



Optimal Route









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JOC > Maritime News > Container Lines > Maersk Line

Port productivity is not improving

Peter Tirschwell, Senior Director, Content, IHS Maritime



The fundamental industry problem identified as soon as mega-ships of 10,000 TEUs and above started hitting the waves remains alive and well - and wholly unresolved.

That is the problem of productivity. There has been little progress in carriers' and terminals' ability to get these ships quickly worked and sent back out to sea, resulting in delays to cargo and added costs for carriers. Maersk Line made a point of mentioning the issue in its full-year earnings release on Thursday and CEO Soren Skou discussed it in an interview with JOC.com

"We continue to build ships that are bigger and bigger and if we can't get the containers off faster the whole thing will come to a grinding halt," Skou said on Thursday.

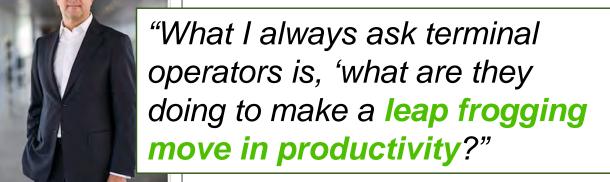
"Since 2007 the ship size in the Asia-Europe trade has effectively doubled. We used to have 6,500 TEUs being the workhouse, now it's the 13,000-TEU ships, which are the workhorses. Our point is simply that port productivity has not doubled since then. While there has been

improvement in productivity, we are spending more time in port because of bigger ships."

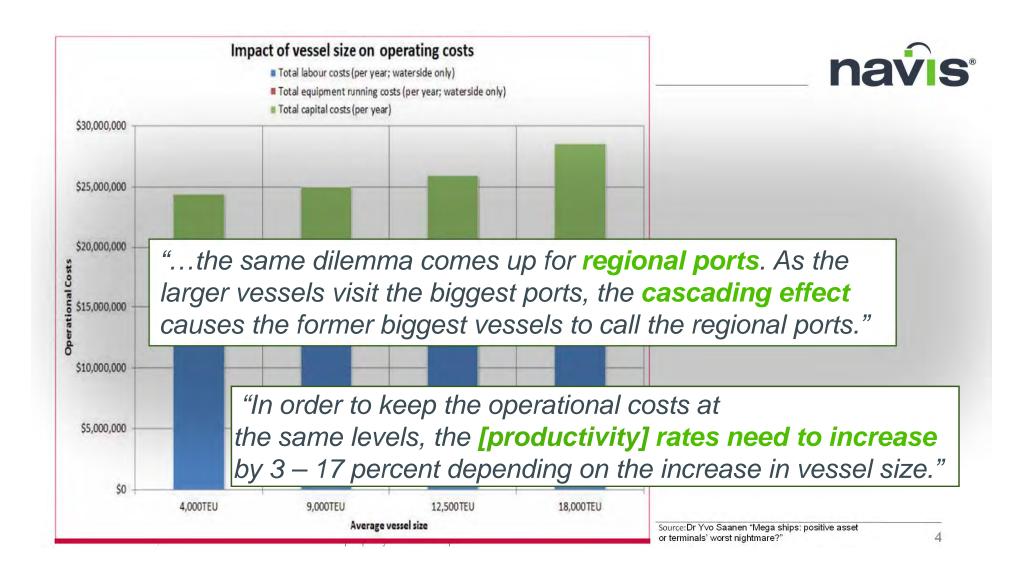
Soren Skou



"While there has been improvement in productivity, we are **spending more time** in port because of bigger ships."



Source: Port productivity is not improving, Maersk CEO says, Peter Tirschwell, Senior Director, Content, IHS Maritime and Trade



