



TRUST BUT
VERIFY



Importance of Cybersecurity for Container Ports amid Technological Advancement

Annual Meeting
Davos 2025

WORLD
ECONOMIC
FORUM

Cyberattacks on shipping are on the rise

Global Cyber Attack Landscape



Port of Seattle

Ransomware - Rhysida

- Multiple systems outage
- Data Leaked



Port of San Juan

Ransomware

- near historic outage in dispatch of goods



3rd party vendor

MOVEit

- 2700+ organizations
- 95 million individual affected
- Data Leaked



DP World Australia

Ransomware - LockBit 3.0

- 4 days outage
- Affected 40% of goods flowing in/out



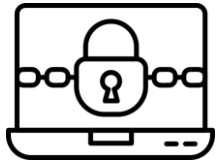
Port of Nagoya

Ransomware - LockBit 3.0

- 4 days outage
- >50% of operation halted



Global Cyber Attack Landscape



↑ 50%

**Ransomware attack increase
(>80% has data stolen)**



X3

**Exploitation of in-house
and vendor software
weaknesses**



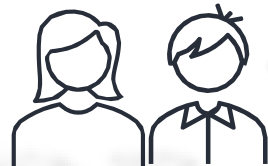
X7

**OT Incidents on CI,
2022 to 2024**



40%

**AI-generated
phishing email**



60%

**Recipients fall prey to
AI-generated
phishing email**

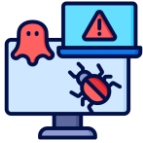


46%

**OT incidents attack
path is from IT into
OT environment**



PSA Top Cyber Threats & Business Impact



Software Weakness Exploitation

Gain access to PSA network or system via loopholes



Third Party Vendor Compromise

Exploit PSA's trust on our vendor to attack PSA assets



Ransomware

Encrypt files, steal data. Demand for ransom Payment



Phishing Scam

Pretend to be someone trusted asking for personal info or money



DDOS

Flood PSA Internet Service and prevent customers or users from accessing

Disrupt operations & service level to Customer

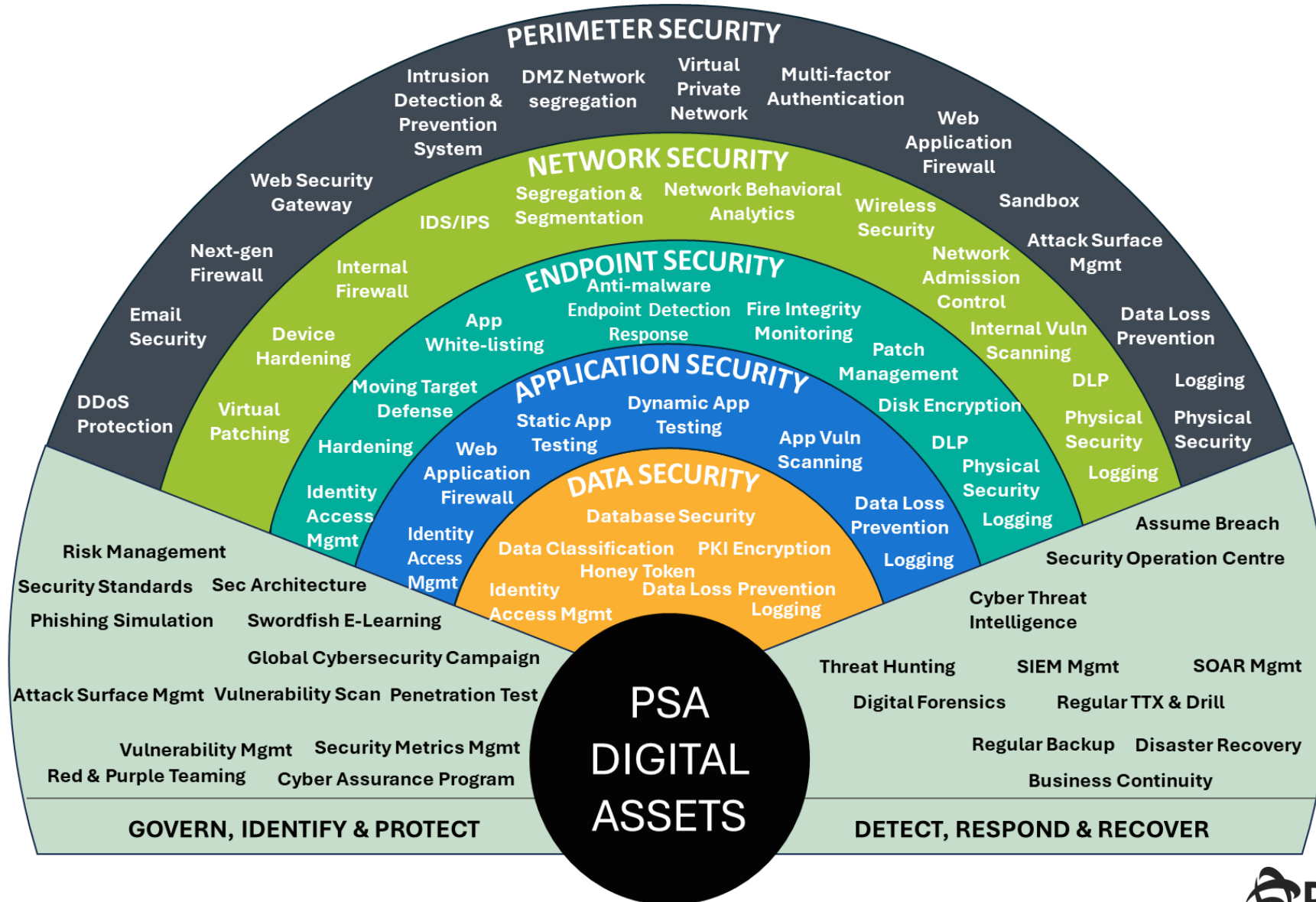
Steal PSA secrets and confidential data

Tarnish PSA reputation.
