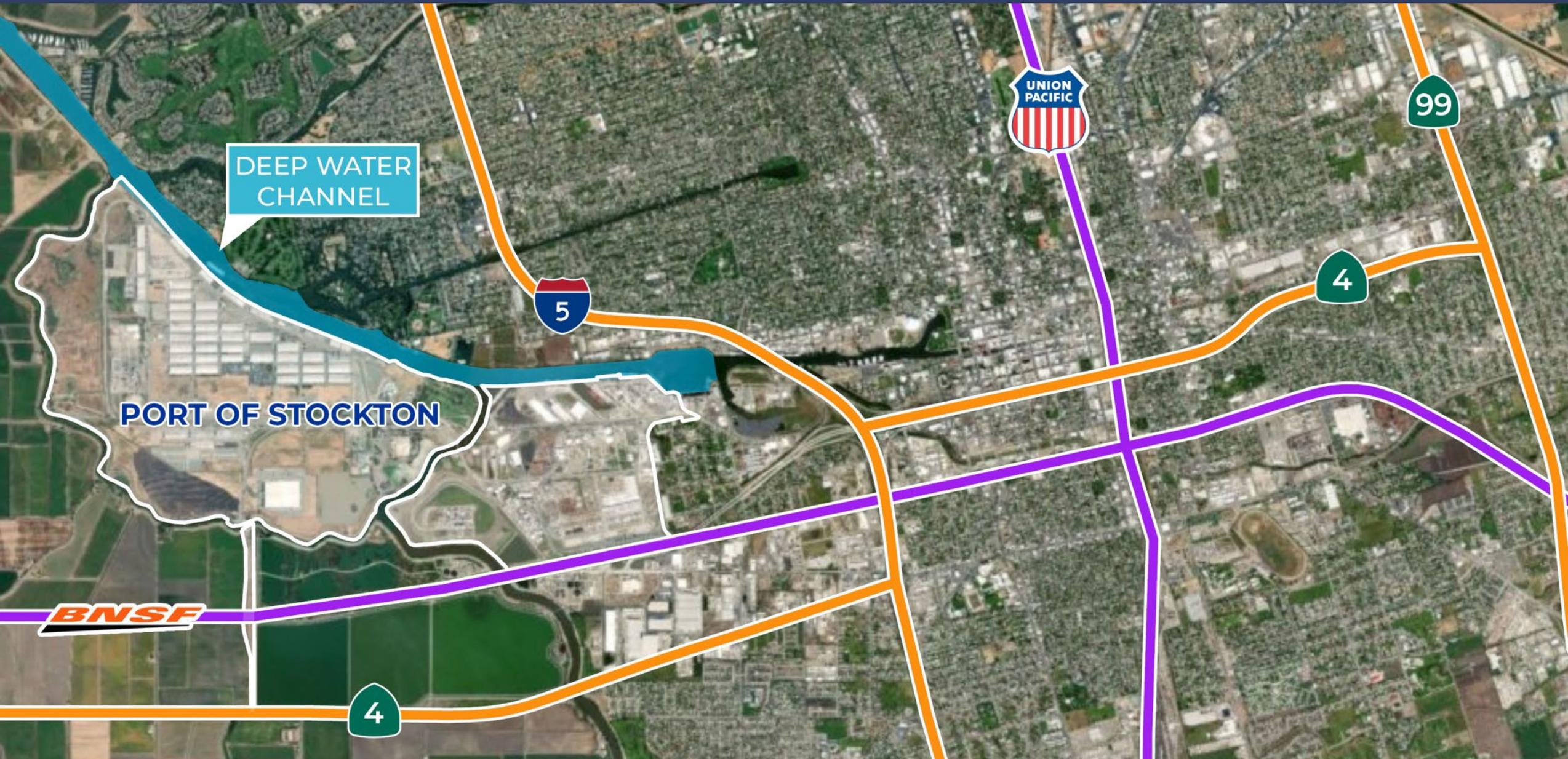


# Port of Stockton

California Inland Ports

Jeff Wingfield, Deputy Port Director of Regulatory and Public Affairs  
2023 CMANC Fall Meeting



DEEP WATER CHANNEL

PORT OF STOCKTON

**BNSF**





## PROPERTY

**NEARLY 4,000  
TOTAL ACRES**  
(1620 HECTARES)

**OF PROPERTY ALONG THE  
DEEPWATER CHANNEL**

## STORAGE

**Over 7 MILLION  
SQUARE FEET**



**(650,000 SQ. METERS) OF COVERED STORAGE AREA**

## DOCK

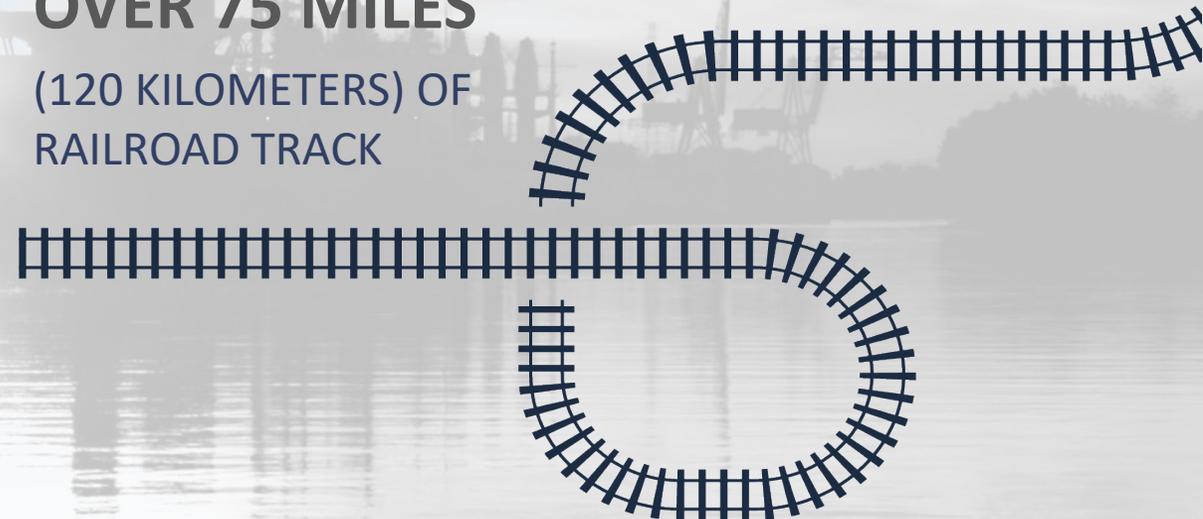
**12,000+  
LINEAR FEET**

**(3,600 METERS) OF DOCK**



## RAILROAD

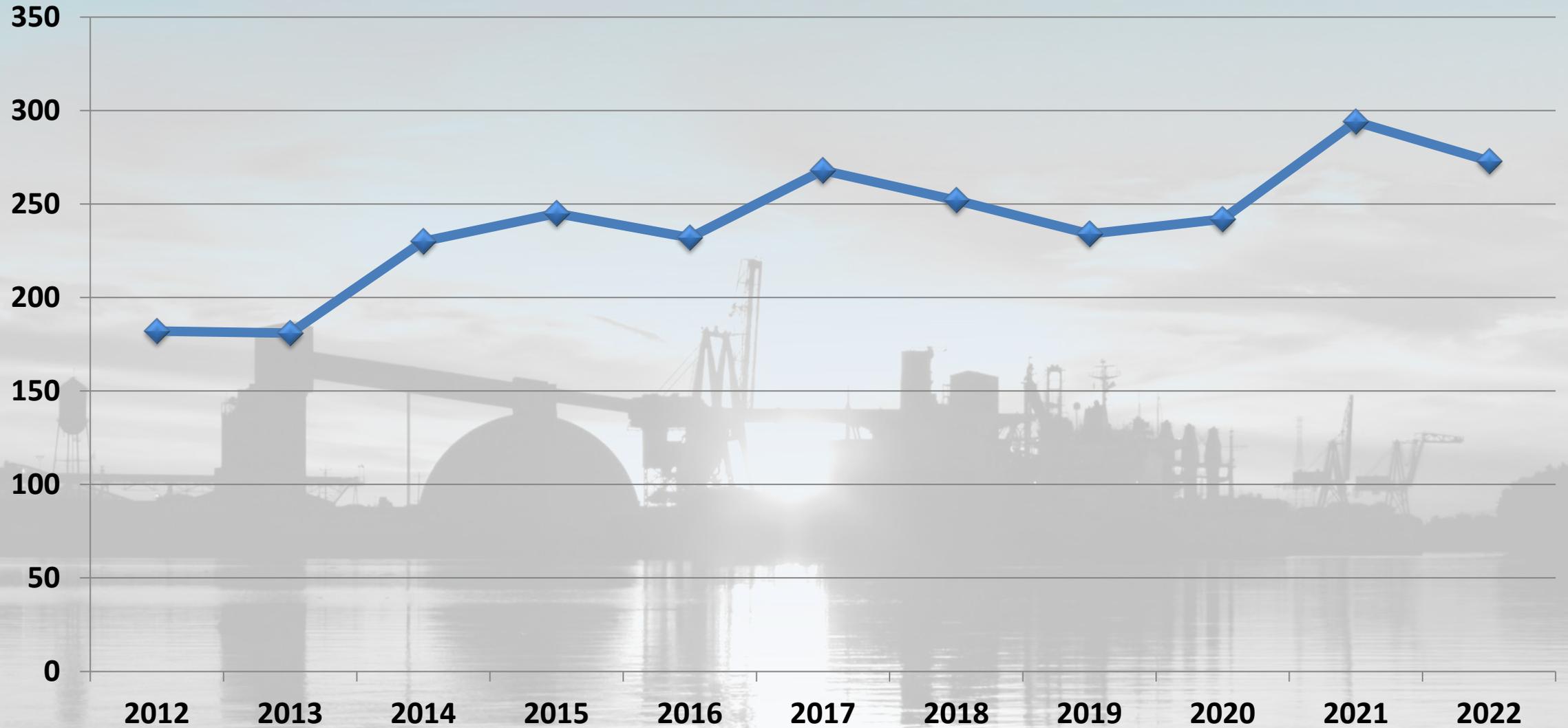
**OVER 75 MILES  
(120 KILOMETERS) OF  
RAILROAD TRACK**



