



In Twenty Minutes...









Seales at Little



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JOC - Manten Haws - Centures Linux - Stance Line

Port productivity is not improving

Peter Tirschweil, Senior Director, Content, IHS Maritime



The fundamental industry problem identified as soon as mega-ships of 10,000 TEUs and above stanted filling the waves remains after and well — and artists similaritied.

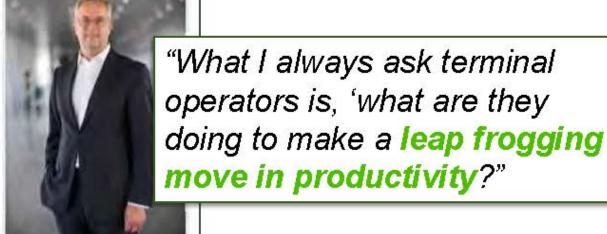
That is the problem of productivity. There has been little progress in camers, and terminals ability to get these ships quickly worked and sent back out to sea, resulting in delays to cargo and added costs for carriers. Marrisk Line made a point of meritining the issue in 65 full-year earnings release on Thursday and GEO Soren Skou discussed it in an interview with JOC pure.

"We continue to fixed steps that are tagger and bagger and if we can't get the containers off faster the whole tring set come to a granding half." Blood sets on Thursday.

Since 2007 the linep rice in the Asia-Europe trade has effectively doubled. We used to have 6,500 TEUs being the workhouse, how it's the 13,000-TEU slight, which are the workhorses. One point is simply that port productivity has not stoubled since then. While there has been

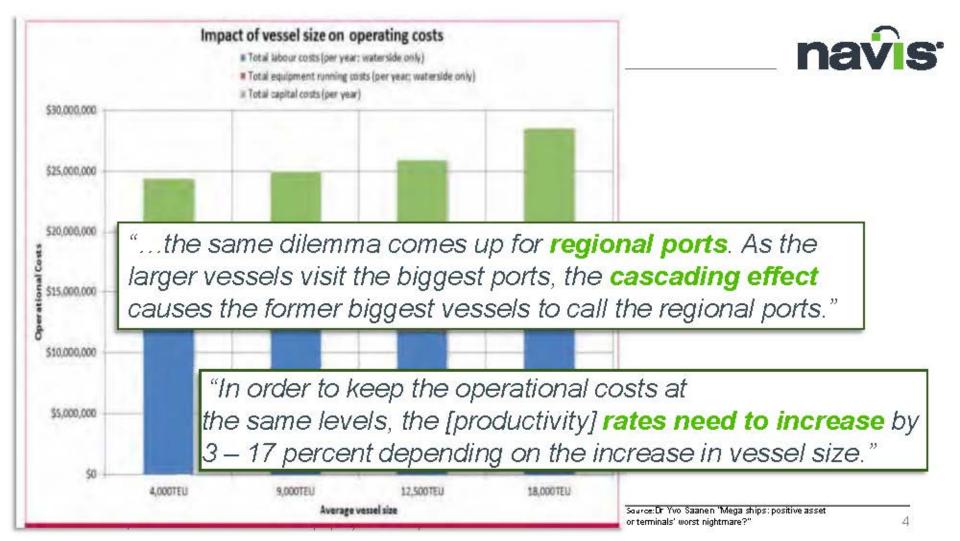
improvement in productivity, we are spending more time in port tierause of tigger ships.

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



Soren Dine

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











ADC - Rail & Intermodal - International Rail - Asia

Indian government approves new inland container depot

JOC Staff | Jul 13, 2015 3:22PM EDT

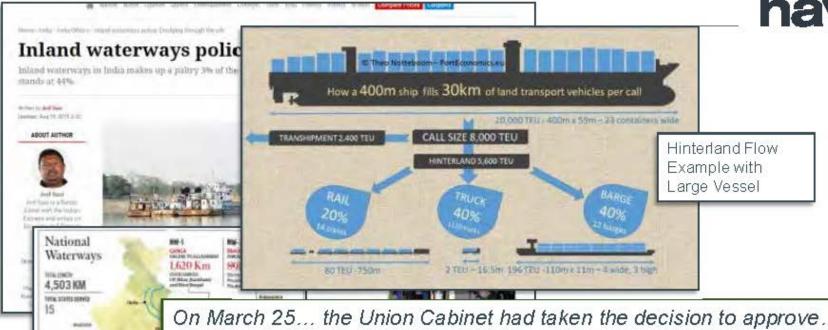
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Gateway Distriparks Ltd., India's leading port-based logistics provider, has received government approvals for the construction of a new inland container depot facility at Viramgam, near Ahmedabad in Gujarat State.

