2019 CONTAINER SHIPPING OUTLOOK

Alan Murphy CEO and Founder Sea-Intelligence

April 9th, 2019 **TOC Asia**

Sea-Intelligence

Container Shipping Analysts

- Founded January 6th, 2011
- Fully independent, private company with no interests from brokers, banks or others.
- 10 Analysts, Developers & Consultants in Copenhagen, Bucharest and Singapore.
- 3-person Management Team with 60 years of experience in Container Shipping

Core values:

- Integrity
- Methodology
- Assumptions
- Data Quality

Major Milestones:

- 1,000+ Research & Analysis articles published since March 2011
- 5,000+ citations in Industry Press (Lloyd's List, JoC, etc.)
- World's most comprehensive database on Carrier Reliability
- Complete overview of all deep-sea networks and deployment
- Curriculum provider at the World Maritime University
- Curriculum provider at the Blue MBA at Copenhagen Business School

SeaIntel subscription reports

SeaIntel Sunday Spotlight (SSS) - Weekly



- Weekly report with groundbreaking container market analysis
- Quantitative insights into important market drivers
- Regular topics include:
 Supply/Demand, deployment
 patterns, freight rate analysis,
 environmental issues, reliability,
 and much more

Global Liner Performance (GLP) report - Monthly



- World's largest study of carrier ontime performance
- Report covering 65+ carriers, 300+ distinct carrier services/loops, 300+ ports, across 34 trade lanes
- 116 pages including global carrier performance Top20 and niche operators, benchmarking alliances and detailed trade performance

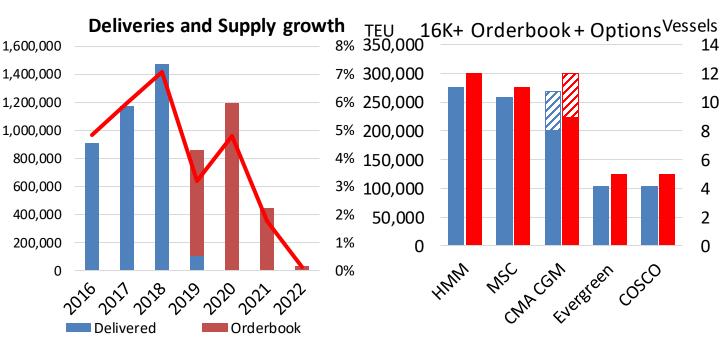
Tradelane Capacity Outlook (TCO) report - Weekly



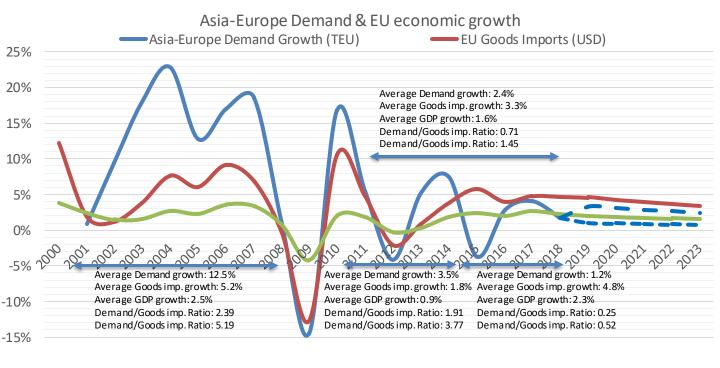
- 12-week future outlook on container space supply
- Most accurate and updated capacity deployment figures for 23 trade lanes between Asia, Europe, North and South America
- Based on actual vessel schedules of individual named vessels on all services in the trade lanes

Supply/Demand

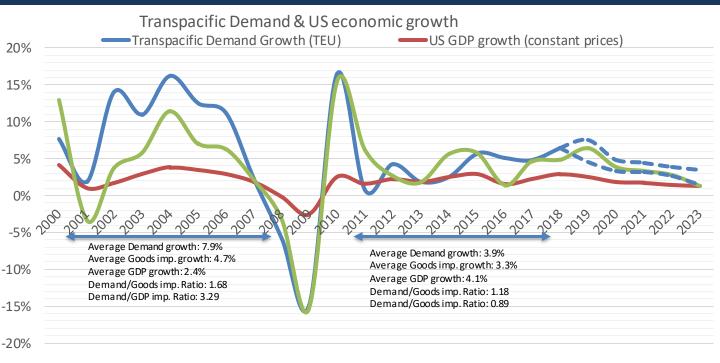
Restrained ordering, but still 43 mega-vessels in orderbook