Australia's Port Botany uses holistic approach to battle congestion

Zoe Reynolds, Special Correspondent | Dec 03, 2015 9:50AM EST



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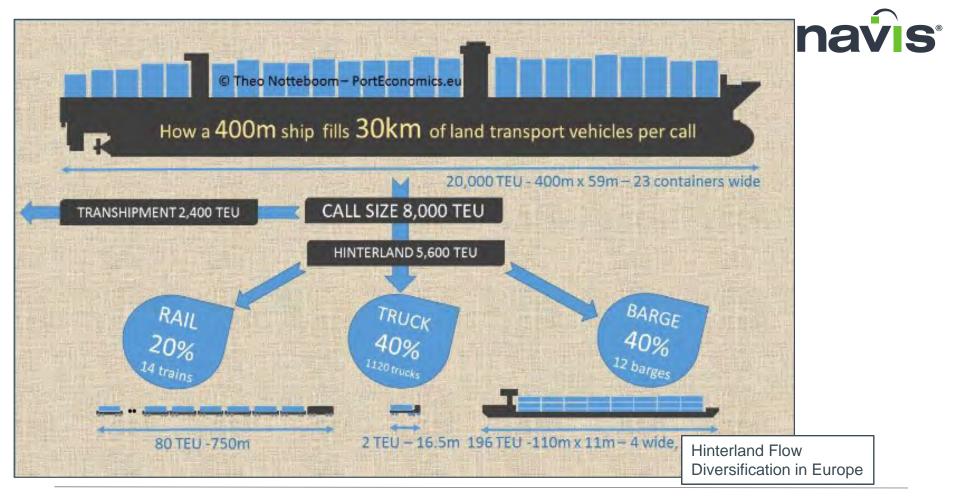
"Truck queues and bottlenecks have worsened at the port, with only a fraction of its containers carried by rail. But this is set to change with three new intermodal terminals"

"A 'beyond the port' methodology must replace the 'introspective' approach... the government is keen for rail use to hit 28% by 2020"

An artist's rendering of the Mooreban

New intermodal terminals in <u>Australia</u> reflect the more <u>holistic approach</u> toward port capacity and productivity that some observers say will be needed as volumes grow and mega-ships discharge larger and larger loads of cargo.

Source: Journal of Commerce, Australia Port Botany uses holistic approach to battle congestion Dec 03 2015



Australia promotes food exports after commodity boom ends

Zoe Reynolds, Special Correspondent | Sep 19, 2015 8:00AM EDT







Australia is trying to boost its containerized food exports after a world commodity glut halted a boom in shipments

of the nation's top three export commodities, iron ore, coal, and liquefied natural gas.

navis



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The SOLAS Container Weight Verification Requirement

January 2015

The International Maritime Organization (IMO) has amended the Safety of Life at Sea Convention (SOLAS) to require, as a condition for loading a packed container onto a ship for export, that the container has a verified weight. The shipper is responsible for the verification of the packed container's weight. This requirement will become legally effective on July 1, 2016. After that date, it would be a violation of SOLAS to load a packed container onto a vessel if the vessel operator and marine terminal operator do not have a verified container weight.

determine the contain operators will all need

Because there hav are, the World Shipp requirement.

The SOLAS amend "...will become legally effective July 1... after that date, it would be a requirement will apply violation of SOLAS to load a packed container onto a vessel if the this regulatory change. vessel operator and marine terminal operator do not have a verified container weight"

Basic Principles Under the SOLAS Requirement



THE STRAITS TIMES / Opinion

nation, PSA is broadening its glob

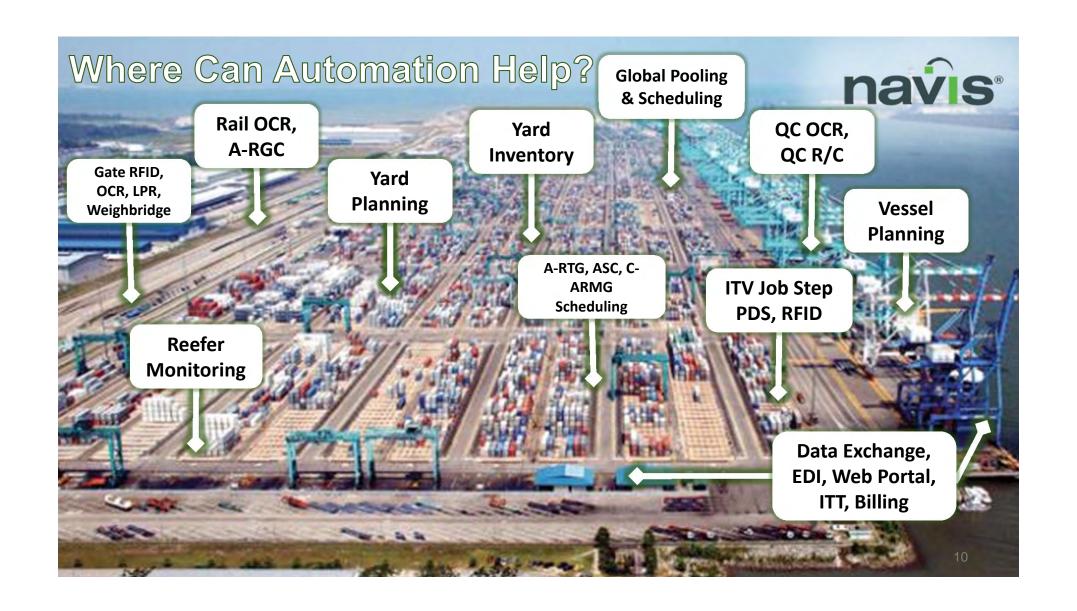
"THE container-handling industry is now in the midst of unprecedented change, with the upsizing of container ships and the 42 years, 500 r consolidation of shipping liners. As a result, we will see the inevitable obsolescence of old terminals."

