

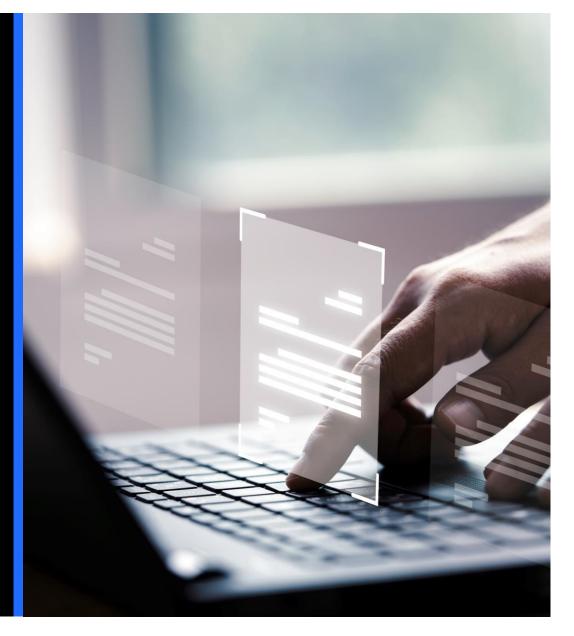


# Data & Digital Solutions for Supply Chain Resilience

**Eddie Ng** Head, Data & Analytics PSA BDP

**ASEAN-Japan** A PRESENTATION FOR:

**Business Meeting** 



# Leading Global Port Operator and Trusted Supply Chain Partner to Cargo Stakeholders





### **Ports**

- 90.5 million TEUs in 2022
- World's Busiest Transhipment Hub
  - ~ 1/7 of the world's transhipment throughput
- Port+ services
  - Rail hubs, warehouses and CFS; rail connectivity

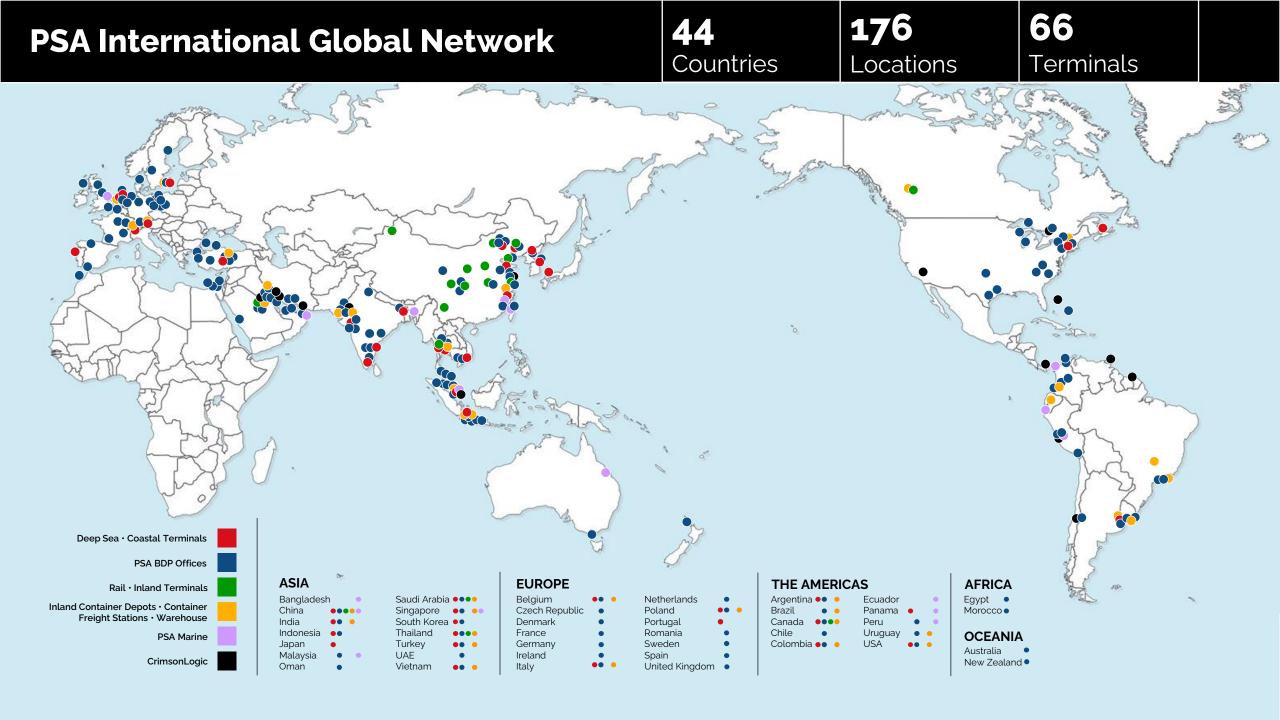
## Cargo Solutions

- More than 1.75 million shipments handled in 2022
- Over 80 million kilograms via air freight and 300k TEUs handled in 2022
- Manage over 1400 trade lanes
- Over 100 warehouses operating in 20 countries

