



Introduction

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Ocean Shipping Consultants (OSC) is the maritime economic consultancy group of Royal HaskoningDHV, and a leading brand in the maritime sector with more than 35-years of experience

Key profile **Top International Design Firm** Resources 5,700 employees Ranked 4th in Top International

- Originally founded in 1881 138 years of experience
- Turnover €607m (2017)

Design Firms - Marine & Ports by ENR (2018)

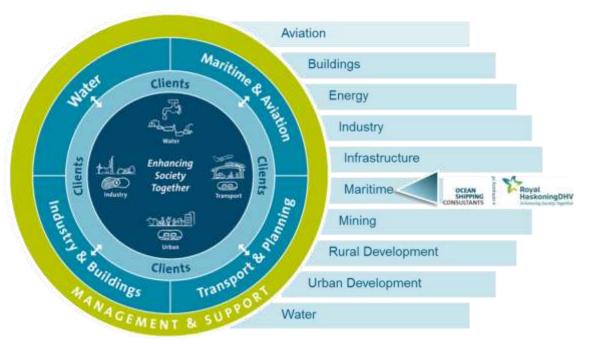
- 100 offices in 35 countries
- 650 dedicated ports and maritime professionals

OCEAN

With over 350 projects in more than 65 countries successfully completed over the last 5 years, OSC provides global bespoke consultancy services from offices in London, the Netherlands and

Singapore to more than 200 different clients, including port authorities, terminal operating companies, governments, shipping lines, logistics operators and the wider financial community.

These range of services are undertaken for all cargo types and sectors ensuring that clients are able to make appropriate, well informed decisions at all times.





- Market Study
- Due Diligence
- Feasibility Study
- Strategy
- Investment Services
- Publication
- Logistic Study
- Benchmark / Operations







Be patient, history is on your side

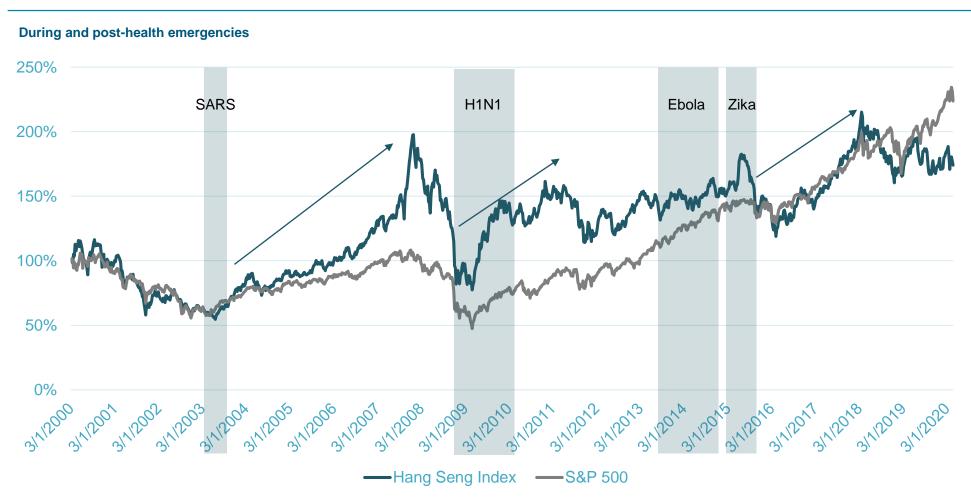
Spotlight topic: Impact of CoVid19 on the stock market



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Against the backdrop of epidemics, bargain hunters are positioning for an entry.



Source: Yahoo Finance, adjusted returns since Jan 2000



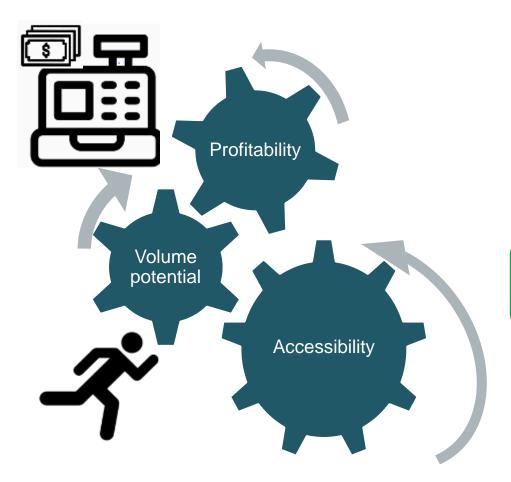


Can invest, you said. Where?



