

# Enable the Port of the Future

Caspian Ports & Shipping 2021 - Aktau, Kazakhstan  
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# What is the Future of Ports?

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**Driving change and future growth**

# The Supply Chain Industry is Evolving



**Digitalization**



**Cybersecurity**



**Cloud Based  
Products**



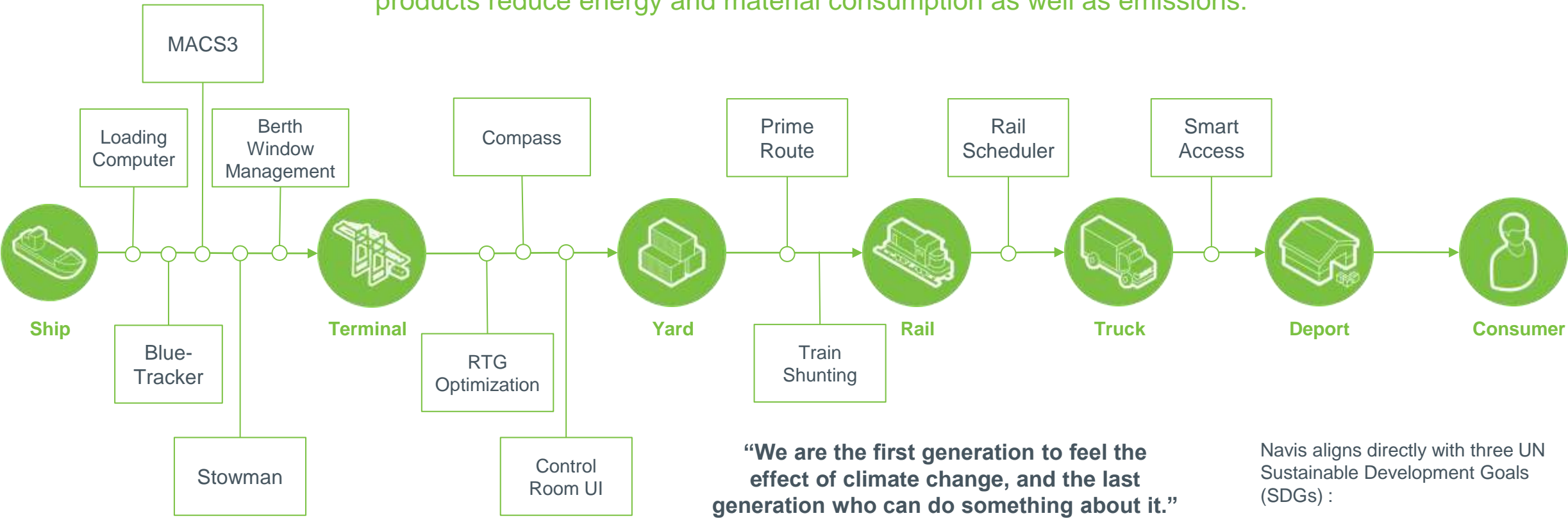
**Rail  
Consolidation**



**Last Mile  
Visibility**

# Simplicity, Optimization, and Sustainability

At every point of a cargo's journey, by creating operational efficiency, Navis products reduce energy and material consumption as well as emissions:



**“We are the first generation to feel the effect of climate change, and the last generation who can do something about it.”**

