

navis

UNDERSTANDING MIXED CARGO OPERATION : CHALLENGES & OPPORTUNITIES

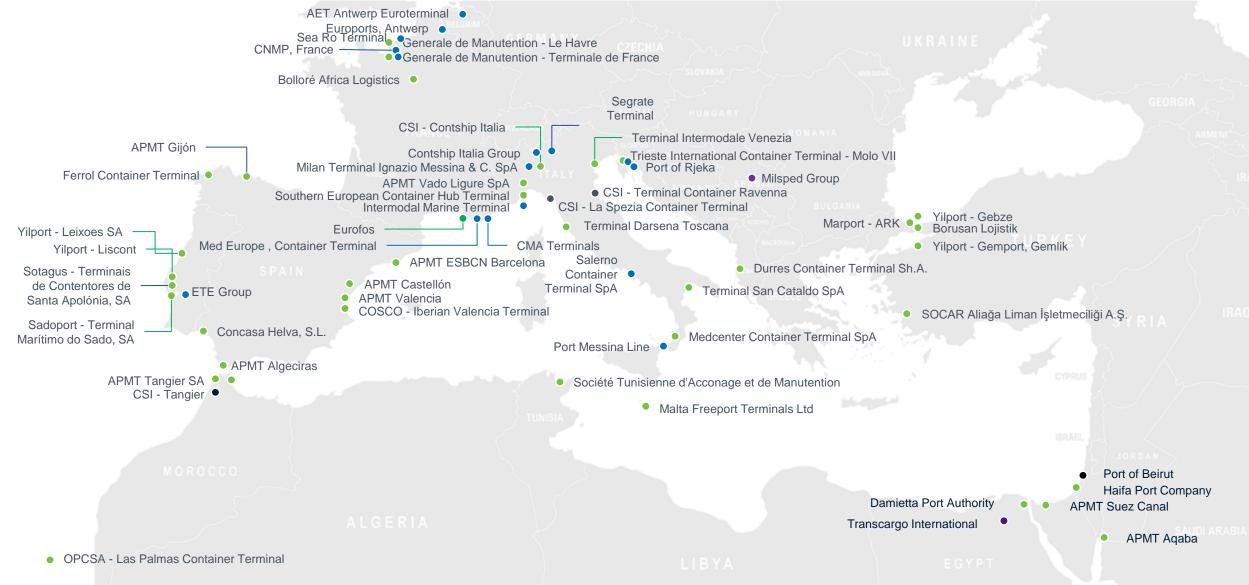
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EURO MED CUSTOMERS

Master Terminal by Navis

Octopi by Navis





Mixed Cargo & Intermodal

Site and Material specific needs	Varied real- world handling processes	Material and Regional specific regulations	Storage Separation requirements	Climatic needs	Differing dimensions and units of measure
Reduced quality	Inefficient & Costly handling	Compliance Issues	Cross Contamination	Deterioration	Inaccurate conversions

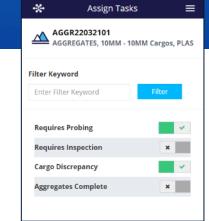
Risks

Challenging Operating Environments

- Practical solutions for different environments
- Material specific activities
- Accurate, granular charging capabilities



