Goods Movement Webinar

August 23, 2023



Meeting Instructions

Welcome

Agenda

Item	Presenter
Welcome	Chair Lee Ann Eager California Transportation Commission
Inland Ports: TradePort California	Simran Jhutti Fresno Council of Governments
SCAG Goods Movement Approach	Scott Strelecki Southern California Association of Government
Mega-Regional Freight Planning Framework	Kenneth Kao Metropolitan Transportation Commission
Closing Remarks	Chair Lee Ann Eager California Transportation Commission



Presentation 1 TradePort California



Simran Jhutti
Fresno Council of Governments



Origins

- The concept of utilizing "inland ports" to move goods in California originated with the Port of Los Angeles. It is a goods movement strategy to help alleviate the supply chain challenges at the Ports of Los Angeles and Long Beach
- Since 2020, Fresno COG has been serving as the lead agency for the 8 San Joaquin Valley COGs and SACOG (Sacramento Association of Governments) in development of this goods movement strategy to help alleviate the supply chain challenges at the Ports of Los Angeles/Long Beach.
- The California Inland Port project has since been renamed/rebranded to "TradePort California" to distinguish it from other inland ports throughout the country.

San Joaquin Valley Regional Significance

- The San Joaquin Valley is located geographically in the center of the state
- Serves as critical goods movement corridor for California
- Many items either originate in or pass through after traveling in through ports and continue on through the rest of the state, the country, and even the world via truck.
- There have been significant impacts to San Joaquin Valley's air quality and safety due to the goods movement along SR-99 Corridor.



Public Objectives

- Contribute to a More Efficient National Supply Chain System
- 2. Substantially Reduce GHG and Air Criteria Pollutants in California
- 3. Significantly *Increase Economic Competitiveness;* Especially in Rural/Challenged Areas
- 4. Reduce VMT, Road Congestion, Maintenance, & Increase Traffic Safety
- 5. Built Around *Social Equity and Environmental Justice* Principles
- 6. Promote Collaboration and Partnership Across Public and Private Sectors
- 7. Addresses *Agricultural Export Challenges* facing the San Joaquin Valley

TradePort California Public Partners

Ports (Phase 1)

- Port of Los Angeles
- Port of Long Beach

Air Quality Districts (Phase 2)

- South Coast Air Quality Management District
- San Joaquin Valley Air Pollution Control District
- Sacramento Air Quality Management

Metropolitan Planning Organizations/ Regional Transportation Planning Agencies (Phase 2 & 3)

- •Kern Council of Governments (KCOG)
- Kings County Association of Governments (KCAG)
- •Tulare County Association of Governments (TCAG)
- •Fresno Council of Governments (FCOG)
- •Madera County Transportation Commission (MCTC)
- •Stanislaus Council of Governments (StanCOG)
- •San Joaquin Council of Governments (SJCOG)
- •Sacramento Area Council of Governments (SACOG)

California Department of Transportation (Phase 3)

• District 6

U.S. Department of Transportation Build America Bureau (Phase 4)





Phase One

- Feasibility Analysis/Market Size Analysis
- •Truck vs. Rail Transportation Costs
- Criteria Pollutant Reduction Analysis
- Greenhouse Gas Impacts
- •Transportation System User Safety Benefits

Phase Two

- Establish Executive Advisory Group (EAG-Public/Private Professionals)
- Market Readiness Analysis/Develop Preliminary Business Model
- Preliminary Cost Estimates for Tradeports
- Class One Railroads Engagement

Phase Three

- Develop Project Financial Model
- •Business Plan for high-efficiency TradePorts utilizing sustainable energy
- •Conduct Site Suitability Analysis for TradePorts/Satellites
- Begin development of delivery entity framework (JPA)
- Detailed indirect and direct capital costs
- Develop P3 (Public/Private) Delivery Options

<u>Phase Four</u>

- Development of a Public-Private Financing Structure
- Legal and regulatory analysis for Entity Establishment
- Develop Risk Management Strategy
- Complete Project Design

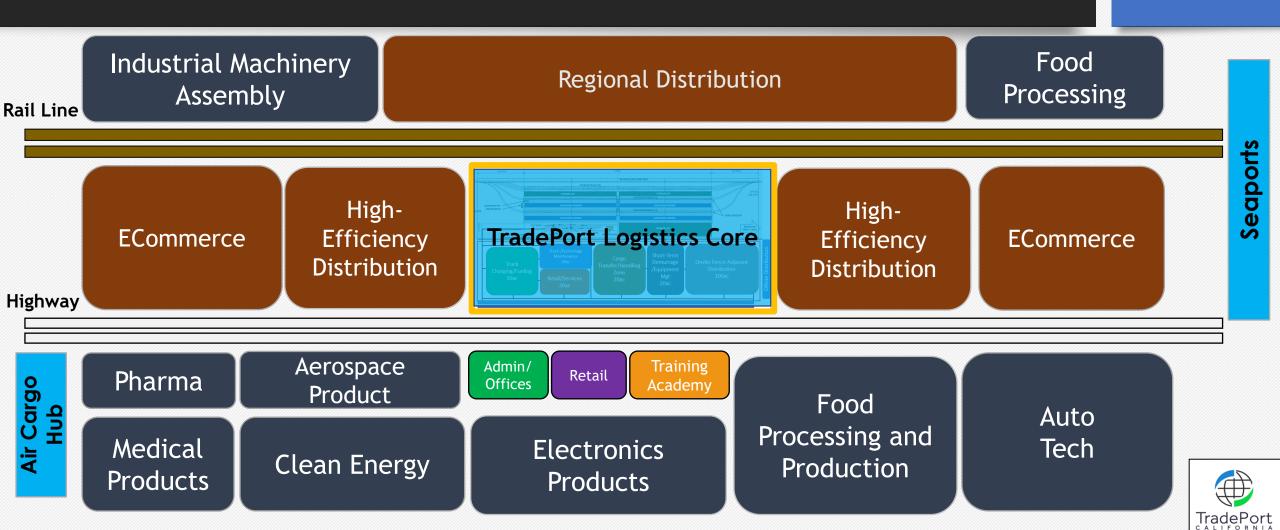
Understanding Goods Movement In California and the United States Connecting California bright D. Eisenhover Sutional System of

