



**THE NORTHWEST  
SEAPORT ALLIANCE**  
*Gateway to Solutions*

*Briefing for*

# Seattle City Council

**John Wolfe, CEO**

January 30, 2017

# Overview

- **Formation and structure of the Northwest Seaport Alliance**
- **Big ships, an evolving industry and competitive threats**
- **Striving for operational excellence**
- **Improving our communities**



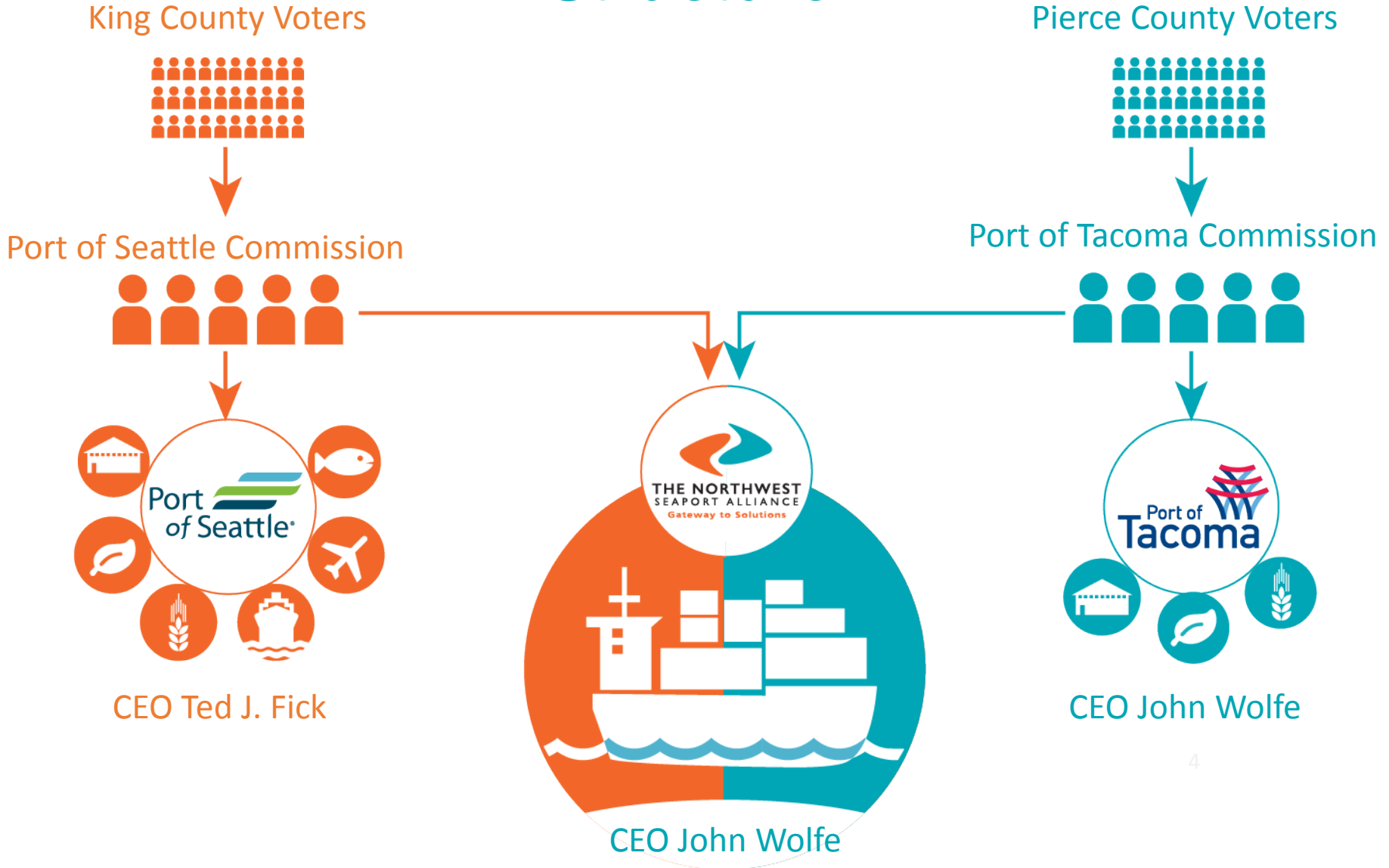
# The Gateway History

Port of Seattle Established 1912

Port of Tacoma Established 1918



# Northwest Seaport Alliance Structure





PORT OF SEATTLE OR  
"NORTH HARBOR"