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Non-standard handling

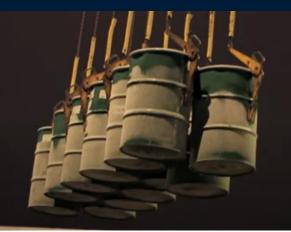


Variability adds time and money





Balancing act between Customer service & profit





Increased risk of human error



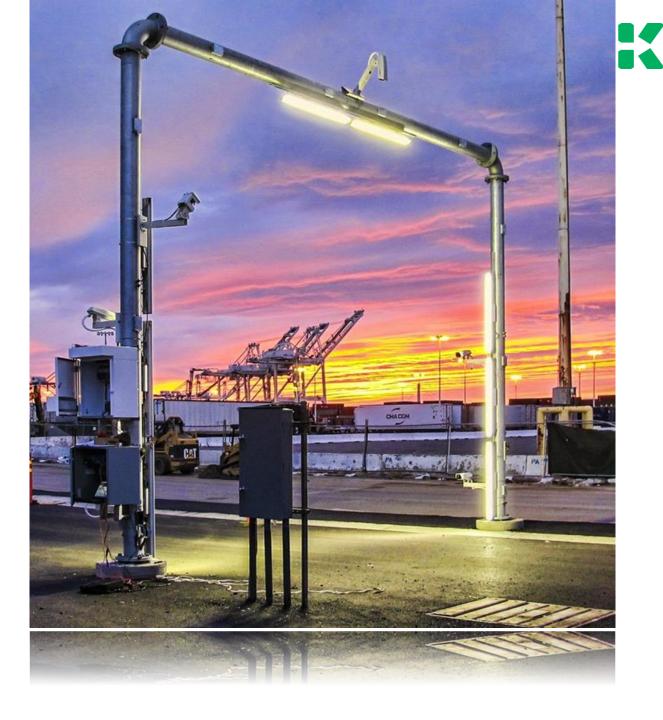


Challenges we face Complex Services

- Different customers with different needs
- Varied processes and handling options
- Broad range of Value-Added Services
 - Packaging, reshaping, and repackaging
 - Self-service storage
 - Container Filling
 - Grading
 - \circ Assembly
 - Reticketing
 - Specialized storage

Challenges we face Technology Challenges

- Lack of investment
- Change management
- Traceability & Visibility
- Automation
- Gate Complexity
- Connecting with Devices
- Integration with systems





Challenges we face Limited Standardization

- Defining general cargo in EDI is difficult
 - Free text fields & bespoke processing
- No agreement among suppliers or manufacturers on the use of specific attributes across the supply chain



Mixed Cargo & Intermodal







Technology Challenges



Limited Standardisation

Solutions need





Diverse Technology Support



Traceability & Visibility

MASTER TERMINAL FOR MIXED CARGO PORTS



Solutions need Flexibility & Adaptability

- Terminal business changes over time
- Flexibility to easily configure and adapt business rules & invoicing
- Configuration challenges standard configurations vs customized ones
 - Trade-offs to consider
- Deployment options changing

Solutions need Technology Support

- Integration with devices
- Gate Kiosks & Self Service for GC
- Delivery Orders & Appointments
- Integration with internal & external systems
- Customer Defined EDI





Solutions need Traceability & Visibility

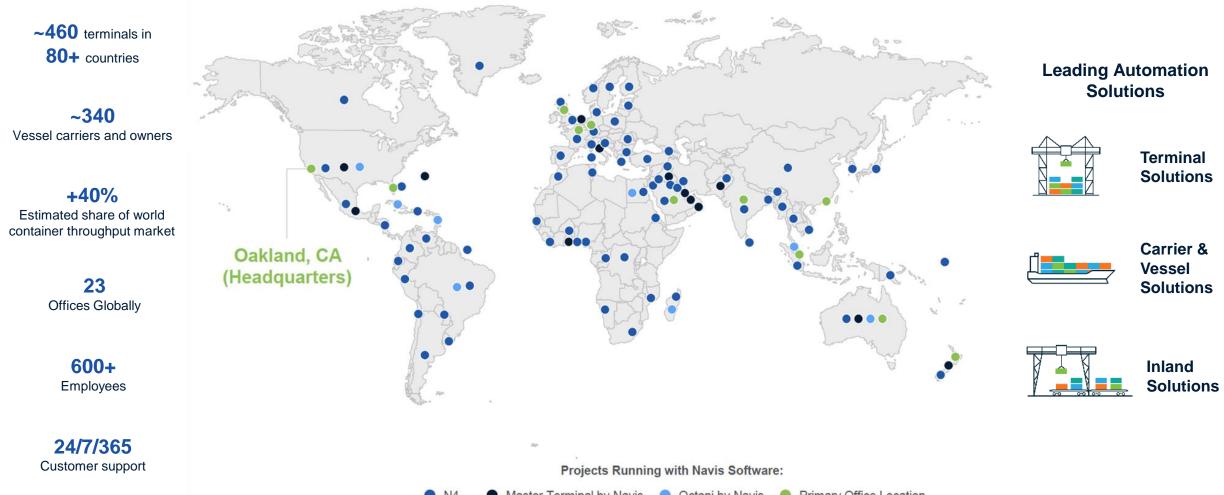
- Ability to identify and trace
 General Cargo
- Provide visibility to different stakeholders
- Granular invoicing capabilities

MIXED CARGO TOS SOLUTIONS

Value for Money **Easily Integrated** Project budgets that match Ability to integrate with devices Mixed Cargo Profit Margins and other systems **Deployment** Product **Customizations Options** Managed Deployments on Ability to configure and cloud or on prem customise the product Minimal IT Involvement **Latest Features** Free upgrades to get the latest features & functionality Managed systems that don't need a heavy IT investment