TradePort California Concept

- Population: 14M in Market Area; 31m (Incl. LA)
- 425 Mile-Long Zone
- 1.1m Intl TEUs Annually/20,000 Trucks Per Week
- Practically All Via (Diesel) Truck
- UP/BNSF Transcon Line Parallel CA99 Corridor
- Central Valley Hubs Serve Bay Area & LA Markets
- Baseload Inbound: Consumer Goods
- Baseload Outbound: Agricultural Products
- 74% of Containerized Cargo Moves Via LA Region Ports



TradePort Asset Investment Diagram







Thank you!

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Presentation 2 SCAG Goods Movement Approach

THE 2024 REGIONAL TRANSPORTATION PLAN/SUSTAINABLE COMMUNITIES STRATEGY
OF THE SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS



Scott Strelecki
Planning Supervisor – Goods
Movement
August 23, 2023



Overview

SCAG Goods Movement System



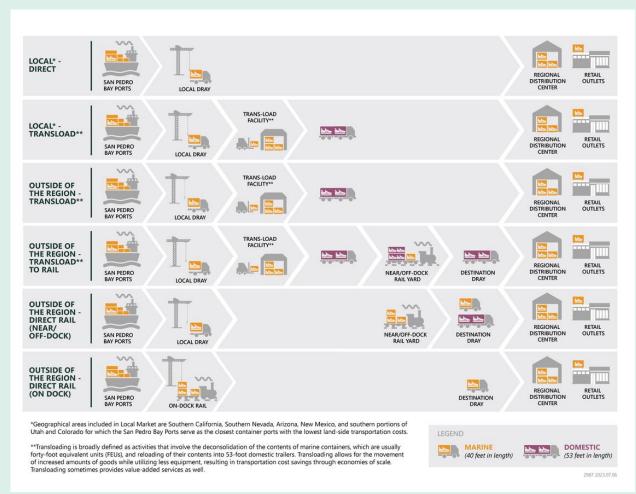
- International trade: \$600 billion
- Ports LA/LB: 17 million TEUs
 - 4.7 million TEUs Alameda Corridor
- Highway system: 56,276 road miles, 1,634 miles of highways-Interstates
- Rail: 915 weekly freight trains
- Air cargo: >3.4 million freight tons
- Industrial: > 1.5 billion sq. ft.



Why Goods Movement is Essential



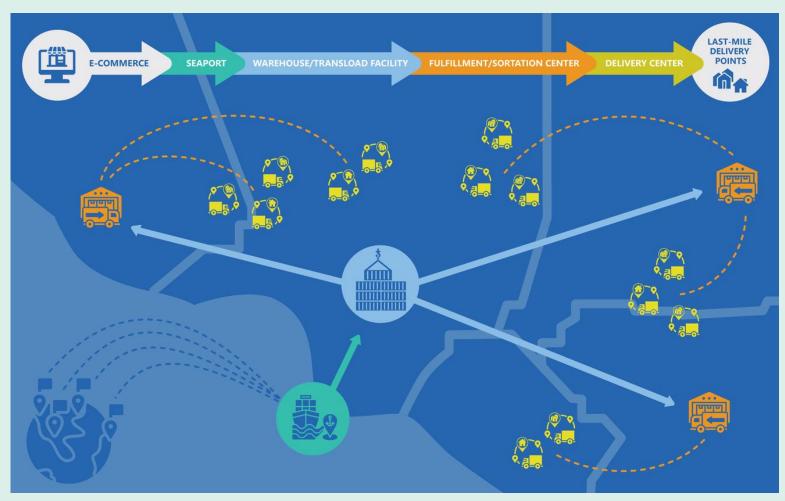
- Provides access to international gateways
- Supports regional manufacturing activities
- Serves the needs of local businesses and residents
- Supports a thriving logistics industry



Source: SCAG

Supply Chains Are More Complex





Source: SCAG

Variables Beyond Control





Goods Movement Call-to-Action



- SCAG Regional Council adoption of the Goods Movement Resolution in March 2023
- Incorporation into Connect SoCal Regional Planning Policies
 - **Policy 1** Leverage and prioritize investments particularly where there are mutual co-benefits to both freight and passenger/commuter rail.
 - Policy 2 Prioritize community and environmental justice concerns together with economic needs and support workforce development opportunities particularly around deployment of zero-emission and clean technologies, and their supporting infrastructure.
 - **Policy 3** Explore and advance the transition toward zero-emissions and clean technologies and other transformative technologies where viable.

