

New Role of Port and Container Terminal Automation in a Pandemic Age

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Chief Operations Officer

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ports & logistics

Company Profile

Pelabuhan Tanjung Pelepas started in 1999 as a regional transshipment hub for South East Asia and one of the world's biggest container terminal with Over 120mil TEUs cumulative record for past 21 years



Core Businesses



Transshipment





Free Zone

Asset Capacity

5.04km linear quay

4500 manpower

62 Quay Crane

172 RTG

459 Prime Movers

483 Terminal trailer

"PTP is delivering digital transformation with mobile apps – that enable to manage operation, anytime, anywhere"

Digitalization of Bus Request





- Efficient and safe transportation mechanism
- Manage movement of employee
- Optimizing resource allocation



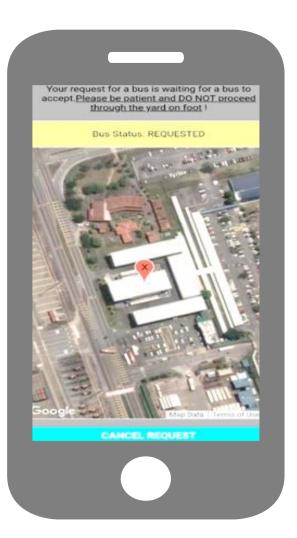
- Accurate pick-up & drop-off points
- Manage social distance upon request



90%

Reduce waiting time (open request) 100%

Enhance pedestrian safety



Live Incentive Monitoring





- Motivate operation staff
- Performance reward appliance
- Real time performance management



- Gamification
- Live roster



Live time performance visibility

100% Motivates

Relate own performance to incentive earned



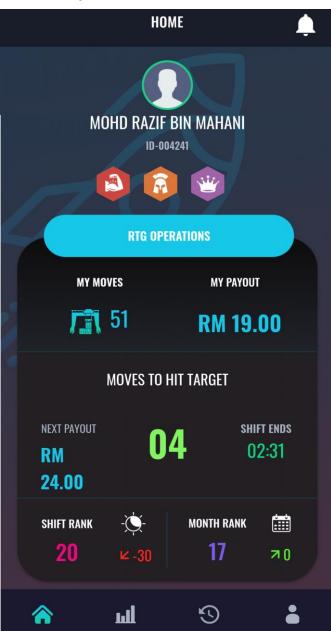


i) Home screen



ii) Statistic screen

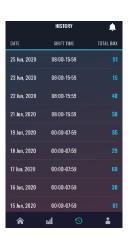




iv) Account Overview



iii) History screen



Real Time Operation Insight





Full visibility of operations, data governance & safety, all in real-time





- Decoupled from N4
- On cloud system deployment as fast as 6 hours



100%

No downtime required

100%

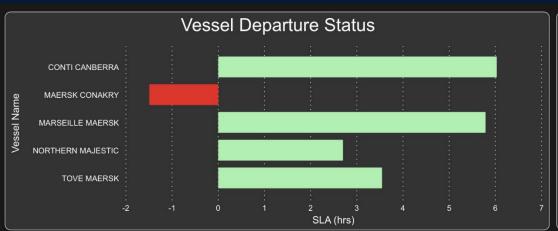
Data accuracy

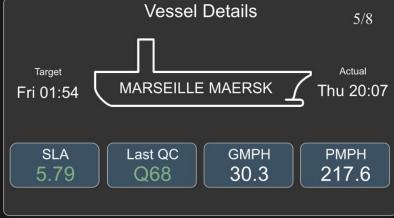


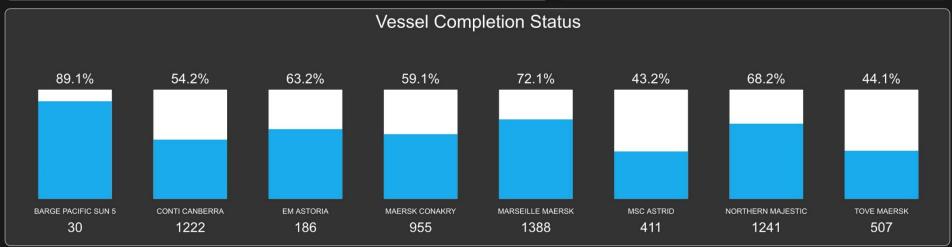
Vessel Target



Last update: 25 Jun, 11:15











Virtual Pinning Strategy





- Eliminate suspended load hazard
- ▶ Resource optimization
- ▶ Enhance data accuracy



