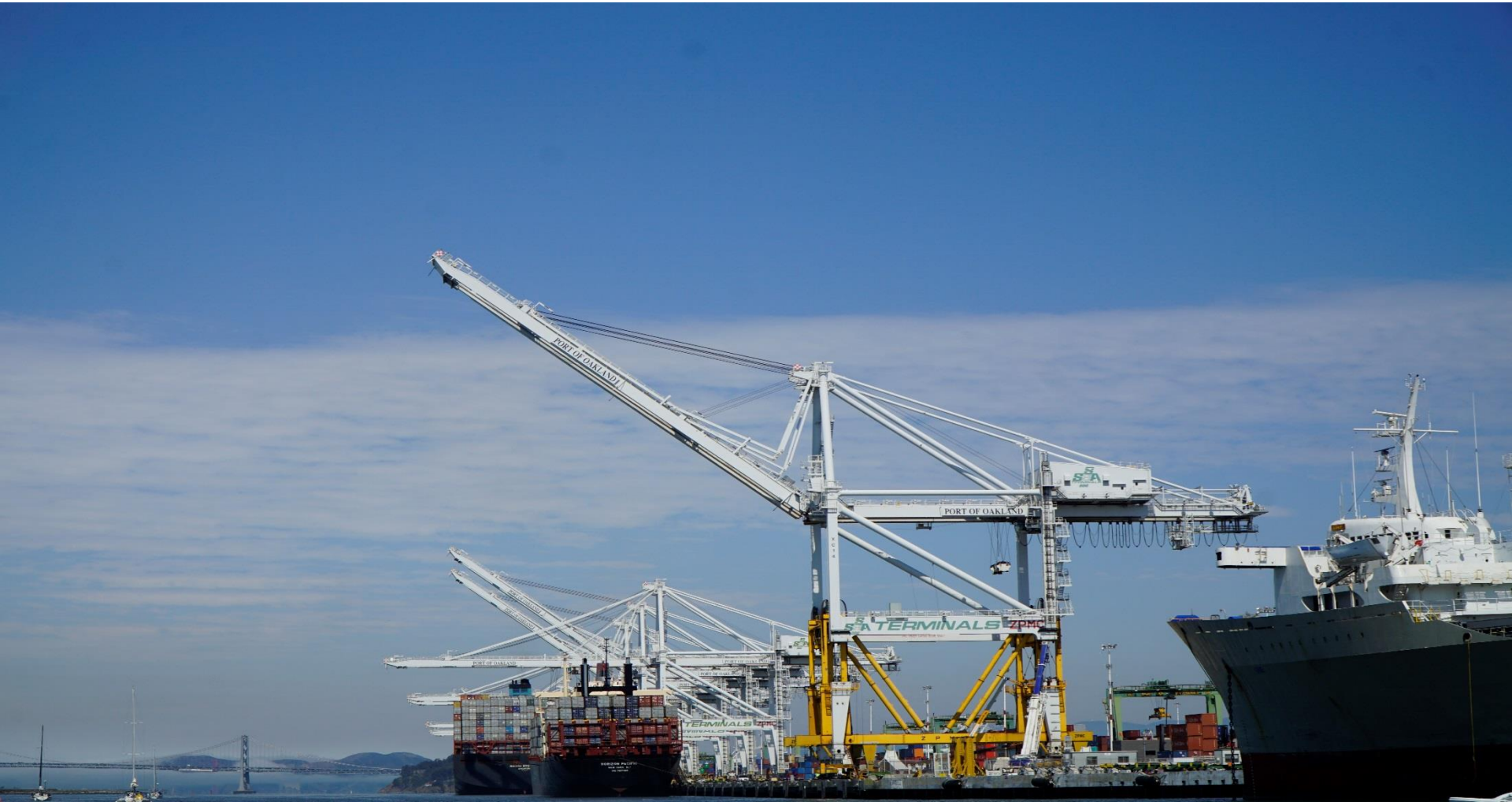**PORT OF OAKLAND**
SEAPORT

AAPA Marine Terminal Management Training
October 1-5, 2018
Eric Napralla – Port of Oakland

