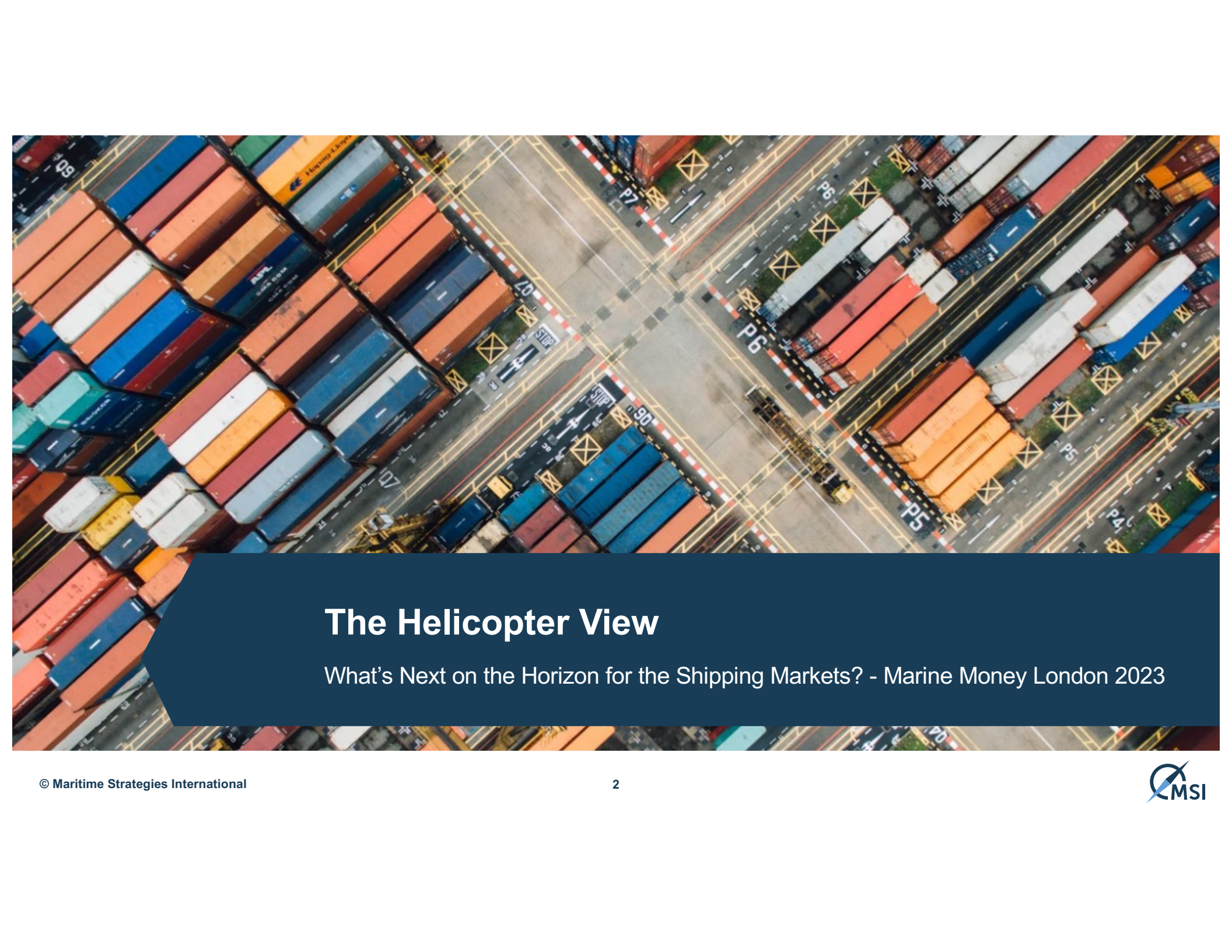


What's Next on the Horizon for the Shipping Markets - Storm Clouds or a Pot of Gold?

14th Annual Marine Money London – 26th January 2023

Dr Adam Kent - MSI





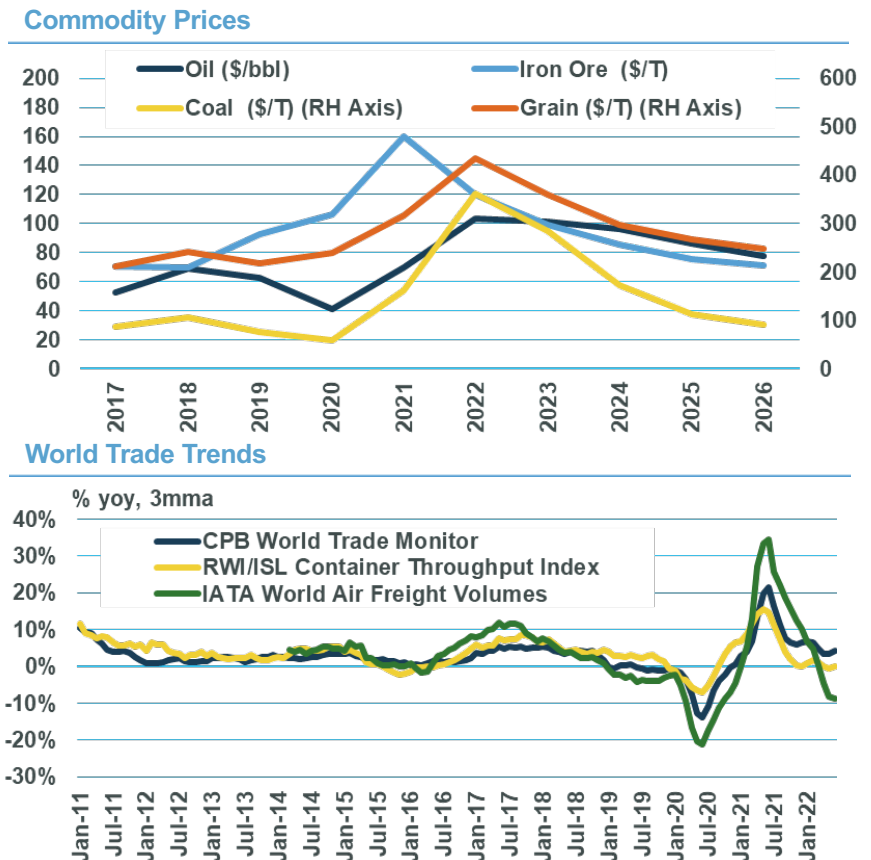
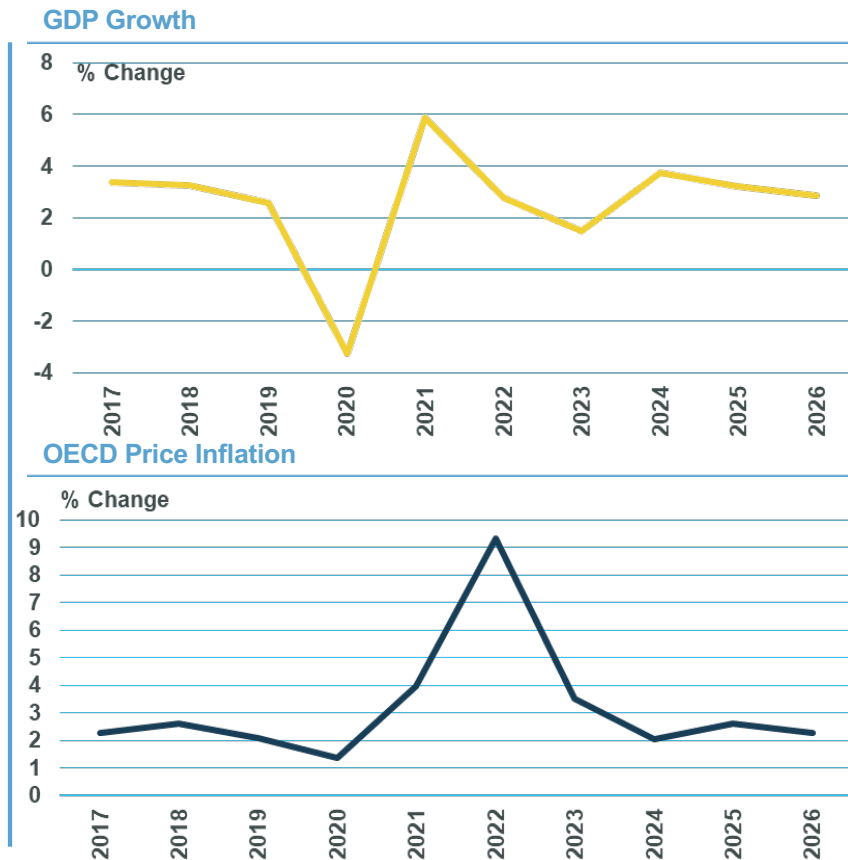
The Helicopter View

What's Next on the Horizon for the Shipping Markets? - Marine Money London 2023

Macro Picture

“Sawtooth” profile with some strong headwinds

- [Helicopter View](#)
- China Changes
- Trade Maps
- Supply
- 2ndhand Values



Cargo Growth

Dry sectors have been struggling

- [Helicopter View](#)
- [China Changes](#)
- [Trade Maps](#)
- [Supply](#)
- [2ndhand Values](#)