T-30  
NEAR DOCK RAIL  
BIG CRANES

T-46  
NEAR DOCK RAIL  
BIG CRANES

T-18  
ON DOCK RAIL  
BIG CRANES

T-5  
ON DOCK RAIL

Deep Water

Deep Water

Gateway efficiency: **BIG SHIP READY HARBORS**

ALL TERMINALS  
AVERAGE BERTH TIME:  
UNDER 48 HOURS

PCT  
ON DOCK RAIL  
BIG CRANES

WUT  
ON DOCK RAIL  
BIG CRANES

APM  
NEAR DOCK RAIL

HUSKY/OCT  
ON DOCK RAIL  
BIG CRANES

TOTE

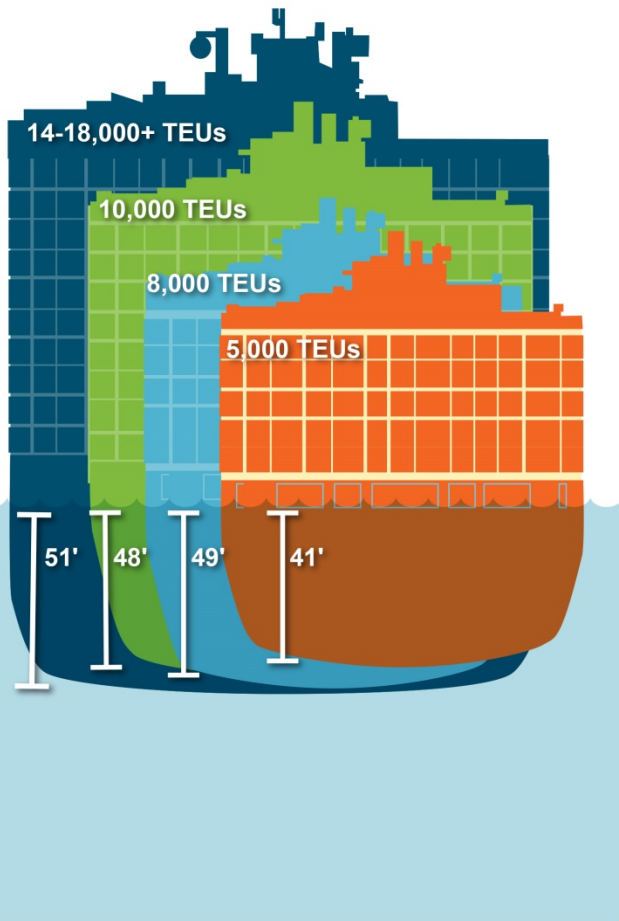
Deep Water

PORT OF TACOMA OR  
"SOUTH HARBOR"

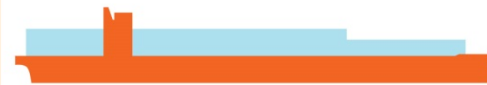




# Big Ships and Their Impacts



## 5,000 TEU Vessels Began calling 2000



Length 935'  
Beam 131'  
Draft 43'

Containers  
high on deck 9  
Containers  
below deck 5

Containers  
across 15

## 8,000 TEU Vessels Began calling 2009



984' 141' 48'

9  
6

17

## 10,000 TEU Vessels Began calling 2009



1145' 150' 49'

10  
8

18

## 15,000 TEU Vessels Began calling 2016



1230' 184' 51'

10  
8

22

## 18,000 TEU Vessels



1312' 194' 51'