Goods Call-to-Action (continued)



- Incorporation into Connect SoCal Regional Planning Policies (cont.)
 - **Policy 4** Advance comprehensive systems-level planning of corridor/supply chain operational strategies, integrated with road and rail infrastructure, and inland port concepts.

• **Policy 5** - Ensure continued, significant investment in a safe, secure, clean and efficient transportation system, including both highways and rail, to support the

intermodal movement of goods across the region.



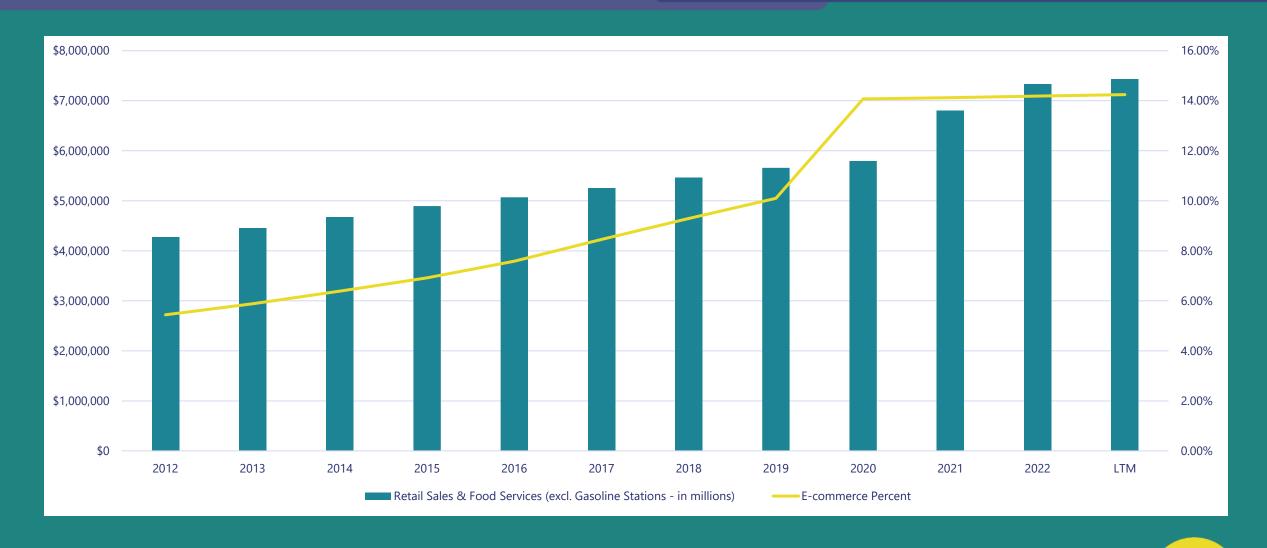




Key Supply Chain Trends & Challenges

U.S. E-Commerce Penetration



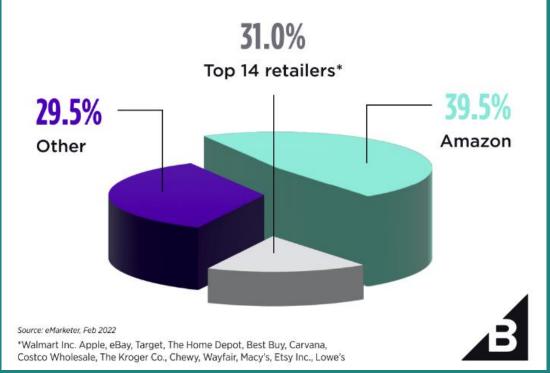


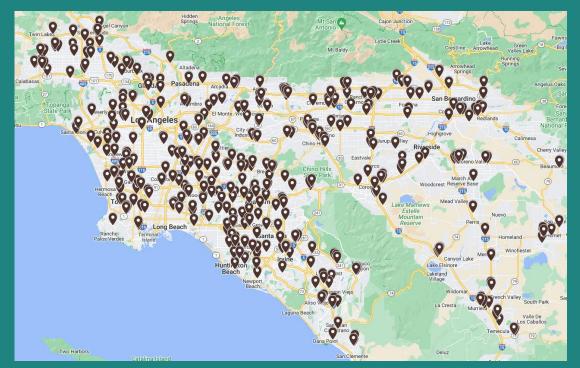
E-Commerce Drivers



US RETAIL ECOMMERCE SALES

BY COMPANY, 2022 (% OF TOTAL RETAIL ECOMMERCE SALES)