LPG Carrier



LNG Carrier



PCTC



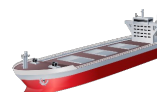
Crude Tanker



Prod Tanker



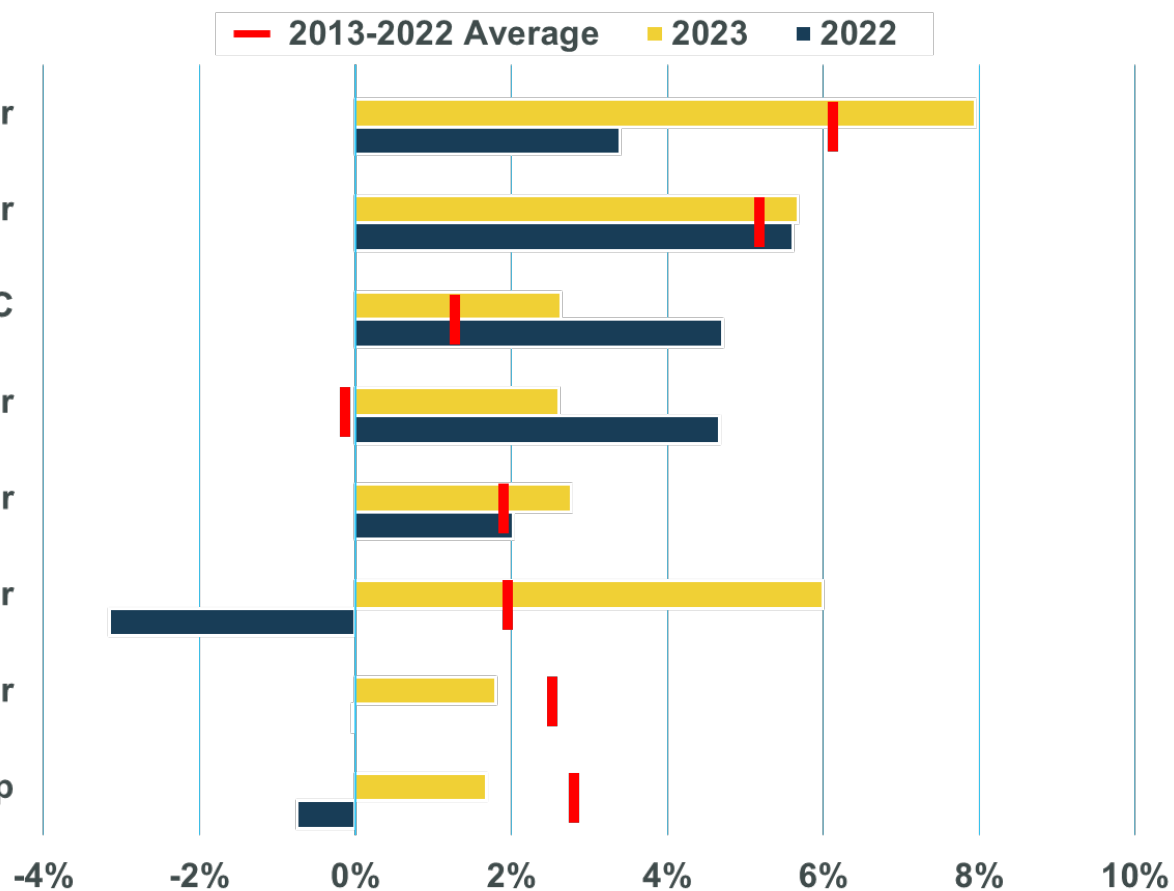
Chemical Tanker



Bulk Carrier



Containership

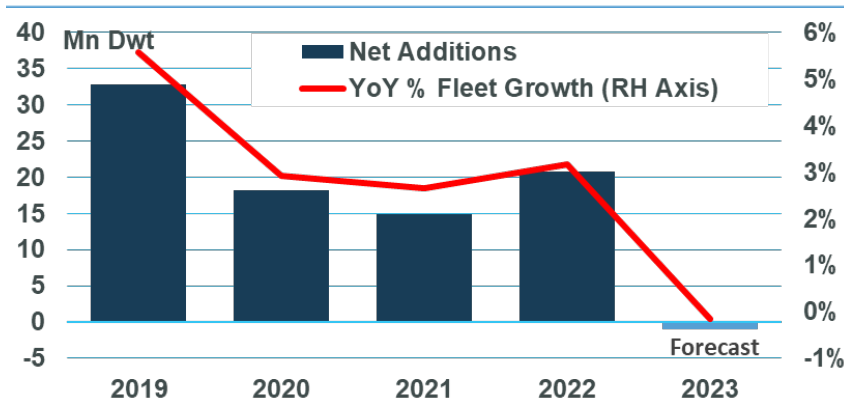


Fleet Growth

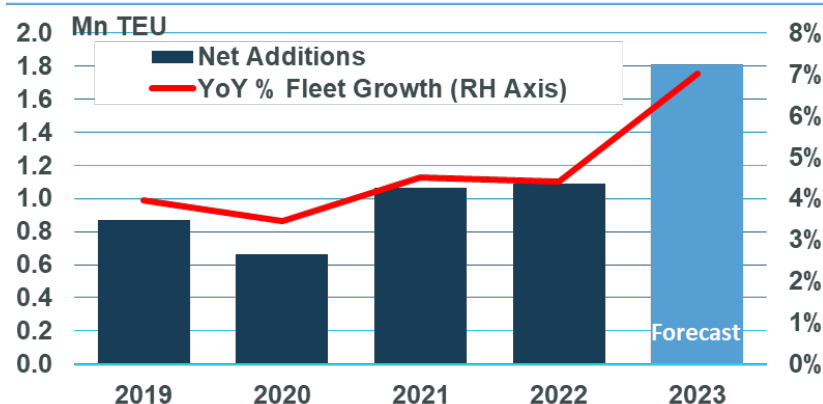
In most cases it's been manageable

- [Helicopter View](#)
- [China Changes](#)
- [Trade Maps](#)
- [Supply](#)
- [2ndhand Values](#)

