## Improving Future California Port Competitiveness

Senate Select Committee on Ports Long Beach, CA May 8, 2015



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### Our Policy Challenge:

# Focusing State Efforts on Promoting Growth at Seaports

## Why a "Growth-focused" Freight Policy?

Port Infrastructure and Environmental Projects are not traditional transportation, highway or transit projects. Rather Ports partner with the private sector to make primary investments financed by revenue bonds which rely on projections of future growth.

## Jobs, economic benefits, and tax revenues grow along with volumes

- Marine Terminal Operations at the Port of LA in 2007 yielded an average of \$240.42 per container in State and Local tax revenues, \$2,127.67 in personal income per container, and 0.23 jobs per container.
- Marine Terminal Operations at the Port of Oakland in 2010 yielded an average of \$180.22 in State and Local Taxes per container, \$1,716.56 in personal income per container, and 0.37 jobs per container.

The risk of not focusing on a growth result as the key metric for freight planning success — both in the transportation infrastructure and environmental infrastructure contexts is that we will have status quo results: loss of market share, fewer jobs, missed tax revenues, and a lower capacity to finance next generation environmental improvements.

### Policies That Promote Growth in Trade Volumes at Seaports Will:

- Support existing Port and Intermodal Facility Financing
- Support future Port Infrastructure funding
- Pay for Environmental Programs and Projects which are in excess of revenue bond financing baselines

### AND

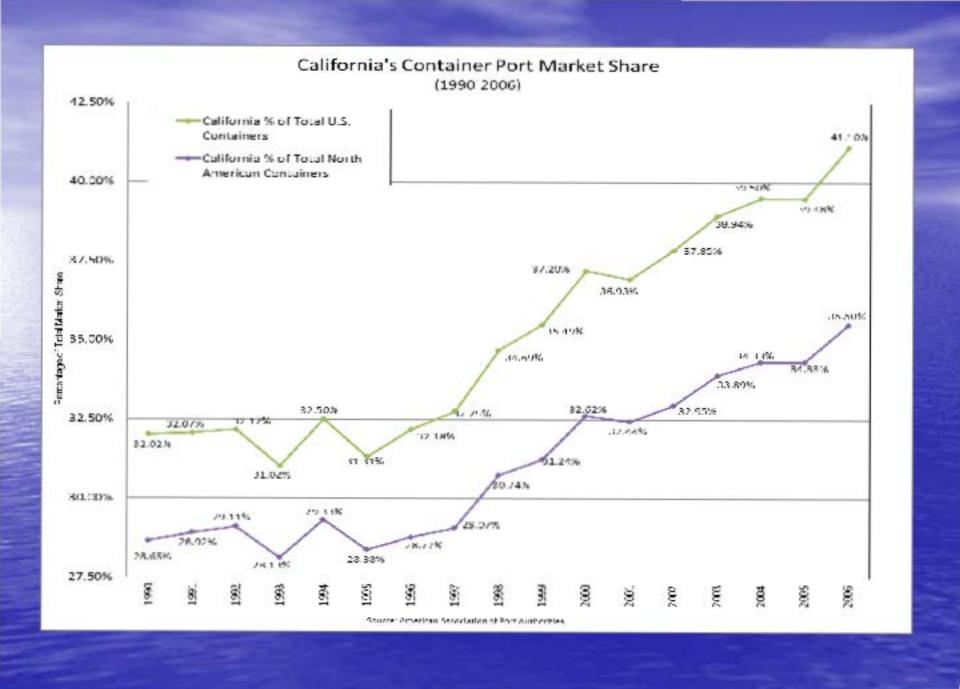
 Grow jobs, economic benefits, and tax revenues along with volumes

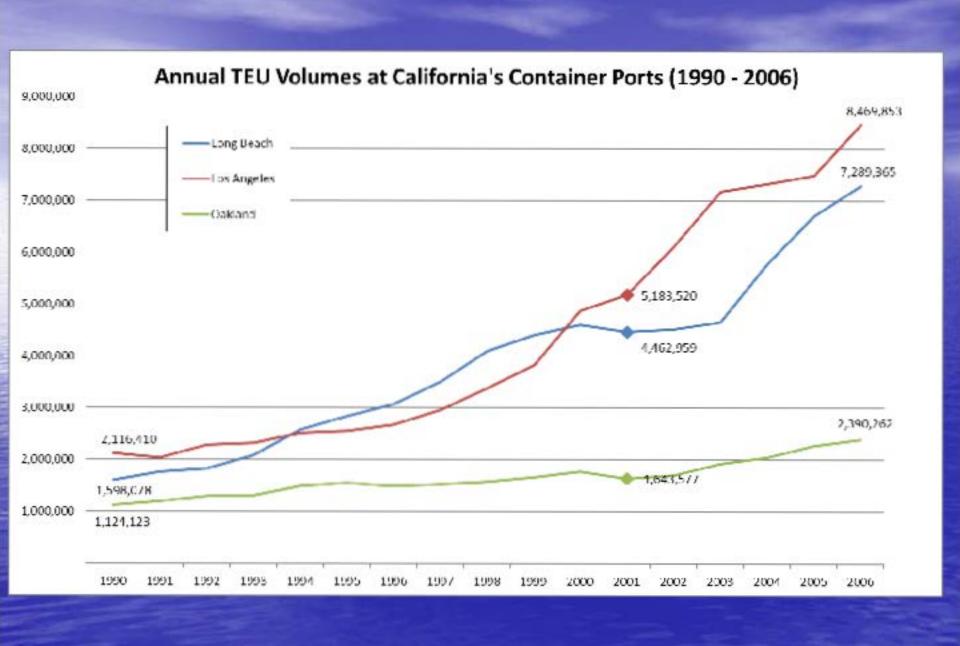
### But relying on private financing model to achieve public goals is unrealistic and ultimately counter-productive

