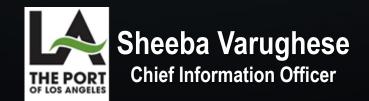
### Northwestern University Transportation Center Business Advisory Council - Industry Technical Workshop

# Cybersecurity Practices in Transportation and Logistics



### Port of Los Angeles



- America's Port®
- Founded Dec. 9, 1907
- A department of the City of LA
- Governed by the Los Angeles
   Board of Harbor Commissioners
- Ranked as No. 1 container port in Western Hemisphere for 24 consecutive years (2000-2023)

- 7,500 acres (4,300 land/3,200 water)
- 43 miles of waterfront
- 25 cargo terminals including seven container terminals
- 122 miles of rail
- 15 marinas
- Connection to one in nine jobs in Southern California and nearly 3 million jobs nationwide

## Cyber Security





Cyber Security Operations
Center (CSOC) Focus:
Port Cybersecurity Operations

Cyber Resilience Center (CRC)
Focus:
Port Ecosystem Resilience

### Port of Los Angeles Cyber Security



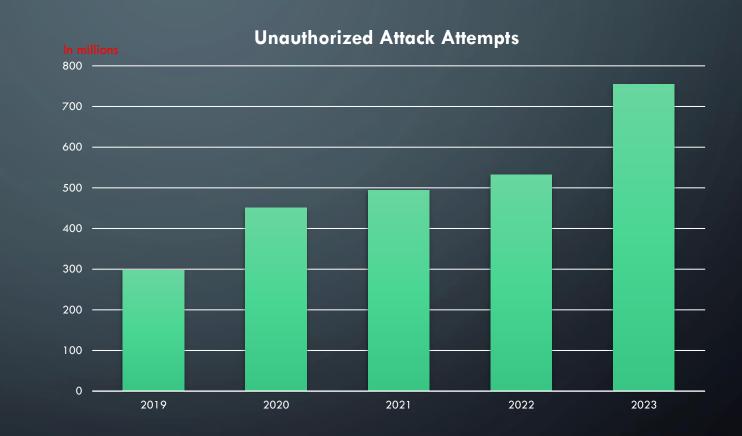
- Technologies: Cyber Security
  Operations Center Best of breed solutions
  - Processes: ISO 27001 certified Information Security Management System, NIST, FedRAMP
  - People:
    - CSOC Team: Full-time employees with industry credentials
    - Computer Users: Mandatory cyber security awareness training



#### Cyber Operations Center / Use Cases



- Security Posture Overview
- Situational Awareness
- Infrastructure Monitoring
- Denial of Service/Distributed
   Denial of Service (DoS/DDoS)
- Malware Outbreak
- Trusted 3<sup>rd</sup> Party and External Vendor Provider Services



#### Cyber Resilience Center





- Cyber attacks continued against our computer systems with more frequent intrusion attempts
- Cyber risks increased
  - Digitalization
  - Maritime Incidents
  - Coordinated Attacks
- Port of Los Angeles established contract agreement with IBM

#### Cyber Resilience Center Concept





- Reduce cyber risks that could disrupt the flow of cargo
- Early warning system for the ecosystem with improved quality, quantity and speed of cyber information sharing
- Greater collective knowledge of relevant cyber threats in the supply chain community
- Collaboration forum for stakeholder cyber personnel
- Information/advisory resource for recovery
- CRC is non-invasive, non-disruptive to existing cyber security operations

### Cyber Resilience Center Facility



State-of-the-Art facility completed October 2022

- 24x7, Onsite 8-5 and On-call After Hours
- Secured
- Located at the Harbor Administration Building





#### Cyber Resilience Center Operations



#### Operated by IBM

- Operational since January 2022
- Qualified Cybersecurity Analysts
- Weekly threat intelligence reports
- Correlate ecosystem security events
- Share, distribute and notify stakeholders of potential risks to the ecosystem
- Annual Cyber Security Awareness Training
  - ISO 27001 certified

#### Cyber Resilience Center Use Cases



- Threat Intelligence and Threat Landscape for Maritime Sector
- CRC Ecosystem Security Posture
- Malware/Hacker Group Focused
- Ecosystem Cyber Incident Focused

#### Cyber Resilience Center



#### What CRC will not do

- Not a replacement of stakeholders' cybersecurity efforts or security efforts overall
- Not intended to take responsibility for whether stakeholders take action on what risks are shared with them
- Not designed to intrude on stakeholders' current system
- Will not share information shared beyond the designated list of Port of LA stakeholders
- No sensitive information (i.e. no personally identifiable or business sensitive data)
- Not intended to expose stakeholders' cyber vulnerabilities
- Not additional information noise
- Not an elimination of stakeholders' cyber risks

#### Cyber Resilience Center



## Questions?