



# Port Performance Data and Analytics

**Marine Board Spring Meeting**

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U.S. Department of Transportation  
Office of the Secretary of Transportation

**Bureau of Transportation Statistics**

## PORT PERFORMANCE FREIGHT STATISTICS

Annual Report

Disclaimer:

The views expressed are those of the author(s) and not necessarily those of the U.S. Bureau of Transportation Statistics or the U.S. Department of Transportation.

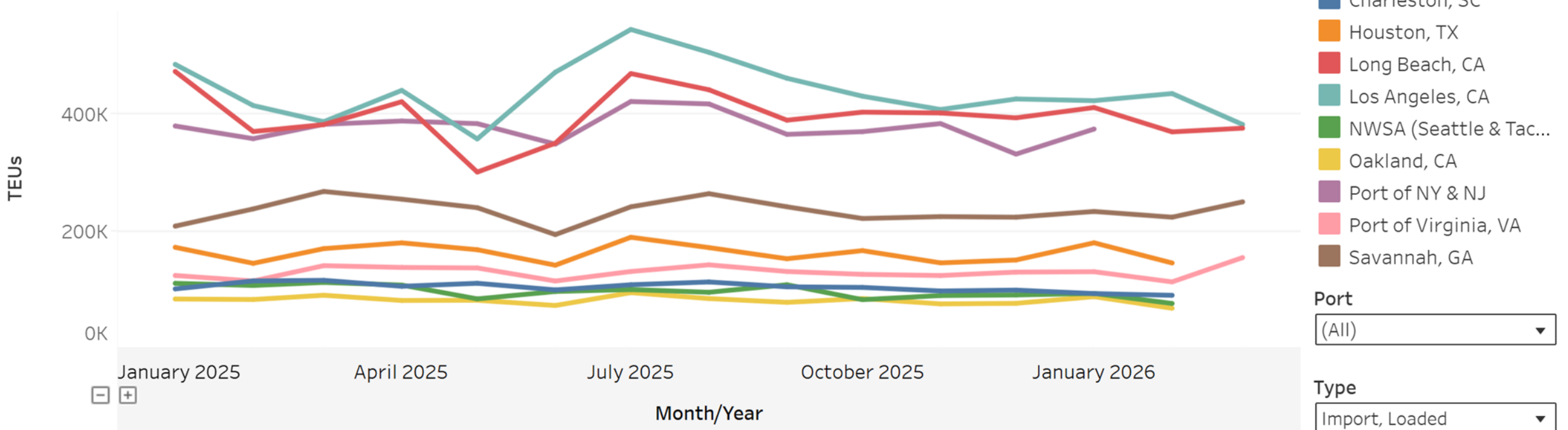


# Throughput Measures

- Throughput measures evaluate the work performed by terminals within a port and the productivity of all port assets.
- Metrics are aggregated at the port level.

