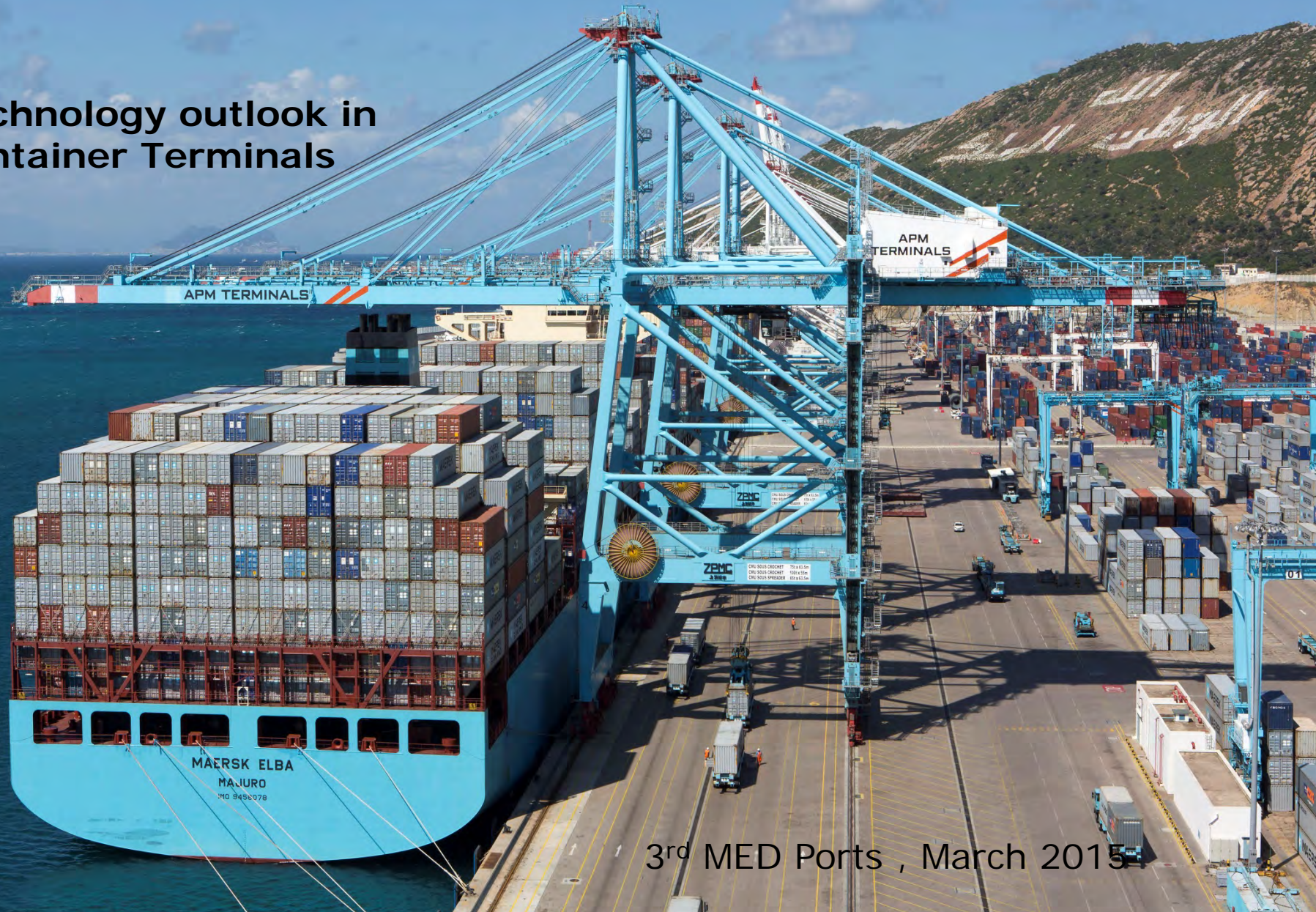


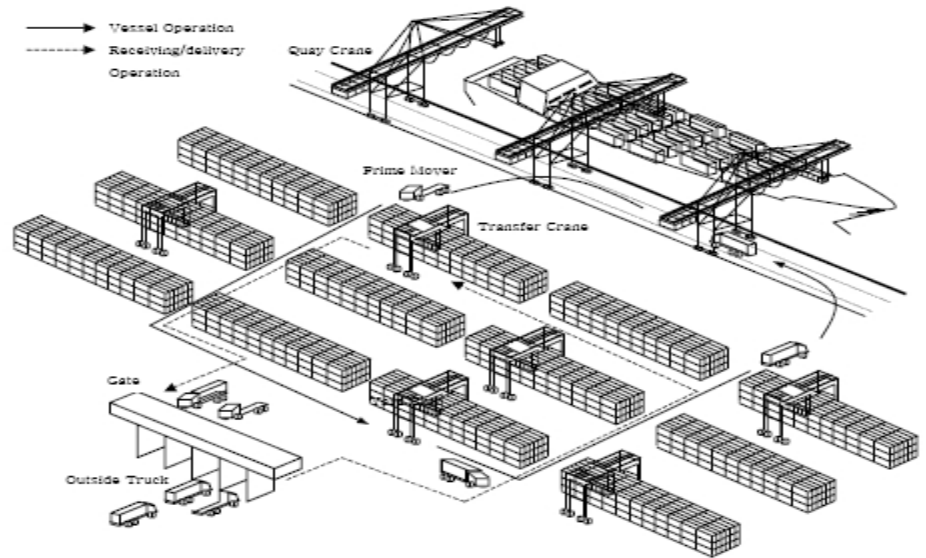
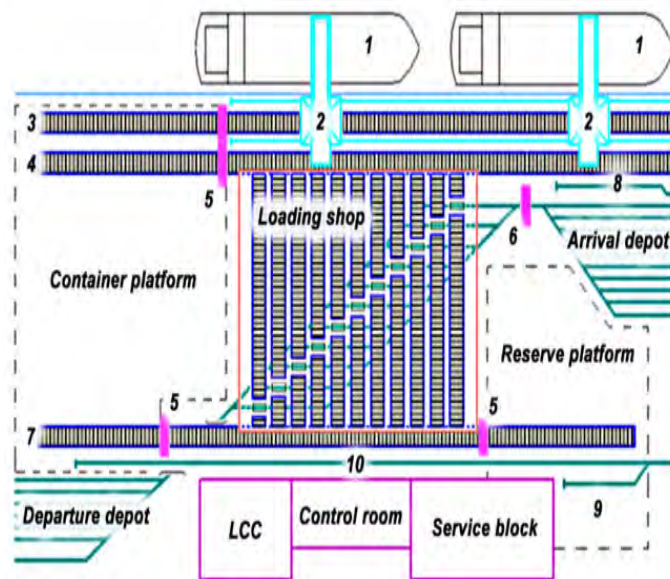
Technology outlook in container Terminals



3rd MED Ports , March 2015

APM TERMINALS

Challenging Business...and it will remain so !



