





50 years ago ...

Pre-container general cargo

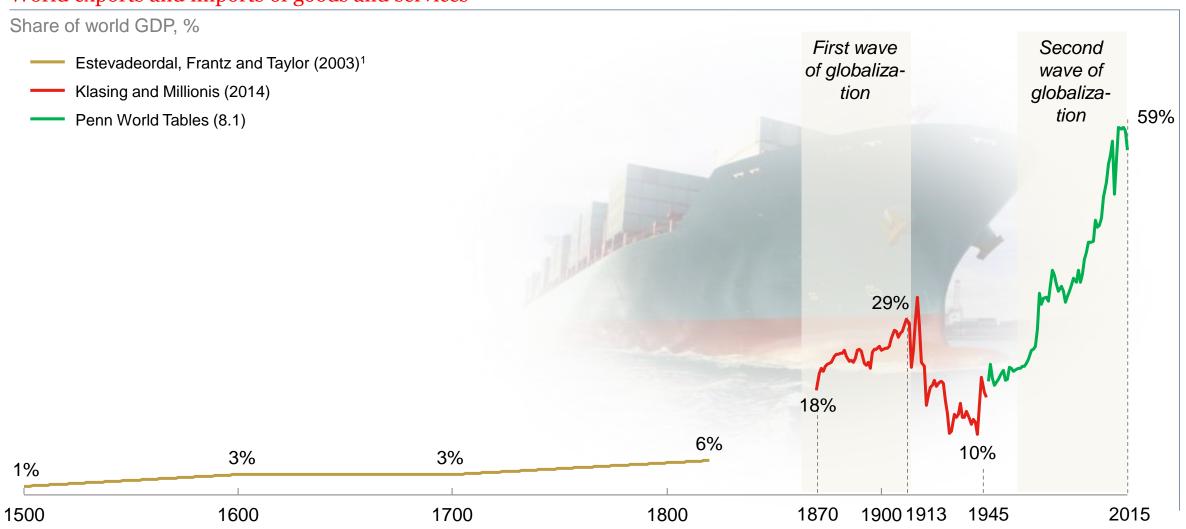




MV Fairland, Bremen, 1966

We've been living in an unprecedented era of trade growth



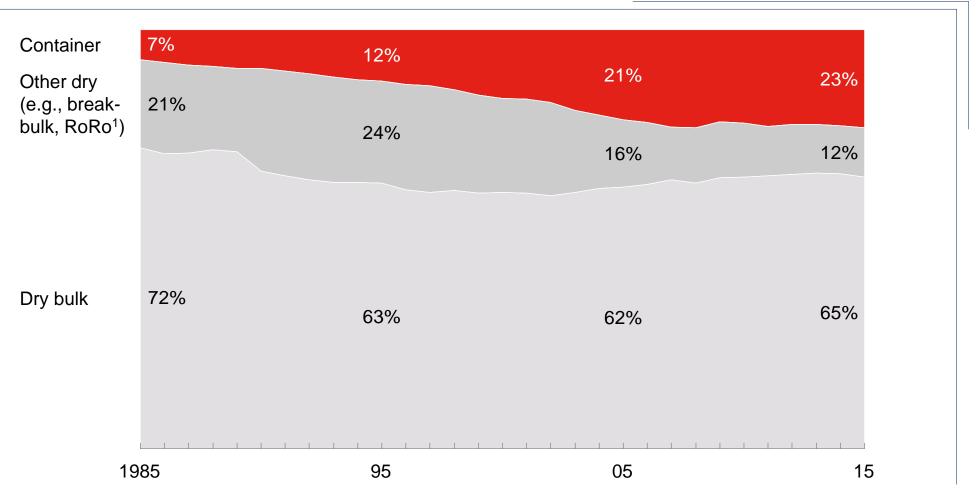


¹ Simple average of lower- and upper-bound estimates.

