 2011, Caltrans

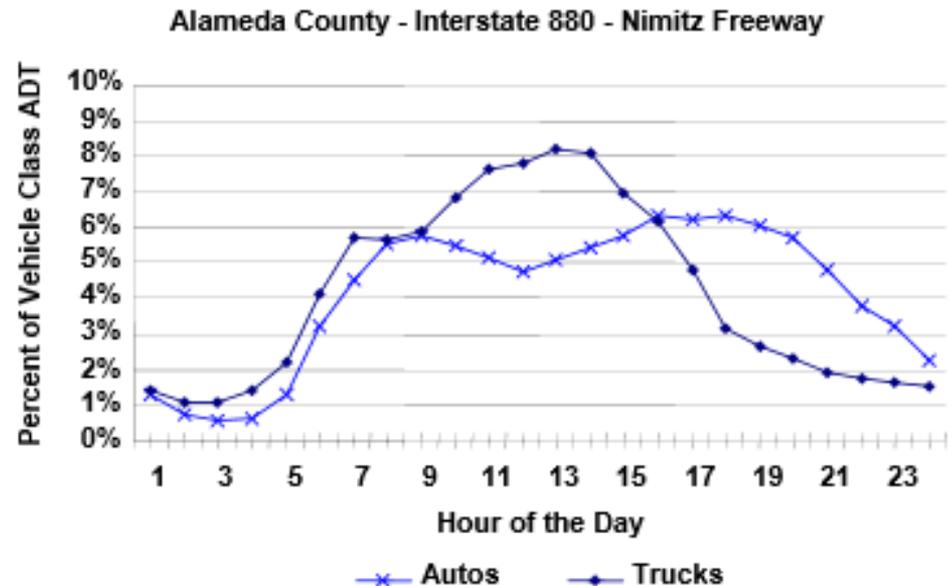
# Rail Connects the Bay Area to the Rest of the Country

- In the East Bay, freight rail shares congested lines with passenger rail services



# Roadway Congestion Is a Significant Problem

- Four of 10 most-congested facilities in Bay Area are in Alameda County
- Travel time reliability – drivers must add extra time to their trips to avoid being late
- Trucks and cars share congested facilities



Source: *Mobility Performance Report, 2012 Q3*, Caltrans; Figure data derived from Caltrans Performance Measuring System (PeMS) Database