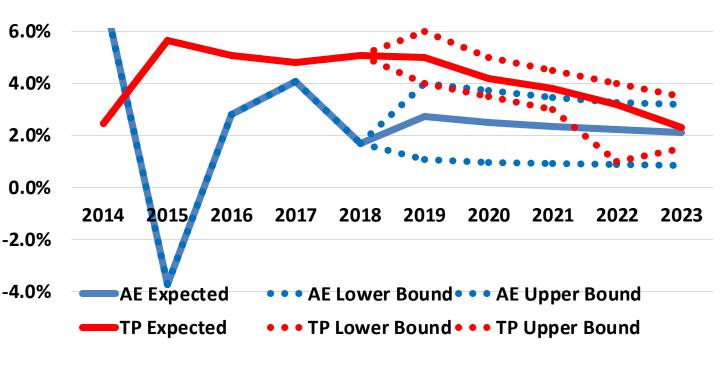
Weaker GDP/Goods ratio suggest 1-3% A-E demand growth



GDP/Goods models suggest TP demand heading to 2-3%

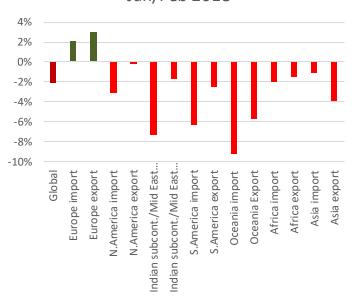


AE & TP Demand growth heading towards 2% Y/Y

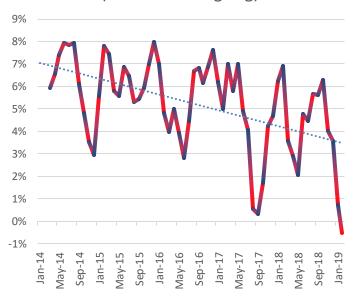


2019 Jan/Feb demand has been very weak





Y/Y global volume growth (3 month rolling avg)



Impact on carrier returns

2018 carrier revenues have been strong

Liner Carrier Revenue 2010-2018 in Million USD												
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2018-9M*	2017 Y/Y	
Maersk Line	26.038	25.108	27.117	26.196	27.351	23.729	20.715	22.023	28.366	21.556	28,8%	
CMA CGM	N/A	14.900	15.900	15.900	16.739	15.700	16.000	21.116	23.476	18.066	11,2%	
COSCO**	7.015	6.497	7.700	7.896	8.183	8.047	9.586	13.336	N/A	N/A	N/A	
Hapag Lloyd	8.222	7.964	9.044	8.997	8.309	10.029	8.138	11.966	13.192	9.966	10,2%	
ONE	N/A	8.055	N/A									
Evergreen***	N/A	N/A	4.837	4.622	4.545	4.148	3.839	5.069	5.534	4.263	9,2%	
OOCL	6.033	6.012	6.459	6.232	6.522	5.953	5.298	5.425	5.963	4.585	9,9%	
Yang Ming	N/A	N/A	4.508	3.947	4.246	3.954	3.559	4.412	4.638	3.567	5,1%	
ZIM	3.717	3.784	3.960	3.682	3.409	2.991	2.539	2.978	3.248	2.497	9,1%	
НММ	7.258	6.408	7.554	6.695	5.966	4.800	3.798	4.715	4.700	3.699	-0,3%	
Wan Hai	N/A	N/A	2.159	1.982	2.110	1.980	1.769	2.046	2.184	1.669	6,8%	

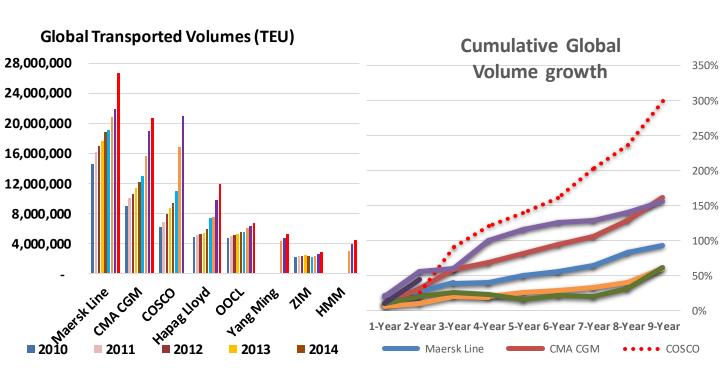
^{*}Q2-Q4 as originally reported **COSCO SHIPPING Holdings Co., Ltd. ***Evergreen Marine Corp. (Taiwan) Ltd.

