



2023 KOBC Maritime Conference

한국해양진흥공사 마리타임 컨퍼런스

1st November 2023

2023. 11. 1.(수)

Paradise Hotel Busan

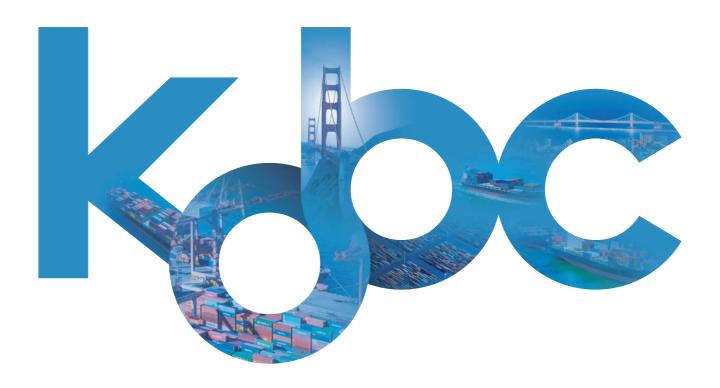
BMFW

파라다이스호텔 부산

Program Book



Program Book



2023 KOBC Maritime Conference

한국해양진흥공사 마리타임 컨퍼런스

1st November 2023

Paradise Hotel Busan

2023. 11. 1.(수) 파라다이스호텔 부산



2023 KOBC Maritime Conference

Date November 1st

Venue Paradise Hotel Busan

Host KOREA OCEAN BUSINESS CORPORATION

As the paradoxical prosperity in the shipping market brought about by the pandemic wanes, the Korean shipping industry is once again facing a challenging period. Uncertainty of the shipping industry is heightened in the midst of global changes such as strengthening greenhouse gas regulations, a transformation of the international order, and the sustained high–interest rate for inflation control. Now, taking wise measures through collective intelligence has become more important than ever.

Korea Ocean Business Corporation (KOBC) has invited experts in maritime finance and global shipping market to analyze recent trends and gain insights into the future of the market. We sincerely hope that the perspectives of experts from various fields and your diverse ideas will come together to turn the challenges in our shipping industry into opportunities.

For this conference, we have improved the financial session by incorporating port facility & logistics finance into ship finance, creating a framework that encompasses shipping, ports, and finance. KOBC is also expanding the financing from ships to port facility logistics and will continue to contribute to the growth and development of the shipping and port facility logistics industry with more advanced business support.

We cordially invite you to the 6th KOBC Maritime Conference, hoping that you will join us in the journey of our shipping and port facility logistics industry to achieve sustainable development through innovation.

President of KOBC Kim Yang-Soo

팬데믹이 불러왔던 해운시장의 역설적인 호황기가 저물고, 우리 해운산업은 다시 도전의 시기를 맞이하고 있습니다. 온실가스규제 강화와 미·중 관계 재편 등 세계질서의 변화, 인플레이션 억제를 위한 고금리 기조 지속 등 해운산업을 둘러싼 환경에 불확실성이 고조되고 있는 지금, 집단 지성을 통한 슬기로운 대처가 그 어느 때보다도 중요해졌습니다.

한국해양진흥공사는 해양금융과 해운시황 글로벌 전문가들을 초청하여 최근 동향을 분석하고 앞으로의 시장을 조망해보는 자리를 마련하였습니다. 분야별 전문가의 혜안과 참석자 여러분들의 다양한 아이디어가 어우러져 우리 해운 산업이 위기를 기회로 바꾸는 전화위복의 계기가 되기를 진심으로 바랍니다.

이번 컨퍼런스는 선박금융에 항만물류금융을 더한 금융세션을 강화하여 해운과 항만 그리고 금융을 아우르는 구성으로 준비하였습니다. 저희 공사도 금융영역을 선박에서 항만물류까지 확대하는 한편, 한층 고도화된 사업지원을 통해 해운항만물류산업의 성장과 발전에 기여해 나가겠습니다.

여러분들께서도 우리 해운항만물류산업이 혁신을 통해 지속 가능한 발전을 이루도록 그 여정에 함께 해 주시기를 기원하며, **제6회 KOBC 마리타임 컨퍼런스**에 초대합니다.

한국해양진흥공사 사장 김양수



PROGRAM

Time	Schedule		
10:30~11:00	Registration		
11:00~11:05	Opening Speech		
11:05~11:20	Celebration Speech		
11:20~11:40	Keynote Speech Sohn Byungdoo Chairman & CEO I Korea Exchange		
11:40~13:00	Lunch		
13:00~14:00	Finance Session	Global Ship Finance Trend & Prospect	Mr. Abhishek Pandey SC Bank
		Global Port Facility Logistics Financing Trend	Kim Duckwon Korea Superfreeze Inc.
14:00~14:30	Panel Discussion		
14:30~14:45	Coffee Break		
14:45~15:45	Shipping Session 1	Drybulker Market Trend & Prospect	Ms. Louisa Follis Clarksons
		Tanker Market Trend & Prospect	Mr. Oliver Ge McQuilling
15:45~16:00	Coffee Break		
16:00~17:00	Shipping Session II	Container Market Trend & Prospect	Mr. Jan Tiedemann Alphaliner
		Sales & Purchase Market Trend & Prospect	Mr. Tom Evans VesselsValue (A Veson Company)
17:00~18:00	Q&A · Closing		

프로그램

시간	내용		
10:30~11:00	등록·티타임		
11:00~11:05	개회사		
11:05~11:20	축 사		
11:20~11:40	기 조연설 손병두 이사장 I 한국거래소		
11:40~13:00	오찬 및 네트워킹		
12:00 . 14:00	금융세션	글로벌 선박금융 시장 동향	Mr. Abhishek Pandey SC Bank
13:00~14:00		글로벌 항만물류금융 시장 동향	김덕원 대표이사 한국초저온
14:00~14:30	패널토론		
14:30~14:45	휴식 및 네트워킹		
14:45~15:45	시황세션 I	건화물선 시장 동향 및 전망	Ms. Louisa Follis Clarksons
		유조선 시장 동향 및 전망	Mr. Oliver Ge McQuilling
15:45~16:00	휴식 및 네트워킹		
16:00~17:00	시황세션॥	컨테이너선 시장 동향 및 전망	Mr. Jan Tiedemann Alphaliner
		선박매매 시장 동향 및 전망	Mr. Tom Evans VesselsValue (A Veson Company)
17:00~18:00	질의응답 및 폐회		



Keynote Speech

Sohn Byungdoo Chairman & CEO | Korea Exchange

Keynote Speech

November 1st 11:20~11:40



Sohn Byungdoo
Chairman & CEO | Korea Exchange

CV

학력

- · 1983년 서울 인창고
- · 1987년 서울대학교 국제경제학과
- · 1993년 서울대학교 행정대학원 석사
- · 2000년 美, 브라운대학교 경제학 박사

경력

- · 2020.12. 한국거래소 이사장
- · 2019. 5. 금융위원회 부위원장
- · 2017. 9. 금융위원회 사무처장
- · 2016. 7. 금융위원회 상임위원
- · 2015. 3. 금융위원회 금융정책국장
- · 2014. 3. 금융위원회 금융서비스국장
- · 2013. 5. 금융위원회 공적자금관리위원회 사무국장
- · 2011. 2. 기획재정부 G20 기획조정단장
- · 2010. 1. 기획재정부 국제금융국 국제금융과장
- · 2008. 3. 기획재정부 국제금융국 외화자금과장
- · 2006. 7. 재정경제부 국제금융국 국제기구과장
- · 2005. 2. 대통령비서실 경제정책수석비서관실 행정관
- · 2003. 4. 국제부흥개발은행(IBRD) 선임 이코노미스트
- · 2001. 6. 재정경제부 경제정책국 종합정책과 서기관
- · 1989. 행정고시 합격(33회)

Education

- · 1983: Graduated from Seoul Inchang High School
- · 1987: Bachelor's degree in International Economics, Seoul National University
- · 1993: Master's degree from the Graduate School of Public Administration, Seoul National University
- · 2000: Ph.D. in Economics, Brown University, USA

Career

- · December 2020: Chairman and CEO, Korea Exchange
- · May 2019: Vice Chairman, Financial Services Commission
- · September 2017: Head of Secretariat, Financial Services Commission
- · July 2016: Standing Commissioner, Financial Services Commission
- · March 2015: Director General, Financial Policy Bureau, Financial Services Commission
- · March 2014: Director General, Financial Services Bureau, Financial Services Commission
- · May 2013: Head of Secretariat, Public Funds Management Committee, Financial Services Commission
- · February 2011: Director, G20 Coordination Division, Ministry of Strategy and Finance
- · January 2010: Director, International Finance Division, Ministry of Strategy and Finance
- · March 2008: Chief, Foreign Exchange & Foreign Capital Division, International Finance Division, Ministry of Strategy and Finance
- · July 2006: Chief, International Organizations Division, International Finance Bureau, Ministry of Economy and Finance
- · February 2005: Administrative Secretary, Office of the Presidential Secretary for Economic Affairs, Blue House
- · April 2003: Senior Economist, International Bank for Reconstruction and Development (IBRD)
- · June 2001: Secretary, Comprehensive Policy Division, Economic Policy Bureau, Ministry of Economy and Finance
- · 1989: Passed the Public Administrative Examination (33rd Examination)



Finance Session

Global Ship Finance Trend & Prospect

Mr. Abhishek Pandey

Global Head | Standard Chartered Bank

Global Port Facility Logistics Financing Trend

Kim Duckwon

CEO I Korea Superfreeze Inc.

Finance Session

November 1st 13:00~13:30



Mr. Abhishek Pandey
Global Head | Standard Chartered Bank

CV

Abhishek is the Global Head of Shipping Finance for Standard Chartered Bank. He joined the Bank in 2007 and since then has been involved in originating, structuring, and executing transactions globally, a lot of which have won industry awards. He sits on the Board of various Standard Chartered subsidiaries like Standard Chartered Leasing Group Ltd.

Abhishek started his career as a Ship Navigating Officer and spent about 6 years at high seas post which he did his management degree. He had been a first officer at sea, a general manager in an IT company, part of the core strategy team of a global shipping line in Hong Kong before he moved to Singapore to help start the Shipping Finance business in the Bank.

Abhishek serves as Council Member of SSA ("Singapore Shipping Association") and also chairs its Ship Finance Services committee. Abhishek was also a part of the 10 member committee established by Govt of India's IFSCA (International Financial Services Authority, a financial regulator) to develop ship financing and leasing activities in India. He is also a member of the prestigious YPO ("Young President's Organization").

Abhishek has a wellcultivated industry network. His first hand experience in operations, marketing, business strategy and finance has helped him build the shipping finance business ground up. Abhishek also made it to the 'Lloyd's List Next Generation 2012 Most Influential People in the Shipping Industry'

Abhishek holds a Bachelor's Degree in Nautical Sciences from the University of Mumbai and a MBA from the Indian School of Business in India.

Finance Session

November 1st 13:30~14:00



Kim Duckwon
CEO | Korea Superfreeze Inc.

CV

LNG 냉열에너지를 상업용 물류센터 운영에 활용하는 전략적 아이디어를 창안한 핵심 멤버 중 한명인 김덕원 대표이사는 물류센터 운영에 대한 전문성과 인프라 투자에 대한 다년간의 경험을 보유하고 있습니다. 김덕원 대표이사는 글로벌 사모펀드 EMP 벨스타 서울사무소의 파트너이기도 하며, 한국초저온 합류 이전 Lazard Asia 에서 재직하며 수많은 다국적 기업의 M&A 를 진행하였으며, Lazard Asia 이전에는 한국의 대표적인 1 세대 사모펀드인 Eugene PE 와 Macquarie PE 에서 근무하였습니다. 김덕원 대표이사는 펜실베이니아 대학교 와튼스쿨에서 경영학 학사 학위를 취득하였습니다.

경력사항

(現) 한국초저온 - 대표이사 (現) EMP Belstar - Partner Lazard Asia - VP Eugene PE - Manager Macquarie PE - Associate

학력사형

The University of Pennsylvania, Wharton School of Business 졸업

Kim Duckwon, one of the key members who created the strategic idea of using LNG cold thermal energy for operating commercial logistics center, has expertise in logistics center operations and years of experience in infrastructure investment. Kim is also a partner of EMP Bellstar Seoul office, a global private equity fund. He worked at Lazard Asia and supported numerous M&As of multinational companies. Before Lazard Asia, he worked at Eugene PE and Macquarie PE, Korea's renowned first–generation private equity funds. Kim Duckwon received a BS in Economics from the Wharton School of the University of Pennsylvania.

Career

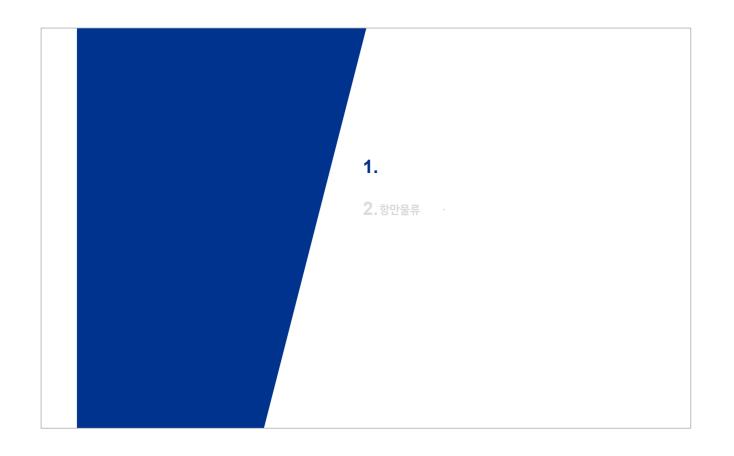
(Current) Korea Superfreeze Inc. – CEO (Current) EMP Belstar – Partner Lazard Asia – VP Eugene PE – Manager Macquarie PE – Associate

Education

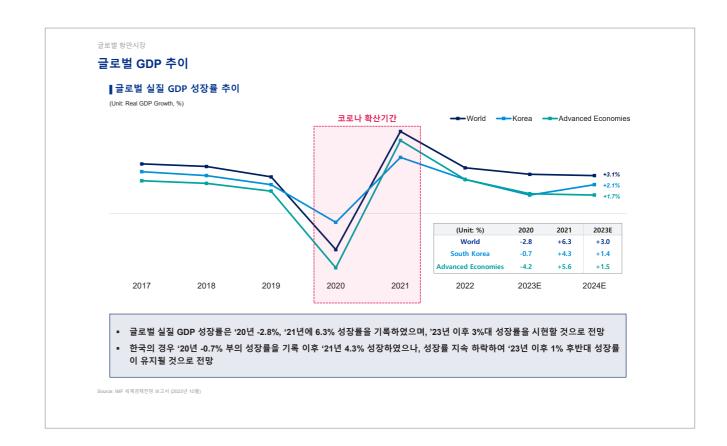
Bachelor's degree from the Wharton School of Business of the University of Pennsylvania

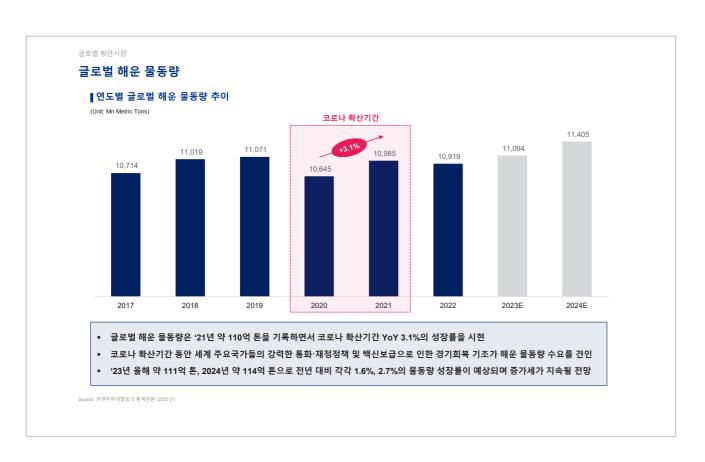




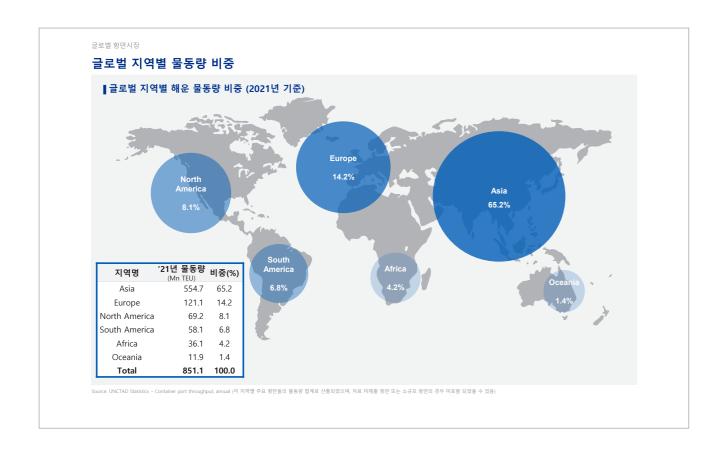


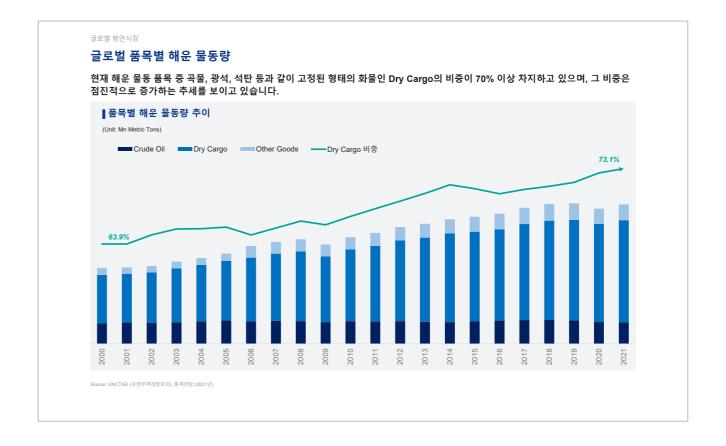
2023 KOBC र्केट्र अव्याधिक Conference

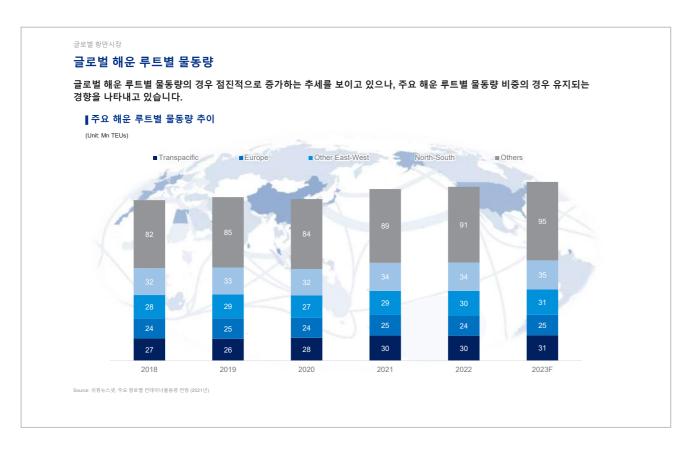






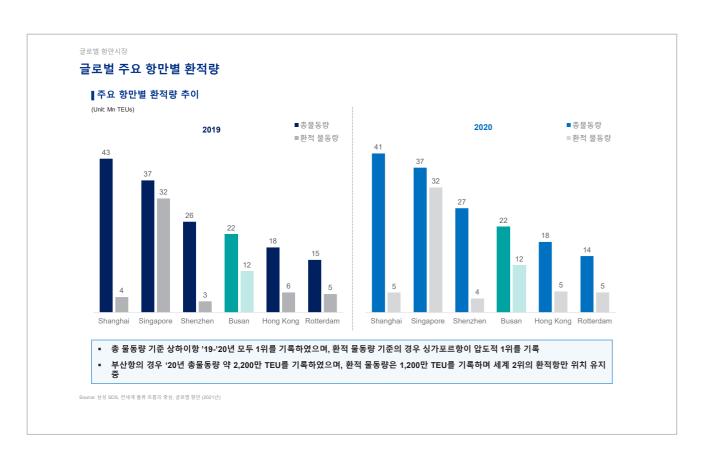


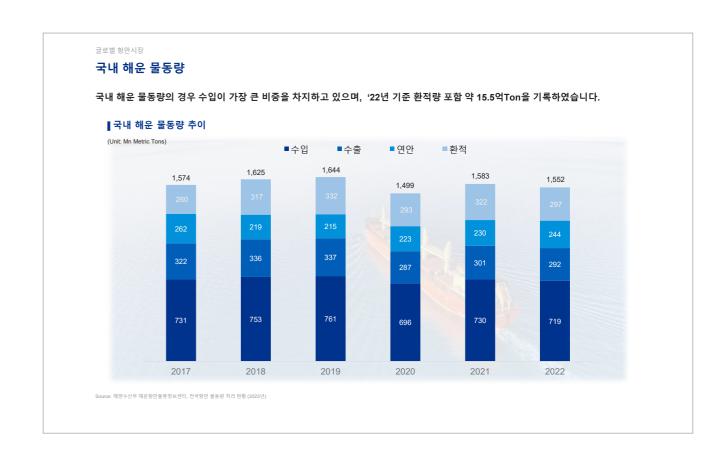


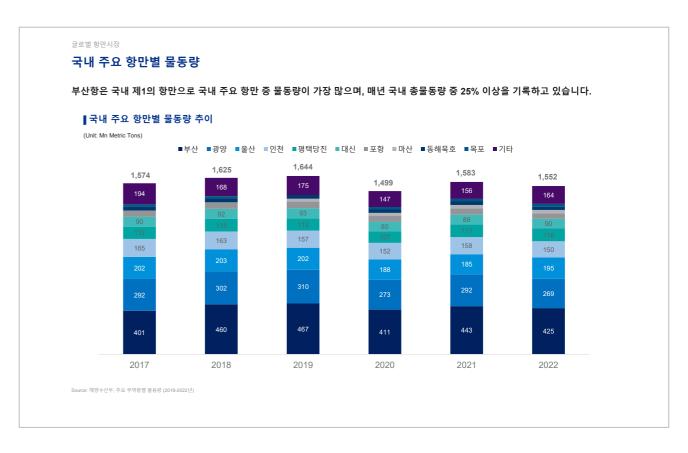




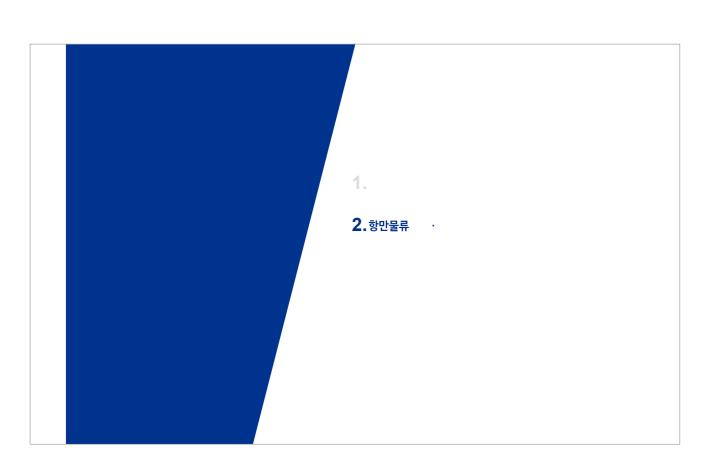








글로벌 항만시장 국내 주요 항만별 환적량 국내 총 환적량은 2022년 기준 1,200만 TEU를 상회하고 있으며, 부산, 광양, 인천, 울산 등 순으로 높은 환적량을 기록했습니다. ■2022년 국내 주요 항만별 환적량 추이 (Unit: '000 TEUs) 항만명 2017 2018 2019 2020 2021 2022 10,225 11,429 11,638 12,020 12,273 11,766 11,766 585 580 371 331 278 33 69 54 72 평택·당진 5 6 12 12 11 18 기타 12 12 14 11 16 14 총계 10,710 12,063 12,283 12,487 12,690 12,157 인천 울산 평택당진 기타 Source: 해양수산부 해운항만물류정보시스템, 항만별 컨테이너 화물 처리 실적 (2023년)



항만물류 금융·투자 시장

항만물류 개요

▮항만물류

■ 항만에서 화물이 공급자로부터 수요자에게 전달될 때까지 이루어지는 하역·보관·가공·운송 등 일련의 처리 과정 전반을 항만 물류라 함

▮ 항만배후 물류단지/물류센터의 필요성

- 항만 배후 물류단지/물류센터는 항만과 연계하여 기본적인 환적, 집배송 보관 뿐만 아니라 추가적인 부가가 치서비스 및 물류서비스를 수행하는 종합 물류기지
- 항만물류는 항만터미널을 통하여 전달된 화물이 항만 배후 단지 내 물류센터로 운송되어 보관, 가공 및 유통되는 일련의 과정이며, 이에 따라 **항만과 항만 배후 물류단지가 유기적으로 연결되어 있는 것이 항만물류 경쟁력을 갖추는데 필수적**



항만물류단지/시설의 효과

- 제조산업 및 물류환경 변화에 따른 항만물류시설 니즈 증대
- 항만 국제경쟁력 및 물류거점화 를 위한 필수 시설
- 고부가가치화물 창출, 고용 및 생 산유발효과 등 경제발전 기여

Source: PwC Korea Industry Report (February 2023)

항만물류 금융·투자 시장

글로벌 항만물류 트렌드

글로벌 항만물류는 대형화/복합화를 통한 항만물류 기반시설 확충, 스마트 항만물류 구축을 통한 물류 효율화 및 친환경 시설로의 전환 트렌드를 맞이하고 있습니다.