--  
Former United States President  
Barack Obama  
September 23, 2014

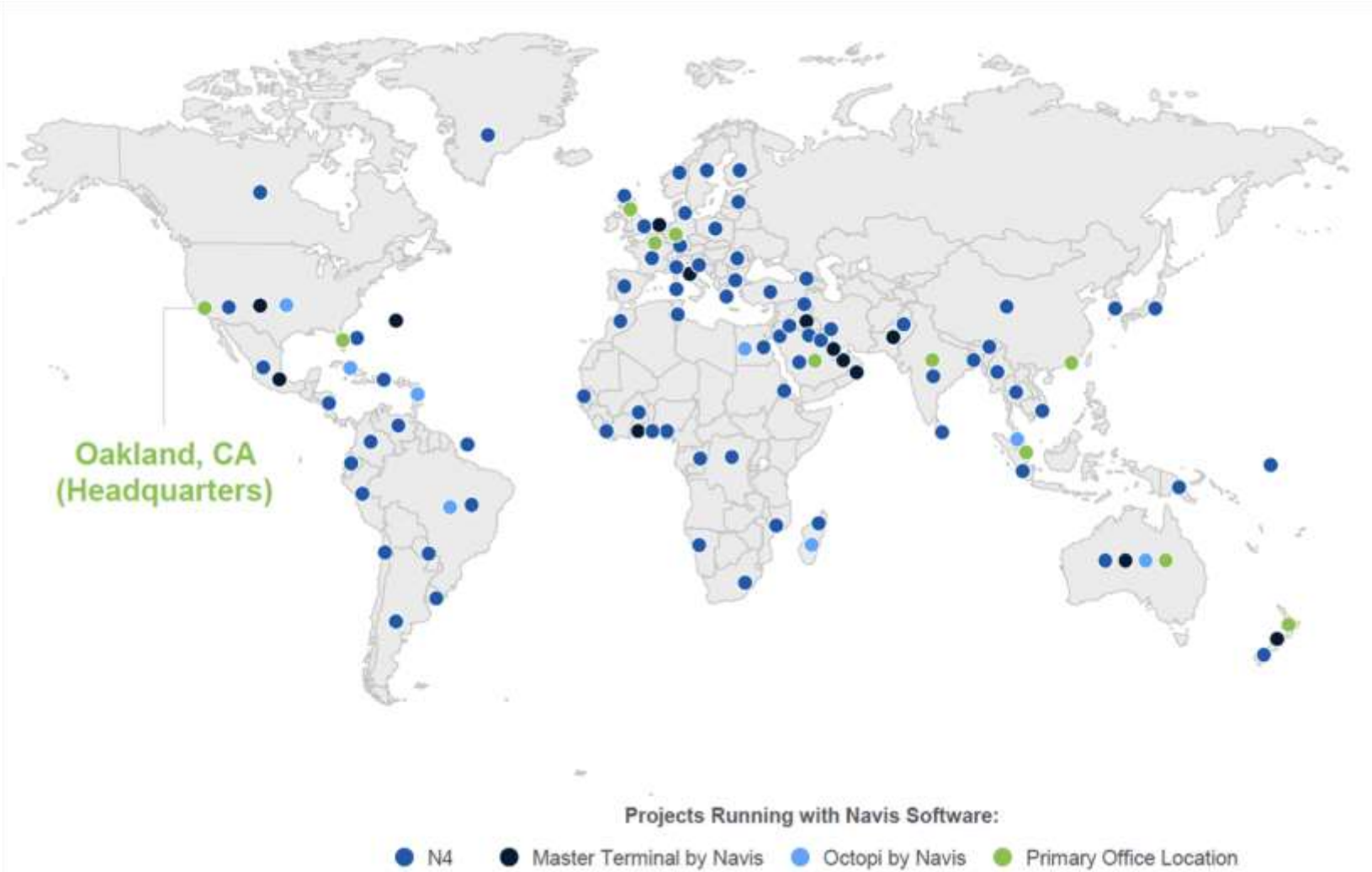
Navis aligns directly with three UN Sustainable Development Goals (SDGs) :



# Navis is the Partner of Choice for Clients Across the Globe

Making global trade smarter, safer, and more sustainable for everyone

- ~490 terminals in 80+ countries
- ~340 Vessel carriers and owners
- +40% Estimated share of world container throughput market
- 23 Offices Globally
- 600+ Employees
- 24/7/365 Customer support