10  
8

23



# Big Ships and Their Impacts

## Carrier Alliances (Starting April 2017)

### 2M Alliance



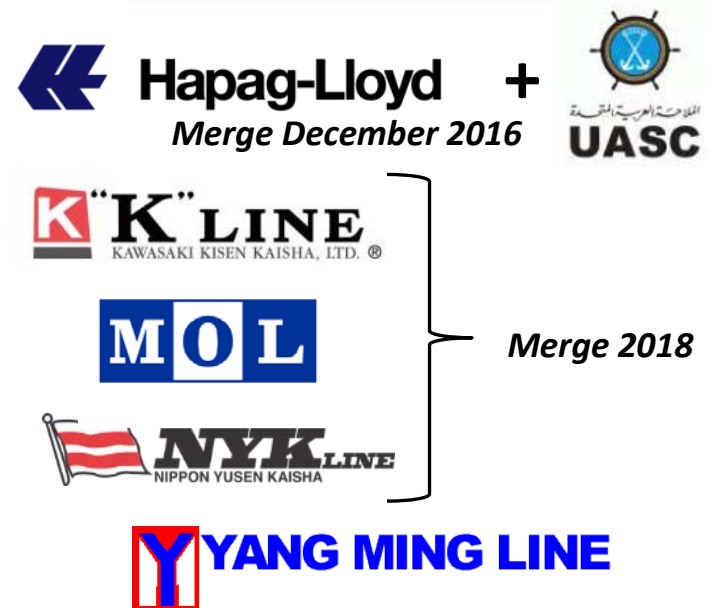
### Independent



### Ocean Alliance

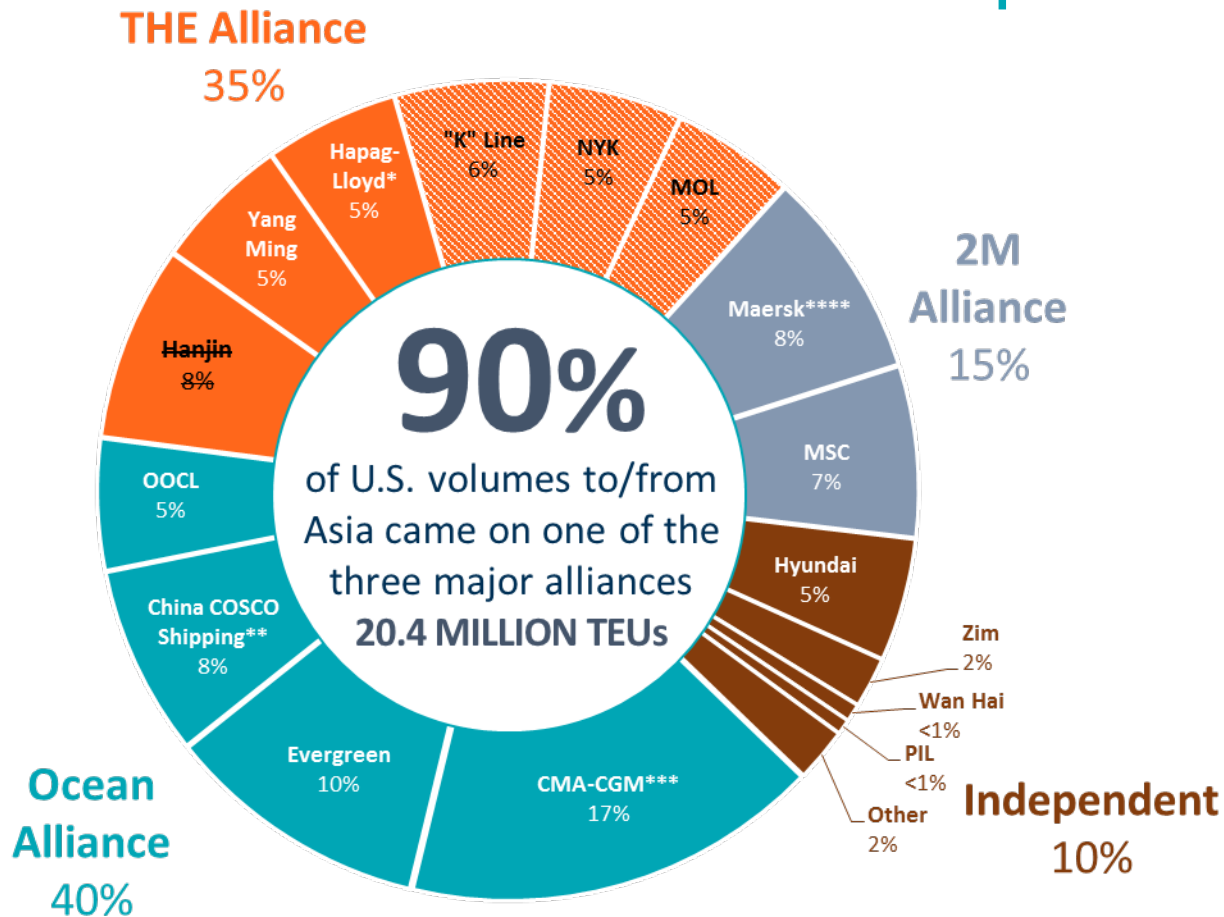


### THE Alliance



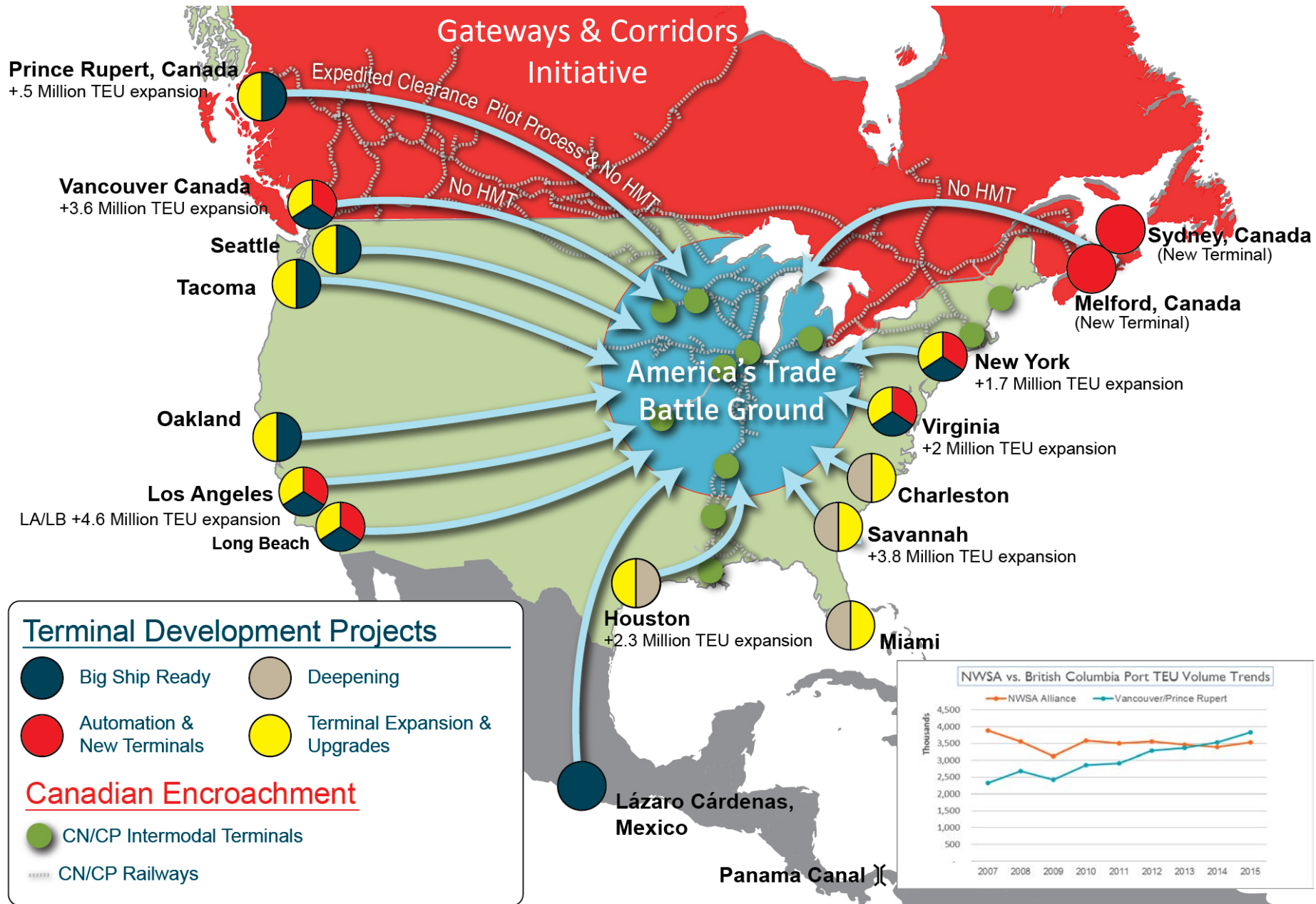
