

Enhancing Efficiency, Sustainability and Innovation

Oct 01, 2024



Experiences

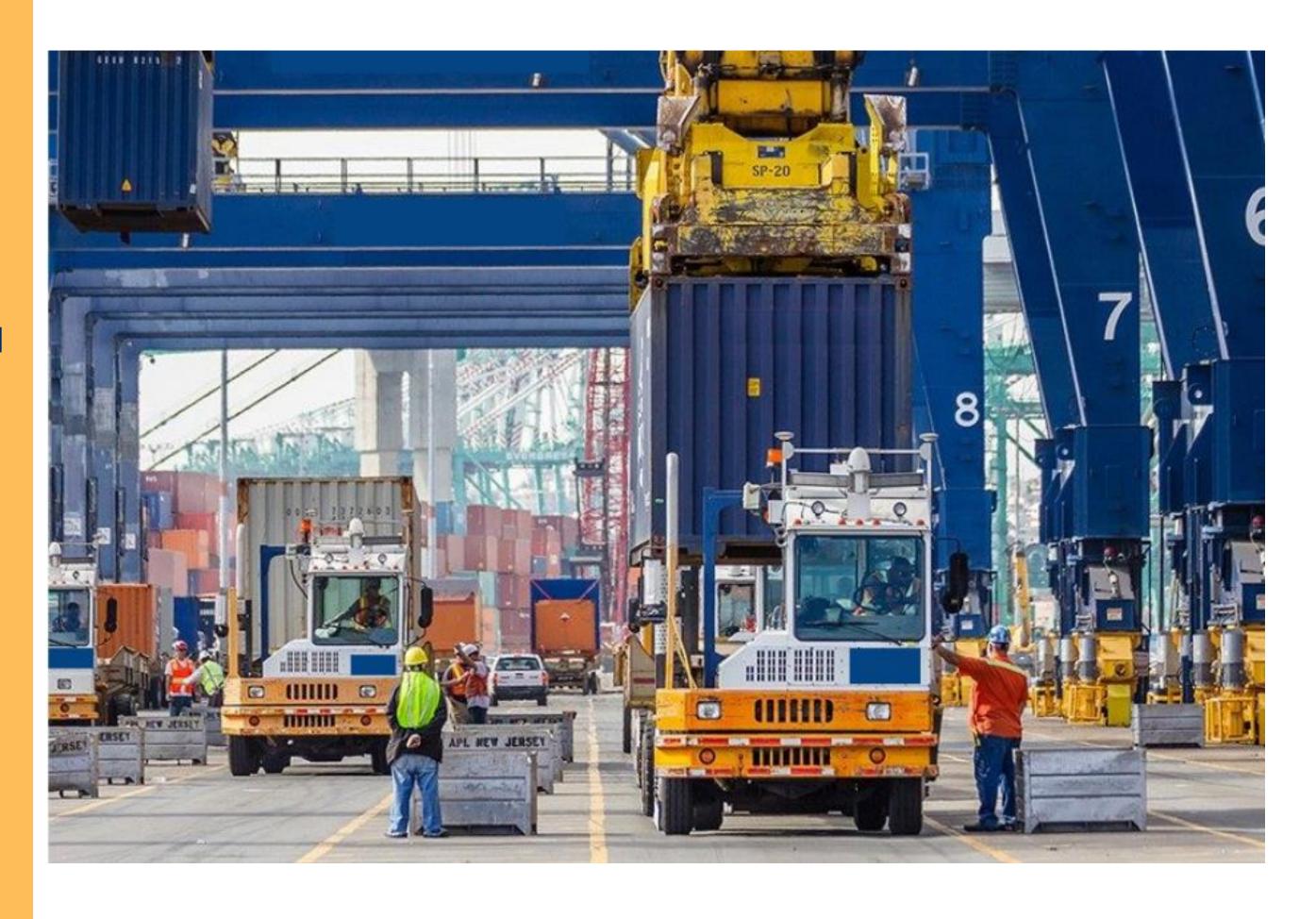
Knowledge

Constant changes

Resilience

The Containers Terminals

- High volume of cargo and operations.
 - 2023 8.4m **TEU**s
 - 2024 9.4m TEUs
- Multiple tasks are performed at the same time.
- To ensure efficiency, move more cargo and achieve productivity.