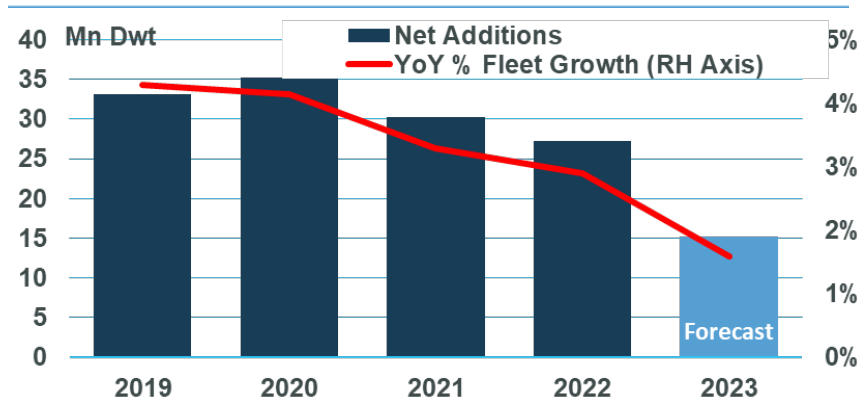
Tankers



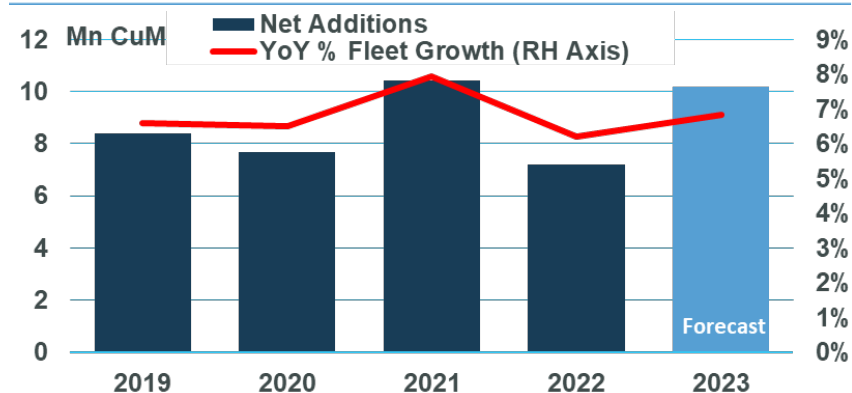
Containers



Bulkers



Gas Carriers

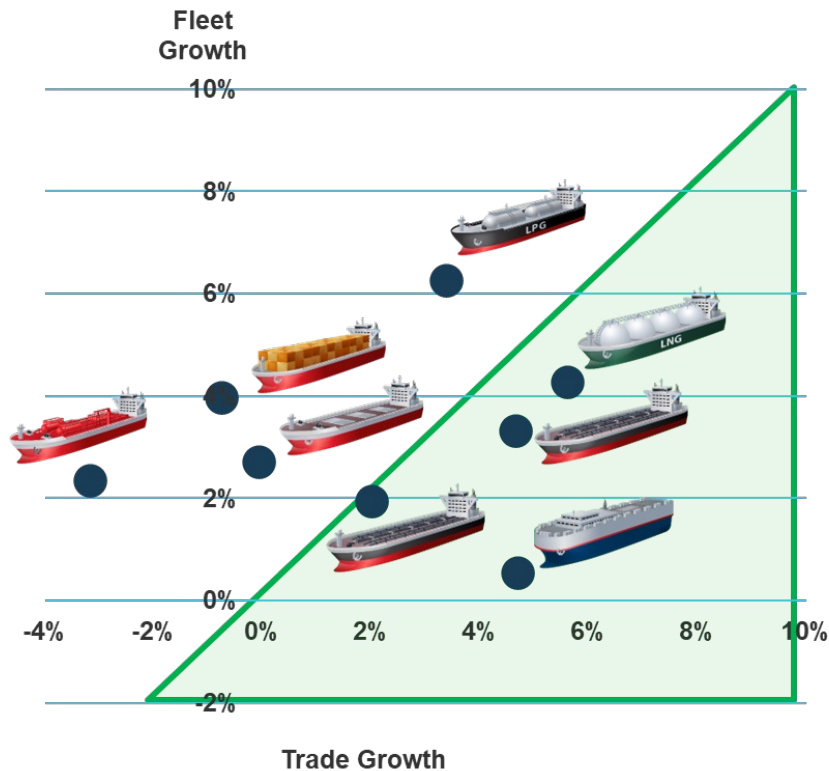


Market Balance

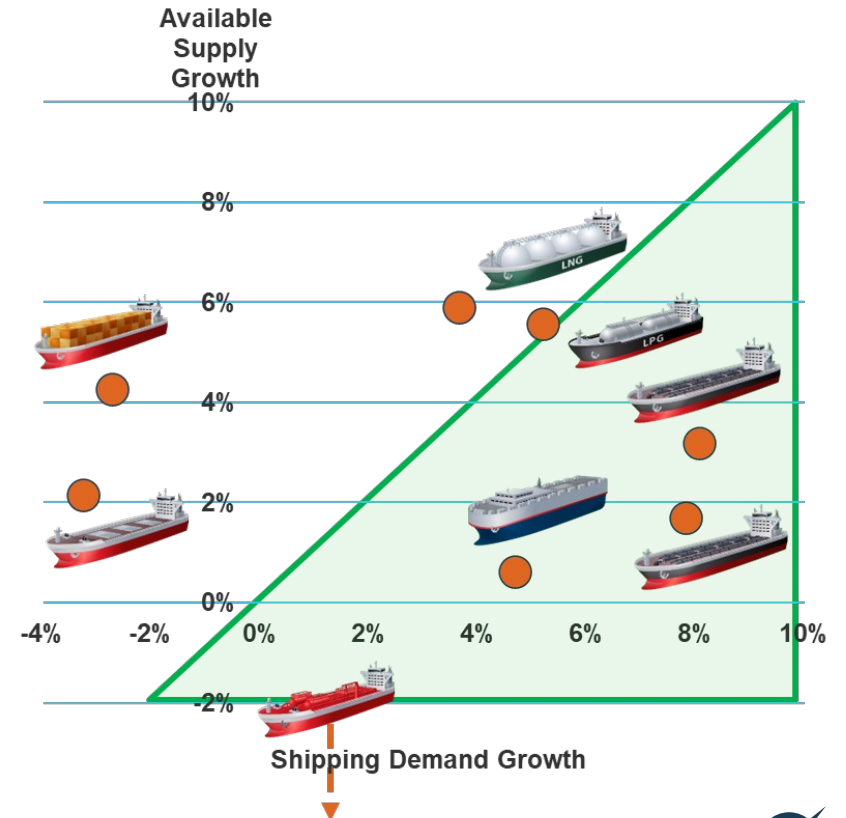
Shipping demand is key

- [Helicopter View](#)
- China Changes
- Trade Maps
- Supply
- 2ndhand Values

Fleet Growth versus Trade Growth



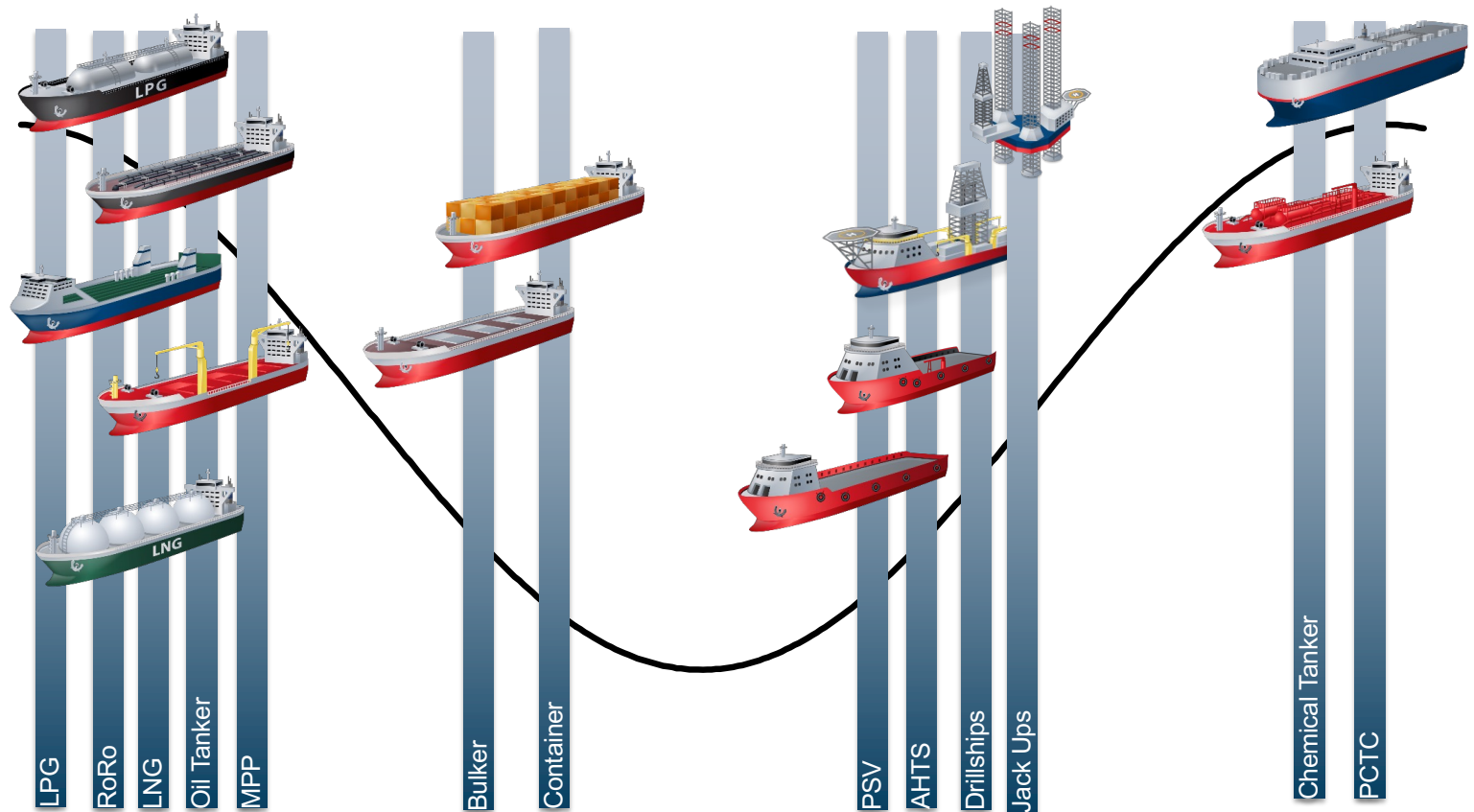
Fleet Growth versus Shipping Demand Growth



Current Earnings

Where are we on the cycle?

- [Helicopter View](#)
- China Changes
- Trade Maps
- Supply
- 2ndhand Values



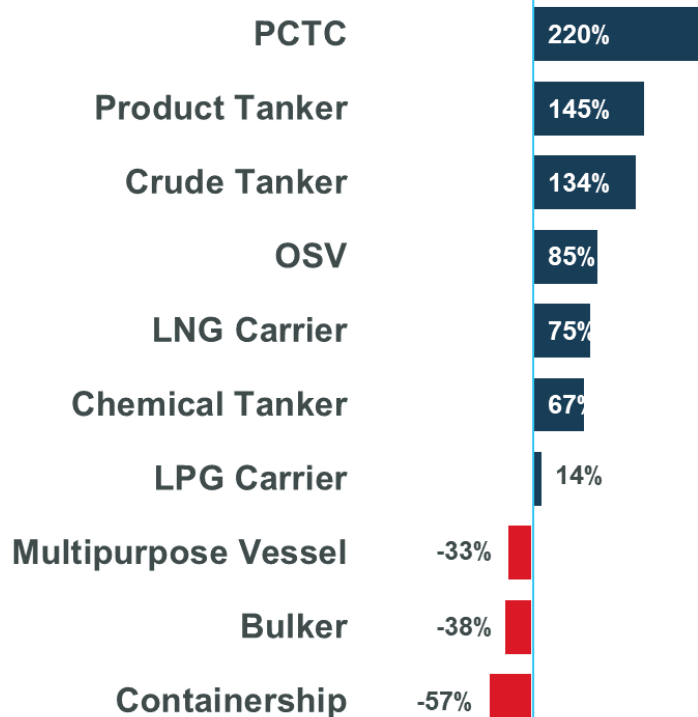
Note: Schematic for illustrative purposes only!

