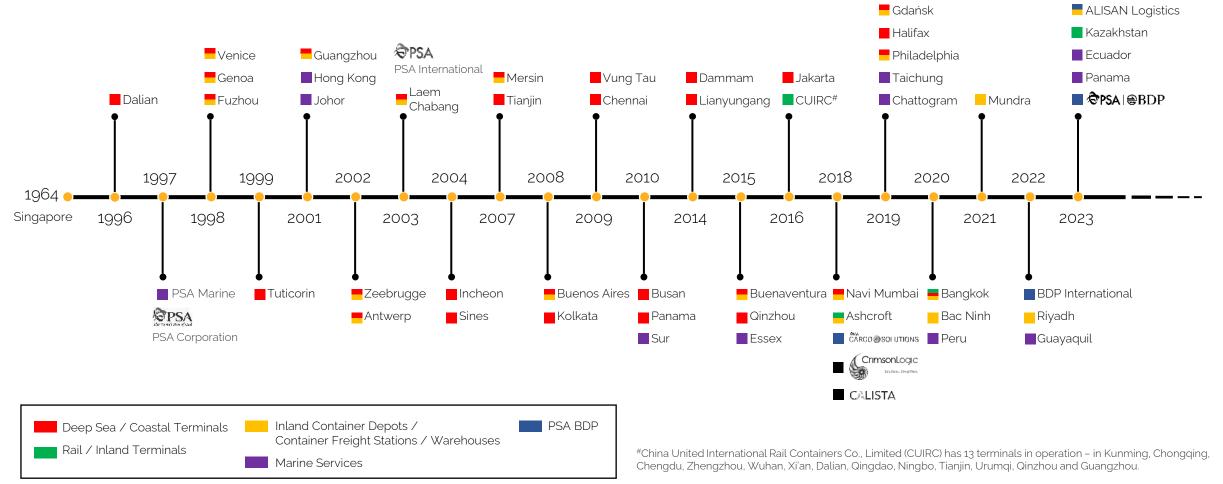


Intermodal Africa 2023 Cotonou, 30<sup>th</sup> November 2023

Mike Formoso Vice President Group Business Development

## **PSA Milestones**

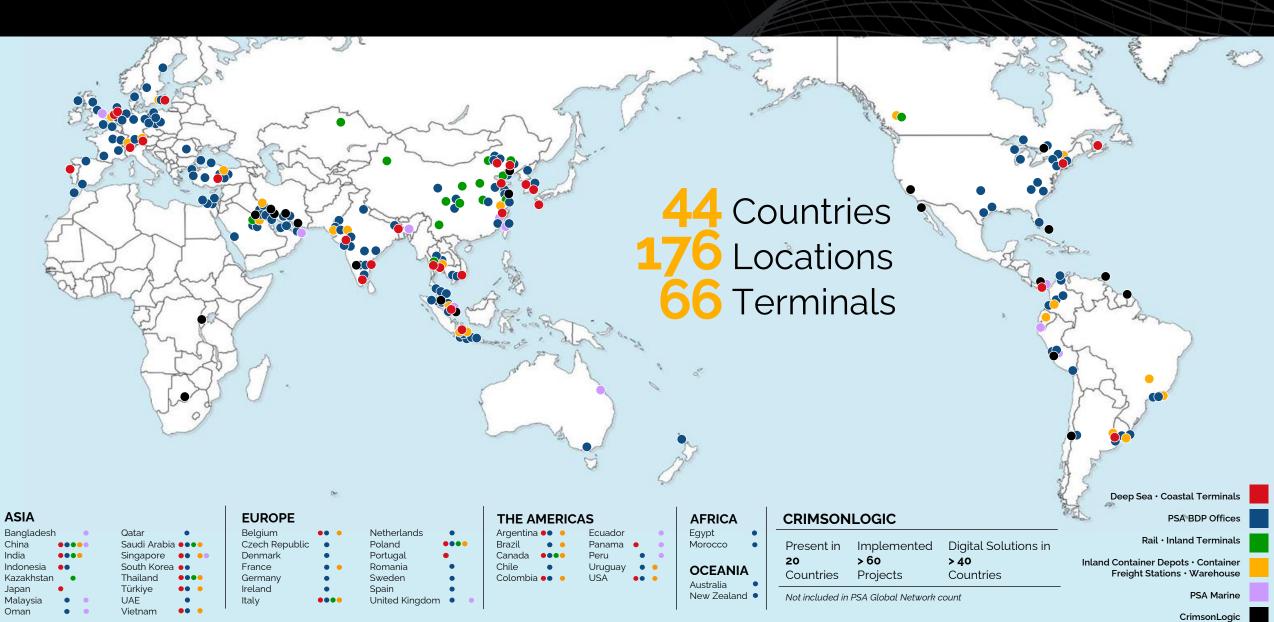
## Ports and Cargo Solutions



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# **PSA International Global Network**