Source:The Indian Express: Inland waterways policy: Dredging through the silt





On March 25... the Union Cabinet had taken the decision to approve...101 additional Inland Waterways as National Waterways (NW) for navigation, something that Gadkari said "would transform the inland waterways system in the country like never before".

Source:The Indian Express: Inland waterways policy: Dredging through the sit

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"THE container-handling industry is now in the midst of unprecedented change, with the upsizing of container ships and the 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 ... "

Source: Straits Times. "42 Years, 500 Million TEU, One PSA" Tami

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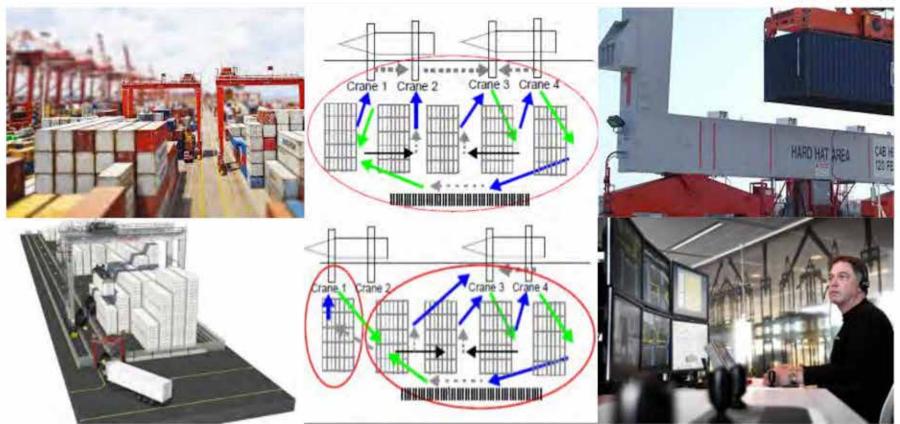
Automation Technologies: Gate, Rail, Yard





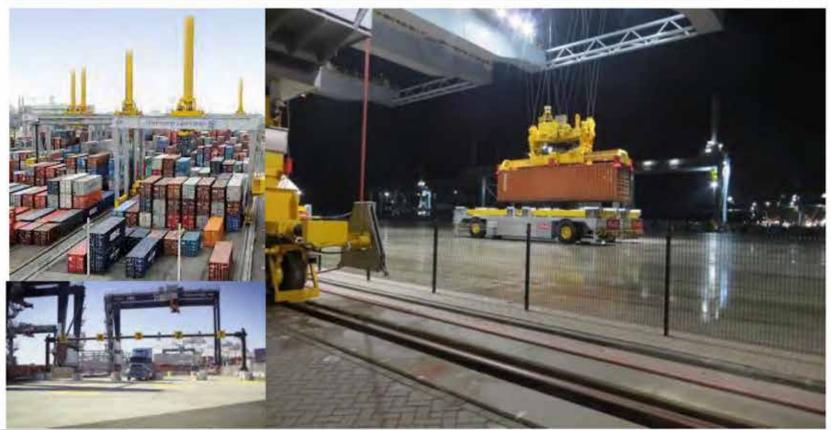
Automation Technologies: Yard, ITVs, QC





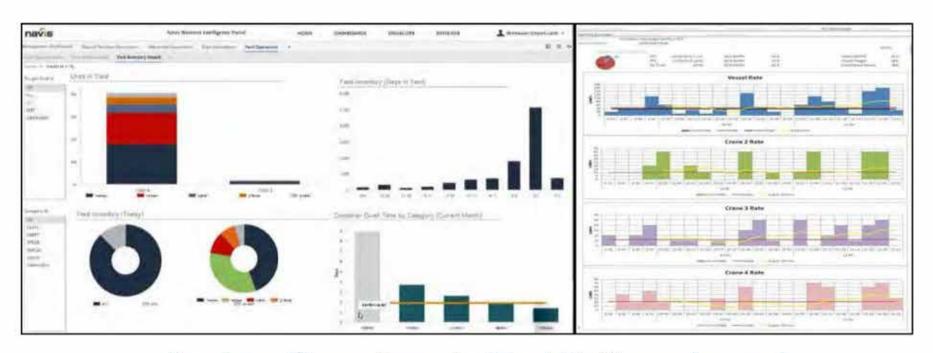
Automation Technologies: Automatic CHEs





Unlock Terminal Data to Drive Decisions





Analyze Operations to Find Bottlenecks and Inefficiencies to Prioritize Improvement Investments