# Big Ships and Their Impacts

## 2015 Transpacific Market Share %\*



\* Specifies carrier alliances starting April 2017

# Terminals, Canadian Encroachment and Competition





# Terminal 5 Modernization

Upland  
Improvements

Dock  
Strengthening

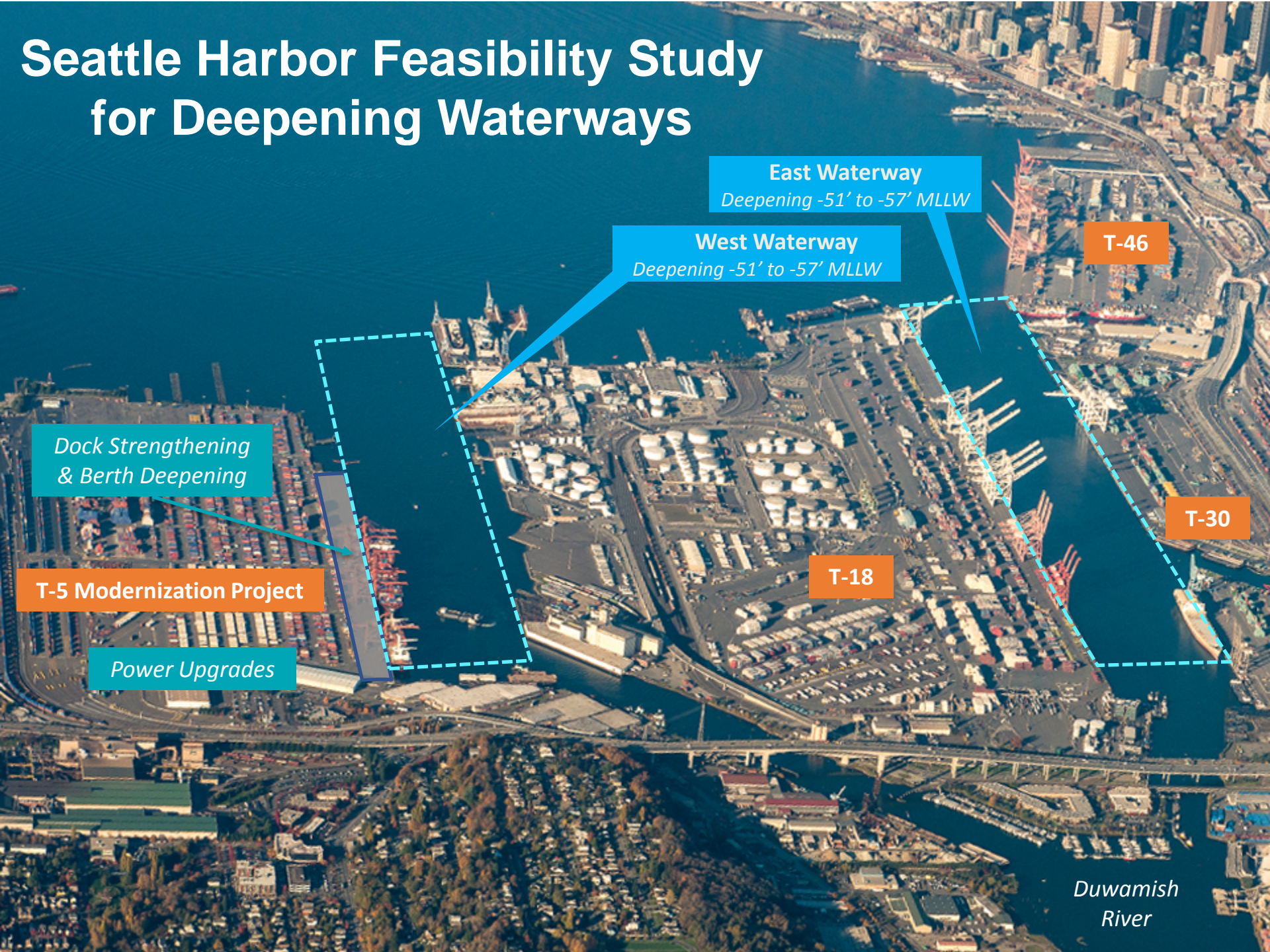
Berth  
Deepening

Power  
Upgrades