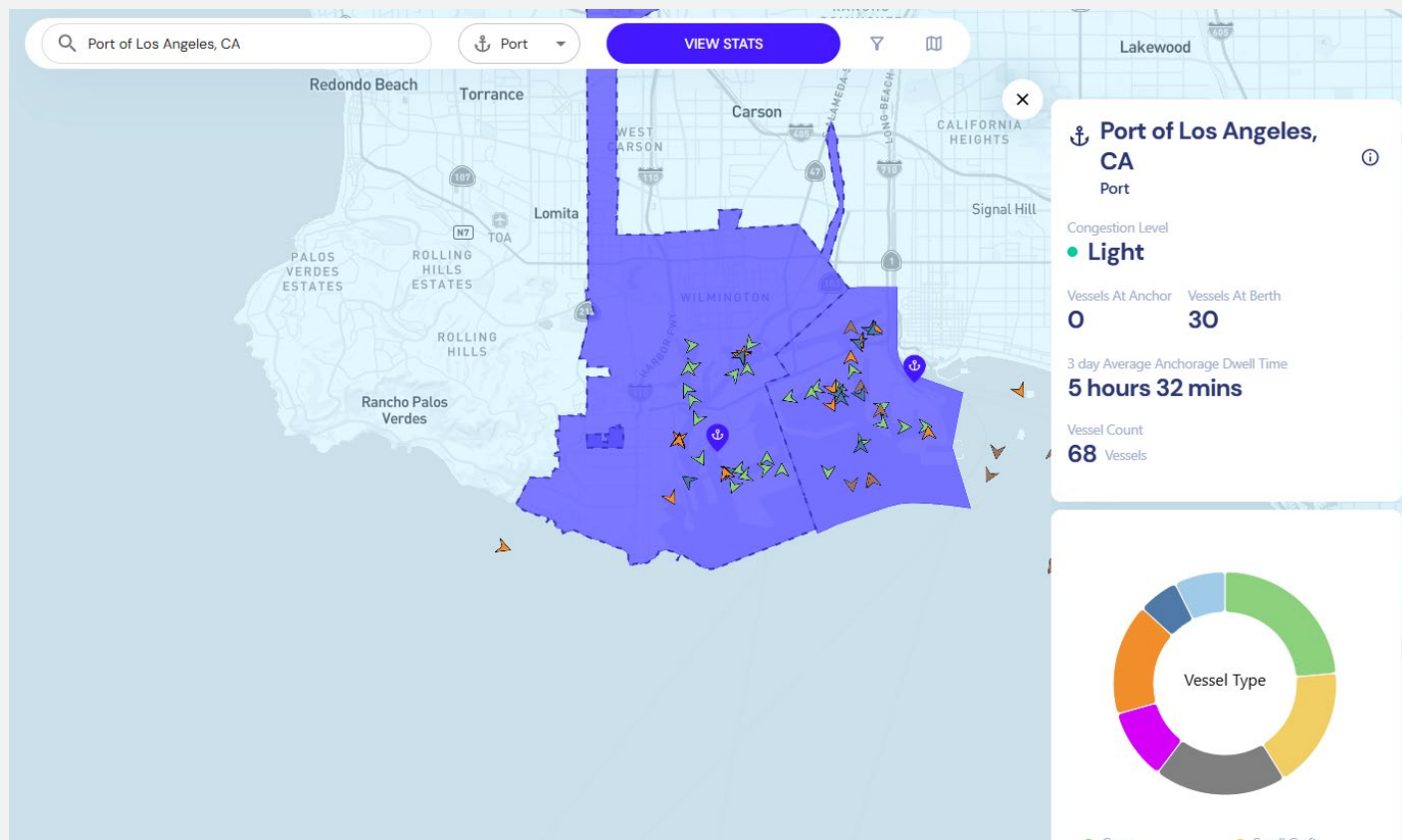
Monthly TEUs by Port

Full TEU Imports by Port and Month, Jan 2025 – March 2026

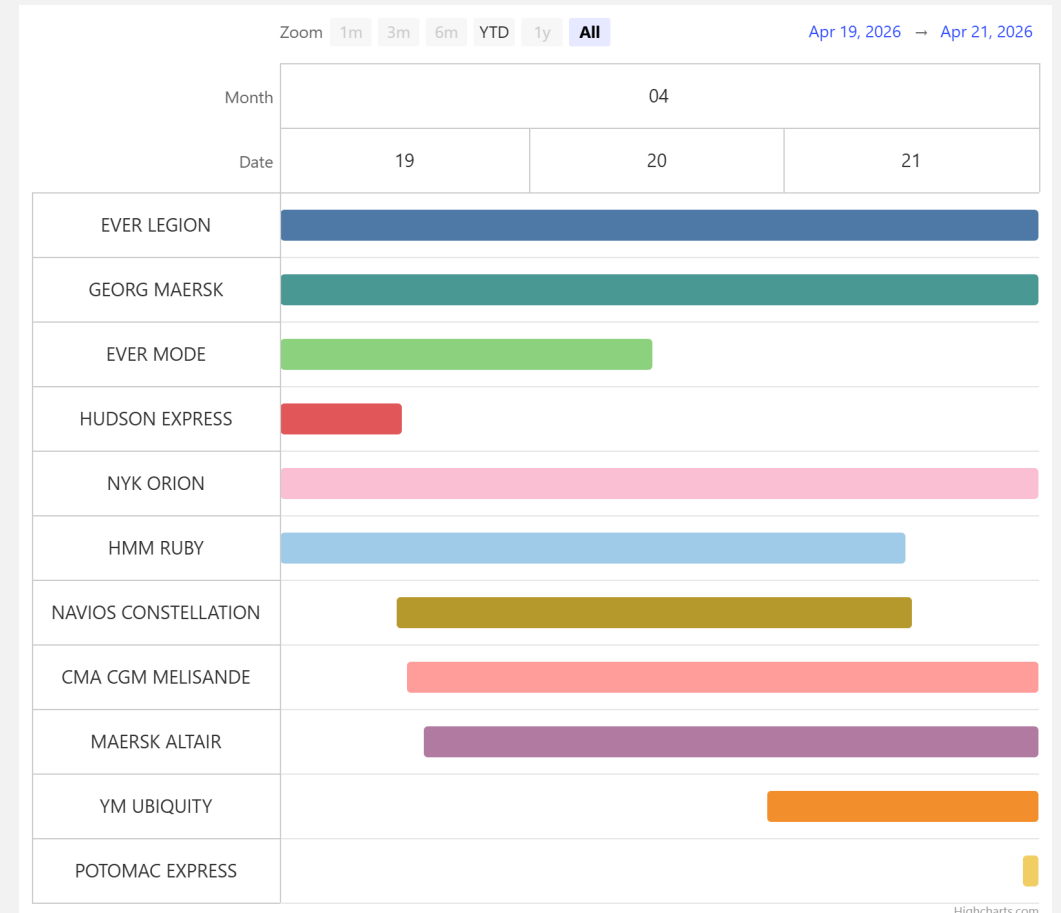


# Waterways Intelligence Monitoring System

This USDOT tool, developed by Trabus Technologies, processes and analyzes a live AIS feed to produce real-time and historic statistics on vessel calls and dwell times.



Bureau of Transportation Statistics



Highcharts.com

## Historical Port Analytics

Port: 