Earnings and Prices – Start 2022 v Today

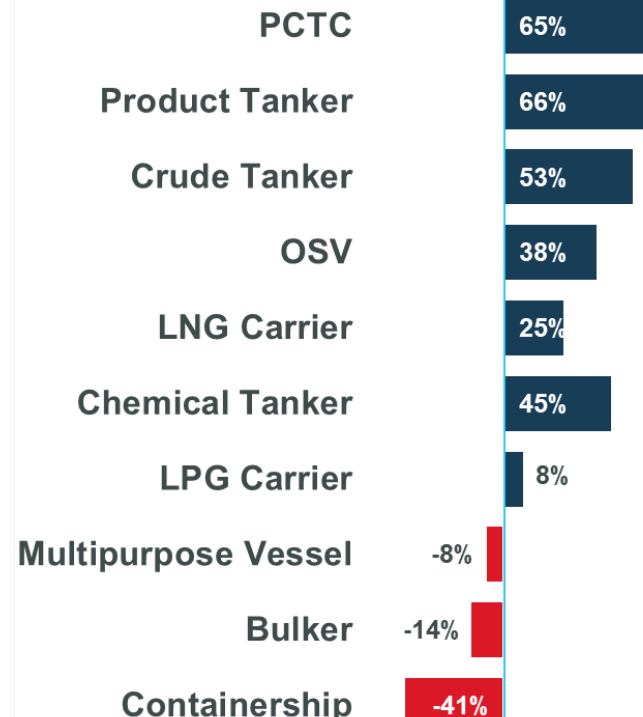
Average % Change

- [Helicopter View](#)
- China Changes
- Trade Maps
- Supply
- 2ndhand Values

Changes in Earnings - 1 Yr T/C Rates



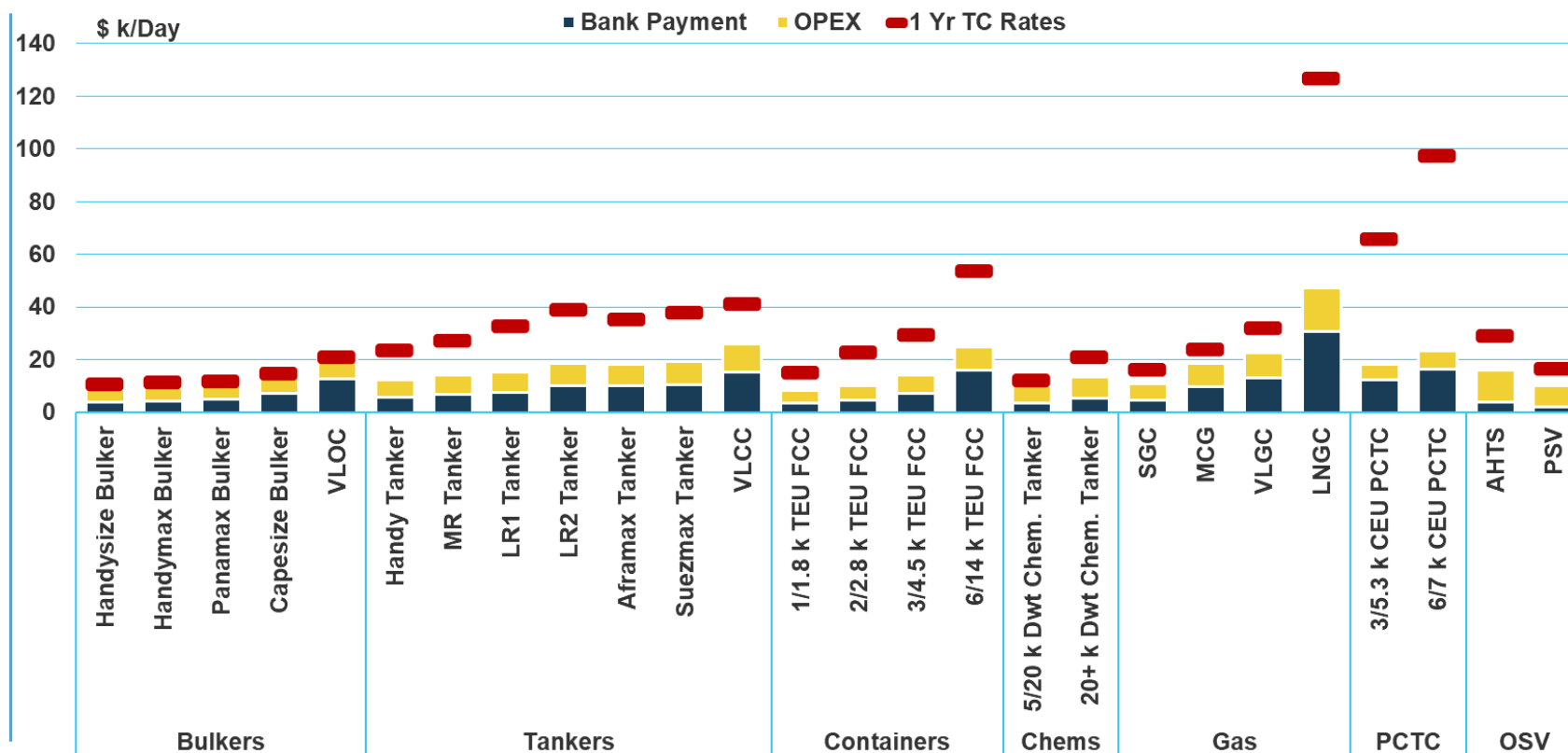
Changes in 10 Yr Old Prices



Breakeven Levels

Earnings at OK levels at todays prices

- [Helicopter View](#)
- [China Changes](#)
- [Trade Maps](#)
- [Supply](#)
- [2ndhand Values](#)





Chinese Demand – A Change in Pace

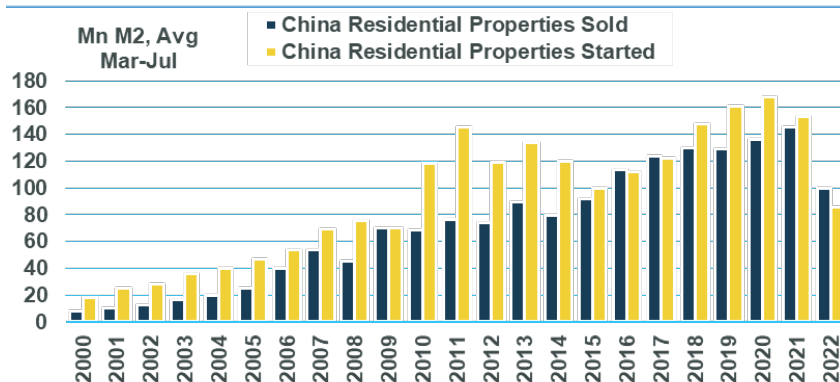
What's Next on the Horizon for the Shipping Markets? - Marine Money London 2023