For terminal operators

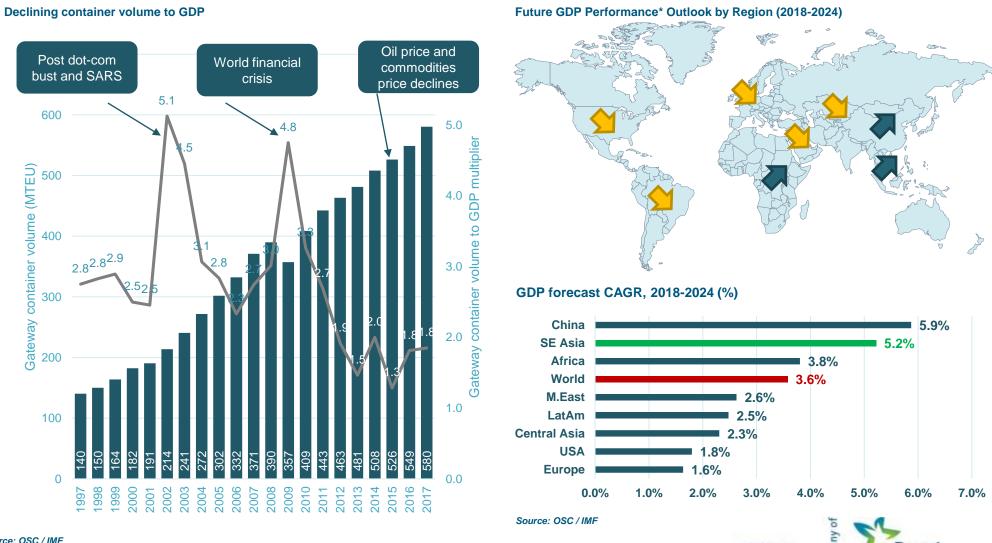
Three essential considerations: Accessibility, Volume Outlook, Profitability



	Accessibility	Volume	Profitability
Singapore			
Indonesia			
Malaysia			
Vietnam			
Myanmar			
Cambodia			
Philippines			
Thailand			
Brunei			



SE Asia and China are expected to outperform other regional economies.



Source: OSC / IMF

^{*}Performance as compared to Average World GDP Growth

The declining TEU/GDP multiplier is driven by underlying changes in the market.

Less offshoring, More near/onshoring:

- Offshoring to lower-cost countries is a onetime effect
- Increased reshoring (e.g. US)
- Chinese economy shifts toward domestic consumption / regional sourcing

Plateauing in the levels of containerization:

- Most commodities suitable for containerized transportation have already been migrated to containers
- Increasing trend toward miniaturization of manufactured goods

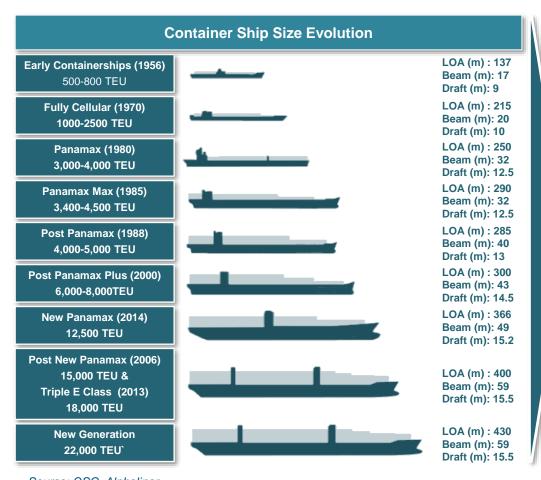
Improvement of port facilities to accommodate larger ships:

- More ports can be part of direct main line services
- Cascading of vessels means larger ships deployed on secondary routes
- Reduced need for transhipment



Global Economic Outlook & the Container Shipping Sector

Driven by market share & economies of scale, the ship size revolution has continued



Effect of Container Shipping Market

- Larger container volume exchanges on primary trade routes, but with a lower port call frequency
- Cascading of vessels as replaced ships are moved to other Secondary and Tertiary trade lanes
- Formation of fewer, larger alliances in an effort to maximise vessel utilisation



Following structural changes, there will be an equilibrium. There has to be.