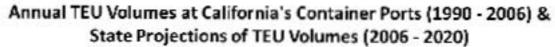
- Negative externalities and costs of trade are concentrated (environmental, infrastructure, financial), but benefits are distributed (jobs, economic growth, investment opportunities)
- Most financing does not completely account for additional costs of doing business that evolve over time, including environmental expenses, congestion relief, and tax rate differentials
- Alternatively, building too many costs into future projections discourages infrastructure investments and will under-produce investment and drive away cargo

### Port Financing is Only Sustainable with Growing Volumes

- Publicly or privately financed, existing infrastructure ventures in California are overwhelmingly market-based and rely on volume growth for funding
- Regulatory or incentive-based, existing environmental programs in California are overwhelmingly imposed on private actors who in rely on volume growth for funding







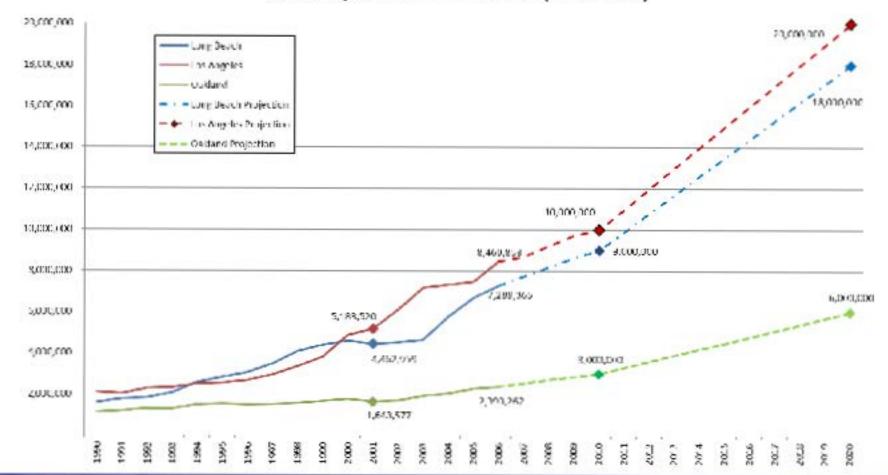


Figure A-1 Statewide Goods Movement Emissions 1222-Emission by Pollutant and Year (terms HERM Figure A-2 Port and International Goods Movement Emissions 500-450-250 **Emission by** Polutant and pre-Year (tons iday) 150 100 2010 2015

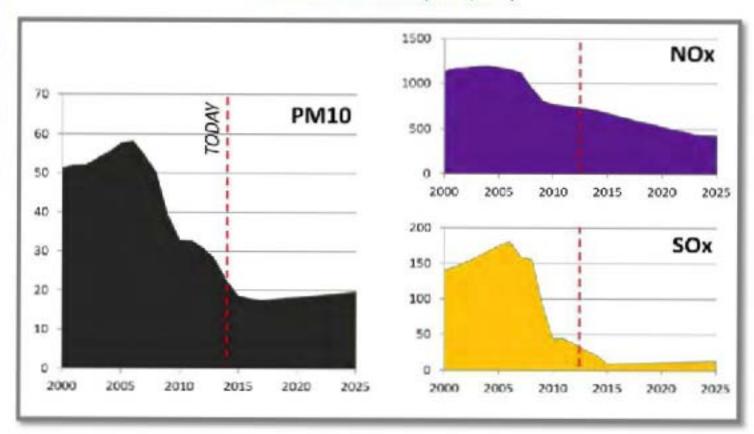
#### CARB Regulatory Cost Summary

Costs Related to CARB Regulations Imposed on Port-Related Operations Since the Passage of Prop. 1B in 2006 Are Approximately \$5 billion

CARB Regulation	Effective Date	Total Cost
Cargo Handling Equipment	2007	\$71,000,000
Harbor Craft	2009	\$140,000,000
Port Cold Ironing	2009	\$1,800,000,000
Vessel Fuel Switching	2009	\$1,500,000,000
Drayage Trucks	2010	\$1,500,000,000
	TOTAL	\$5,011,000,000

FIGURE 66. PROGRESS IN REDUCING FREIGHT EMISSIONS IN CALIFORNIA WITH

EXISTING PROGRAMS (TONS/DAY)



Source: ARB January 2014



#### Air Quality Improvements

The Principle only Boards is committed to creducing all reputity impacts are set and injured movement, each year the Port conducts an annual inventory of air emissions from port-related violates, and applies for improving attributioning and reducing hearth risks to the surrounding communities, compared to acceptivels.

in arms, Porturalated emissions of diesel particulate matter, subur oxides, introgen oxides, and greenhouse gases were reduced significantly, as shown below. Cargo volumes directly the Peris decreased about 7 percent during that time.