## PSA International **Group Highlights**

Group Revenue

Operating The World's Busiest Transhipment Hub

**PSA Singapore** 

Two Classes of Business

Ports 86% 14% Cargo Solutions

Present in

6 of 20

Top Global Ports

1.75M Shipments

Rated

by Moody's

# 50K Staff Globally

Deep expertise in supply chain management, logistics, digital, marine services

90.5M TEUs

1 in 10 containers passed through a PSA terminal in 2022



**Ports** 









Your Partner In Ports & Supply Chains





Cargo Solutions





Data & Digital Solutions

**DRIVING SUSTAINABILITY** 

**FOSTERING INNOVATION** 

STRENGTHENING CULTURE & LEARNING



# **Top Global Port Operator in 2022**

Based on Equity Adjusted Throughput



Credit: Drewry's Port Operator Ranking

# **Unrivalled Strengths**



### **Vast Connectivity**

 Enhancing connectivity to major international markets



### **Diverse Management Experience**

- Mega-port experience and operational best practices
- Highly competent in managing complex customised end-to-end logistics and supply chain requirements



### **Deep Expertise in Port Development**

- Optimised Port design and construction
- Investment in state-of-the-art cranes and equipment



## **High Asset Productivity**

Leveraging on Technology and Training

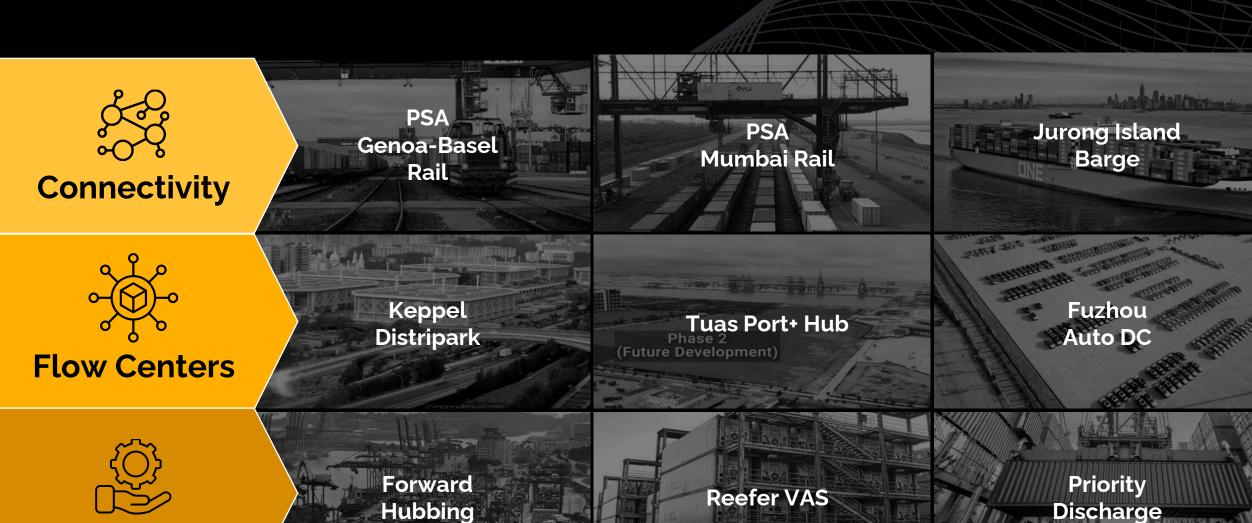
## Tuas Mega Port Will Handle 65M TEUs Annually by 2040s

- Fully automated, intelligent and sustainable port
- First phase opened on 1 September 2022
- Achieved 1 million TEUs within 6 months
- 66 berths spanning 26km
- Capable of handling container ships up to 24,000 TEUs
- The nexus of a well-integrated Tuas ecosystem
- Concurrently developing <u>Tuas Port+ Hub</u> for efficient cargo flow