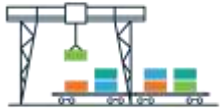
### Leading Automation Solutions



Terminal Solutions



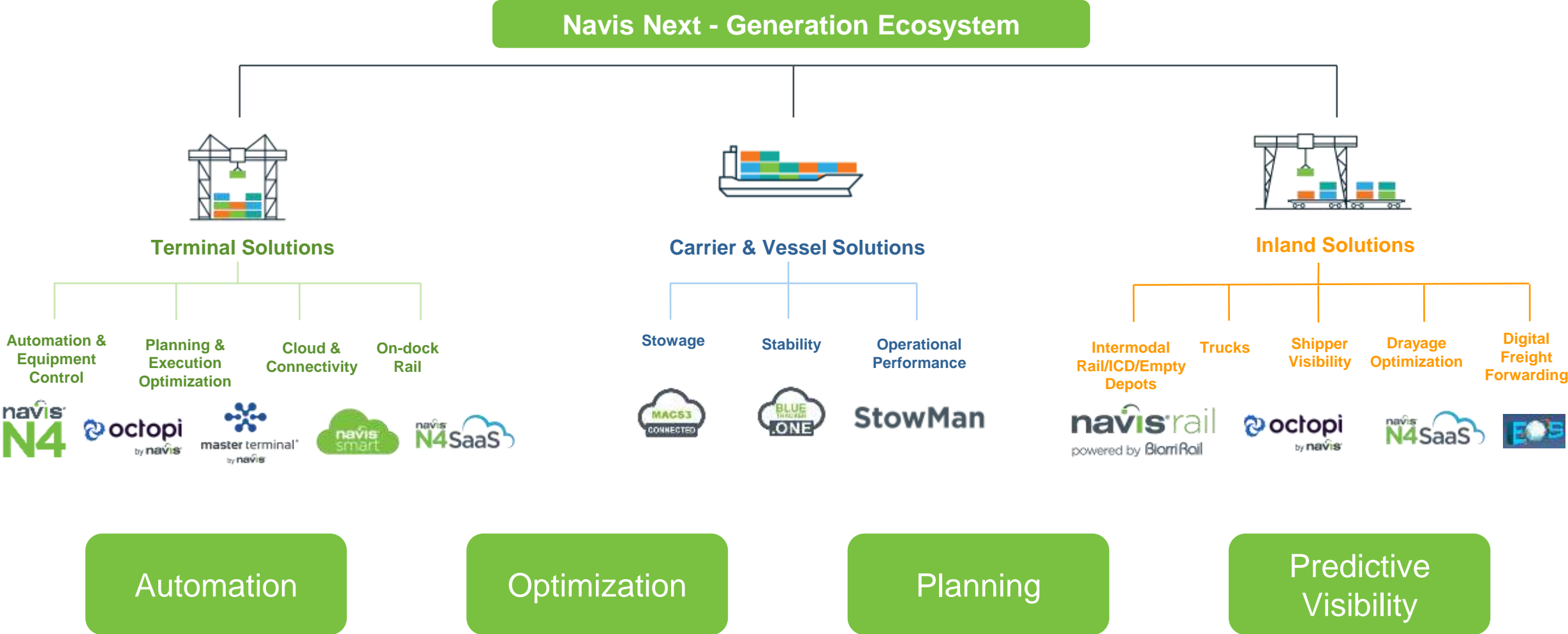
Carrier & Vessel Solutions

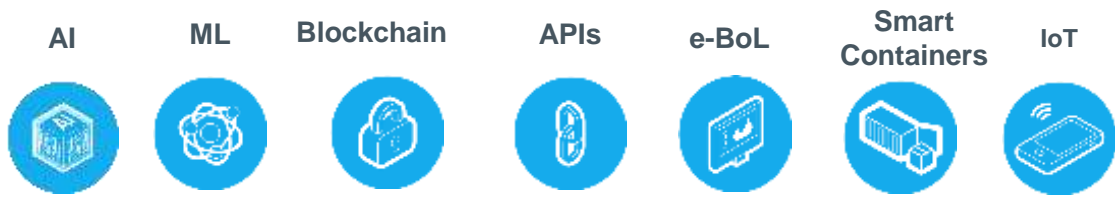


Inland Solutions