#### AIR QUALITY REPORT CARD 2005 - 2011

#### PRIMARY POLLUTANTS DEFINED

DRM - Diese Portouide Wohe

NOx - Oxides of Nicogun

BChc - Children of Suffur

PAin - Pariodae Maler ex hon 25 micros in done et PAIn - Pariodae Maler ex hon 10 micros in done et CO. = Cotton Docce (A Green House Gospornio, 20)

#### OVERALL EMISSIONS REDUCTIONS CV 2005-2011



Pollutant -	CY 2005 2011	
	*	kena
DPM	71%	454
PMen	69%	580
PMs	71N	673
MON	51%	8,392
SOX	76%	4,018

#### EMISSIONS PER 10,000 TEU HANDLED



Pallutant —	CY 2005-2011	
	*	Tone
DIM	78%	0.56
PMon	71%	0.60
FM <sub>10</sub>	73%	0.95
NOx	515	11.54
50s	77%	5.5

#### CICE ANAGOING VESSEL EMISSIONS REDUCTIONS



	GY 2845-2011	
POMINIBE		fone
CPM	76%	353
™ <sub>er</sub>	157%	834
₹V <sub>U</sub>	578.	416
140s	30%	7,608
80x	76%	3,895

#### HEAVY-DUTY VEHICLE/CIEAN TRUCK EMISSIONS REDUCTIONS



Pollutant	CY 2005-2011	
	7.	tons
DPM	01%	223
PM <sub>40</sub>	21%	204
Ww	918	222
NOte:	70%	4,948
30x	21%	54

#### MEETING OUR CLEAN AIR COMMITMENT



#### **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%

SEPTEMBER 2013



15% AWAY 85% From our 2020 goal of:

The Port of Oakland oversees the 5th busiest

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

www.portofoakland.com

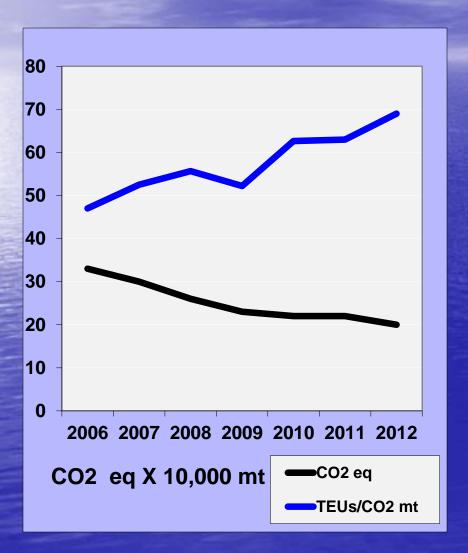
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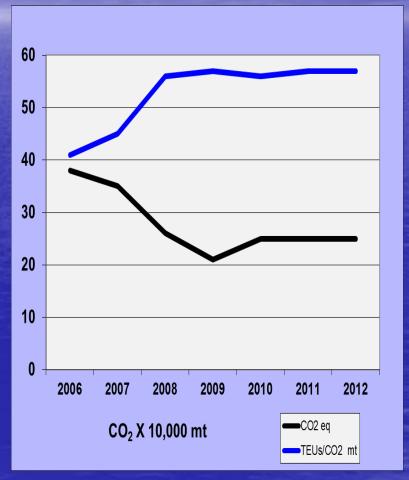
container port in the U.S.; Oakland International Airport, the 2nd largest passenger airport and #1 air cargo airport in the San Francisco Bay Area; and 20 miles of waterfront, including Jack London Square and hundreds of acres of public parks and conservation areas. Port operations and those of its 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.