Vendor Solutions and Experience















Automated Technologies With A Vision















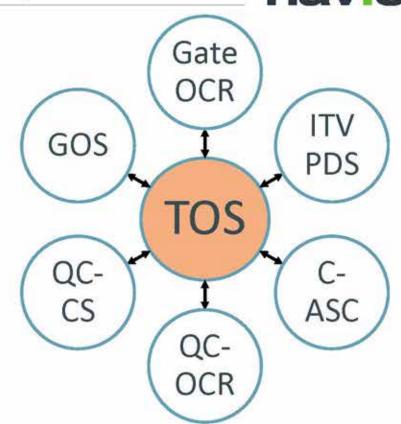
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THE CKONECRANES IDENTED SOLUTION

Understand Vendor Roles and Responsibilities

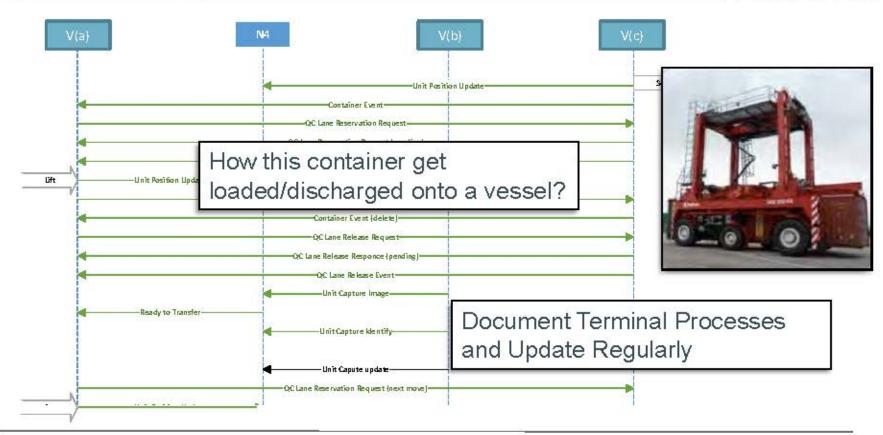


- Can the TOS support selected automated solutions?
- Is there a well-defined API that specifies system roles and interactions?
- Are exception cases handled with alerts and steps to resolution?
- How are partnerships managed for future releases?



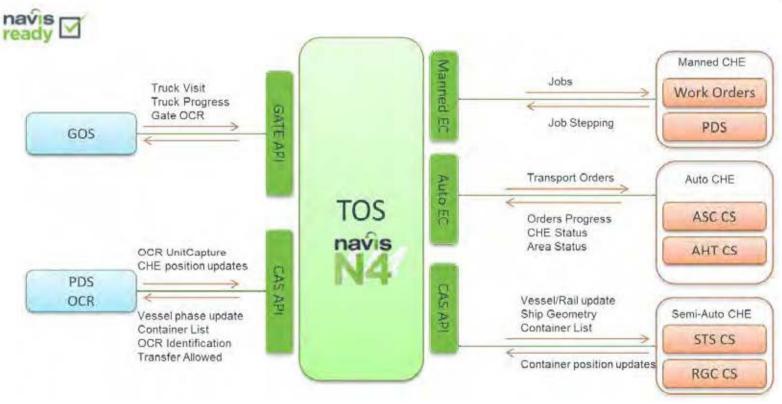
Documenting Automated Communications





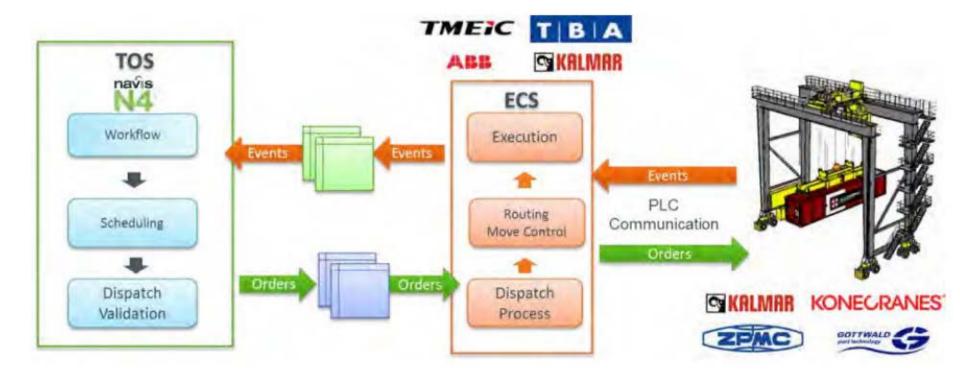
N4 Integration Partner Platform





N4 Readiness Provides Integration Reliability

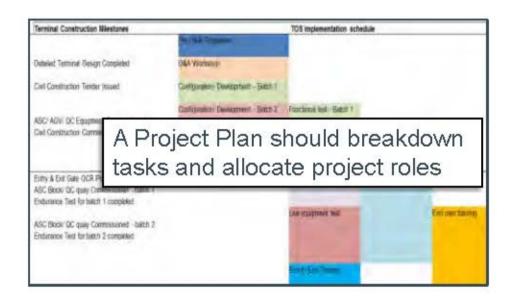




Project Planning and Risk Management



- 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	
P	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	
Ī	Dispa	tching Decking) (Valida	tions		
	Priority promotions	Scheduling	Gate		and	more +	