# Navis Vision and Strategy

Making global trade smarter, safer, and more sustainable for everyone





Innovative Technology



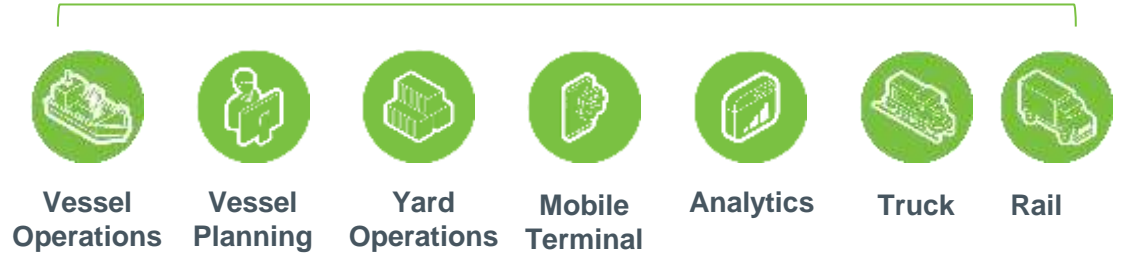
Continuous Optimization



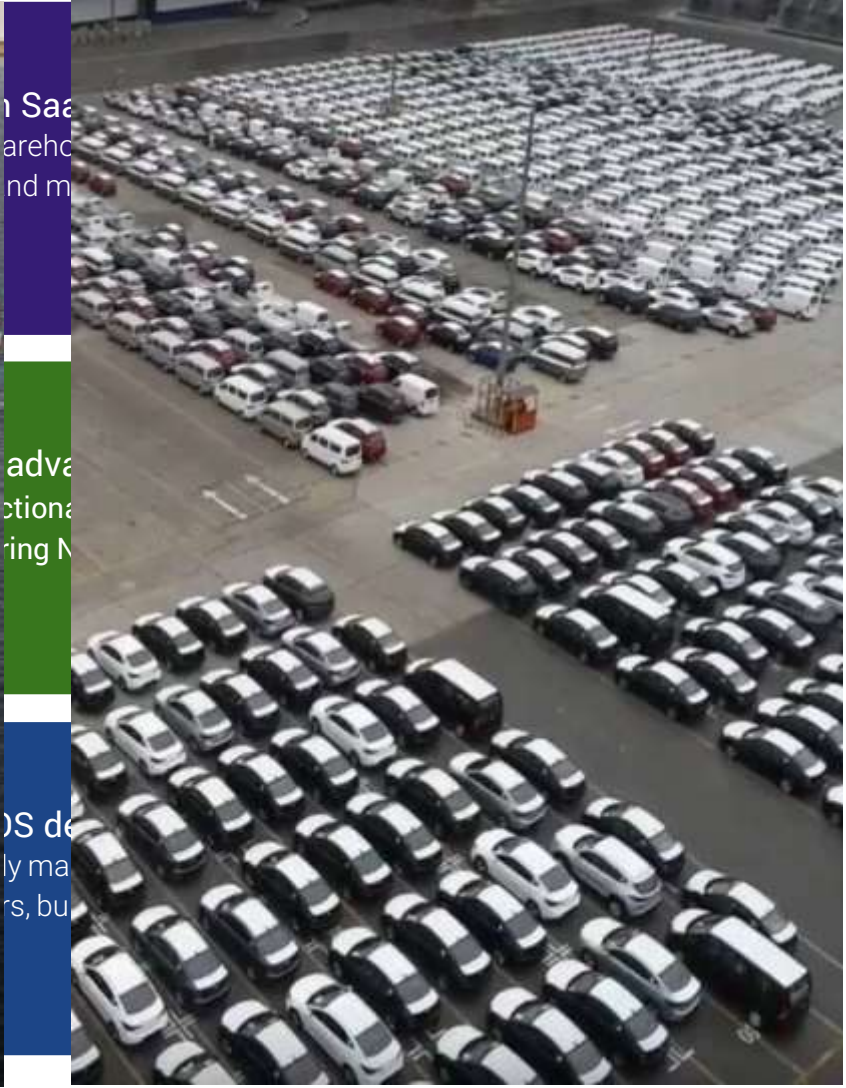
Next-Gen TOS



navis<sup>®</sup>  
SMARTSUITE  