# Ship Calls 2012-2022



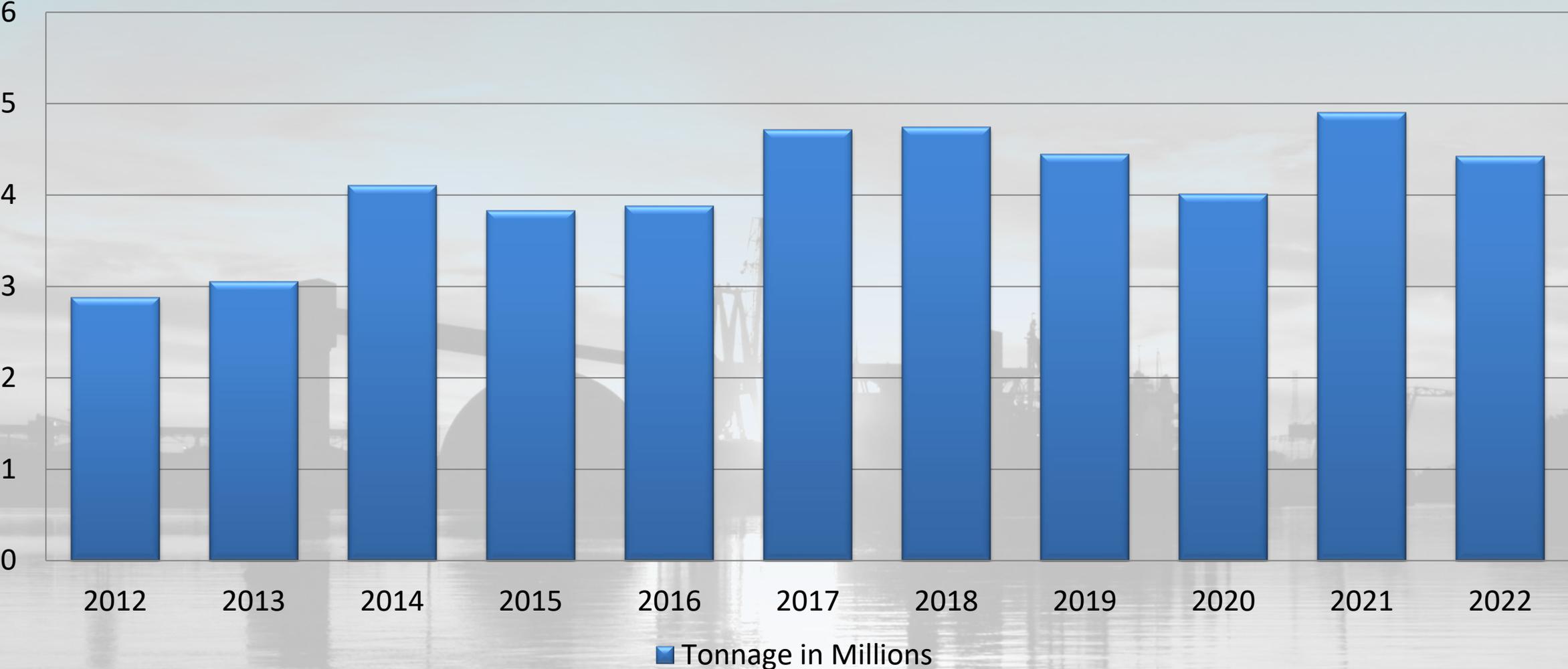
**Port of Stockton**  
CALIFORNIA



# Waterborne Tonnage 2012-2022



**Port of Stockton**  
CALIFORNIA





## TOP 5 SHIPPING IMPORTS – METRIC TONS

**BULK CEMENT**

**1,261,064**

**LIQUID FERTILIZER**

**405,263**

**STEEL**

**267,764**

**FOOD GRADE OILS**

**221,459**

**BAGGED FEED**

**213,578**



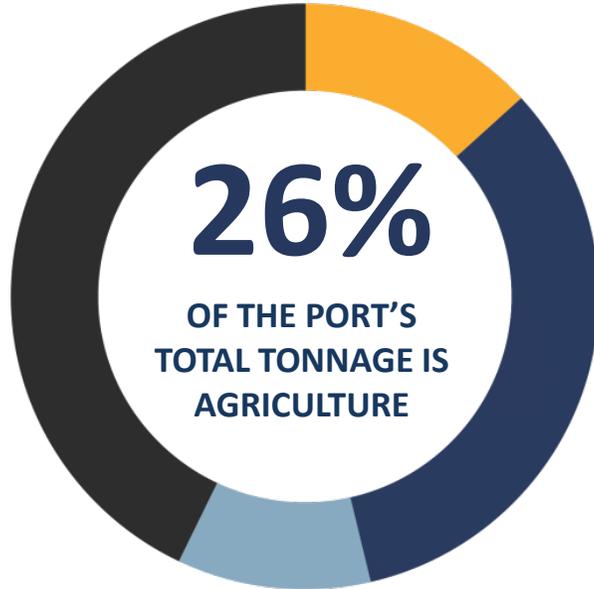
## TOP 5 SHIPPING EXPORTS – METRIC TONS

<b>DRY BULK</b>	<b>393,562</b>
<b>BULK SAND</b>	<b>289,207</b>
<b>BULK SULFUR</b>	<b>133,332</b>
<b>BAGGED RICE</b>	<b>62,710</b>
<b>RENEWABLE FEEDSTOCK</b>	<b>14,524</b>