# System Management

Pricing



Parking



Travel Demand



Intelligent Transportation Systems



Traveler Information



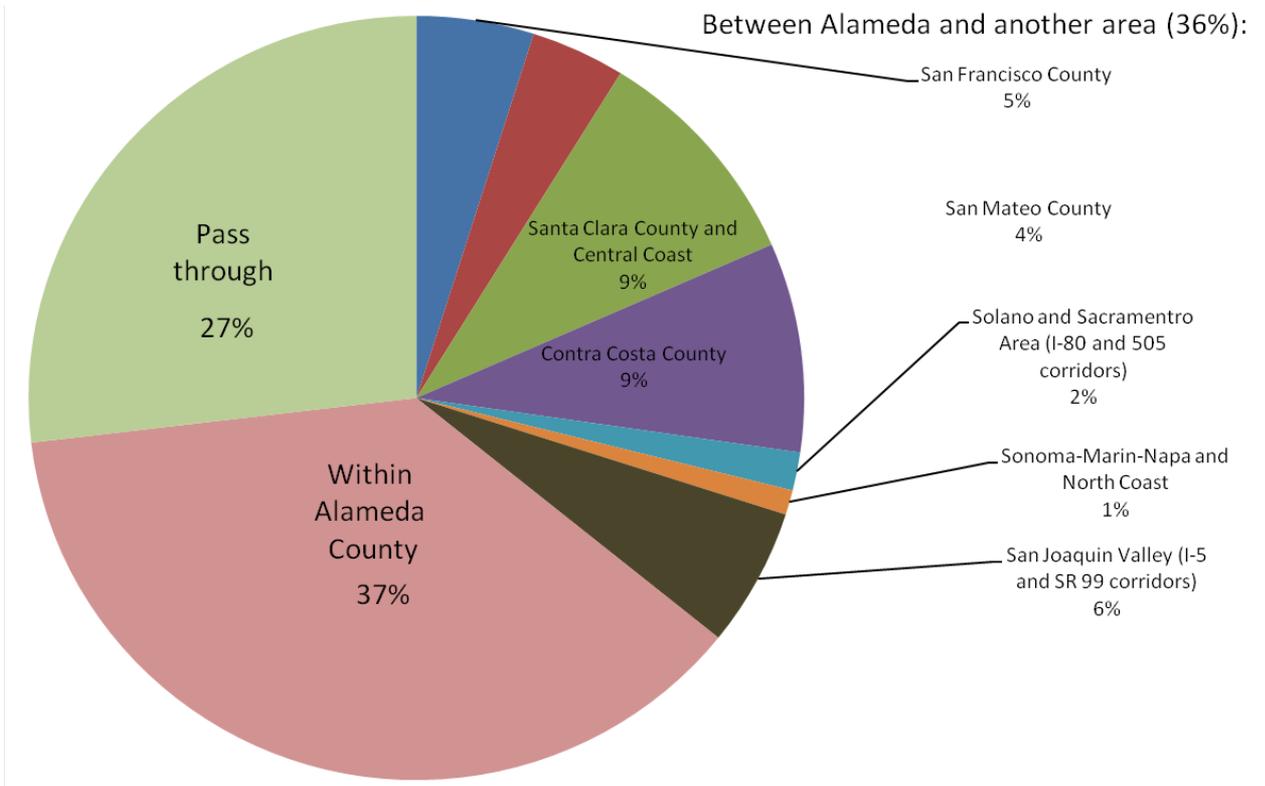
Guaranteed Ride Home