Plug & Play Apps



# A TOS for All Terminals – a leader in General Cargo



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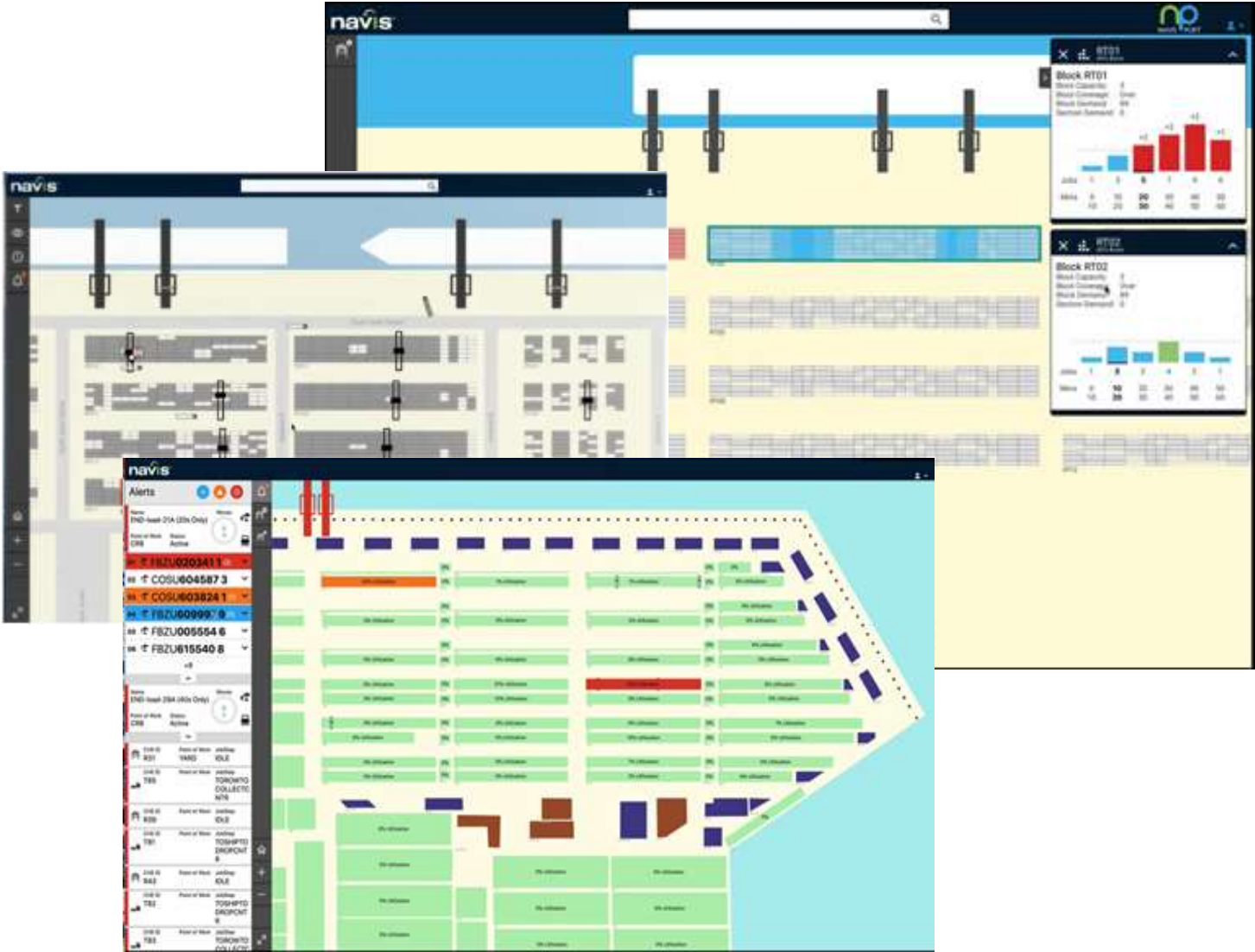
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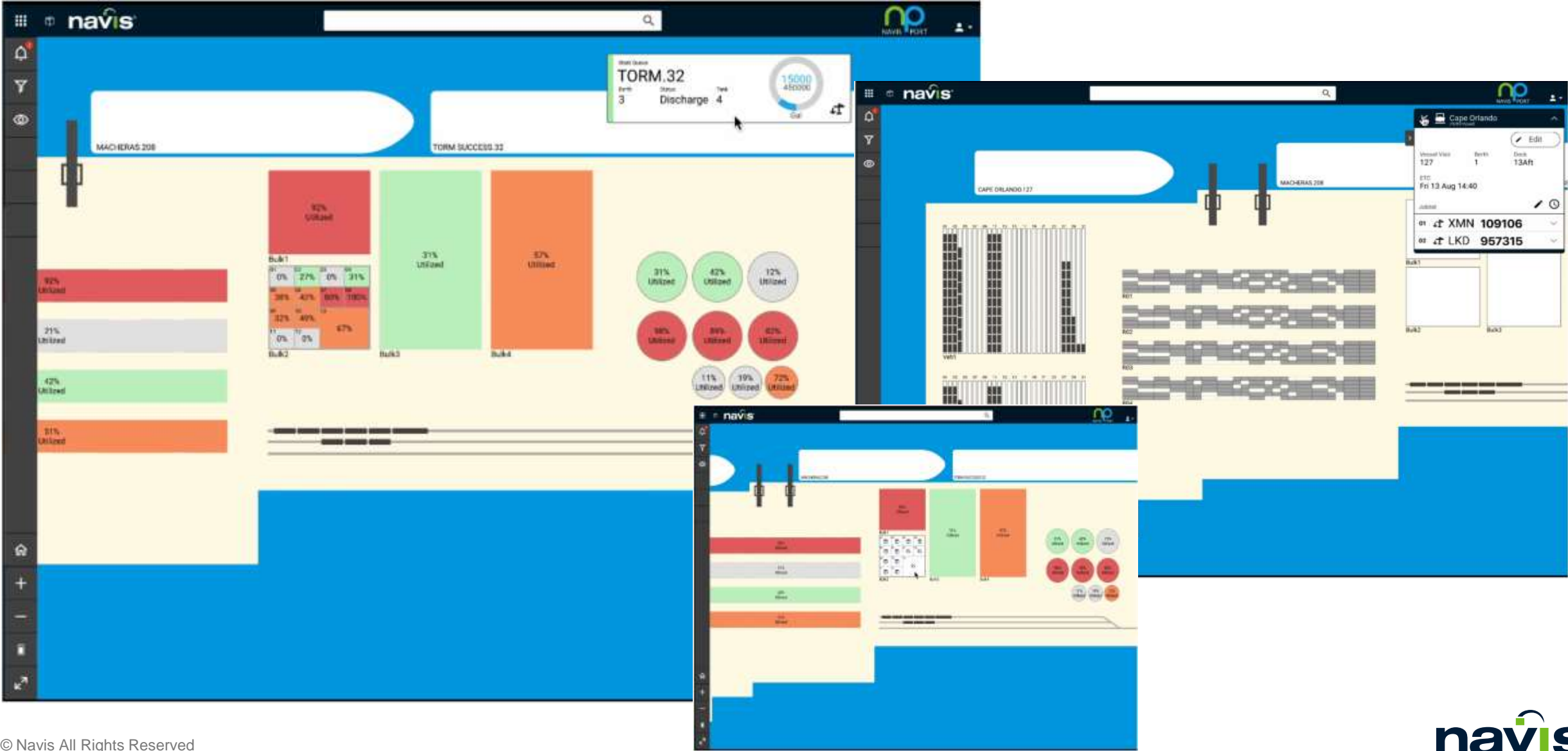