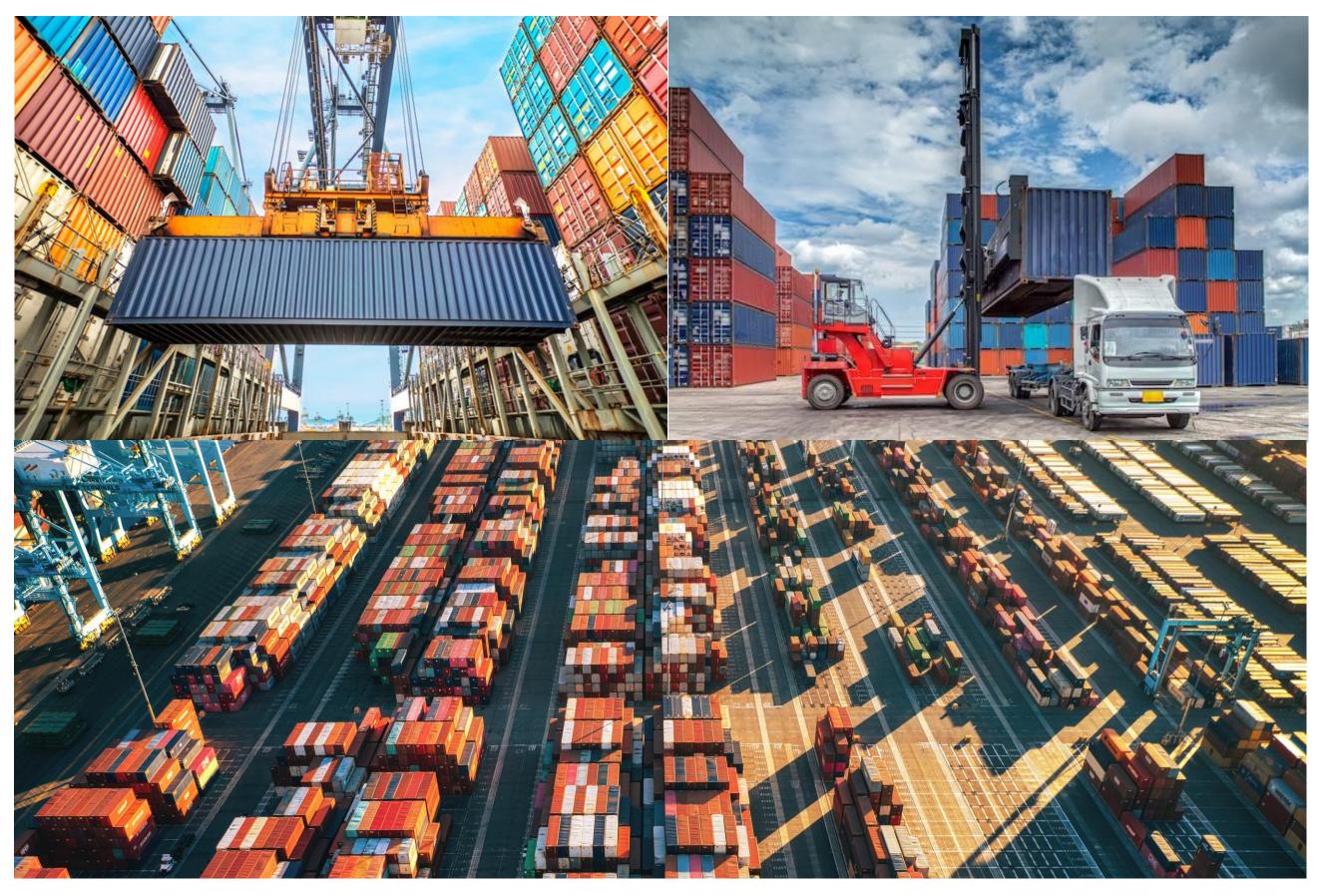


Quick review

Key activities:

- Operation of Gantry Cranes. Loading and uploading shipping containers.
- Truck Movement.

