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## *Digitizing the Maritime Supply Chain*



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NORTHWESTERN UNIVERSITY  
TRANSPORTATION CENTER

**THE PORT**  
**OF LOS ANGELES** 

# Port of Los Angeles Overview

- Founded in 1907
- Non-taxpayer supported
- Municipal, landlord port
- State Tidelands Trust
- 4,300 acres land/ 3,200 acres water
- 270 berths and 27 cargo terminals
- 91 cranes
- 7 container terminals
  - *76% of port revenue last FY*
  - *Largest generator of jobs*



Los Angeles  
Harbor Department



Los Angeles City Hall



# Western Hemisphere's Largest Trade Gateway

## **SPEED – FREQUENCY - RELIABILITY**

### **Superior Access to US Markets**

- Mega-region of **22 million consumers**
- **Good weather** year-round
- 14,000-strong longshore workforce
- **\$1.8 Billion square feet** of warehouse/DC space
- \$2.4 Billion **Alameda Corridor**
- **100 trains** daily through LA basin
- 2 Class-1 Railroads: Union Pacific & BNSF
- Access to **Major Freight Hubs,** including:

|             |         |
|-------------|---------|
| Chicago     | Atlanta |
| Memphis     | Houston |
| San Antonio | Denver  |
| Kansas City | Dallas  |
| New York    |         |



# Major Factors Impacting Ports

## ➤ Larger Ships

- Substantial infrastructure costs – wharfs, terminals, rail lines and roadways
- Cargo surges overwhelm terminals and transportation infrastructure
- More pressure on positioning of land-side assets (e.g. chassis, locomotives) and truck gate operations

## ➤ Dominance of Carrier Alliances

- Three Major alliances among 13 carriers put more pressure on ports, terminals
- In LA-Long Beach, weekly service calls can alternate between terminals and ports
- Over-capacity will continue to erode bottom-line profitability