Chinese Demand Story Isn't What it Once Was

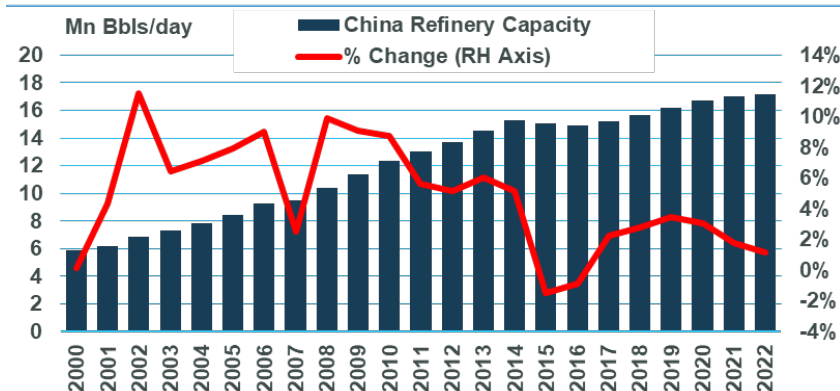
Continues to cool

- Helicopter View
- [China Changes](#)
- Trade Maps
- Supply
- 2ndhand Values

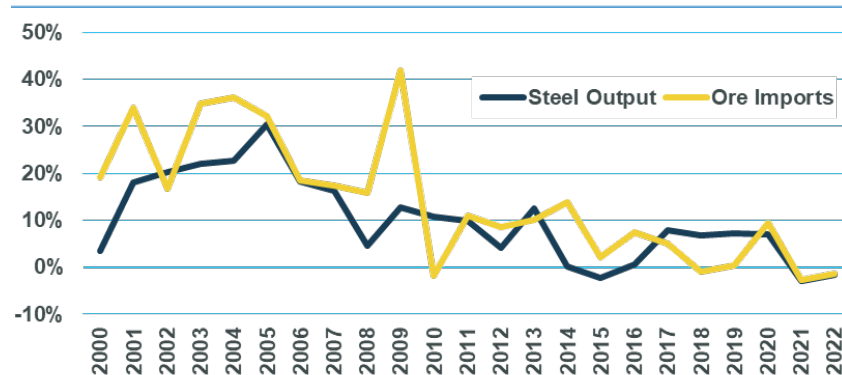
Chinese Property Market



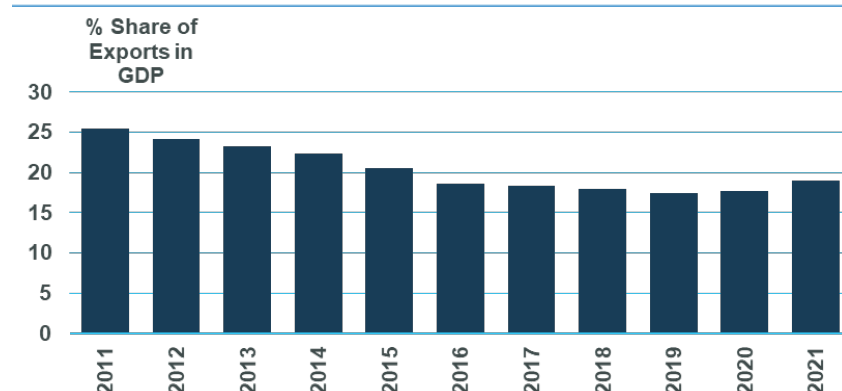
Chinese Oil Refinery Capacity



Chinese Steel Output and Iron Ore Imports



Chinese Exports as Share of GDP

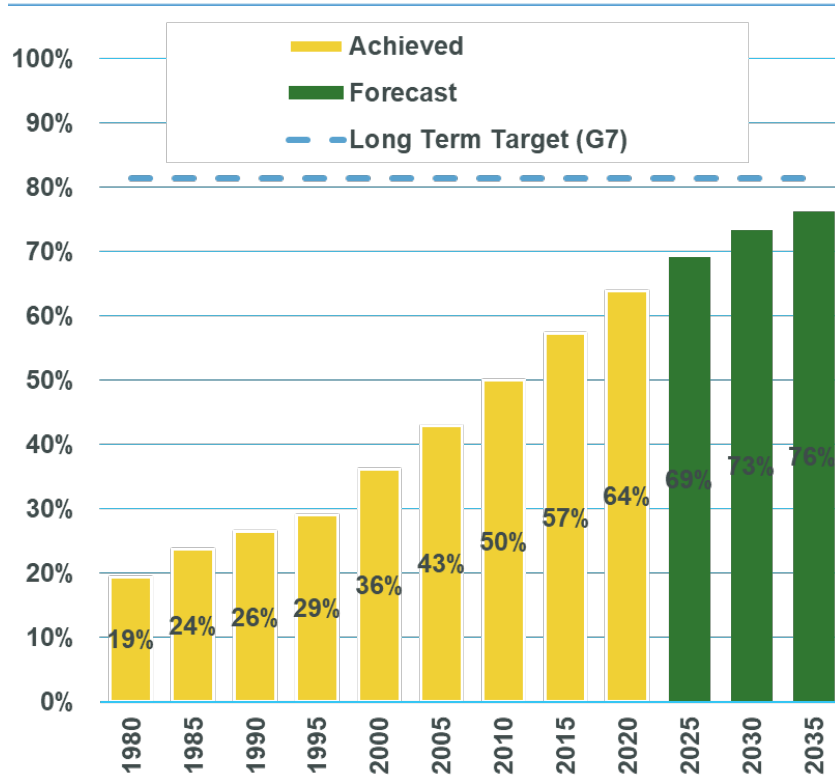


Chinese Longer Term Concerns for Dry Bulk

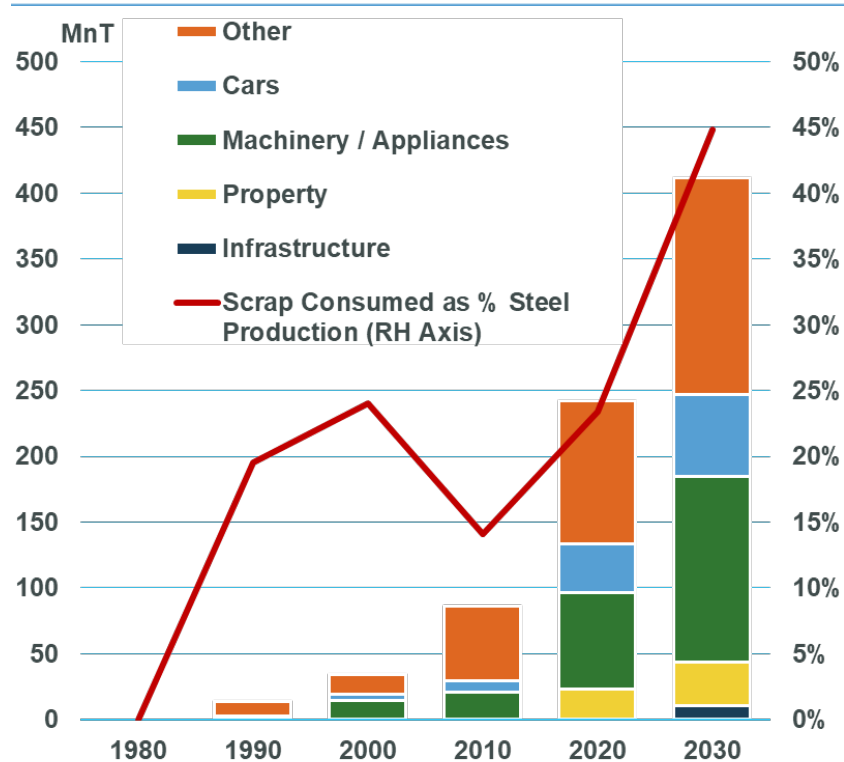
Structural changes afoot

- Helicopter View
- [China Changes](#)
- Trade Maps
- Supply
- 2ndhand Values

Slowing Rate of Urbanisation in China



MSI's Assessment for Steel Scrap Availability in China



A close-up photograph of a globe, specifically showing the Americas. The globe is partially obscured by a dark blue, semi-transparent overlay that contains white text. The background is dark with warm, out-of-focus light sources, creating a bokeh effect.

Changing Trade Map – Demand Shifts

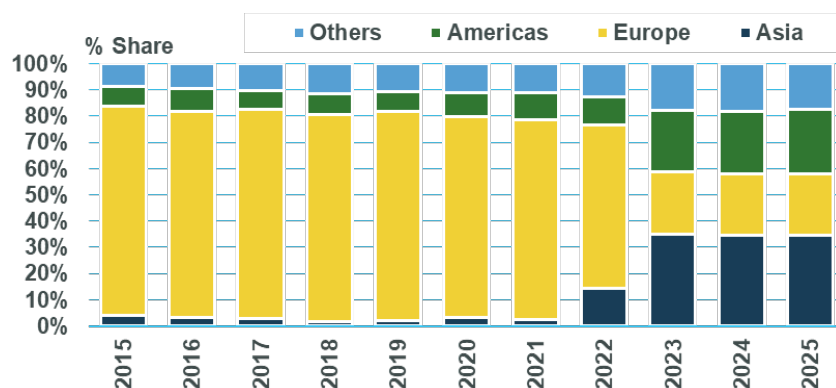
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Oil Trade

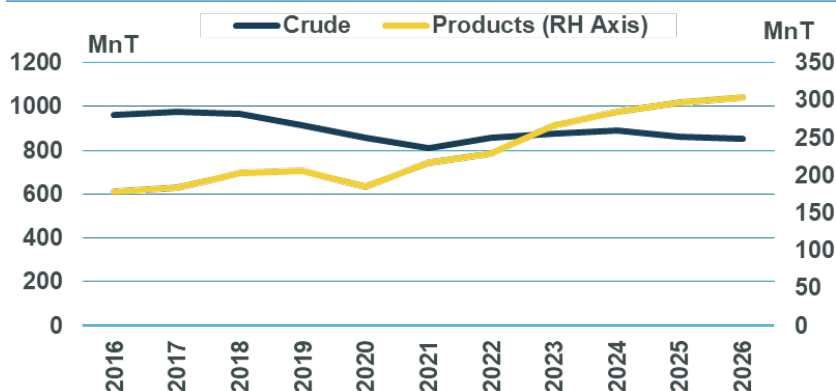
Where most of the shuffling is happening

- Helicopter View
- China Changes
- [Trade Maps](#)
- Supply
- 2ndhand Values

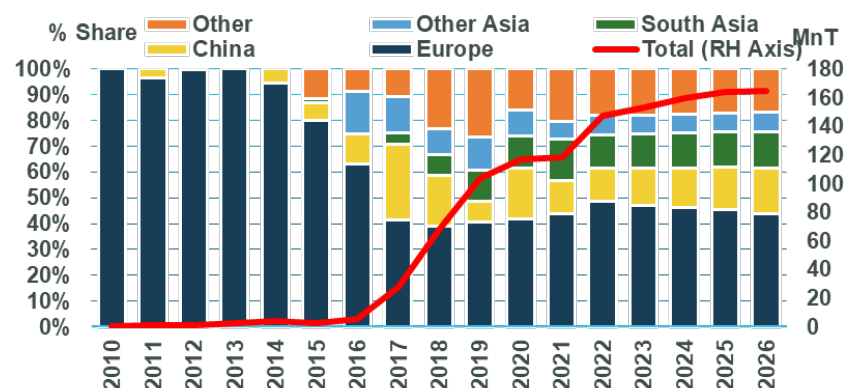
Black Sea/Baltic Crude/Product Exports by Destination