대형화·복합화



- 항만물류 혼잡도 해소를 위한 보관/처리가능 Capa. 및 물류시설 규모 확대 도모
- 단순 운송·보관이 아닌 제조, 가공, 유통 및 부가서비스 제공이 가능한 복합물류시설 조성을 통한 물류 효율화 제고

스마트·디지털화



- 자동화·지능화 시스템 기반 화물 물류흐름 최적화 (스마트항만, 자동화시스템, 통합관제)
- IT 첨단기술 적용에 따른 물류 최적화, 효율성 향상 등이 나타나고 있으며, 디지털 전환은 더욱 가속화될 전망

친환경(ESG)



- EU의 2050년 탄소중립 목표에 따라 글로벌 기업들의 탄소배출 저감 니즈↑
- 친환경/스마트 장비 도입, 신재생에너지 사용 등을 통한 친환경 항만물류 인프라 확충

23

대형화/복합화, 디지털화, 친환경 트렌드에 따라 글로벌 항만들은 현대식 항만물류시설 확충에 총력을 기울이고 있는 상황

ource: Marine Environment Protection Committee



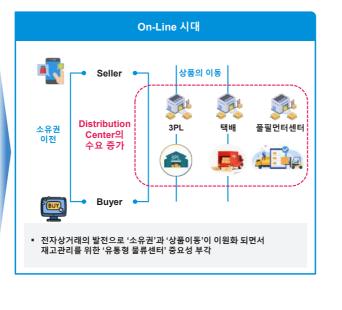
항만물류 금융·투자 시장 물류센터의 자동화/첨단화 온라인 거래량의 증가, 국가간 무역량의 성장 등에 대응하기 위하여 물류센터를 중심으로 한 물류 자동화/첨단화 트렌드가 나타나고 있습니다. ▮프로세스별 자동화 기능 → Al Logistics Center 물류센터 중심의 물류 자동화 Trend DAS¹ DPC³ Mini Load QPs Shuttle Pallet Auto AS RFID 상/하차 하역 및 상차 보충 및 분류 자동 Picking 검수 및 포장 보관 보관 방식에 대한 새로운 정의 변화와 확정에 용이한 새로운 조합 Typical Random Storage Stow Module Type

항만물류 금융·투자 시장

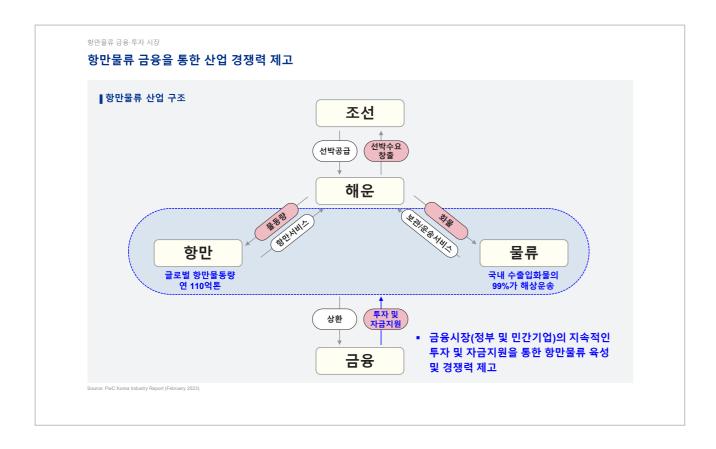
유통형 물류센터(DC) 수요 증가

온라인 시대 이커머스의 발전으로 효율적인 물류 보관 및 유통의 중요성이 부각되면서 유통형 물류센터(Distribution Center)의 수요가 높아지고 있습니다.





항만물류 금융·투자 시장 글로벌 항만물류 인프라 고도화 IoT 기반 스마트 기술의 발전, 친환경 기술 적용, 물류 효율성 제고를 위한 통합관제 등에 따라 항만과 연계한 항만물류의 기능은 더욱 고도화되고 있습니다. 항만 항만 배후 물류단지 안전모니터링 물류통합관제 지능형 무인자동화 모듈 컨테이너 자동운송 부가가치서비스 자율주행선박 스마트 물류관제 플랫폼 친환경 항만 시설 상태 모니터링 스마트 컨테이너 화물인지 IoT센서 스마트 하역(크레인)





항만물류 금융·투자 시장

국가별 항만물류 투자 및 지원 사례 – 중국 청도항 5G 기반 스마트항만 추진

▮中 청도항: 세계 최초 5G 기반 스마트항만으로 탈바꿈



- 칭다오항은 첨단 기술과 높은 자동화 수준을 갖춰 2017년부터 아시아 최초로 완전 자동화 터미널로 운영 시작
- 2.4만 TEU 규모의 선박을 수용하며, 연간 5.2 백만 TEU의 적재량을 처리할 수 있는 세계에서 가장 큰 자동화 터미널임
- 지능형 오버헤드 컨테이너 배송 시스템이 자동화 터미널에서 운영을 개시되어 효율적인 컨테이너 운송을 개선 중임
- 중국 정부의 정책지원 및 금융지원아래 "수소 + 5G" 스마트 생태 터미널 구축, 수소 크레인 기술을 도입하고 수소 에너지 솔루션을 적용하여 탄소 및 이산화황 배출량을 크게 줄이는 친환경 스마트 항만으로 변모 중

Source: Port Technology International, Qingdao Port becomes the world's first hydrogen-powered and 5G intelligent port (June 2022)

국가별 항만물류 투자 및 지원 사례 – 인도 구자라트 항만 터미널 및 물류 인프라 개발

▮두바이: DP World 인도 구자라트州 항만 터미널 개발









- 두바이 DP World, Deendayal 항만 당국과 협력하여 2023년부터 Kandla의 Tuna-Tekra에 컨테이너 터미널 개발/투자 예정
- 이 프로젝트의 총 투자금액은 USD\$ 5.1억으로 예상되며 , 공공 개인 파트너십(PPP)을 통해 가치를 창출할 것으로 전망
- 이 협약은 30년간의 Build-Operate-Transfer(BOT) 모델 기반으로 체결되며, 20년간 추가 연장 가능한 조항이 포함
- 2027년에 완공 시, 연간 약 220만 TEU를 처리할 수 있는 최신 기술로 구축되며, 1.8만 TEU 이상 규모의 최신 선박 수용 가능할 예정

항만물류 금융·투자 시장

국가별 항만물류 투자 및 지원 사례 – 독일 함부르크항만 smartPORT 프로그램

■독일: 함부르크항만 민관협조체제 통한 smartPORT 프로그램 주도









Source: 물류신문, Part 3, 해외 스마트항만, 어디까지 와 있나? (2020년 10월

- 유럽에서 두 번째로 큰 항구로, 유럽 전체 수출 물량의 20%를 처리하고 있는 유럽 경제의 관문
- 함부르크 항만공사(HPA 주도로 개발된 'smartPORT' 프로그램을 통해 2015년부터 물류부문(smartPORT logistics) 12개 프로젝트, 에너지부문(smartPORT energy) 5개 프로젝트 수행 중
- 민관협조체제(Public-Private-Partnership)를 통해 시 정부와 200여 개의 회사들이 참여하는 독특한 체제를 갖춤
- 글로벌 IT 기업 Cisco와 함께 사물인터넷(IoT) 기술을 적용하여 스마트화 추진 중

항만물류 금융·투자 시장

국가별 항만물류 투자 및 지원 사례 – 네덜란트 로테르담항 물류단지

▮로테르담항 배후 물류단지



- 네덜란드 로테르담항은 Massvlakte, Botlek, Waal/Eemhaven 등 3개 항만 배후 물류단지/센터를 운영중
- Massvlakte를 중심으로 보관 및 유통 등 물류 기능 이외에 조립, 포장, 라벨 링, 품질검사 등 다양한 물류 관련 부가가치서비스를 제공함으로써 로테르담항의 경쟁력 확보 및 제고
- Maasvlakte 물류단지를 비롯한 로테르담항의 개발 및 운영은 로테르담시의 공공사업국, 도시개발 및 주택서비스 등 다수의 서비스 부문들이 참여하는 하나의 별도 공기업이 투자 및 개발을 주도

항만물류 금융·투자 시장

수출신용기관/정책금융기관의 항만물류 금융 지원 사례 - EIB의 그리스 Port Piraeus 투자

▮ 항만물류 금융 지원 사례: 유럽투자은행(EIB)





유럽투자은행(EIB)의 그리스 Port of Piraeus 투자

- 그리스 Port of Piraeus는 그리스 남부 지중해에 위치한 항구로 흑해 및 발칸반도로의 접근성 보유
- 그리스 최대의 항만으로 2021년도 기준 컨테이너 물동량 531만TEU로 세계 28위를 기록
- 2019년 4분기 유럽투자은행(EIB)는 Port of Piraeus 항만 확대 및 현대화를 위하여 대출투자를 결정 ■ 20년 장기대출 구조로 140백만EUR을 지원(CEXIM
- 중국수출입은행의 지급보증) (Port of Piraeus 지분 51%를 中國 해운사인 COSCO가 보유)
- EIB의 지원금은 신항 물류센터 개발, 컨테이너 터미널 개선을 포함한 전반적인 Port of Piraeus 시설 개선에 사용



20년 장기대출



수출신용기관/정책금융기관의 항만물류 금융 지원 사례 – Afreximbank의 지부티항만 투자 지원

▮항만물류 금융 지원 사례: 아프리카 국제수출신용기관





Afreximbank의 지부티항만 개발자금지원



USD 120mm 규모 금융지원





- 지부티항은 지정학적으로 홍해와 아덴만에 위치하여 동부아프리카 지역의 허브 항만으로, 지부티의 유일한 국제항만이자, 아프리카의 주요 환적항
- 아프리카 수출입은행(Afreximbank)은 '23.7월 지부티항만 배후산업단지인 Damerjog 산업개발무역지구(DFTZ) 개발 프로젝트 위해 총 USD 1.5bn 자금지원 단행 (Afreximbank USD 1.2bn, 지부티 현지 은행 USD 0.35bn 참여)
- 이번 투자는 지부티의 지역 환적 및 물류 허브로의 도약 달성을 위한 인프라 개발이 주요 목적임
- 인근 국가 에티오피아 및 소말리아에 대한 해운(해양) 서비스 기반인 지부티의 경제 활성화를 위한 해운 관문을 제공하여 아프리카 내 해상 무역 촉진할 전망임

항만물류 금융·투자 시장

민간기업의 항만물류 투자사례 (해운(항만) → 물류진출)

글로벌 해운 리더기업인 Maersk는 친환경, 스마트, 자동화 시스템을 갖춘 항만 배후 물류센터를 개발하여 항만 주요 화주들과의 접근성을 높이는 전략을 추진하고 있습니다.

▮해운회사의 항만물류 투자 사례: 머스크(Maersk)

회사명	* MAERSK	
유형	Public Company (Nasdaq Copenhagen)	
본사	Copenhagen, Denmark	
컨테이너 선박수	■ 730+개 선박, 67개 터미널	
"(항만)물류센터에 투자 확대와 풀필먼트 역량 강화는 우리의 전략적 성장에 필수적"		

싱가포르 Jurong West 항만배후 물류센터(World Gateway 2)

- Maersk는 '23.7월 Tuas Mega Port Jurong West 내 10만m² 물류센터 개발 개시 ■ 사업지는 싱가포르에서 가장 큰 자동화
- 보세 창고인 World Gateway 1과 연계 가능 입지로, **3만 Pallet 보관가능** 자동화시스템(AS/RS)을 구축하여 **항만물류 수요에 대응**한다는 계획



중국 상하이 린강자유무역지구 스마트 물류시설 개발사업

- '22.12월 Maersk는 중국 상하이항 배후 린강자유무역지구내 물류시설 개발을 위한 토지를 매입
- 사업지는 Maersk의 **중국 내 첫번째** 친환경 스마트 플래그쉽 물류시설이 될 예정으로 총 174백만USD를 투자하여 2024년 3분기 개소한다는 계획



파키스탄 Port Qasim 복합물류시설 투자

- Maersk가 투자한 파키스탄 Port Qasim 배후 Integrated Logistics Park '22.11월 개소
- 해당 물류시설은 Port Qasim의 핵심 물류시설로, 리테일부터 첨단 기기까지 다양한 품목의 수출입 화물이 최첨단 WMS 하에 관리되고 있음



항만물류 금융·투자 시장

30

수출신용기관/정책금융기관의 항만물류 금융 지원 사례 – IFC의 라오스 Dry Port 금융지원

▮ 항만물류 금융 지원 사례: 국제금융공사(IFC)



IFC의 Thanaleng Dry Port/Vientiane Logistics Park 지원







- Thanaleng Dry Port는 라오스의 수도 Vientiane에 위치한 드라이포트(라오스는 바다를 접하고 있지 않으며, 내륙에 위치한 터미널이나 해상화물이 철도나 트럭으로 환적되어 내륙의 목적지까지 수송될 수 있도록 환적 관련 시설을 갖추는 내륙항이 드라이포트)
- 국제금융공사(IFC)는 '22년 라오스 Vientiane Logistics Park (VLP)의 개발 및 시설 건설, 설비 구매를 목적으로 USD 67mm을 주선
- 이중 IFC는 자체자금으로 USD 27mm, IFC가 보유한 개발도상국 투자촉진 파이낸싱 패키지로 USD 21mm 참여
- 급번 지원금은 라오스의 대중 무역 활성화 및 중국, 태국, 말레이시아, 싱가포르와의 환적량 증대 기여를 기대

항만물류 금융·투자 시장

민간기업의 항만물류 투자사례 (물류 → 항만진출)

미국의 글로벌 물류투자사 ProLogis는 미국 및 해외의 항만 배후 물류센터에 대한 지속적인 투자를 진행하고 있습니다.

■물류회사의 항만물류 투자 사례: 프로로지스(ProLogis)

회사명	PROLOGIS'
유형	Public Company (NYSE:PLD)
본사	San Francisco, CA
물류시설 면적	■ 전세계 1억 m²
고객수	• 6,700여개 화주
운용자산규모	■ USD 209 bn
진출 국가	 4개 대륙(북미, 남미, 유럽, 아시아) 19개 국가
Services	■ 물류센터 투자, 개발, 운영

미국 LA항 배후 물류센터 부지 투자

- LA/LB항은 물동량 기준 19백만TEU 항만으로 미국 해운 컨테니어 수입물동량의 38%, 해운 수출 컨테이너 물동량의 26%를 처리
- 2019년 Prologis가 41백만USD에 취득한 산단 내 물류센터 부지는 LA항 배후에 위치하고 있으며, LA항 및 LB(Long Beach)항 모두에 접근성이 뛰어남



중국 선전 Yantian Port 배후 물류센터 개발

- 2007년 ProLogis는 중국의 Yantian Port Group과 함께 중국 선전시의 Yantian Port 배후단지에 ProLogis Park를 개발
- 총 48백만USD를 투자하여 약 7만평 규모의 대규모 수출입 보세창고로 사용



민간기업의 항만물류 투자사례 (물류 → 항만진출)

미국의 글로벌 콜드체인 물류운영사 Americold는 항만배후단지 콜드체인 물류시설 개발, 글로벌 항만 운영사와의 전략적 파트너쉽 체결을 통하여 증가하는 항만 콜드체인 물류 수요에 대응하고 있습니다.

■물류회사의 항만물류 투자 사례: 아메리콜드(Americold)



Americold 社, 美 사바나항 배후 콜드체인 물류시설 투자

- 조지아州 사바나항은 미국에서 가장 빠르게 성장중인 항만 중 하나로, 남부의 지리적 이점을 기반으로, 유럽·남미 진출이 용이
- Americold는 사바나항의 물류업체 PortFresh 홀딩스를 인수함과 동시에 사바나항 항만물류 수요 충족을 위하여 '20년 항만 배후 단지에 140만m² 규모의 콜드체인 물류시설을 건립





글로벌 항만 운영사인 DP World와의 전략적 파트너쉽 체결

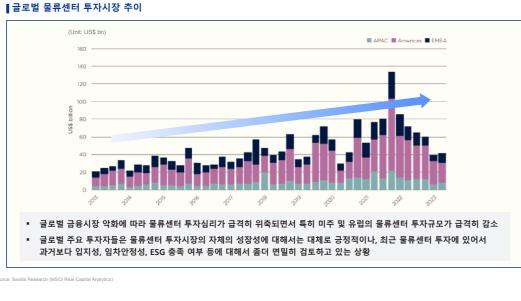
- ' '22년 4분기 Americold는 **글로벌 항만운영사** DP World와 전략적 파트너쉽 체결
- Americold는 DP World가 운영하는 항만에 최신식으로 설계된 콜드체인 물류시설을 구축하여, 증가하는 항만 콜드체인 물류 수요을 충족시킨다는 계획

DP WORLD

항만물류 금융·투자 시장

글로벌 물류센터 투자 규모

글로벌 물류센터 투자 시장 규모는 2023년 2분기 기준 USD 416억 수준으로 전년 대비 약 50% 감소하였으나, 2019년 동기 대비 여전히 10% 높은 수준이며, 투자자들은 장기적인 관점에서 물류센터 및 물류산업에 대하여 긍정적인 태도를 유지하고 있습니다.



항만물류 금융·투자 시장

한국초저온 인천신항 콜드체인 물류시설 개요

한국초저온은 인천시 연수구 송도동에 위치한 인천신항 배후단지 콜드체인 특화구역 내 연면적 규모 약 10만평 규모의 신축 LNG냉열활용 콜드체인 항만 인프라 시설을 구축하는 프로젝트를 진행하고 있습니다.

▮ 인천신항 개발사업 소개



■ 인천신항 배후단지 LNG냉열활용 콜드체인 시설 ■ 초저온·냉동·냉장·정온 시설 및 그 부속 시설 ■ 328,304.13m² (99,312평) 건폐율/용적률 • 62.5% / 211.4%

규모/높이 ■ 창고동 B1~7F, 지원동 B1~4F / 최대높이 56.1m

■ LNG냉열 활용 친환경·고효율 / 초저온 온도대 구현

■ 전 층 램프형 상하차 접안 / 자동화 창고시설(ASRS)

자산특징

- LNG 냉열 직배관: LNG 인수기지 인접하여 에너지 공급에 유리
- 입지적 우수성: 중국 및 동남아와 연결되는 아시아권 수출입교역의 전초기치로 활용 가능하며, 송도 바이오클러스터와 인접하여 바이오의약품 물류 연계 용이
- 편리한 교통입지: 수도권 최근거리 국제항인 인천신항 배후단지소재로 제1, 제2, 제3경인고속도로를 통하여 서울 및 수도권과 연결 30분 내에 외곽순환고속도로, 영동고속도로, 인천국제공항 및 김포공항 접근 가능한 편리한 교통 입지 보유

항만물류 금융·투자 시장

한국초저온 인천신항 콜드체인 물류시설 특징

인천신항 콜드체인 물류시설은 LNG 냉열을 활용하여 운영되는 친환경 항만배후 물류인프라 시설이며, 4온도대 보관 서비스 및 급속 냉동 서비스, 자동화 시스템 및 IoT 기반 통합 물류 관제시스템을 통하여 항만 활성화에 기여할 계획입니다.

▮인천신항 콜드체인 물류시설의 특징

친환경 에너지원인 LNG냉열을 활용하여 ESG 가치 제고 **4 4 NG 4 4**

- 연료사용 목적으로 영하 162도의 LNG를 기화시키는 과정에서 발생하는 차가운 냉기(LNG 냉열)를 사용하여 콜드체인 시설 운영
- 냉동/냉장을 위한 압축기가 불필요해, 기존 전기식 대비 80% 전력 비 절감가능, 탄소배출 절감에 따른 글로벌 ESG 스탠다드 충족

4차 산업 융복합 시설 통합물류시스템 +자동화시스템 에너지관리시스! +

■ 최신식 자동화 시스템(AS/RS) 및 통합 물류 관제시스템을 통하여 물동량 처리의 신속성, 정확성 향상 및 재고·운영비용 절감 가능

항만 배후 글로벌 수출입 허브로의 활용성



인천신항 국제 컨테이너 전용부두를 통한 글로벌 수출입 기업 들의 콜드체인 물류 허브를 제공하여 수출입 생산성 극대화

항만 인프라 활성화를 위한 프리미엄 콜드체인 시설







바이오의약품/백신 고급식자재/냉동식품

 LNG 냉열 활용 4온도대 보관 서비스 및 급속 냉동 서비스를 지원하여 항만 인프라 화주들의 다양한 물류 서비스 니즈를 충족

한국초저온 부산신항 콜드체인 물류시설 개요

본건 개발사업은 부산시 강서구 구랑동에 위치한 부산신항 배후 국제산업물류도시 내 연면적 규모 44,000평 규모의 최신식 LNG냉열활용 콜드체인 항만 인프라 시설을 구축하는 사업입니다.