 Berths and yards
- Worker Activities.
 Guiding truck and operating heavy equipment.



Don't get too comfortable with the risks

Potential Hazards

- Equipment failure or operator error.
- Collisions or accidents.
- Miscommunication or inattention.
- Improperly secured loads.

Advanced technology and innovation

These activities require safety protocols and constant supervision



Not only for safety, also to meet other container handling requirements



Efficient Equipment and Technology

- Equipments
- Funtionalities
- Outdated 2 o 3 years



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Safety and Security

Al-integrated Yard Surveillance System

- 1. Focuses on ensuring the safety and security.
- 2. Use cameras and Al to identify pedestrians.
- 3. Potential Hazards:
 - Identify unauthorized staff in restricted areas.
 - Alerts to prevent container contamination.



Sustainability Practices

Reducing carbon footprint.

- Transition to electric equipment and vehicles.
- Implement renewable energy sources like solar and wind power.
- Use energy-efficient technologies and practices.
- Increase the use of renewable electricity.

Waste and water management.

- Promote recycling and reuse of materials.
- Reduce landfill waste through better waste segregation and processing.
- Optimize water use and reduce consumption.
- Implement water recycling and conservation measures.



Sustainability Practices

Reducing carbon footprint.

Objectives:

- Achieve Net-Zero by 2050: Aligning with the Science Based Targets initiative (SBTi).
- Reduce Scope 1 & 2 GHG Emissions by 54.6% by 2033: From a 2021 base year.
- Reduce Absolute Scope 3 GHG Emissions by 32.5% by 2033: From a 2021 base year.

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Community and Stakeholder Engagement

- Supplier Code of Conduct.
- Community Support.
- · Local Sourcing.

Novel solutions

Allowed us to constantly generate innovative solutions to optimize cargo handling processes





These trucks are designed to enhance efficiency in cargo handling.

Autonomous trucks (ATs)

- Sensors and Cameras
- Radar and LiDAR
- Artificial Intelligence (AI)
- Connectivity (GPS/V2X)