> "...we can hone the automation capability to reach a sweet spot, where we can achieve consistently high performance under varying operational circumstances, overcoming ever-increasing constraints on space, time and labour."

"BEYOND building on current best practices, we must also continue to challenge our assumptions and push for game changers..."

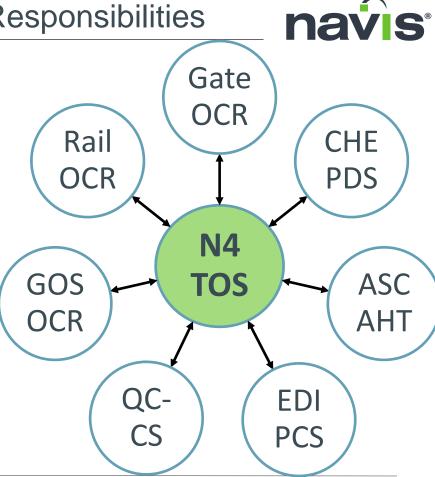
BY TAN CHONG MENG, FOR THE STRAITS TIMES

"42 Years, 500 Million TEU. One PSA" Tam



Understand Vendor Roles and Responsibilities

- Can the TOS support selected automated solutions?
- Is there a well-defined API that specifies system roles and interactions?
- Are exception cases handled with alerts and steps to resolution?
- How are partnerships managed for future releases?



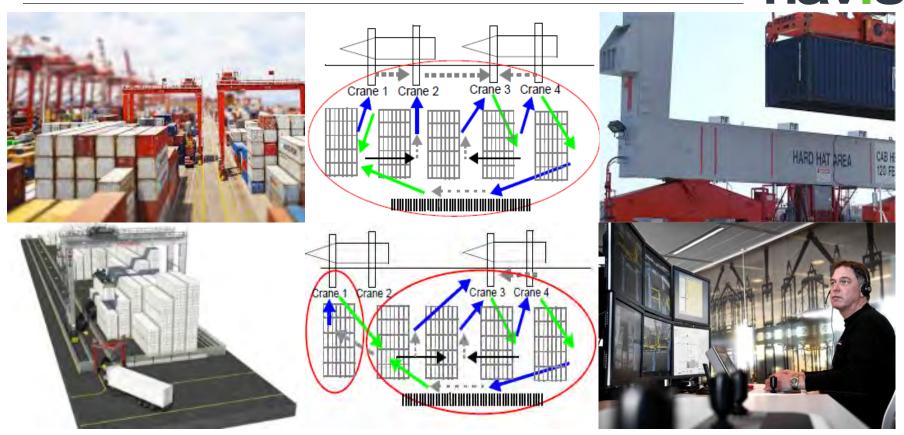
Automation Technologies: Gate, Rail, Yard