▮부산신항 개발사업 소개



프로젝트	■ 부산신항 배후단지 LNG냉열활용 콜드체인 시설
도입시설	■ 초저온·냉동·냉장·정온 시설 및 그 부속 시설
연면적	■ 145,659.4 m² (44,062평)

규모/높이 ■ 창고동 B3~5F / 최대높이 58.5m

건폐율/용적률 • 63.7% / 225.9%

■ LNG냉열 활용 친환경·고효율 / 초저온 온도대 구현 ■ 전 층 램프형 상하차 접안 특징



자산특징

- 최신식 현대화 콜드체인 물류센터: 부산시의 노후화 냉동냉장 창고를 보완할 수 있는 현대화 물류센터로 초저온 및 급속동결 설비를 갖춘 동남권 허브 기능 가능
- 풍부한 배후 물류 수요: 부산신항 뿐만이 아니라 명지녹산산단, 부산·진해 경제자유구역이 4km 이내 위치하여 부산신항 배후단지 연계 물동량이 풍부한 입지
- 교통편의성: 반경 25km 이내 서부산IC, 동김해IC, 진해IC, 장유IC, 냉정JC, 진례JC, 대저JC 위치하여 경부고속도로 등 접근성 확보



항만물류 금융·투자 시장

한국초저온 부산신항 콜드체인 물류시설 특징

본건은 부산신항 배후 국제산업물류도시에 개발되는 LNG 냉열활용 친환경 항만배후 물류인프라 시설로, 초저온 온도대가 구현된 현대적인 항만 콜드체인을 공급하여 동북아 국제물류중심 항만으로서의 부산신항 활성화에 전초기지 역할을 수행할 예정입니다.

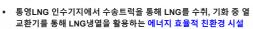
▮부산신항 콜드체인 물류시설의 특징











■ 기존의 전기식 냉동기 대비 낮은 전력비가 소요되며 보다 안정적 인 냉동이 가능하여, 높은 수준의 초저온 물류 서비스 제공 가능

물류 통합 플랫폼을 기반으로한 차별화된 물류 서비스



■ 기업들의 핵심사업 강화 목적으로 全산업에 걸친 물류 아웃소싱 추세가 가속화되고 있으며, 이에 부산신항 콜드체인 물류시설을 중심으로 국내외 기업들에게 차별화된 물류서비스 제공 예정

부산신항을 중심으로한 항만 콜드체인 물류 허브 육성



 2040년 최종 완공되는 부산신항 배후 글로벌 콜드체인 물류 허브의 전초기지 역할 수행

현대적 항만 콜드체인 시설 공급을 통한 화주 니즈 충족



■ 부산 지역 내 3PL/e-commerce, 바이오, 백신, 특수장비, 화 제품, 고급 식자재 등 고부가가치 제품 보관 수요를 충족하기 위한 현대적인 대형 항만배후 콜드체인 시설 제공



Shipping Session I

Drybulker Market Trend & Prospect

Ms. Louisa Follis

Head of Dry Bulk Market Analysis | Clarksons

Tanker Market Trend & Prospect

Mr. Oliver Ge

Head of Research | McQuilling

Shipping Session I

November 1st 14:45~15:15



Ms. Louisa Follis
Head of Dry Bulk Market Analysis | Clarksons

TOPIC

Dry Bulk Market Overview and Outlook

SUMMARY

CURRENT MARKET

Louisa's presentation will look at current average freight rates and examine the key factors driving the dry bulk markets today. This includes what has changed since the start of the decade / Covid period when much international business faced disruption and congestion. Louisa will look at major dry bulk trade flows — their volumes and tonne mile impact, origins and destinations and the major themes giving support to the market and adding downside pressure in the current environment. This is basis the demand for tonnage and the supply of ships into the market. Louisa will also look at asset prices — newbuilding and second hand for the various sectors.

MEDIUM to LONGER-TERM VIEW

Louisa will give an outlook of the dry bulk markets with some insight into future demand side factors and vessel supply including shipyard limitations and competition from other sectors. She will examine the key drivers and risk factors ahead that could influence market earnings. Louisa will also introduce some of the key carbon–related regulations that are impacting the dry bulk market and will continue to do so over the next few years and what this means for asset values, trading patterns and investment opportunities.

CV

Louisa Follis heads up the dry cargo analysis team for shipbroker, Clarksons and has been based in the company's office in Geneva for about two years. She joined Clarksons in early 2019 in their Singapore office. This was after 8 years at grain trader, Bunge, in Geneva where she first managed the freight analysis team and then European agriculture analysis group. Prior to this, Louisa worked as a tanker market analyst for a large shipbroker in London and Singapore. Louisa has also extensive experience as a maritime journalist working in Asia, the Middle East and Americas which followed her Master's degree in Shipping Trade & Finance from City University in London. She also has a BA Hons in South East Asian Studies and a Graduate Diploma in Law.



Disclaimer

Clarksons Shipbroking

The material and the information (including, without limitation, any future rates and/or forward looking predictions) contained herein (together, the "Information") are provided by Clarkson Shipbroking Group Ltd ("Clarksons") for general guide.

The Information is provided on "as is" and "as available" basis. Clarksons and all its Group companies make no representations or warranties of any kind, express or implied about the completeness, accuracy, reliability, suitability or availability with respect to the Information. Any reliance placed on such Information is therefore strictly at the recipient's own risk and no responsibility is accepted for any loss or damage howsoever arising. Please note that future rates and/or forward looking predictions are for illustration purposes only and given without guarantee; the ultimate outcome may be different.

This Information is not for reproduction or distribution without Clarksons prior written consent. Especially, the Information is not to be used in any document for the purposes of raising finance whether by way of debt or equity. All intellectual property rights are fully reserved by Clarksons, its Group companies and/or its licensors.

This disclaimer shall be governed by and construed in accordance with English law.