1. Safety

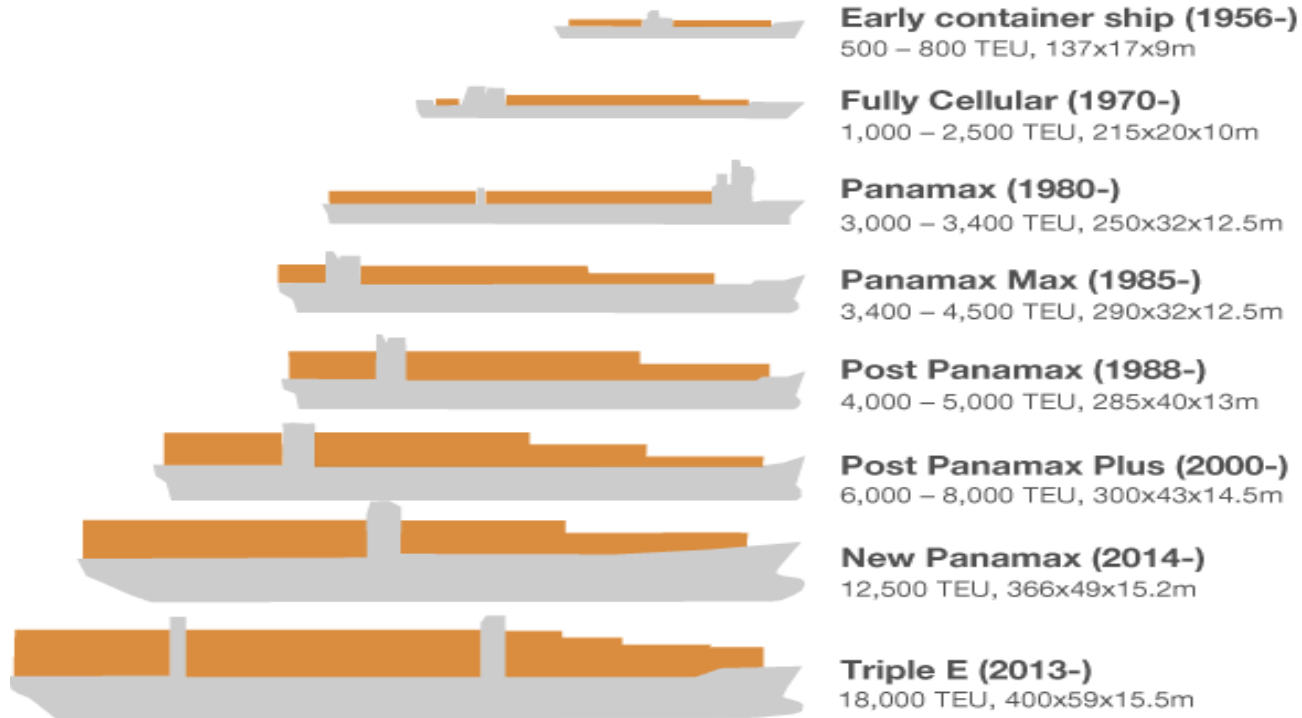


2. Mega Vessels



Evolution of container ships

TEU: twenty-foot equivalent units,
length x width x depth below water in metres



Adapted with permission from The Geography of Transport Systems, Jean-Paul Rodrigue

What TEU Capacity in 2020 ?