# Alameda County Continues to Be a Transportation Hub for Autos ...

## VEHICLE MILES OF TRAVEL IN ALAMEDA COUNTY, 2035 - AUTO



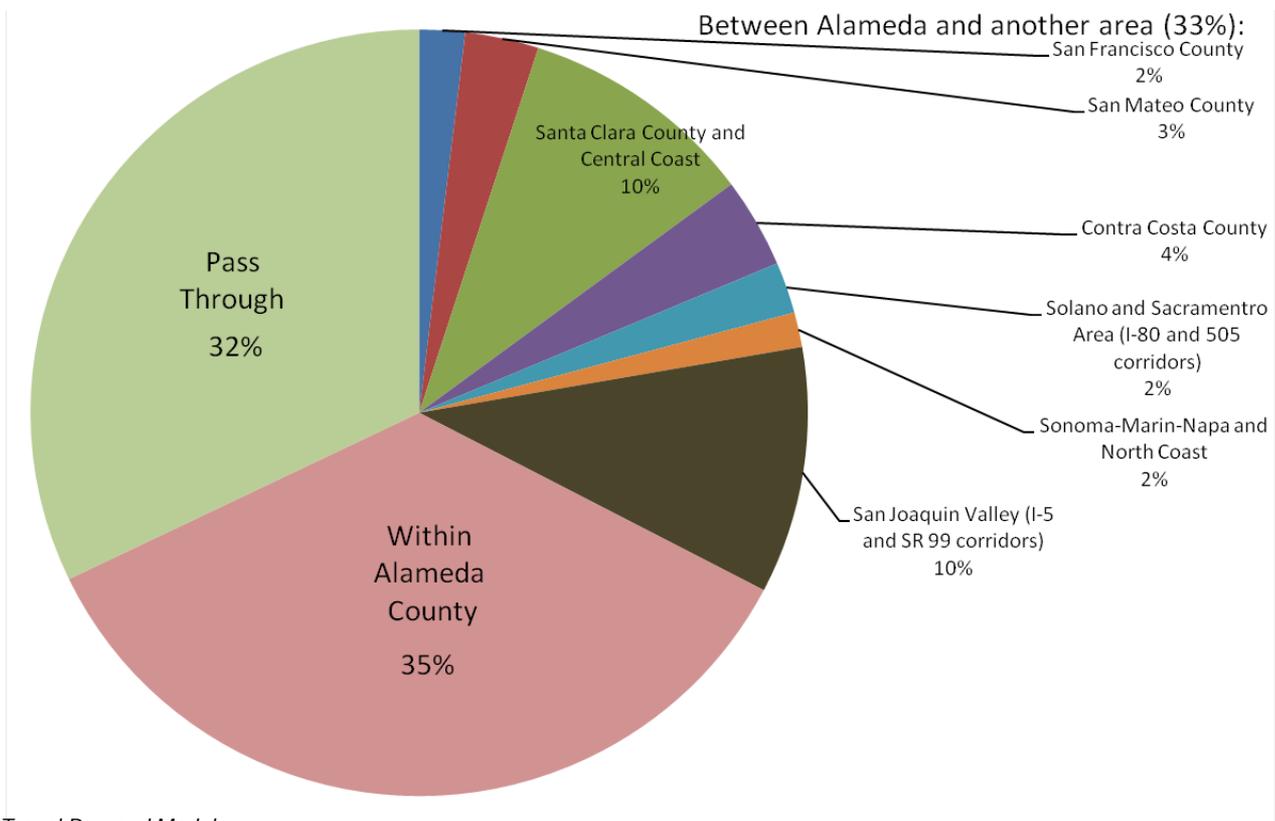
Source: Alameda Countywide Travel Demand Model