# 2022 AGRI-BUSINESS | IMPACT ON THE PORT



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**RICE**  
99,676 MT

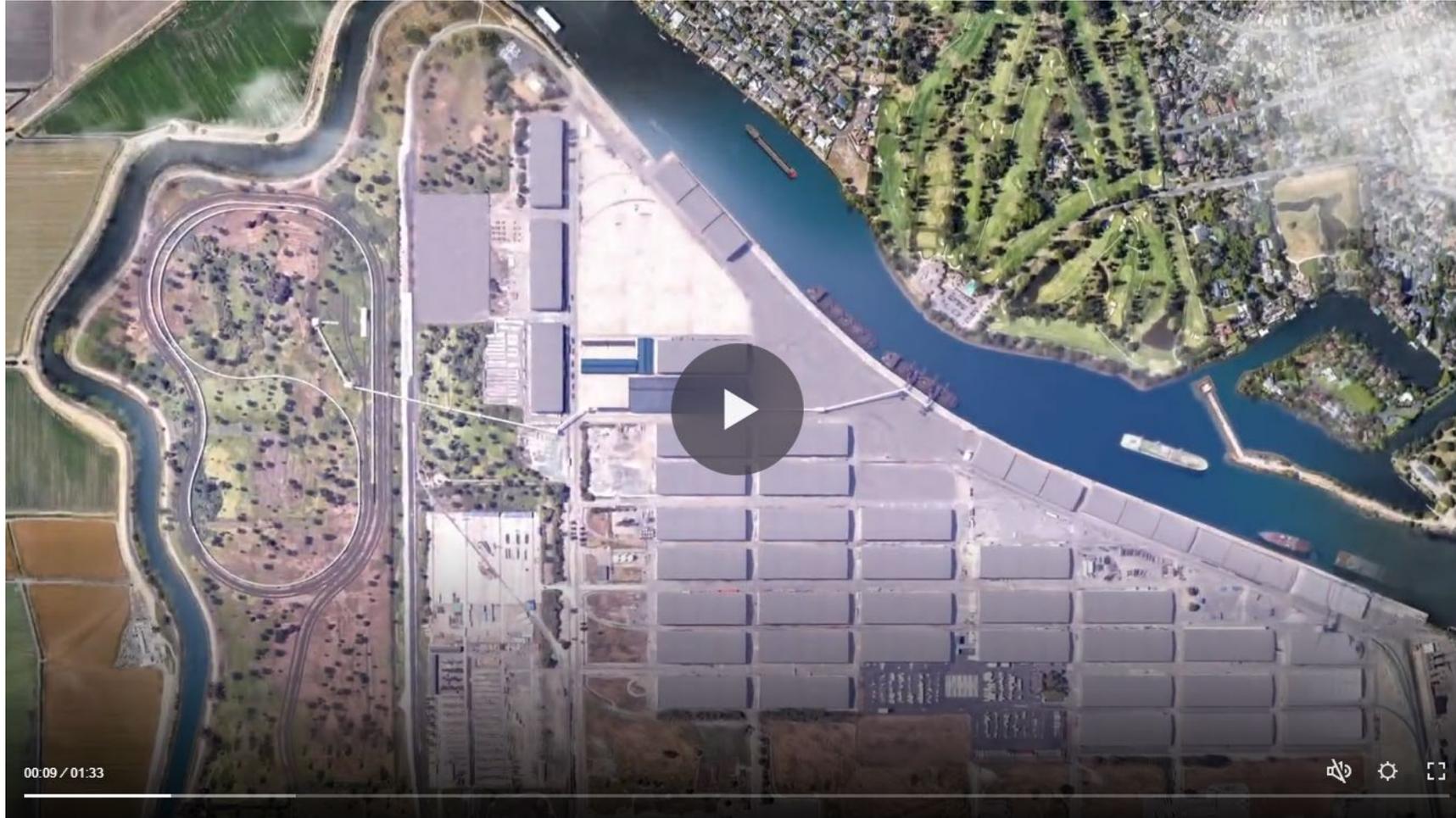
**FERTILIZER**  
692,721 MT

**FEED /  
OTHER AG**  
203,701 MT

**NON-  
AGRICULTURE**  
2,870,617\*

\*excluding Penny Newman

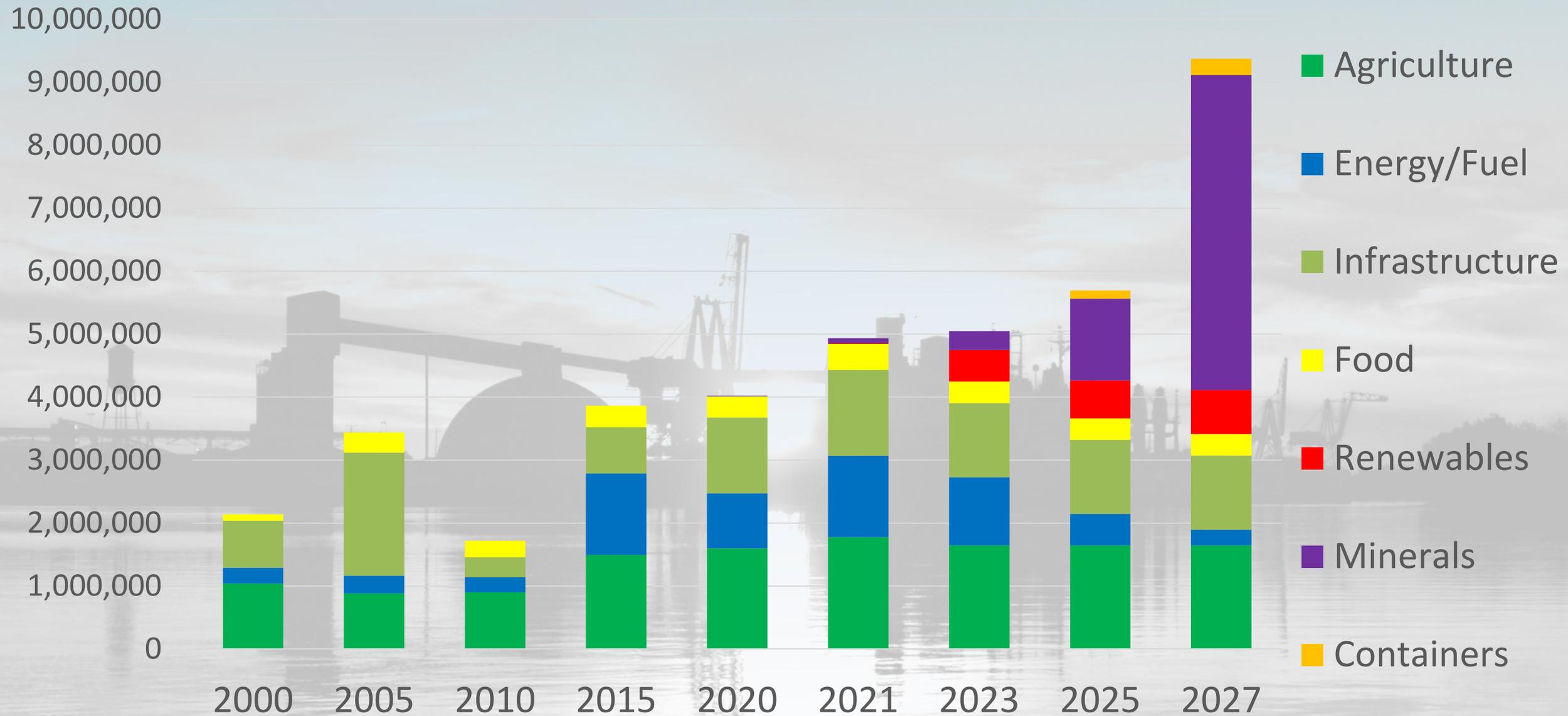




# Projected Tonnage and Commodities



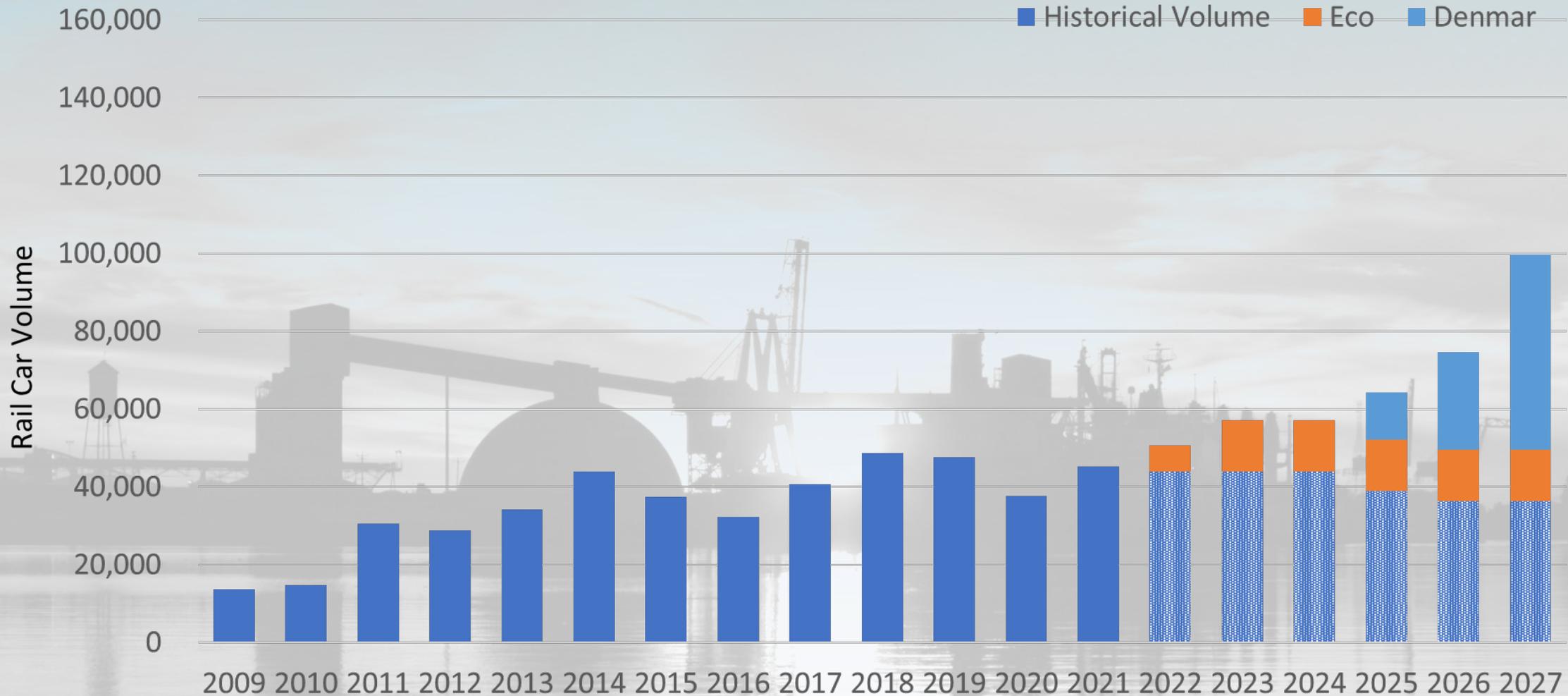
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# Annual Rail Car Volume | Historical and Projected