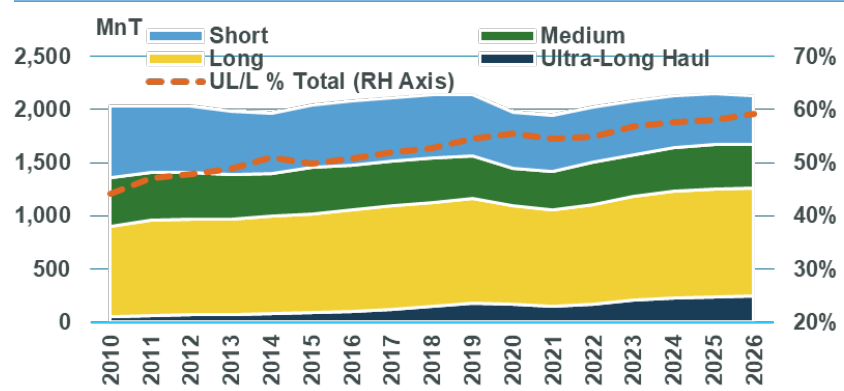
Middle East Exports



US Crude Exports by Import Destination



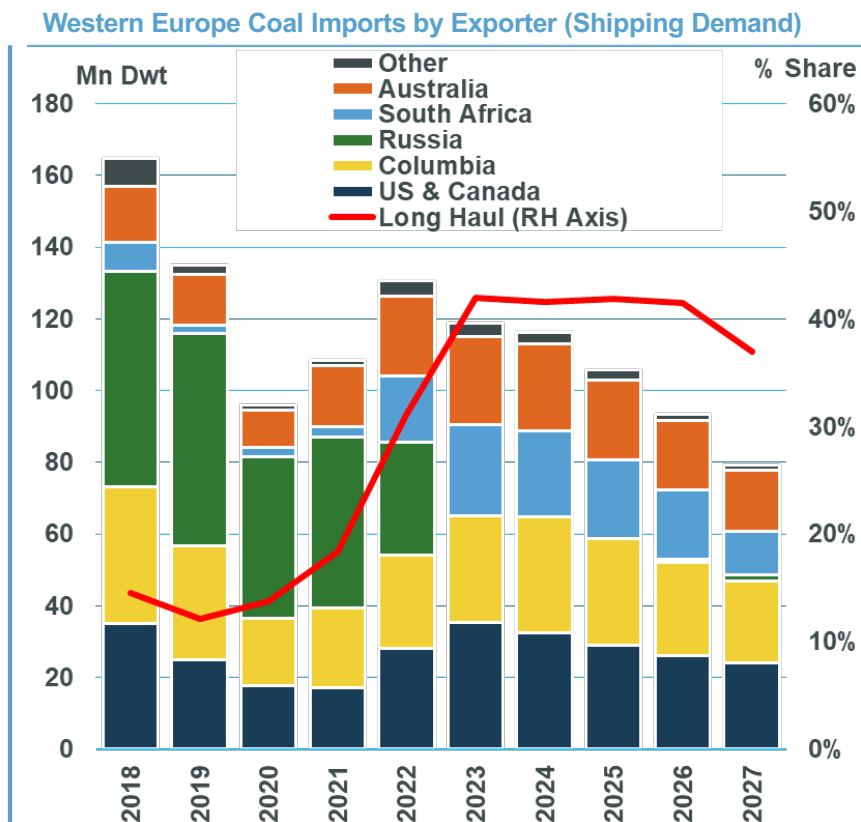
Seaborne Crude Flows by Route Type



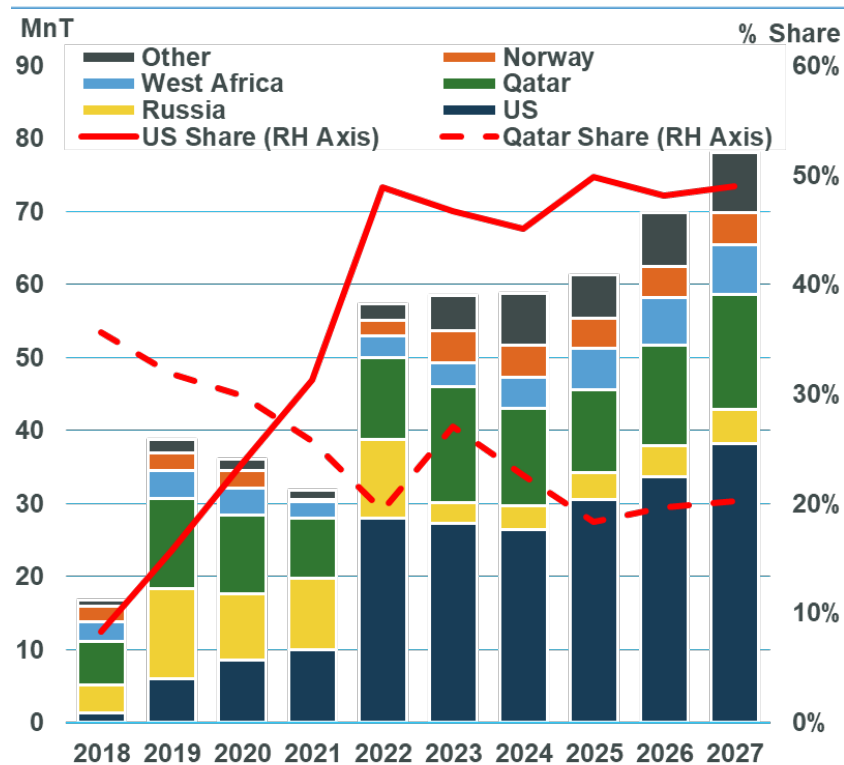
Tonne-mile shifts

Developing picture

- Helicopter View
- China Changes
- [Trade Maps](#)
- Supply
- 2ndhand Values



Northern Europe LNG Imports





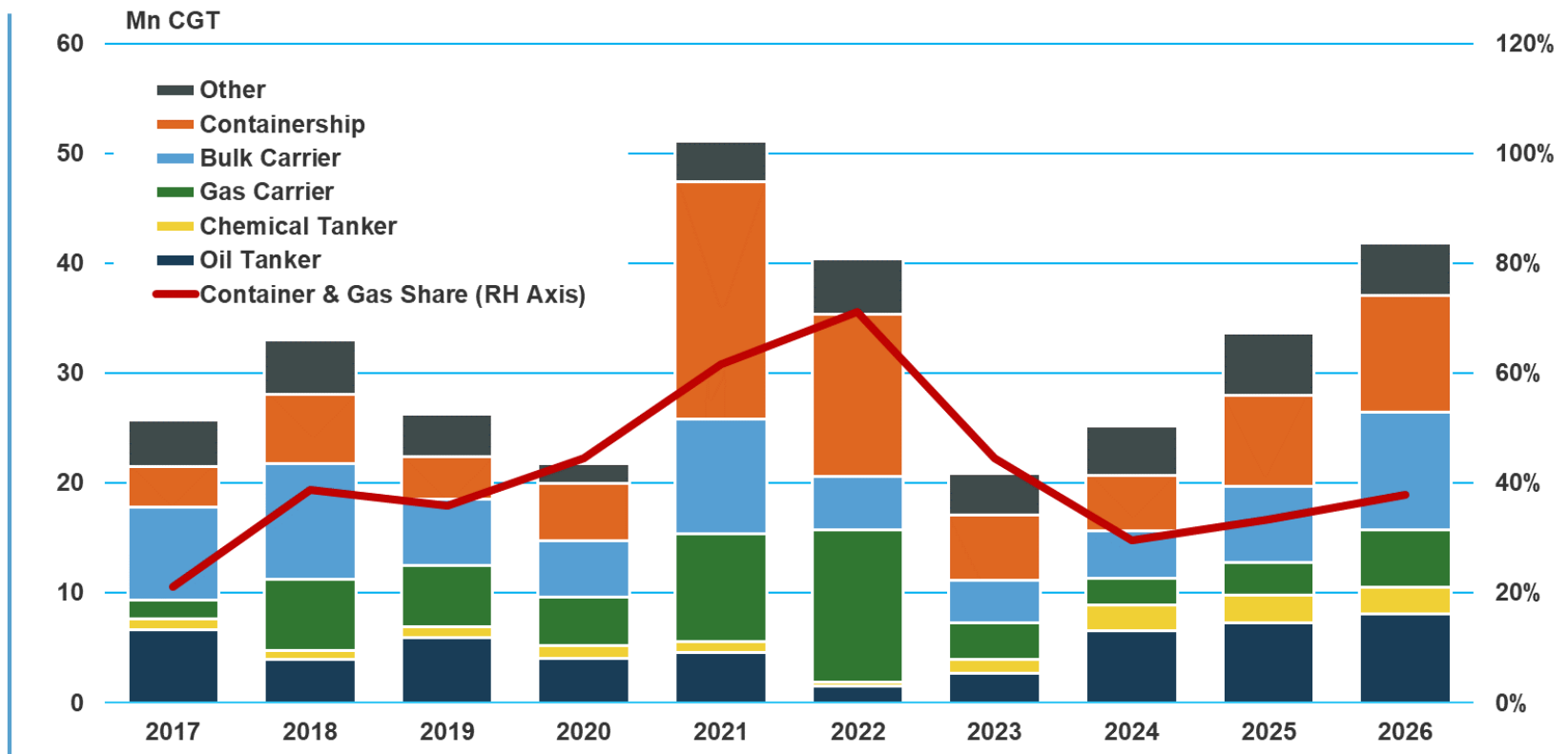
Supply Developments

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Contracting Bifurcation

Container and gas carriers have dominated

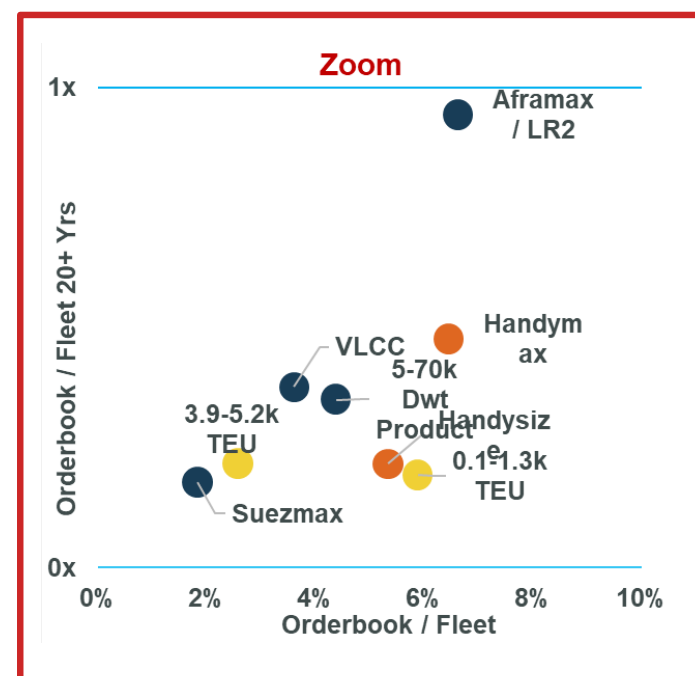
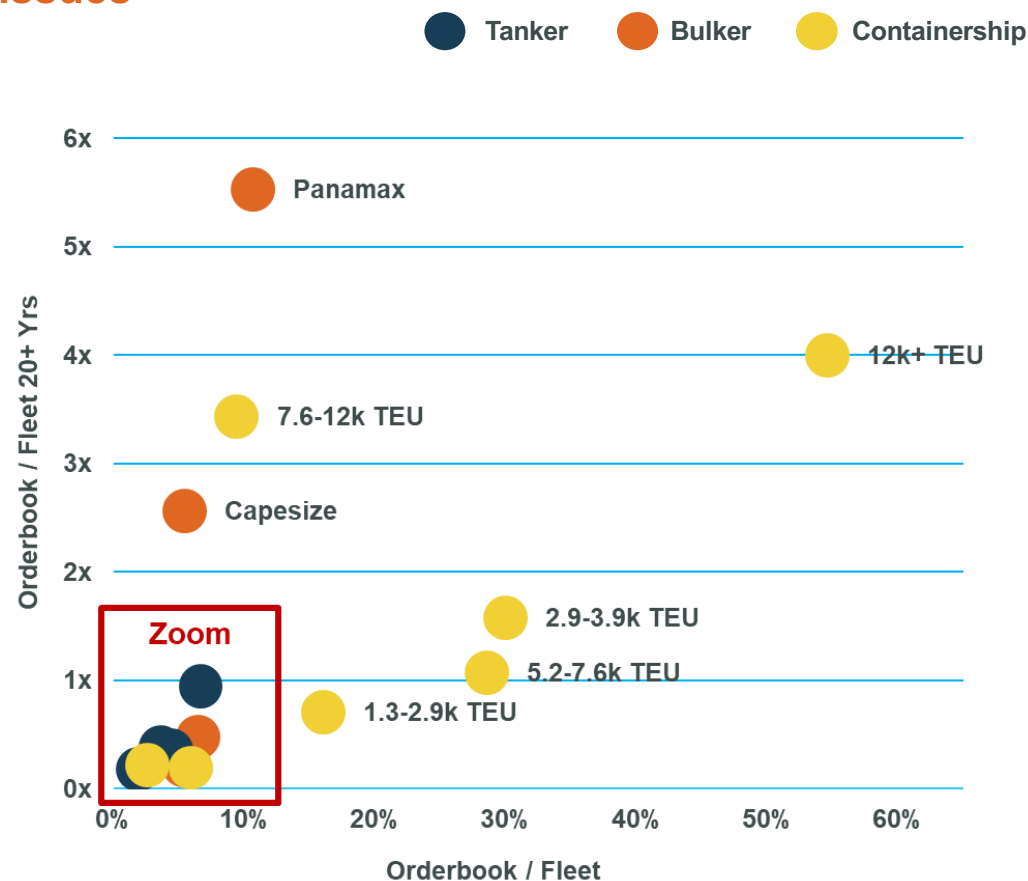
- Helicopter View
- China Changes
- Trade Maps
- Supply
- 2ndhand Values