Port of Oakland by the Numbers

- **4 marine terminals** in operation

- **3 terminal operators** – SSA, Everport & TraPac

- **33 Cranes** of which 23 are Port-owned

- **2.42 million TEU** handled in 2017

- **20 ocean carriers** with service to/from Oakland

- **1,600 vessel calls** in 2017

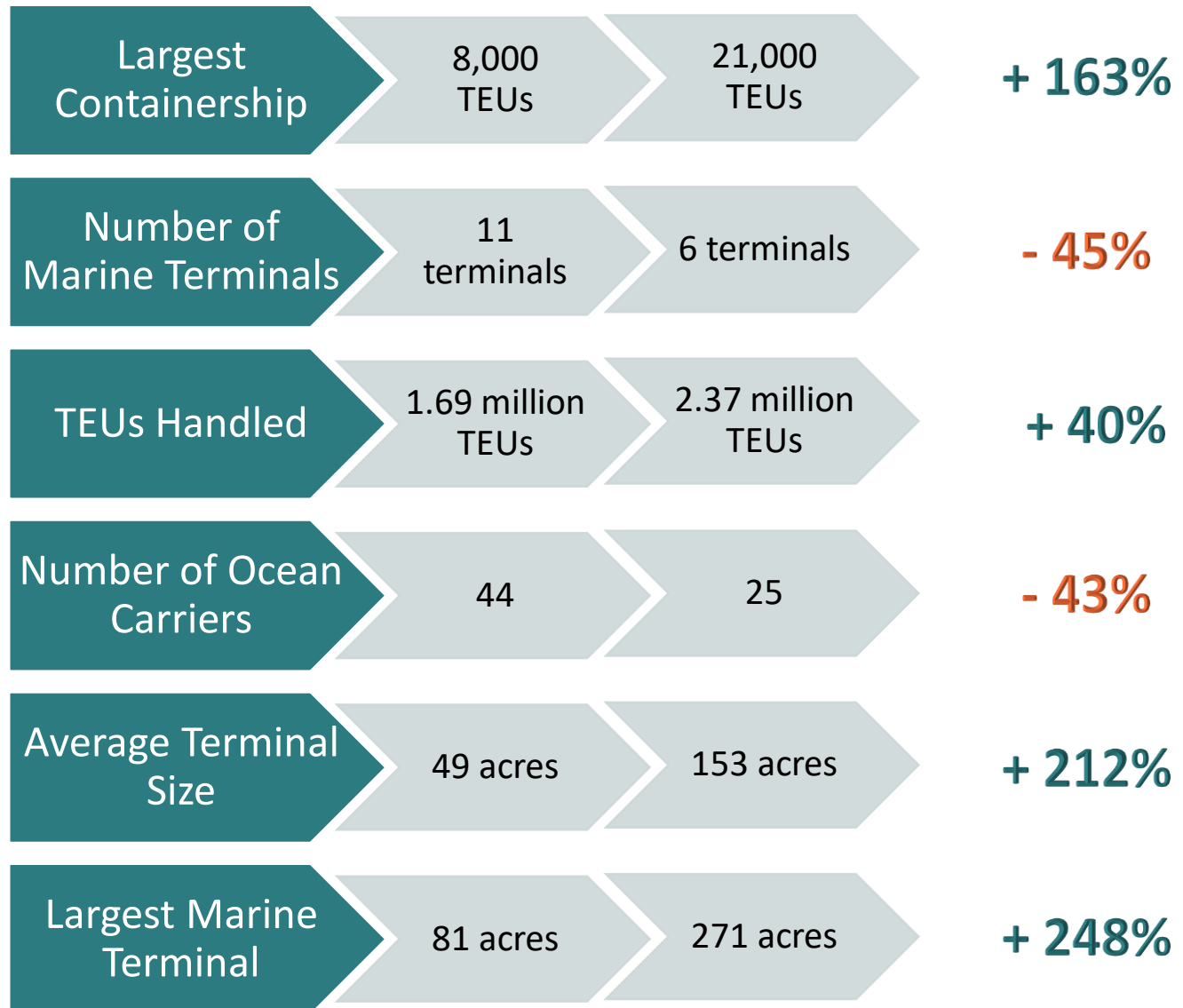- **2nd busiest** container terminal in the United States, in number of daily gate moves
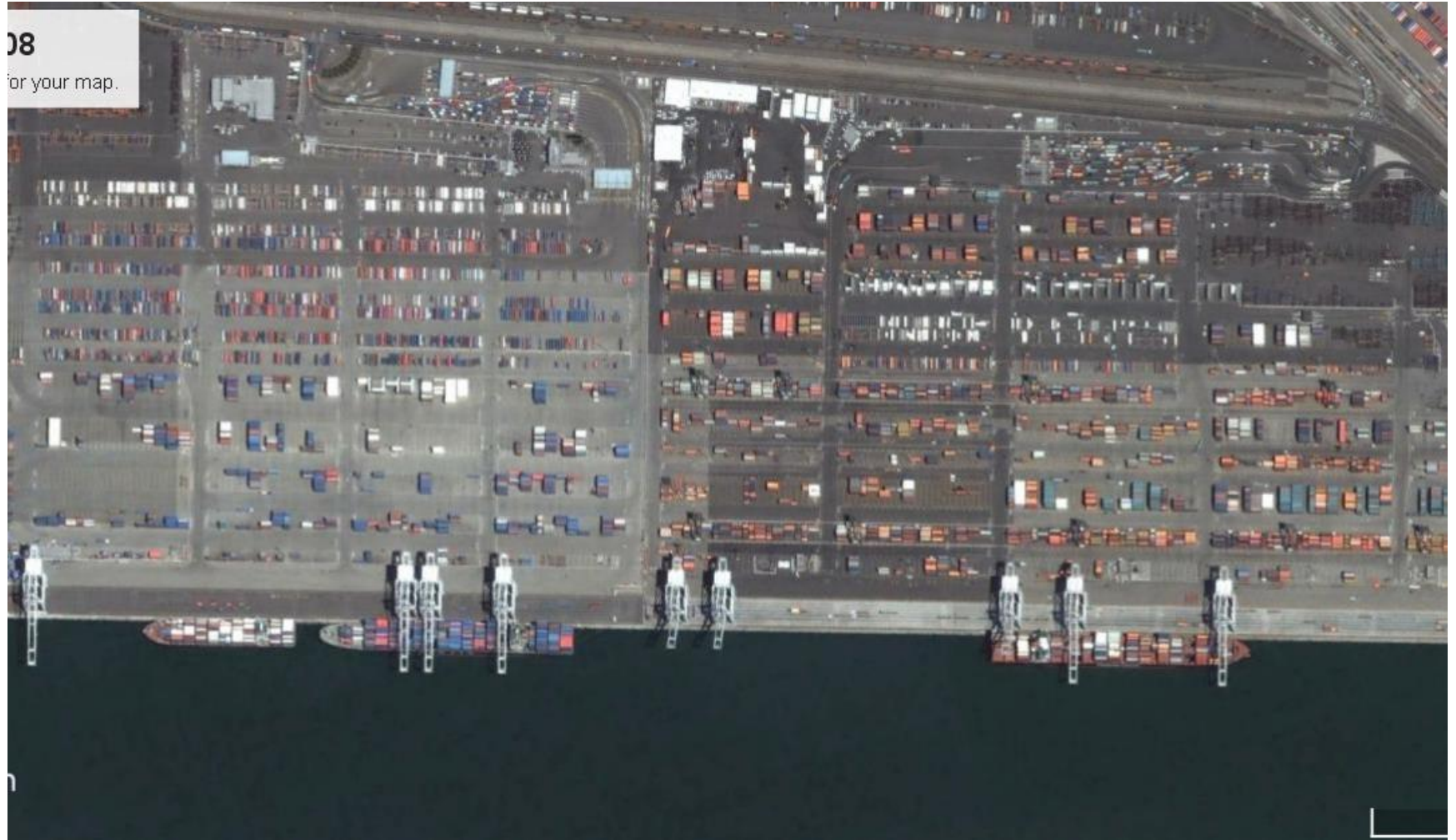
PORT OF OAKLAND
SEAPORT