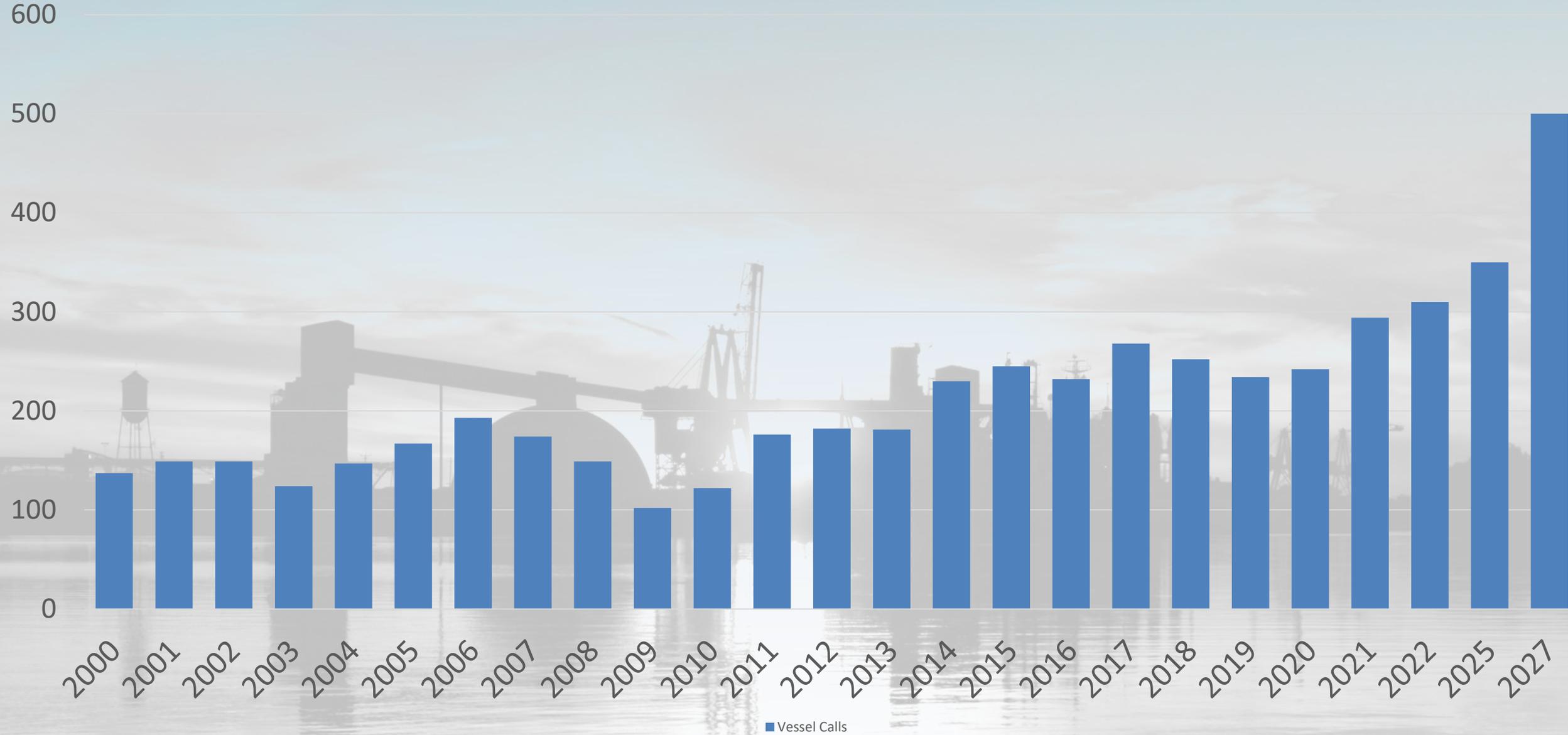
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# 2000-2027 Vessel Calls



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**10,077  
JOBS**

Supported by  
Port activity

**\$77.7  
MILLION**

State and local  
taxes

**\$1.6 BILLION**

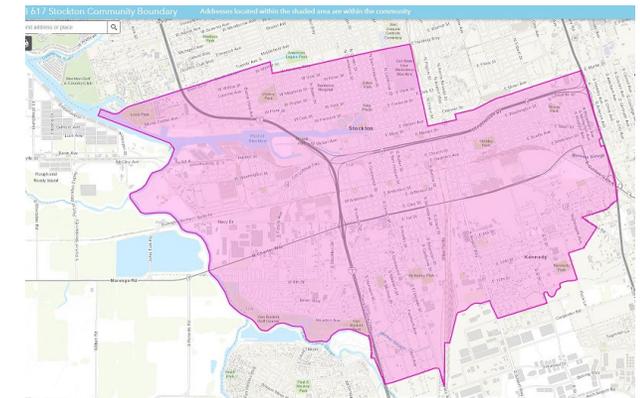
Of total impacts plus  
related impacts supported  
in the region

**\$630.1  
MILLION**

Total personal  
income/ local  
consumption

## Port of Stockton Tenant Jobs Board

- Developed an online platform
- Over 100 businesses operating at the port can post open positions on the Jobs Board
- Community members can apply for local jobs located at the port
- If a tenant hires someone from the AB-617 community, they will receive a \$1,000 rent credit





- Partnerships with local school districts, colleges, and educational organizations
- Working to identify workforce development opportunities for students



# Partnership with Local School



Port of Stockton  
CALIFORNIA



**WASHINGTON ELEMENTARY SCHOOL**  
**BACK TO SCHOOL DRIVE**  
CLOTHING & SUPPLIES

**DROP OFF LOCATION:**  
Port Administration Building Lobby  
2201 W Washington St.  
Stockton, CA 95203

**WHAT THEY NEED:**  
New or gently used clothes of all sizes. Jeans, polo shirts (all colors except red and royal blue)  
Shoes - must be new

**BASIC SCHOOL SUPPLIES:**  
Spiral notebooks, pens, pencils, pencil sharpeners, pencil boxes, scissors, glue sticks, Kleenex

An illustration of school supplies including a pencil case, pens, pencils, and a pair of scissors, next to a circular logo featuring a bulldog's head.

- Back to school drives
- Sponsor 8<sup>th</sup> grade trips/dances
- Class presentations
- Traffic rerouting
- Soccer nets

# Port Outreach Committee Meetings

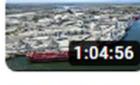


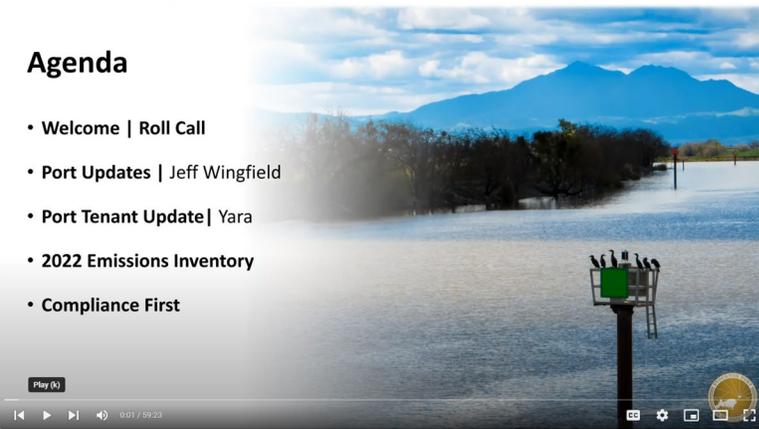
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## Port Outreach Committee Summaries

Port of Stockton - 1 / 16



- 1  Port Outreach Committee Meeting | August 16, 2023  
Port of Stockton
- 2  Port Outreach Committee Meeting June 21, 2023  
Port of Stockton
- 3  Port Outreach Committee Meeting | May 17, 2023  
Port of Stockton
- 4  Port Outreach Committee | April 19, 2023  
Port of Stockton
- 5  Port Outreach Committee Meeting: February 15, 2023  
Port of Stockton
- 6  Port Outreach Committee Meeting January 18, 2023  
Port of Stockton
- 7  Port Outreach Committee Meeting | Clean Air Plan | November 9, 2022  
Port of Stockton
- 8  Port Outreach Committee - August 17, 2022 Meeting  
Port of Stockton
- 9  Port Outreach Committee Meeting - May 18, 2022  
Port of Stockton



### Agenda

- Welcome | Roll Call
- Port Updates | Jeff Wingfield
- Port Tenant Update | Yara
- 2022 Emissions Inventory
- Compliance First

Port Outreach Committee Meeting | August 16, 2023

Port of Stockton  
506 subscribers



- Committee established in 2021 in response to ab-617
- Meetings held monthly
- Attendees: environmental justice groups, port tenants, local residents, regulatory agencies

# Delta Waterway Clean-up Events



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# Green Marine Certification



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## GREEN MARINE LEVELS 1-5



Level 1 is awareness of environmental regulations .  
Level 5 is moving beyond compliance and demonstrating annual im



1  
Aquatic Invasive Species



3  
GHG & Air Pollutants



5  
Spill Prevention & Stormwater Management



3  
Dry Bulk Handling & Storage



4  
Environmental Leadership



2  
Waste Management



3  
Underwater Noise

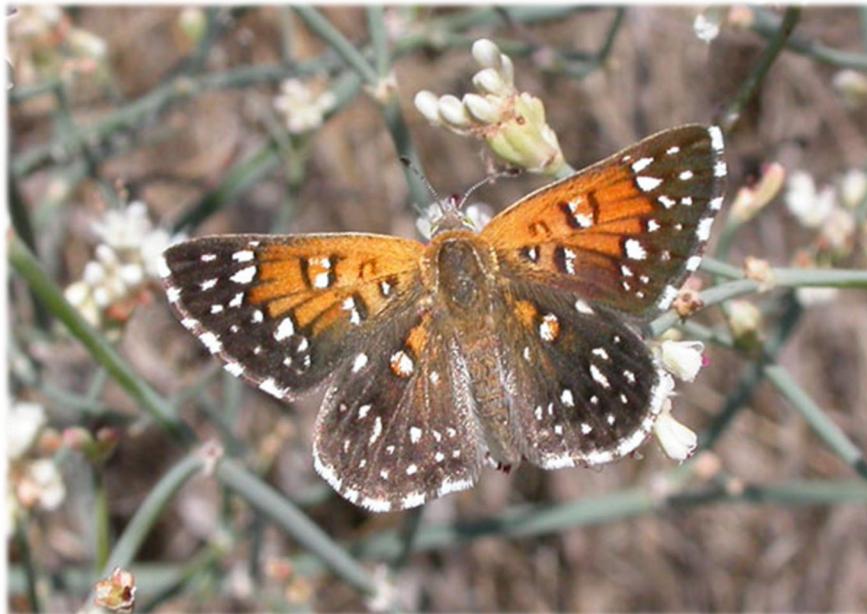


3  
Community Relations

- Leading environmental certification program for maritime industry
- Certified in 2018, 2019, 2020, 2021, 2022, 2023
- Targets key environmental issues related to air, water, soil quality, and community relations
- Tenants have also joined