2018 EBIT: Size matters!

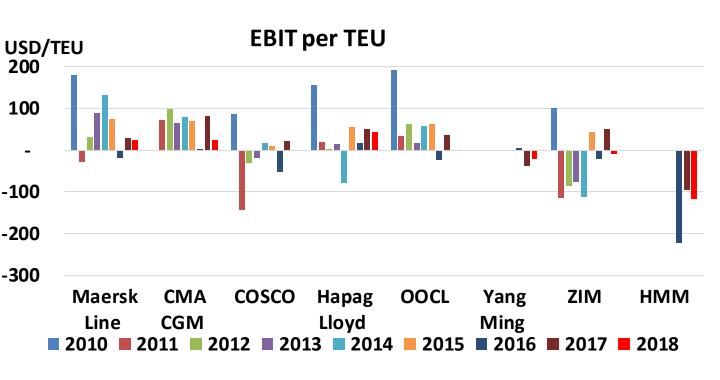
Liner Carrier EBIT/Operating Profit 2010-2018 in Million USD									Change Y/Y	SUM EBIT		
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2018-9M*	Delta 18-17	Sum 2012-18
Maersk Line**	2.642	-482	525	1.571	2.504	1.431	-396	641	627	630	-14	6.903
CMA CGM	N/A	729	1.034	756	973	911	29	1.574	494	406	-1.080	5.771
COSCO***	543	-997	-242	-161	165	121	-884	434	N/A	N/A	N/A	N/A
Hapag Lloyd	772	105	3	87	-467	416	133	493	508	441	14	1.173
ONE****	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-490	N/A	N/A
Evergreen****	N/A	N/A	-38	-26	118	-119	-242	162	30	31	-132	-115
OOCL	919	175	328	90	329	353	-138	232	N/A	N/A	N/A	N/A
Yang Ming	N/A	N/A	-67	-200	88	-200	-454	26	-185	-114	-211	-993
ZIM	223	-276	-206	-191	-263	98	-52	135	-29	-27	-164	-508
HMM	509	-309	-478	-343	-215	-238	-690	-381	-519	-366	-137	-2.865
Wan Hai	N/A	N/A	98	74	170	125	58	106	32	27	-74	662

*Q2-Q4 as originally reported **2017&2018: Group EBIT, rest: Maersk Line EBIT ***COSCO SHIPPING Holdings Co., Ltd. ****Net result *****Evergreen Marine Co

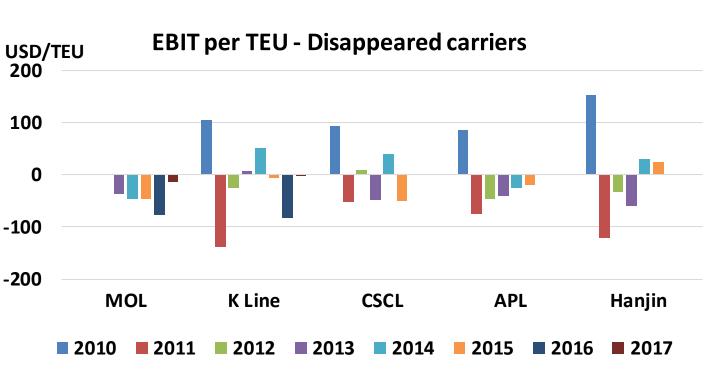
Most carriers grew around 10% in 2018



EBIT/TEU: Confirms that size matters

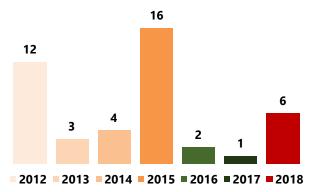


EBIT/TEU: Never forget the friends we lost

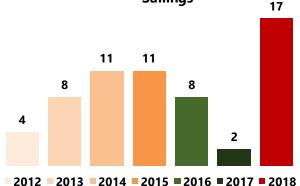


Carriers re-introduced peak season blanking in 2018

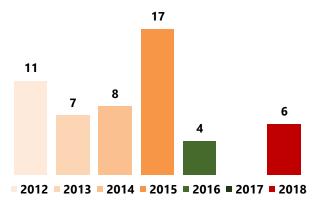




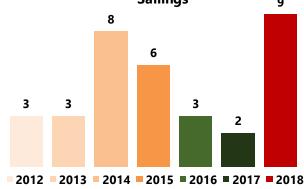
Asia-North America West Coast Q3 Blank Sailings