- ► Early confirmation prior operation
- Unit allocation visibility

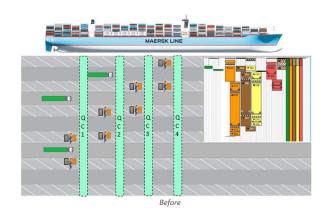


20%

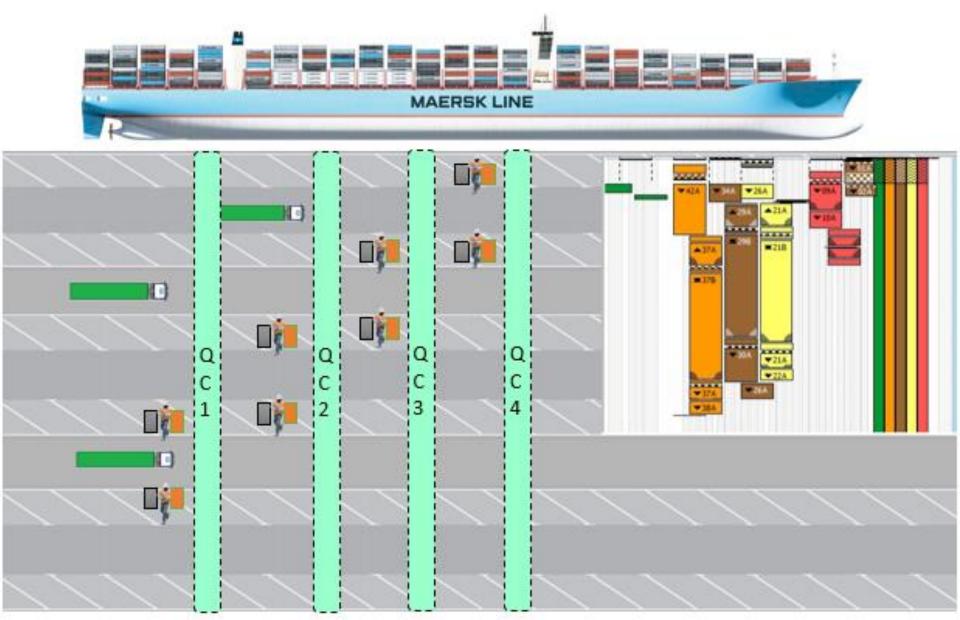
Headcount reduction

70%

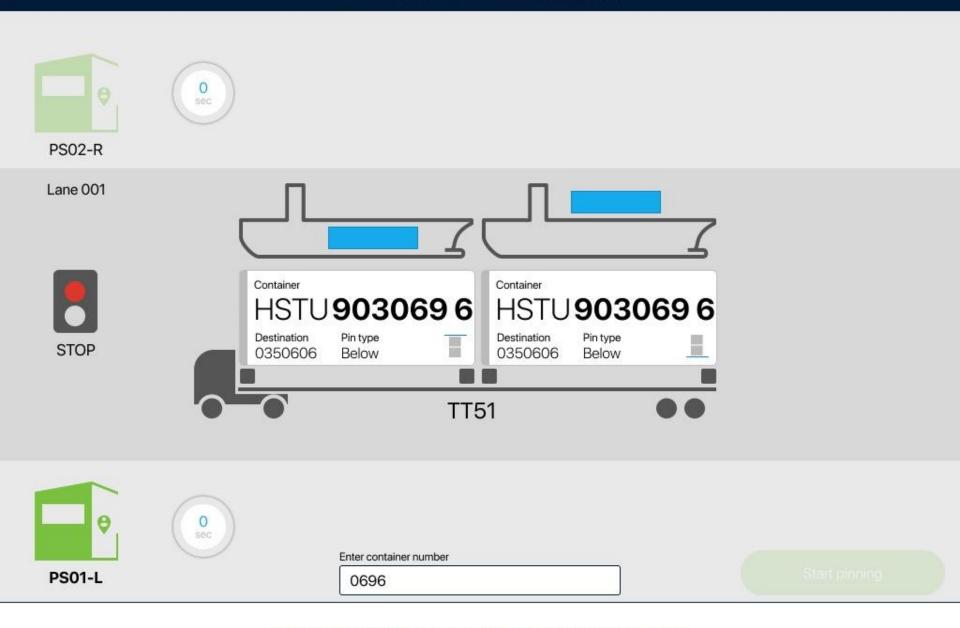