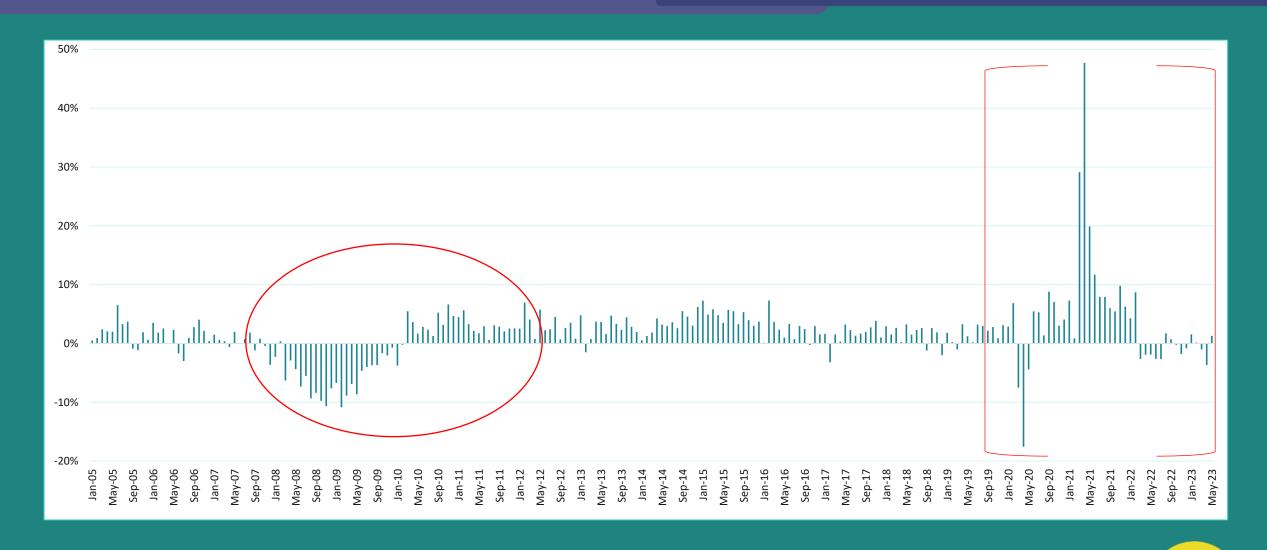


Source: CoStar Visualized through Google Maps

Source: BigCommerce

Retail & Food Services Sales Activity





Los Angeles MSA Retail & Food Services Sales Activity





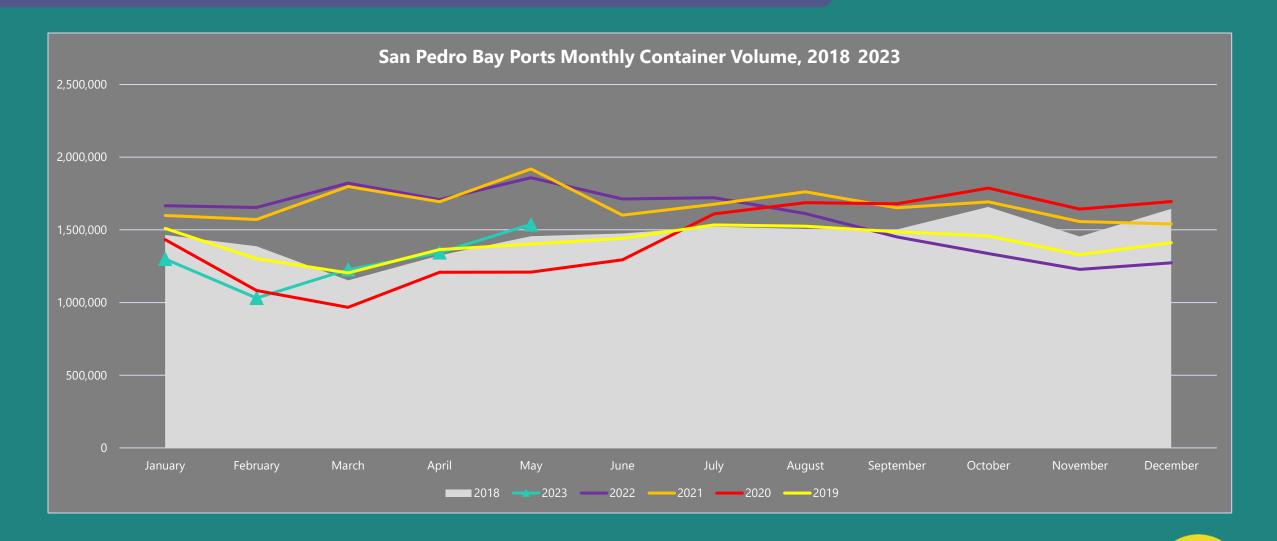
Riverside MSA Retail & Food Services Sales Activity