# Seattle Harbor Feasibility Study for Deepening Waterways



**East Waterway**  
*Deepening -51' to -57' MLLW*

**West Waterway**  
*Deepening -51' to -57' MLLW*

**T-46**

**T-30**

**T-18**

**Dock Strengthening  
& Berth Deepening**

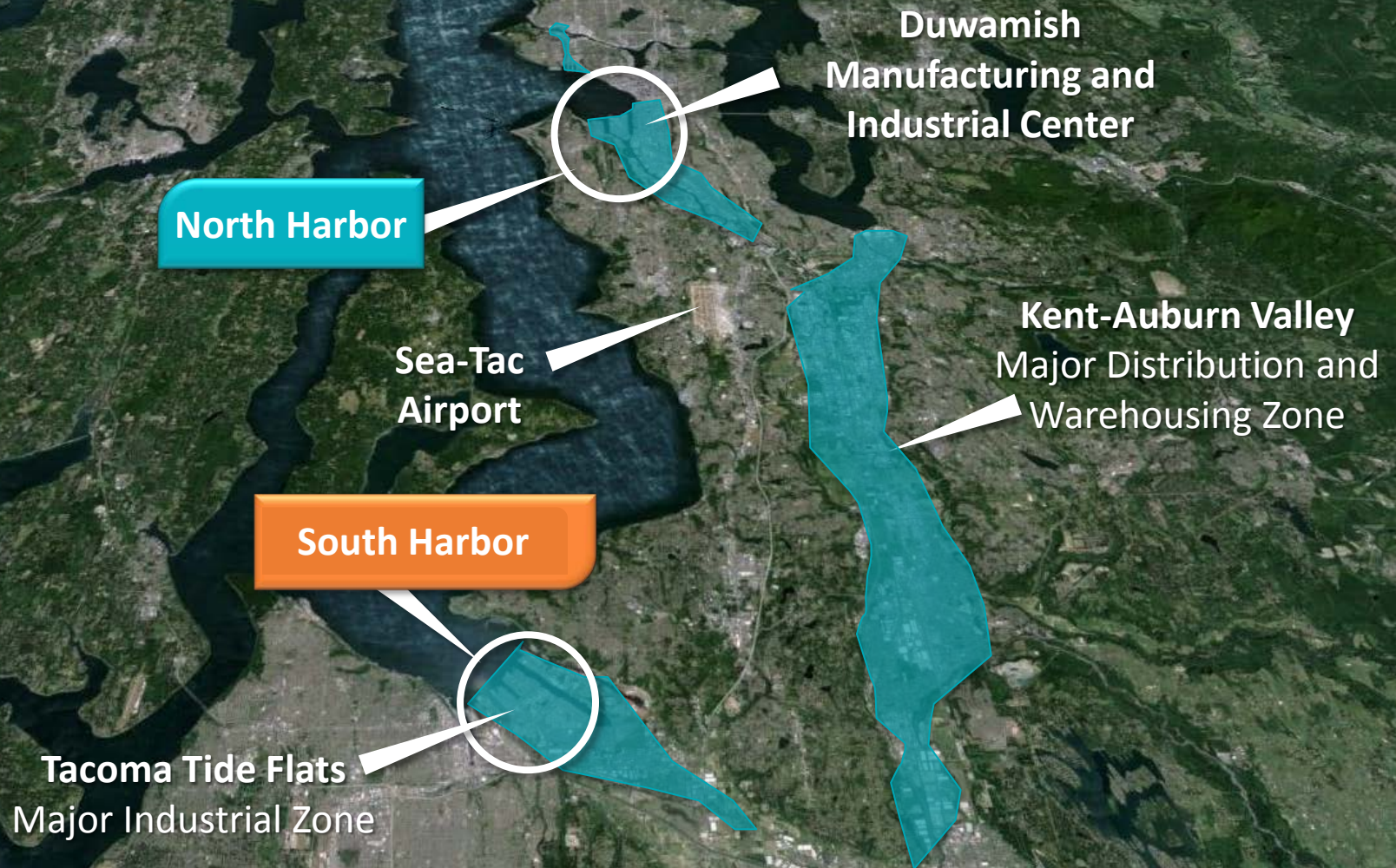
**T-5 Modernization Project**

**Power Upgrades**

*Duwamish  
River*



# Industrial Lands are vital to our success





# Striving for Operational Excellence

## Key Performance Indicators (KPIs)

### KPIs

- On-Time pro-forma vessel arrival and departure
- Vessel production
- Truck turn time
- Average import rail dwell
- Import rail transit time



