



Port of  
**LONG BEACH**  
THE PORT OF CHOICE

# THE PORT OF CHOICE

Dr. Noel Hacegaba

Chief Operating Officer, Port of Long Beach

TRANSPORT SECURITY UNIFIED STAKEHOLDERS GROUP

September 12, 2023

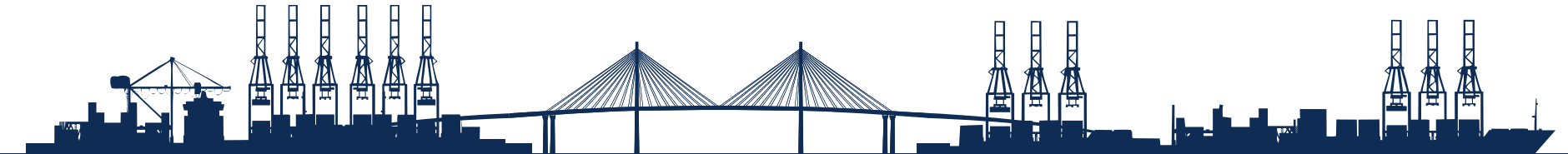
# PORT OF LONG BEACH

An aerial photograph of the Port of Long Beach, California. The port is a large, multi-lobed area filled with stacks of colorful shipping containers and several large gantry cranes. It is situated along a deep waterway that branches out from the Pacific Ocean. The surrounding area is densely populated with residential and commercial buildings, with a city grid visible. In the background, there are rolling hills and mountains under a clear blue sky.

\$200 Billion in Trade Annually  
2.6 Million Jobs Nationally  
575,000 Jobs in Southern California

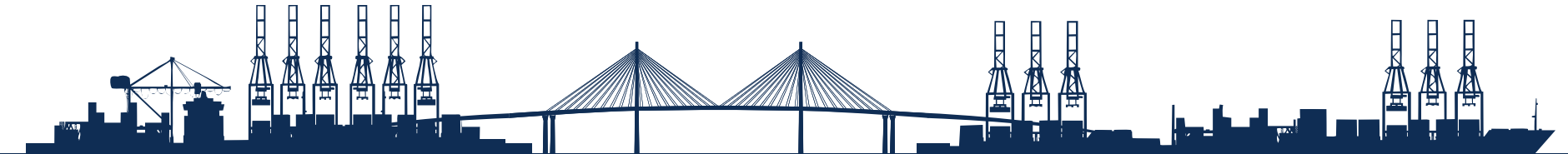
## TOP TRADING PARTNERS FOR IMPORTS BY TEUS:

1. China
2. Vietnam
3. South Korea
4. Japan
5. Hong Kong
6. Taiwan
7. Italy
8. Thailand
9. Australia
10. Malaysia



## TOP TRADING PARTNERS FOR EXPORTS BY TEUS

1. China
2. South Korea
3. Taiwan
4. Japan
5. Vietnam
6. Australia
7. Hong Kong
8. Indonesia
9. Thailand
10. Malaysia





**22**  
DAYS

LONG BEACH

COLUMBUS

SHANGHAI

**31**  
DAYS

PANAMA CANAL

**MOST DIRECT**  
BETWEEN ASIA AND MOST OF  
AMERICA

# MOST CONNECTED

ACCESS TO MAJOR U.S. RAIL  
HUBS



# POLB TOP IMPORTS



\*Twenty-foot Equivalent Units (TEUs) or 20-foot-long containers

# POLB TOP EXPORTS

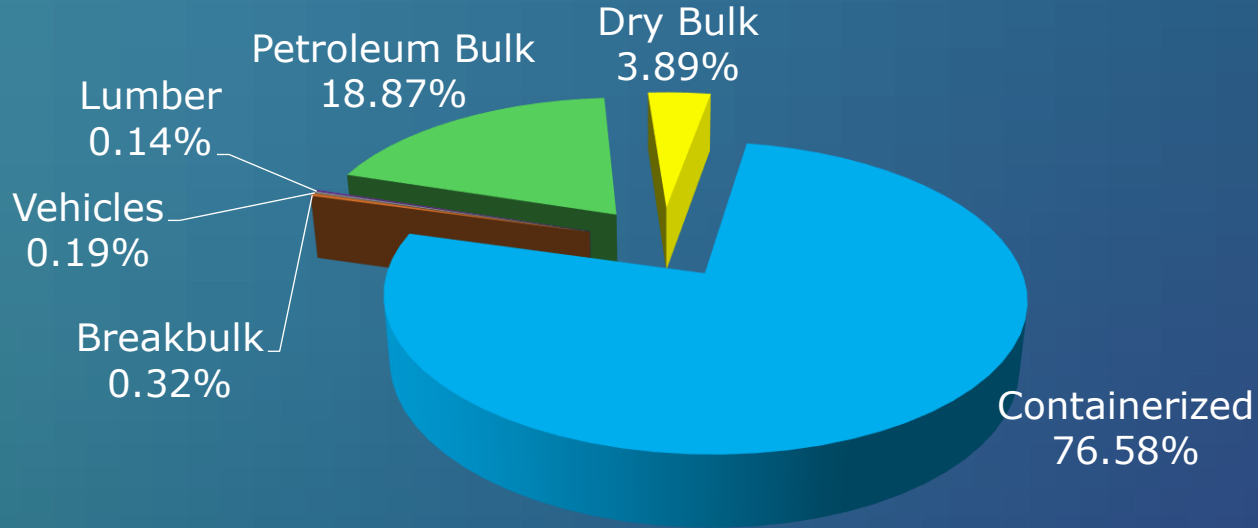


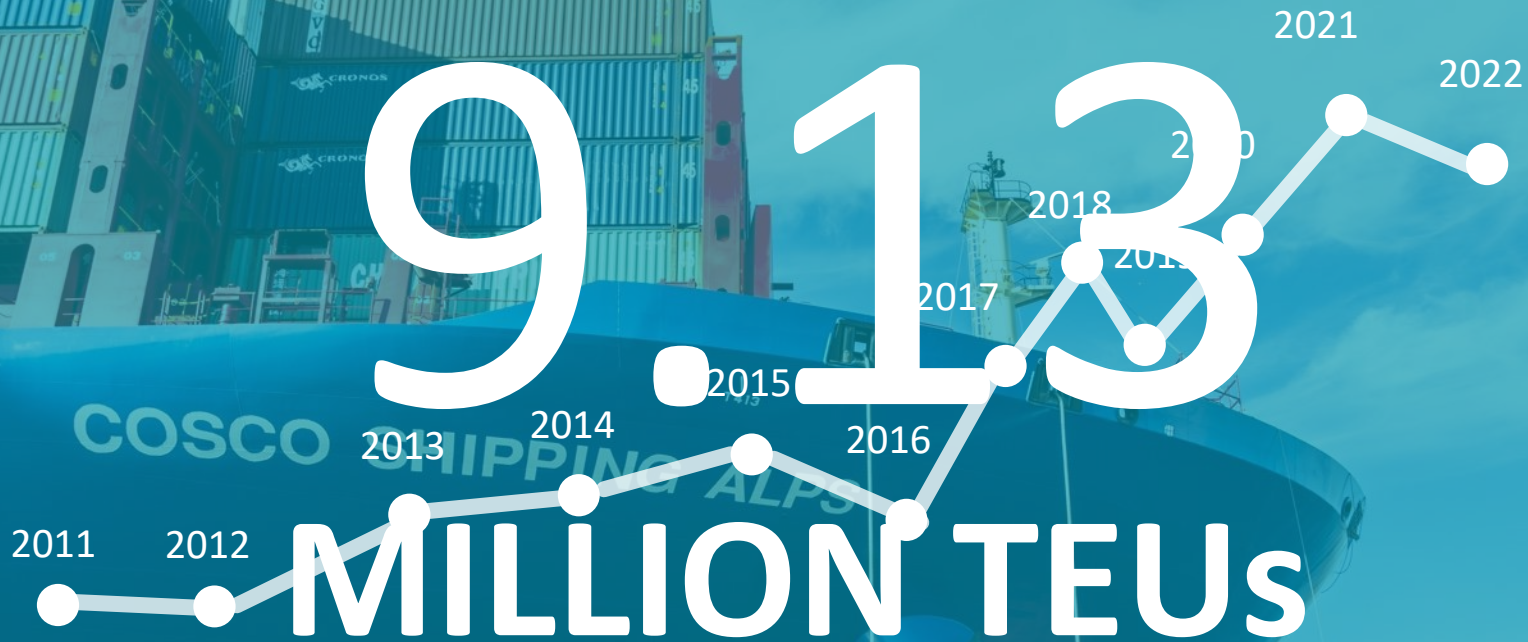
\*Twenty-foot Equivalent Units (TEUs) or 20-foot-long containers