APM TERMINALS



Higher Crane Deployment
Higher Volume Operation

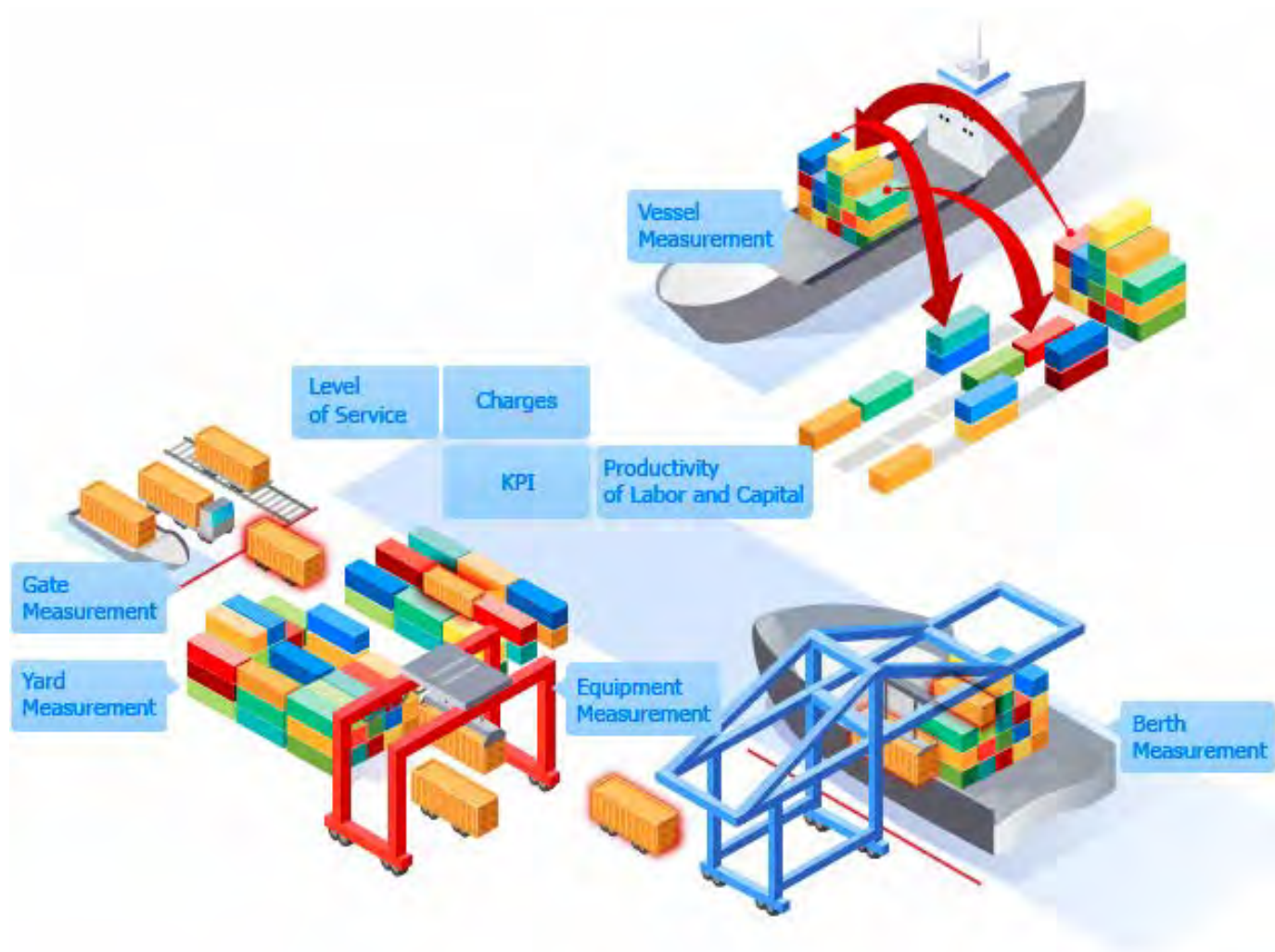


Higher Yard Density



3. Terminal Asset Management

4. Performance Measurement



What can we learn from other industries

- ❑ Amsterdam Airport Schiphol implemented the most innovative Robotized Baggage handling system in the industry



SFO's state-of-the-art triple bridge system connects Emirates' A380 to SFO Gate A9

- ❑ Triple bridge system for boarding A380 dramatically reducing boarding time



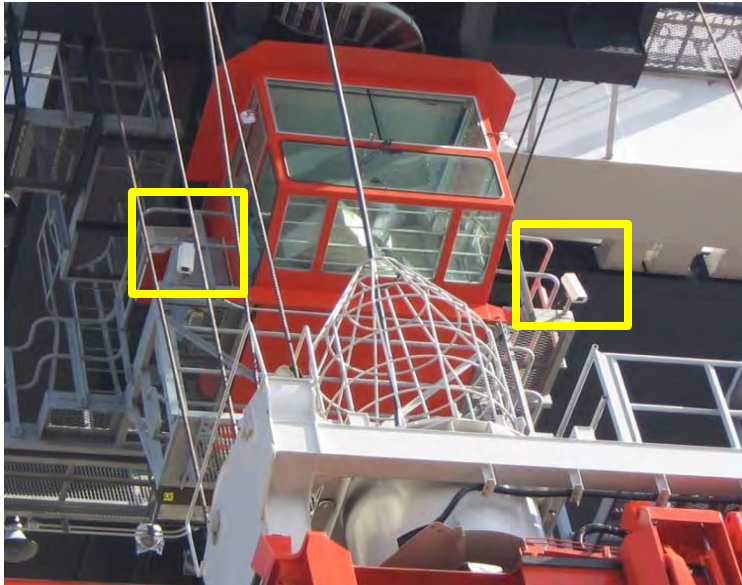
**How to drive safety and productivity with
greatest equipment efficiency in your
business at the lowest possible operational
cost ?**



Technology integration to ensures safe, predictable and reliable performance and higher profitability by reducing costs and increasing productivity.