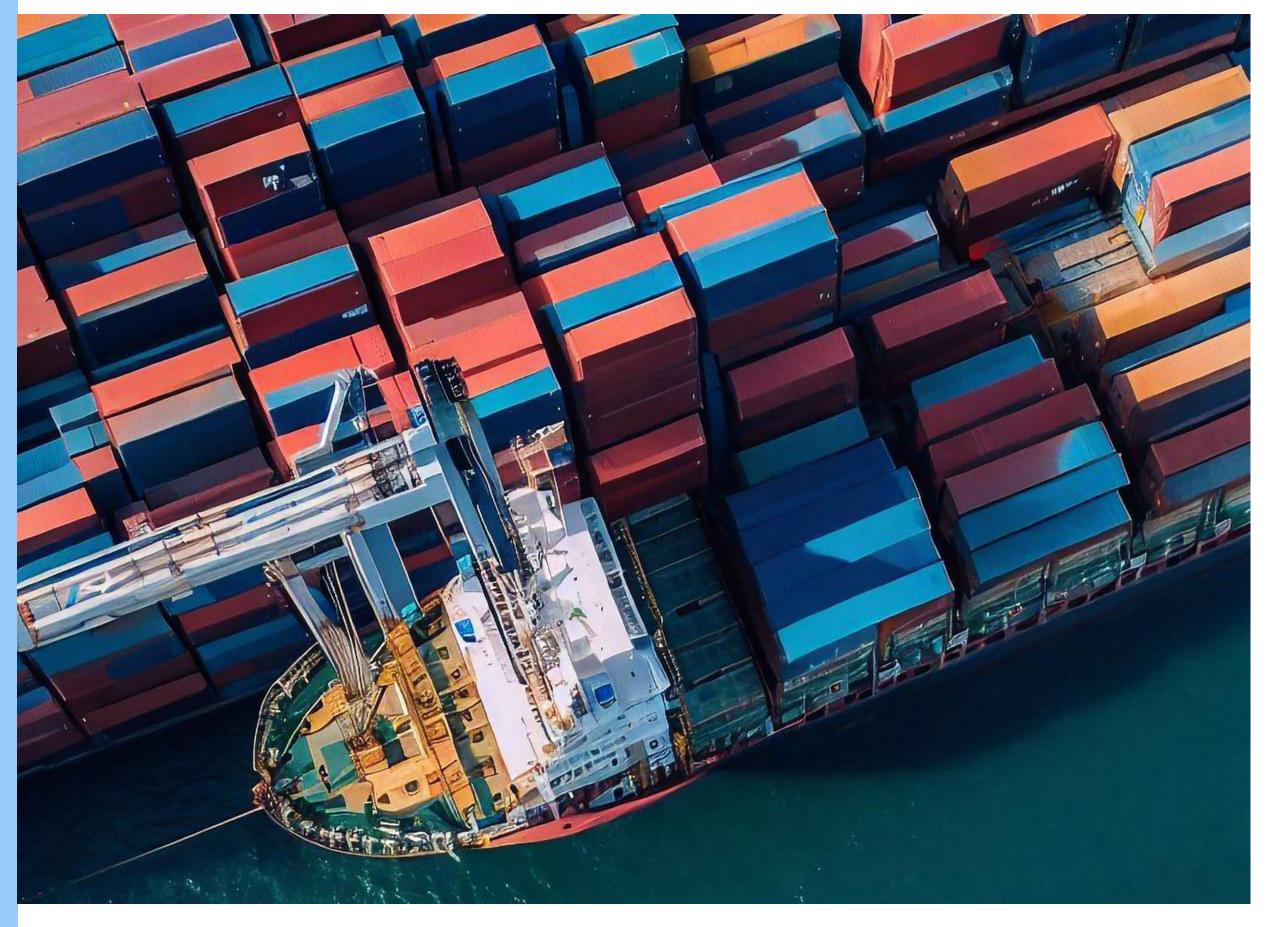


Enhance efficiency, productivity and safety improvement.

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Terminal Operating System (TOS) Veronica

- Al Integration
- Real-Time Data Processing
- Enhanced Coordination
- DocumentationDigitalization



Designed to maximize productivity and efficiency, making it a crucial tool for modern port operations.