COMMODITY QUAY, ST KATHARINE DOCKS, LONDON, UNITED KINGDOM, E1W 1BF



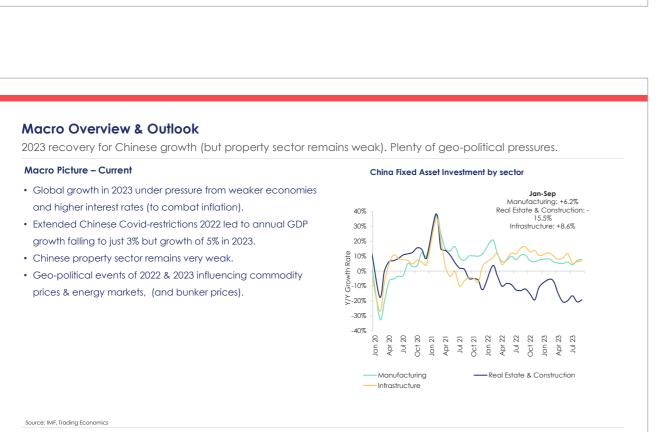
KOBC | Market Outlook | Clarksons

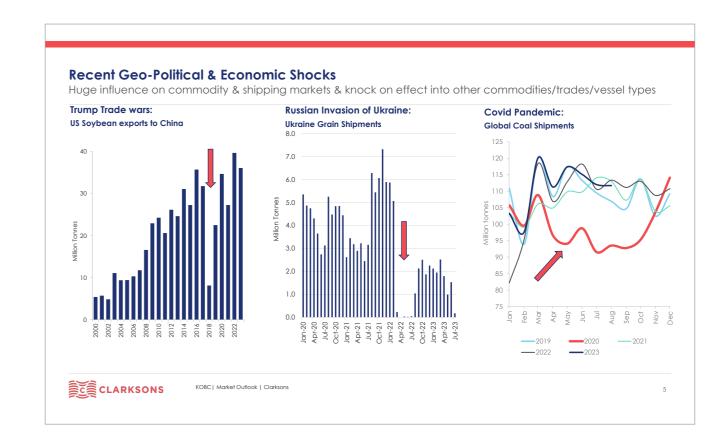
2

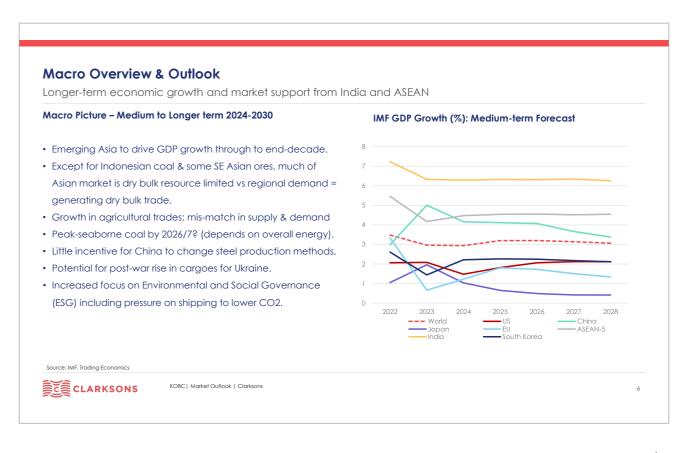
E CLARKSONS

KOBC | Market Outlook | Clarksons

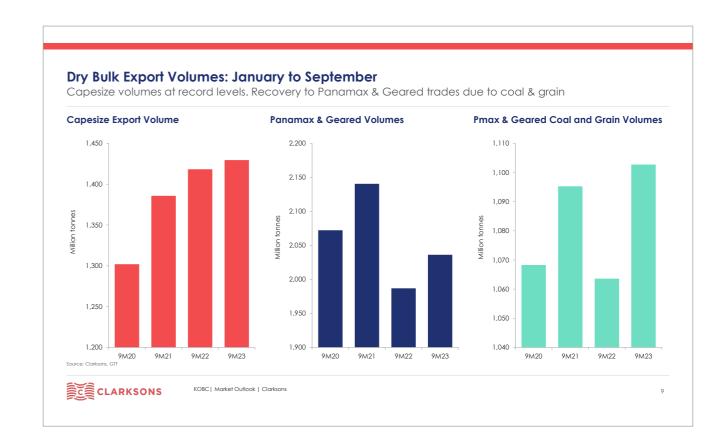


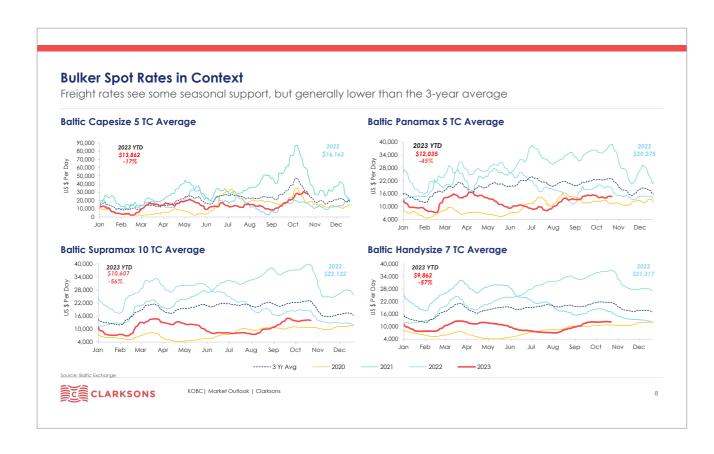


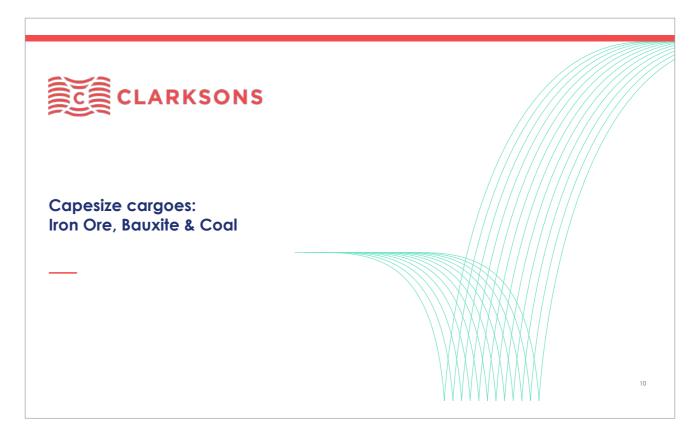


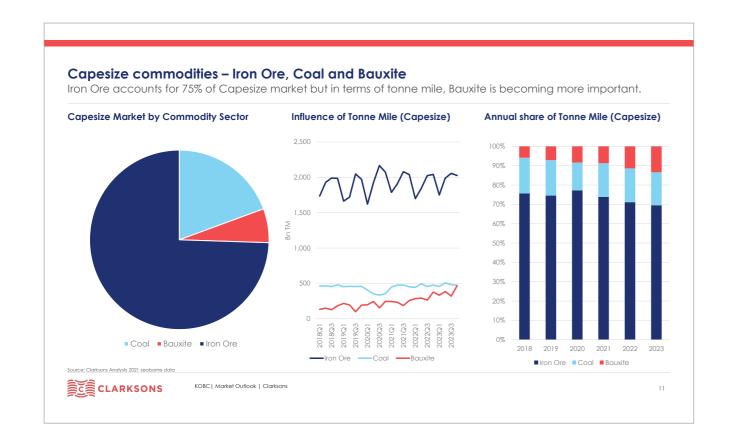


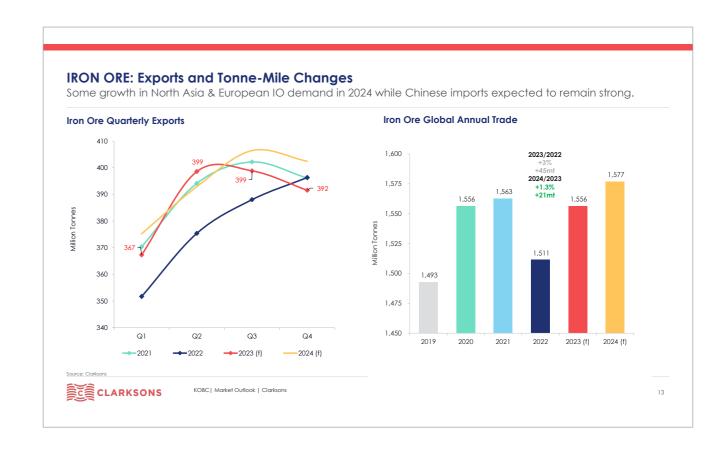


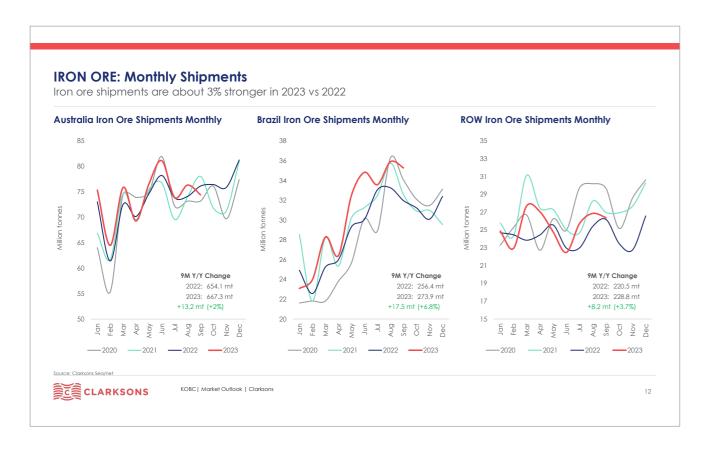


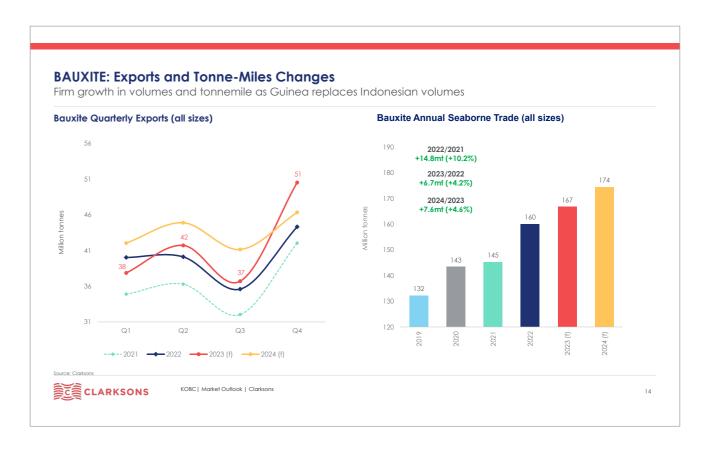


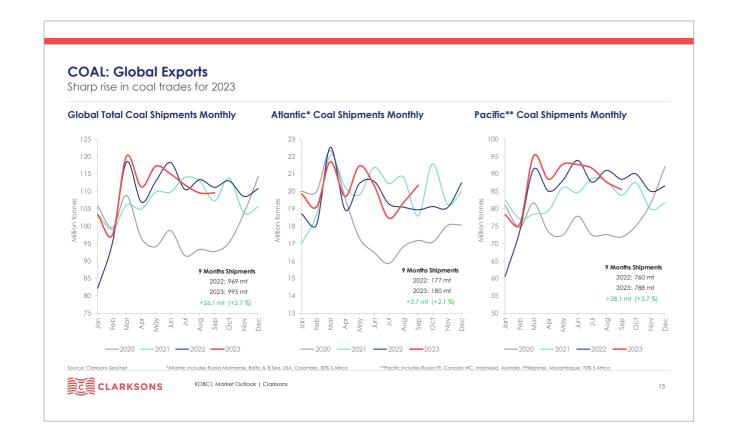


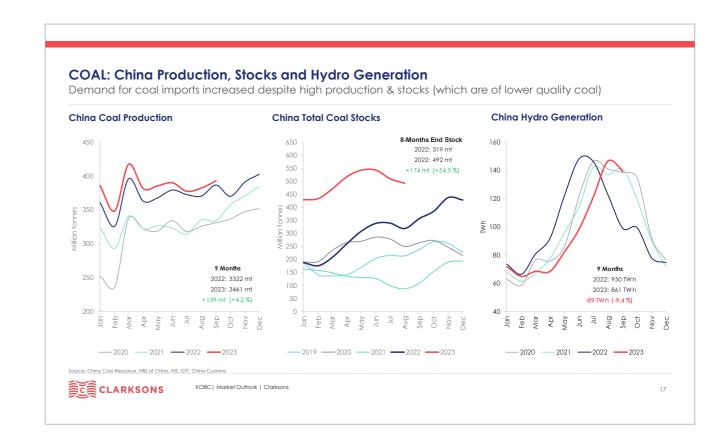


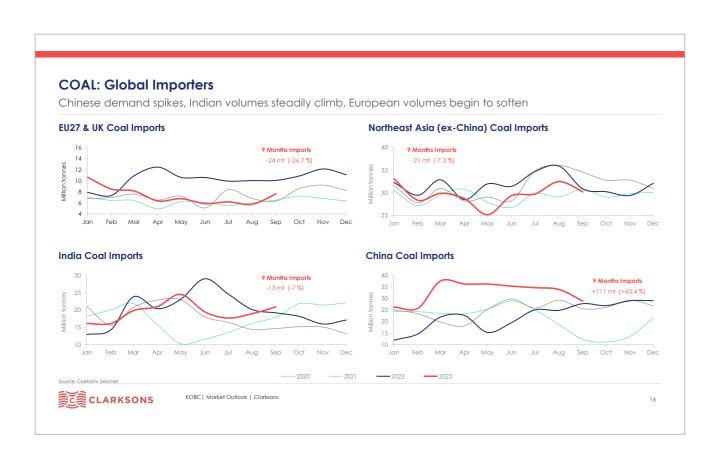


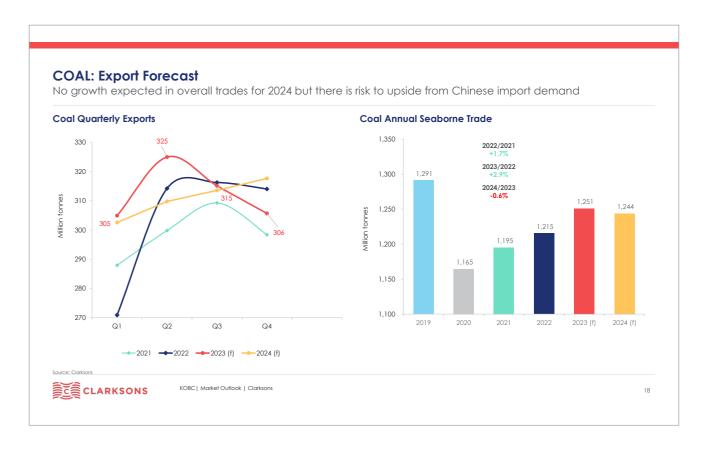


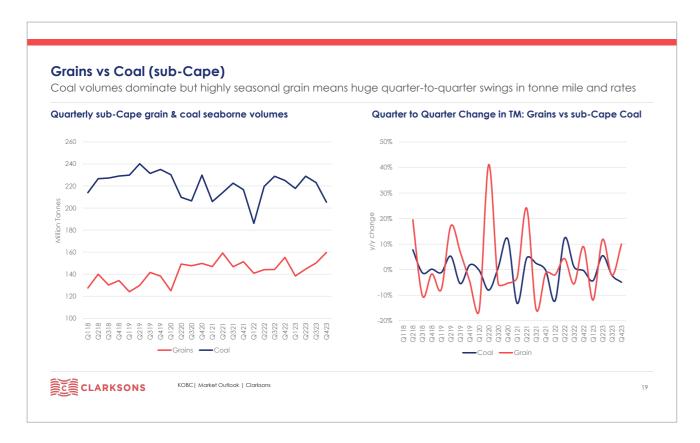




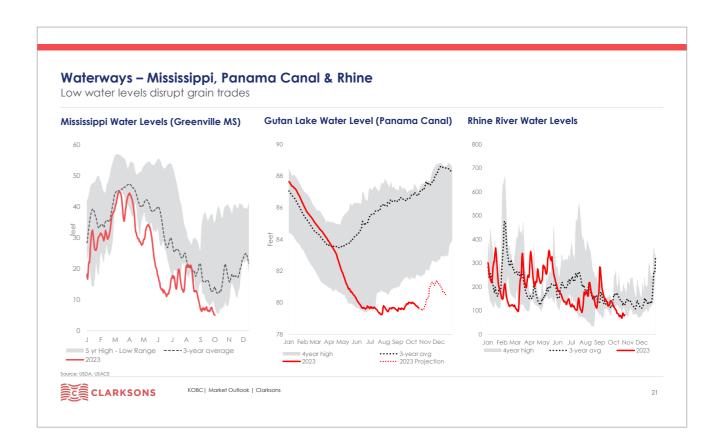


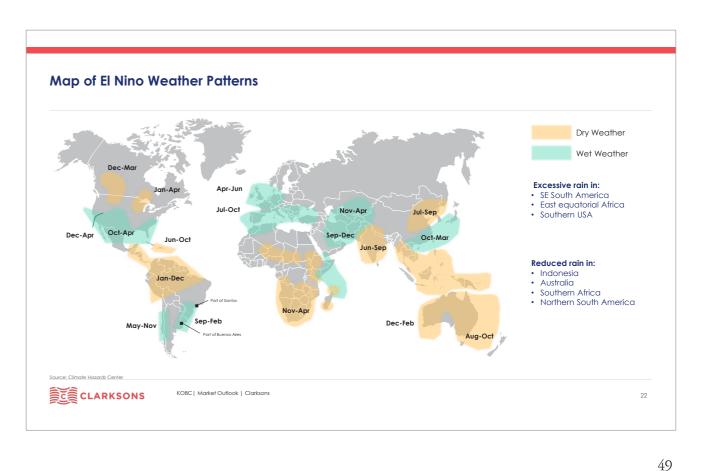






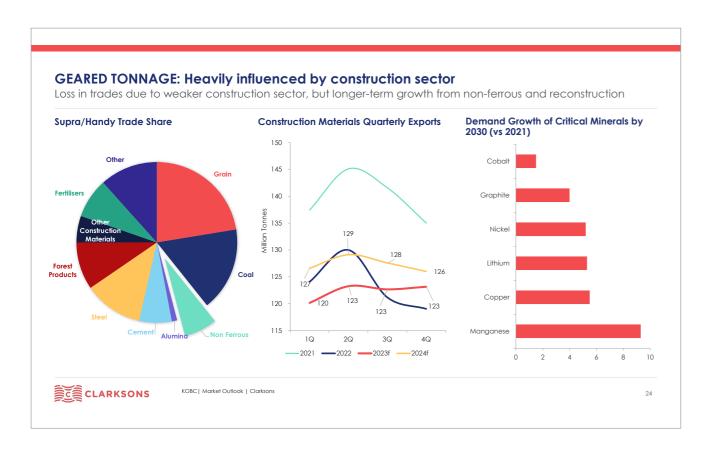


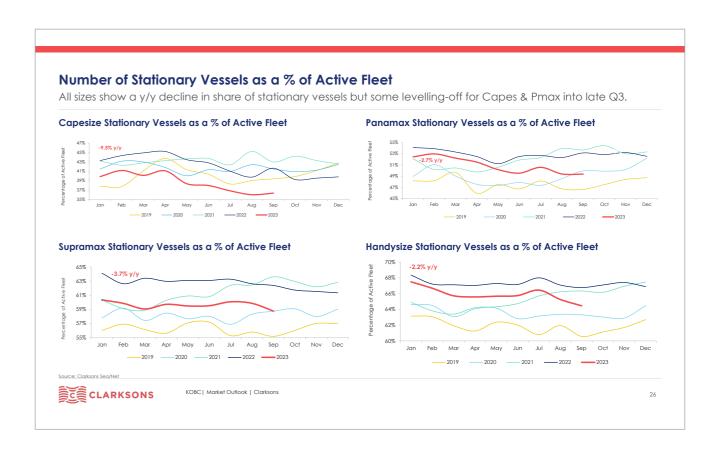


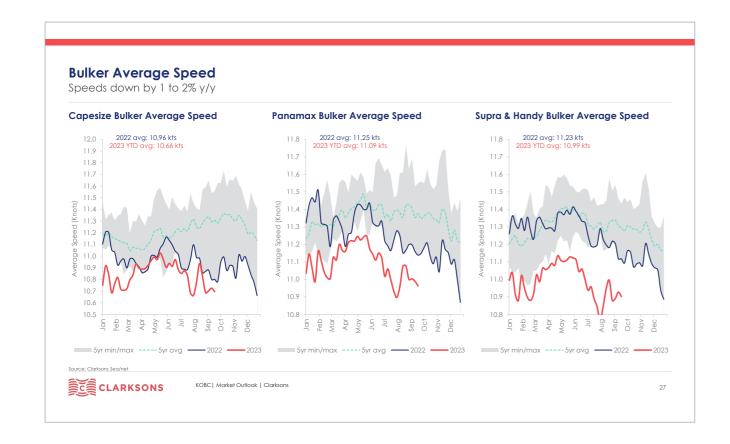


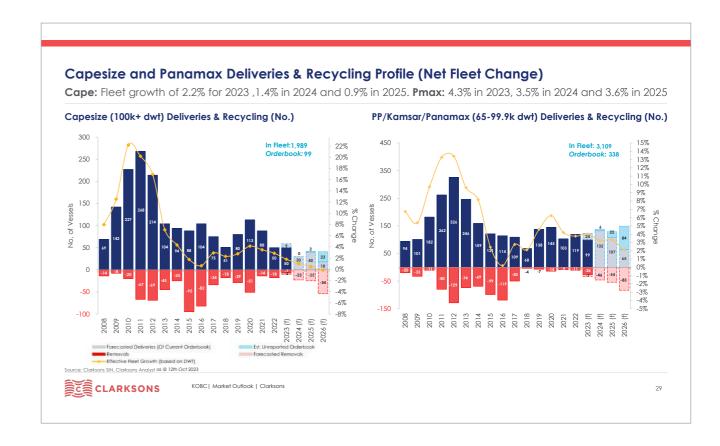




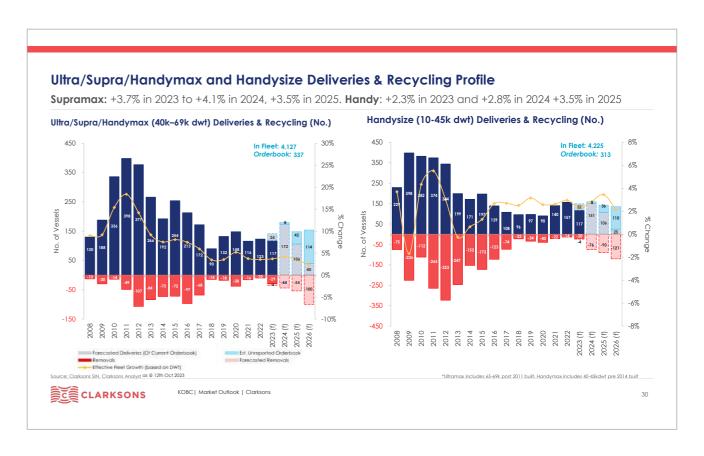


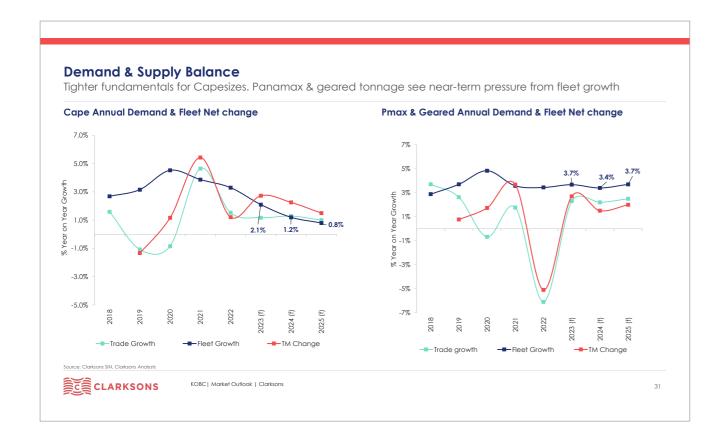


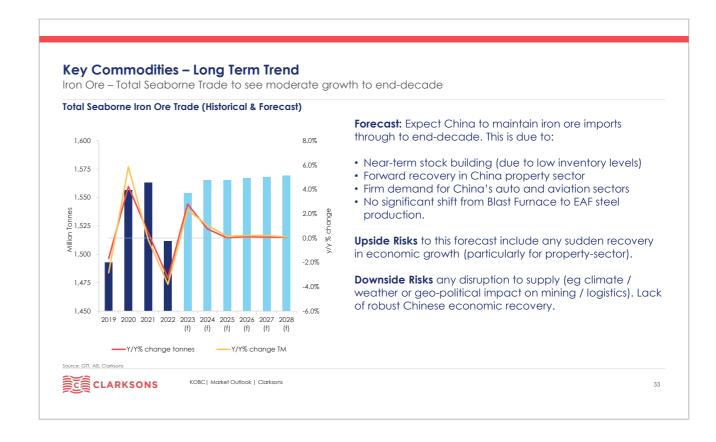






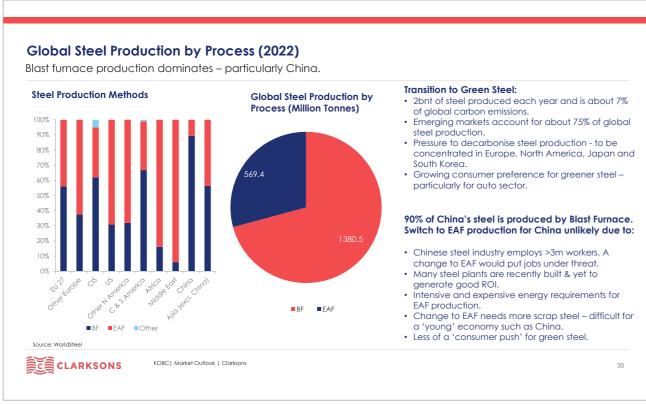


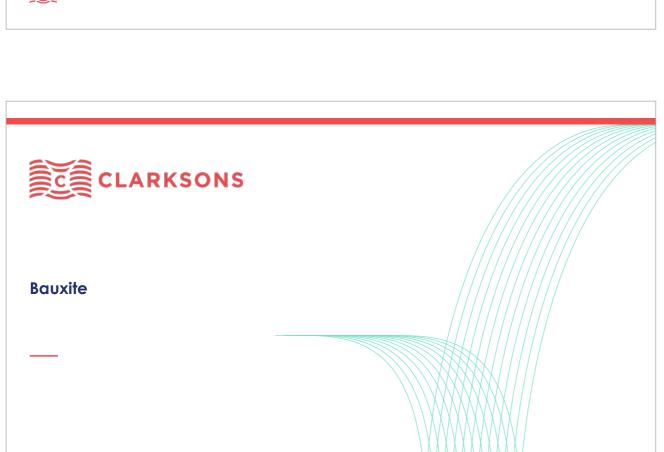


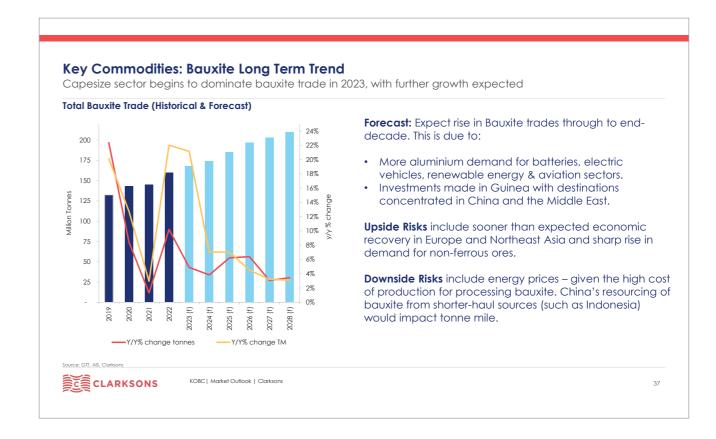


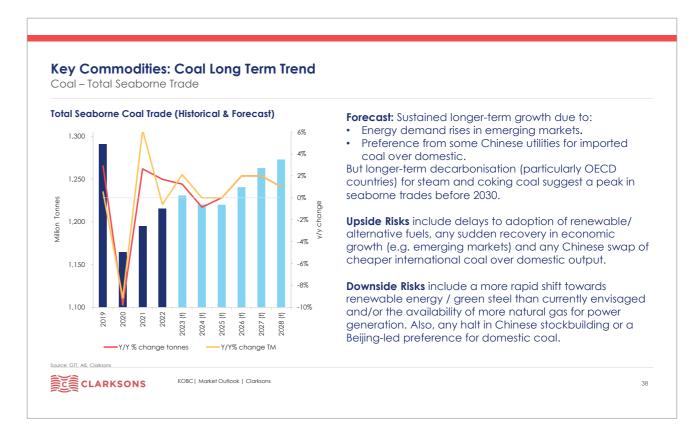


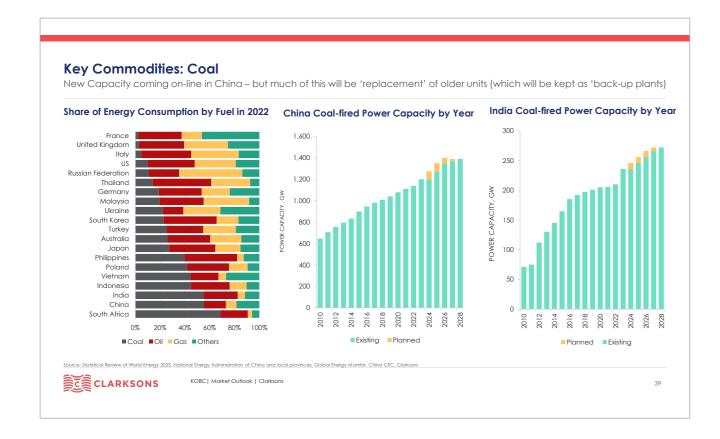


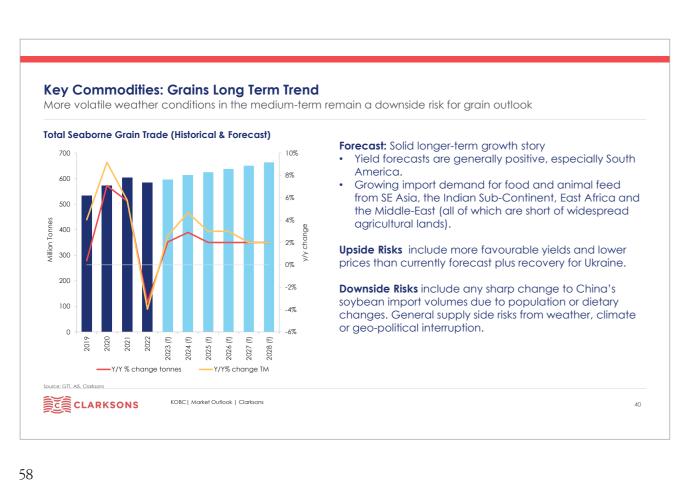


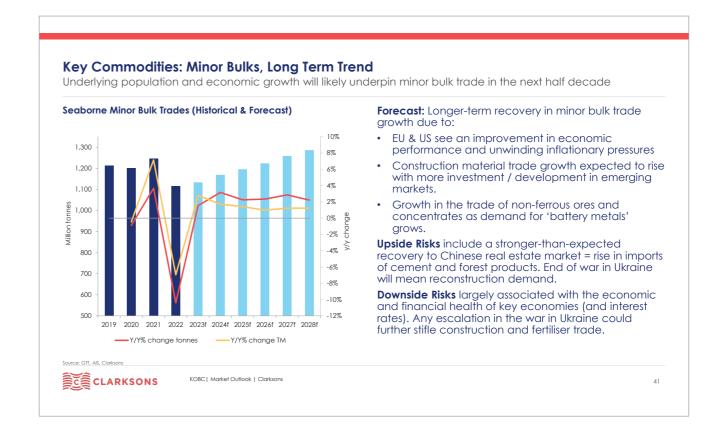




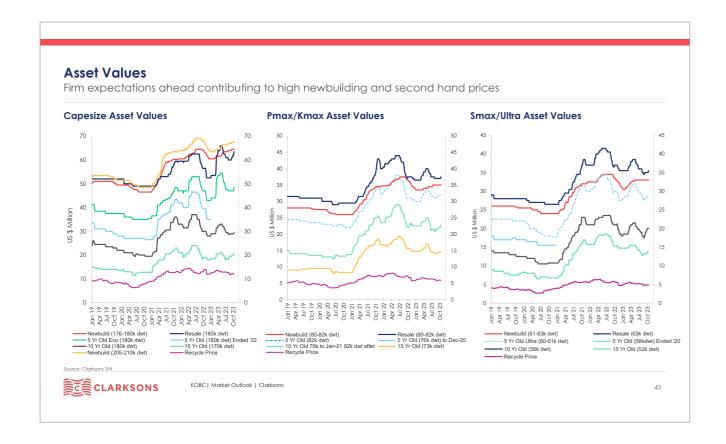


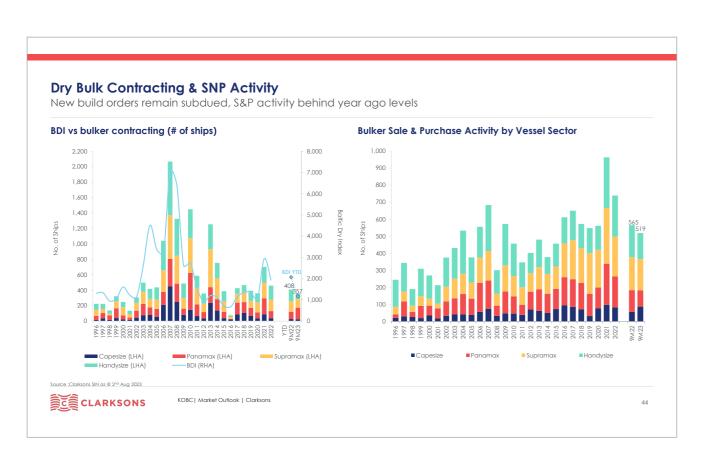


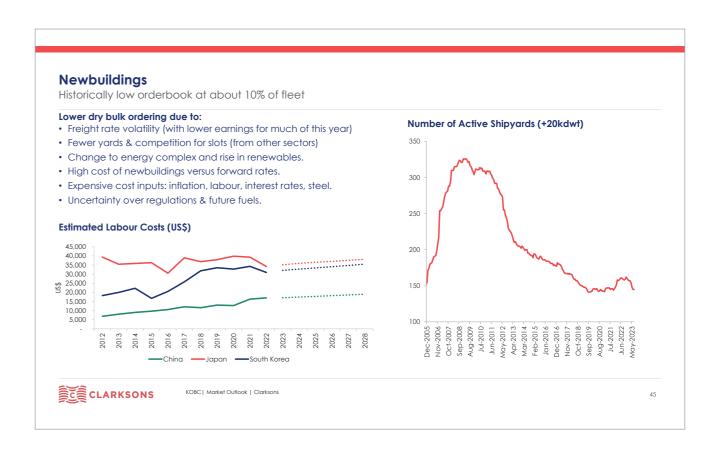


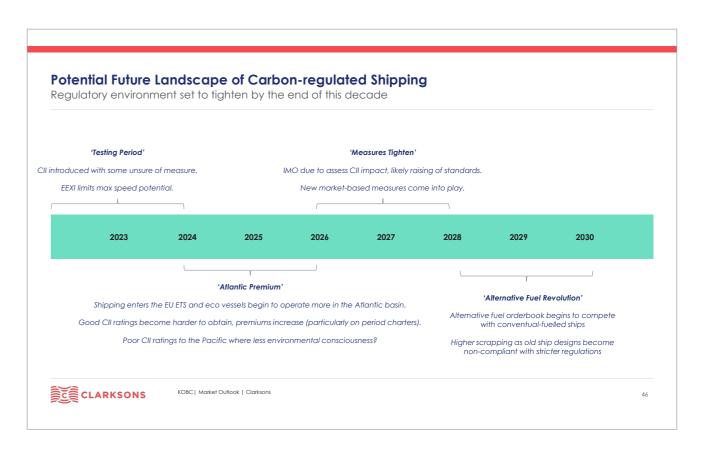








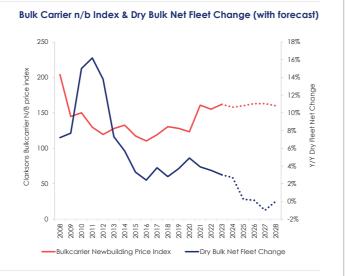




Outlook on Overall Newbuilding Environment: Capacity, Competition, Costs, Currency

Generally tighter yard space and fleet renewal expectations to keep upside pressure on prices

- Capacity: Yard numbers down by about 35% from 2010 (in CGT). Yards fallen from 300 in 2009 to around 130 today. 50 to 60% of these 'top-tier' & able to produce higher-spec ships with modern eco tech.
- Competition: Upside pressure on dry bulk n/b prices driven by firm ordering across all asset classes over last few years. But rising yard productivity to meet overall shipping demand from all sectors.
- Costs: Upside price pressure from cost of capital, labour, steel & energy. Higher demand for ecotonnage and & alternative fuels means upside price pressures, and time taken to build generally extended.
- Currency: Higher interest rates on the US\$, but healthy credit availability from some Asian lenders.





KOBC | Market Outlook | Clarksons

47

Outlook & Conclusions

Short term volatility but longer-term squeeze on vessel supply is possible given trade growth expectations

Shorter Term (2024/25):

- Volatility in freight rates with some downside pressure on earnings for Panamax and geared tonnage due to fleet growth.
- Capesize market to follow seasonal trend of weaker first half of year and stronger second half.

Longer Term (2026-end decade):

- Strong prospects for trade in grains, minor bulks, iron ore & bauxite. Limited growth for coal trades and possible decline by end-decade.
- Limited fleet growth post-2025. Very few alternatively-fuelled ships for dry bulk sector.
- Potential for more scrapping of older tonnage.
- Dry bulk could see two tier market emerge (eg Atlantic vs Pacific) due to lack of modern eco-tonnage and stricter regulations including EU ETS)

Vessel value

- Possible discounts in the second-hand market with weak spots in earnings but upside support for newbuilding prices at elevated levels through 2028 given trade expansion.
- Limited chance of significant n/b price given constraints and competition and 'green' ships taking longer to build.

Key Risks: Economic, Geo-Political, Climate & regulation

- Economic concerns (higher labour and commodity costs) & potential for higher interest rates remains.
- China any further deterioration in the economy could further undermine dry bulk commodity trades through mid-decade
- Geo-political: Deterioration of the situation in Ukraine / Mid East could lead to further economic downside to the OECD economies and higher energy costs.
- Commodity Supply & Prices: Any disruption to cargo supply at origin or a sharp increase in prices would directly impact dry bulk trade flows.
- Climate & weather: Any impact of El Nino on dry bulk trade operations or trading volumes (such as lower grain yields & low water levels).
- Vessel recycling potential for more scrapping than currently forecast given longer-levels of weaker earnings.
- Regulations any failure in the current regulatory plans to be implemented might push back owners' recycling plans and lead to increases in average vessel speeds.