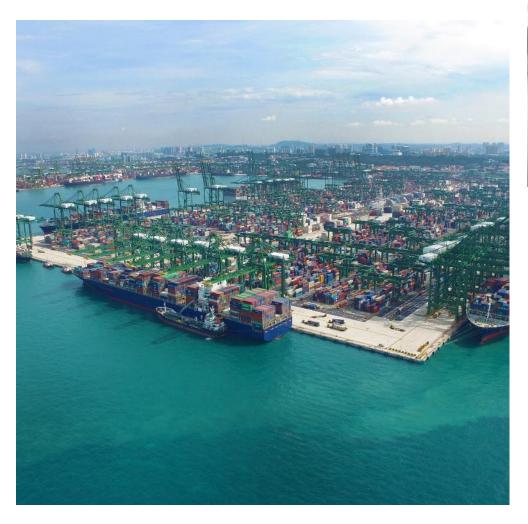
## **Group Facts**

- 66 deepsea, rail and inland terminals, across 176 locations in 44 countries
- 50,000 staff globally
- Group net revenue of S\$8b in 2022





## **PSA BDP**





## QUICK FACTS

- Supply chain and cargo solutions enterprise backed by leading port group PSA International
- BDP International, founded in 1966, and PSA Cargo Solutions rebranded to PSA BDP in April 2023
- Annual sales of \$5.1 billion USD
- 6,900 employees globally
- 139 offices in 40 countries
- Serving 5,500 customers