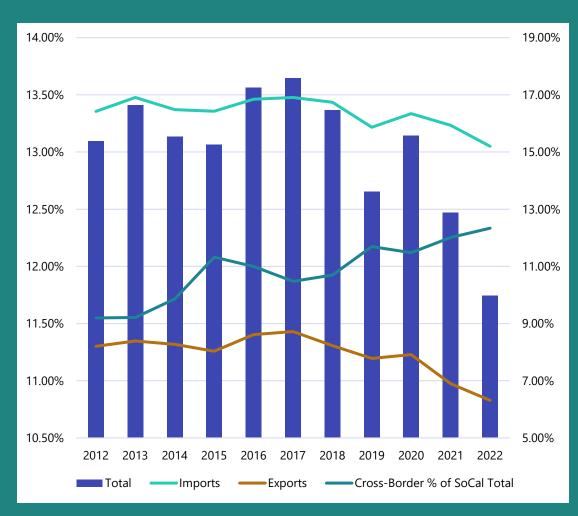
Seaport Performance





SCAG Region Portion of U.S. International Trade – Asian Trade Shifts



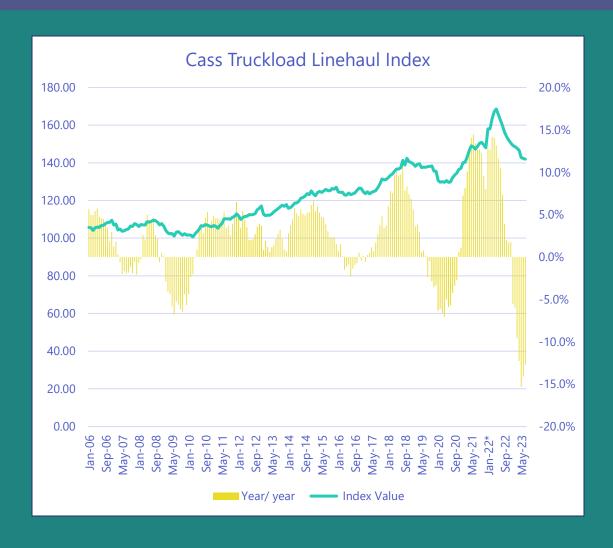


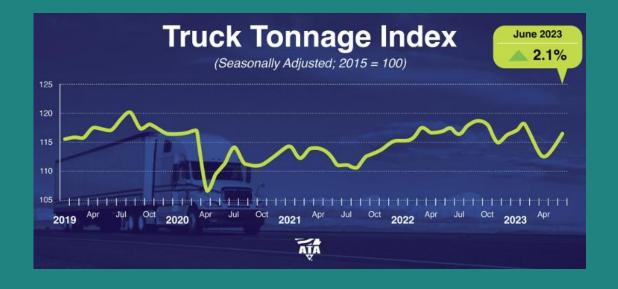
\$250,000,000,000 80.00% 70.00% \$200,000,000,000 60.00% 50.00% \$150,000,000,000 40.00% 30.00% \$100,000,000,000 20.00% 10.00% \$50,000,000,000 0.00% \$0 -10.00% Asia Growth China