Loss in stakeholders' confidence

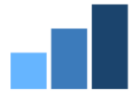
Financial loss



PSA Multi-Layer Defences



Uplifting BUs Cybersecurity Maturity



C2M2

Cybersecurity Capability Maturity Model (C2M2)

PSA Dashboard For IT

[illegible]

Target Maturity

Areas to improve

**To enhance Cybersecurity Posture, BU to achieve the target maturity.
Prioritize actions and investments accordingly.**

Strengthening Group-wide Cybersecurity Resilience with 3Rs

Remediate Fast

Promptly apply software patch to address critical vulnerabilities, especially for **critical software**

[Time to Remediate]

Measure how promptly critical vulnerabilities are remediated

Target : Meet remediation timeline in Group Cybersecurity Standards

Respond Fast

Regularly update and test incident response plan with **scenario-specific playbooks**, integrated with crisis mgmt and communication plan

[Time to Respond]

Measure how quickly incident can be responded to

Target : Meet response time in service level agreement

Recover Fast

Regularly update and test recovery plan (DRP & BCP) with **table-top exercises** and **drills**

[Time to Recover]

Measure how quickly operations can resume from an incident

Target : Meet business maximum allowable outage timeline

PSA Global Cybersecurity 2025-2026 Focus Areas

OT Posture

GOTSS

SIEM OT
Monitoring

OT Posture
Assessment

Resilience

3Rs Strategy

CSMS

Cyber
Masterplan 2.0

Assurance

Global CAP

Red Team & TTX

BAS - Cymulate

C2M2
Cyber Maturity

Capability

Global Cyber
Workshop

Employee
Awareness

Cyber Staff
Development

Technology

Cybersecurity
Architecture
Blueprint

Securing
Emerging
Technology



TRUST BUT
VERIFY



Thank You

**Building a Secure & Resilient
Digital Ecosystem through
Collective Defence**