# **Looking Beyond Ports**

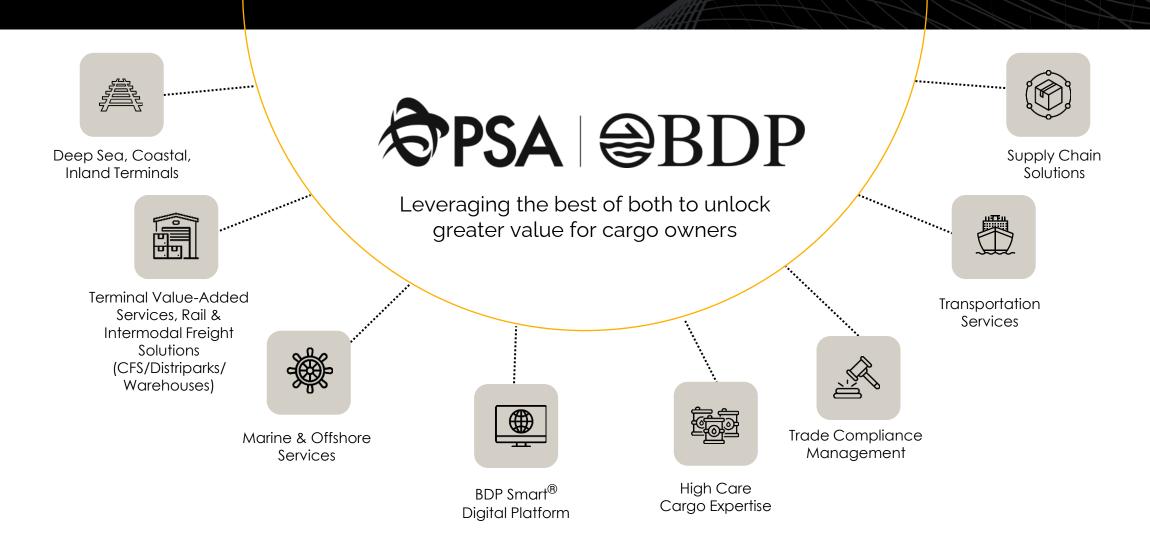
To create Port+ value



**Services** 

# **Expanding PSA's Suite of Services**

With PSA BDP





# **PSA BDP Global Network**



# From Cargo To Connections







**Chemicals** 





**Consumer & Perishables** 





**Life Sciences & Healthcare** 







## **Made For Trade**

## Comprehensive Cargo Products and Solutions

## **PRODUCT SUITE**



## **Supply Chain Orchestration**



**Transportation Solutions** 



## Trade Management & Customs



Port+ **& Connectivity** 



## Contract **Logistics**

- Lead Logistics Provider (LLP)
- 4th Party Logistics (4PL) via **BridgeNet Solutions**
- Ocean
- Air
- Road
- Rail
- Barge

- Regulatory Consulting
- **Product Classification**
- Preferential Origin
- Compliance Services
- Customs House Brokerage

- Forward Hubbing
- Multimodal Logistics
- Terminal Value-Added Services
- Flow Centers

- Warehousing
- Value-Added Services
- Distribution

## **Proven & Trusted Partner**

For Smart, Sustainable and Resilient Supply Chains

#### **Chemicals** LANXESS Dow DSM **D-BASF** THE LINDE GROUP 📜 HEXION **BRENNTAG** ے زحال*ہ ک* Lubrizol \* lyondellbasell CORTEVA SunChemica a member of the DIC group