KOBC | Market Outlook | Clarksons

48

Baltic Dry Market Baltic Dry Bulk Index (BDI) vs Dry Bulk Seaborne Trade China tightens Covid-19 lockdown China real estate debt crisis Strong Chinese 6.000 420 410 5,000 400 390 4,000 380 370 □ 3,000 360. 2.000 350 340 1,000 330 BDI 2023 (to date): Seaborne Trade (RHA) —BDI (LHA) **CLARKSONS** KOBC | Market Outlook | Clarkson



Shipping Session I

November 1st 15:15~15:45



Mr. Oliver Ge
Head of Research | McQuilling

TOPIC

Tanker Market Outlook: Navigating the Volatility

SUMMARY

The oil tanker market has entered a period with phenomenal uncertainties, which could shift shipowners' earning levels in a rapid manner. In this session, we will assess the impact of these volatility factors, including but not limited to:

- OPEC+ Policy & New Commers (US & Guyana)
- Sanctioned Barrels: Russia, Iran and Venezuela
- The Grey Rhino: Trans-Mountain Pipeline Expansion (TMX)
- New/Exited Refining Capacity
- Global Diesel Shortage
- A Rush in Tanker Ordering
- What is the "Shadow Fleet"
- Environmental Regulations: EEXI, CII & EU ETS

CV

Oliver Ge brings 10 years of maritime and business analysis experience to McQuilling Services.

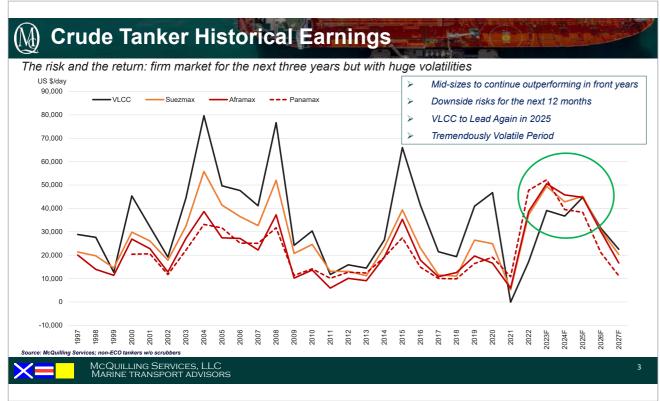
He graduated from Shanghai University of International Business and Economics with a Bachelor of Science in Finance and Economy and from Hofstra University with a Master of Science in Finance, specialized in risk management and quantitative finance.

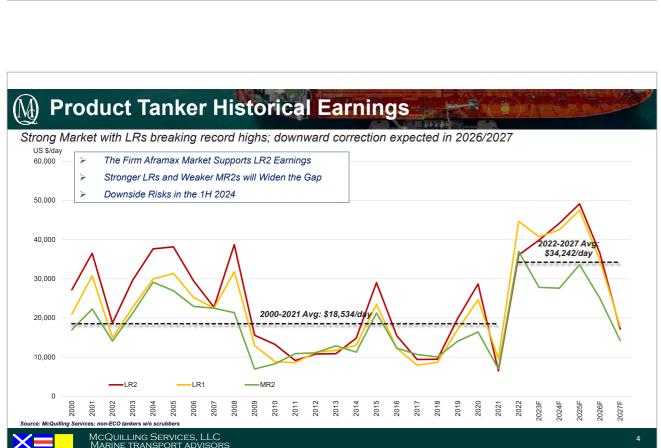
With an understanding of quantitative finance and international business coupled with analytics techniques, Mr. Ge developed a unique skill set in his academic career, which he carried through to his employment with McQuilling. Joining McQuilling Services in 2014, he has utilized his strong skill set in data management and analysis to lead and/or participate in over 60 independent consulting projects during the past 10 years.

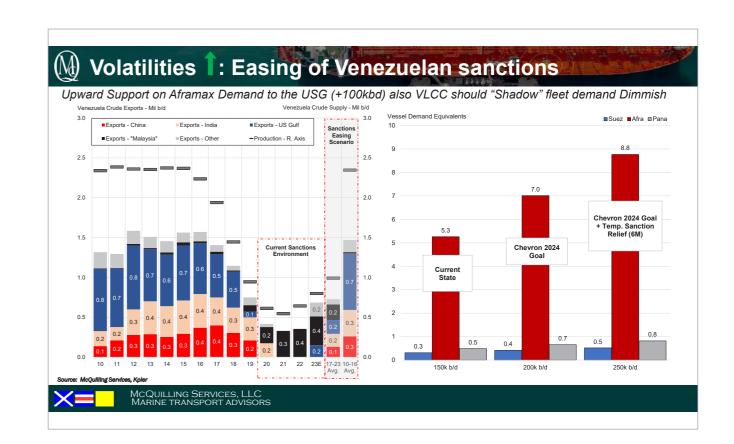
In his current role as the Head of Research, Mr. Ge leads McQuilling Services' market research for clients including oil majors, state-owned oil companies, shipping entities, shippards, and investment funds. Through industry seminars and market presentations, Mr. Ge has contributed to the company's goal to expand its global footprint in Southeast Asia, Far East and N & S America countries. In the meanwhile, he leads the company effort to design, maintain, and enhance McQuilling's proprietary data offerings, including but not limited to fixtures, freight, earnings, asset values, benchmarking, AIS ship tracking and global tanker voyage tracking systems.

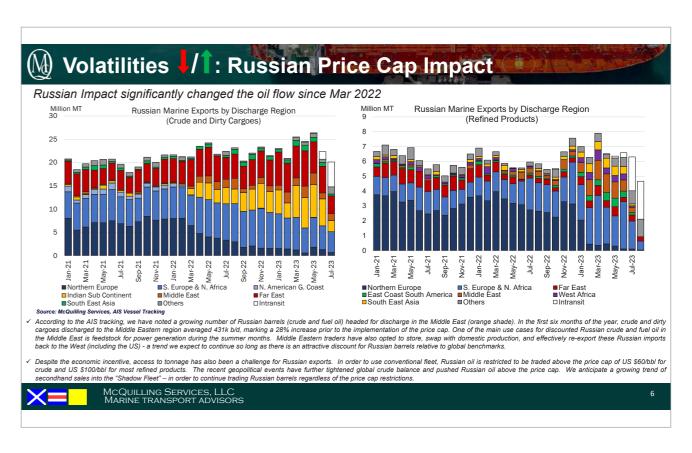


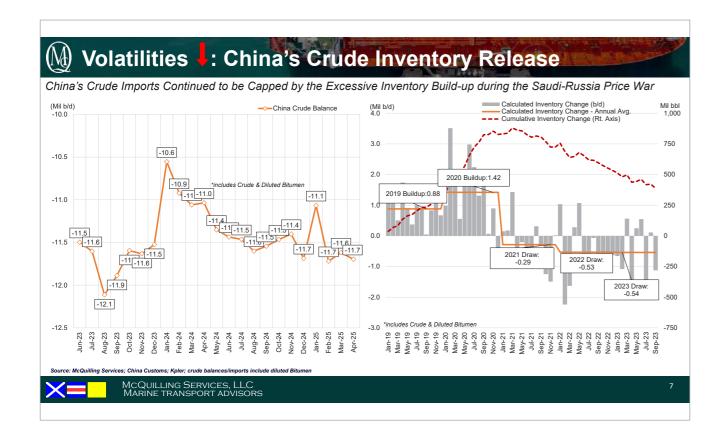


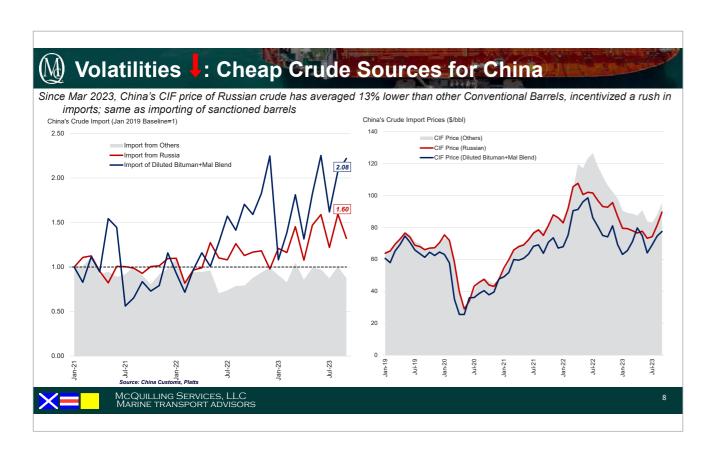


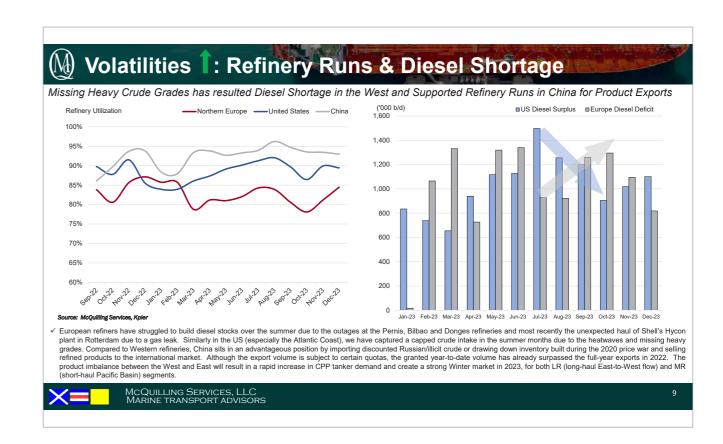


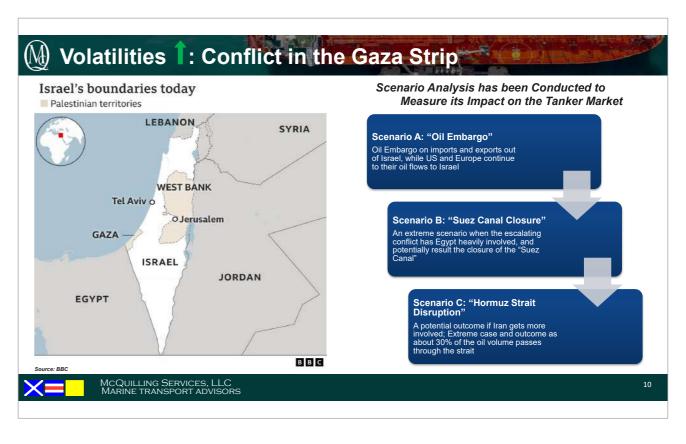






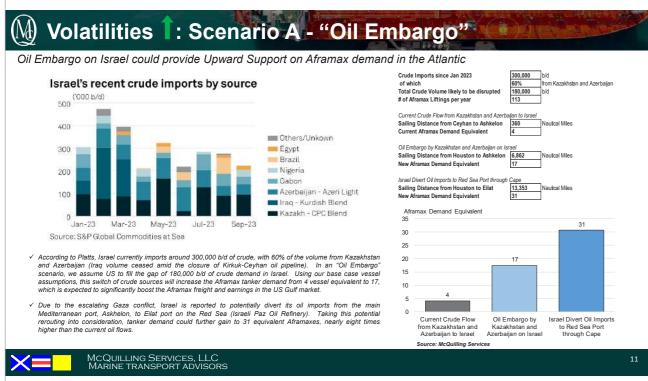


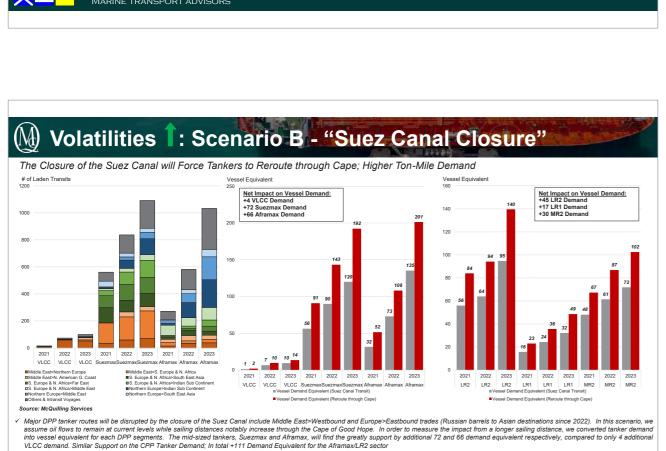


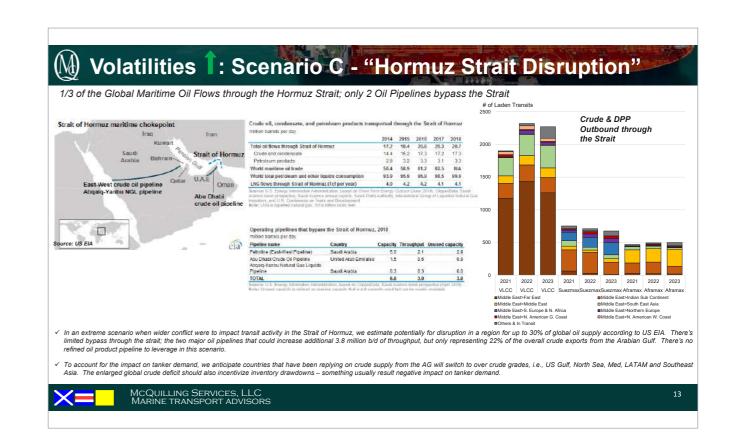


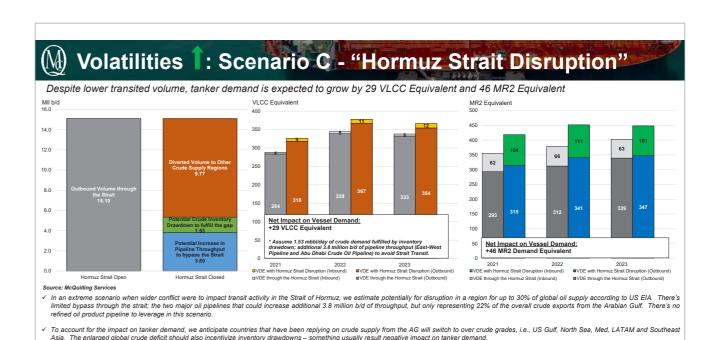
McQuilling Services, LLC Marine Transport advisors

70



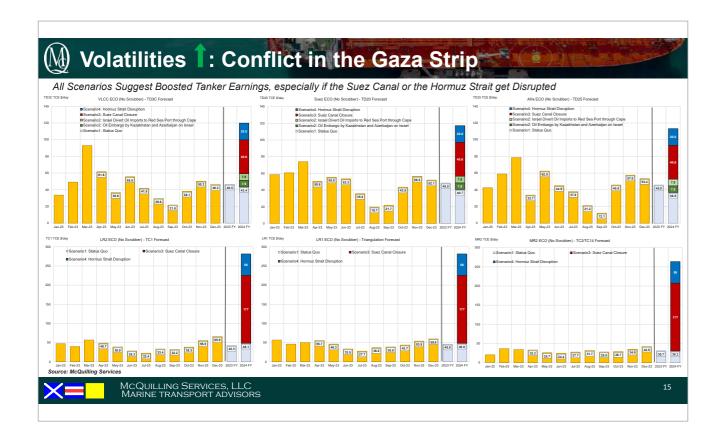


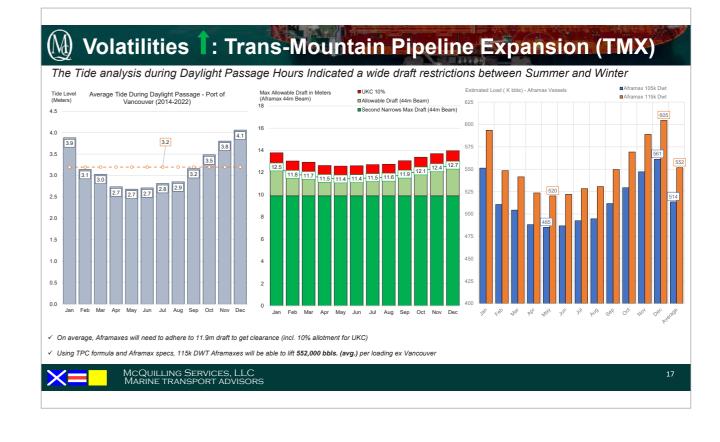


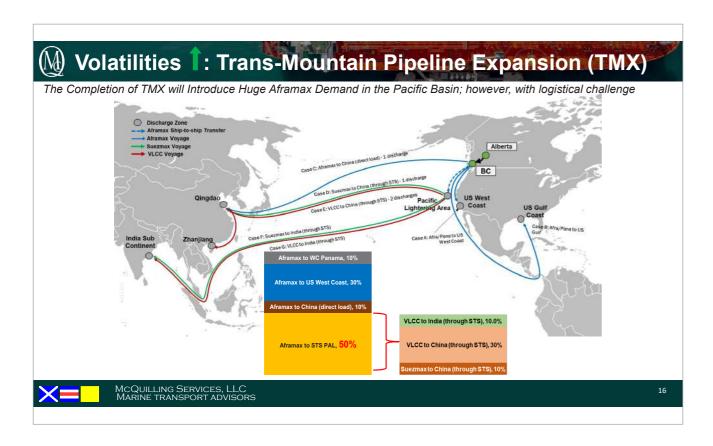


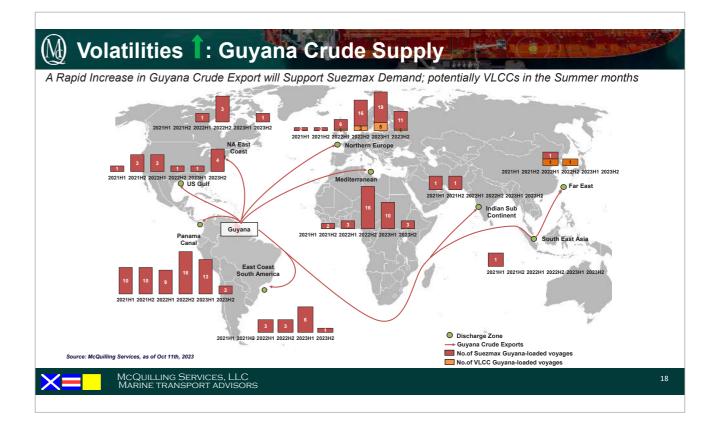
/ Similar to the DPP side, we foresee bearish demand impact on the larger tanker sector (i.e., naphtha flows to Asia) while MR2s are expected to find the largest support providing the flexibility on their deployment. To measure the overall demand side impact on the CPP tanker fleet, we have converted LR2 and LR1 demand impact into MR2 vessel equivalent. Based on our calculation, the disruption on Hormuz Strait is expected to add 46 MR2 demand equivalent.

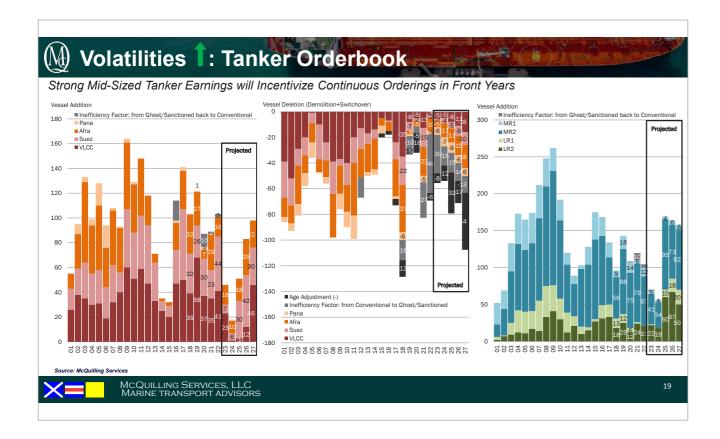
McQuilling Services, LLC Marine Transport advisors

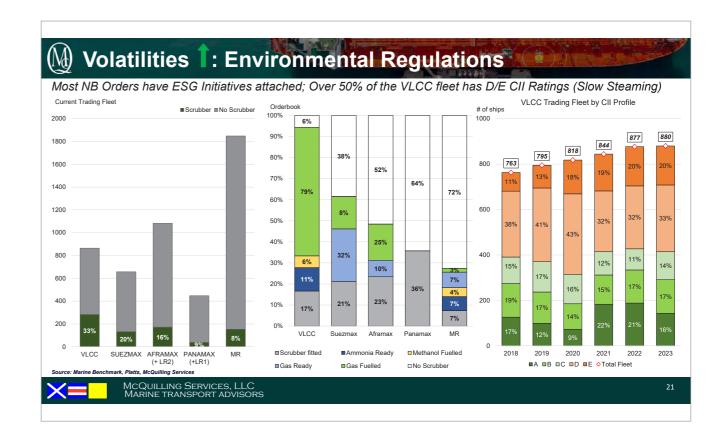


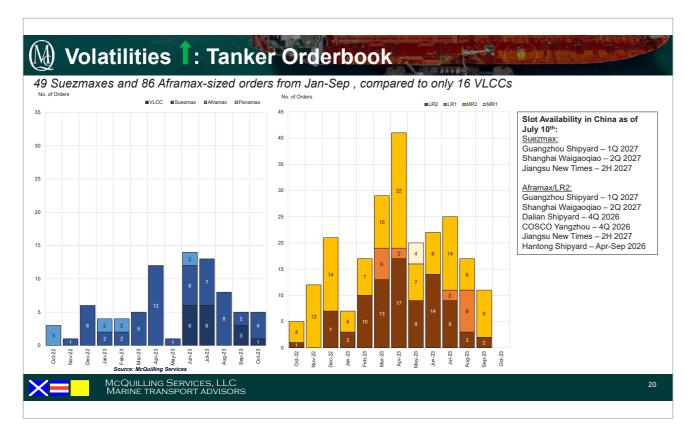


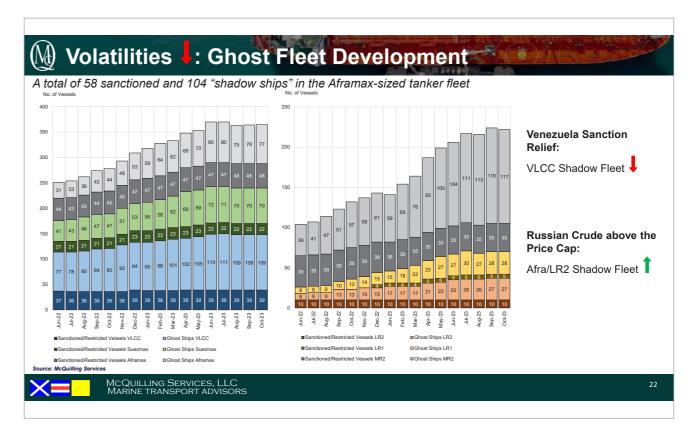


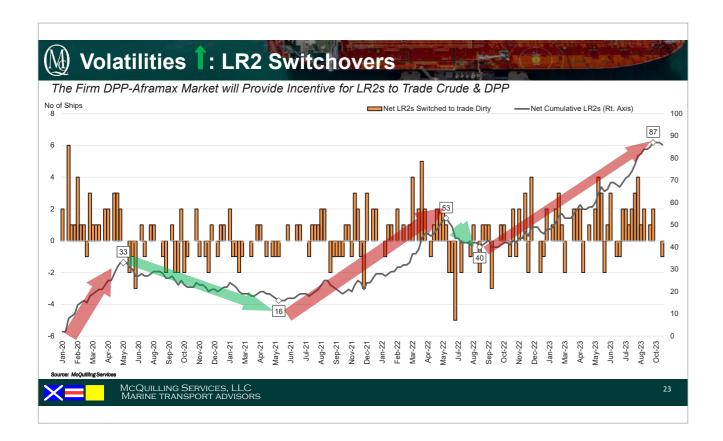


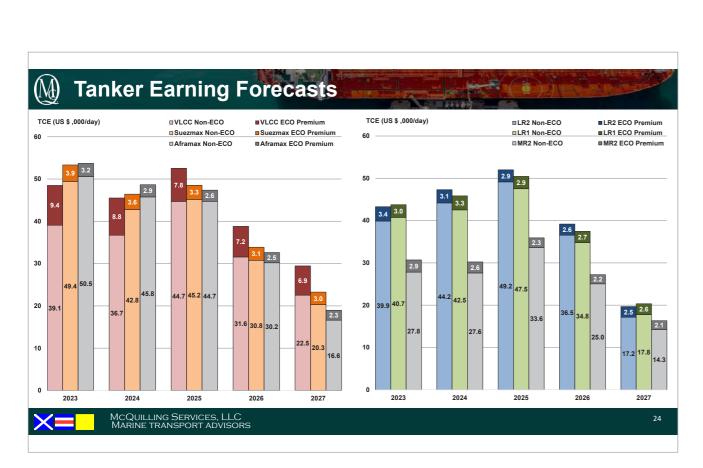


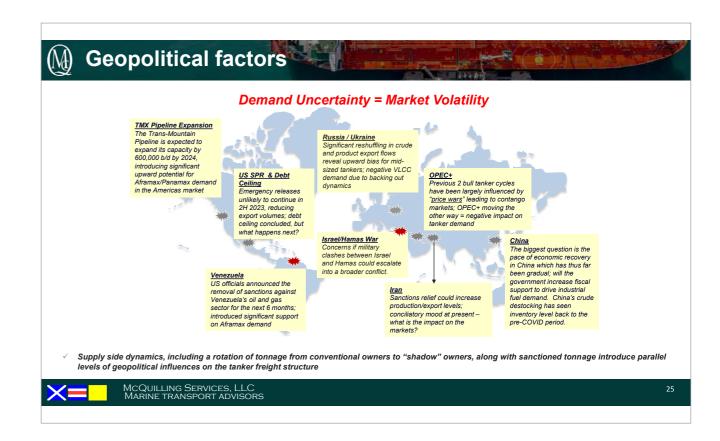
















Shipping Session II

Container Market Trend & Prospect

Mr. Jan Tiedemann

Vice President of Liner Strategy | AXSMarine

Sales & Purchase Market Trend & Prospect

Mr. Tom Evans

VP, Data Intelligence | VesselsValue (A Veson Company)

Shipping Session II

November 1st 16:00~16:30



Mr. Jan Tiedemann
Vice President of Liner Strategy | AXSMarine

TOPIC

The 2023 Container Shipping Market: key facts and outlook

CV

Jan Tiedemann holds a master degree in Economic Geography from the University of Hamburg. He also studied urban planning with a focus on infrastructure at the Technical University of Hamburg-Harburg (TUHH). He worked as a business consultant and analyst with multinational consultancy firms, the Senate of the City State of Hamburg, the Hamburg Chamber of Commerce and as a freelance consultant until joining BRS Group and Alphaliner in Paris, France, in 2007. In 2014, Jan Tiedemann moved back to Germany to launch the joint BRS-Group / Alphaliner office in Hamburg as Team Lead for the international Analyst team.