# Control Room – Maximum Utilization

- Real-Time Operations Visualization
- Demand Forecasting
- Alerts & Notifications
- Exception Handling
- Data-driven Decision Making
- Scenario Analysis
- Equipment Deployment Recommendations



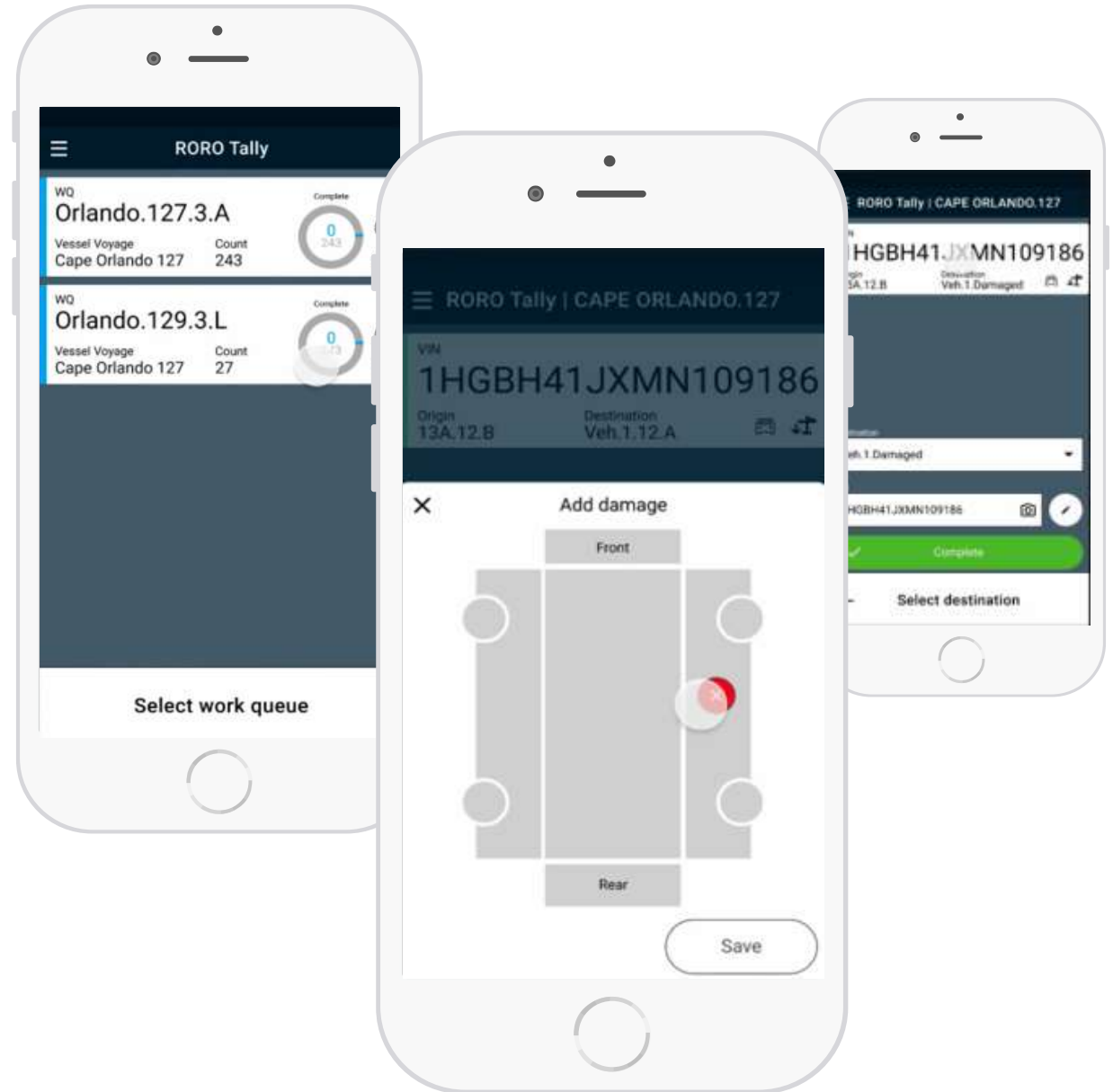
# Control Room – Mixed Yard





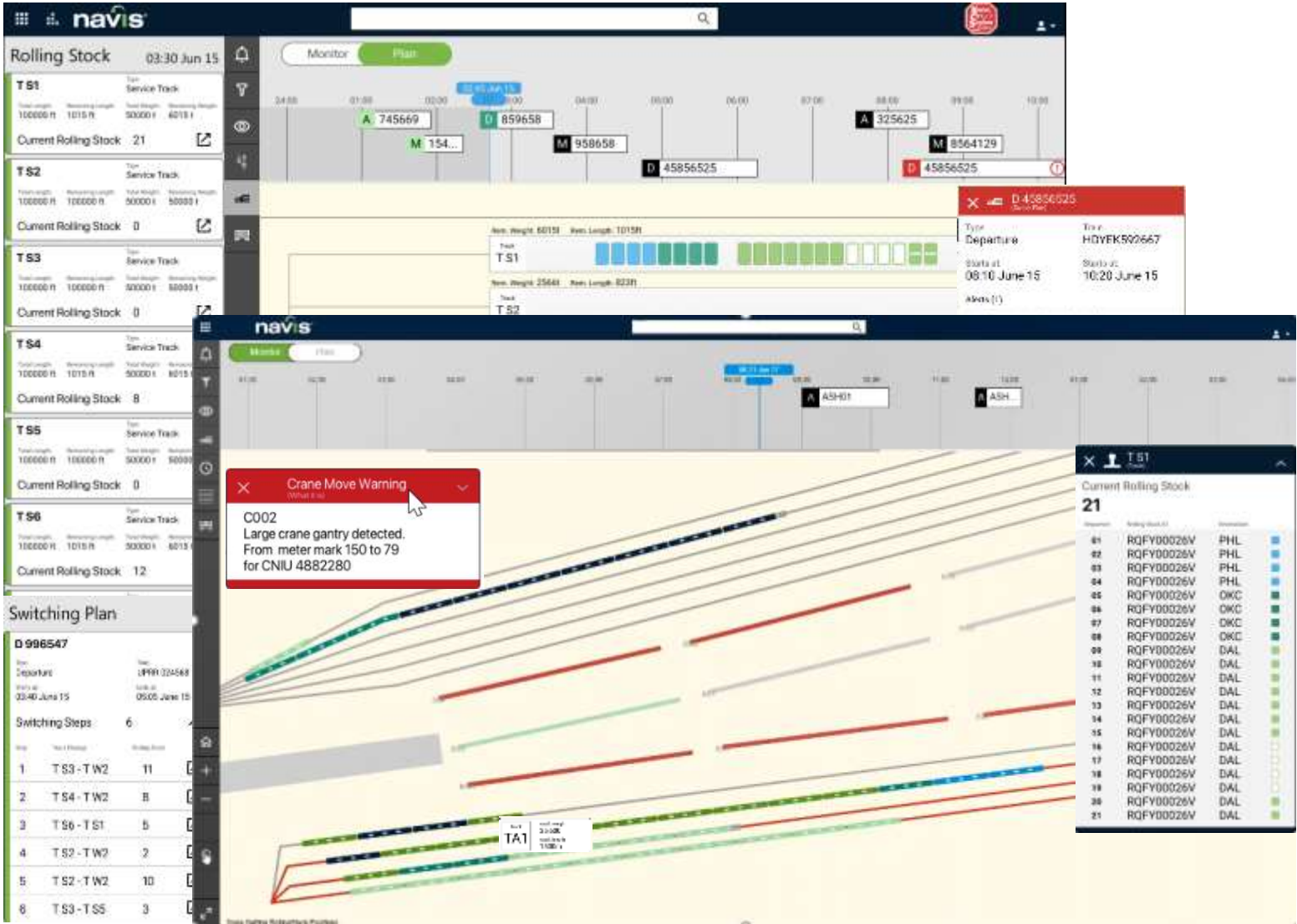
# Strategically Plan your Vehicles – RORO Tally