## Operations Service Center

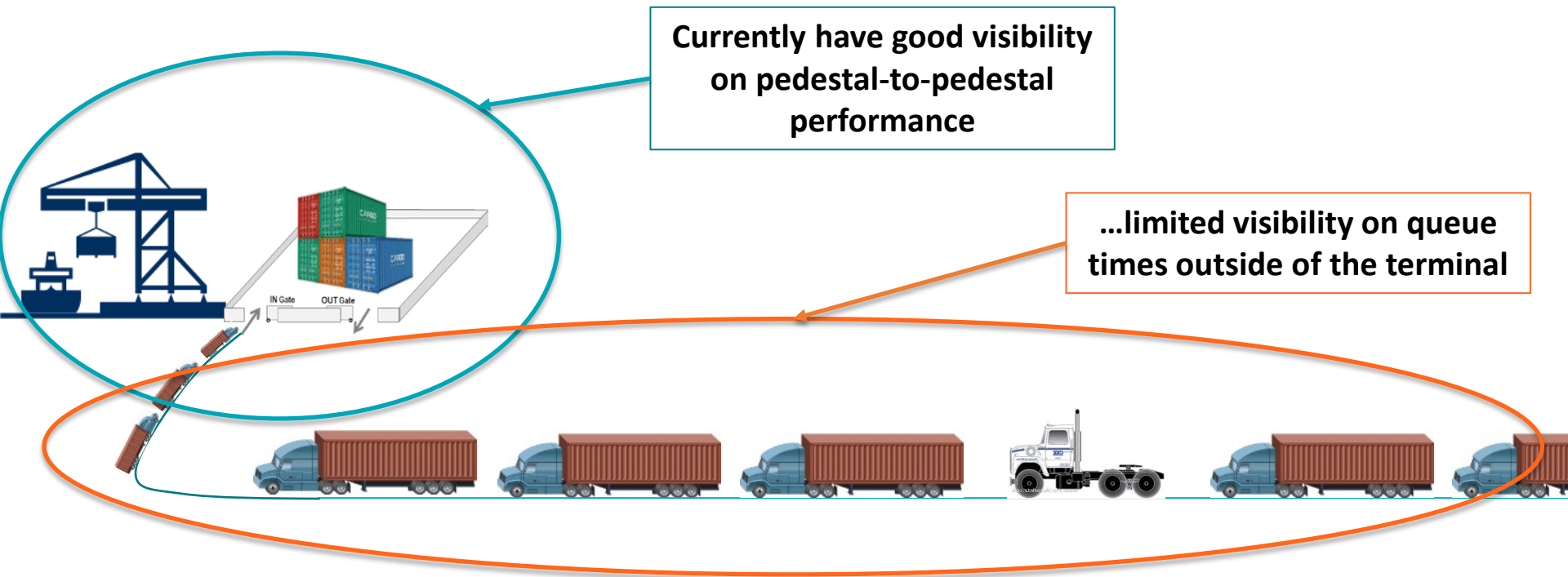


## Executive Advisory Council

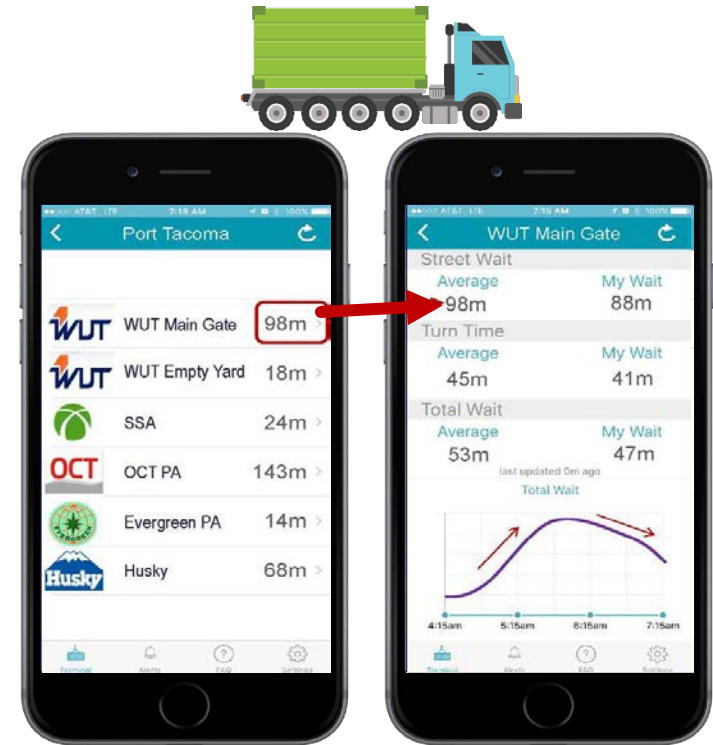
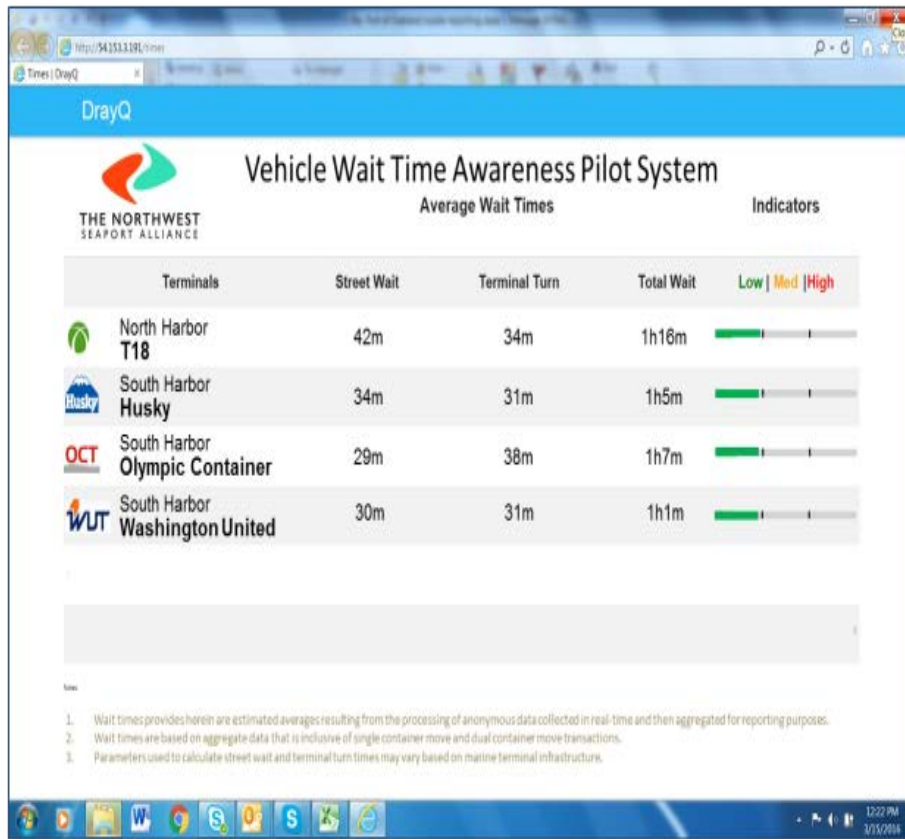


# Drayage Truck Wait Time Awareness Program – DrayQ

**Goal:** Provide visibility of full terminal turn times to port community with the long range goal of integrating the supply chain