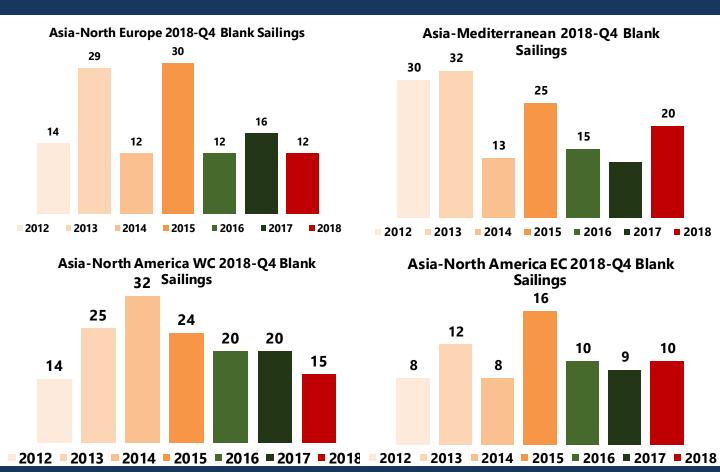
Asia-Mediterranean Q3 Blank Sailings



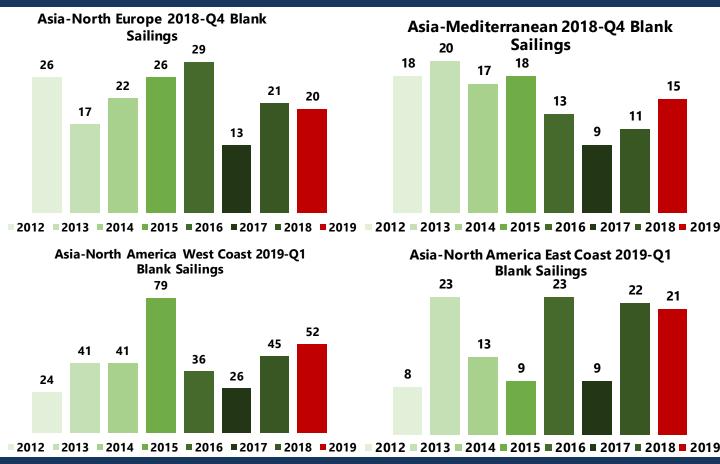
Asia-North America East Coast Q3 Blank
Sailings



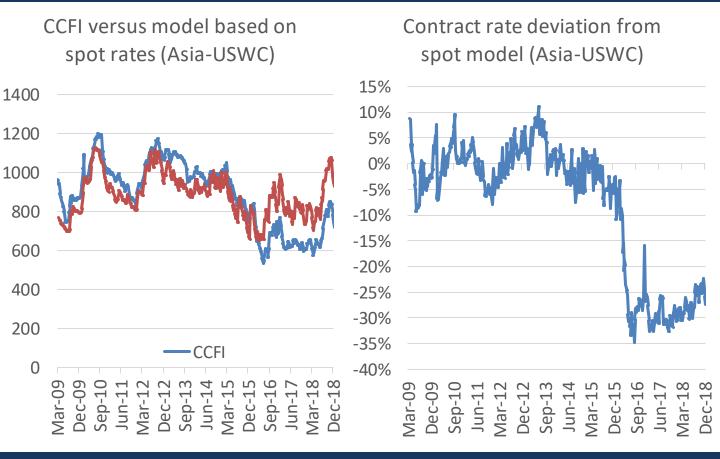
But 2018-Q4 blank sailings were a bit more modest