Since the 2021 merger of Alphaliner and AXSMarine, he moved on to become Vice President of Liner Strategy at AXSMarine, a multinational service and data provider for the maritime Industry. As such, he continues to develop AXSMarine's suite of products and is primarily responsible for Alphaliner.com, the world's leading provider of data and market intelligence for the liner shipping industry.





The 2023 Container Shipping Market key facts and outlook

prepared for the

KOBC MARITIME CONFERENCE 2023
Busan

November 2023

Jan Tiedemann, VP Liner

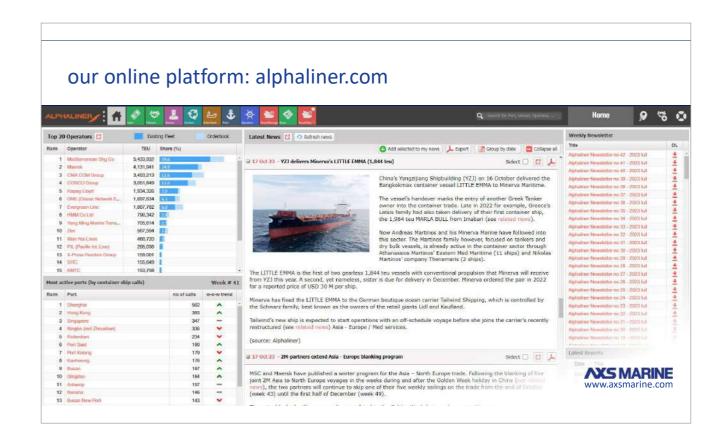


agenda for today

- 1. a short introduction: who we are and what we do
- 2. some basic market numbers
- 3. after three 'crazy' years back to normal?
- 4. supply and demand in the liner market
- 5. the vessel orderbook and the future 'green' fleet
- 6. outlook: Where is the market headed from here?

NXS MARINE www.axsmarine.com





about us

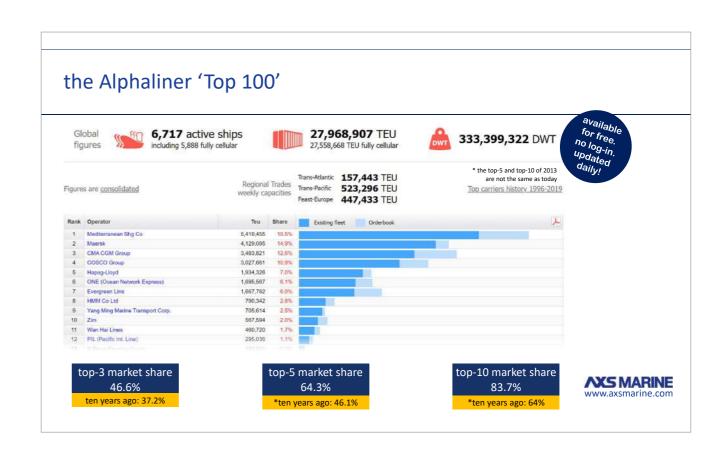
[1]

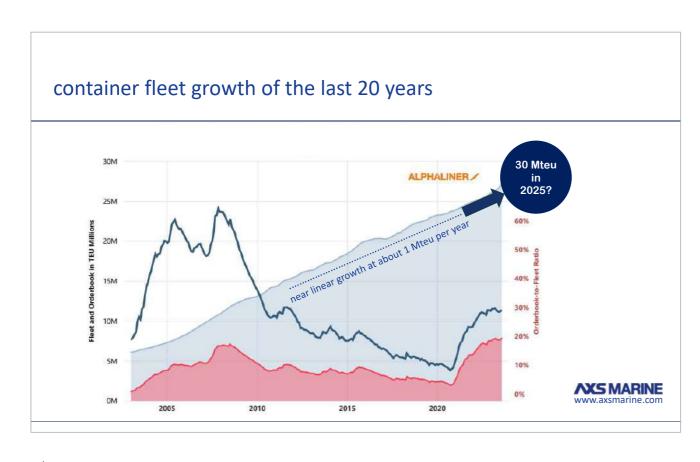
NXS MARINE www.axsmarine.com

- 1. AXSMarine is provider of data, market intelligence, digital platforms and software-as-a-service tools for the maritime industry.
- 2. We cover the dry bulk, tanker, commodities and container markets.
- 3. Around the world, some 220 dedicated professionals work for AXSMarine.
- 4. We are present in Paris, London, Hamburg, Singapore, Houston, Dubai and Sofia.



	y numbers			
	Sep 2023	Sep 2021	Sep 2019	
number of liner ships worldwide:	6,692 ships	6,253 ships	6,129 ships	
liner fleet capacity:	27.70 Mteu	24.61 Mteu	23.29 Mteu	
year-on-year fleet growth:	6.81%	4.32%	3.5%	
Inactive fleet (capacity share):	0.90%	0.70%	2.5%	
confirmed newbuilding orders (capacity):	7.77 Mteu	5.35 Mteu	2.29 Mteu	
vessel orderbook as % of fleet capacity:	28.5%	21.7%	10%	
container ship fleet average age:	13.7 years	13.0 years	11.9 years	
container ship fleet weighted age:	10.9 years	10.4 years	9.2 years	www.axsmarine.com







summary

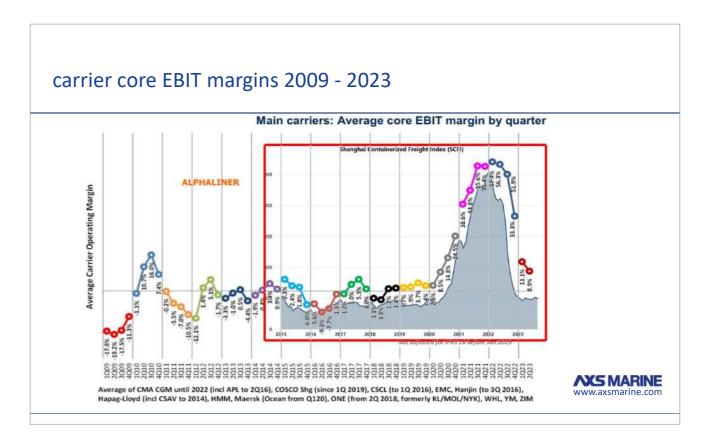
[2]

Www.axsmarine.com

- 1. Global fleet capacity is on track to hit 30 Mteu in 2025. This is six times as much as in the year 2000 and will mark a growth of 25.0 Mteu in 25 years.
- 2. The market is highly consolidated. Only ten 'global players' are left the others are 'niche' or 'regional'.
- 3. MSC is on its way towards a 'league of its own' with a fleet of ca. 6.0 Mteu in 2025. The shipping line could end up at almost 150% the size of Maersk (#2).
- The largest container fleet (27.7 Mteu) in history meets the largest vessel orderbook (7.8 Mteu) in history.

During and after the Coronavirus pandemic, the market saw a quick cargo volume increase since consumers shifted spending from services to goods. This increased containerized ocean transport. services vacations computers, toys furniture travel do-it-yourself items restaurant dining At the same time, various supply chain problems tied up 10% to 15% of the global container ship capacity. IMO-2020 **EVER** cargo and port **GIVEN** scrubber weather congestion retrofits Suez Canal events vessel supply **AXS MARINE**





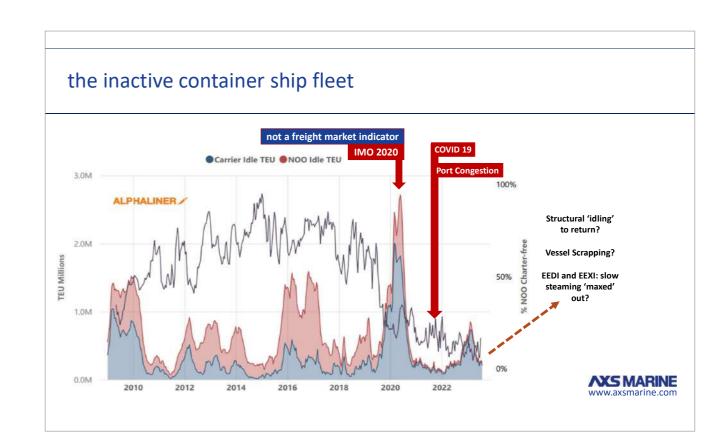
summary

[3]

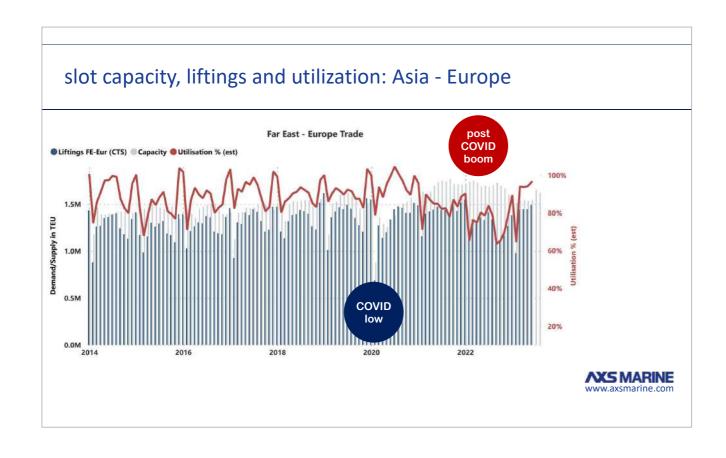
AXS MARINE

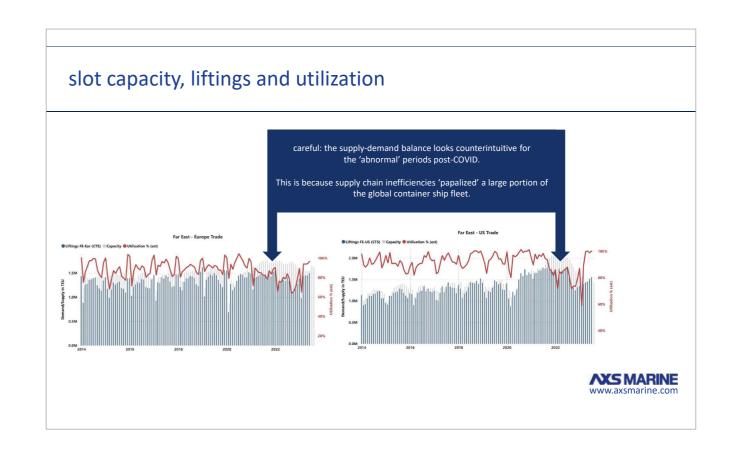
- 1. Carriers have made hundreds of billions in profits from 2020 2022, but the party is coming to an end.
- 2. Carriers use their massive profits to buy into 'everything': ship owners, lessors, ports, container terminals, airlines, logistics, warehousing, etc.
- 3. Many industry stakeholders are 'unhappy' about the inflated asset prices (newbuildings, terminals, etc.) caused by the carriers' deep pockets are their willingness to pay more than anyone else can.
- 4. Carriers have a big problem: Rates are (almost) back to pre-COVID levels, but their cost structure is much higher than before.

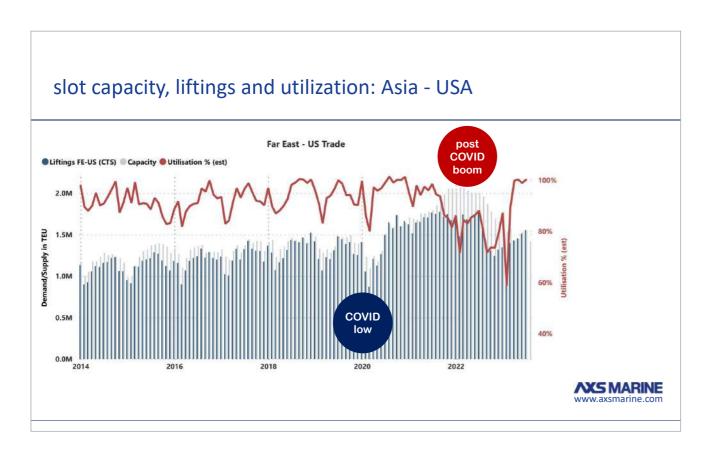


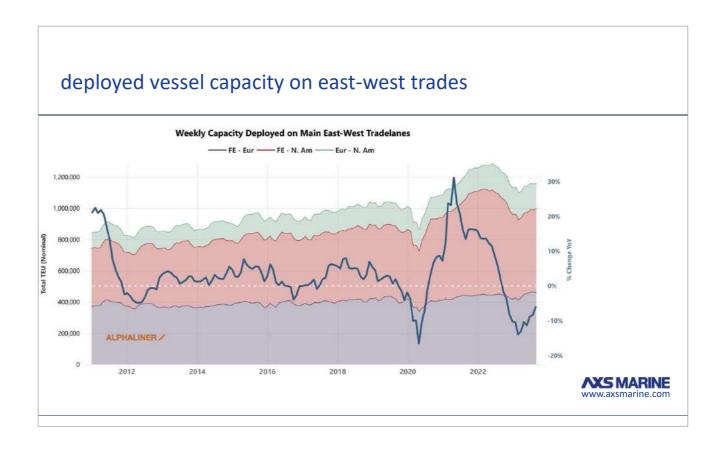


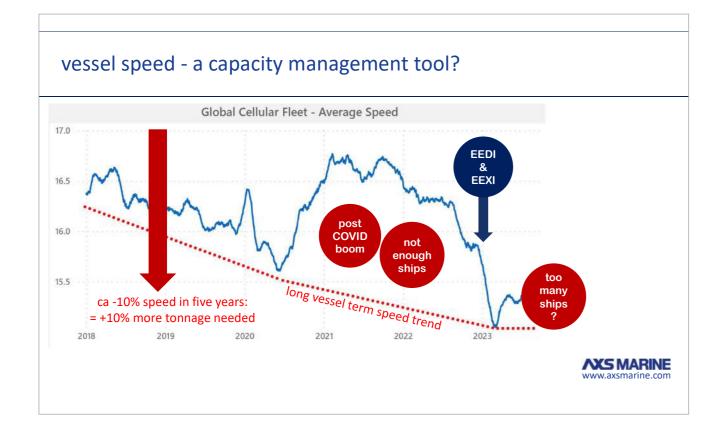










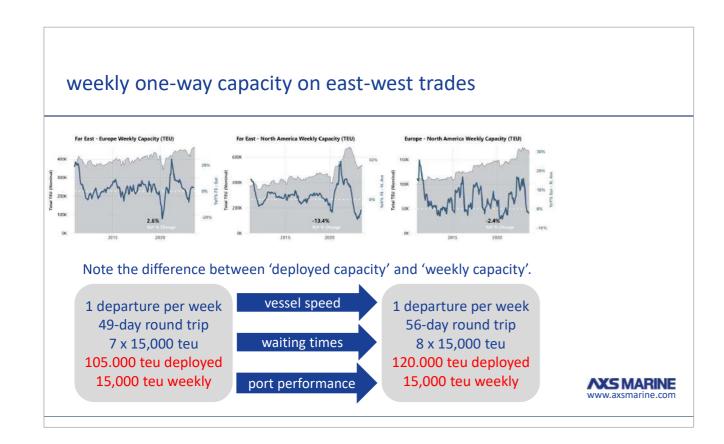


summary

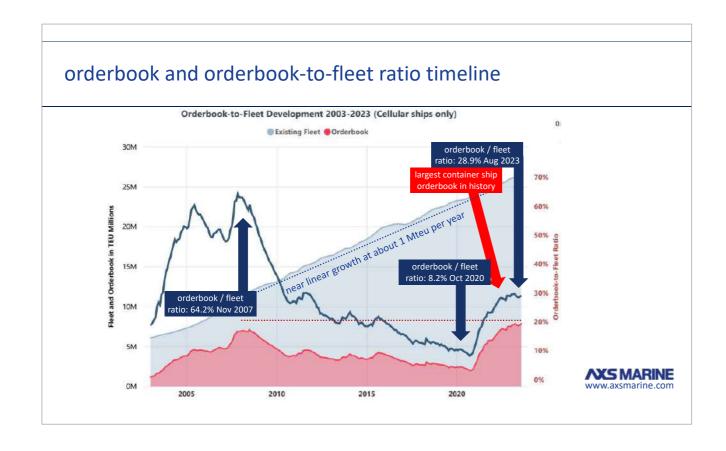
[4]

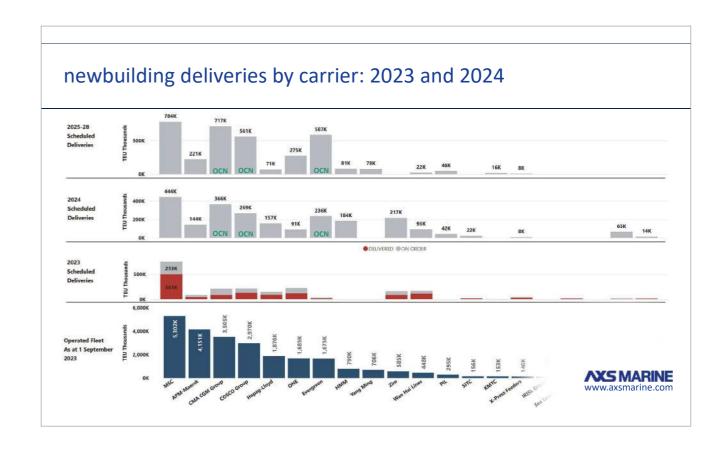
AXS MARINE

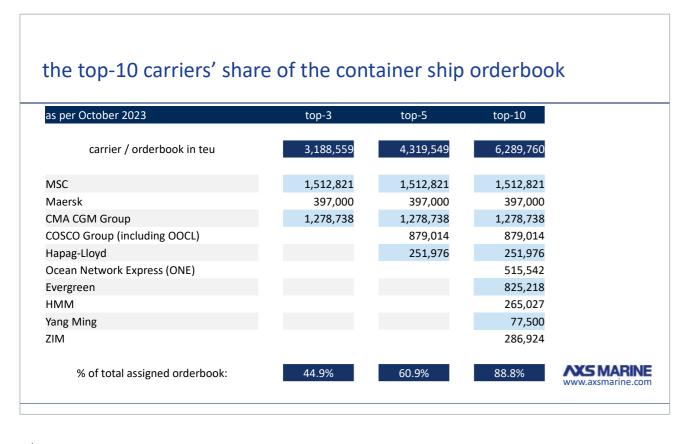
- Carriers have learned their lessons from the past, and they are much more adept at managing capacity. Market slowdowns will be met by service closures and/or void sailings programs.
- 2. However: Capacity management has its limits and capacity is expected to outgrow demand, no matter what the carriers will try.
- 3. Some carriers have actively built market share, whereas others (including big names) have let market share go.
- 4. In the past years, vessel (un-)employment was not a good supply-demand indicator but driven by other factors (IMO 2020, congestion, etc.).