# POLB CARGO PROFILE

BASED ON METRIC REVENUE TONS





2.7 PERCENT



2021

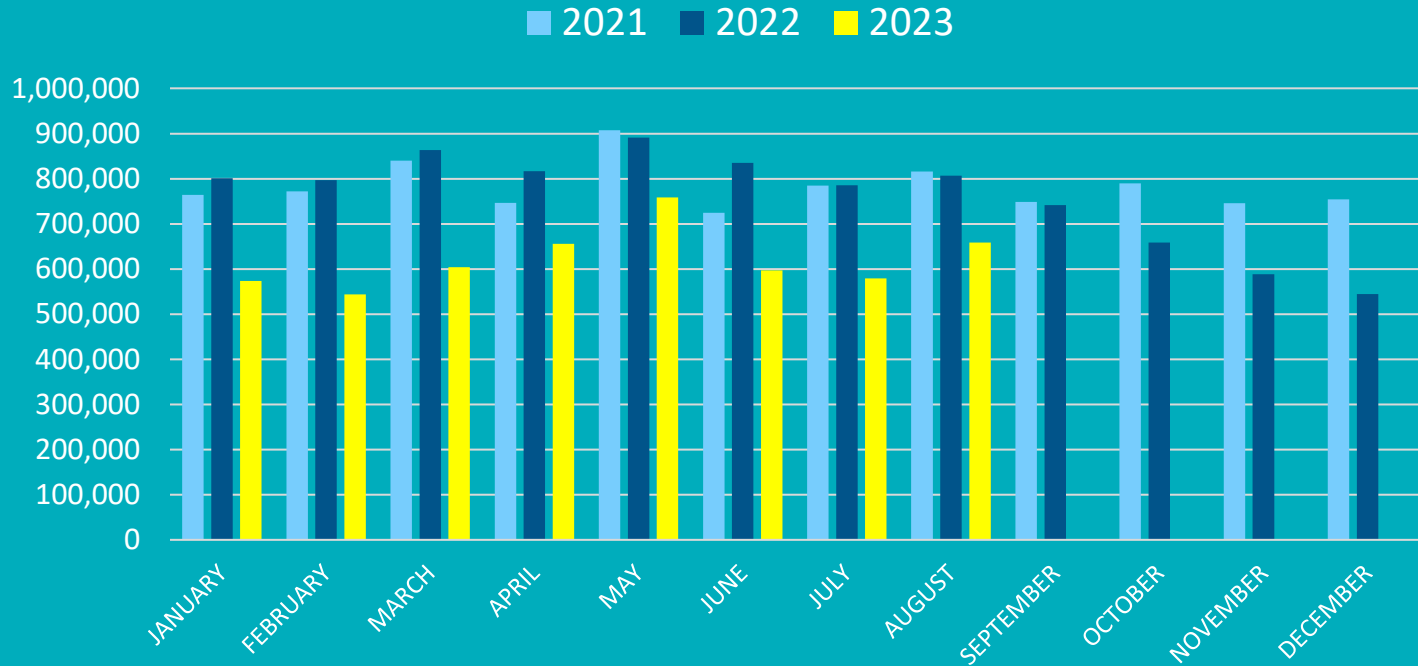
2022

# SECOND BUSIEST YEAR

9.4 MILLION TEUS

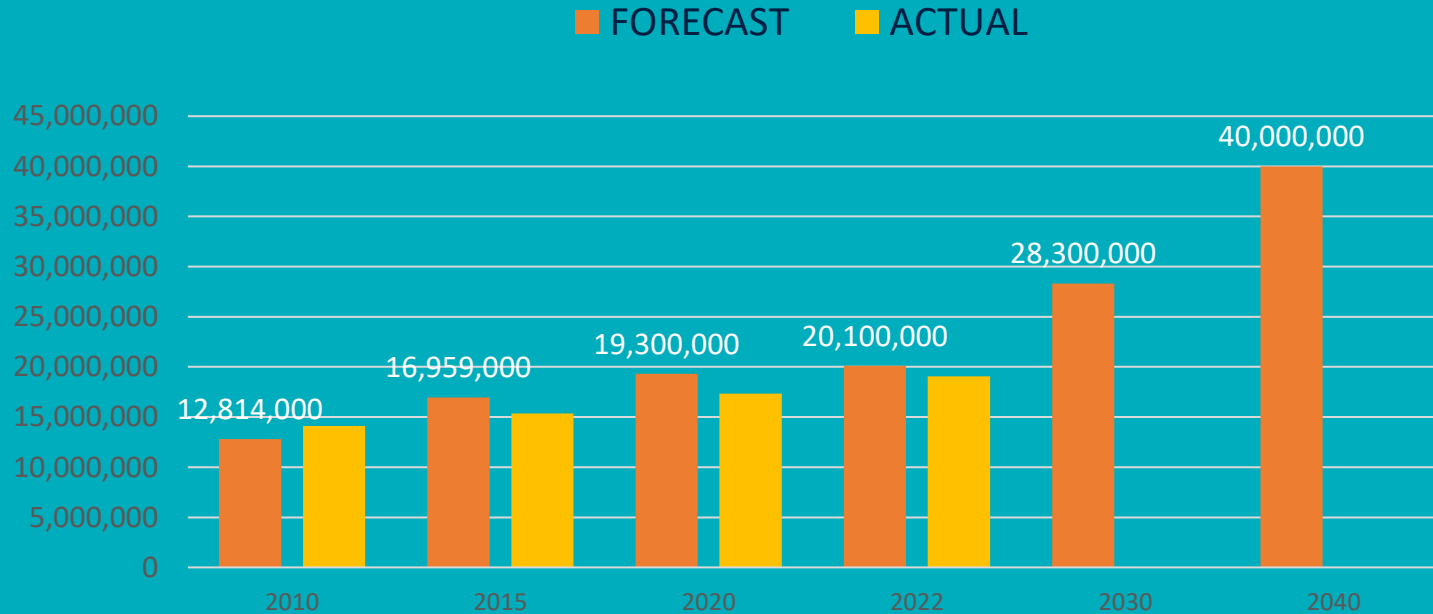
9.1 MILLION TEUS

# PORT OF LONG BEACH MONTHLY TEUs\*



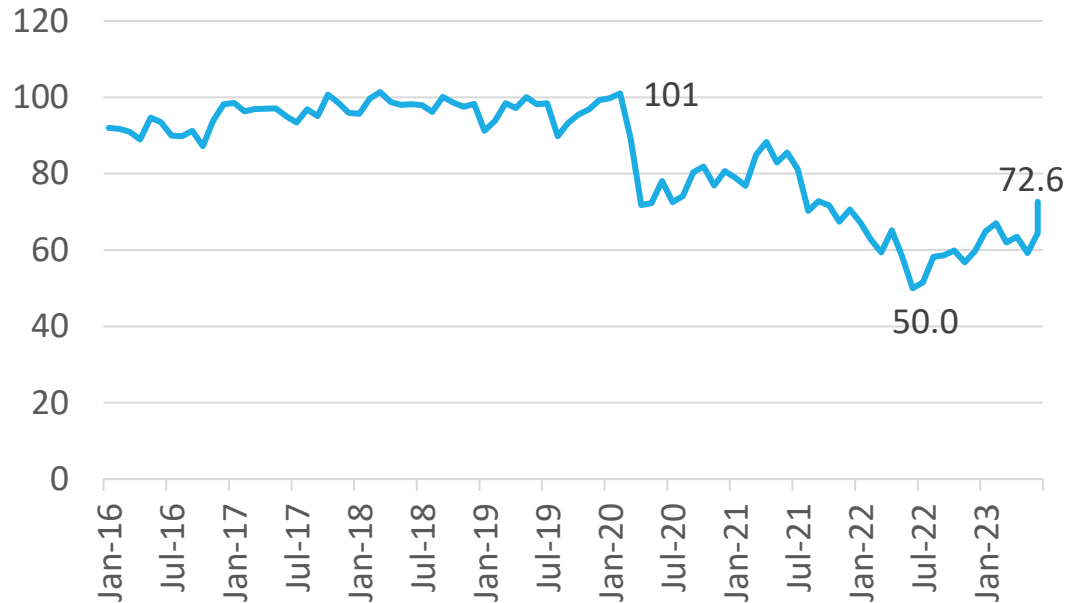
\*Twenty-foot equivalent units (TEUs) or 20-foot-long containers

# SPB FORECAST & ACTUAL (TEUs)



\*Twenty-foot equivalent units (TEUs) or 20-foot-long containers

# Consumers feeling better, but not great



The University of Michigan consumer sentiment index jumped more than anticipated in July, thanks to a rise in stock prices, moderation in inflation and low unemployment. The gain in sentiment was the largest since 2006, rising from 64.4 in May to 72.6 in June. While encouraging, the increase is still depressed relative to pre-pandemic levels and does not justify a change in the near-term forecast for real consumer spending to slow in the coming months.