 Port and Subareas: 
 Date Range: 
 Vessel Status: 
 Vessel Types:

[SEE LOCATIONS ON MAP](#)

\*Vessel Type\* and \*Vessel Status\* are as broadcasted by a vessel via the Automatic Identification System (AIS)

VESSEL ANALYTICS **PORT CONGESTION**

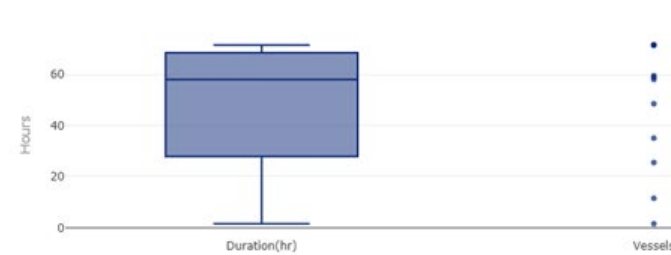
### Overview

Average Dwell Time for MOORED Vessels: **46.64hr**

Total Vessels: **11**

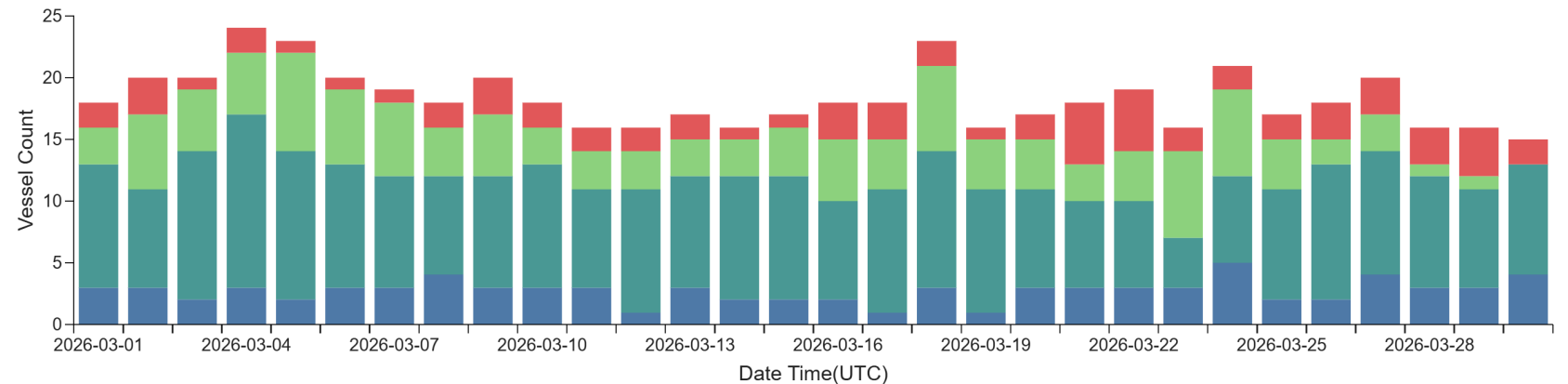
Vessel Type	Dwell Time(hr)
CONTAINERSHIP	46.64