# ... and Freight

## VEHICLE MILES OF TRAVEL IN ALAMEDA COUNTY, 2035 - TRUCK

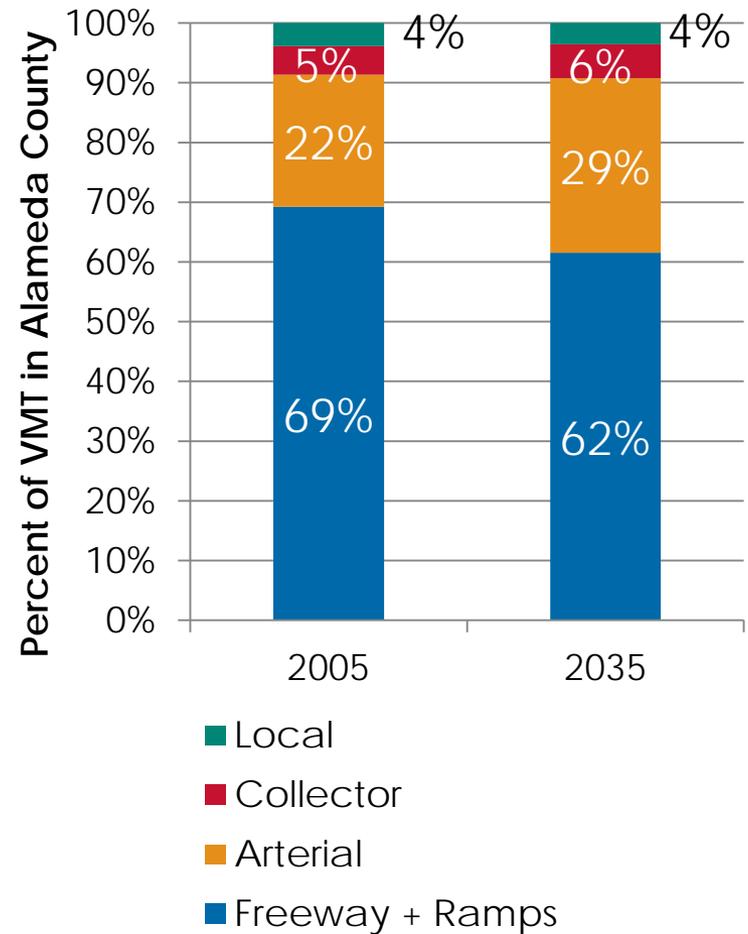


Source: Alameda Countywide Travel Demand Model



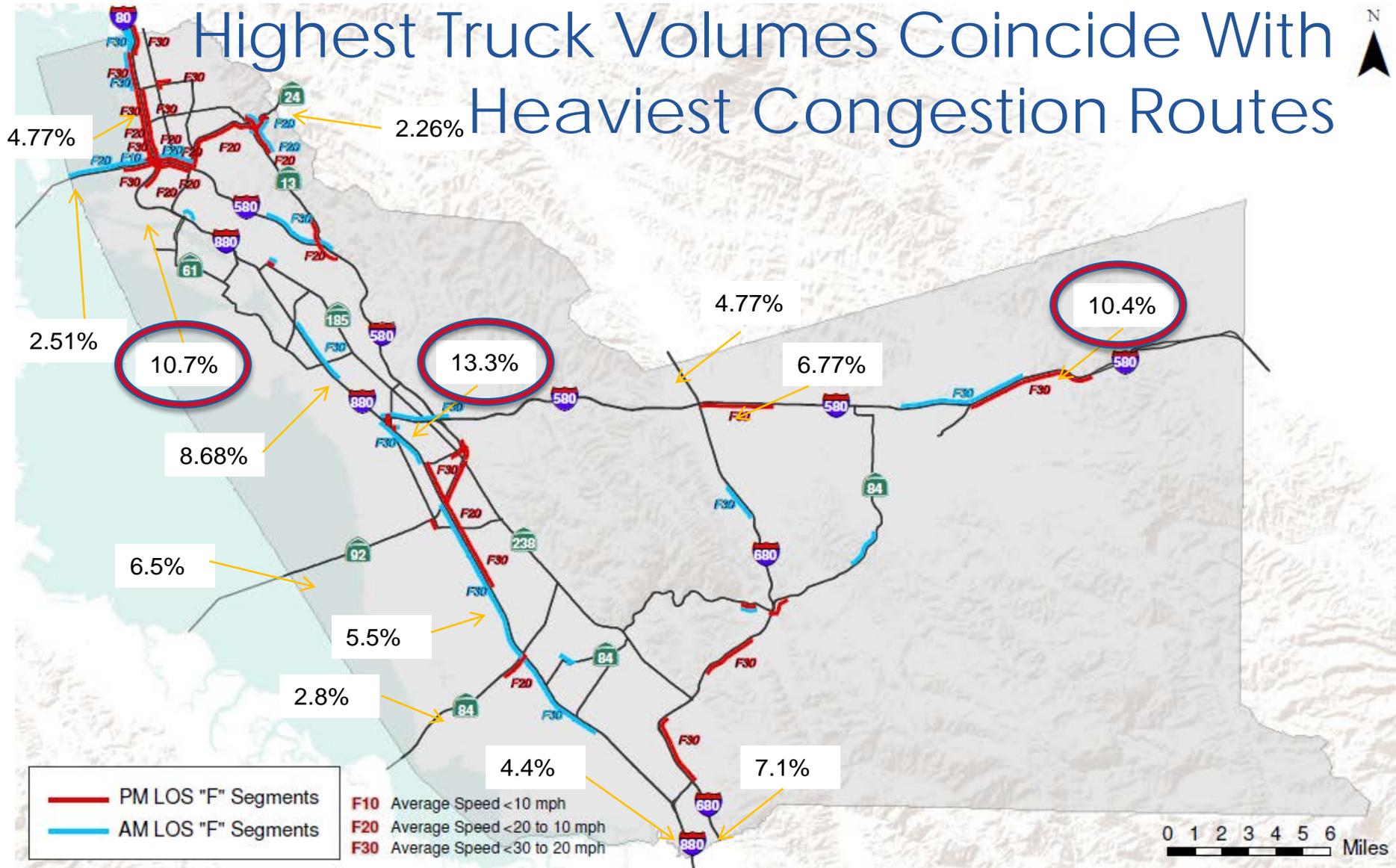
# Most Travel Will Continue to Be on Freeways