## **Products & Solutions**

#### INDUSTRY SECTORS









#### PRODUCT SUITE



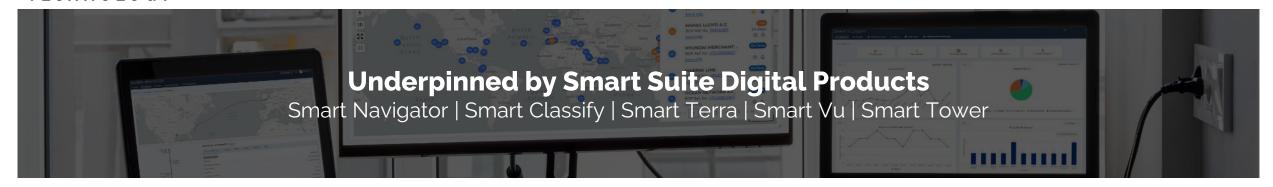






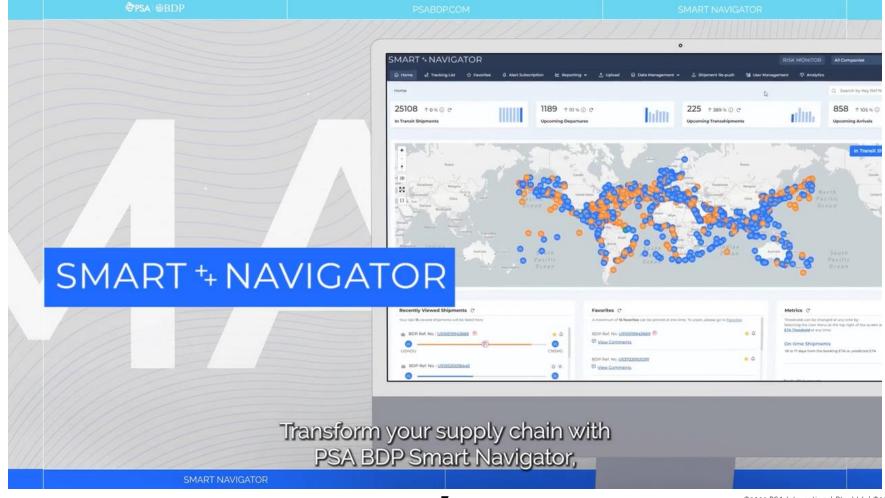


#### **TECHNOLOGY**





# Supply Chain Visibility & Risk Management are key ingredients to a Resilient & Sustainable Supply Chain



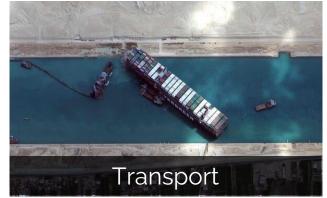


# 53% of supply chains disrupted 50% of the time or more

Source: Gartner



## We Live in the Never Normal World















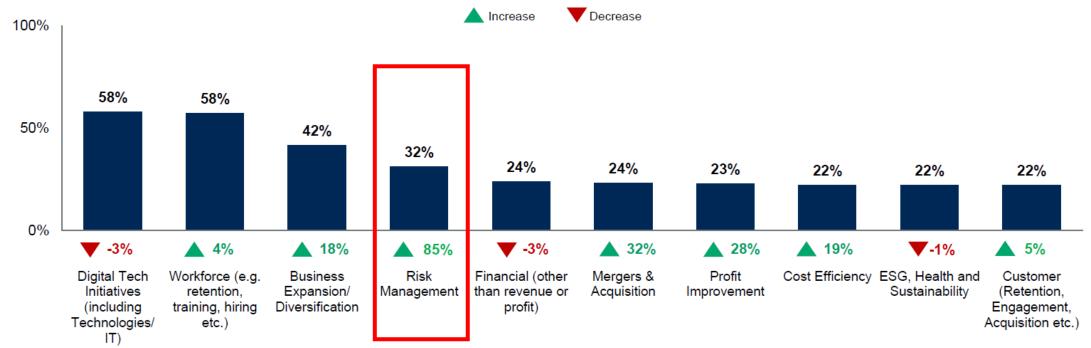




# Risk Management a Strategic Business Priority for 2024/2025

## Top 10 Strategic Business Priorities for 2024/2025 – YoY Percentage Change

Sum of Top 5, Coded Multiple Responses

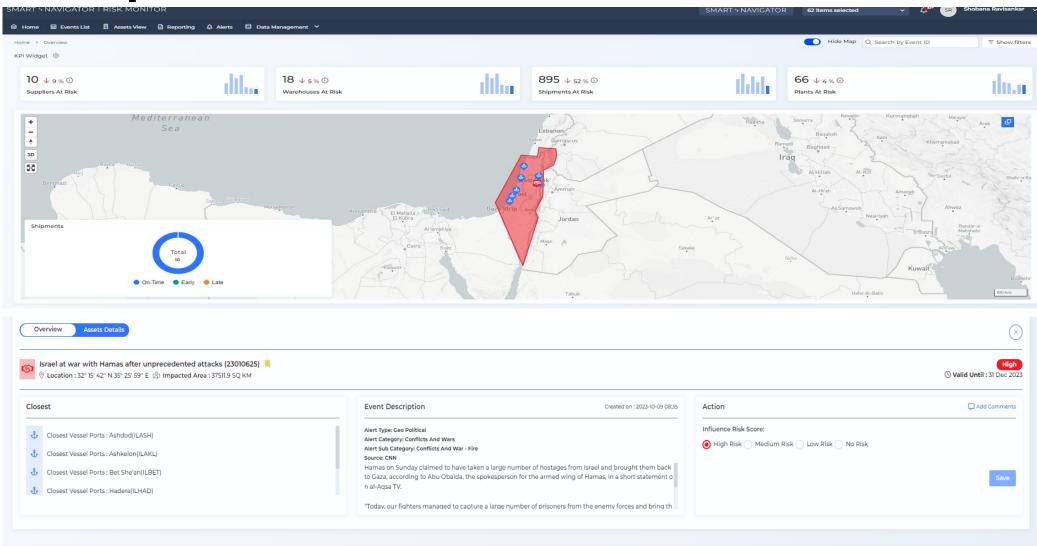


#### n = 285, Non-Executive Board of Directors

Q06. Please tell us about your organization's top 5 strategic business priorities for the next 2 years (2024/2025). Source: 2024 Gartner Board of Directors Survey on Driving Business Success in an Uncertain World Note: Showing Top 10 only