- Efficiently plan and execute RoRo moves on vessels and trains
- Record damages and Upload Pictures
- Optimized yard planning with dedicated lanes for individual vehicles



# Make the Most of Your Tracks – Rail UI

- Create shunting plans to maximize track utilization
- Quickly evaluate crane efficiency and react to potential problems
- Flexible and dynamic prioritization to meet ETD



# RailEye – Providing Data Visibility

The screenshot displays the RailEye software interface, which provides real-time data visibility for rail operations. The interface is divided into several key sections:

- Top Navigation:** Includes the 'navis' logo, a search bar, and the 'TransRussia' logo.
- Trains Overview:** A top bar shows 'Trains' with 'All' and 'Alerts' filters, and status indicators for 13 trains, 102 containers, 1 train, and 7 alerts.
- Train Details Panels:**
  - BHS 592667:** Status: In Transit, On Time. Arriving at Moscow (10:20p Mar 17). Departed from Velikiye Luki (07:45a Mar 14). Length: 10000 ft, Weight: 5000 t, # Containers: 300, Slot Utilization: 80%.
  - UWC 024568:** Status: In Transit, Delayed (-01:21). Arriving at Sankt-Petersburg (10:20p Mar 17). Departed from Vologda (07:45a Mar 14). Length: 10000 ft, Weight: 5000 t, # Containers: 300, Slot Utilization: 80%.
  - CFM 525694:** Status: In Transit, On Time. Arriving at Yaroslavl (10:20p Mar 17). Departed from Vologda (07:45a Mar 14).
- Map:** A central map shows the rail route connecting Sankt-Petersburg, Kirishi, Luga, Veliky Novgorod, Pskov, Vyschny Volochyok, Tver, Velikiye Luki, Rzhev, and Moscow. Each station is marked with an 'ETA' and a circular progress indicator.
- Cargo / Containers Panel (UWC 024568):**
  - JB Hunt: 28
  - Schneider: 26
  - Table with columns: ID, Type, Weight (t), Slot Pos.
  - Table Content: 26 rows of BICU 123456 7 (45R1, 100) with Slot Pos. KCR12345.AB1.
- Summary Panels:**
  - Locomotives:** 2
  - Railcars:** 18
  - Cargo/Containers:** 54
  - UWC 024568 Cargo Summary:** JP Hunt (28), Schneider (26)