- Arterials expected to carry larger share of travel in future



Source: Alameda Countywide Travel Demand Model

# Highest Truck Volumes Coincide With Heaviest Congestion Routes

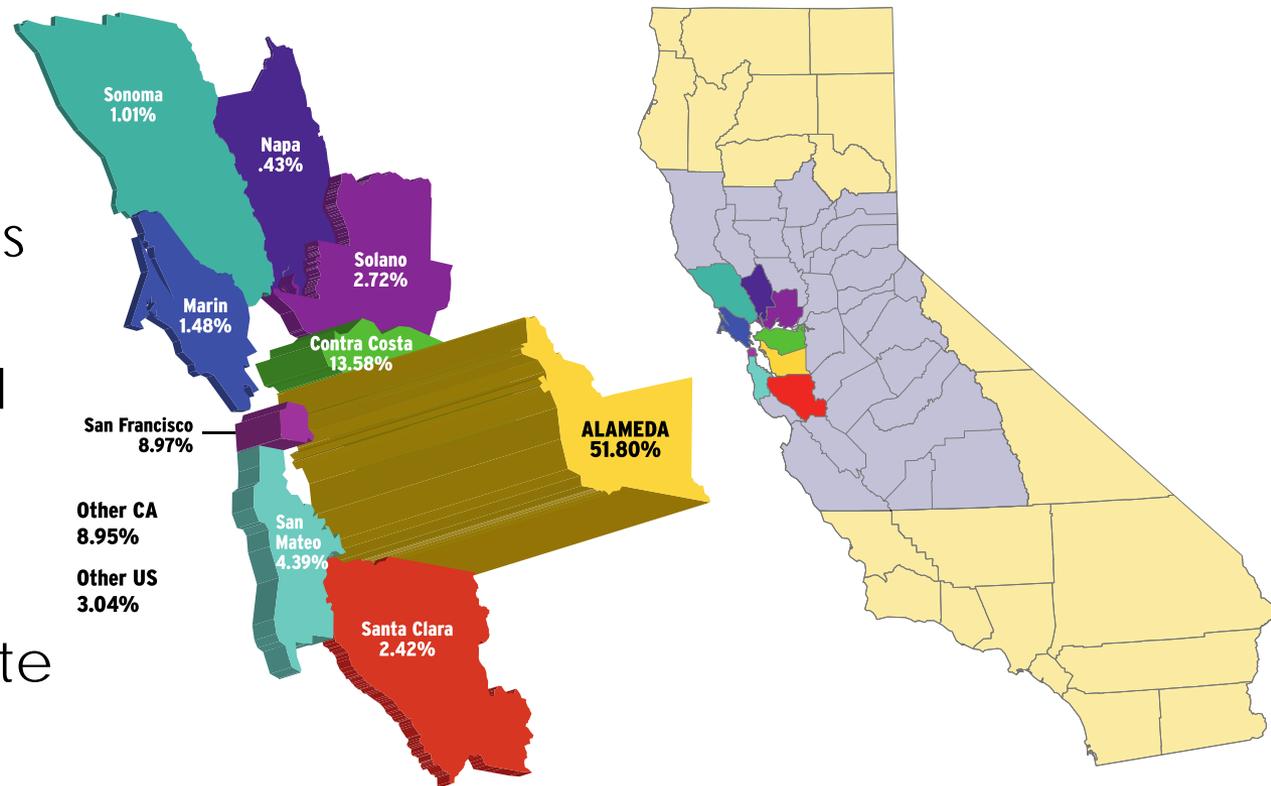


Source: "Annual Average Daily Truck Traffic on the California State Highway System" Caltrans, 2011.

# The Port Helps Move the Region and Alameda County

GENERATES OVER 73,000 JOBS ACROSS THE REGION

- East Bay is home to 2/3s of Port-related jobs
- Proximity to the Port of Oakland is one reason why jobs-creating businesses locate in the region



Source: Port of Oakland



# A Bimodal Port Perspective



# Oakland: Major Export Gateway

## Major Exports by Value, 2012



| Commodity             | \$ Millions |
|-----------------------|-------------|
| 1 Fruit and Nuts      | 2,581       |
| 2 Meats               | 2,300       |
| 3 Machinery           | 801         |
| 4 Wine and Spirits    | 778         |
| 5 Rare Earth Minerals | 548         |
| 6 Medical Instruments | 514         |
| 7 Vehicles            | 412         |
| 8 Cereals             | 378         |
| 9 Dairy Products      | 373         |
| 10 Foodstuffs         | 334         |

Source: Bureau of Census, U.S. Department of Commerce

**Oakland is the #1  
U.S. seaport  
gateway for ag  
exports by value**



# Oakland: Major Air Cargo Gateway

- FedEx and UPS both have large hubs at OAK, with FedEx being the larger of the two
- OAK carriers move export cargo nonstop to Tokyo and via the Anchorage hub to other international destinations.
- FedEx is poised to boost its international cargo traffic from OAK, particularly to Asia, with its growing fleet of long-range 777s
- High-value exports, via OAK, include California wines, confectionary and organic food products; hi-tech; and apparel



# Big Ship Ready

Ships are getting bigger and bigger (and cleaner and more efficient)