# INFRASTRUCTURE

INVESTING IN PORTS AND WATERWAYS



# 2022-23 State Budget

\$2.3 Billion for goods movement  
and supply chain projects





# Ports of Long Beach, LA to get more than \$600M to boost efficiency and air quality

By Alicia Robinson

State grants totaling \$1.5 billion, including more than \$383 million for the Port of Long Beach and \$233 million for the Port of Los Angeles, will help smooth out snags in the supply chain and also reduce air pollution, officials said on July 6.

Projects the funding will help pay for include zero-emission vehicles and equipment at the Port of Long Beach, expansion of a chassis and cargo container storage facility at the Port of Los Angeles, and road improvements and upgraded train crossings for ports up and down the California coast.

“These grants will produce

major benefits in the form of increased jobs, greater economic opportunity and cleaner skies in the years ahead,” Port of Long Beach Chief Operating Officer Noel Hacegaba said at a press conference announcing the funding.

Officials estimate the funding will help create or retain as many as 20,000 jobs.

Some of the Long Beach port’s money will go to a new on-dock rail facility so more cargo can be moved by trains rather than trucks, zero-emission locomotives, and the creation of a grant program to retrofit or replace tugboats and other harbor vessels to reduce pollution.

California State Transportation

Agency Secretary Toks Omishakin said that while the funding won’t cover the full cost of every project, it will put them in a better position to compete for federal infrastructure dollars.

“It’s going to modernize piers, wharfs and docks, expand capacity and improve port efficiency, provide zero-emission terminal equipment, expand truck battery charging and hydrogen fueling locations, improve critical grade separations and grade crossings, and further active transportation at or around the ports,” said Omishakin.

Standing on the helipad atop the port’s command center, officials recalled how in November 2021—with the port clogged and ships backed up into the harbor—Gov. Gavin Newsom pledged to address supply chain bottlenecks in both the short and long term.

Newsom “kept his promise, and that promise was to invest in goods movement, to invest in California ports and to invest in the sustainable

development of our quest to address the climate change issue,” Port of Long Beach Executive Director Mario Cordero said.

Other projects receiving some of the state funding include rail line improvements in the San Fernando Valley, rail crossing separations in Riverside and Santa Ana, zero-emission cargo handling equipment for the Port of Hueneme, and modernizing the terminal at the Port of Oakland. ■



Alicia Robinson / Business Journal

California State Transportation Agency Secretary Toks Omishakin announces \$1.5 billion in state grants to improve goods movement and reduce emissions at California ports.



**CalSTA**  
CALIFORNIA STATE TRANSPORTATION AGENCY

DATE **July 6, 2023**

PAY TO THE ORDER OF **City of Long Beach Harbor Department (Port of Long Beach)** \$ **\$383,346,997**

Three Hundred Eighty-Three Million, Three Hundred Forty-Six Thousand, Nine Hundred Ninety-Seven and **0 / 100** DOLLARS

FOR **System-Wide Investment in Freight Transport (SWIFT)**

Secretary: *Tokos Omishakin*

⑆325760408⑆ 003492: 0583 42

Port of **LONG BEACH**  
**\$2.2 BILLION** in **CAPITAL PROJECTS**  
FY 2024-2033



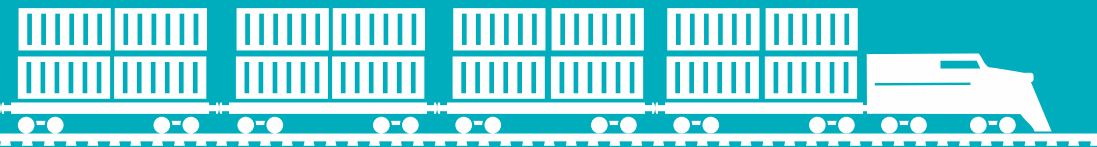
- 
- **INCREASE TERMINAL CAPACITY**
  - **INCREASE RAIL CAPACITY**
  - **IMPROVE OPERATIONAL EFFICIENCY**
  - **IMPLEMENT ZERO-EMISSIONS INFRASTRUCTURE**