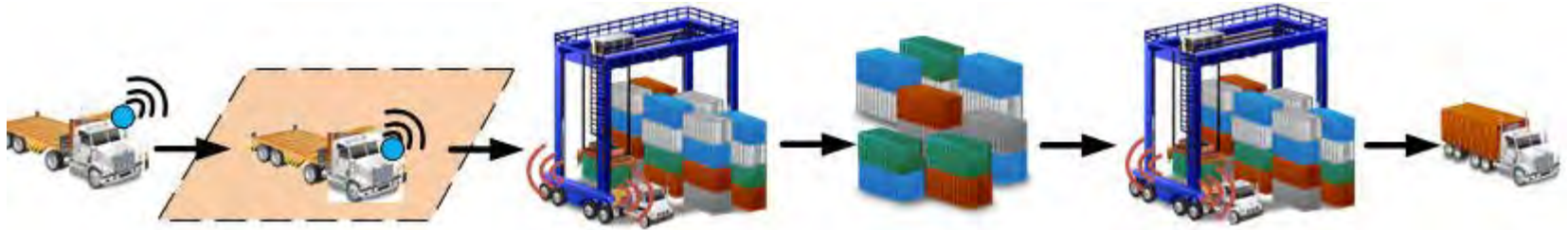
What is possible today ?

Quayside Automated Handoff



APM TERMINALS

Yard Automated Handoff

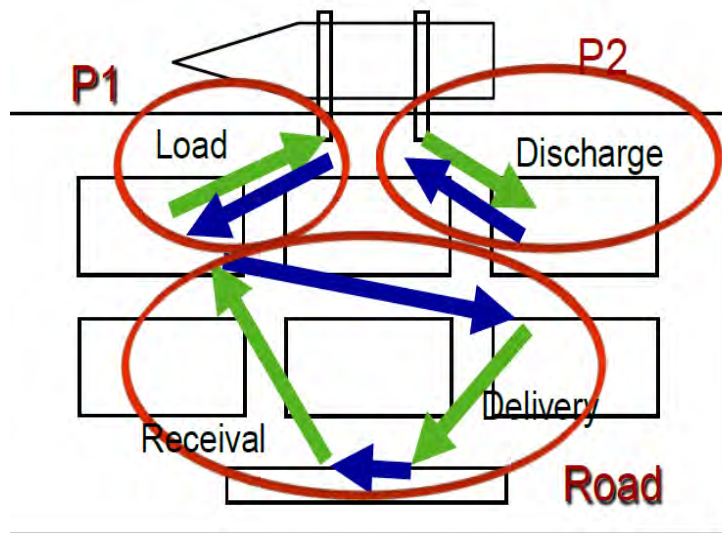


Automated Inventory



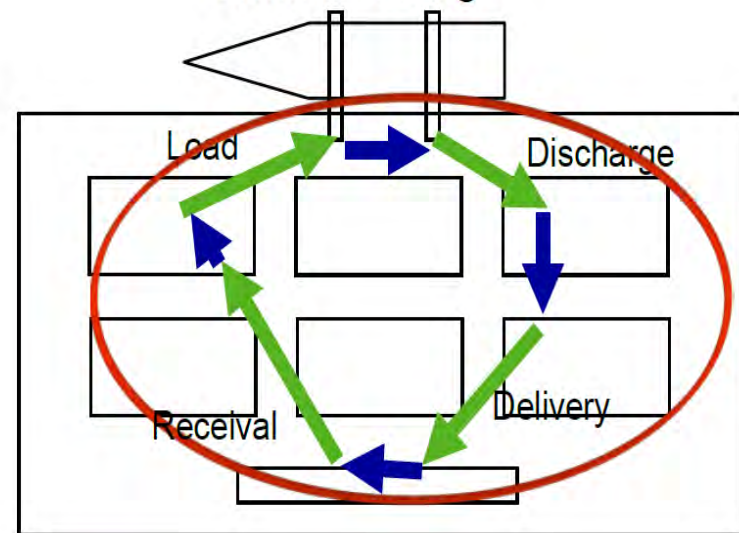
Trucks Global Pooling

Dedicated Pooling



➡ Unladen = unproductive

Global Pooling



➡ Laden = Productive

What is possible tomorrow ?