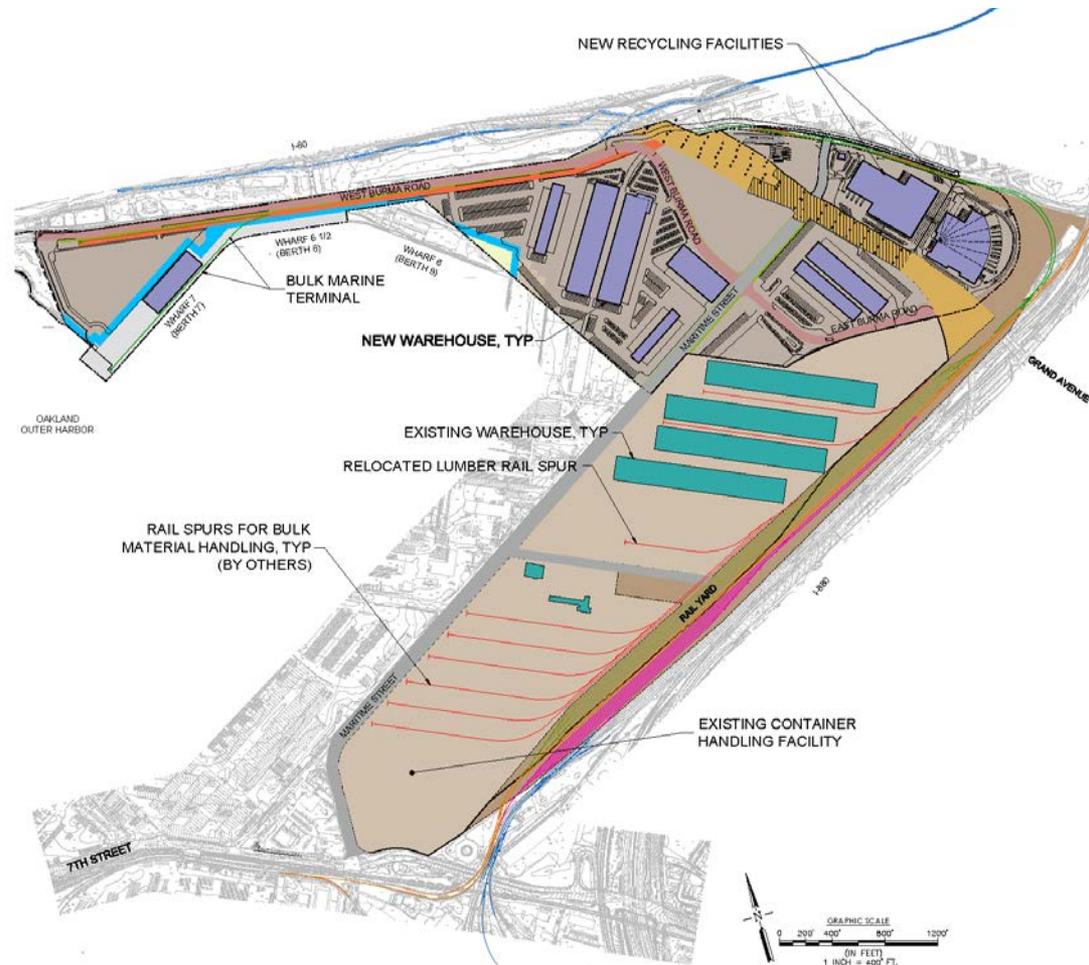
Oakland was one of only two ports in Western Hemisphere to handle the 14,000 TEU MSC Fabiola in 2012.



Requiring deeper channels and berths, larger terminals, more connections and productivity

# Preparing for the Future

- Transforming the former Oakland Army Base (OAB) into a thriving intermodal trade and logistics center
- 360 acre Port-adjacent site
- Joint City-Port-Private Sector project
- \$500 million Phase 1 under way (50 percent Proposition 1B-funded)
- Reduced truck trips, faster rail connections, more jobs



# Ensuring Healthy Freight Communities

## MEETING OUR CLEAN AIR COMMITMENT



SEPTEMBER 2013

### OUR COMMITMENT TO CLEAN AIR & HEALTHY COMMUNITIES

In 2009, the Port of Oakland committed to achieving an 85% reduction in seaport-related diesel health risk by 2020 from a 2005 baseline. In just three years we have already achieved a 70% reduction in diesel particulate matter emissions, even though we're handling 3% more cargo today than in 2005.

