

Data-Driven Decisions for Sustainable Supply Chains

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Port Data as a Catalyst for Efficient and Sustainable Supply Chains

The value of port data can be understood through four connected dimensions



Operational data for efficiency

Operational port data enables just-in-time arrivals, optimized equipment use, and lower emissions per container



Risk-based controls

Sharing port data early helps customs clear low-risk cargo faster, reduce inspections, and cut emissions



End-to-End Supply Chain Efficiency

End-to-end cargo data enables efficient logistics planning, bottleneck reduction, and data-driven investment in green infrastructure



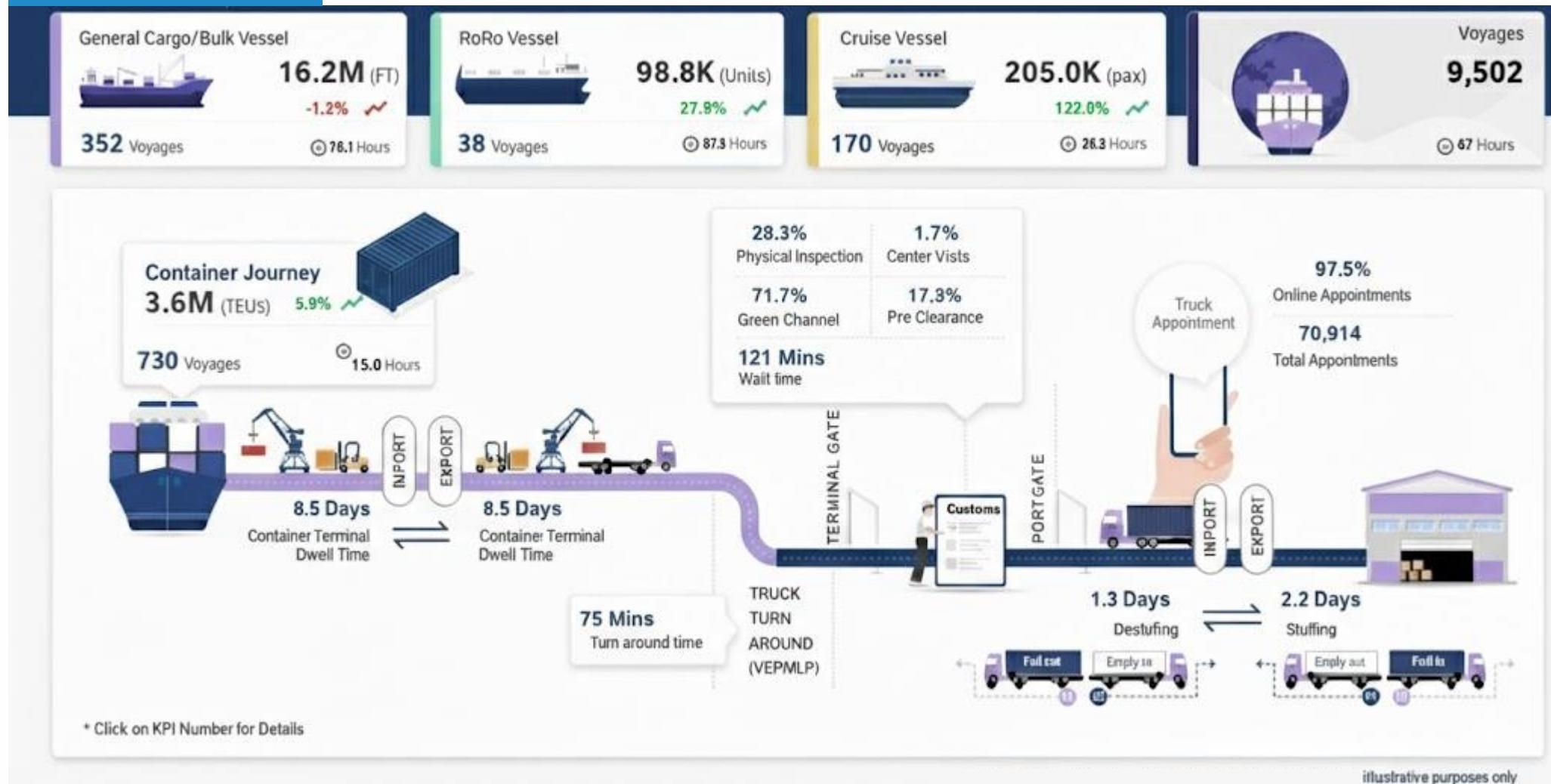
Policy, Planning and Reporting

Port data supports policy decisions, tracks emissions, and measures progress against sustainability and ESG commitments



Case Example – Data-Driven Visibility Across the Container Journey

ILLUSTRATIVE





Data Sharing That Enables Safer And Greener Trade

1 Pre-Arrival Risk Intelligence

- Vessel and voyage data
- Cargo and manifest data
- Fuel type and emissions profile

2 Operational & Movement Data

- Container and cargo movement data
- Coordinated inspection scheduling

3 Environmental Data

- Cargo and environment risk indicators
- Emissions and energy consumption

4 Compliance Data

- Trusted Trader / AEO Data
- Logistics and hinterland data



Benefits

Improved risk identification

Faster clearance

Lower congestions and emissions

Reduction of duplicate efforts



Governance and Operating Arrangements Required for Effective Data-Driven Collaboration



Clear institutional roles and accountability



Joint operational processes (not just information exchange)



Shared performance management and incentives



Formal data-sharing agreements and legal frameworks



Standing coordination structures



Capacity building and change management

Technology
enables
cooperation, but
governance
makes it
operational





Thank you

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