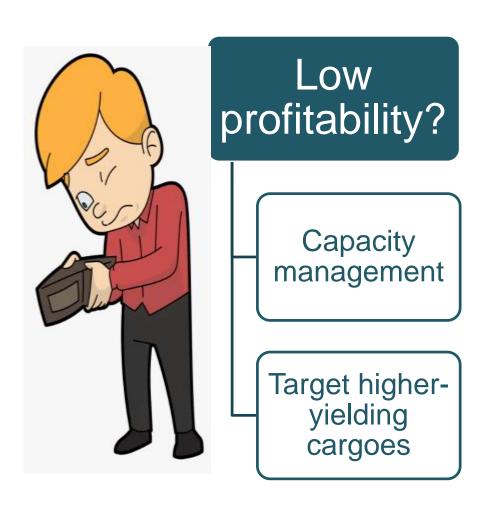
Compression in container volume growth to GDP growth multiplier

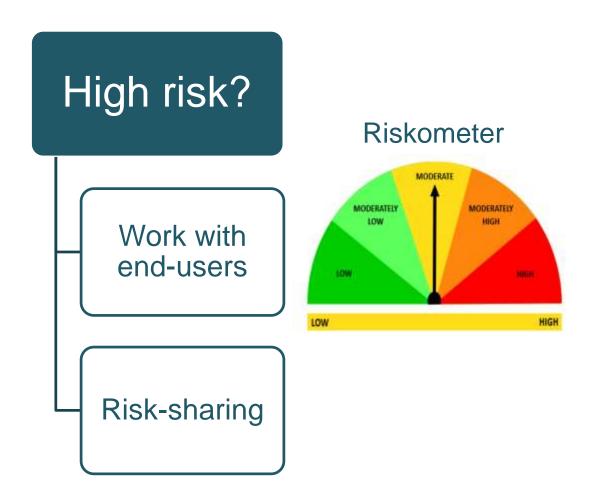
Ports face customers with stronger bargaining power

Move towards "smarting" ports



Business actions in response to structural changes







Financial risks and returns of ports



Listed port companies have varying attributes for the two main types of investors.

Growth

- Significant exposure to developing markets
- Portfolio mix: Greenfield > Brownfield
- Rising profitability
- Manageable leverage
- Generally small to mid-capitalisation

Value

- Significant exposure to developed markets
- Portfolio mix: Brownfield > Greenfield
- Stable profitability
- Low financial leverage
- Sustainable dividend yield
- Share purchase plan



Listed port operators and their throughput growths

	Listing	Market capitalisation	Portfolio e	Portfolio exposure Reported			ed handling volume (TEU)		
	Country	USD'm	Markets	Container nature	2017	2018	Growth		
DP World	Dubai	11,720	Emerging	Gateway	70,079	71,419	1.9%		
ICTSI	Manila	5,064	Emerging	Gateway	9,153	9,737	6.4%		
China Merchants Port	Hong Kong	5,372	Emerging	Gateway	102,900	109,060	6.0%		
Cosco Shipping Ports	Hong Kong	2,734	Emerging	Gateway	87,932	98,045	11.5%		
HPH Trust	Singapore	1,350	Developed	T/S	24,281	24,029	-1.0%		
Global Ports	London	535	Emerging	Gateway	1,205	1,352	12.2%		
Hamburger Hafen	Berlin	1,802	Developed	Gateway	7,196	7,336	1.9%		
Westports	Kuala Lumpur	3,346	Emerging	T/S	9,020	9,520	5.5%		
Port Sihanoukville (PAS)	Phnom Penh	344	Emerging	Gateway	460	541	17.7%		
Phnom Penh Port (PPAP)	Phnom Penh	50	Emerging	Gateway	185	205	11.0%		



Growth and value investing in ports

Profitability and leverage of listed terminals. EBITDA margin between 30% and 60%, and leverage at about 3 times EBITDA.