And 2019-Q1 blank sailings are in the higher end

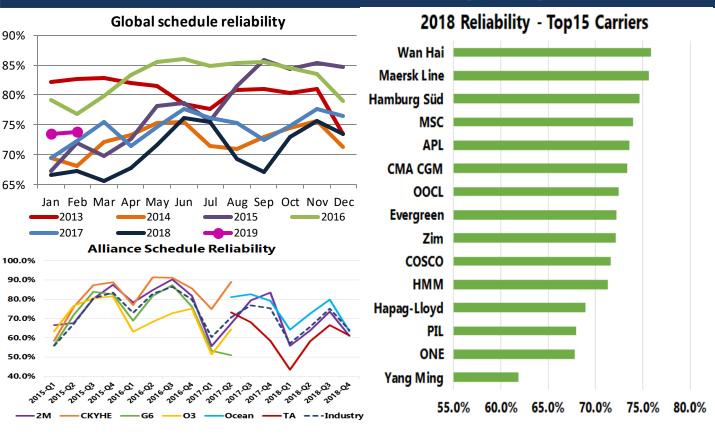


Modeling TP contract rates on spot suggests a 20% increase

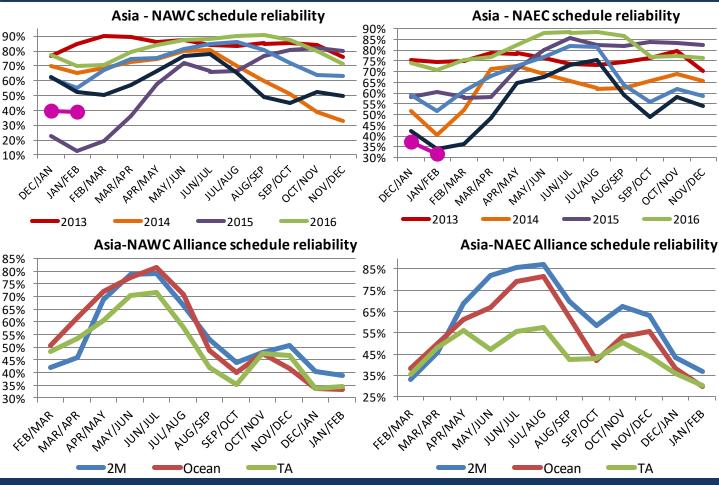


Impact on service levels

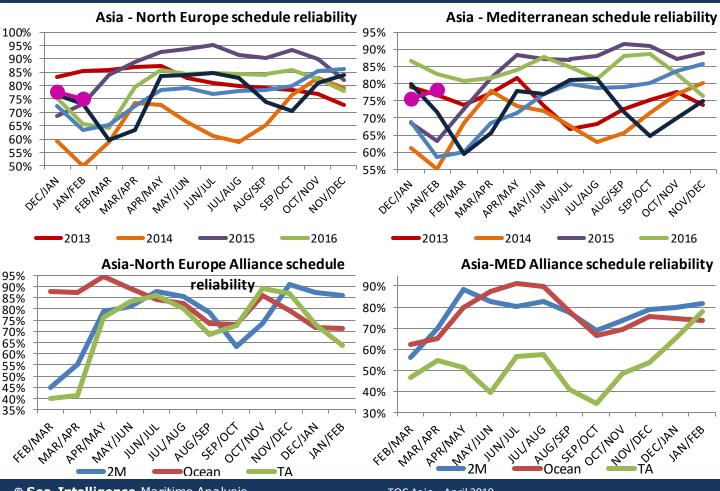
2018 saw the worst reliability in 7 years



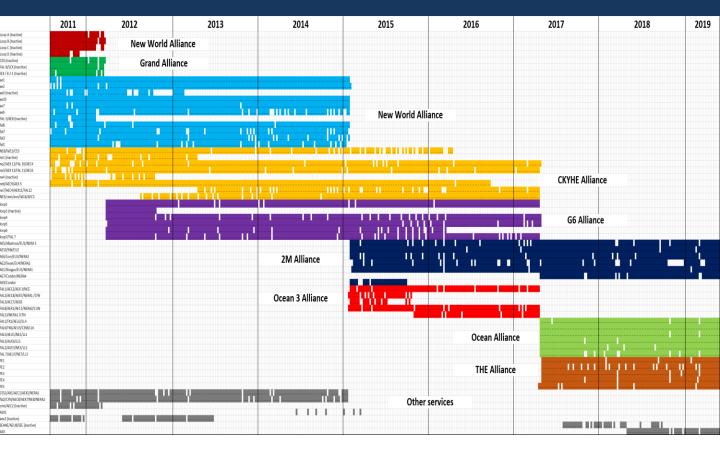
2018 reliability especially bad in Transpacific