### San Pedro Bay GHG Emissions

**Container Vessel GHGs** 

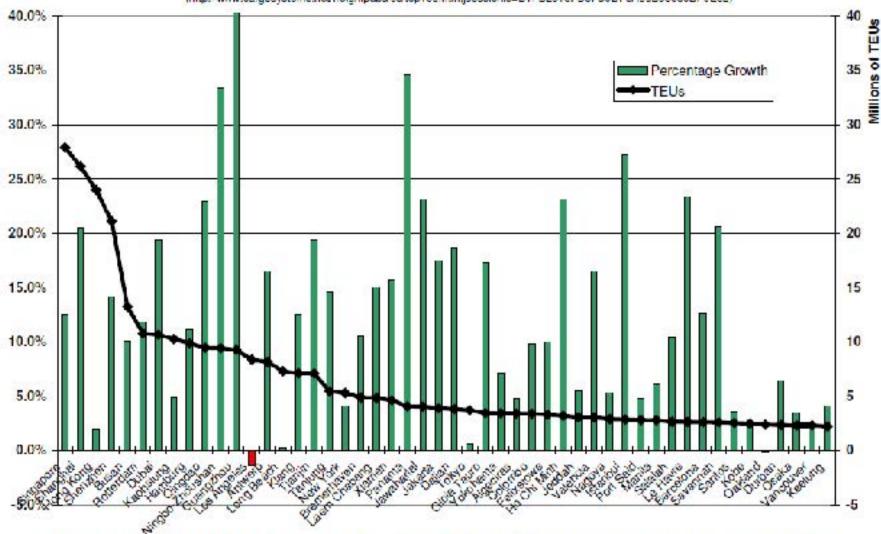


**Cargo Handling Equipment GHGs** 

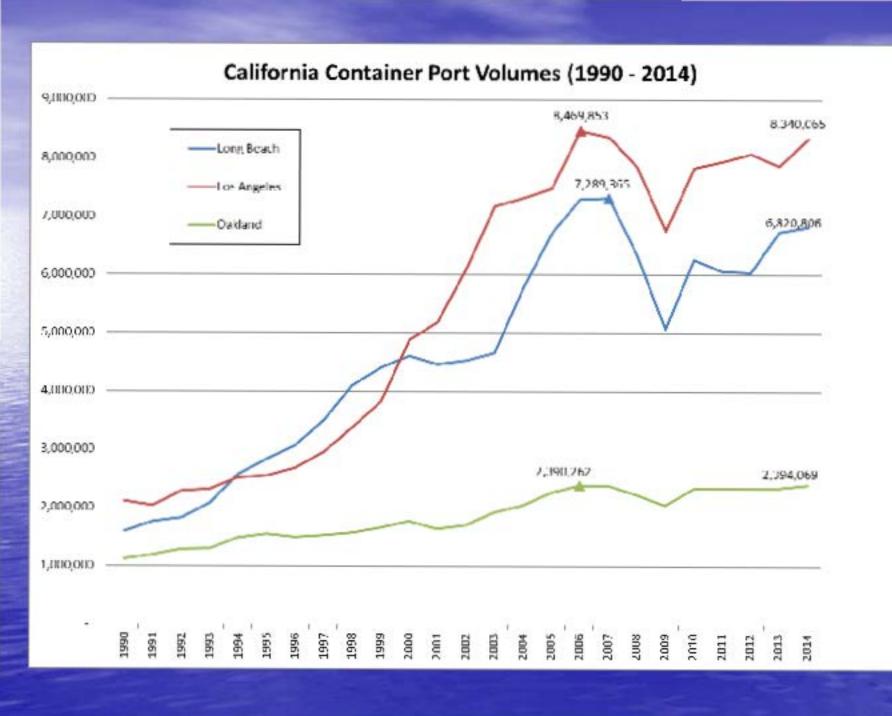


#### 2007 Growth for the World's 50 Largest Ports by TEU Volume

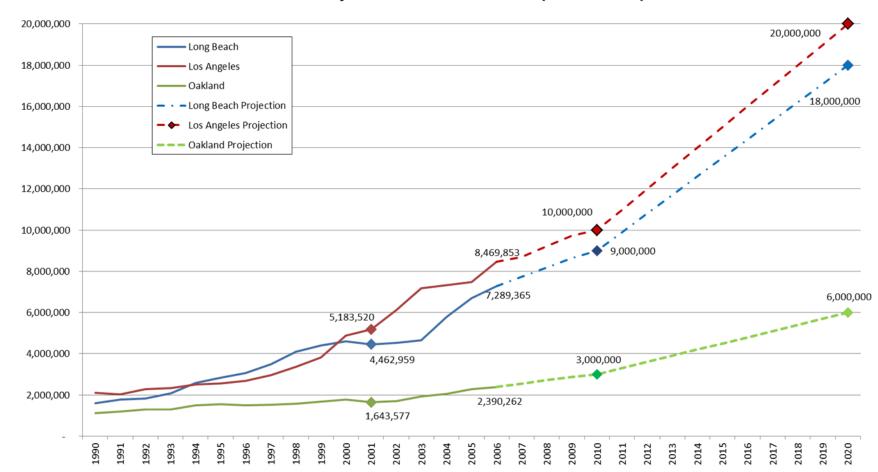
Source: "CS Top 100 Container Ports 2008" (http://www.cargosystems.net/freightpubs/cs/top100.htm;jsessionid=B1FB2518FD67C0DF6A30B39930BF0E52)