Data Visibility & Transparency

Intelligent Planning

Ready for the Future

Exceptional User Experience

Shift towards Sustainability



RailEye



Rail Control Room



Ops View



Rail Control Room



N4/Master Terminal/Octopi



Smart Access

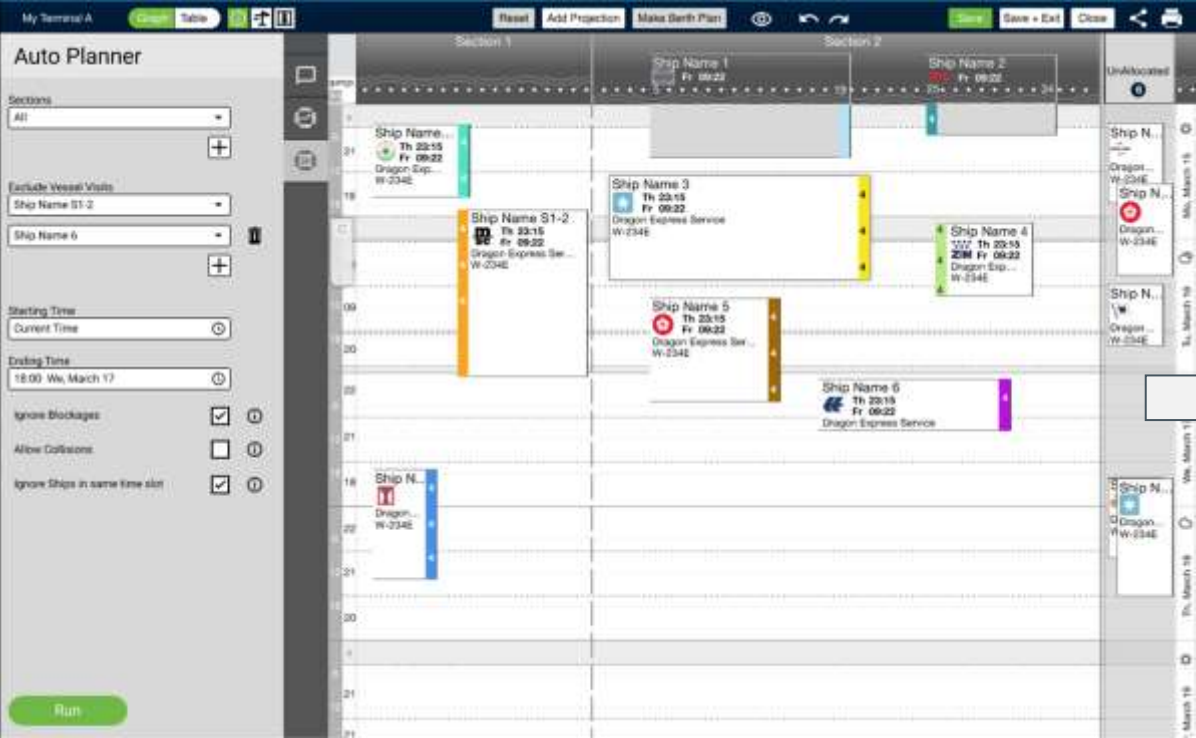


VMT

# Run Virtual Experiments



## Scenario Analysis





# Cloud Enables Actionable Visibility



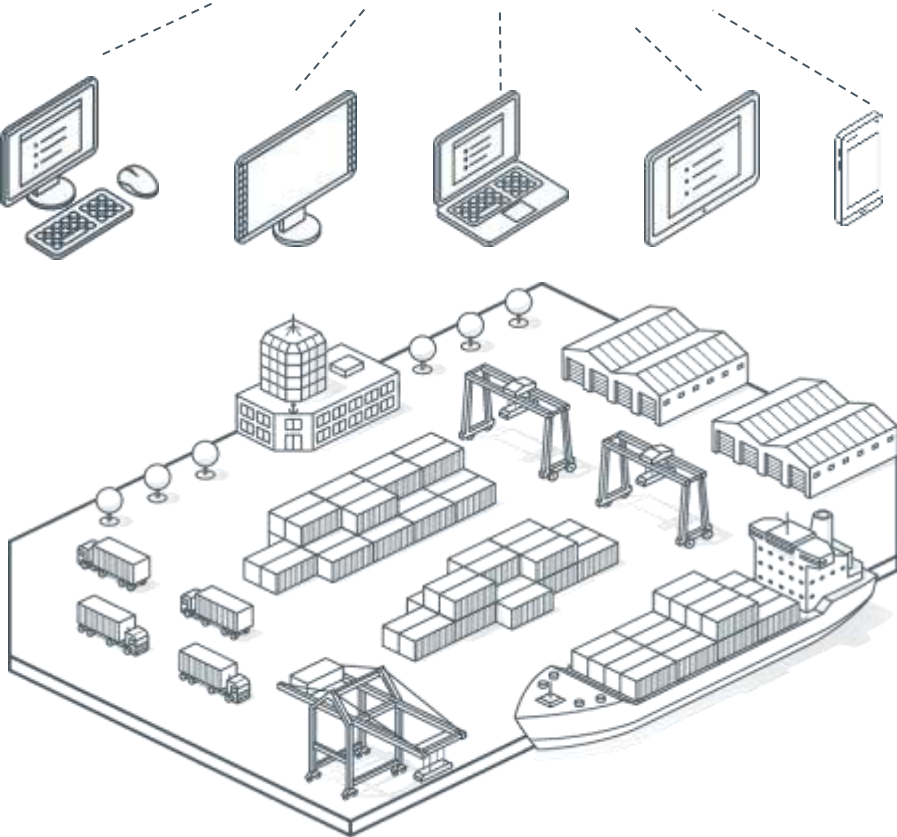
Easier to Innovate with AI & ML



Global Management



World Class Security



Blockchain & API Integration



Flexibility of Elastic Demand



Cost Savings

# Enable the Port of the Future



## Equipment is the Key Driver

Workers link individual process steps and direct yard operations



## Management by Process

- Business processes mapped to TOS
- Decisions made by control tower operators



## Automated Equipment

- Scheduling & Optimization Algorithms
- Management by Exception



## AI Driven Ecosystem

- Data-driven and AI supported decision making
- Optimizing flow of cargo between Carriers, port complex, and larger logistics supply chain

# Thank You!

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