Gate Automation system

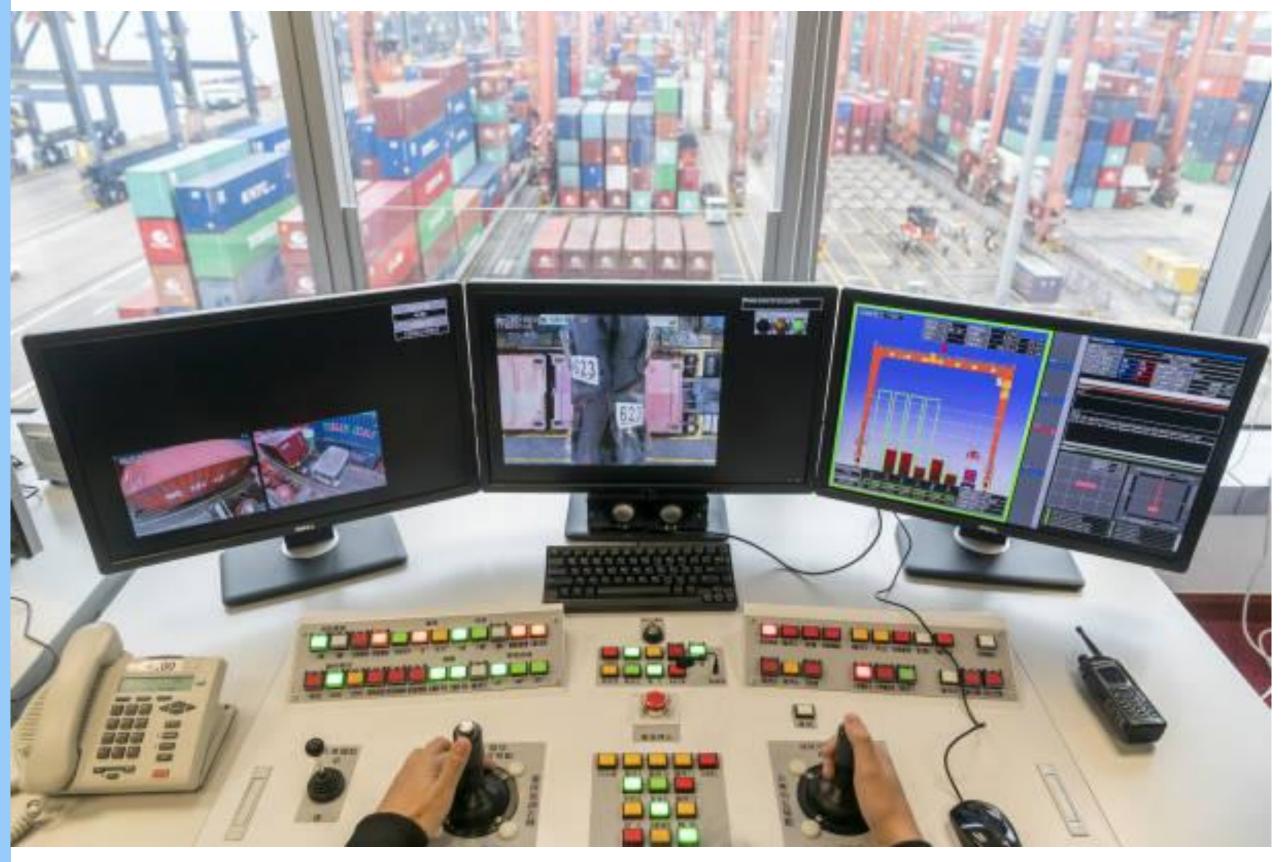
- Driver Identification System
 (DIS) Registration and
 Identification.
- License Plate Identification
 System (LPIS) Optical
 Character Recognition
 (OCR)
- Container Number
 Recognition System (CNRS)
 - OCR for Containers



designed to improve the efficiency and security of port operations

Remote Operations Service Architecture (ROSA)

- Remote Control QC,
 AGVs, RTGs.
- Real-Time Monitoring
- Advanced Sensors and Cameras
- Integration with TOS
- Enhanced Safety Features



ROSA represents a significant step forward in port automation, enhancing both efficiency and safety.



Energy Management and Electrification

All new equipment purchases will be fully electric.

- Electric Equipment
- Renewable energy integration.



HIGHLIGHTS

Hutchison Ports emphasizes its dedication to creating a safe, inclusive, and sustainable workplace while conducting business ethically and transparently.

OUR ENVIRONMENT



Science Based Targets initiative (SBTi) approved our near-term and net-zero targets



-10.6% in CO₂ intensity, compared to 2022



-19.4% in Scope 1 & 2 emissions, compared to 2021 baseline



Extended coverage of purchasing green electricity



-5.5% in Diesel **Consumption per TEU**



Developed BU level decarbonisation plans



OUR PEOPLE



Strengthen enforcement of the **Global Minimum Safety Standards** (GMSS) 12.11 on pedestrian safety

Over 1,500 participants in **Global Connect**



88% of the global network participated in **Climate Fresk Card Game**







Planted

10,300 trees

and Interacted with

3,100 students

under Go Green x Dock School campaign



OUR BUSINESS



Reduction in global inventory level



Established Shared Services Centre



New Terminal Operating System - Veronica



Gate automation in **Hutchison Ports Thailand**



Implementation of Autonomous Trucks (ATs) in Hutchison Ports Port of Felixstowe (United Kingdom), Hutchison Ports **ICAVE (Mexico) and Hutchison Ports Thailand**