Mega-Ship Era

	1999	**2017**	
Largest Containership	8,000 TEUs	21,000 TEUs	**+ 163%**
Number of Marine Terminals	11 terminals	6 terminals	**- 45%**
TEUs Handled	1.69 million TEUs	2.37 million TEUs	**+ 40%**
Number of Ocean Carriers	44	25	**- 43%**
Average Terminal Size	49 acres	153 acres	**+ 212%**
Largest Marine Terminal	81 acres	271 acres	**+ 248%**

Marine Terminal Consolidation

January 2008

October 2017 – Densified

Operational Impacts

Port Efficiency Task Force

- Port convened multi-stakeholder work group in 2015 to develop/implement operations and technology-based efficiency measures:
  - Extended Marine Terminal Truck Gate Hours
  - Appointment Systems
  - Chassis
  - Truck Wait/Turn Time Metrics
  - ILWU Workforce Growth
  - Central Valley Depot
  - Oakland Community Portal
  - Freight Intelligent Transportation Systems (FITS) Initiative

PORT OF OAKLAND
SEAPORT

Oakland Community Portal

- All Port of Oakland marine terminals use various features of eModal for their customer interface.

- Current features include:
    - Terminal information
    - Appointments and Pre-Advise
    - Online fee collection from shippers/truckers
    - Container status and availability information
    - Vessel schedules
    - Drayage truck registry and RFID tag management
    - Mobile application
    - Trucker and shipper communications via broadcast message function

PORT OF OAKLAND
SEAPORT

Oakland Community Portal

- Port working with Advent to **create one system of record for the Port of Oakland**:

    - Expand eModal utility for utilization by <u>ALL</u> supply chain stakeholders

    - Ensure data consistency, accuracy for OAK MTO's

    - Launch new Oakland-specific URL/website

    - Digitize and streamline landside operations

    - Transparency will drive ops efficiency and cargo velocity

Oakland Community Portal

- **Phase 1 – Q1 2018**

  - Port level information, latest updates, maps
  - Marine terminal pages, with location, hours, maps
  - CCTV feeds from Port and terminals
  - Vessels in port by facility
  - Empty container return information by facility/line
  - No password required

Oakland Community Portal

- **Phase 2 – Q3/4 2018**

  - New Design Framework
    - Multi-platform w/ eModal user validation
    - Mobile friendly
  - Integrated container watchlist (now, for shippers too)
  - Dashboards
    - KPIs unique to shippers and truckers
  - Post login landing page

Oakland Community Portal

- **Phase 3 – Q4 2018**

  - Truck turn times
    - Integrate RFID tag reads collected by Port at entry/exit gates
    - Add new dashboard to showing average turn time by facility
    - 15 minute update interval
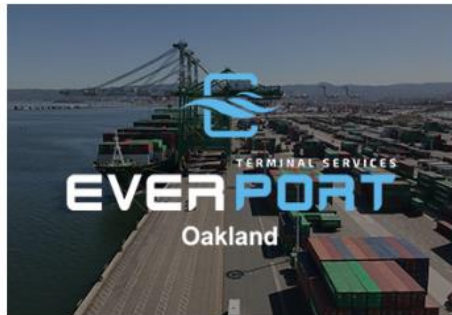
OAKLAND PORTAL
Powered by eModal

PORT NEWS

PORT OF OAKLAND BOSS AFFIRMS SUPPORT FOR BUSINESS WITH JAPAN

Oakland, Calif. – July 6, 2018: Port of Oakland Executive Director Chris Lytle this week called for strengthening business ties with Japan. Addressing visitors from the Japanese Port of Hakata, Oakland's...