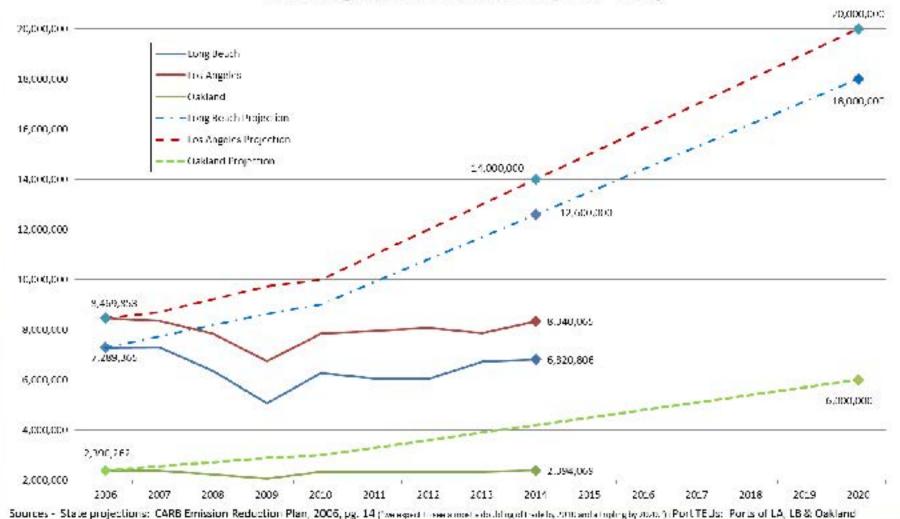
Out of the Top 50 World Ports, Only the Ports of Los Angeles and Oakland had Negative Growth Before the Recession Hit



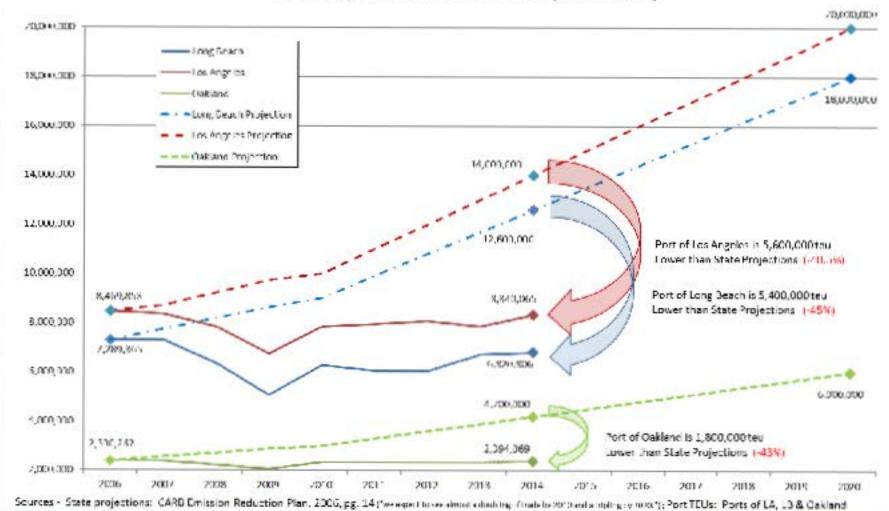
### Annual TEU Volumes at California's Container Ports (1990 - 2006) & State Projections of TEU Volumes (2006 - 2020)