# DrayQ – smartphone and dash boarding technology



**Smartphone access and dash boarding provides estimated transaction times at marine terminals based on real time feeds of current activity levels**

# Improving Our Communities



Northwest Ports  
Clean Air Strategy



Clean Trucks Program

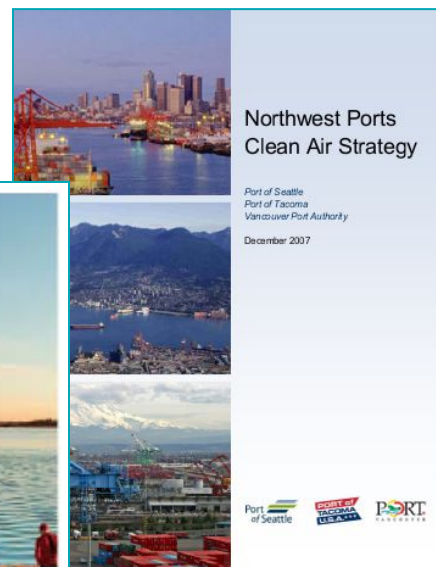
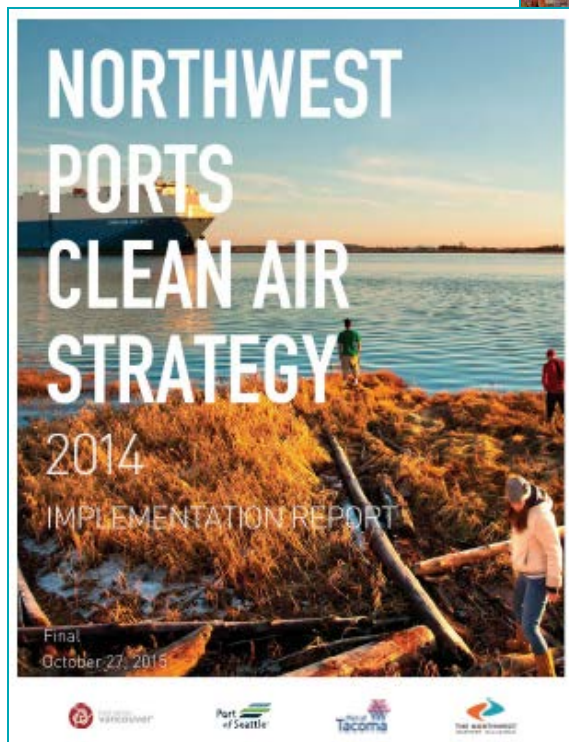


Fostering Economic  
Growth in the Pacific  
Northwest



# Northwest Ports Clean Air Strategy

In 2007, the Port of Seattle seaport, the Port of Tacoma and Port Metro Vancouver, Canada, initiated the Northwest Ports Clean Air Strategy. Going forward, NWSA will be another port partner.



# Clean Trucks Program



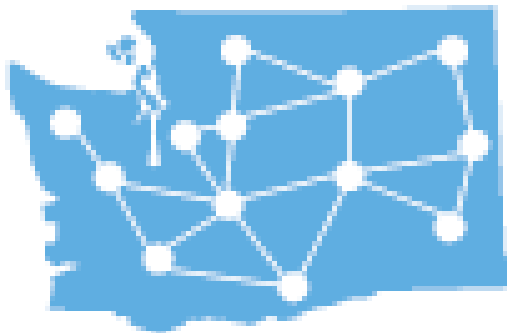
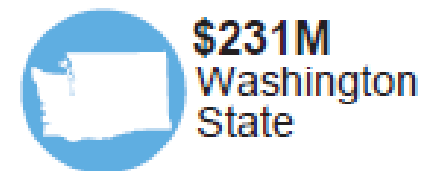
Seaport Truck **Sc**rappage and  
**R**eplacements for **A**ir in **Pu**get **S**ound



The Clean Truck Program aims to keep trucking partners in business while supporting clean air for our communities.

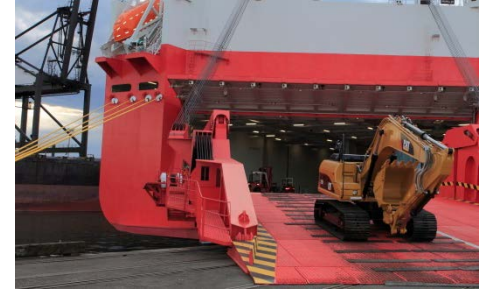


# Fostering Economic Growth



Related economic activity is affiliated with **\$138.1 billion** in total economic activity in the state – one third of Washington's GDP.





**THE NORTHWEST**  
SEAPORT ALLIANCE  
*Gateway to Solutions*

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