## Antioch Sand Dunes

- Evening Primrose
- Lange's Metalmark Butterfly





## Fyffe Grade Separation



# Infrastructure Improvements



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## FUTURE PROJECTS



Rail Hardening Project  
\$13M

Rail Bridge & Rail  
Improvements Project  
\$78M

Washington St.  
Widening & Ventura Rd  
Realignment \$17M

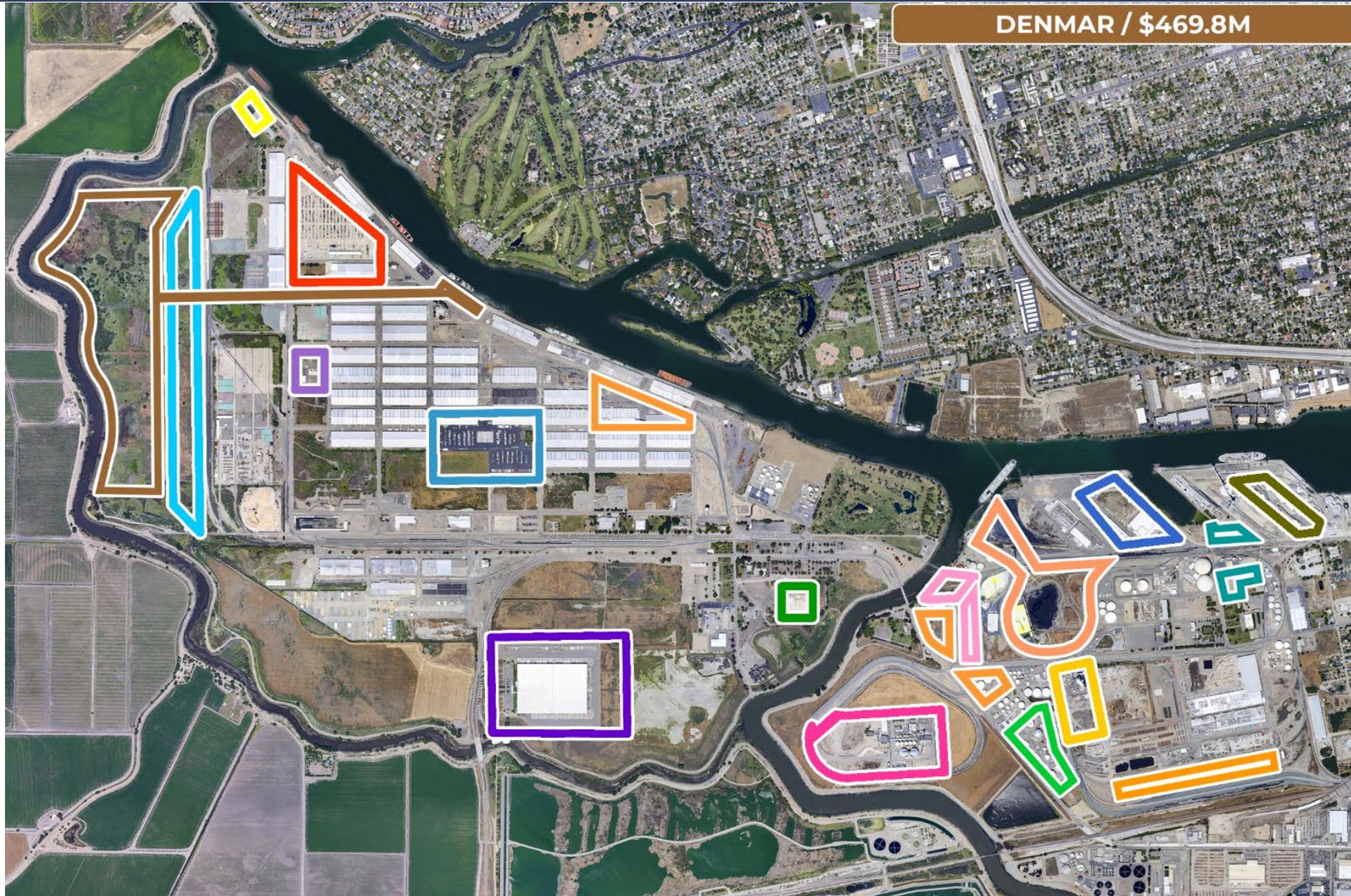
Rail Bridge & Rail  
Improvements Project

# Approved Projects

Value of Projects \$2.43 Billion  
2,318 Jobs



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DENMAR / \$469.8M

NAUTILUS DT / \$133M

FERGUSON PIPE / \$96.4M

UNION PACIFIC / \$77.6M

NUSTAR / \$156M

CANARY RENEWABLES / \$61.2M

LOWE'S HIW / \$72.1M

YARA NORTH AMERICA / \$93.4M

CLEAN PLANET / \$93.4M

FERGUSON DC / \$312.2M

SATCO / \$40.6M

METRO / \$172.8M

CASTLE & COOKE / \$56.8M

WILMAR / \$66M

PELICAN / \$240M

BWC / \$116.6M

DTE / \$199.8M

ECO ENERGY / \$41.6M

# Proposed Projects

Value of Projects \$839 Million  
667 Jobs

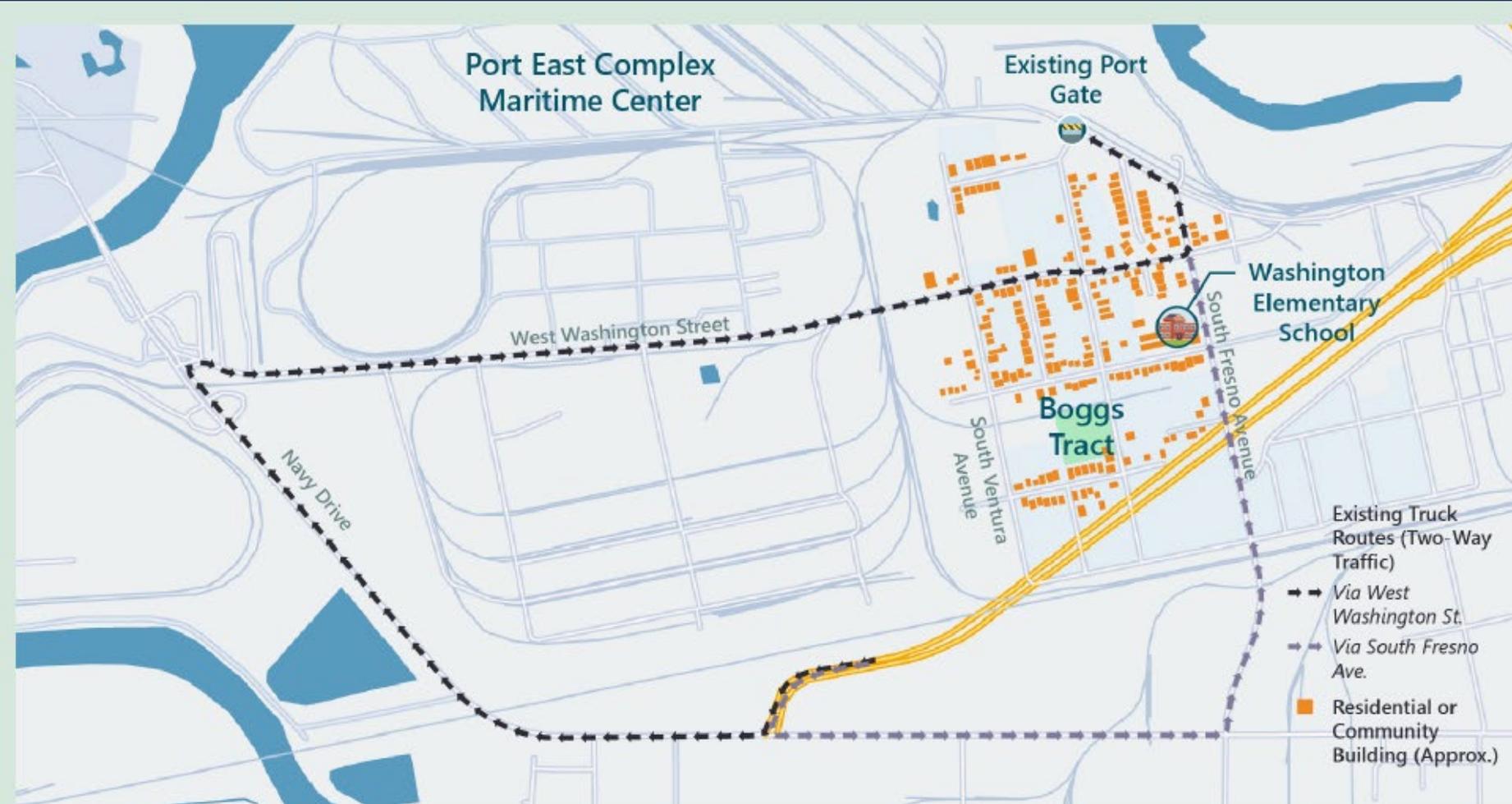


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- ENERGY / \$37.8M
- BULK MATERIALS / \$118.6M
- BULK MATERIALS / \$159.9M
- STORAGE-DISTRIBUTION/ \$412.7M
- WAREHOUSE / BULK MATERIALS / \$30M
- DISTRIBUTION WAREHOUSE / \$60M
- DISTRIBUTION / \$20M