# PIER B ON-DOCK RAIL SUPPORT FACILITY



## PHASE 1 PROJECTS

- EAST EXPANSION: \$52M
- WEST EXPANSION & PIER B STREET REALIGNMENT: \$94M
- LOCOMOTIVE FACILITY: \$34M



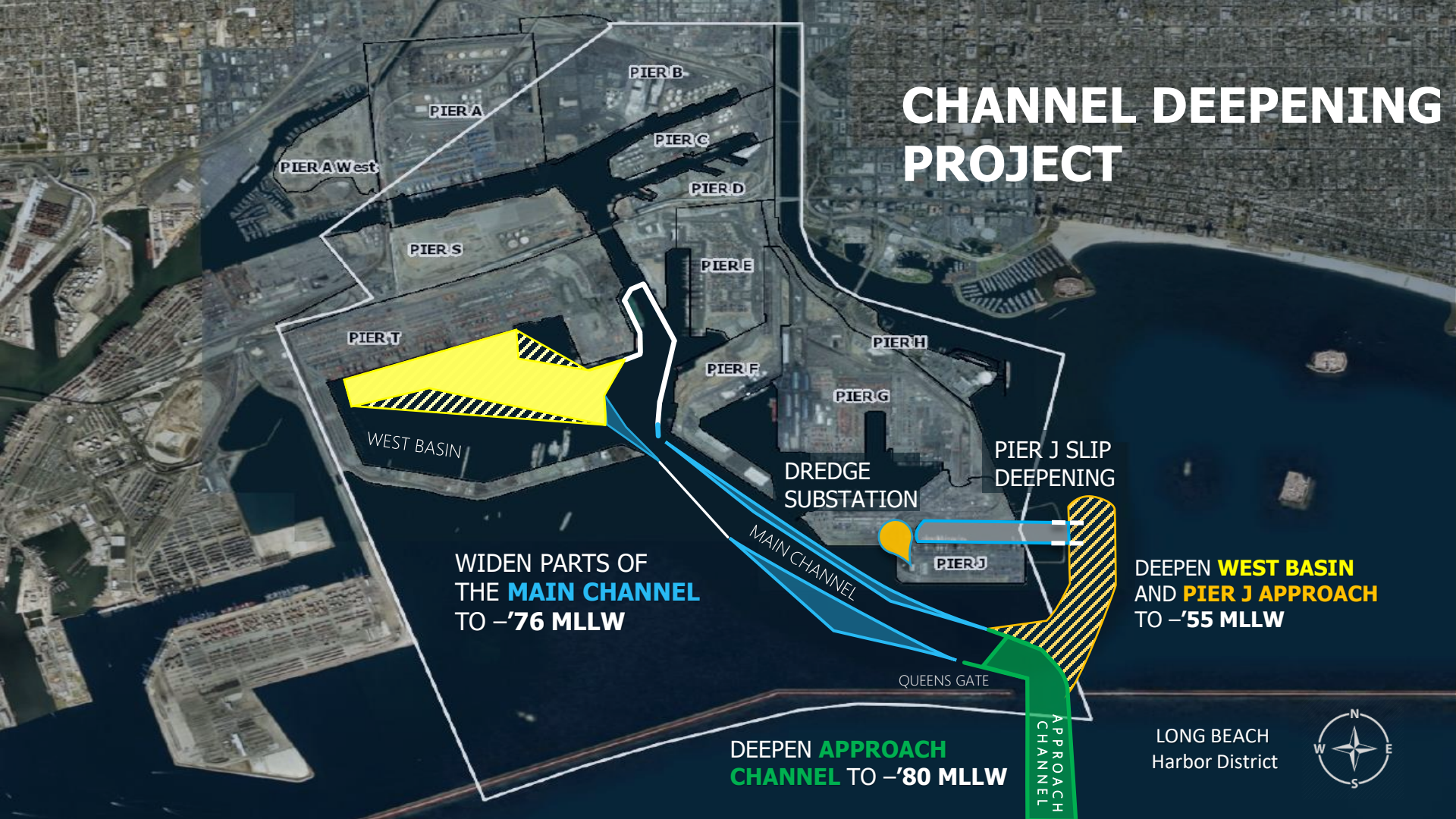
ONE  
TRAIN =



750

Truck trips eliminated by one  
double-stacked on-dock train

# CHANNEL DEEPENING PROJECT



WIDEN PARTS OF THE **MAIN CHANNEL** TO **-76 MLLW**

DEEPEN **WEST BASIN** AND **PIER J APPROACH** TO **-55 MLLW**

DEEPEN **APPROACH CHANNEL** TO **-80 MLLW**

LONG BEACH  
Harbor District



# ADVANCED TECHNOLOGY

LONG BEACH CONTAINER TERMINAL





# NEW BRIDGE FOR A NEW ERA

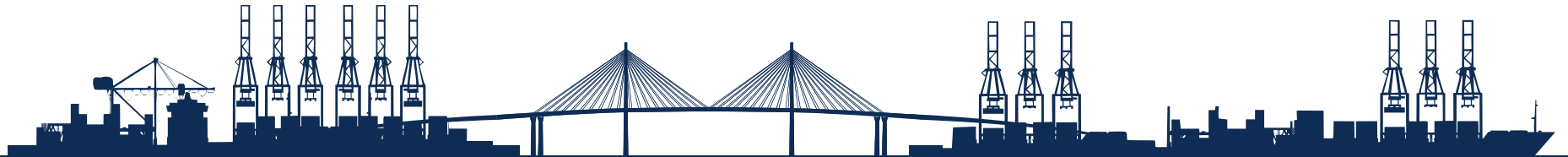
LONG BEACH INTERNATIONAL GATEWAY BRIDGE





# EQUITY IN INFRASTRUCTURE PROJECT

- Increase economic opportunities for HUBs
- Create prime, joint venture & equity opportunities
- Facilitate access & reduce barriers to competition



# UPDATED CLEAN AIR ACTION PLAN

ADOPTED IN **2017** BY THE LONG BEACH AND LOS ANGELES BOARDS OF HARBOR COMMISSIONERS

- **A ZERO-EMISSIONS TRUCK FLEET**
- **ADOPT 'INTELLIGENT' EFFICIENCY SYSTEMS**
- **DEPLOY ZERO-EMISSIONS YARD EQUIPMENT**