Containerisation has slowed considerably since the early 2000s – but is unlikely to reverse

Container share of dry seaborne trade

% of total dry seaborne trade tons



1 Roll-on, roll-off

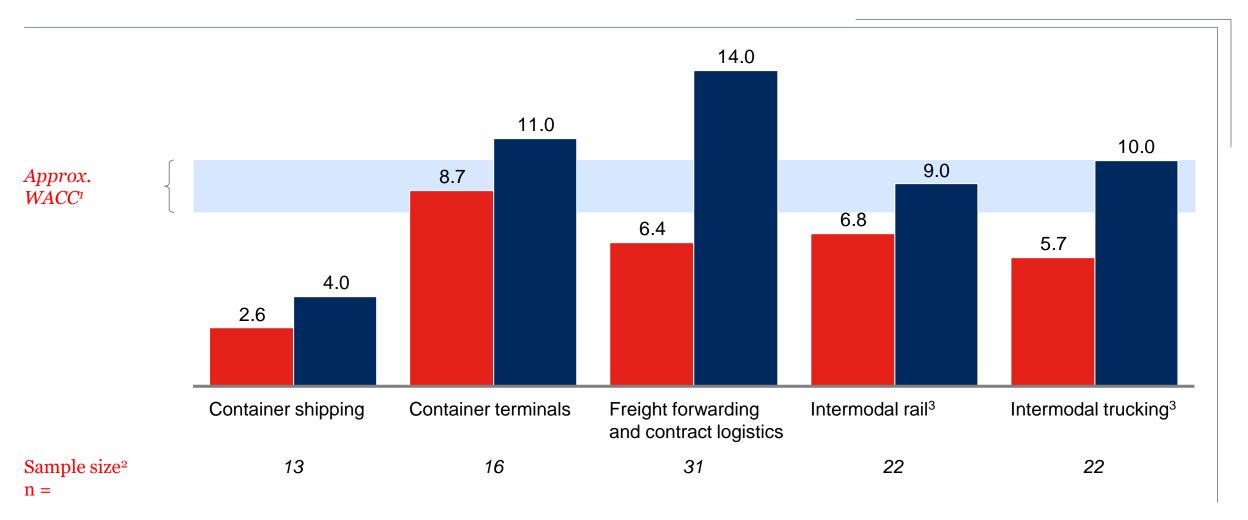
SOURCE: IHS, McKinsey analysis

The container transport industry has struggled to return its cost of capital in the last two decades