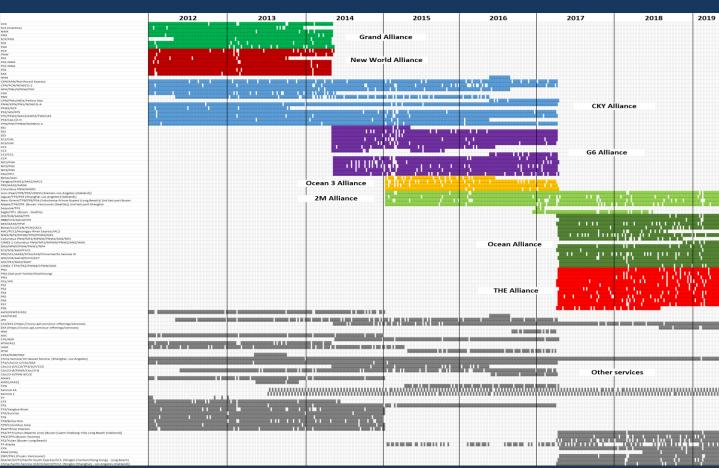
Asia-Europe not quite as bad



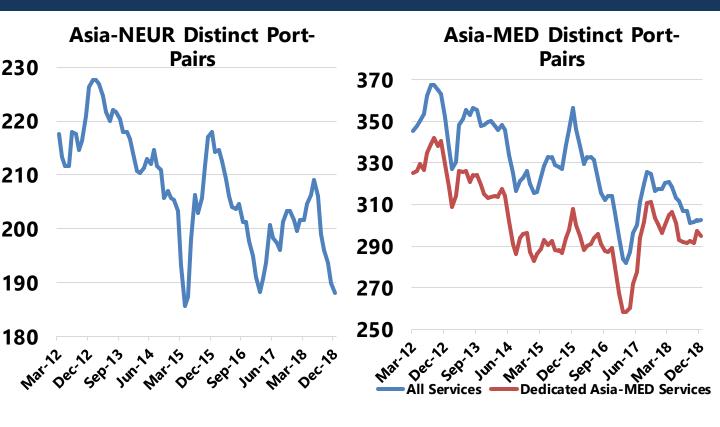
Asia-NEUR service disruptions



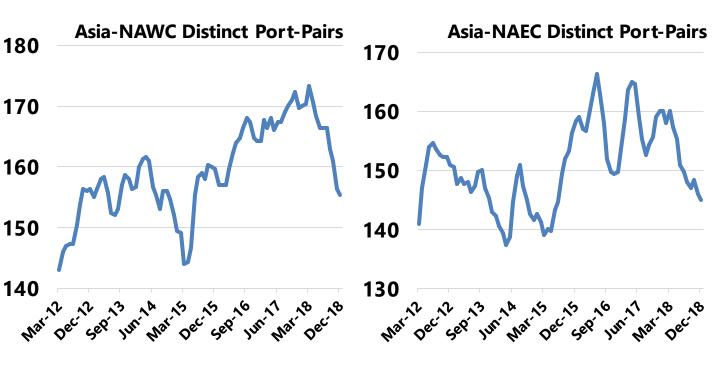
Asia-NAWC service disruptions



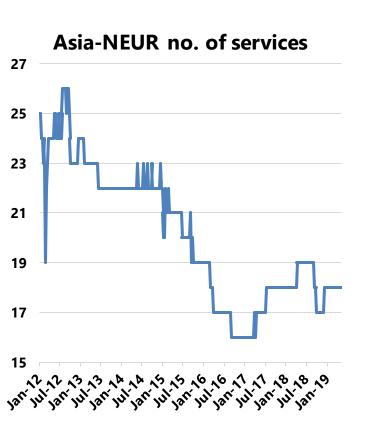
No. of direct ports has steadily declined

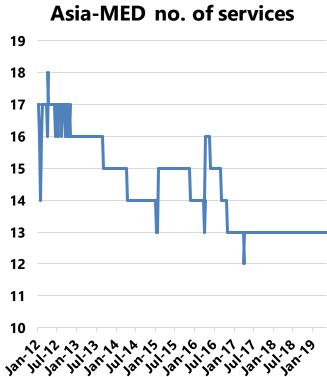


Direct TP port-pairs see a sharp decline in 2018

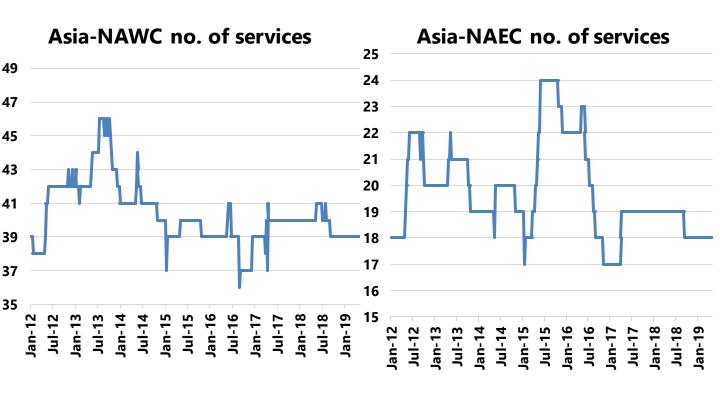


No. of Asia-Europe services on decline





No. of Transpac services seems to have stabilised



Concluding remarks

Things are gradually getting better for the shipping lines, but service levels are poor