# West Washington Widening and Ventura Access Project

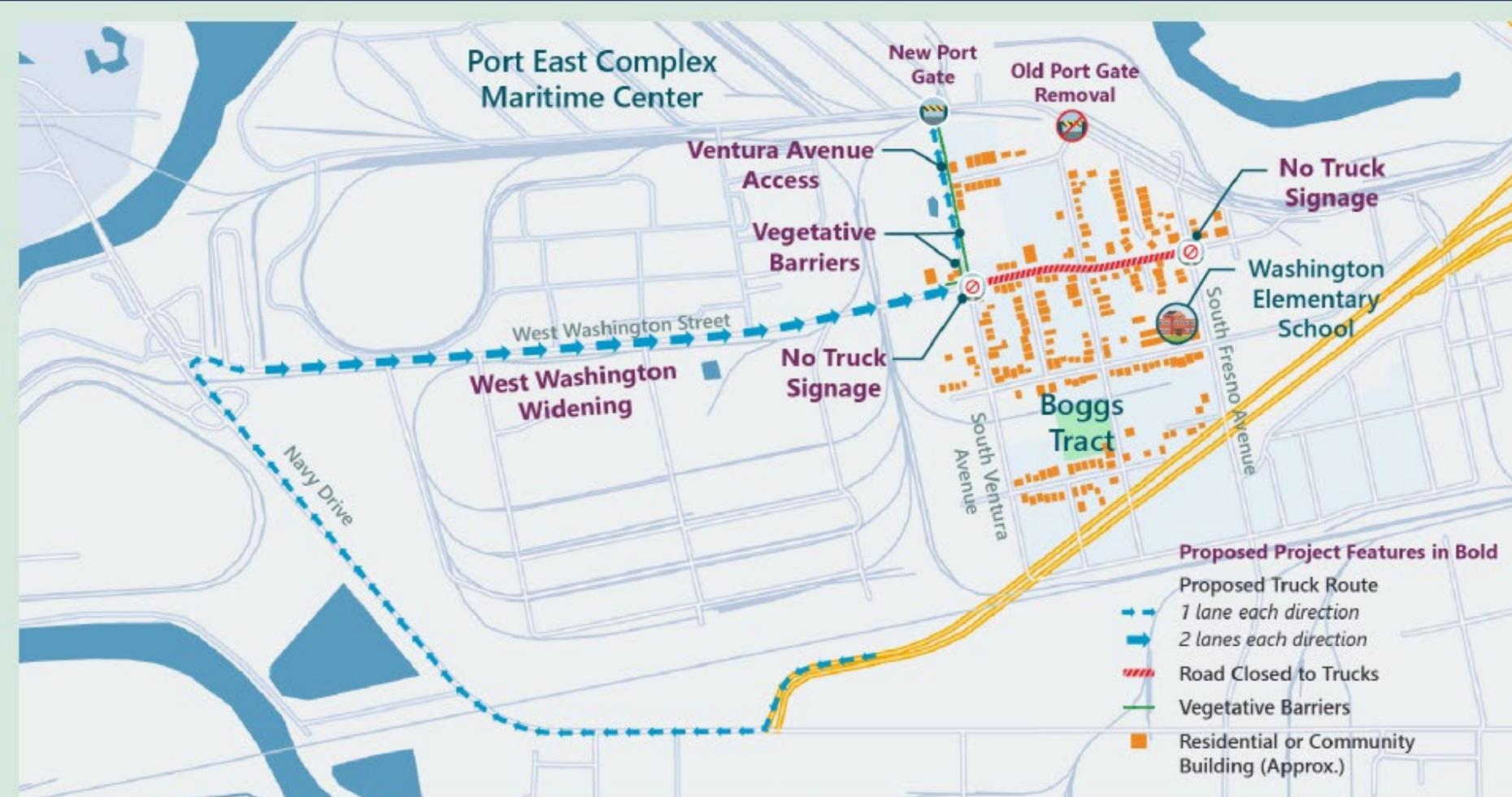


## Existing Route

Figure 2: Existing Truck Routes To/From the Port's East Complex Maritime Center and Residential/Community Features

The West Washington Widening and Ventura Access Project features four key elements for reducing long-standing safety, noise, and air quality concerns for the Boggs Tract and West Washington Elementary community.

# West Washington Widening and Ventura Access Project



## Proposed Route

Figure 3: Proposed Truck Routes To/From the Port's East Complex Maritime Center and Residential/Community Features

The West Washington Widening and Ventura Access Project features four key elements for reducing long-standing safety, noise, and air quality concerns for the Boggs Tract and West Washington Elementary community.

# Zero Emissions Equipment



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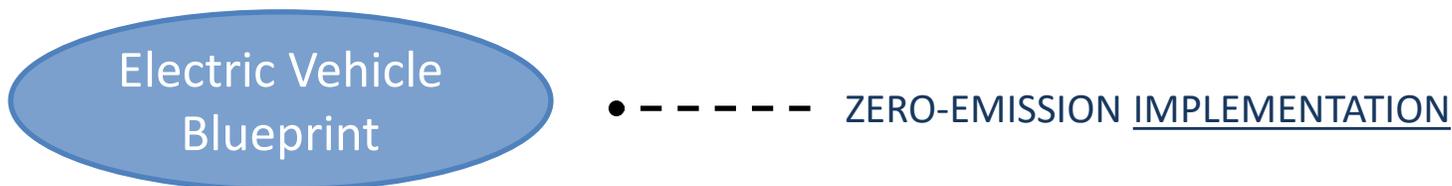
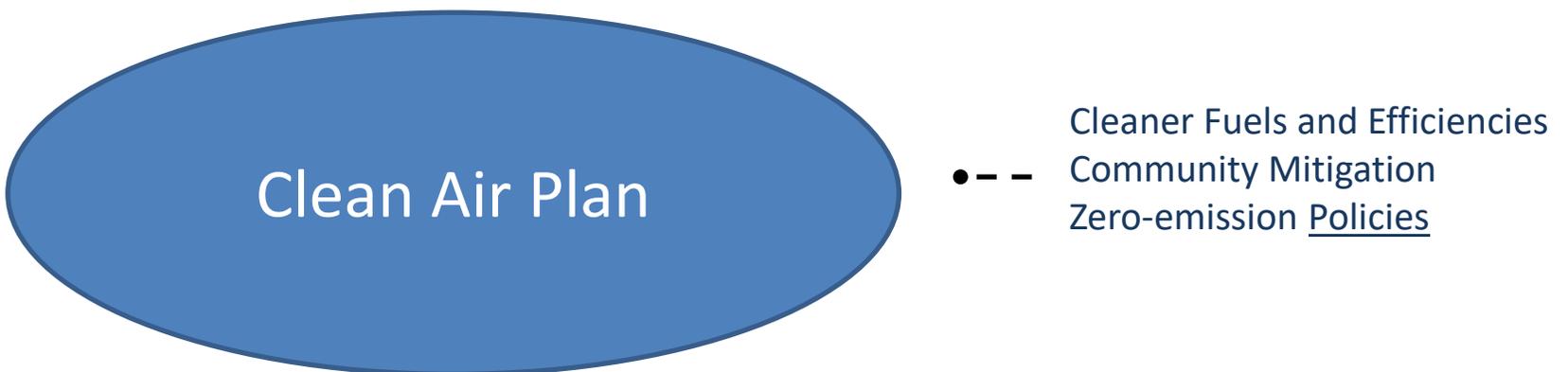
- 60% of port owned cargo handling equipment is zero emissions
- 40% of the cargo handling equipment operating at the port is zero emissions



# Port of Stockton Clean-Air Toolbox



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# How to Use the Tools



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## What are we doing?

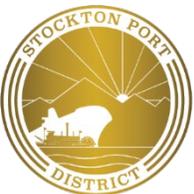
Clean Air Plan

## How do we do it?

EV Blueprint and other implementation  
plans

## How are we doing?

Emissions inventory



# Port of Stockton Clean Air Plan



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CALIFORNIA

PORT OF STOCKTON  
CLEAN AIR PLAN

- Identifies strategies to reduce air pollution, greenhouse gases, and negative public health and community impacts
- Developed through a collaborative effort among community groups, industry, regulatory agencies, and the Port
- Leverages the Port's existing investments in zero-emission technology and community mitigation



**Port of Stockton**  
CALIFORNIA



April 2023

Prepared by:  
 **STARCREST CONSULTING GROUP, LLC**  
ENVIRONMENTAL MANAGEMENT • AIR QUALITY • CLIMATE • SUSTAINABILITY

# Clean Air Plan Objectives



- **Complement** other local, regional, and state air quality initiatives and avoid duplication of effort  
**Accelerate** state and regional air quality regulations whenever possible.
- Reflect the perspectives of all our stakeholders – the maritime industry, community, regulatory agencies, city officials, and others – through **transparent and comprehensive outreach**.
- Prioritize **cost-effective** strategies that minimize negative impacts on the local economy and workforce; if possible, pursue strategies that strengthen the economy and workforce.
- Move as **expeditiously** as possible within the Port’s jurisdictional, legal, and budgetary constraints and provide **accountability** for commitments to improve air quality.
- Whenever possible, prioritize strategies that provide **co-benefits**, such as noise reduction, traffic reduction, water quality benefits, or consistency with industry strategies that align with the Port’s goal; in all cases, ensure that strategies do not worsen impacts in these areas.