Average ROIC

Top-quartile ROIC

Average return on invested capital (ROIC), %, 1995-2016

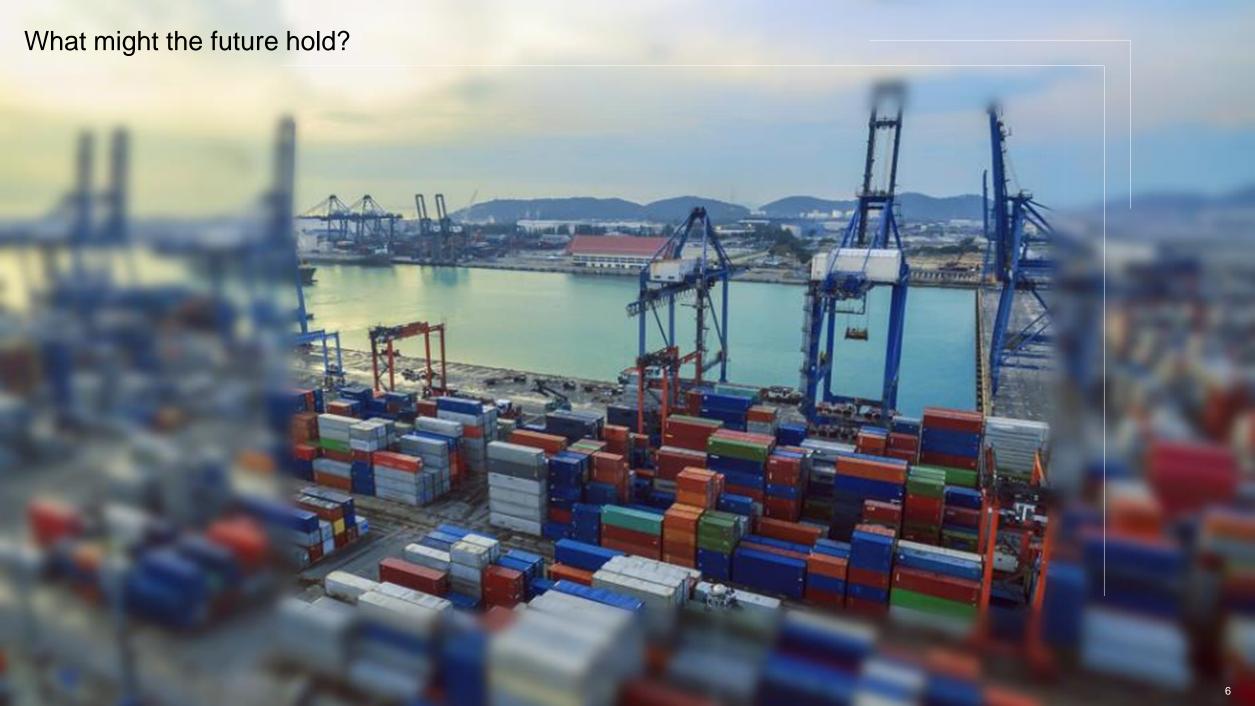


¹ Weighted average cost of capital; estimated at 8-10%

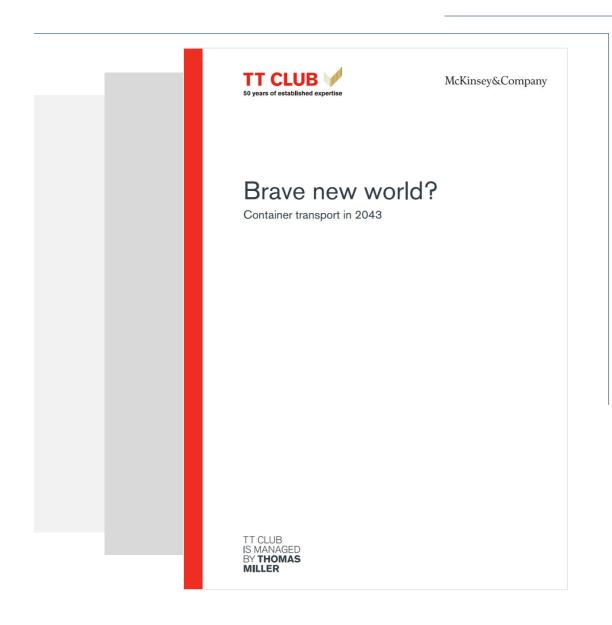
SOURCE: Capital IQ, McKinsey analysis

² Sample size varies across years due to data unavailability

³ Includes non-containerized transport



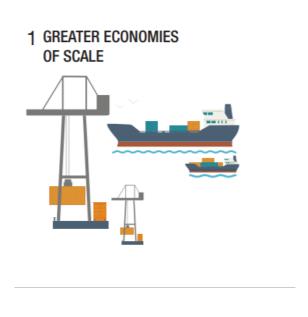
Looking forward ...



What fundamentally drives industry value-creation over the next 25 years?

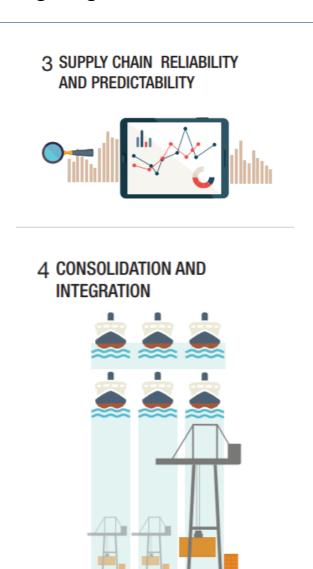
- Trade growth?
- Digital, data, analytics?
- Something else?