SSA Marine
A Carrix Enterprise
Oakland International Container Terminal

EVERPORT
TERMINAL SERVICES
Oakland

TraPac

Matson

ne: (510) 238-4400 **Phone:** (385) 777-5522 **Phone:** (877) 387-2722 **Phone:** (800) 462-8766

to search

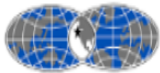A Carrix Enterprise   TERMINAL SERVICES   eModal

Oakland Community Portal

- **Dashboard Concept**

  - User can customize – unique to shipper and trucker watchlists to start
    - Containers on terminal by status
    - Containers on terminal by equipment type
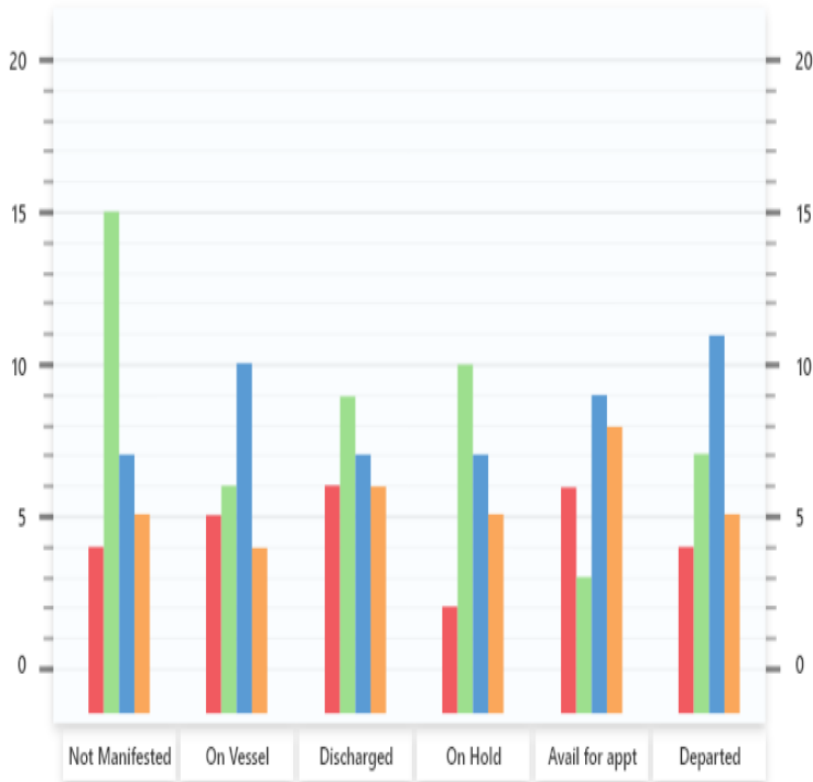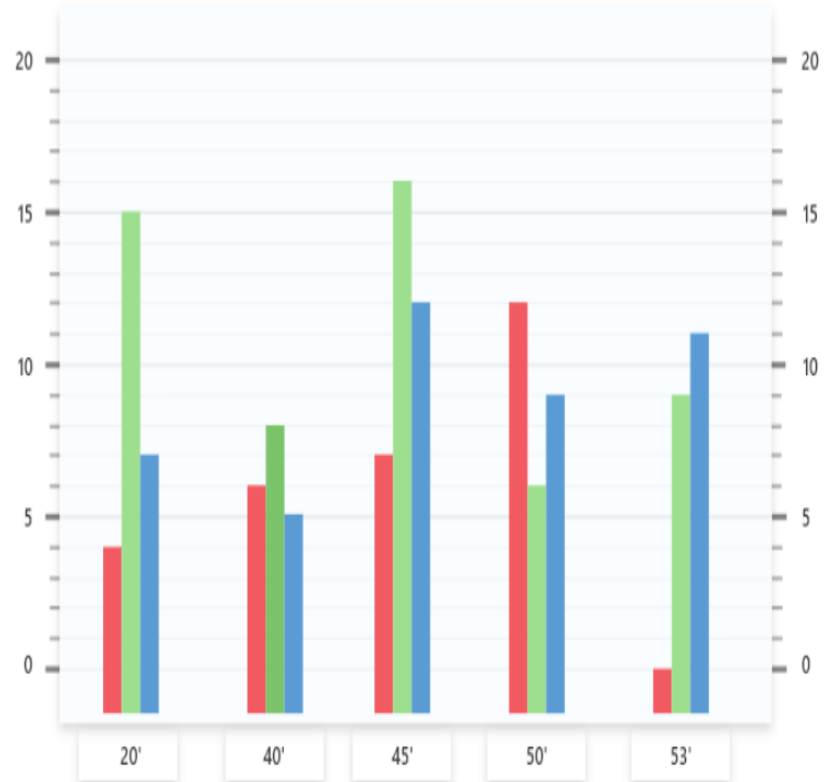   - By motor carrier
    - Vessels in Port