Automation Technologies: Yard, ITVs, QC





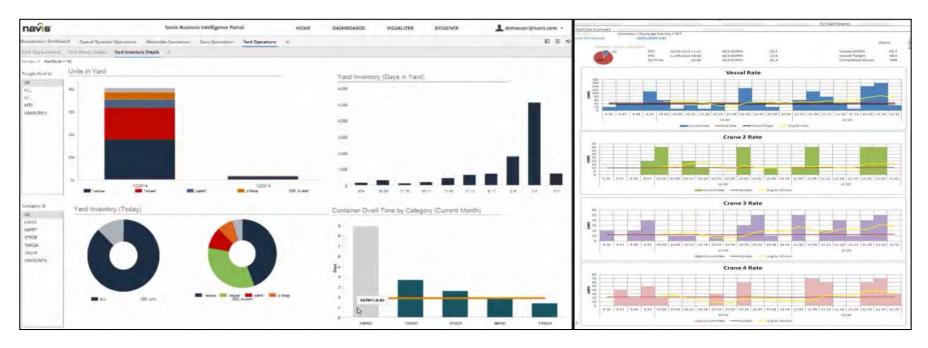
Automation Technologies: Automatic CHEs





Unlock Terminal Data to Drive Decisions





Analyze Operations to Find Bottlenecks and Inefficiencies to Prioritize Improvement Investments