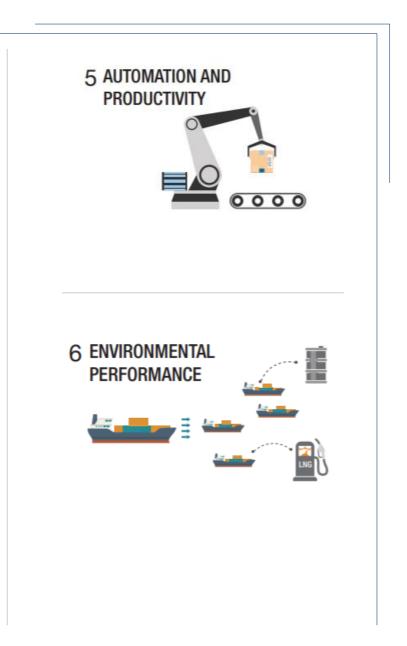
Six (potential) sources of value creation going forward











Future #1: Third wave of globalisation

Trade demand



Re-acceleration of trade growth



Container captures significant share from bulk

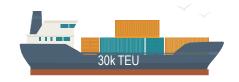
Specialisation results in significant supply chain fragmentation



China manages slowdown while India grows >10% p.a.



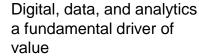
Sector economics



Scale economies become important again faster than expected: ~30k TEU ships within 10 years



Continued prominence of hub-and-spoke networks







Considerable automation across value chain (ships, ports, rail, trucks)





Industry structure



Room for both "digital natives" and incumbents

Freight forwarders digitise and are key nodes in ecosystem

7+ incumbents and "long tail" of point-to-point players





Alliances remain important and expand scope

Vertical integration proves to be of limited value

Future #2: "Peak container" & consolidation

Trade demand



Further slowdown of trade growth



No more containerization Market stays flat at **23%**

Increasing share of "local for local" supply chains



China's export engine sputters and India does not achieve "breakout" growth



Sector economics



Scale economies lose salience because insufficient demand to fill ships



Hub-and-spoke networks; more trans-shipment





Digital, data, and analytics only an "overlay"

Gradual automation, especially landside (ports, rail, trucks)





Industry structure



Freight forwarders digitize faster than asset owners and avoid disruption

Accelerated consolidation resulting in 3-4 leading liners







Vertical integration proves to be of limited value

Alliances less valuable

"Digital natives" play in the margins; no entry by "digital giants"



Future #3: Digital reinvention

Trade demand





"Slow and steady" trade growth



Modest additional containerization

Shorter, more diverse supply chains (e.g., India to China, Africa to Europe)





China manages slowdown, India does not achieve "breakout" growth

Sector economics



Scale economies lose salience; flexibility is valued



Smaller ships, more point-to-point, less transshipment



Digital, data, and analytics a fundamental driver of value



Considerable automation across value chain (ships, ports, rail, trucks)



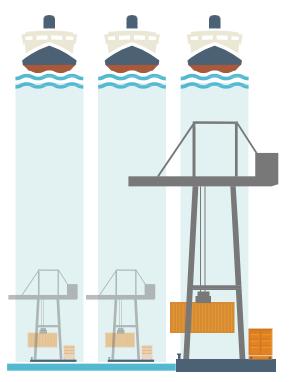


Industry structure

4-5 major incumbents and "long tail" of point-to-point players

Vertical integration enables digitisation and provision of E2E supply chain services

Freight forwarding radically shifted to a digital model



Future #4: Digital disruption

Trade demand



Reduced friction via digital unlocks new exporters/importers



Modest additional containerization

Shorter, more diverse supply chains (e.g., India to China, Africa to Europe)









China manages slowdown, India does not achieve "breakout" growth

Sector economics



Scale economies lose salience; flexibility is valued



Smaller ships, more point-to-point, less transshipment



Digital, data, and analytics a fundamental driver of value



Considerable automation across value chain (ships, ports, rail, trucks)

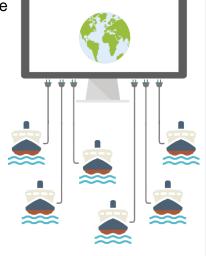




Industry structure

Digital giants provide the platform / selectively own physical assets to optimise chains

"Uber-ization" of container transport: proliferation of carriers acting as "dumb pipes"