Containers On Terminals By Status

Total Containers 156

SSA	EVERPORT	TRAPAC	MATSON
27	50	51	28

Not Manifested · On Vessel · Discharged · On Hold · Avail for appt · Departed

Vessel Work Summary

Total Containers 171

On Vessel	Awaiting Clearance	Available For Appointment
29	83	59

20'   40'   45'   50'   53'

On Vessel   Awaiting Clearance   Available For

12/24 – PORTAL LOGGED IN.png

Work Summary By Carrier

Total Containers **276**

On Vessel	Available	Awaiting Clearance	Booked	Available for Appt
29	83	59	39	66

Vessel Forecast

Total Containers **257**

SSA T18	APL	APMT Pier 400	CUT	LBCT Pier F	TRAPAC
28	69	32	29	44	55
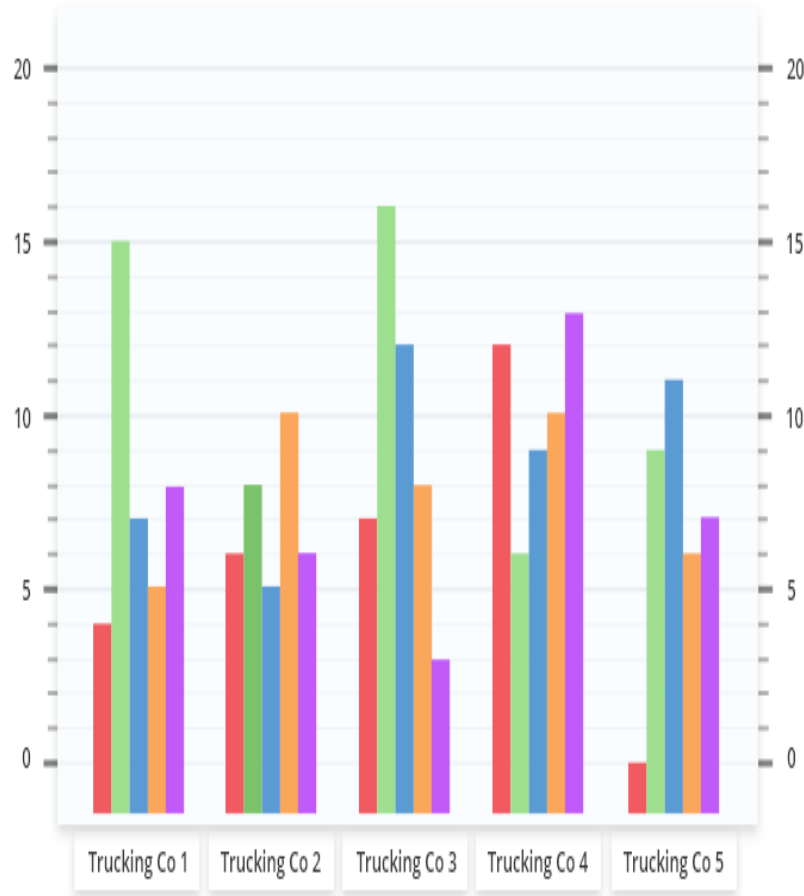
Work Summary By Carrier — bar chart with categories: Trucking Co 1, Trucking Co 2, Trucking Co 3, Trucking Co 4, Trucking Co 5. Legend: On Vessel, Available, Awaiting Clearance, Booked, Available for Appt.
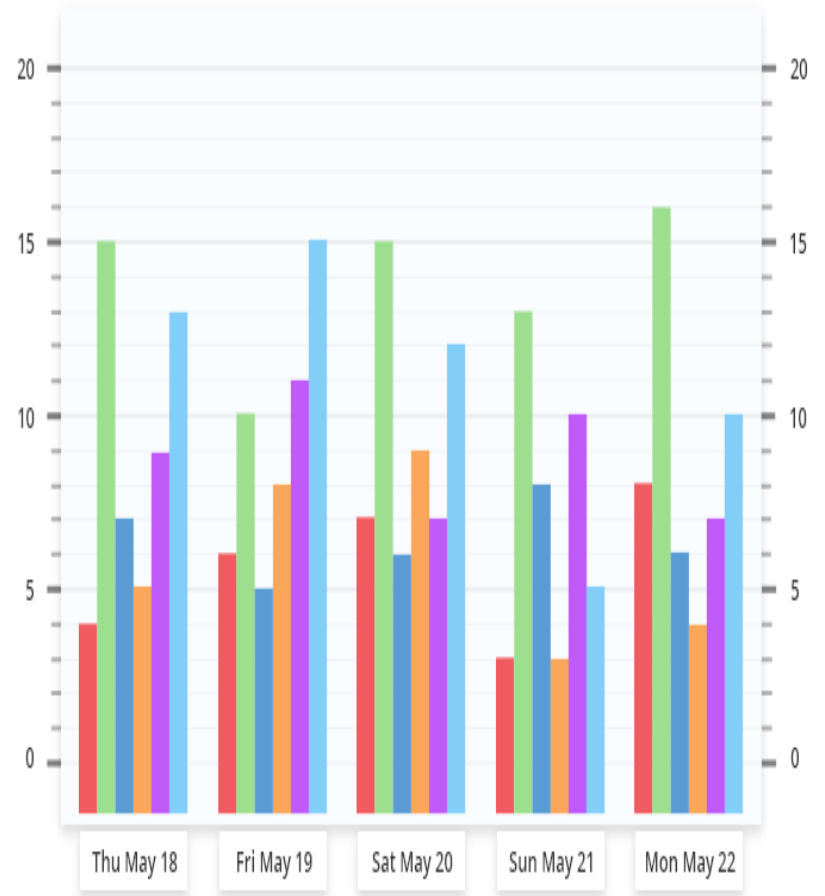
Vessel Forecast — bar chart with categories: Thu May 18, Fri May 19, Sat May 20, Sun May 21, Mon May 22. Legend: SSA T18, APL, APMT Pier 400, CUT, LBCT Pier F, TRAPAC.