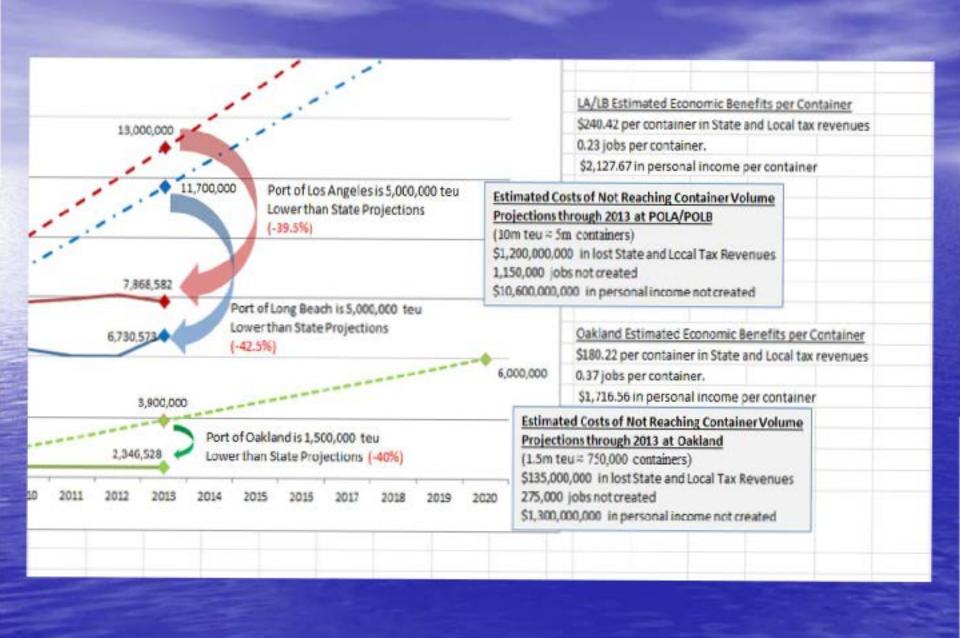


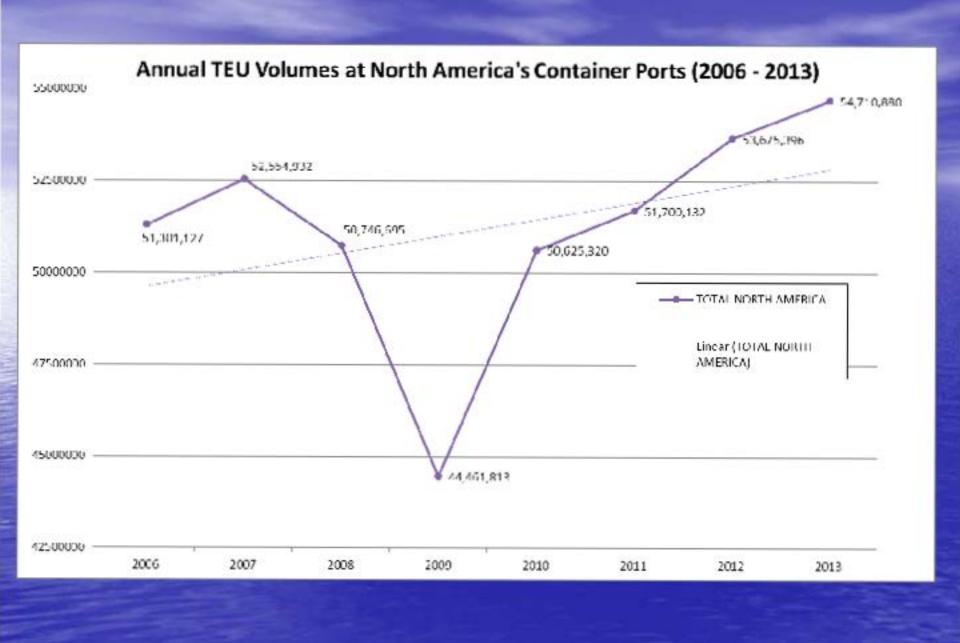
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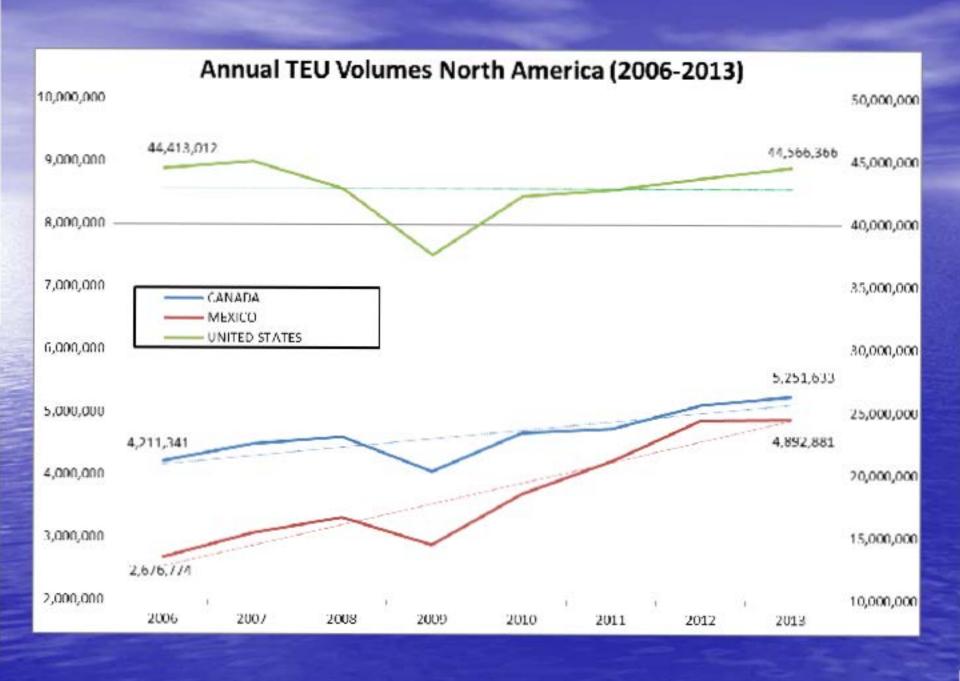


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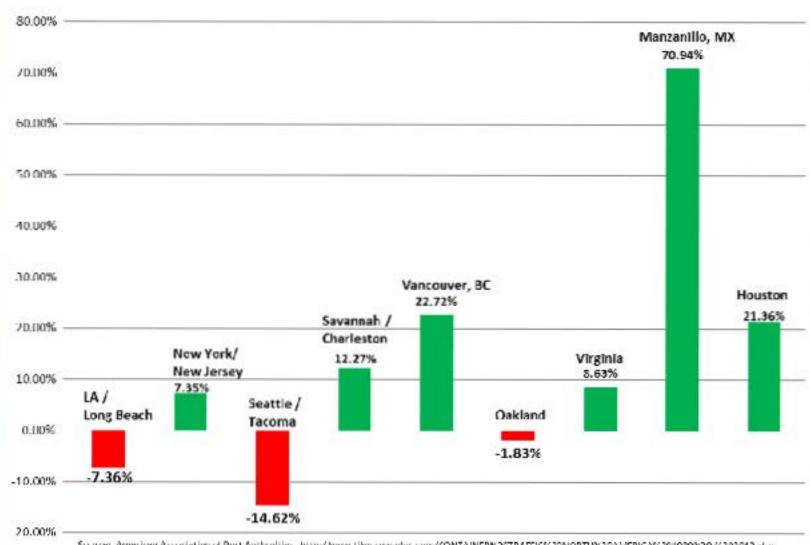