NAVIS IS THE PARTNER OF CHOICE FOR CLIENTS ACROSS THE GLOBE

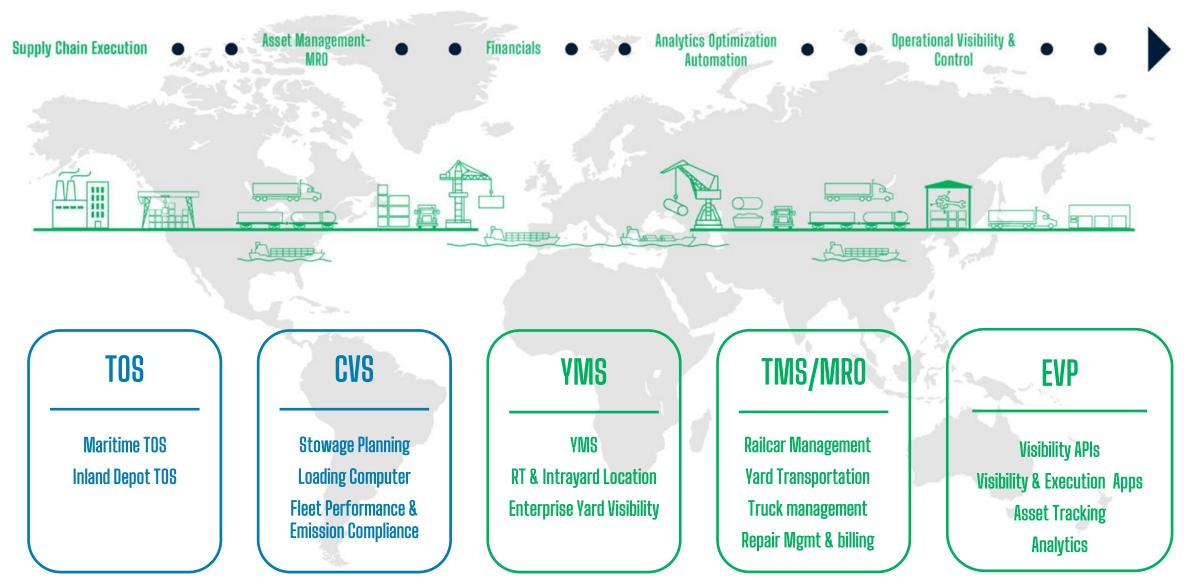
Making global trade smarter, safer, and more sustainable for everyone



N4 Master Terminal by Navis Octopi by Navis Primary Office Location

Every Move Matters

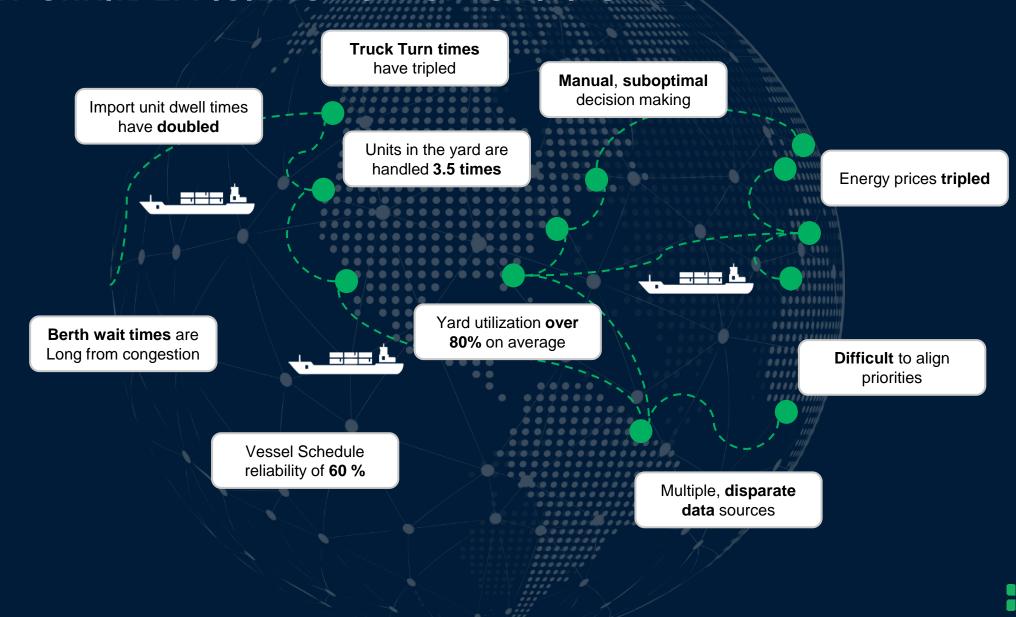
Addressing All Players in the Supply Chain



CONNECTED SUPPLY CHAIN



Connect multiple systems in the supply chain (ie. N4, MTN, YMS, Octopi, etc.)



SUPPLY CHAIN EFFICIENCY OPPORTUNITIES





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