# Strategies



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- Heavy-duty trucks
- Cargo-handling equipment
- Harbor craft
- Ships
- Locomotives



# Heavy Duty Trucks



- Truck routing
- Fugitive dust
- Anti-idling measures
- Enhance efficiency
- Grants for zero-emission trucks
- Blueprint to define pathway to zero emissions
- Zero-emission truck transition plans

# Cargo-handling Equipment



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Strategies are designed to expand upon the Port's already significant investments in zero emissions and to accelerate State actions.

- Blueprint to define pathway to zero emissions
- Grants for zero-emission equipment
- Zero-Emission Terminal Transition Plans
- Zero-emission Port equipment
- Zero-emission tenant equipment
- Renewable diesel



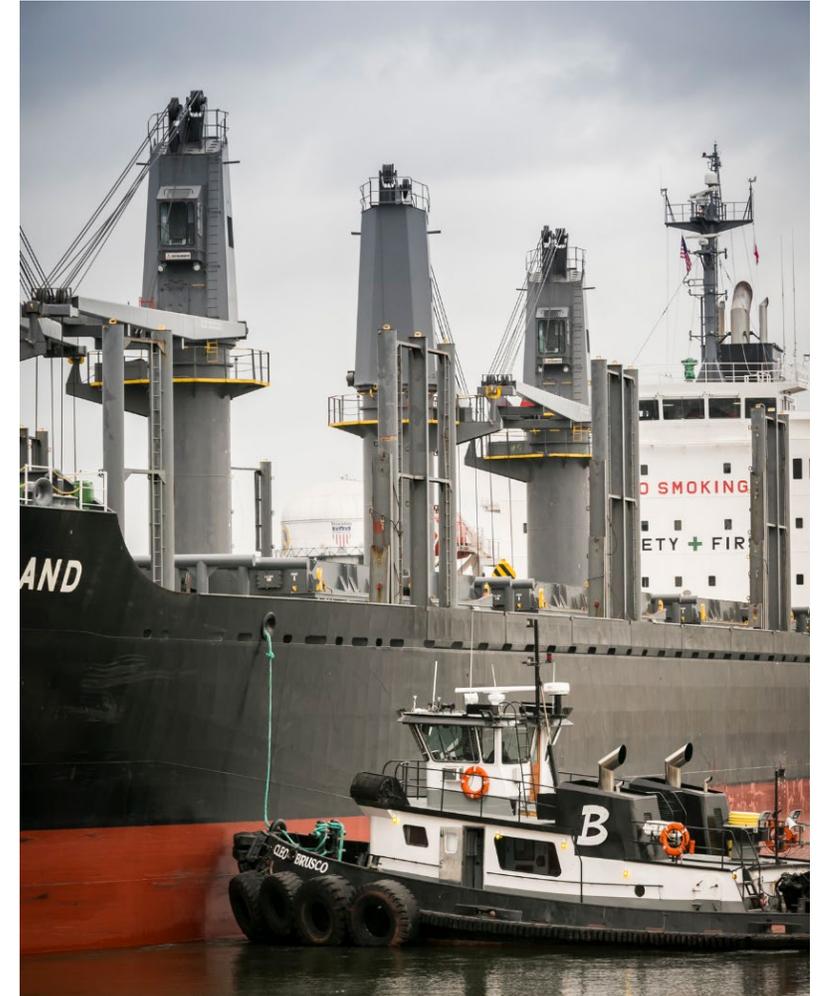
# Harbor Craft



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Strategies are designed to support and accelerate the new State regulation.

- Grant funds for cleaner tugs
- Shore power
- Slow-speed zones
- Phase out older tugs



# Ships



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Strategies are designed to support and accelerate State regulations for at-berth emissions and to encourage cleaner ships to call Stockton.

- At-berth emission control systems
- Incentive program for cleaner ships



# Rail Locomotives



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- **Grants for zero-emission locomotives**

Seek grants to help rail operators transition to the cleanest available locomotives and to demonstrate advanced zero-emission technologies.

- **Cleaner switcher locomotives**

Evaluate the possibility of contractual conditions to require Central California Traction Company, the short-line rail operator, to deploy cleaner locomotives in advance of the State locomotive regulation.



- **Zero-emission Port fleet**

Transition the Port's fleet of on-road vehicles to zero emissions by 2035.

Sub-strategies:

- » Beginning in 2024, all new vehicle purchases will be zero emissions, if feasible.
- » By 2030, the Port's light- and medium-duty fleet vehicles (i.e., cars, SUVs, and some pickup trucks) will transition to zero emissions, if feasible.
- » By 2035, all other vehicles will transition to zero emissions, if feasible.

- **Blueprint to define pathway to zero emissions**

Develop the Port of Stockton Electric Vehicle Blueprint to identify the actions needed to support a zero-emissions on-road fleet transition.



Strategies are designed to mitigate community air-quality impacts as the transition to zero emissions and cleaner equipment occurs.

## **BARRIERS-1: Vegetative screens.**

- Evaluate potential locations for vegetative barriers and work with the community and regional partners to install such barriers, particularly around facilities and along truck routes in close proximity to residents, schools, and other neighborhood uses.

## **TREES-1: Urban forest.**

- Expand the Port's urban greening program through more tree plantings, particularly in parts of the community that are highly impacted by trucks and Port-related uses.



# Next Steps



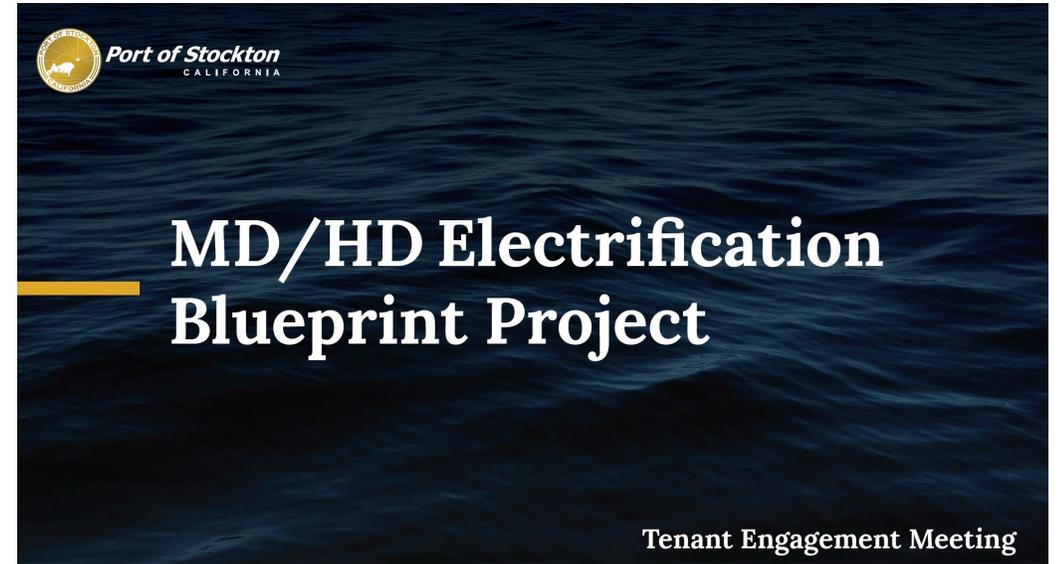
- Begin to implement the CAP strategies.
- Continue to work with our stakeholders to prioritize implementation actions and to develop new programs and policies, as needed
  - Many strategies require additional stakeholder outreach and research
- Track progress through the emissions inventory and performance milestones
- Continue to communicate with community groups, residents, regulatory agencies, tenants, and industry partners

# Electrification Blueprint



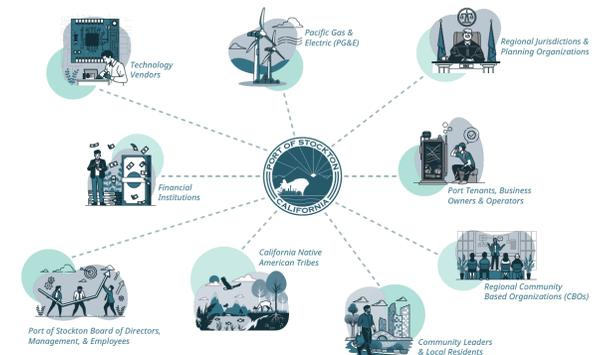
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- The Port of Stockton MD/HD Electrification Blueprint Project allows insights into the planning, design, construction, and operation of MD/HD ZEV charging and refueling infrastructure.
- Leverages the Port's knowledge gained through its ongoing Zero Emission Vehicle (ZEV) deployments and demonstrations.
- Develops an actionable and replicable series of steps that should be undertaken by a small port or public utility to support public and private adoption of MD/HD ZEVs.
- Supports future development of microgrids, industrial hydrogen utilization, electrification of industrial processes, and combined heat and power systems at the Port