Orderbook as % of Fleet

Contained issues

- Helicopter View
- China Changes
- Trade Maps
- Supply
- 2ndhand Values

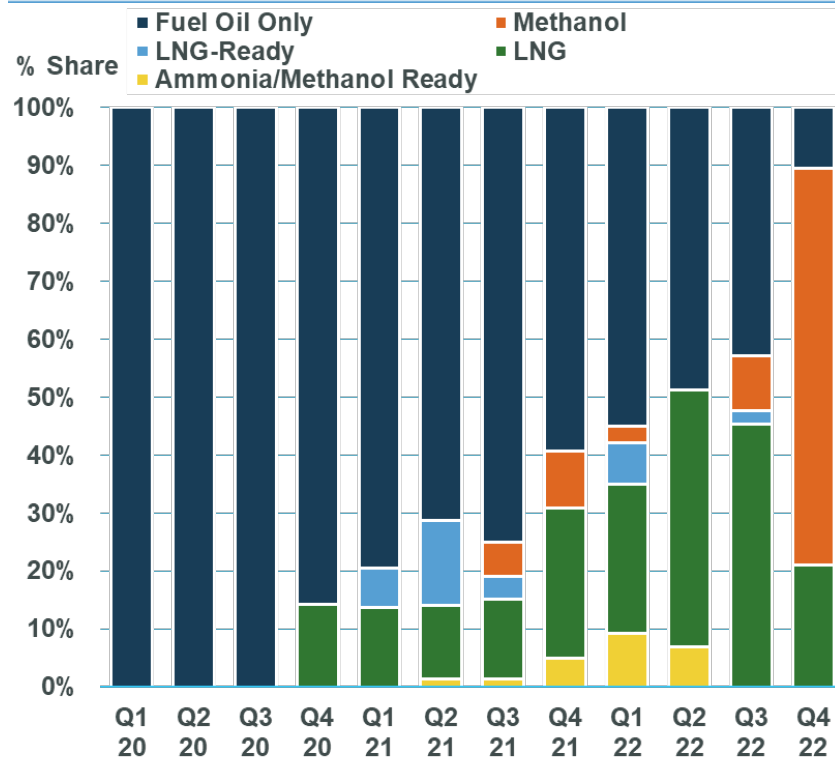


Alternative Fuels

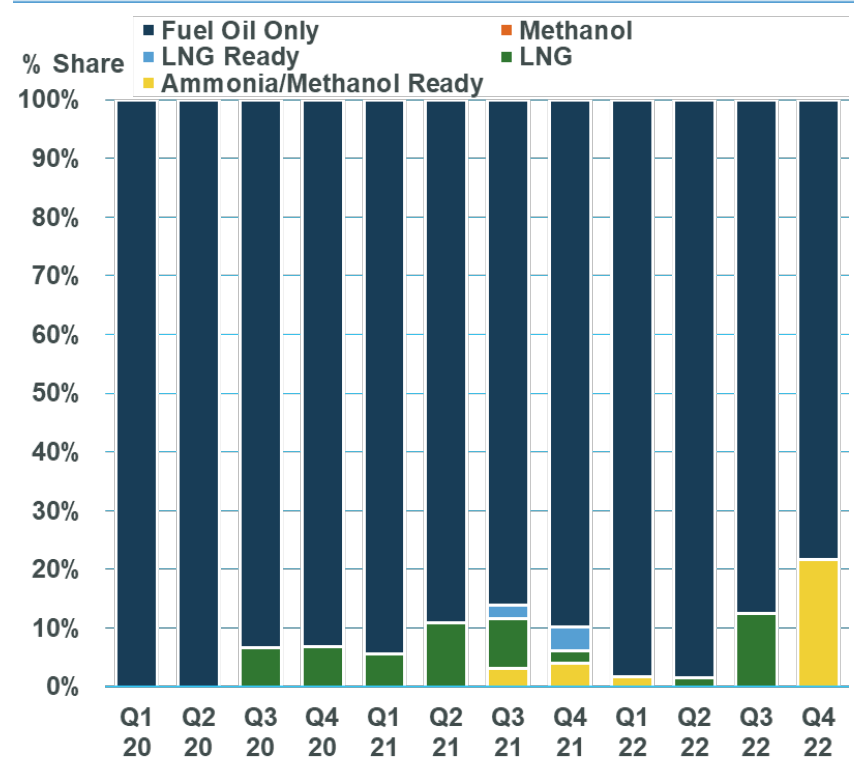
Containers are leading the way

- [Helicopter View](#)
- [China Changes](#)
- [Trade Maps](#)
- [Supply](#)
- [2ndhand Values](#)

Contracting of Containerships by Fuel System Type (# of vessels)



Contracting of Dry Bulk Ships by Fuel System Type (# of vessels)

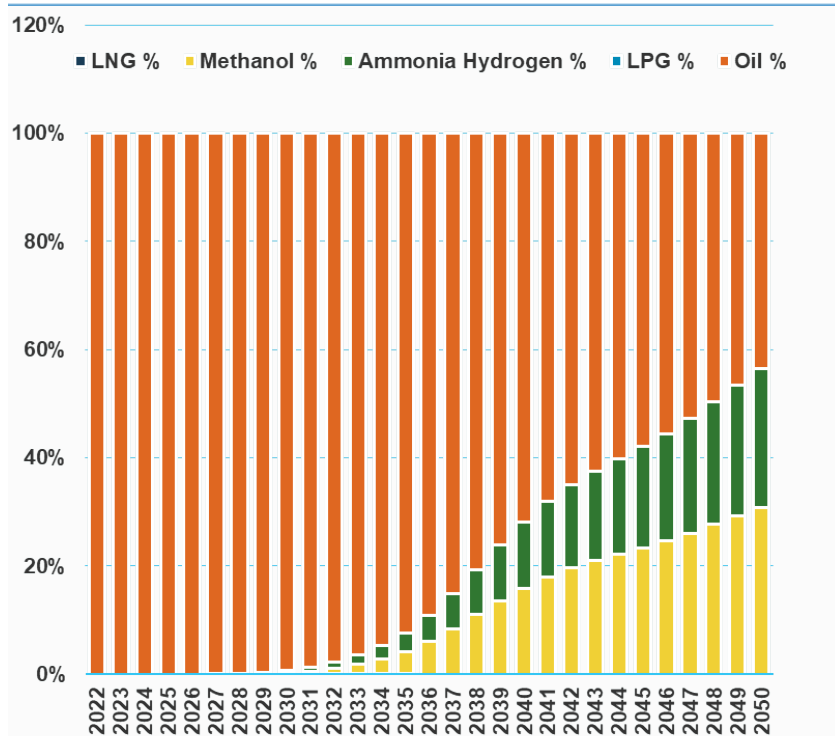


MSI Fuels/Bunker Model

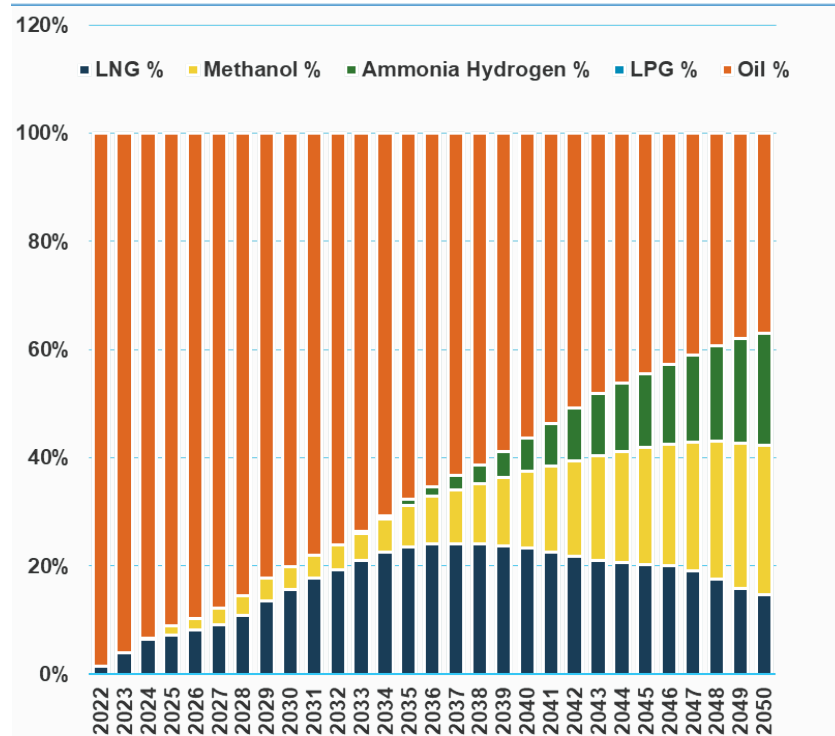
Assessments by type, size and contracting year, delivery year and fleet

- Helicopter View
- China Changes
- Trade Maps
- Supply
- 2ndhand Values

Fuel Type Share - 5 k Dwt to 40 k Dwt Bulker Fleet



Fuel Type Share – 12k + TEU Container Fleet

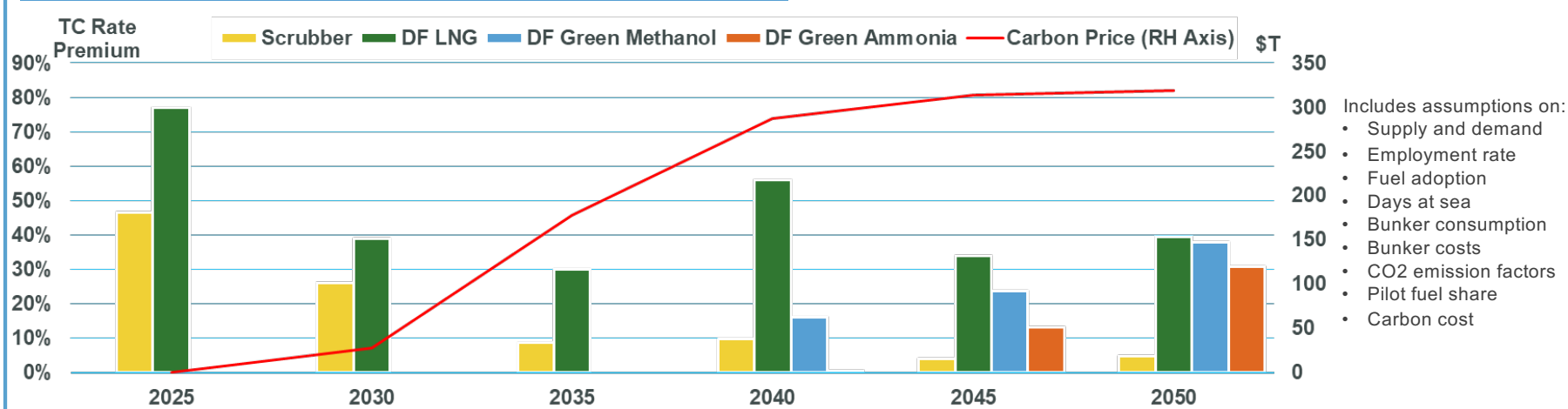


Alternative Fuel Adoption Model

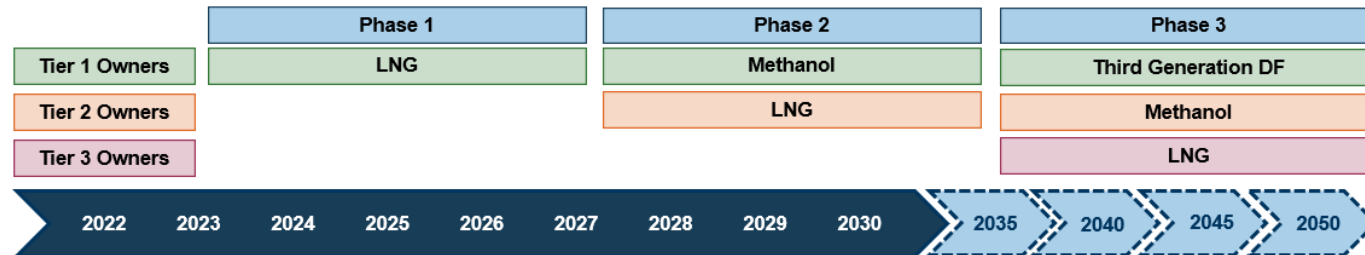
Zero carbon fuel prices prohibitive for a while