- Supply/Demand balance slowly improving, with a pre-2009 balance possible by 2022-2023
- The market consolidation has mitigated the worst excesses of the past
- Service levels have been very poor in recent years

There are a number of major risks to this outlook

- If carriers fail to pass on the IMO 2020 bunker costs, they will be forced to lay up significant tonnage, with massive disruptions to service networks.
- Demand is slowing down to a long-term growth rate of 2-3% on the main East-West trades.
- The EU Commission may end the Block Exemption Regulation in 2020, making alliances and VSAs more difficult to set up, and more costly to run.
- Irrational vessel ordering (HMM?) could lead to a price war.

In the short term, expect carriers to fight for rate increase on TP

- Contract rates are 20% below comparable spot rates, and carriers showed in the 2018 peak season they are ready to cut capacity deep in order to get rates up.
- Service levels are likely to remain poor, at least to the turn of 2020.

Notes on the 2020 IMO Low-Sulphur requirement

No-one knows what the impact will be

We can't reliably predict oil prices

No-one knows what the premium will be for Low-Sulphur MGO in 2020

Best estimate is that MGO will trade at the current premium (+50%)

Current Global 20 Ports Average HFO Bunker price is 424 USD/MT

Reasonable estimate that cost to liners will be USD 10-15bn

approximately 65 million MT of

At a USD premium of 50%, this translates into an added cost of:

50% * 424 USD/MT * 65 million
MT/A/ttærna1B/A/8:Billions b/SiD/ Year

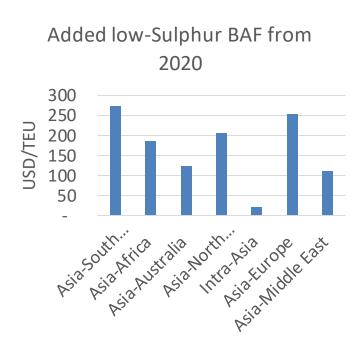
2Bn. Maersk capacity market

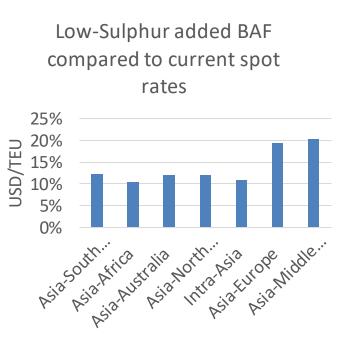
Top-12 liners 2012-17 EBIT: USD 8.6Bn

1												
Table	Table B3: Segment EBIT/Operating Profit 2010-2017 in Million USD											
	201	10	2011	2012	2013	2014	2015	2016	2017	Delta 17-16	2012-17	
Maersk Line	2	2.642	-482	525	1.571	2.504	1.431	-396	700	1.096	6.335	
CMA CGM	N/A		729	1.034	756	973	911	29	1.575	1.546	5.278	
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Evergreen**	N/A	1	N/A	-38	-26	118	-119	-242	162	404	-145	
OOCL		919	175	328	90	329	353	-138	232	370	1.194	
Yang Ming	N/A	1	N/A	-67	-200	88	-200	-454	26	480	-808	
MOL***		344	346	-23	-114	-203	-190	-320	-63	257	-913	
NYK***		321	-433	-154	-14	41	40	-106	140	246	-54	
K Line***		331	-435	-84	25	159	-17	-253	-5	248	-175	
ZIM		223	-276	-206	-191	-263	98	-52	135	187	-479	
нмм		509	-309	-478	-343	-215	-238	-690	-382	309	-2.347	
Wan Hai	N/A		N/A	98	74	170	125	58	106	48	630	

^{*}COSCO SHIPPING Holdings Co., Ltd. **Evergreen Marine Corp. (Taiwan) Ltd., ***Only Liner Segment