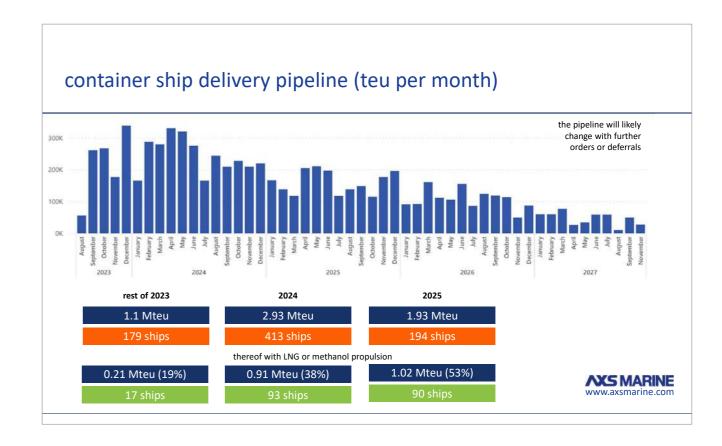


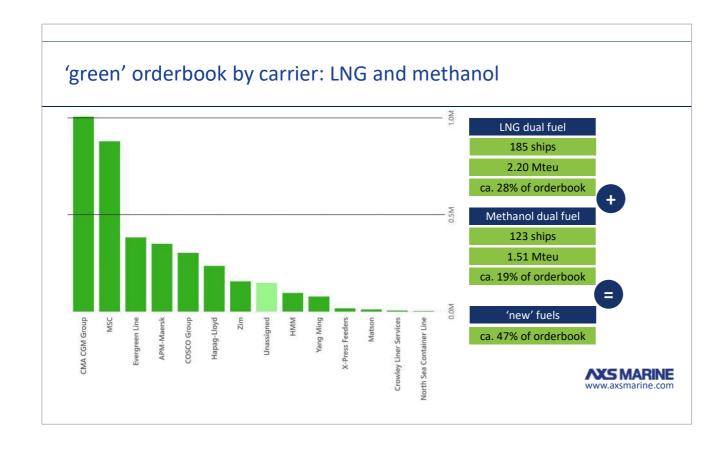




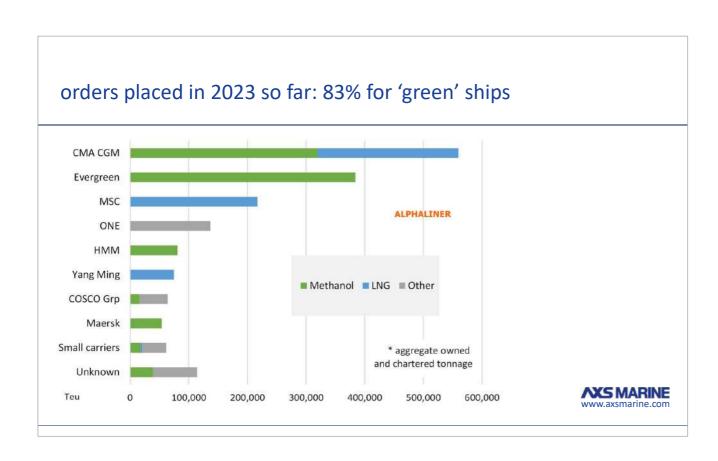














summary

[5]



- 1. MSC absolutely dominates this year's vessel deliveries at ca. 0.75 Mteu of capacity.
- 2. The members of OCEAN Alliance will 'strike back' in 2024 with a massive 0.87 Mteu combined between CMA CGM, and COSCO/OOCL.
- 3. The 'green' orderbook of LNG (18%) and Methanol (19%) combined now accounts for almost half of the total orderbook (47%).
- 4. The decarbonization challenge has moved from the vessel to the strategic procurement of sustainable fuels.
- 5. Decarbonization will cost billions. Cargo owners and consumers will ultimately have to foot the bill.

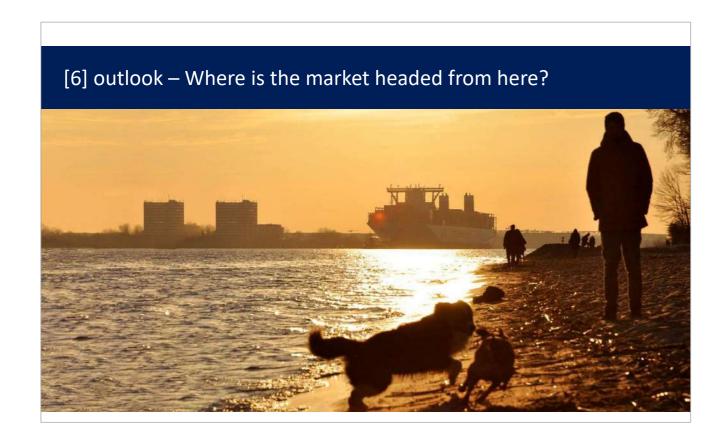


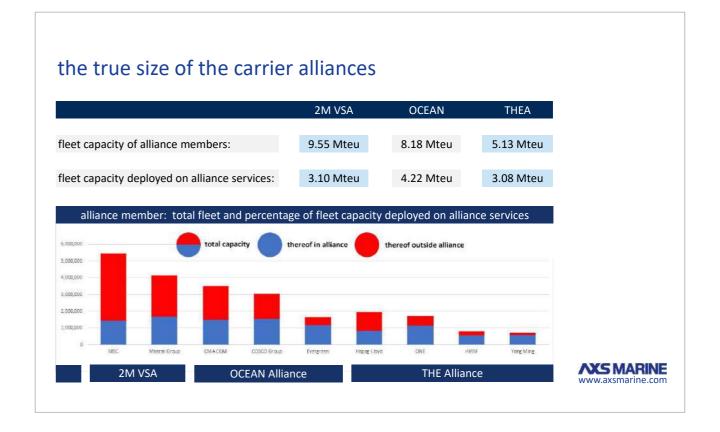
short term challenges

- 1. slow winter season demand, tonnage overcapacity, collapsing freight rates
- 2. increasing costs for labor, bunker fuel, vessels, carbon pricing
- 3. general labor shortage (trucking, terminals, crewing, etc.)

long term challenges

- 1. transition to new fuels (methanol, LNG, ammonia) and procurement of these 'green' fuels at scale.
- 2. tougher regulation of the liner shipping market, cooperation, consortia and alliances.





the true size of the carrier alliances

	2M VSA	OCEAN	THEA
fleet capacity of alliance members:	9.55 Mteu	8.18 Mteu	5.13 Mteu
fleet capacity deployed on alliance services:	3.10 Mteu	4.22 Mteu	3.08 Mteu

alliance member: total fleet and percentage of fleet capacity deployed on alliance services

carrier	in alliance	non-alliance	% alliance	total fleet	alliance fleet
MSC	1,431,377	4,012,482	26.3	5,443,859	2M VSA
Maersk Group	1,677,593	2,468,156	40.5	4,145,749	3,108,970
CMA CGM	1,500,027	1,994,186	42.9	3,494,213	
COSCO Group	1,545,884	1,496,850	50.8	3,042,734	OCEAN Alliance
Evergreen	1,173,690	476,073	71.1	1,649,763	4,219,601
Hapag-Lloyd	808,008	1,126,318	41.8	1,934,326	
ONE	1,149,060	548,574	67.7	1,697,634	
HMM	546,018	244,324	69.1	790,342	THE Alliance
Yang Ming	573,049	132,565	81.2	705,614	3,076,135



Jan Tiedemann

VP Liner - AXSMarine (,Alphaliner')

AXSMarine GmbH

Neuer Wall 52,

AXS MARINE

20354 Hamburg, Germany

jan.tiedemann@axsmarine.com

summary

[6]



- 1. Winter 2023/2024 will need substantial 'void sailing' programs since demand is expected to remain weak.
- 2. Carriers will implement even more slow-steaming and voyage diversions (from Panama to Suez, from Suez to Cape of Good Hope) in winter.
- USEC Labor Contract expired September 2024 strike action possible in H1 (USWC has been extended to 2028)
- 4. The 2M VSA (MSC and Maersk) will expire in little over a year. THEA and OCEAN will continue but could face some headwinds (especially OCEAN).
- 5. The end of the EU Consortia Block Exemption Regulation is a 'non-event', but it may set the tone.



www.axsmarine.com in

Shipping Session II

November 1st 16:30~17:00



Mr. Tom Evans

VP, Data Intelligence | VesselsValue (A Veson Company)

TOPIC

Outlook of Sales and Purchase Market

SUMMARY

The presentation to cover:

- 1. Sales and Purchase trend in 2023 in line with ship value changes
- 2. Asset value cycle relating to supply and demand of vessels
- 3. Asset value forecast with sector summary

CV

Tom Evans joined Veson Nautical following the VesselsValue acquisition in May 2023. He is the VP of Data Intelligence which includes the VesselsValue, Q88 and Oceanbolt brands. Before joining Veson Nautical, Tom rand the Data and Commercial functions of VesselsValue as the Chief Operating Officer. He remains an active Sale and Purchase shipbroker continuing to work with a number of Greek and Japanese shipowners and operators.



Limitations on Liability

The Customer acknowledges that VesselsValue Data are collated and processed by and on behalf of VesselsValue in accordance with methodologies and assumptions published and updated by VesselsValue from time to time which do not take into account particular circumstances applicable to individual Customers or Users and therefore; (i) are made available to the Customer on an 'as is' basis; (ii) are not intended as a substitute for formal valuations; (iii) should not be used solely as trading, investment or other advice; and (iv) are not intended as a substitute for professional judgement.

VesselsValue excludes to the extent permitted by law all implied warranties relating to fitness for a particular purpose, including any implied warranty that VesselsValue Data is accurate or complete or that access to VesselsValue Data Services will be uninterrupted, secure, or error free.

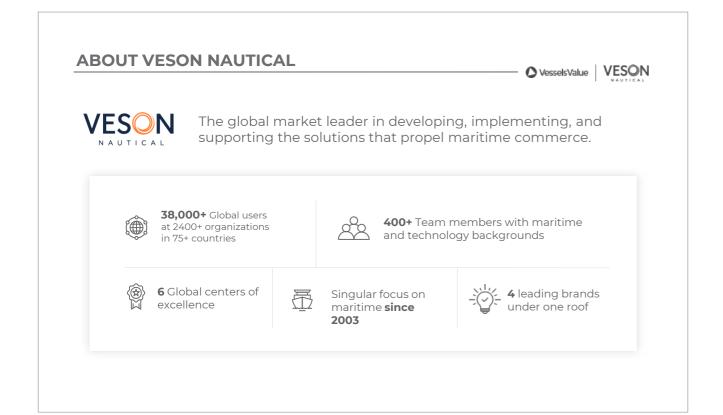
Vessels Value does not exclude or limit its liability for death or personal injury caused by its negligence or that of its agents.

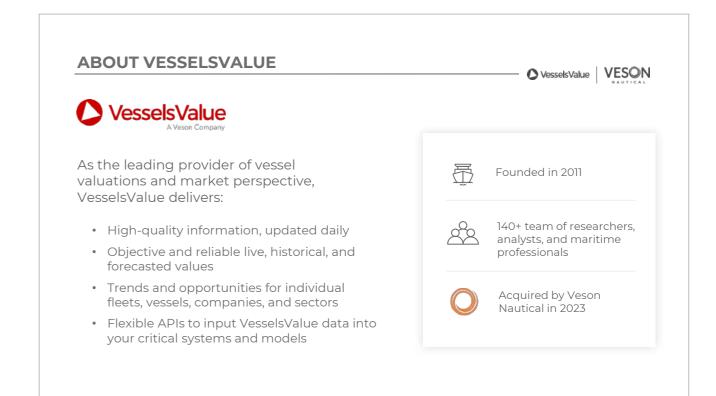
To the extent permitted by applicable law VesselsValue shall have no liability to any Customer for loss of profit or loss of business, or for any special, incidental, indirect and/or consequential damage of any kind, even if it has been advised of the possibility of such damage.

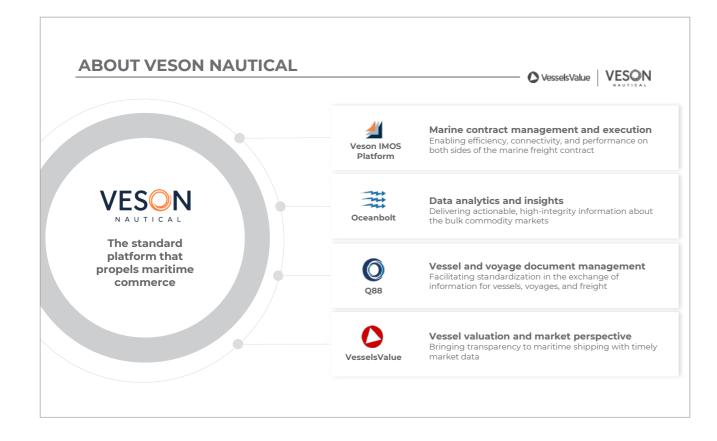
VesselsValue accepts no liability to any third party who benefits from, uses or relies on VesselsValue Data accessed by the Customer. The Customer will indemnify VesselsValue from and against any, losses, damages, costs and/or expenses incurred by VesselsValue in connection with any claim by any such third party relating to VesselsValue Data produced by or on behalf of VesselsValue for the Customer.

VesselsValue shall be under no liability for any failure, delay or omission by it arising from any cause beyond its control, including, but not limited to acts of God, acts or regulation by any governmental or supra-national authority, war or national emergency, denial of service attacks, fire, civil disobedience, strikes, lock-outs and industrial disputes.