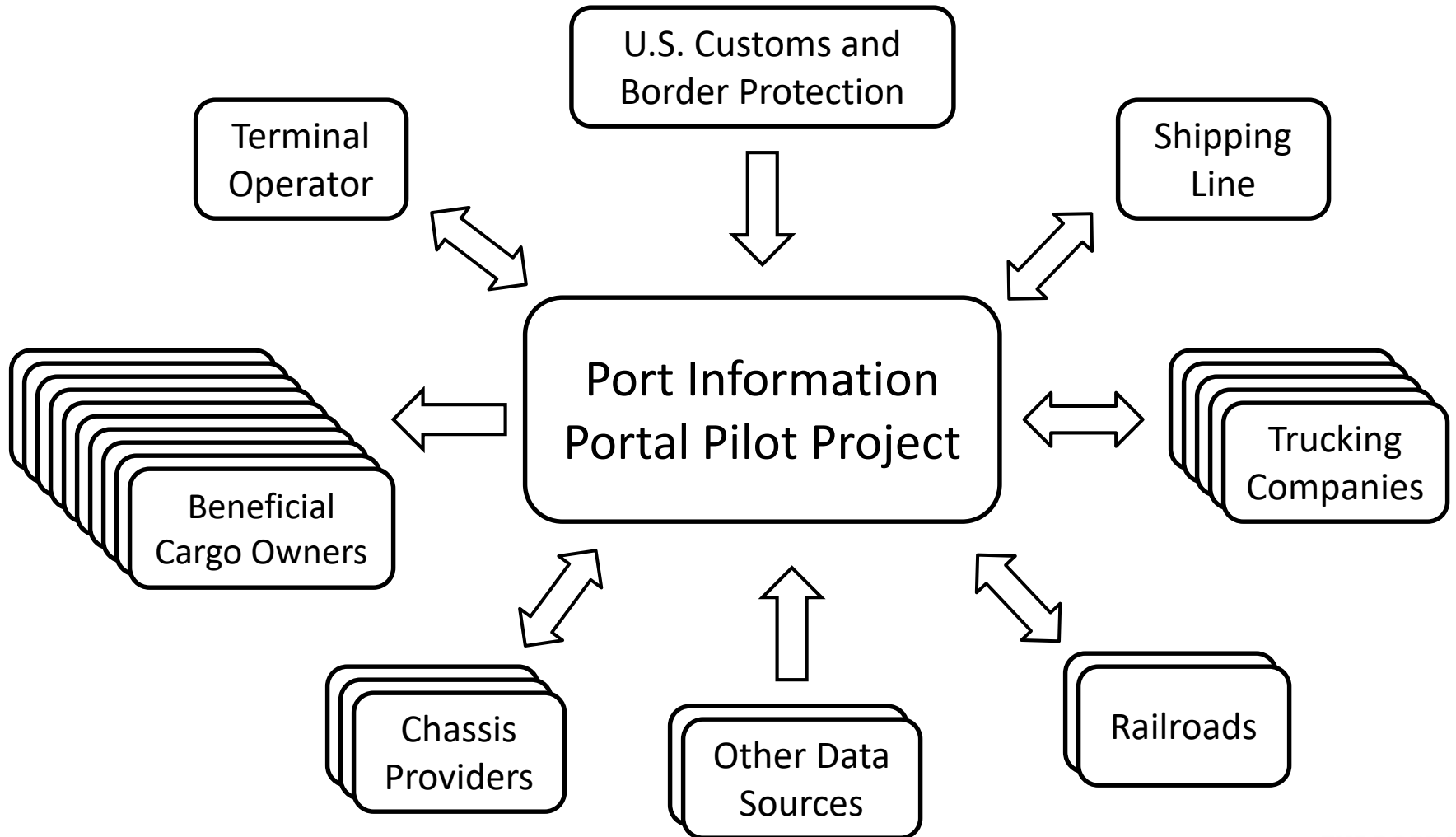
## ➤ Technology-Deficient Operations

- Digital infrastructure investment is not top-of-mind
- Too many online systems make cargo tracking and upstream conveyance a painstaking process for BCOs, Freight Forwarders and trucking companies
- The 48-hour line-of-site on arriving cargo is too short for effective planning

## ➤ Limited Space

- Requires ongoing terminal modernization projects
- Re-purposing surplus land to support short- and mid-term needs
- Ports must engage, facilitate the best solutions for terminals & carriers

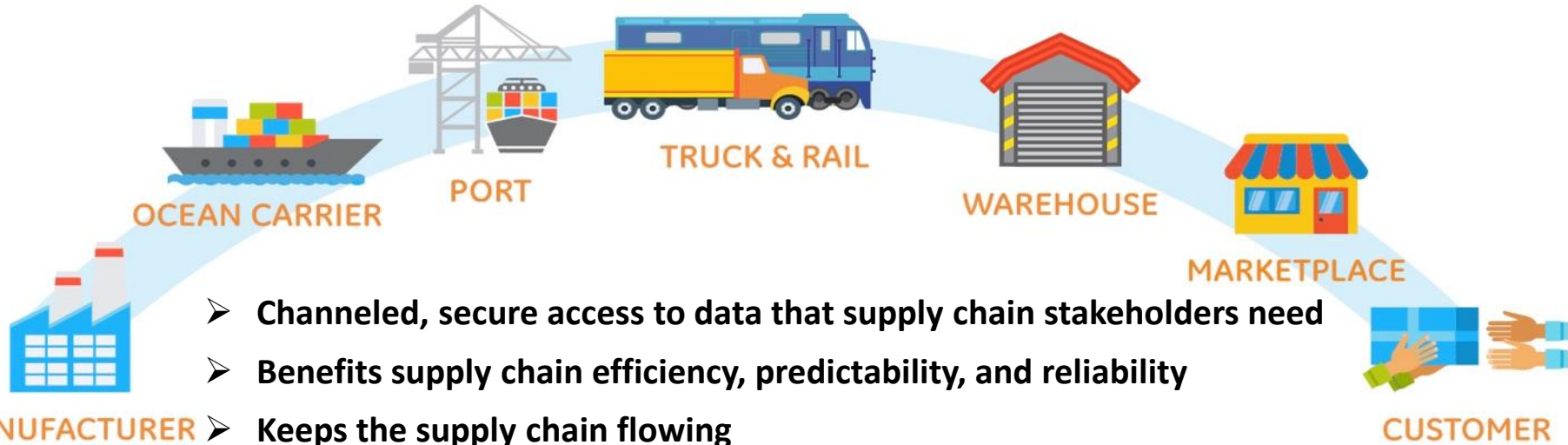
# Data Solutions Portal Concept



# GE Digital Portal Pilot Project

To conquer the complexity, the Port of Los Angeles and GE Transportation are partnering to launch a

## VISIONARY DIGITAL SOLUTION



- Channeled, secure access to data that supply chain stakeholders need
- Benefits supply chain efficiency, predictability, and reliability
- Keeps the supply chain flowing
- Phase 1 pilot mid-May through end of June
- Phase 2 (2018) will expand the pilot to 2 more terminals and 11 more lines

# Cyber Security Operations Center

- 24x7 defense against 20+ million intrusion attempts per month
- Technologies: Cyber Security Operations Center (*First for ports, in operation since 2014*)
- Processes: ISO 27001 certified Information Security Management System (*First and only for ports, certified since 2015*)
- Personnel: Dedicated cybersecurity team, including qualified employees with cyber security industry certifications
- Collaboration with City of LA, USCG, FBI, USSS, DHS, AAPA





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**Thank You.**