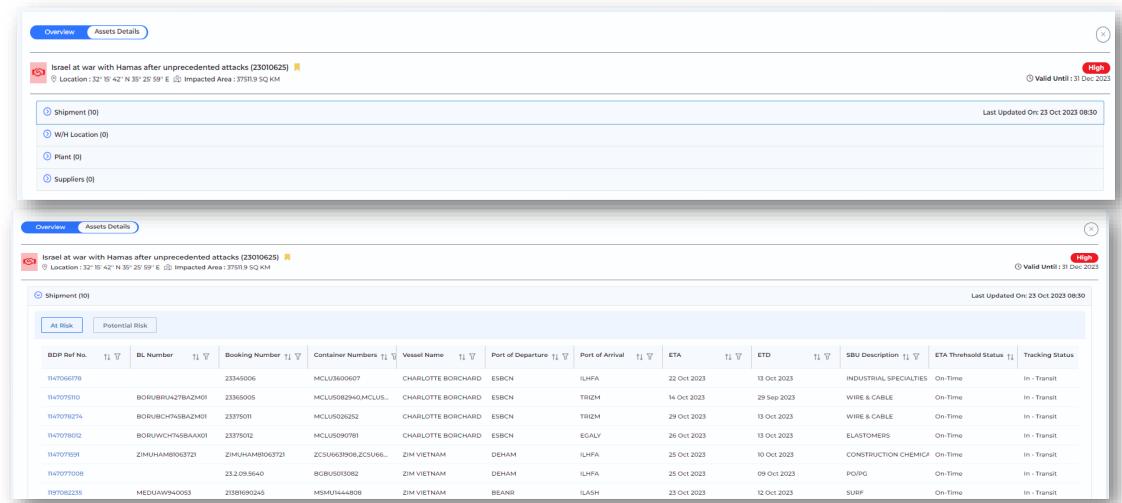


## **An Example: Israel-Hamas Conflict**

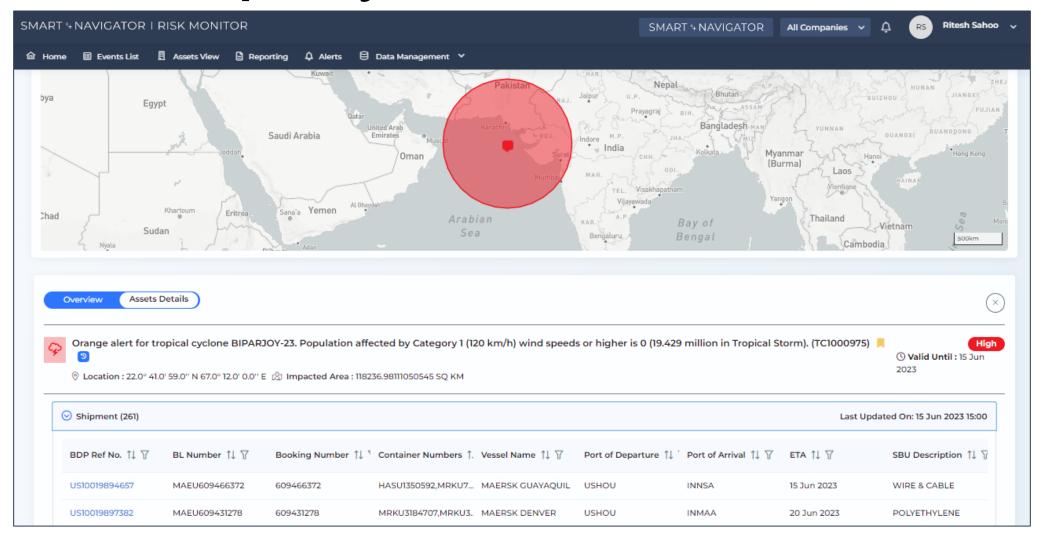




## Israel-Hamas Conflict: View of Impacted Warehouses/Plants/ Suppliers/Shipments

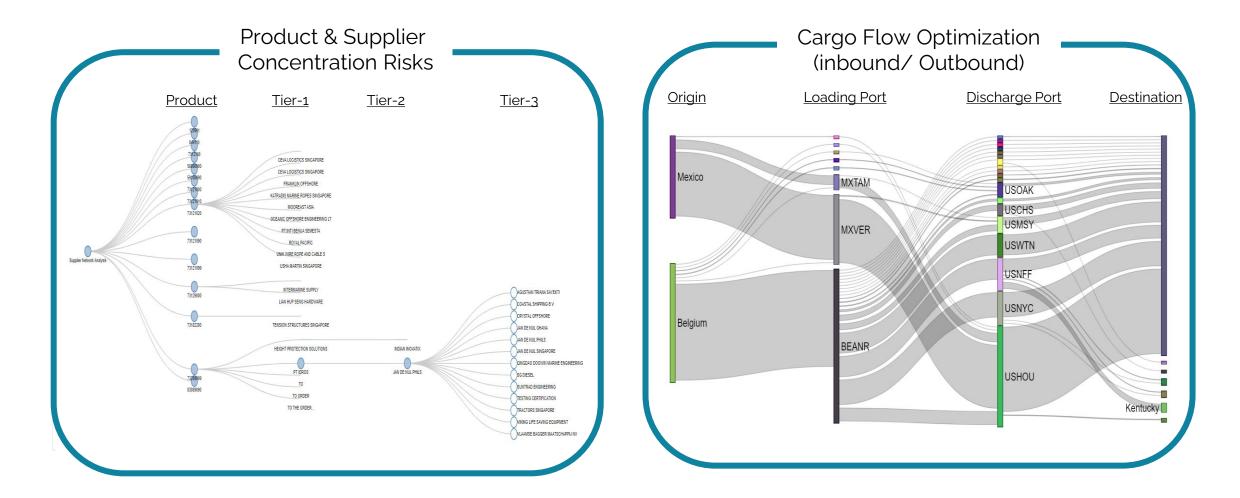


## **Another Example: Cyclone in Pakistan**





## An Example: Supplier & Compliance Risk Analytics





## **Supply Chain Risks Analytics & Mitigations**

## Level 3 [Macro Economic]

Raw materials risks due to commodity price fluctuation & shortages and energy prices → risk hedging & management

#### Level 2 [Micro Economic]

Supplier risks (multi-tier (1-N)) due to country & supplier concentration / compliance → product, part & material relationship, spend & alternative suppliers