Vendor Solutions and Experience



























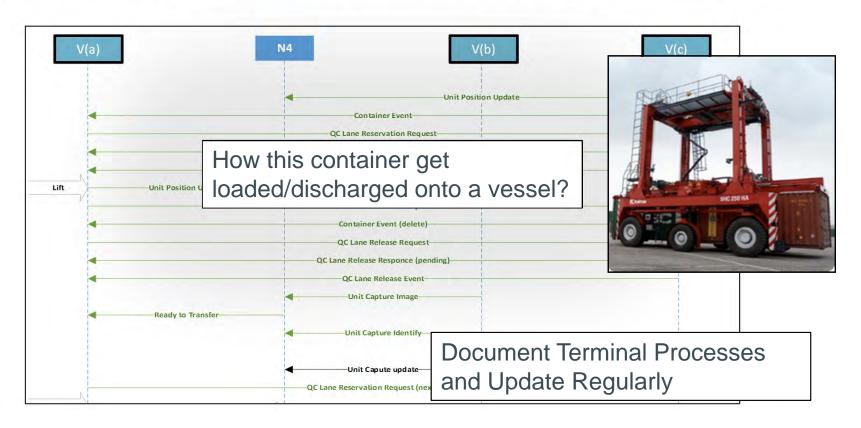






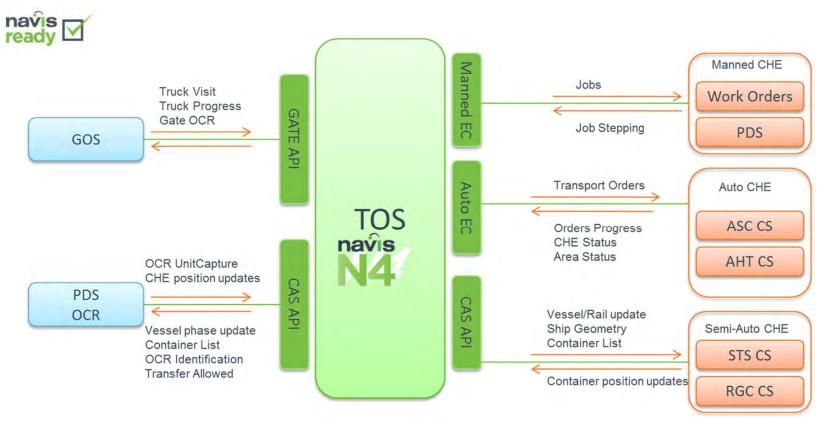
Documenting Automated Communications





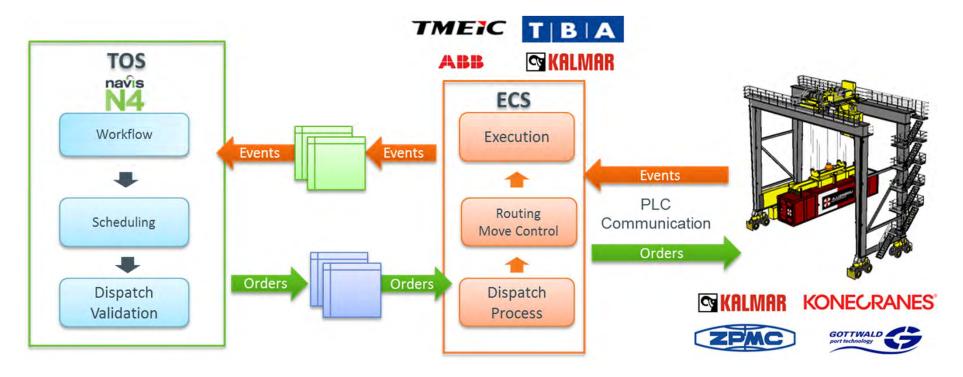
N4 Integration Partner Platform





N4 Readiness Provides Integration Reliability

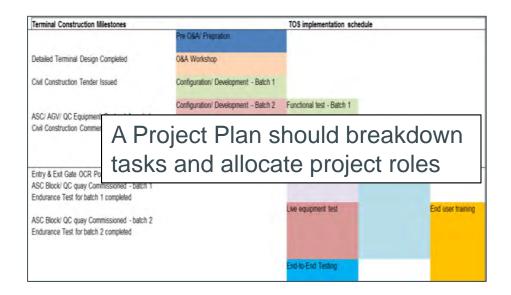


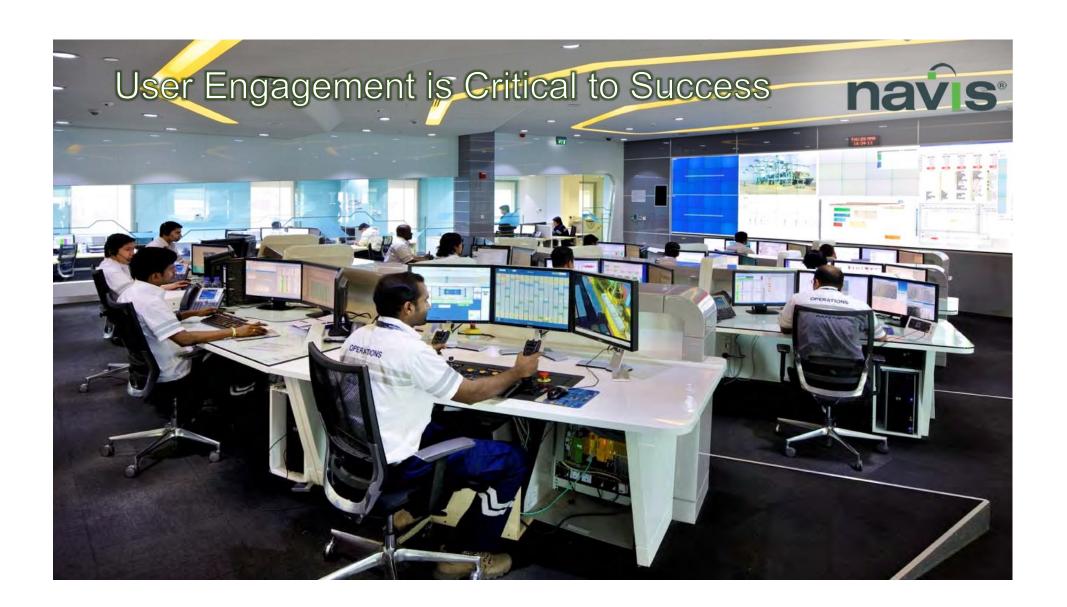


Project Planning and Risk Management



- Greenfield vs. Brownfield risk profile
- Resource Roles
- Project Milestone Definition
- Experience
- User Acceptance and Training
 - Integration Testing
 - Functional Testing
 - Volume Testing
 - Operational Testing