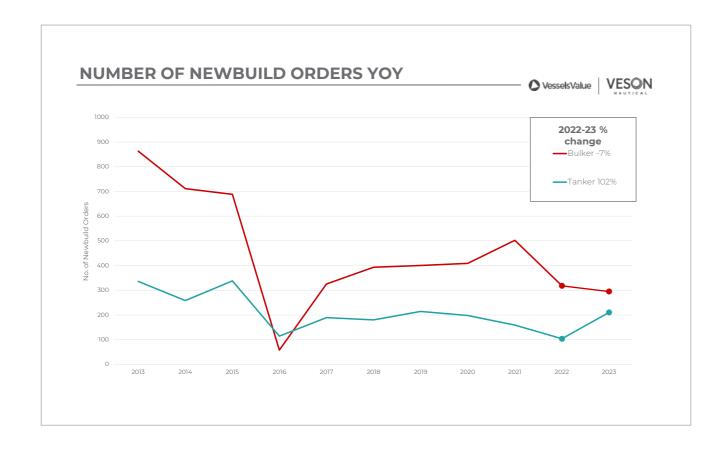
Vessels Value



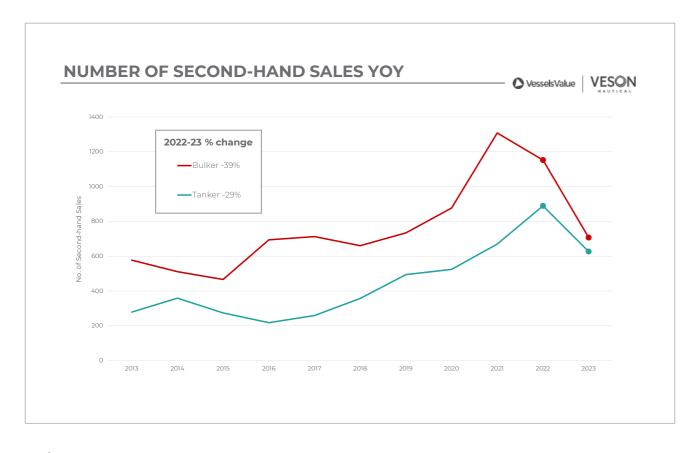


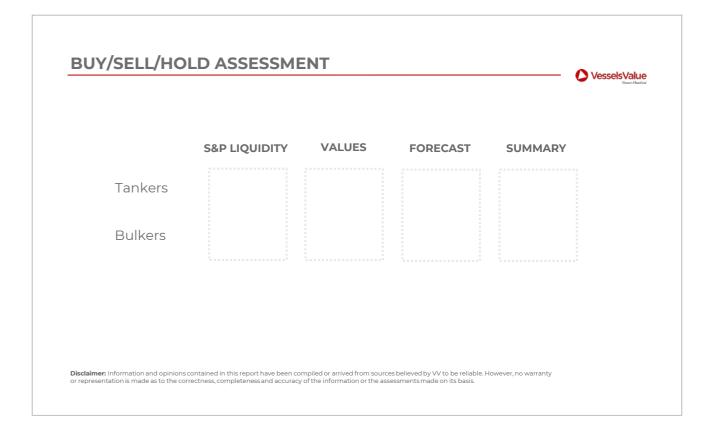




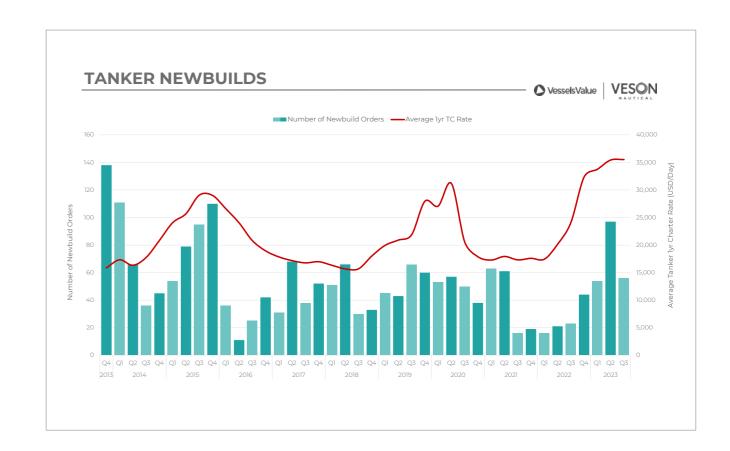




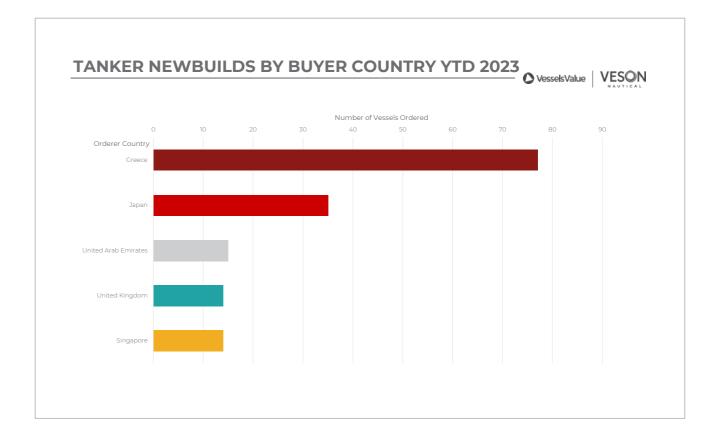


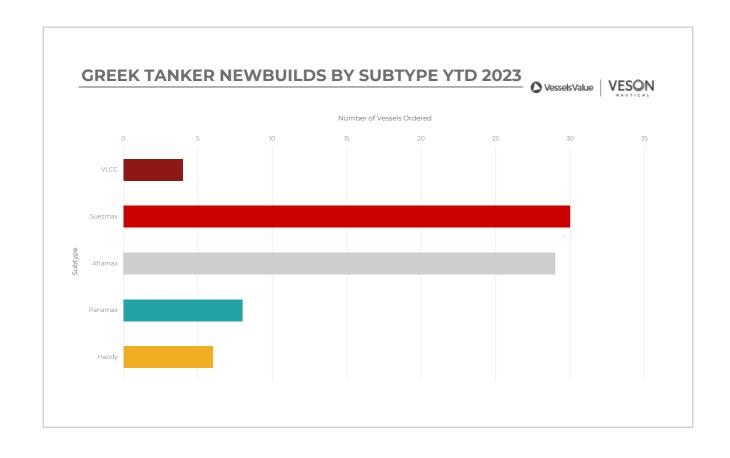


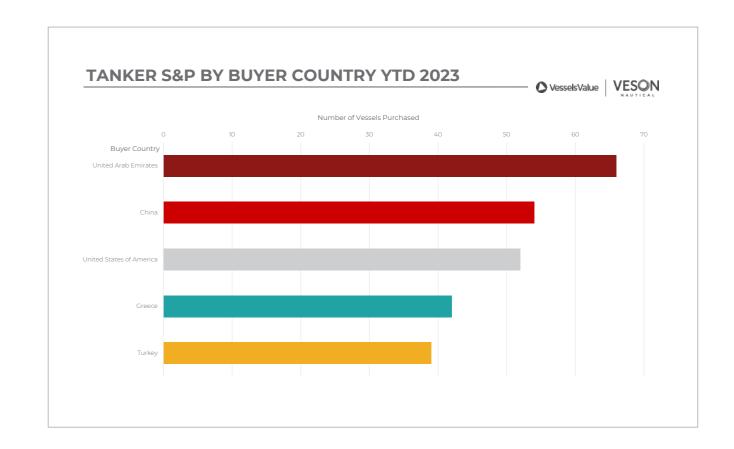


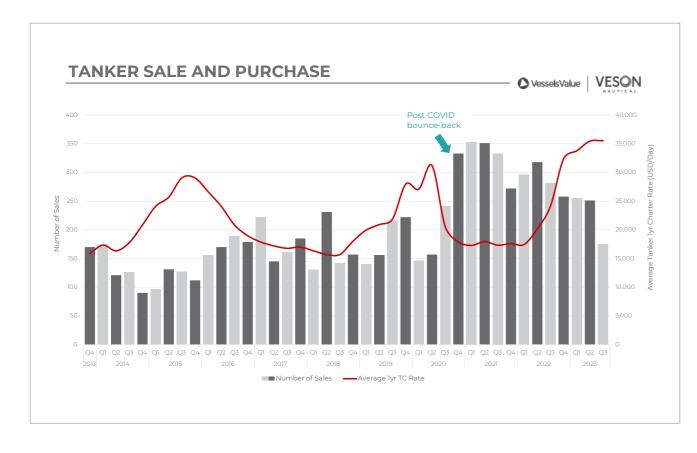


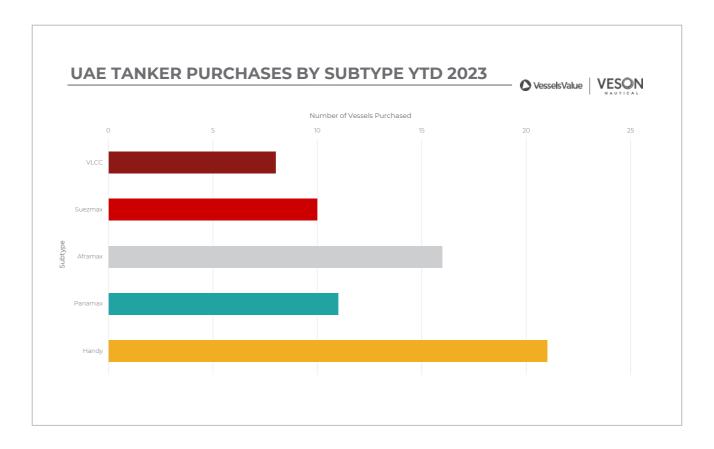


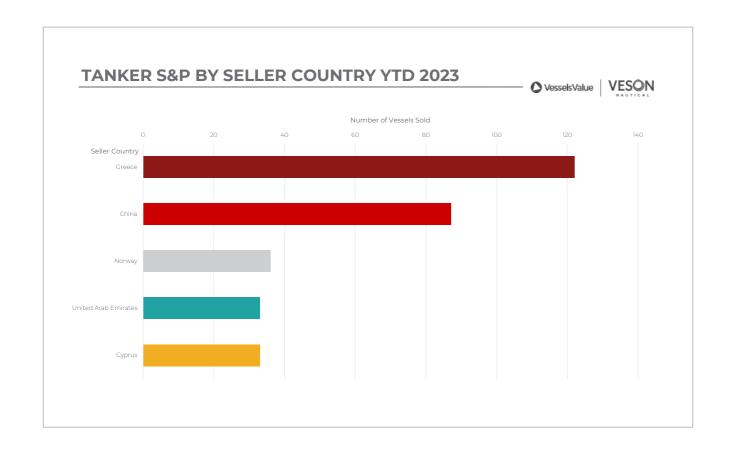


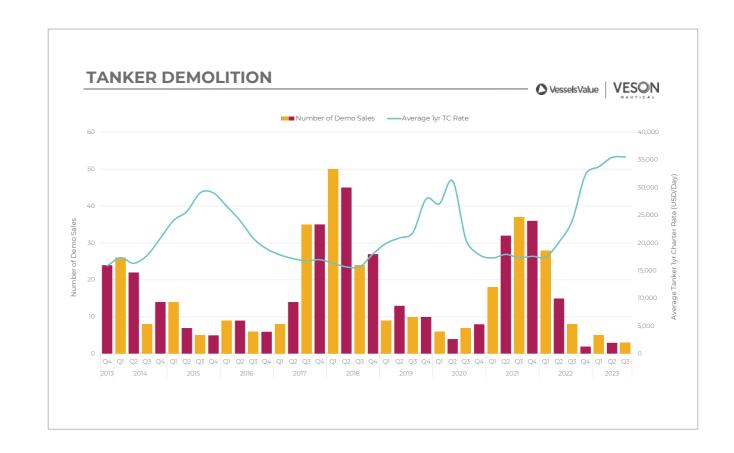


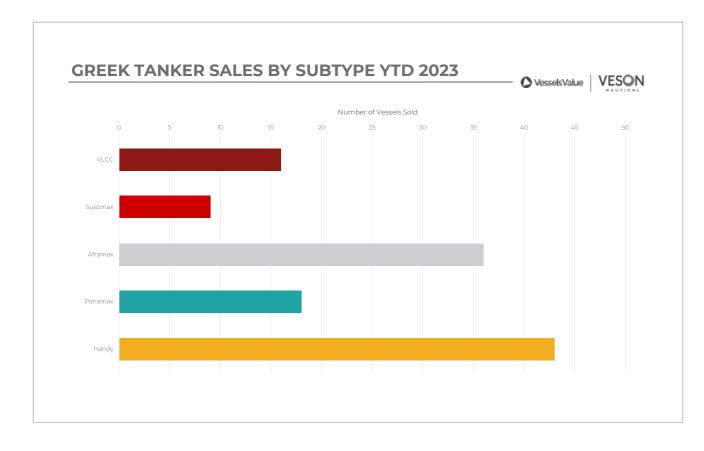


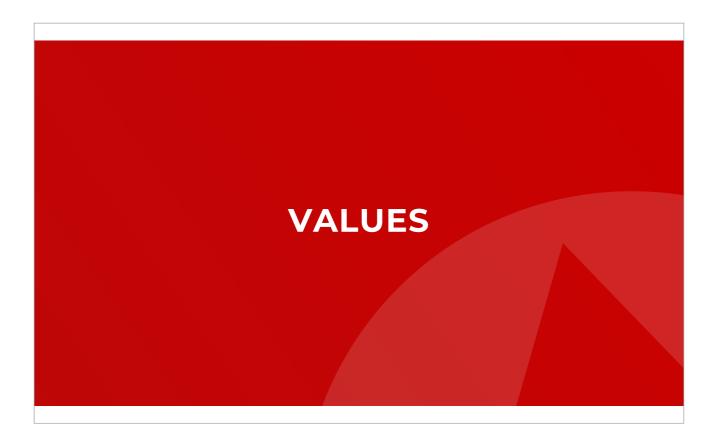


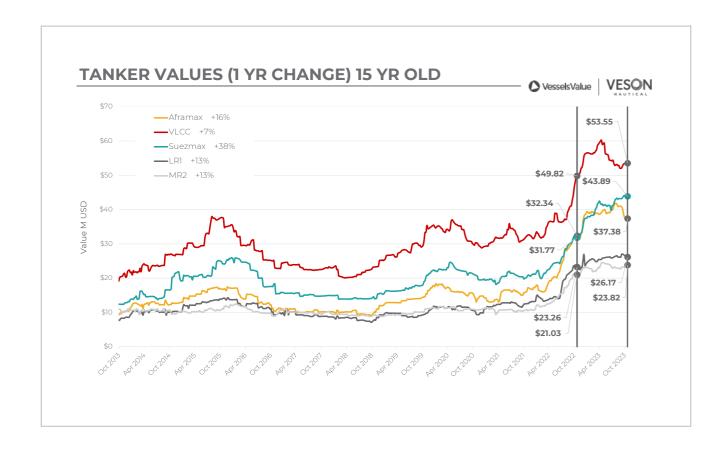


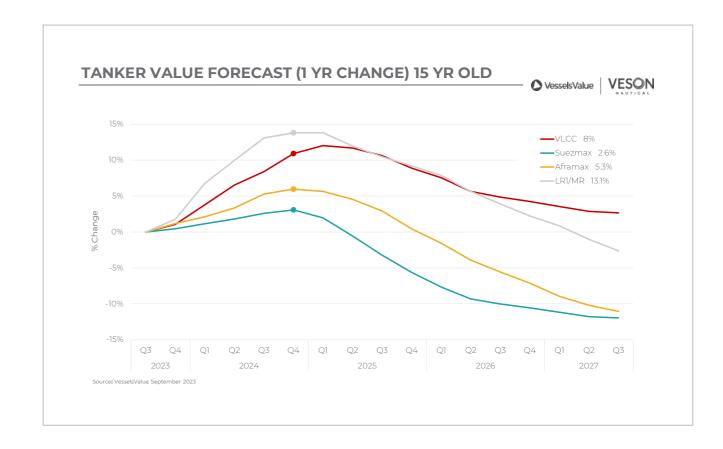












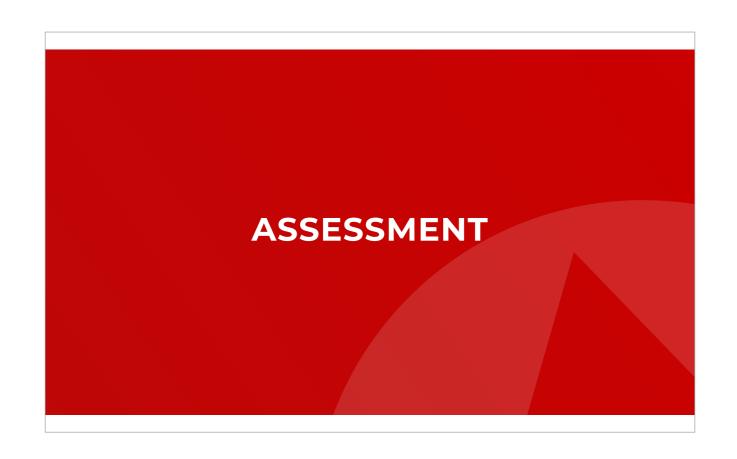


TANKER FUNDAMENTALS FORECAST

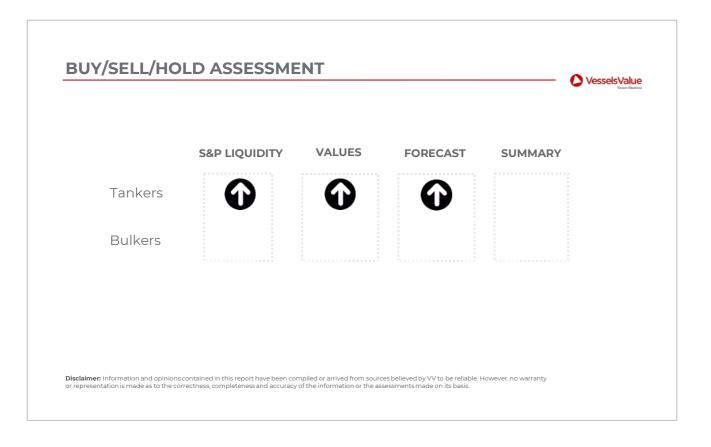
♦ Vessels Value
VESON
NAVII SAL

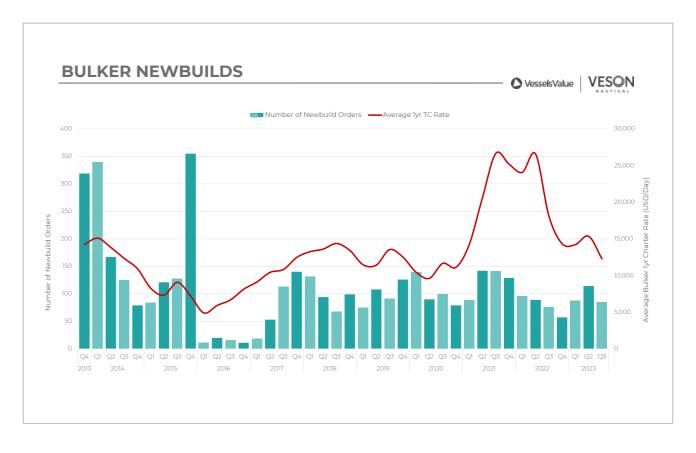
 Russian exports for both crude oil and products will decline but sourcing supplies to Europe from other suppliers such as MEG, US, Latin America, should increase tonne-mile demand and support Tanker rates going forward.

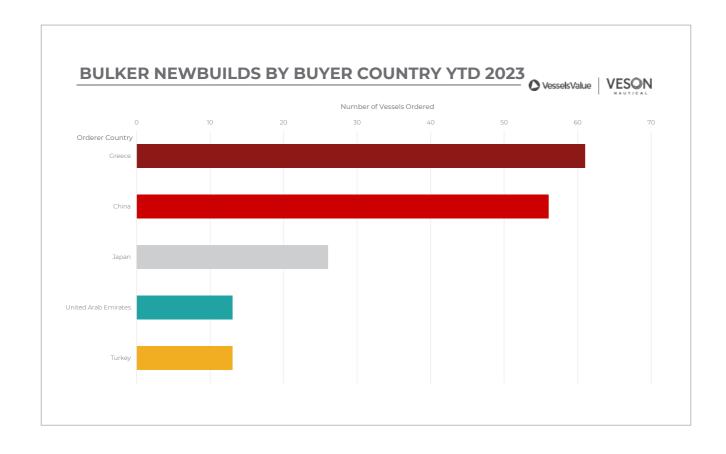
- Tanker newbuilding activity the orderbook remains low at 5% of the total fleet, having increased slightly during Q3.
- The IMO's greenhouse gas (GHG) emission targets that were enforced in 2023 should have an impact on fleet efficiency, boosting prospects from 2023/2024 onwards.
- Tonne-mile demand expectations for 2023 and beyond remain strong in our current base case, assuming that oil demand is not severely impacted by high oil prices and inflation in the Western economies.

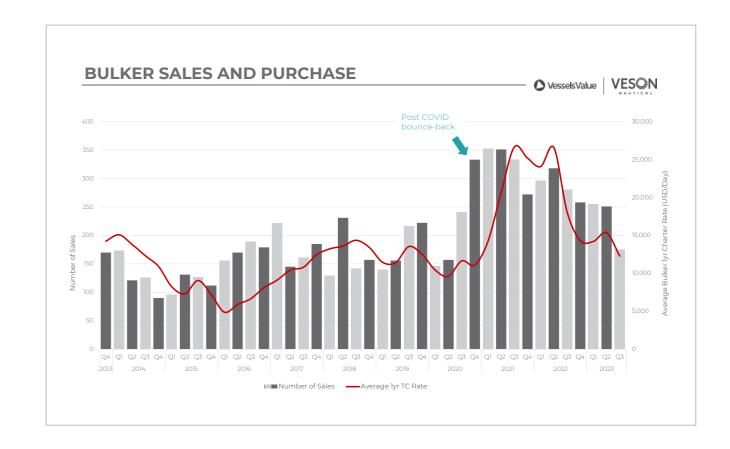


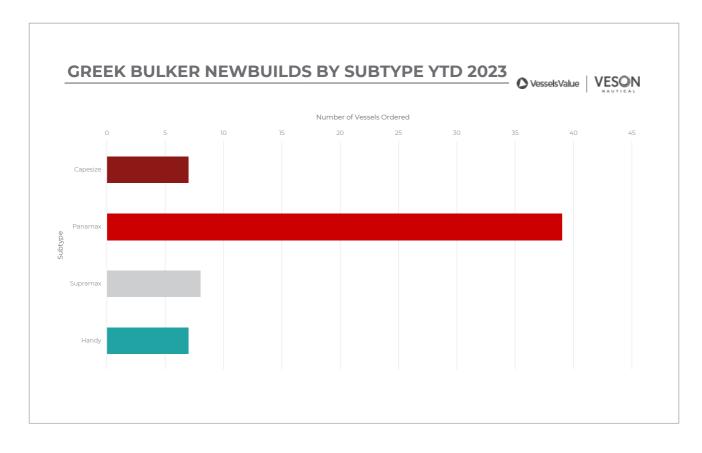


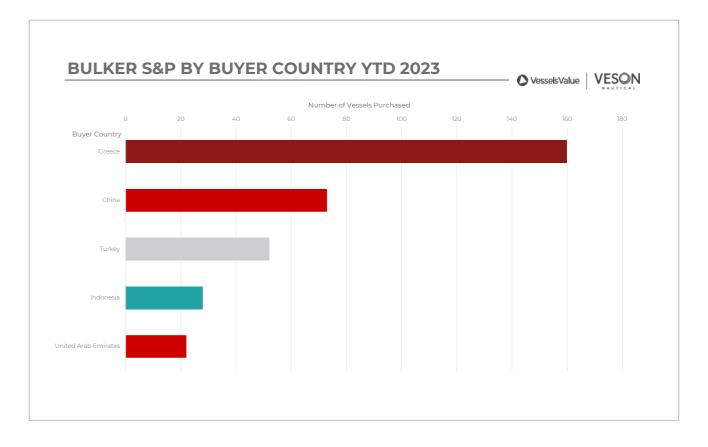


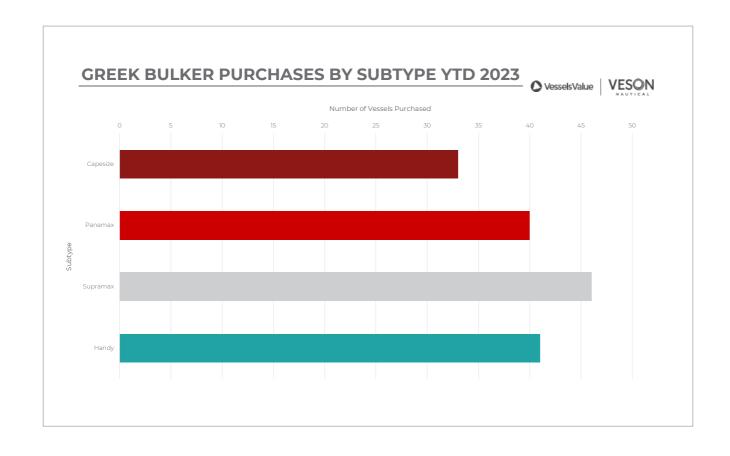


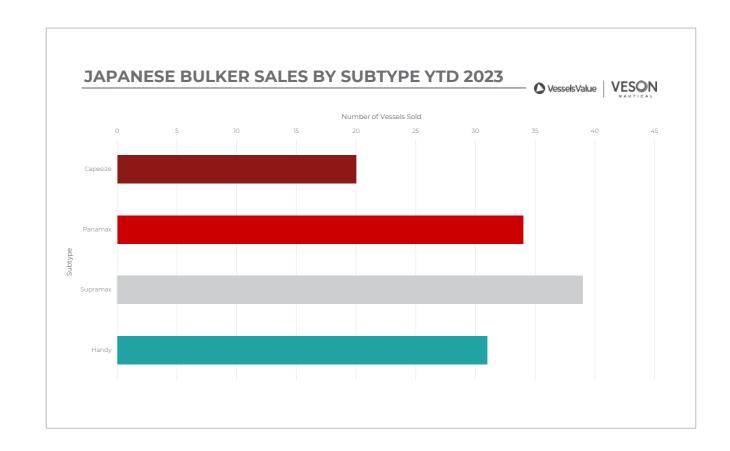


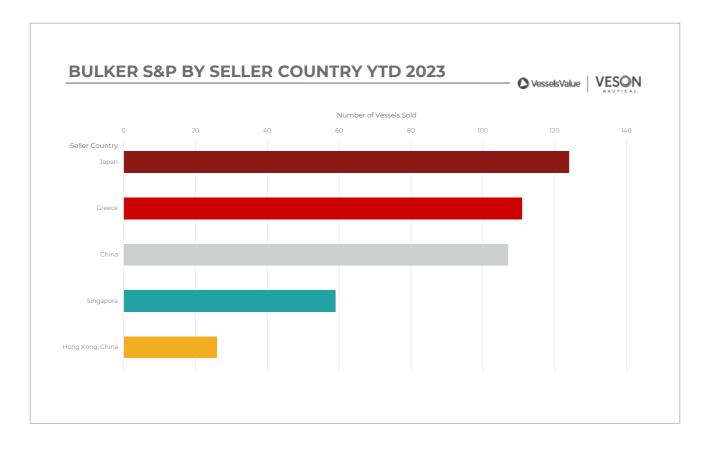


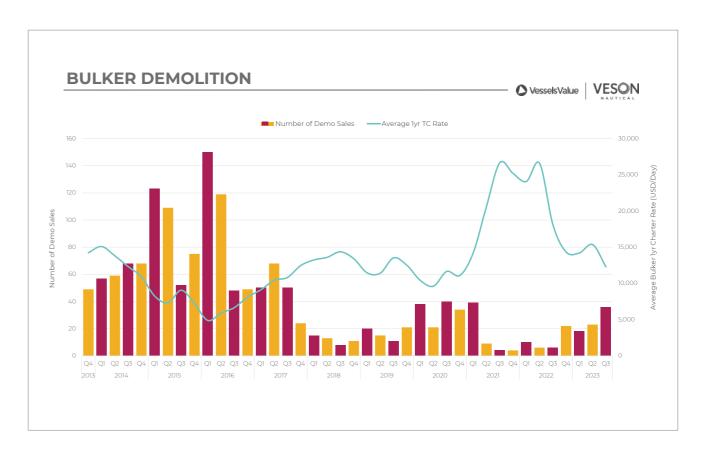






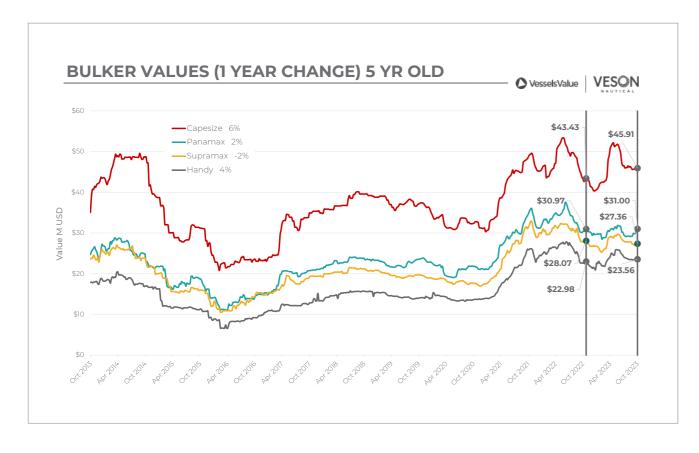


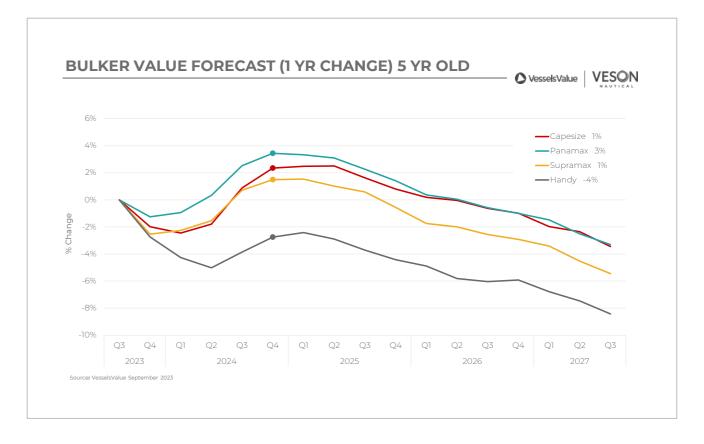








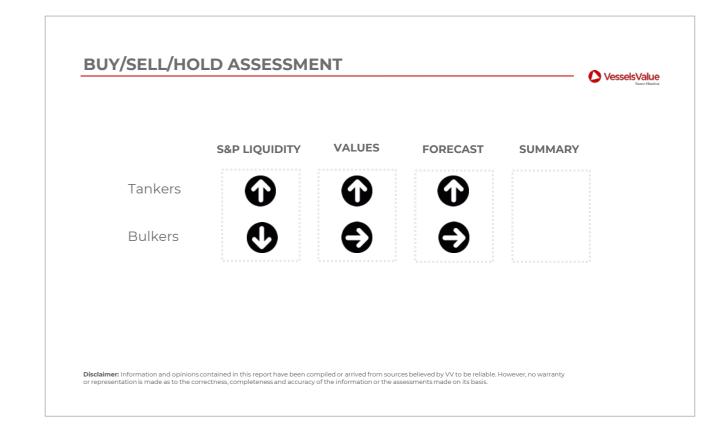


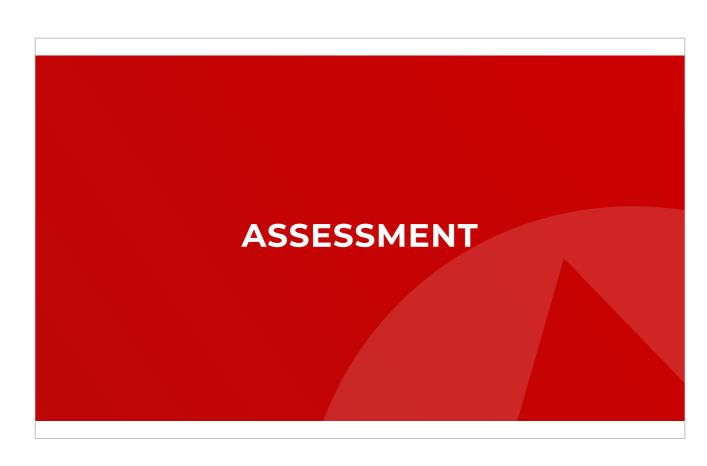


BULKER FUNDAMENTALS FORECAST

VesselsValue VESON

- Overall positive outlook for Bulkers. Fleet growth is expected to be outpaced by demand which will tighten the market balance.
- India is a country in a period of rapid growth with an expected average GDP growth of 6.5% per year during 2023-2026, and it will be a key driver for growth in seaborne trade.
- Indonesia's bauxite export ban led to China increasing imports from Guinea, increasing tonne mile demand.
- Although high inflation and interest rates in the West have hampered economic growth in the short term. Looking further ahead, a recovery in western economies and investment into green energy infrastructure could be positive for Bulker demand.
- Uncertainty about the future of fuels and high newbuilding prices have made owners reluctant to order new vessels, which has led to a low order book to fleet ratio of 8%, keeping Bulker supply low.







2023 KOBC केन्ने अपने प्रवाहित स्वाहित स्वाहि