Source: U.S. Census Bureau, USA Trade Online

Trucking Performance

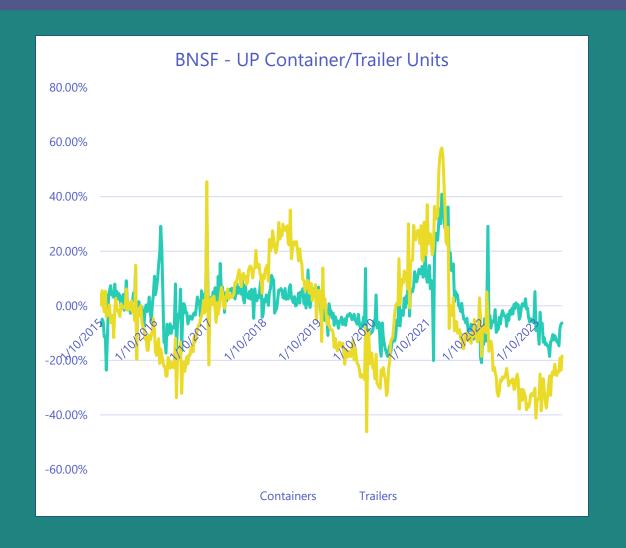


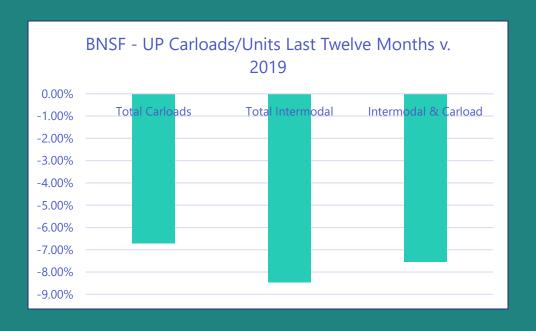




Railroad Performance

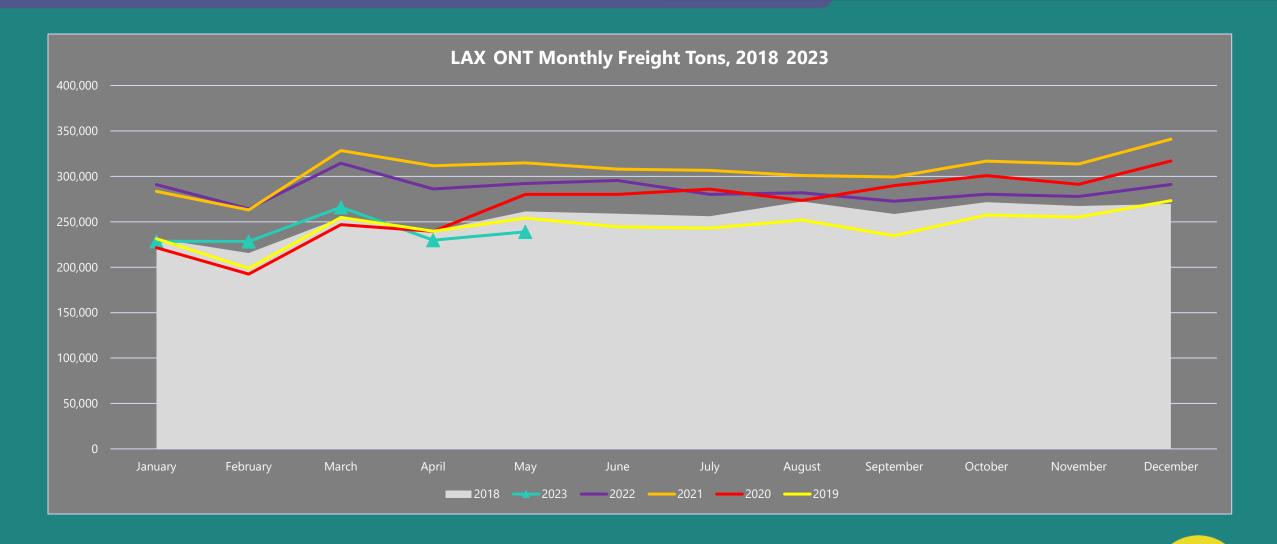






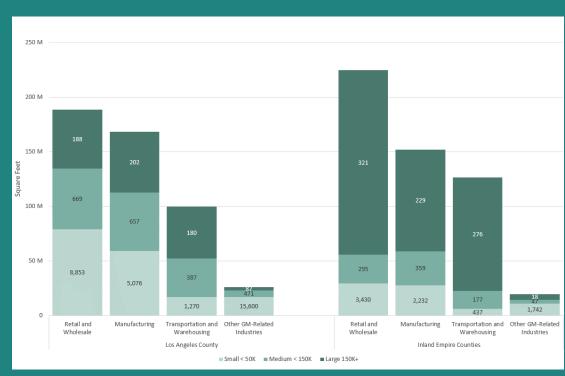
Air Cargo Performance



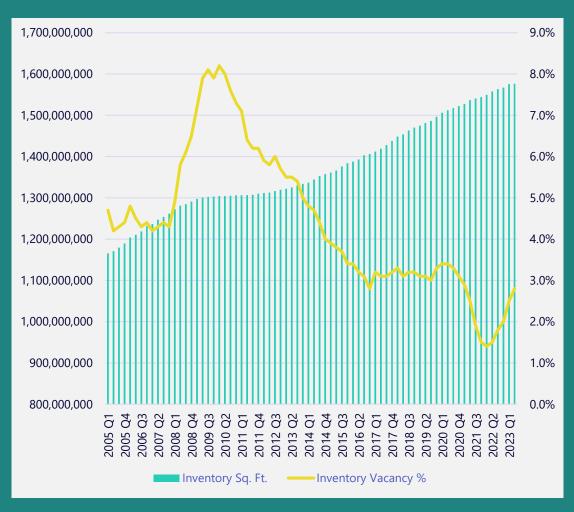


Industrial Facility Performance





Source: CoStar

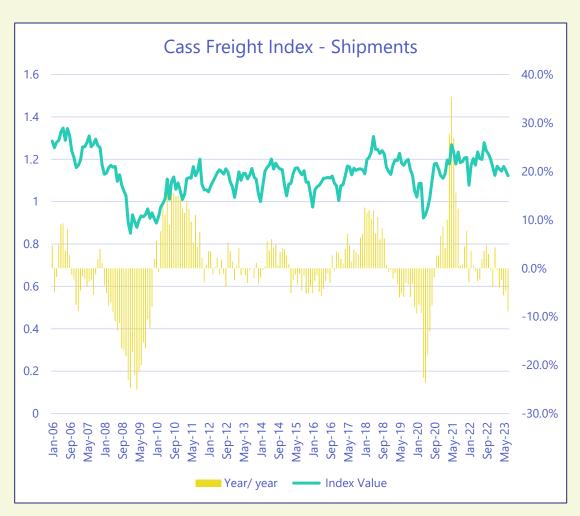


Source: CoStar

Key Supply Chain Challenges



- Supply Chain Factors
 - Freight Cycles
 - Geopolitics
 - Resilience
- Regulatory Environment
- Operations
 - Roadway Congestion/Bottlenecks
 - Truck Parking
 - Rail Service
 - Industrial Facilities
- Local Communities
- Safety & Security



Source: Monthly Cass Freight Index Report

Connect SoCal 2024 Goods Movement Strategies

Policy 1 – Rail Investment Strategies



- Integrated Passenger & Freight Rail Study
 - Metrolink SCORE
 - Beyond SCORE
 - CA High Speed Rail
 - Co-benefit projects
 - Passenger service, freight rail operations, grade crossings
 - Freight projects
- State-Federal Coordination
 - Listening sessions
 - Regional buy-in





Source: SCAG

Policy 2 – Community and Environmental Justice Strategies



- Goods Movement Communities Opportunities Assessment
 - Community engagement
 - Revisiting priority issues
 - Focus on workforce development
- Strengthened Partnerships
 - Recommitment to relationships
 - Trusted perspectives
 - Improved knowledge



Source: SCAG

Policy 3 – Zero-Emission and Clean Technology Strategies



- Last Mile Freight Program
 - 26 near-zero and zero emission projects
 - Vehicle procurement
 - Infrastructure development
 - Key goals
 - Improve air quality benefits
 - Identify potential issues towards scalability
 - Program progression
 - Phase 1 implementation
 - Phase 2 development

\$16,751,000

HAS BEEN APPROVED FOR PHASE 1 PROJECT IMPLEMENTATION.