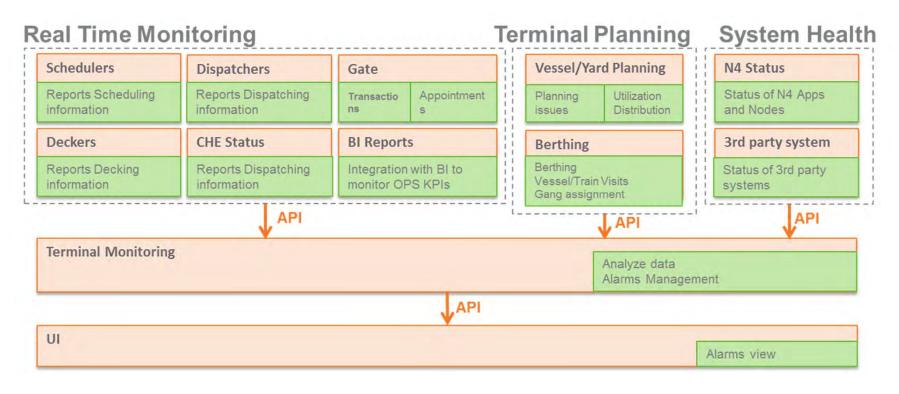
Terminal Monitoring: Alerts

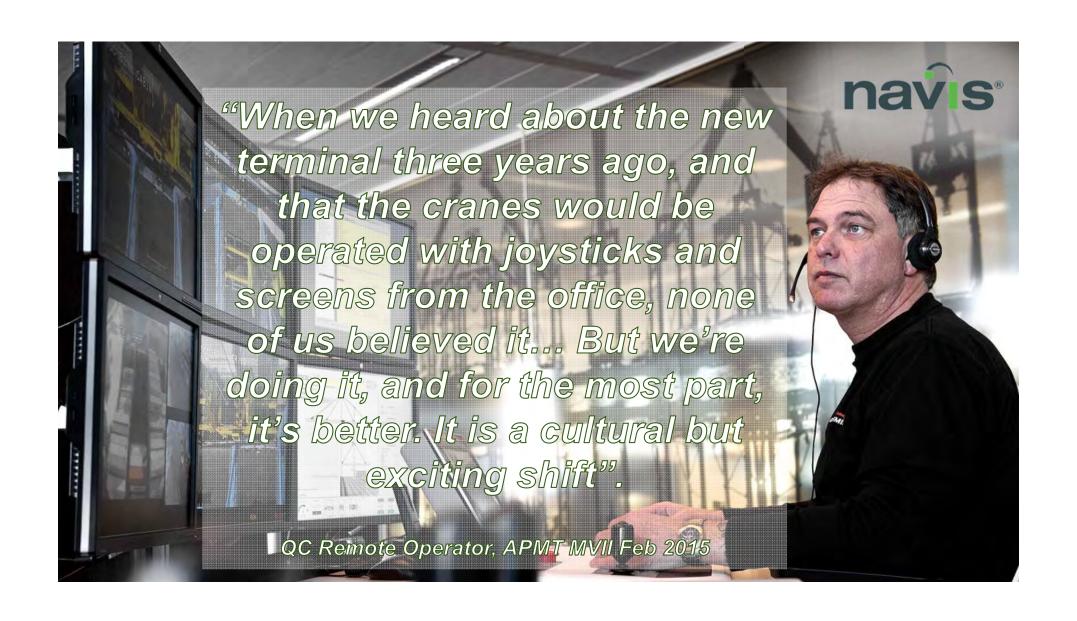


	Exception	Description	Affected Work Instruction	Work Queue	Work Assignment	Move Purpose
~	Abort by ASC11W	Error on spreader	BBCU2204074	yard-Admin	13615	INTRASTACK
~	Dispatch validation failed	ASC OUTBOUND DISPATCH YET AGV NOT DISPATCHED	TEST9245431	yard-Admin	14597	INTRASTACK
~	Dispatch rejected	Transfer zone not available	TEST9452143	yard-Admin	14567	INTRASTACK
	Dispa	Validations				
	Priority promotions	Scheduling	Gate		and	more +

N4 Platform for Operational Monitoring & Planning







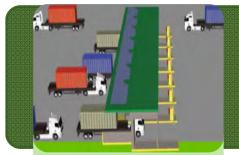
The World is Adopting Automation Processes





Navis Automation Modules and Experience







- Gate **Appointments**
- Gate OCR/LPR
- Gate RTLS

- N4 Yard
- •PDS/RTLS
- GeoFencing
- Auto Yard Stowage
- Advanced RTG
- ARMG
- ECS
- AGV
- AGV Racks
- AutoShuttle
- •PM Pooling

N4 Rail

- Remote RGC
- Rail Crane OCR
- Rail Portal **OCR**
- Auto Rail Stowage

N4 Vessel

- Remote QC
- ECS
- Second Trolley
- Tandem / Quad
- Vessel OCR
- Flexible Loading
- Auto Vessel Stowage

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Improving Operational Processes Utilizing Automation at Container Terminals Johannes Leholm Sales Engineer, APAC johannes.leholm@navis.com

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