Spread across trades based on volume, distance and imbalance



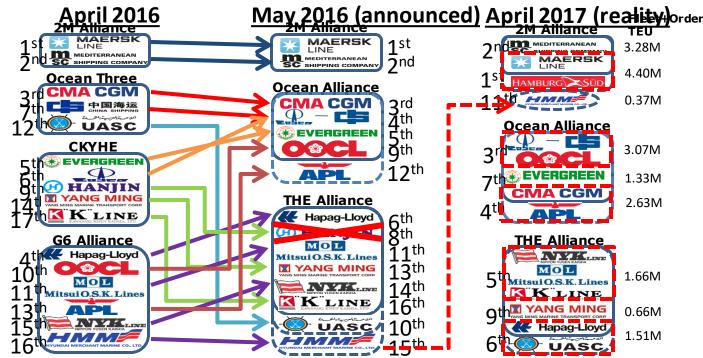


Major carriers have announced their BAF formulas

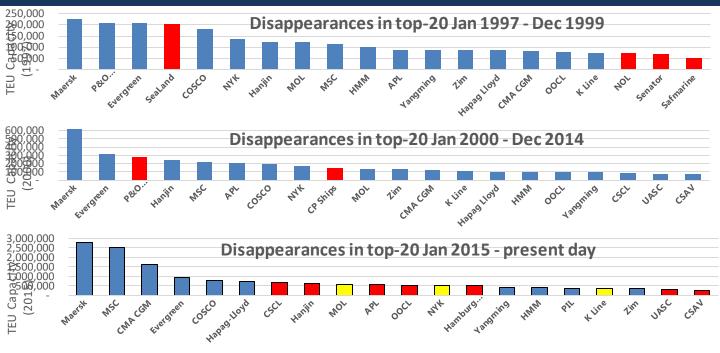
	Ne	w BAF leve	els per carri	er (USD/TE	U)			
Bunker price (USD/ton)	400	450	500	525	550	600	650	700
Asia-North Europe								
MaerskLine	240	270	300		330	360	390	420
MSC	248	279	310		341	372	403	434
Hapag-Lloyd	213			262			311	
ONE Line			125		153	180	208	236
North Europe - Asia								
MaerskLine	140	157,5	175		192,5	210	227,5	245
MSC	96	108	120		132	144	156	168
Hapag-Lloyd	213			262			311	
ONE Line			100		122	144	166	188
Asia-USWC								
MaerskLine	195	219,5	244		268	292,5	317	341,5
MSC	200	225	250		275	300	325	350
Hapag-Lloyd	130			161			191	
ONE Line			90		112	135	157	179
USWC-Asia								
MaerskLine	45	50,5	56,5		62	67,5	73	79
MSC	40	45	50		55	60	65	70
Hapag-Lloyd	130			161			191	
ONE Line			46		57	68	79	81

Alliances and consolidation

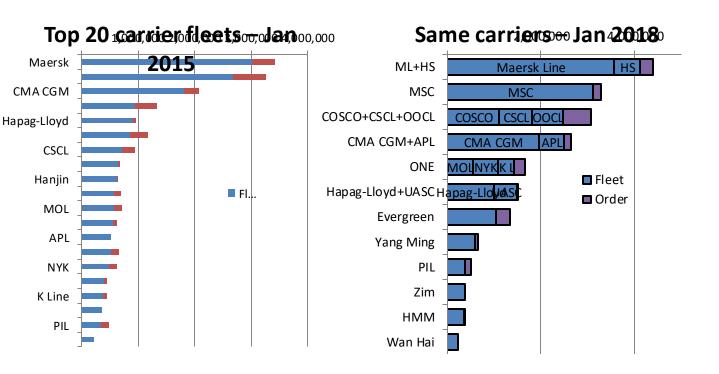
What are the new (April 2017) alliances?



The level of consolidation is unprecedented



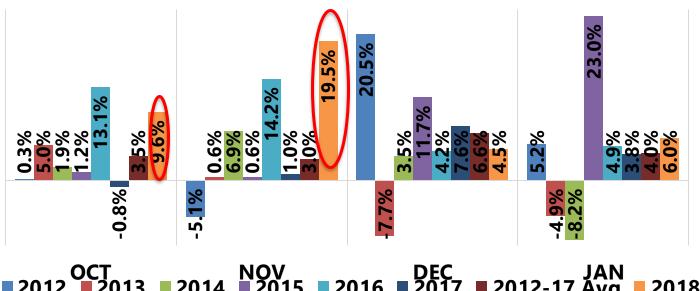
We will end up with 4-7 mega-carriers



Front-loading of 2019-Q1 volumes due to US-China tariff hike

CTS data shows a loading surge in November

Oct-Jan Y/Y TP volume growth – NOTE: Time of loading





But limited imports surge, and only in NAWC