Reduction of forklift movement



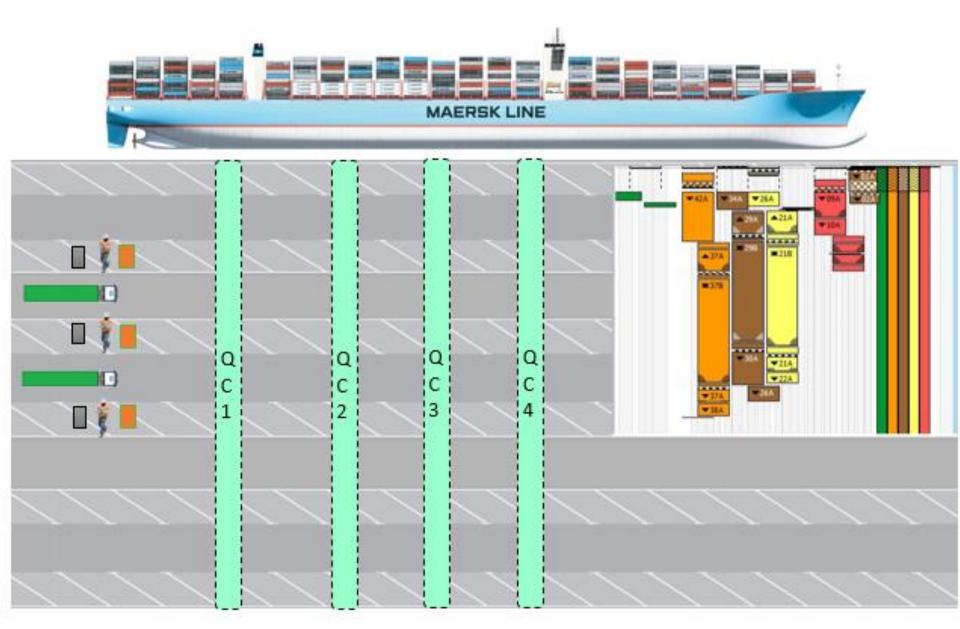
10



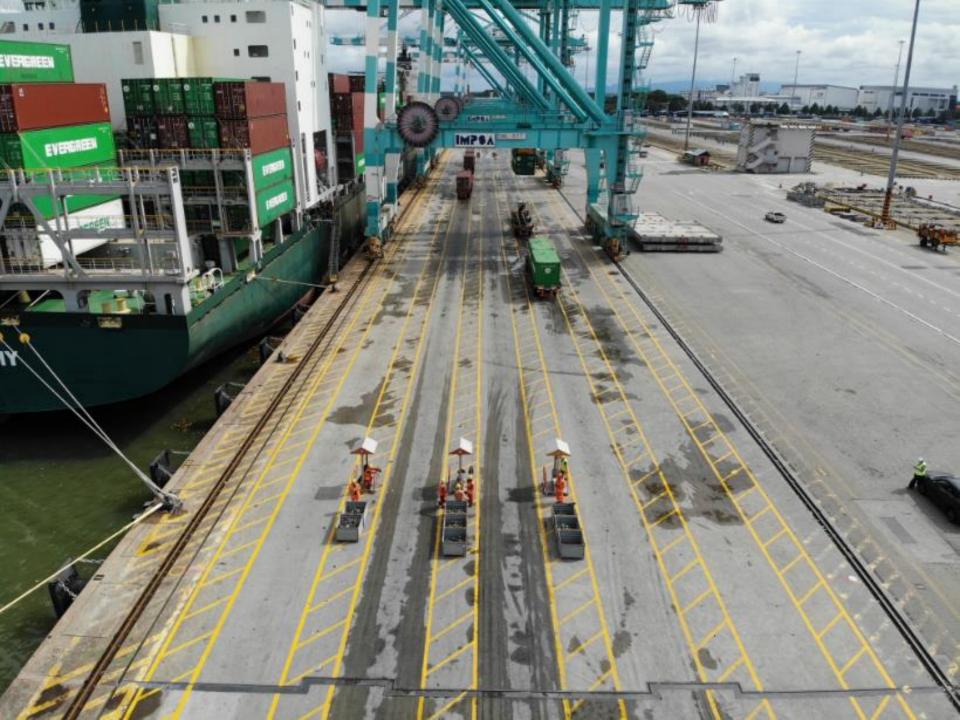
Before



Wait for PS02-R to Verify Container Number



Current





Thank You



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