- **EXPAND ON-DOCK RAIL TO 50 PERCENT**
- **REDUCE GHGS 40% BY 2030 AND 80% BY 2050**

# 2022 EMISSIONS INVENTORY

---



↓ DIESEL SOOT



↓ NITROGEN  
OXIDES



↓ SULFUR  
OXIDES



↓ GREENHOUSE  
GASES

THIS WAS DURING A TIME WHEN  
CONTAINER CARGO JUMPED 36%



Compared to 2005 Levels

ZEEERO   
Zero Emissions, Energy Resilient Operations



Port of  
**LONG BEACH**  
THE GREEN PORT

# OFFSHORE WIND POWER

PIER WIND PROPOSED STAGING FACILITY

- PLAN TO ENABLE STATE TO REACH RENEWABLE POWER GENERATION GOALS
- CONSTRUCT NEW "PIER WIND" TERMINAL
- ASSEMBLE EIFFEL TOWER-SIZE WIND TURBINES
- TOW TO CENTRAL, NORTHERN CALIFORNIA SITES
- DRAWS UPON LOCAL, SKILLED WORKFORCE

# CLEANER SHIPS

---

- GREEN SHIP INCENTIVE PROGRAM
- GREEN FLAG VESSEL SPEED REDUCTION PROGRAM
- GREEN SHIPPING CORRIDORS
  - LONG BEACH ↔ SHANGHAI
  - LONG BEACH ↔ SINGAPORE



# CLEAN TRUCK PROGRAM



- **JOINT PROGRAM FOR SAN PEDRO BAY PORTS**
- **RAISE REVENUE TO FUND NEW TRUCKS, INFRASTRUCTURE**
- **23,000-PLUS TRUCKS CURRENTLY SERVING TWO PORTS**
- **ZE TRUCK TECHNOLOGY ADVANCING, STILL NASCENT**