Future

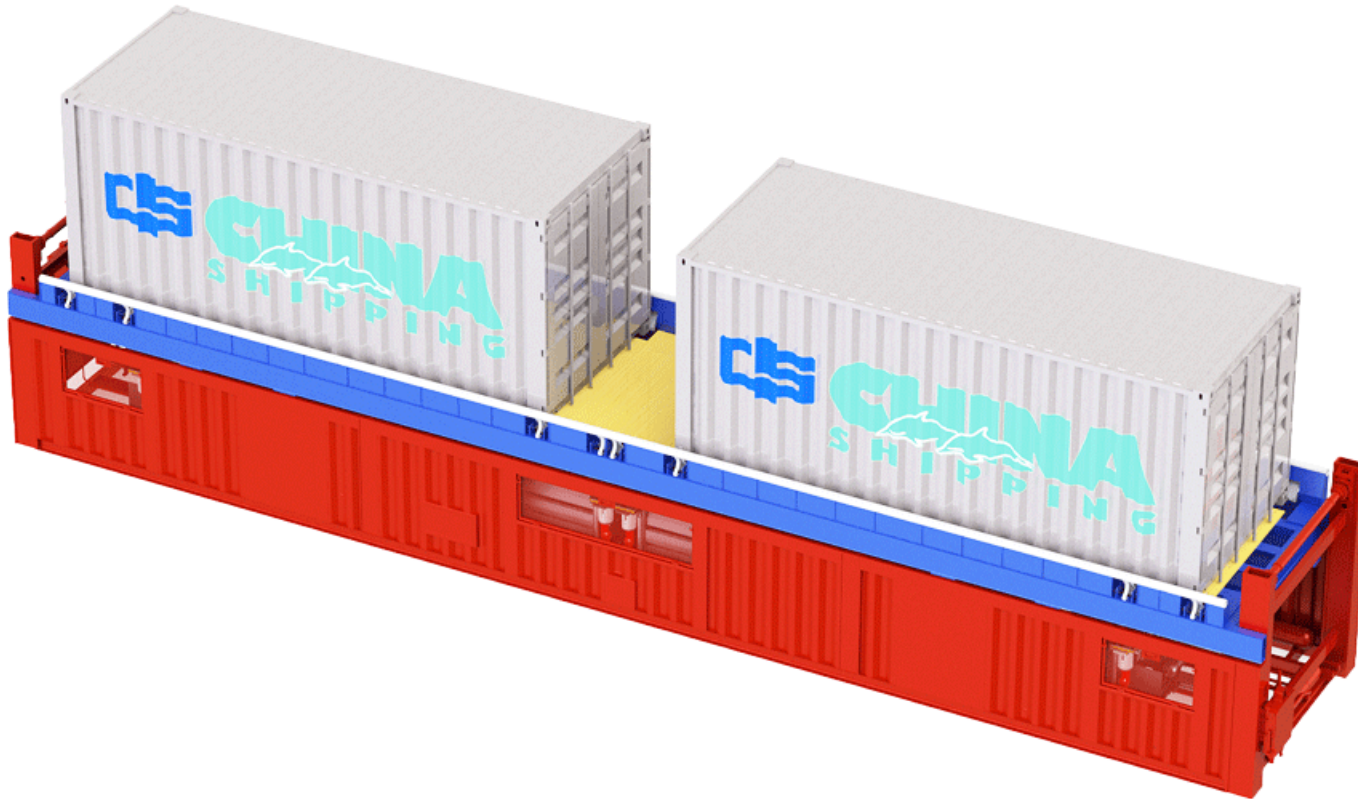
STS remotely controlled operation





Electric AGVs for horizontal Transport

Automated Lashing platform





Google Glass for M&R



www.apmterminals.com