## Stakeholder Groups

- 1 Port Commission Leadership and Employees
- 2 Port Tenants, Business Owners & Operators
- 3 Regional and Community Based Organizations (CBOs)
- 4 Community Leaders & Local Residents
- 5 California Native American Tribes
- 6 Regional Jurisdictions & Planning Organizations
- 7 Pacific Gas & Electric (PG&E)
- 8 Technology Vendors
- 9 Financial Institutions



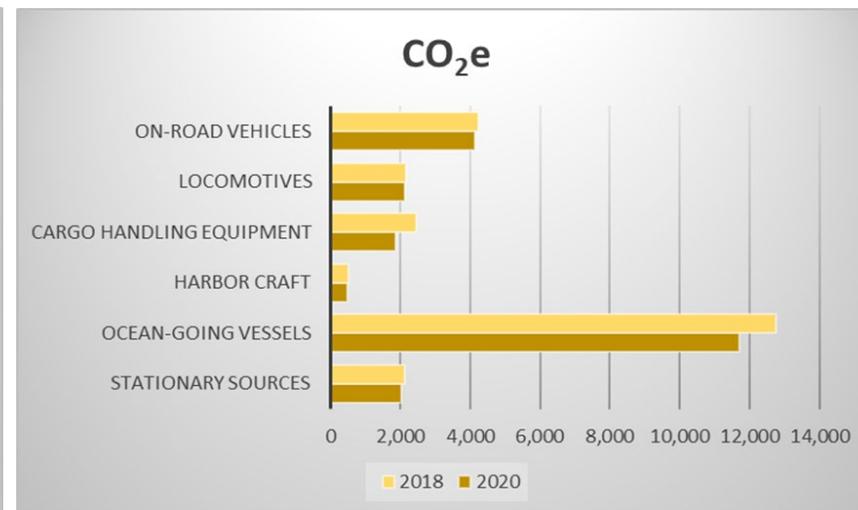
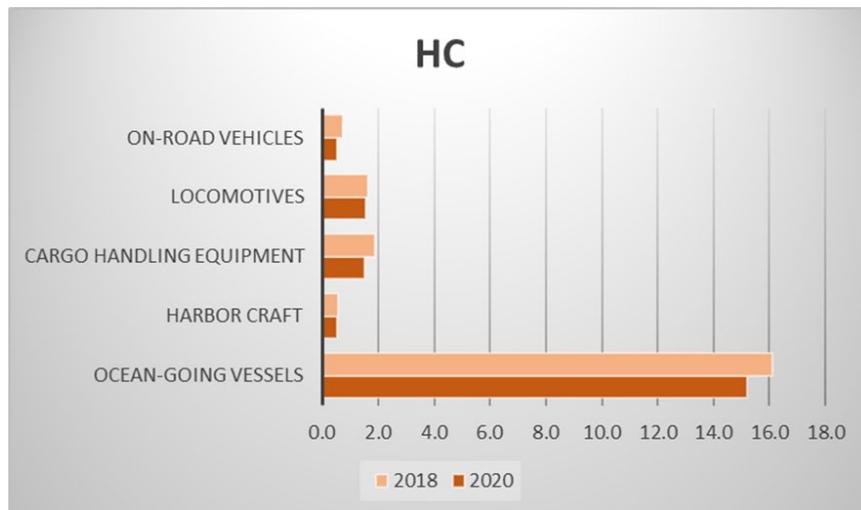
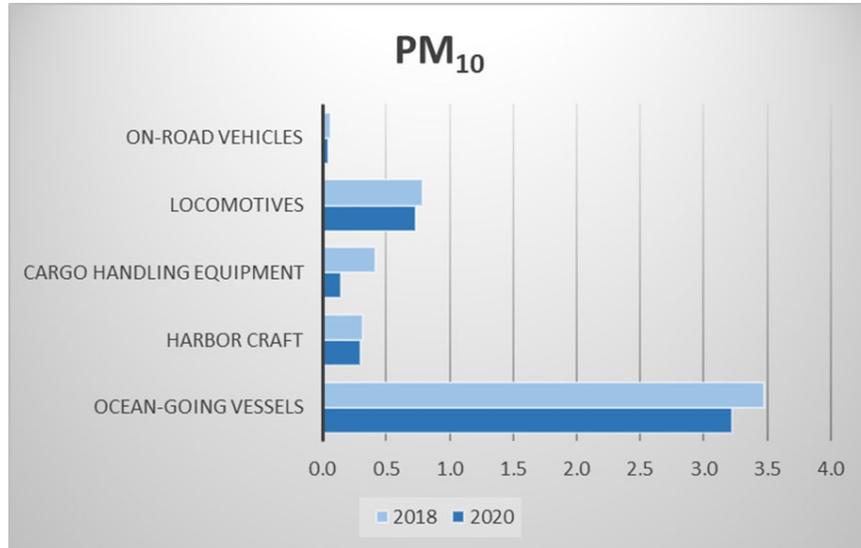
# Electrification Blueprint Findings



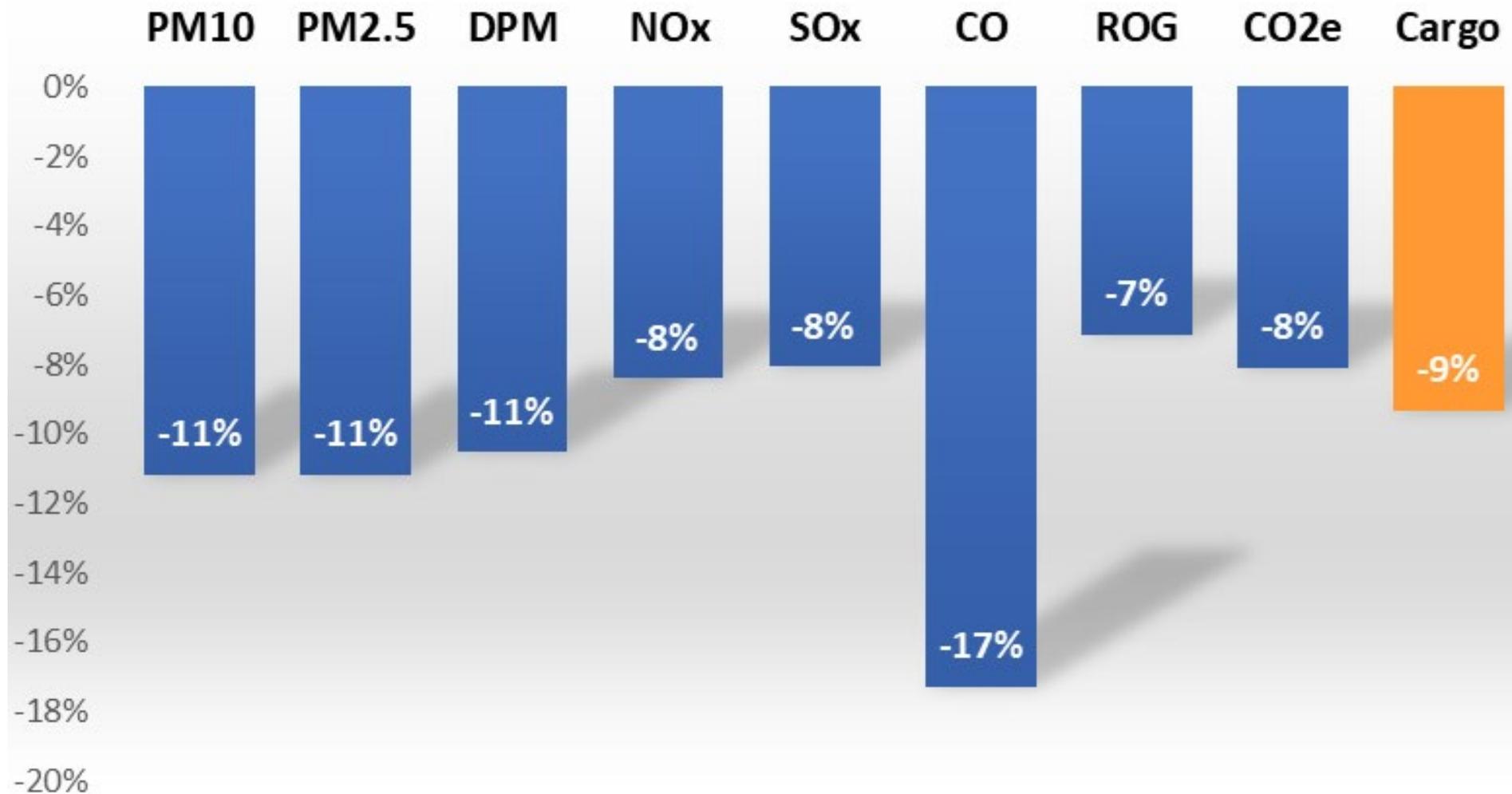
- The Port has roughly 85 light, medium, and heavy-duty vehicles in its fleet, and the duty cycles are well suited for zero emissions. There are 105 pieces of terminal equipment, primarily forklifts, operated by the Port and two major tenants.
- Zero Emission Vehicle (ZEV) Preliminary Design Layout found that there is a need for 230 new charging units.
- Cost Estimate: Procuring the zero-emission equipment and vehicles and installing the charging infrastructure is estimated to cost \$37 million to \$40.6 million.



# 2018 and 2020 Emissions (tons or tonnes/yr)



# Emission Changes from 2018 to 2020





**An Integral Part of California's Economic Future**