**START PHASE 1**  
**CARB \$50 MILLION**

- 33 ELECTRIC YARD TRACTORS
- 1 ELECTRIC TOP HANDLER
  - NZE TUGBOAT
  - TIER 3 SHIPS
- 5 ELECTRIC TRUCKS

**ZE EQUIPMENT**  
**TRANSITION PROJECT**  
**CEC \$9.75 MILLION**

- 12 ELECTRIC YARD TRACTORS
  - 9 ELECTRIC RTG
- 4 LNG HYBRID ELECTRIC TRUCKS

# \$70 MILLION

## GRANT-FUNDED, ZERO-EMISSIONS PROJECTS

**ELECTRIC VEHICLE**  
**BLUEPRINT**  
**CEC \$200,000**

**GRANT FARM \$76,000**

PLAN TO ACCELERATE THE DEPLOYMENT  
OF ZERO-EMISSIONS TERMINAL  
EQUIPMENT AND TRUCKS

**MICROGRID**  
**CEC \$5 MILLION**

INSTALL SYSTEM FOR CONTROL,  
GENERATION AND STORAGE OF  
ELECTRICAL POWER AT JCCC, TO  
DEMONSTRATE POWER RESILIENCY

**C-PORT PROJECT**  
**CARB \$5.3 MILLION**

- 3 ELECTRIC TOP PICKS
- 1 ELECTRIC YARD TRACTOR
- 1 FUEL CELL YARD TRACTOR

# ABUNDANT HARBOR

60% MORE PLANTS AND ANIMALS

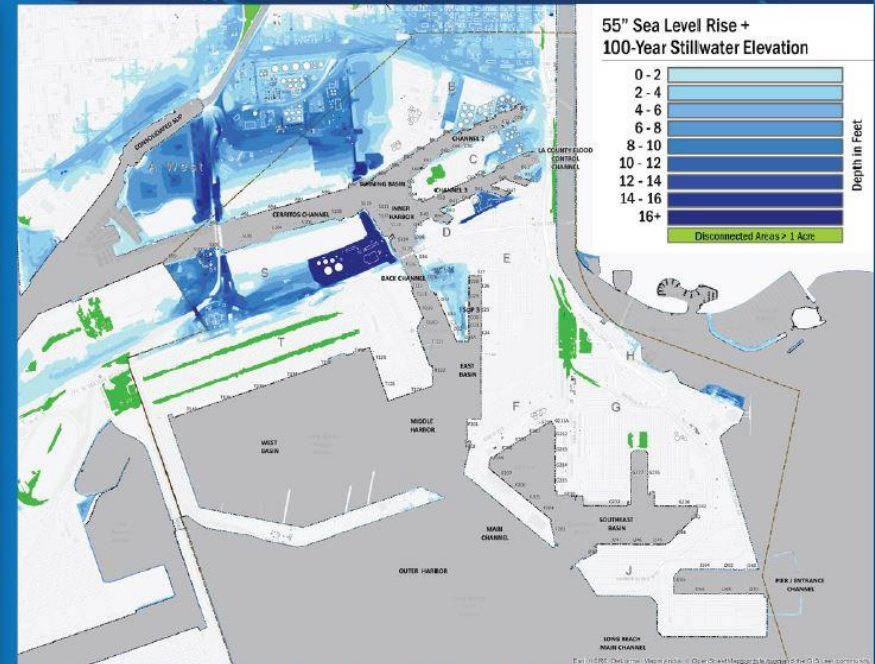


# INUNDATION MAPS

## CLIMATE ADAPTATION AND COASTAL RESILIENCY PLAN



Least Extreme: 16" Sea Level Rise



Most Extreme: 55" Sea Level Rise + 100-year Storm Surge

# EDUCATION OUTREACH

- Scholarships
- Internships
- Women in Trade
- Engineers Week
- Career Days
- Harbor Tours
- Presentations
- Teacher Externships



Supply Chain   
**INFORMATION  
HIGHWAY**

 **Port of  
LONG BEACH**  
THE PORT OF CHOICE



Supply Chain 

# INFORMATION HIGHWAY

---



*Supply Chain* 

# INFORMATION HIGHWAY

- Increase Cargo Visibility
- Increase Seaport Velocity
- Liberate Data from Legacy Transportation Systems
- Increase Access for All
- Increase Timeliness, Accuracy



**Optimize the Supply Chain**



# THREE NEW FEATURES

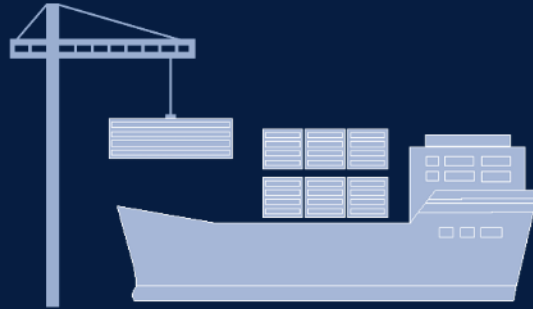
**1**

BCO Command  
Center



**2**

Port Operations  
Dashboard



**3**

Public Track and  
Trace





## Key Takeaways

- This is **not** a one-size-fits-all optimizer or dashboard.
- Supply Chain partners can use the data to customize and apply data in their **own way** to help with planning, scheduling, reporting and optimization.
- The Port of Long Beach is providing this **free of charge** to its authorized partners.
- Data sharing participants will have their **proprietary data protected**.

# WORKFORCE DEVELOPMENT

GOODS MOVEMENT WORKFORCE TRAINING CAMPUS



# PORT OF LONG BEACH AND PORT OF LOS ANGELES GOODS MOVEMENT TRAINING CAMPUS





Port of  
**LONG BEACH**  
THE PORT OF CHOICE

**THANK YOU**