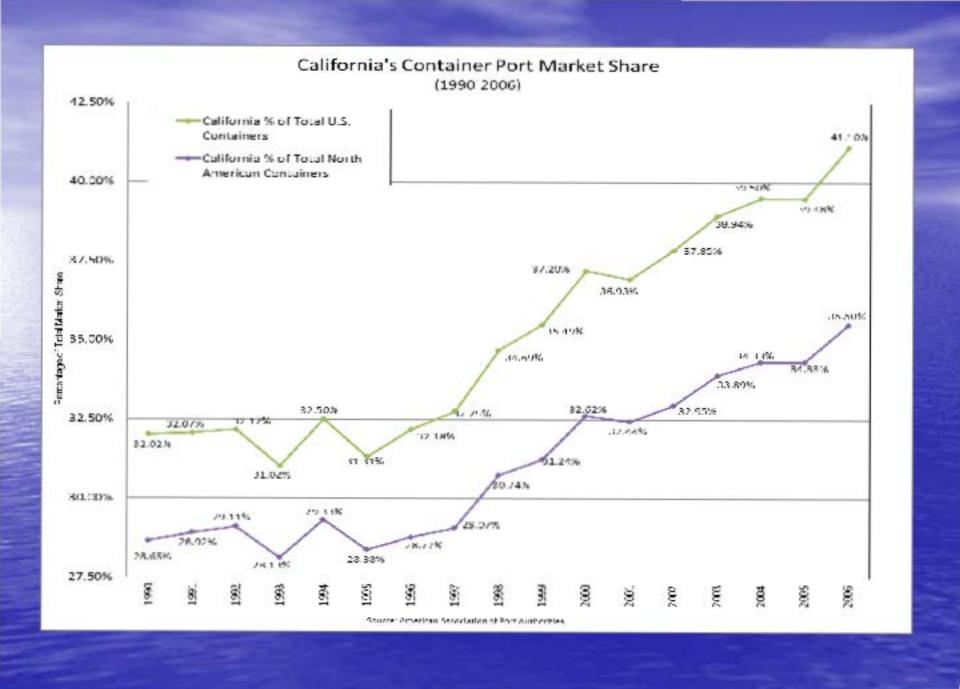


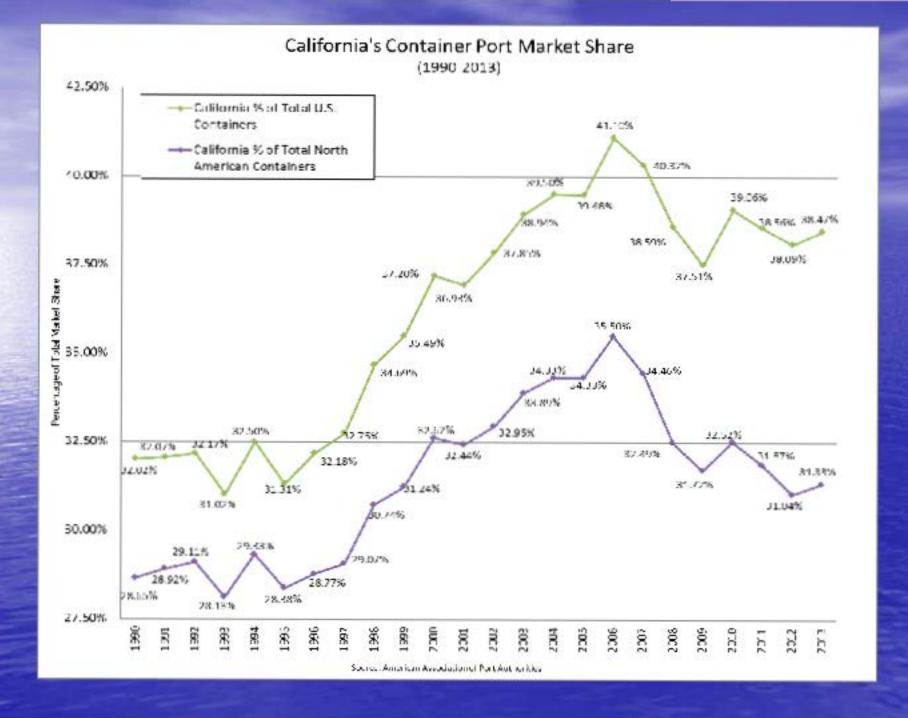
#### Growth at Largest North American Port Complexes (2006-2013)