Life Sciences & Healthcare











WuXi Biologics



CORETRUST











#### **Consumer & Perishables**



#### **Industrial**





































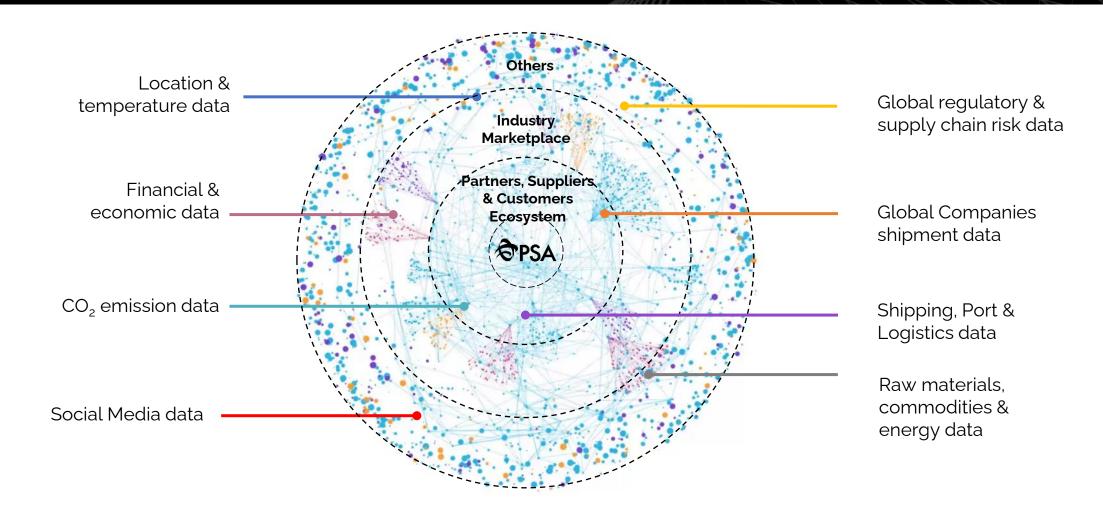






## **Global Trade is Digitalising**

PSA is aggregating 'Knowledge' from Diverse Data Sets and Sources



# **Optimising Supply Chain Ecosystem**

with In-house Digital Solutions

# Terminal Operator







# Terminal (Enterprise) Operating Systems

- End-to-End Solution for PSA Terminal Ops
- Terminal Automation and Optimisation
- Situation Awareness, Monitoring by Exception
- Connected Platform

## **Port Users**











#### **Local Community Systems**

- Community workflow
- Analytics, Notification
- Multiple Ports/Terminals
- Marine Services

## **Cargo Owners**

**SMART + SUITE** 



#### **Supply Chain Platforms**

- Cargo Logistics, Inventory Streamlining and Trade Aggregation
- Cross Integration across adjacencies

# **Global Community**

sgtradeX EventHub

#### **Data Exchange**

 Digital ecosystem between businesses, governments, and trade communities.





2030 2040

Reduce absolute carbon emissions by

50%\*

Reduce absolute carbon emissions by

75%\*

2050

CARBON

# Our Approach Towards **Decarbonisation**

PSA's Climate Response Management System (CRMS) aligns PSA's climate-related initiatives, focusing on four key areas: Greenhouse Gases, Energy, Water and Waste.

## **The Greenhouse Protocol**

SCOPES	<b>Direct Emissions</b> From owned or controlled sources	Indirect Emissions From purchased energy	All other indirect Emissions From the value chain including both upstream and downstream emissions
OBJECTIVES	Reduce and switch out from using diesel to reduce emissions	<ul> <li>Reduce electricity consumption</li> <li>Use renewable energy sources</li> </ul>	Promote green transportation
PSA'S INITIATIVES	<ul> <li>Electric Yard Cranes (RMG, eRTG)</li> <li>Battery Powered AGV</li> <li>Dual-Fuel LNG Tug</li> </ul>	<ul> <li>Super Low-Energy Building</li> <li>Renewable energy projects</li> <li>Smart Grid/Battery Energy Storage System</li> </ul>	<ul><li>Supply chain orchestration</li><li>Transportation services</li></ul>

# Creating a Green Corridor - 6.25MW Open Access Solar Plant for PSA Mumbai

- Startup end 2023 : 70% of power at 2022 consumption and expanding to 10MW in 2023
  - Cuts CO2e emissions by 10,000T p.a
  - Located 700km away in Beed, Maharashtra.







#TeamPSA

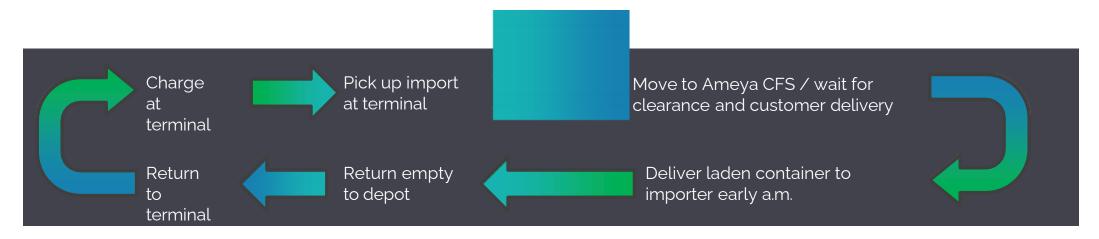
## **GREEN PARTNERSHIPS**

Q1 2023

PSA Mumbai inked a partnership with renewable energy platform O2 Power to establish a **solar farm**. When completed, the farm will **provide nearly 70% of PSA Mumbai's power**, which reduces the terminal's carbon emissions by a projected 10,000 tonnes a year!

# Creating a Green Corridor from PSA Mumbai to Customer

Cheaper open access power allows electric trucks to be competitive with diesel trucks for a 120km round trip



## Sustainable transport solutions from Q1 24

- Owned/operated by PSA BDP India, power by PSA Mumbai and M&R by PSA Ameya.
- JNPA supports priority access for EVs.





Global Supply Chain Orchestrator



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