Distribution Plot



## Daily Vessels at Berth by Vessel Type at the Port of Los Angeles, March 2026

- PASSENGER
- CONTAINERSHIP
- GENERAL CARGO
- GENERAL TANKER

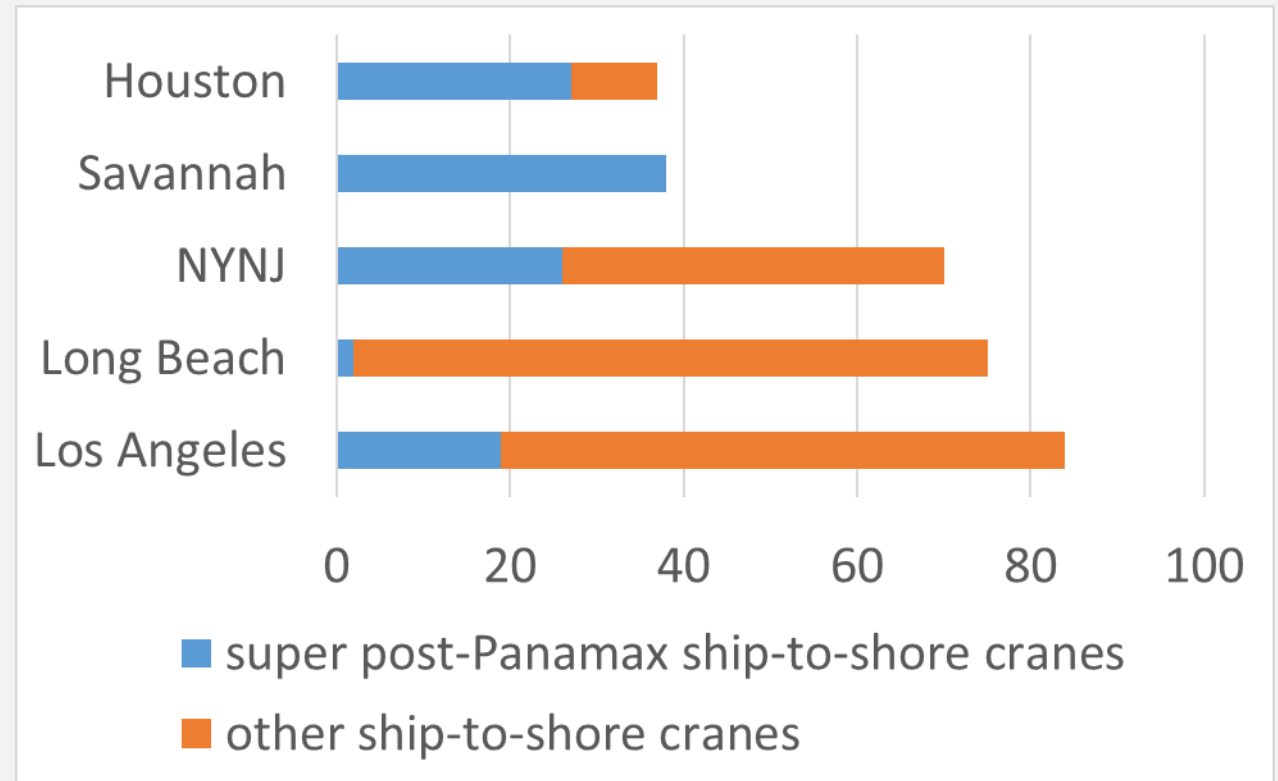


# Measures of Capacity and Contributing Factors

## Measure Examples:

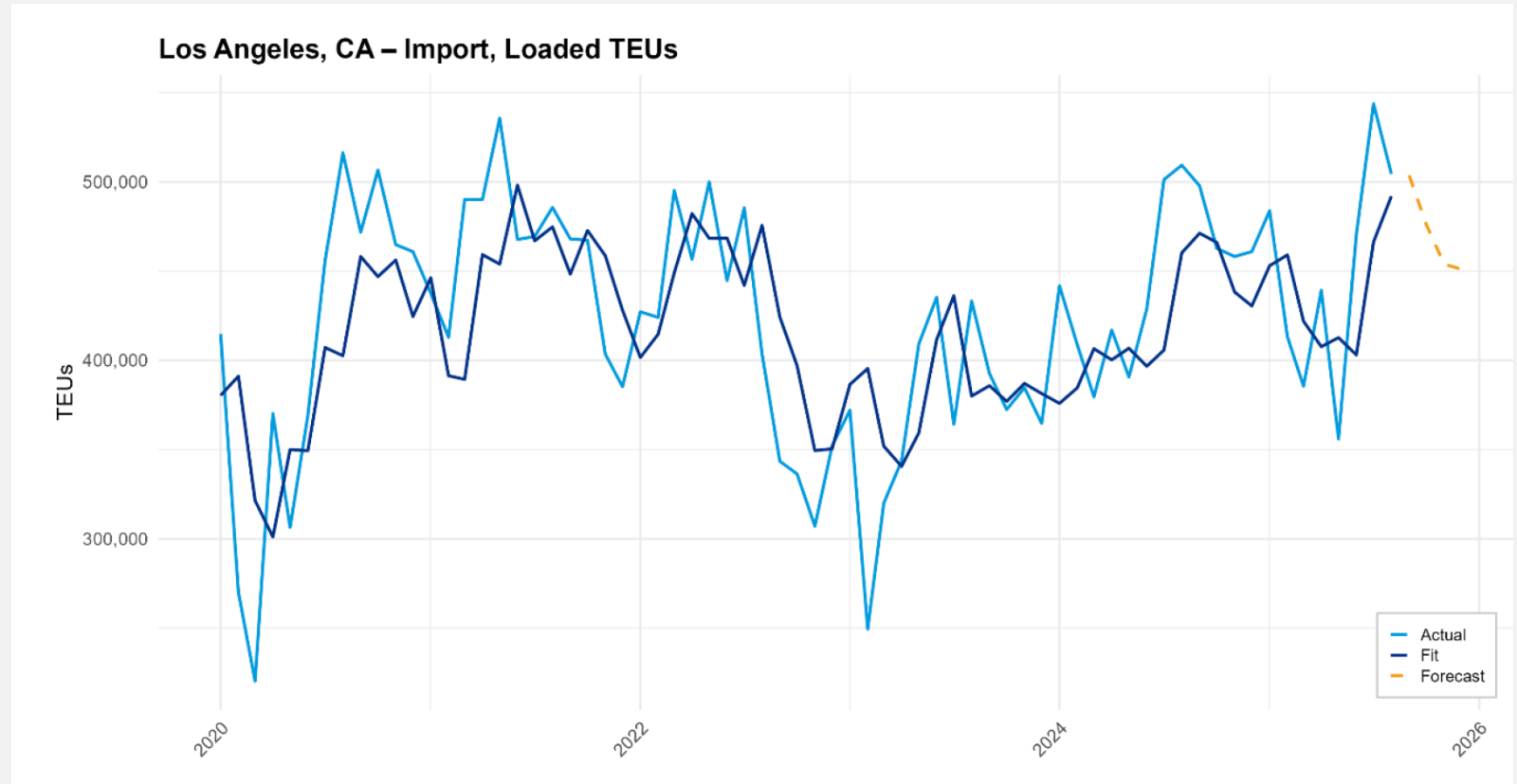
- Capacity of containerships (size) calling at U.S. ports
- Containerships at anchorage
- Bridge air draft restrictions
- Main shipping channel depth
- Number of ship-to-shore cranes
- Number of terminals with rail transfer facilities

Number of Ship-to-Shore Cranes by Type and Port as of Oct 2025



# Predictive Modeling

- ARIMA model was applied to forecast monthly TEUs
- Used publicly available monthly TEUs data, scraped from the ports' websites



ARIMA Estimates for PoLA

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# AI / Machine Learning Opportunities

- Web scraping
  - Blanked sailings
  - Port Authority published statistics
  - Infrastructure investment announcements
- MTS mapping
  - Berth locations
  - Anchorage areas
- Outlier/error detection
  - Valid vessel berthing and anchorage times
  - Vessel type
- Prediction modeling
  - Cargo throughput



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