EMISSIONS REDUCTIONS



INFORM INDUSTRY & PUBLIC



RETURN ON INVESTMENT (ROI) DETAILS



CREATE TRANSPARENCY



ADDRESS

Source: SCAG



E-COMMERCE AND COVID-19 HAVE ADDED FURTHER STRESS TO GLOBAL SUPPLY CHAINS

CORE PRINCIPLES

- Creating transparency as to critical barriers impeding the transformation of the last mile freight market;
- Measuring success for both public and private entities;
- Optimizing where investments can generate the strongest benefits for further growth: and
- Achieving air quality reduction targets.

Policy 3 – Zero-Emissions and Clean Technologies Strategies (continued)





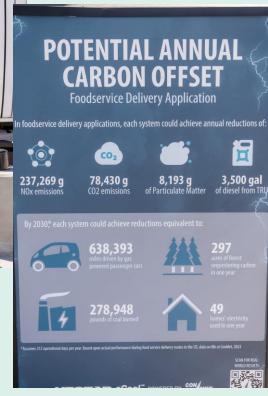












Policy 4 – Comprehensive System-Level Planning Strategies



- Zero-Emission Truck
 Supporting Infrastructure Study
 - Stakeholder engagement
 - Technical Advisory Committee
 - Industry surveys, interviews
 - Market demand
 - Truck markets
 - Infrastructure needs
 - Regional action plan
 - Phased development
 - Guidelines
- Comprehensive Regional Goods Movement Plan Update



Source: SCAG

Policy 5 – Freight System Investment Strategies



Intermodal Systems

- Seaports
 - On-dock, near-dock, access
- Rail System
 - Mainline, sidings, facilities, grade crossings
- Interstates Highways
 - East-West Freight Corridor
 - Other corridors, access

State/Federal Alignment

- California Freight Mobility Plan
- Trade Corridor Enhancement Program
- Senate Bill 671
- National Electric Vehicle Infrastructure Program



Source: SCAG

Policy 5 – Freight System Investment Strategies (continued)



Ports/Rail

- Port of Long Beach SWIFT project
- Port of Los Angeles MSF project
- Hobart/Commerce Yard
- Commerce flyover project
- Port of Los Angeles Rail Mainline/Wilmington Separation
- SR-47 interchange improvements
- McKinley Street/Third Street grade separations
- Turnbull Canyon Rd. grade separation

Border

Calexico East POE bridge widening

Zero-Emission

- EV South Oasis
- Southern California Hydrogen Fueling Facilities

Bottleneck Relief

- I-605/SR-91 interchange improvement
- SR-57/SR-60 interchange/other improvements
- SR-91 improvements (Atlantic to Cherry)
- SR-71/SR-91 interchange connector
- I-10 truck climbing lane
- I-15 lanes improvements

Path Forward



Short-Term Milestones

- Draft Goods Movement Technical Report – fall 2023
- Goods Movement Listening Sessions fall 2023

Ongoing Work

- Zero-Emission Truck Infrastructure Study Report
- Last Mile Freight Program
- Comprehensive Regional Goods Movement Plan Update





Source: SCAG

Questions? Comments?

FOR MORE INFORMATION, PLEASE VISIT SCAG.CA.GOV/CONNECT-SOCAL





Presentation 3 Mega-Regional Freight Planning Framework





Statewide Goods Movement Efforts

Quarterly Meetings

- California Freight Advisory Committee (CFAC)
- Project Delivery and Planning Meetings with District 4

Planning and Coordination

- Statewide MPO Coordination
- Assignment of CUFC/CRFC
- California State Rail Plan
- California Freight Mobility Plan



Regional Planning Efforts

Intra-Regional Planning Efforts

- Goods Movement Executive Team Meetings
- SF Bay Area Goods Movement Plan (2016)
- Goods Movement Investment Strategy (2018)

N. California Megaregion Goods Movement Study

- Funded in-part by Caltrans
- Includes members from Sacramento, San Joaquin, Monterey Bay

Northern California Megaregion Group

- Sacramento, San Joaquin, and MTC
- Megaregion Dozen, Roadway Usage Charge, Electric Vehicle/Bus strategy



Plan Bay Area 2050, adopted Oct. 2021, reflects the priorities of the Bay Area Goods Movement Plan, including over \$5 billion in these investments



Increase Port of Oakland efficiency



Reduce emissions



Reduce neighborhood impacts



Strategic highway investments





Goods Movement Investment Strategy (2018)

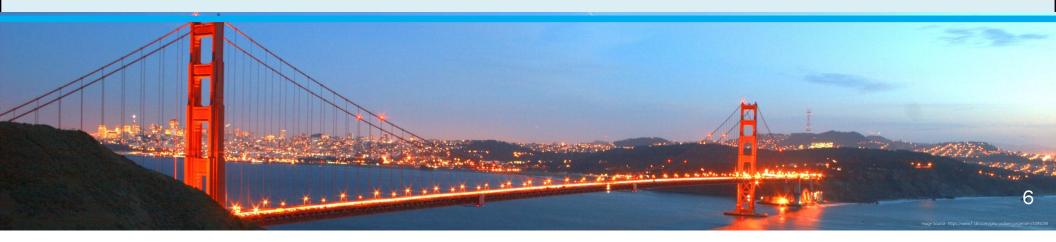
- Enables the region to coordinate and compete for state and federal fund sources
- Delivers projects that can improve mobility and economic vitality
- Addresses community and environmental concerns of freight