Freight Intelligent Transportation Systems (FITS) Initiative

- **Make streets that support Port "smart"**
- **Collect, analyze, disseminate traffic information to increase efficiency**
- **Integrate local, regional, state traffic information**

- Project Sponsor

- Project Partners

FITS Project List

- Communications (Fiber)
- CCTV Upgrade to HD
- RFID Readers
- Joint TMS/EOC
- Changeable Message Sign Boards
- Truck Queue Detection
- Traffic Signal Upgrades
- Basic GoPort Web/Mobile Application

PORT OF OAKLAND
SEAPORT

FITS Project List

- Communications (Wi-Fi)
- Supplemental Vehicle Detection (speed)
- C2C Communications
- Advanced Train Detection System
- Weigh-In-Motion Technology
- Basic Smart Parking

PORT OF OAKLAND
SEAPORT

FITS Implementation

- **Current Schedule**
  - 35% Design - Q2 2018
  - 100% Design – Q1/2 2019
  - Start Construction – Q4 2019

- **Current Finance Plan**
  - <u>Design</u>
    - Measure BB (County)
  - <u>Construction</u>
    - Advanced Transportation & Congestion Management Technologies Deployment (Federal)
    - Port Security (Federal)
    - Trade Corridor Enhancement Program (State)
    - Measure BB (County)

PORT OF OAKLAND
SEAPORT

Closing Thoughts

- No shortage of data in/around supply chain

- Stakeholders are demanding data transparency (access to advance, additional/organized information, KPIs, camera feeds, traffic information, etc.) to more effectively manage their business

- Data needs to be shared responsibly

- All stakeholders will need to participate!!!!!!

Contact Information

Eric Napralla

Port of Oakland

Chief Wharfinger

510.627.1403

enapralla@portoakland.com

www.portofoakland.emodal.com

PORT OF OAKLAND
SEAPORT

Your Port. Your Partner.