Based on our 2012 inventory, we are only 15% away from our 2020 goal, which we have a plan to achieve. This success is thanks to our Maritime Air Quality Improvement Plan (MAQIP) and many partners who have helped along the way.

**DIESEL  
EMISSIONS  
ALREADY DOWN  
70%**



**15% AWAY 85%**  
From our 2020 goal of: **85%**



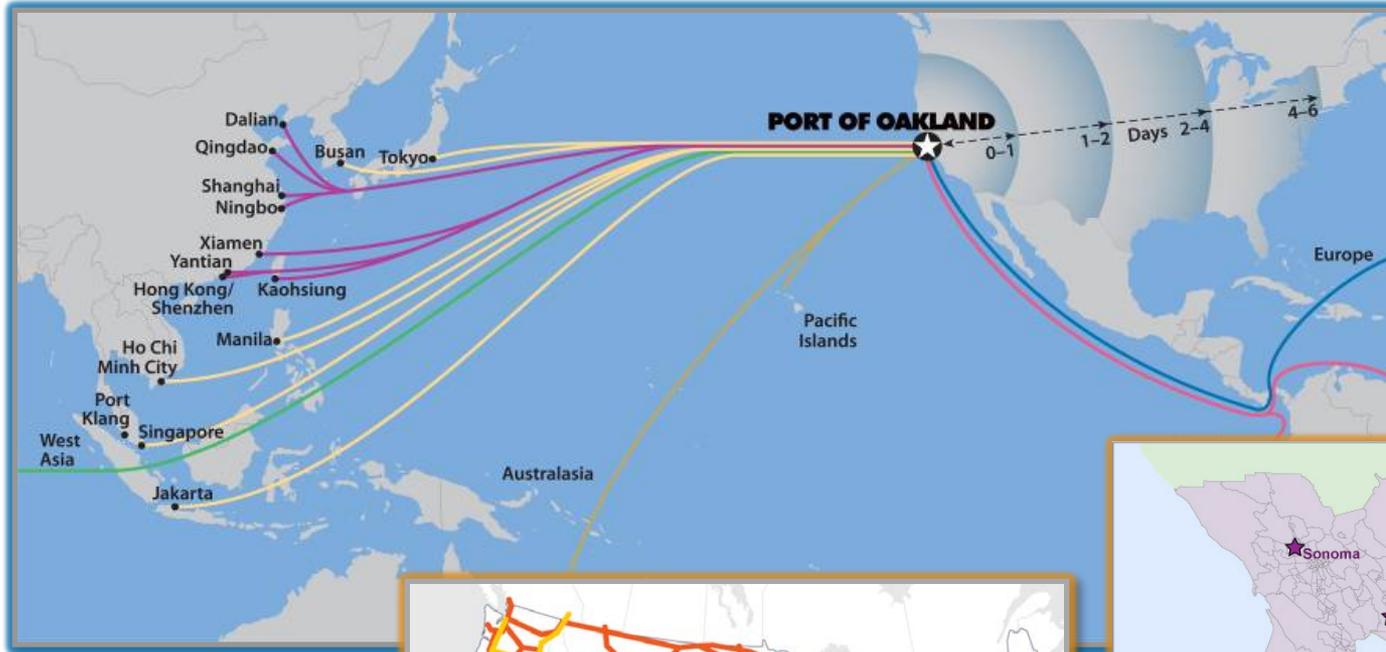
The Port of Oakland is meeting its commitment to cleaner air and healthy communities.

The Port of Oakland oversees the 5th busiest container port in the U.S.; Oakland International Airport, the 2nd largest passenger airport and #1 air cargo airport in the San Francisco Bay Area; and 20 miles of waterfront, including Jack London Square and hundreds of acres of public parks and conservation areas. Port operations and those of its tenants and users generate more than 73,000 jobs in the region and are connected to nearly 827,000 jobs across the United States. Established in 1927, the Port is an independent department of the City of Oakland.

Visit us:  [www.portofoakland.com](http://www.portofoakland.com)

Follow us:  

# Competing in Global Systems



Global Ocean Shipping Connections

Centrally Located Bay Area Airport

World Class Rail Connections



# Opportunities & Challenges

- Aligning plans, policies, and people to compete
- Leveraging existing assets before investing in new ones
- Rail, rail, rail
- Climate change and sea level rise
- Continuing the progress toward sustainability