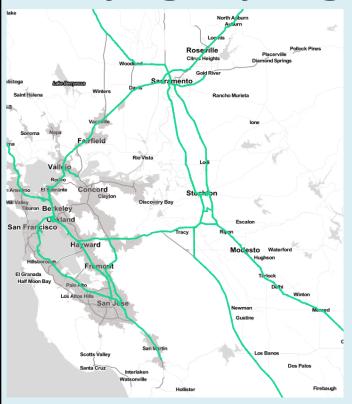
\$3.8 billion is estimated to be available between 2018 and 2028 for Bay Area goods movement projects



\$3.8 billion over 10 years



Improve truck mobility through roadway bottlenecks, primarily at interchanges along the Primary Highway Freight System





Focus Area 1:

Roadway

\$2.2 billion (58%)

Includes improvements to:

- I-80 corridor (\$640 million)
- I-880 corridor (\$200 million)
- I-580 corridor (\$310 million)
- SR-37 and SR-152
 Planning &
 Improvements (\$130 million)



Increase economic competitiveness of the Port of Oakland while addressing increasingly pressing tradeoffs between freight and commuter rail





Focus Area 2:

Rail

\$1.2 billion (32%)

Includes:

- Port of Oakland Go Port (\$500 million)
- Rail Connectivity Improvements (\$230 million)
- Safety Improvements (\$130 million)

Address community and environmental impacts of freight and fund regional demonstration pilots





Focus Area 3:

Community protection

\$350 million (10%)

Includes:

- Equipment-based
 Reductions
- Regional Demonstrations (Truck and Rail)
- Community impact reduction receptor-side mitigations

Northern California Mega-Region



The Northern California Megaregion Compared to Other U.S. Megaregions Sorted by Gross Regional Product (GRP)

Megaregion	Square Mileage	2014 Population	2014 GRP (\$ in millions)	2010-2014 GRP CAGR	2014 GRP Per Capita (\$)	% of 2014 U.S. GDP
Northeast	61,942	54,782,704	3,750,607	3.27%	68,463	21.53%
Great Lakes	205,452	55,696,501	2,747,601	3.63%	49,332	15.77%
Southern California	61,986	25,368,827	1,412,877	3.42%	55,693	8.11%
Texas Triangle	85,312	21,283,372	1,338,669	6.98%	62,897	7.69%
Northern California	24,149	12,063,285	875,579	5.28%	72,582	5.03%
Gulf Coast	59,519	14,286,289	872,818	5.18%	61,095	5.01%
Piedmont Atlantic	59,525	18,448,418	815,170	4.01%	44,186	4.68%
Southern Florida	38,356	18,323,894	769,259	3.75%	41,981	4.42%
Cascadia	47,226	8,780,816	543,703	3.90%	61,919	3.12%
Front Range	56,810	5,892,278	316,988	4.15%	53,797	1.82%
Arizona Sun Corridor	48,803	5,977,688	259,698	3.59%	43,445	1.49%

Data Source: Regional Plan Association America 2050, "Defining U.S. Megaregions"; U.S. Department of Commerce, Bureau of Economic Analysis; U.S. Census Bureau, American Community Survey

Analysis: Bay Area Council Economic Institute



Population: 12.2 million, accounts for 31.5% of California's population

Gross Regional Product (GRP): \$875 billion in 2014, the highest GRP per capita of any U.S. megaregion

Megaregion Dozen Summary

- Four projects in each of the three MPOs, adopted Sept. 2021 and updated Jan. 2022
- Cohesive set of projects advancing Megaregion goals, including economic vitality
- Highway, rail, port, and transit projects bounded by Sacramento, Stockton, and 238/880 Interchange in Bay Area
- Support for future funding opportunities



Megaregion Dozen: Projects

MTC Bay Area

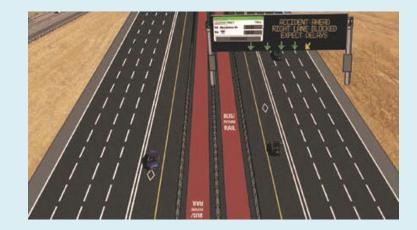
- Amtrak South Bay Connect
- Port of Oakland Electrification
- I-80 WB Truck Scales (Solano Co)
- Valley Link

Sacramento

- I-80/US-50 Managed Lanes
- I-5 Managed Lanes
- Sac to Roseville Third Track
- Valley Rail Expansion

San Joaquin

- SR-99/120 Interchange
- I-205 Managed Lanes
- Central Valley Gateway Project
- ACE/Valley Link Rail Improvements





- On I-80 in Solano County
- Relocate and reconstruct inadequate truck scales facility
- Alleviate significant interregional travel chokepoint
- Truck backup and merging create additional operational issues
- Received \$24M TCEP for PS&E
- \$129M funded in TCEP for CON in FY25





METROPOLITAN TRANSPORTATION COMMISSION

Port of Oakland Green Power Microgrid

- Implement green power microgrid to support electric vehicles, electric cargo handling equipment, and shore power.
- Reduce emissions and improve resilience at Northern California's busiest seaport
- Currently in environmental
- \$42M TCEP received for implementation in FY25



Thank You

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Metropolitan Transportation Commission

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Closing Remarks



Questions? Contact Us!

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Thank you!