	Sales		Profitability			Leverage		Shareholders	
	Revenue (USD'000)	growth	EBITDA (USD'000)	EBITDA margin	EBITDA growth	Net debt (USD'000)	Net debt to EBITDA	PATMI (USD'000)	Yield (%)
DP World	5,646,280	19.8%	2,808,000	49.7%	13.7%	7,937,289	2.8x	1,270,116	3.1%
ICTSI	1,385,785	11.4%	642,221	46.3%	11.1%	859,974	1.3x	221,494	2.3%
China Merchants Port	1,295,918	16.9%	1,018,367	78.6%	170%	4,040,944	3.1x	465,944	7.7%
Cosco Shipping Ports	1,000,350	57.6%	652,800	65.3%	-18.0%	1,873,214	2.9x	324,583	4.7%
HPH Trust	382,577	5.0%	212,806	55.6%	7.5%	3,204,477	15.1x	23,316*	9.8%
Global Ports	343,575	4.0%	219,128	63.8%	10.2%	780,336	3.6x	-59,279	Nil
Hamburger Hafen	1,390,629	3.1%	329,025	23.7%	8.5%	237,751	0.7x	113,712	3.6%
Westports	386,549	-5.9%	238,870	61.8%	7.3%	252,740	1.1x	127,686	3.2%
Port Sihanoukville (PAS)	68,127	21.2%	24,727	36.3%	13.5%	100,180	4.1x	11,265	1.6%
Phnom Penh Port (PPAP)	20,723	9.9%	11,716	56.5%	12.4%	2,914	0.2x	8,101	2.6%

Port stocks are unloved.

Key figures	2018	2017	2016	Key figures	2018	2017	2016
Consolidated Income Statement, USD Mil				Consolidated Statement of Cash Flows, USD Mil			
Revenue from operations	5,646.3	4,714.7	4,163.3	Net cash from operating activities	1,951.5	2,207.9	1,844.5
Adjusted EBITDA	2,808.0	2,469.0	2,263.1	net dan nom operating activities	1,551,5	2,207.5	1,011.5
Net finance costs	-435.0	-329.9	-338.1	Net cash (used in)/from investing activities	-2,107.0	-586.0	-1,258.9
Profit for the year	1,332.8	1,362.5	1,259.5	Net cash used in financing activities	1,326.9	-1,481.4	-701.3
Profit attributable to Owners of the Company	1,270.1	1,208,5	1.176.6	Cash and cash equivalents as at 31 December	2,614.7	1,483.7	1,299.4
				Key indicators			
Consolidated Statement of Financial Position, USD Mil				Basic Earnings Per Share, US cents	156.2	141.8	123.4
Total assets	26,513.3	26,513.3	23,113.9	Earnings Per Share exc SDI, US cents	153.0	145.6	135.7
Total equity	11,998.9	11,625.4	9,519.7	Adjusted EBITDA margin, %	49.7	52.4	54.4
Total liabilities	14,514.4	11,488.5	11,184,6	Return on Capital Employed, %	8.4	8.8	9.5

[&]quot;Returning to private ownership will free DP World from the demands of the public market for short term returns." – DPW Chairman Interpretation: I feel more appreciated by bondholders, with an alignment of long-term interests. Meanwhile....

"The transaction will weaken the overall credit profile of DP World." - Moody's Vice President is reviewing DPW bonds





Conclusion

In conclusion...

For terminal operators: Accessibility, Volume outlook and Profitability

Structural changes in the sector, look at company's business plan

For institutional and retail investors: look at the fundamentals (ie sustainability of dividends, leverage, supportive governments/policies).

➤ Be patient, history suggests the pull-backs could be buying opportunities.



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Our Global Locations – "OSC has offices strategically located to support our connectivity to the maritime market."



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