Level 1 [Intra Company]
Operational risks due to vessel
delay, port congestion, severe
weather, labour shortages, strikes,
etc. → monitoring of events and
risks at supplier, product, material
or shipment level & alternate multimodal routes



## **Digital Twins**



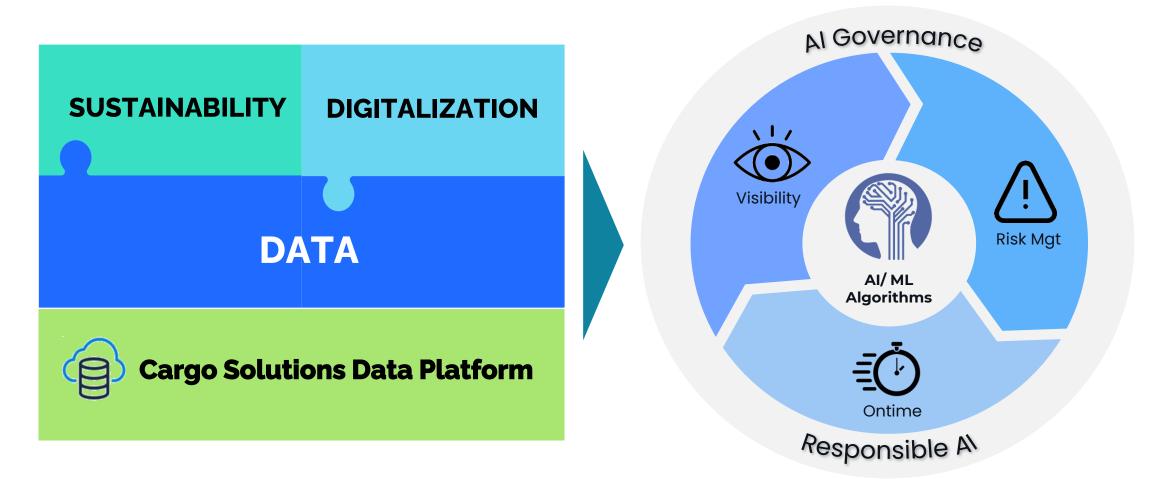
- Forecasting
- 2. Optimization
- 3. Simulation (what-if)

**Risk Monitor** 

(Visibility + Predictability + Sustainability)



# Cargo Solutions Data Platform Provides the Foundation for Data Science Powering Sustainability & Digitalization Apps





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## A Strong Data Governance Framework is Also Essential to Support the Various Digital & Data Initiatives