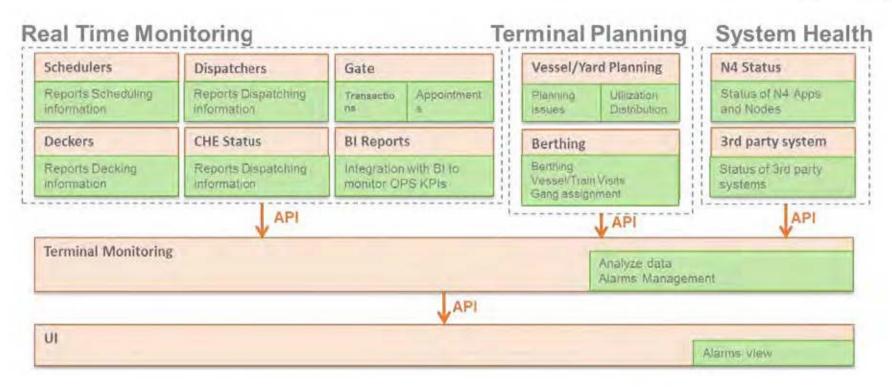
Terminal Monitoring: Resolutions

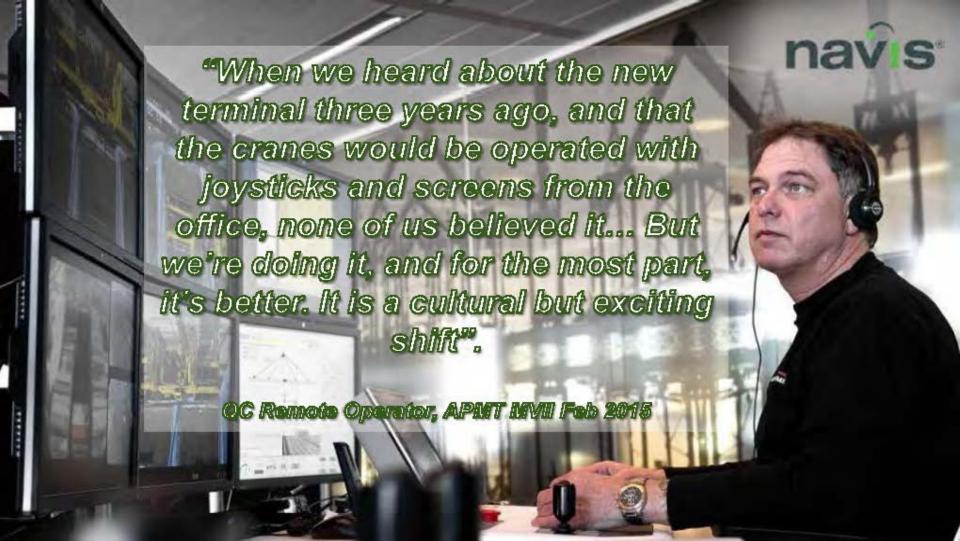


+	Exception	Description	Affected Work Instruction	Work Queue	Work Assignment	Move Purpose	User	
1	Abort by ASC11W	Error on spreader	BBCU2204074	yard-Admin	13615	INTRASTACK	Admin 2	0
	Dispatch validation failed	ASC OUTBOUND DISPATCH YET AGV NOT DISPATCHED	TEST9245431	yard-Admin	14 197	INTE ASTACK		6
	Dispatch rejected	Transfer zone not available	TEST9452143	yard-Admin	14 67	INTRASTACK		6
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			User	Owne	rship			
			User	Owne	rship			

N4 Platform for Operational Monitoring & Planning







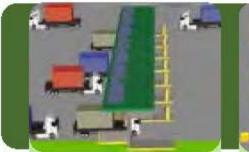
The World is Adopting Automation Processes

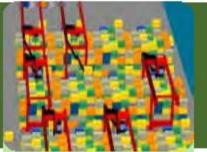




Navis Automation Modules and Experience











N4 Gate

- 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 OC
- · ECS
- Second Trolley
- · Tandem / Quad
- Vessel OCR
- · Flexible Loading
- Auto Vessel Stowage



Geographic Presence





Pushing for Game Changers