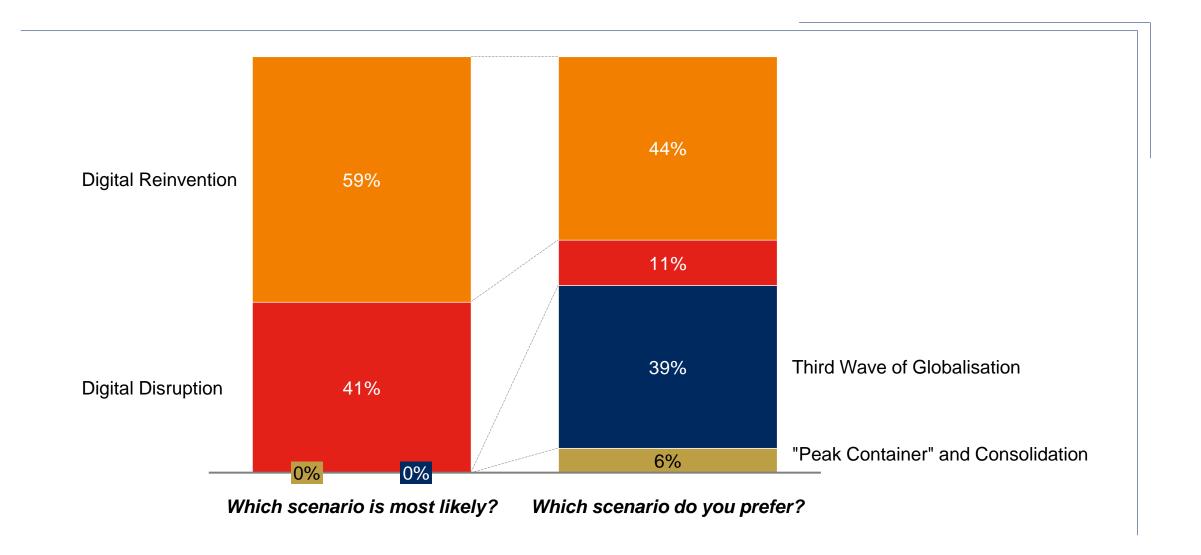
Vertical integration led by "digital giants" - enables digitization and provision of E2E supply chain services

Freight forwarding becomes totally digital



The future is digital

Responses of TT Club directors (November 2017)



Concluding thoughts

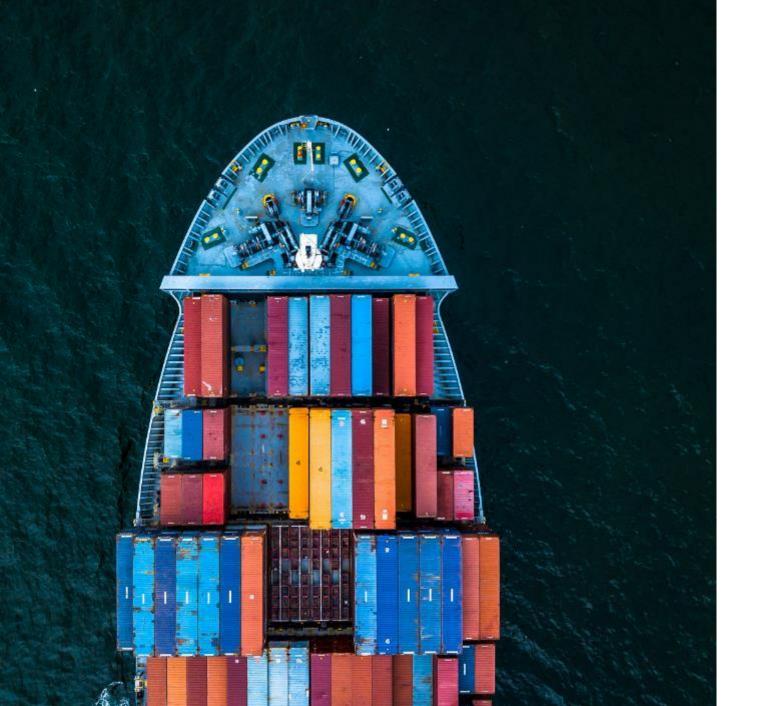
It is far too easy to be pessimistic about the future – there is more opportunity than we tend to think

The future is digital – some will win (big) while others will lose

The winners will focus on innovation to delight the customer and make bold moves

The license to operate – e.g., environmental performance, safety – will become more important





See the report:

ttclub.com/tomorrow

Thank you!

Oscar Egerstrom

oscar.egerstrom@thomasmiller.com



Matt Stone

matt_stone@mckinsey.com

McKinsey & Company