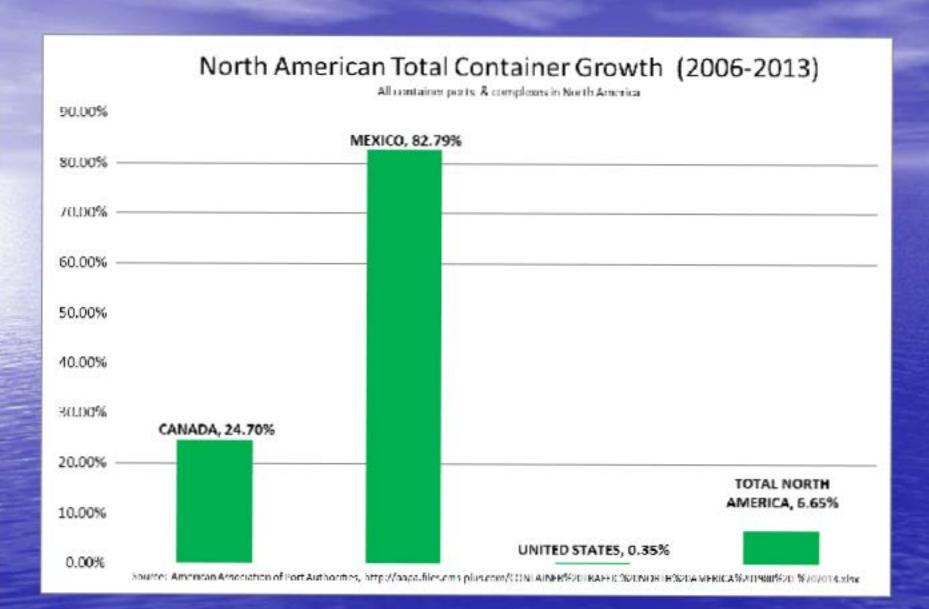
All container ports. A complement in North America with Volumes of -2m TUs or greater in 2010, from largest (LA/IR) to Smallest (Houseant)



So one: American Association of Part Authorities, http://weps.files.com/giontainte%20TBAFFIC%20NOBTH%20AVFBICA%201980%20%2032013 view







## California's "Cost per Box" Bad Math A Recipe for Stopping Future Growth:

- Base Supply Chain Costs + California Only Costs
  - Decreasing/Stagnant Container Volumes
  - Increase concentration of "California Only Costs"
  - And Container Volumes Decrease,
  - Result: "Costs per Box" Continuously Go Up and Volumes Go Down, Resulting in fewer Economic benefits, Jobs and Tax Revenues.

### Focus on Growth and offset costs to create a Virtuous Cycle and Win-Win Outcomes:

- Base Supply Chain Costs + Limited Calif. Costs
   Container Volumes Growing Faster
- Grow cargo volumes faster than imposition of new Costs;
- Maintain competitive position;
- Result: Sustainable Financing of Environmental AND Infrastructure Improvements with Job, Tax, Economic Impact and Air Quality Benefits

## How do we change our Math? Current Legislative Initiatives

SB 63 (Hall) – Seaport Enhanced Infrastructure Financing Districts

Will not only provide new tax increment financing for seaports which can capture value from improvements outside of a traditional revenue bond model, but also specifically amends the existing definition of "port and harbor infrastructure" to include all environmental projects AB 678 (O'Donnell) – Energy Efficient Ports

Will direct CARB and the Energy Commission to create a seaport energy and zero-emissions program to determine when projects would be eligible for Greenhouse Gas Reduction Fund subsidies. Projects to include:

- -- Solar and Renewable Generation Projects
- -- LED and Energy Conservation Projects
- -- Zero-emissions implementation Projects
- -- Cold-Ironing Infrastructure Investments

## How do we change our Math? Additional Opportunities

- INCENTIVES: Facilitate private sector investment in trade infrastructure and trade volumes through the creation of incentives that encourage the accelerated development of infrastructure despite current lower cargo volume.
- Possible Approaches:
  - California Competes Set-Aside
  - New Cargo & Infrastructure Tax Credits
  - Further Re-investment of GGRF

## How do we change our Math? Additional Opportunities

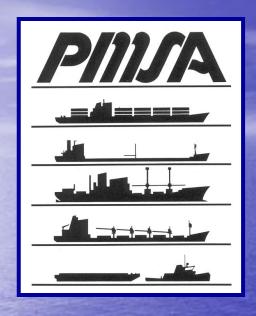
 Sustainable Freight Strategy: A successful Sustainable Freight Strategy will align the financing of environmental investments with growing cargo volumes, jobs & tax revenues.



The California Trade Coalition

A Coalition Working to Keep California Competitive in a Global Economy

California's policies must support efforts to enhance logistics industry growth, competitiveness, job creation, and their resulting tax revenue increases; while seeking to create a sustainable freight system. These enhanced revenues and trade volumes are necessary if we are to successfully fund and finance additional investments in freight infrastructure, operational efficiencies, and cleaner technologies. Likewise, goods movement system improvements which further implement new transportation technology infrastructure and make other air quality improvements and greenhouse gas emissions reductions should be incentivized and directly funded by the state to further improve both our economy and our environment.



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