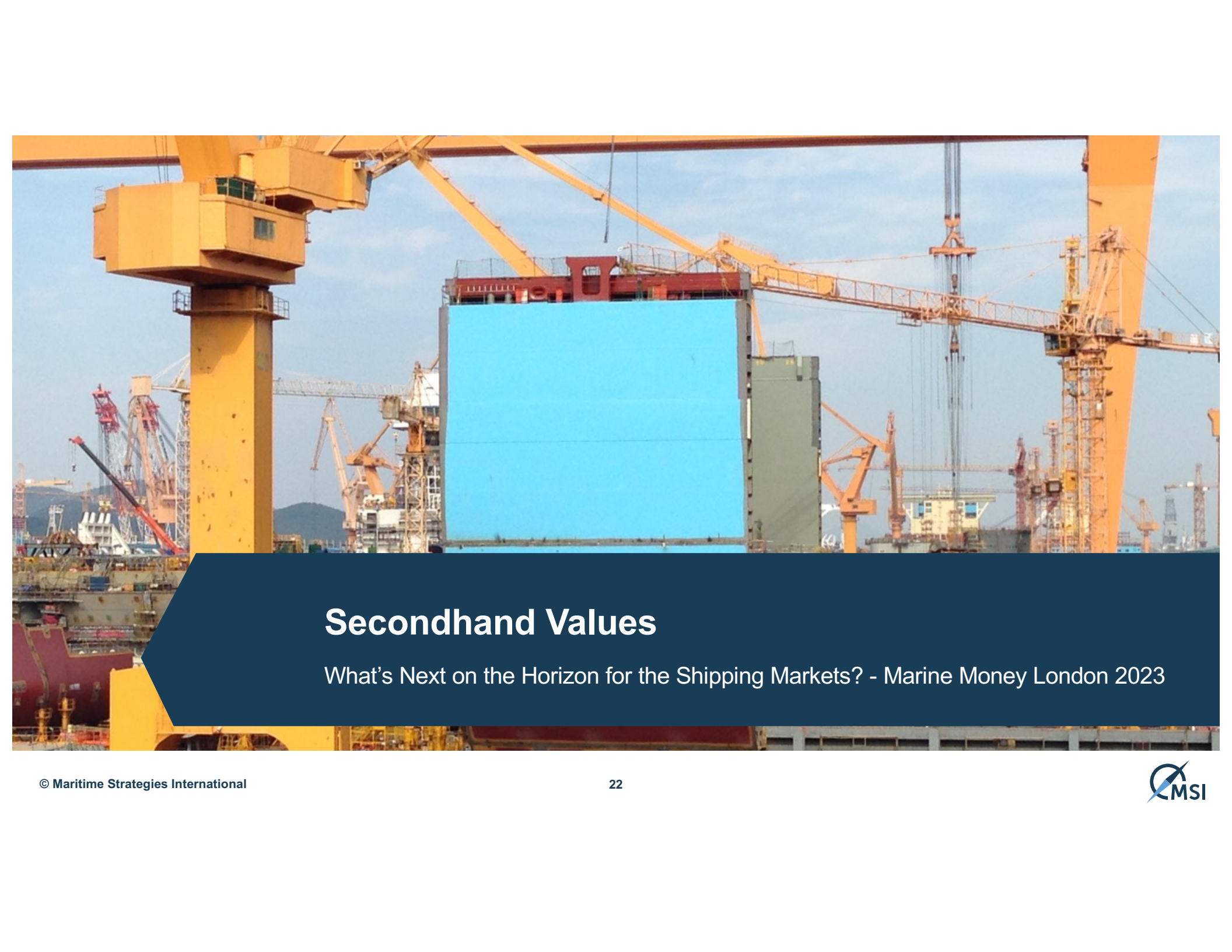
- Helicopter View
- China Changes
- Trade Maps
- [Supply](#)
- 2ndhand Values

Dry Bulk 1 Yr TC Rate Premium Versus Conventional Fuel Oil Engine



Fuel Adoption Timeline – Trickle Down Effect





Secondhand Values

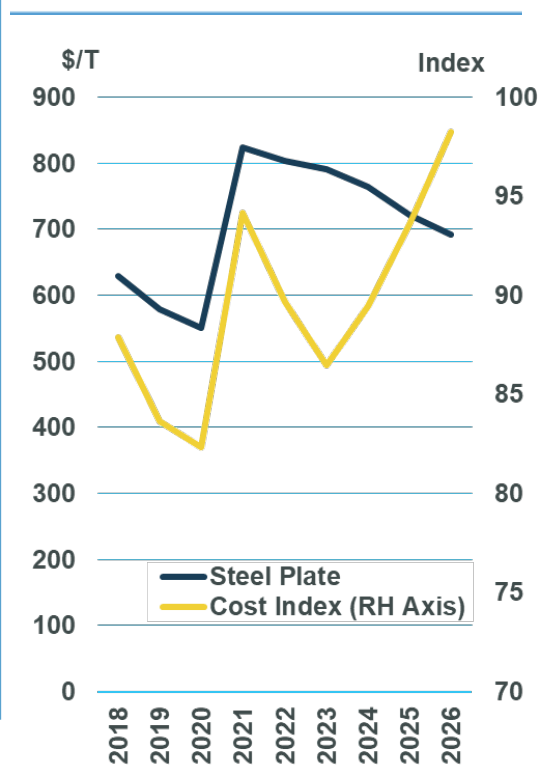
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Newbuilding Prices

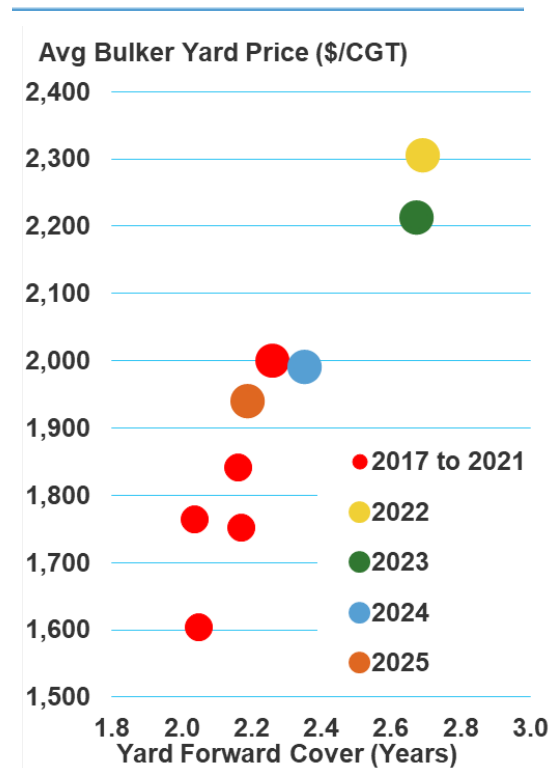
Downward pressure in the short to medium term

- Helicopter View
- China Changes
- Trade Maps
- Supply
- [2ndhand Values](#)

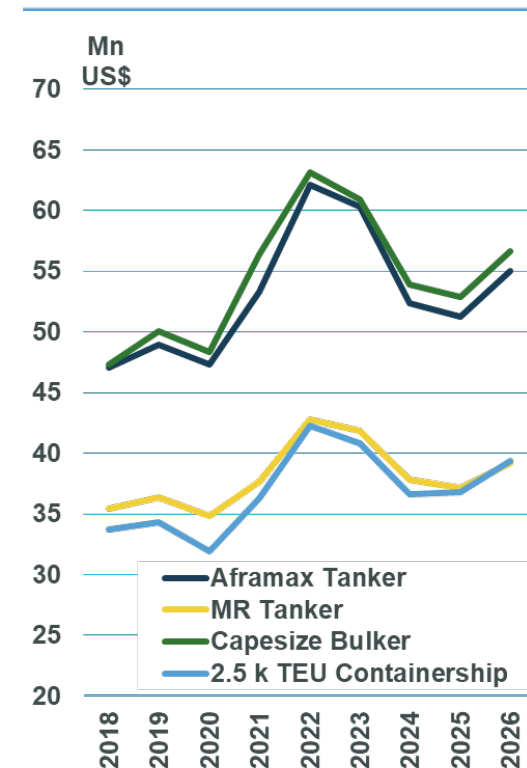
Costs



Forward Cover



Newbuilding Price

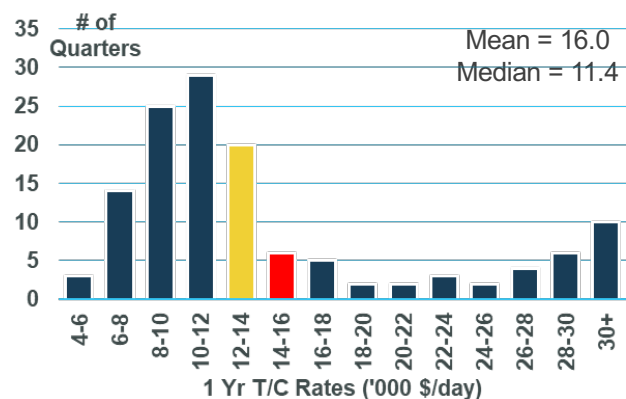


Earnings Outlook 1 Yr T/C Rate

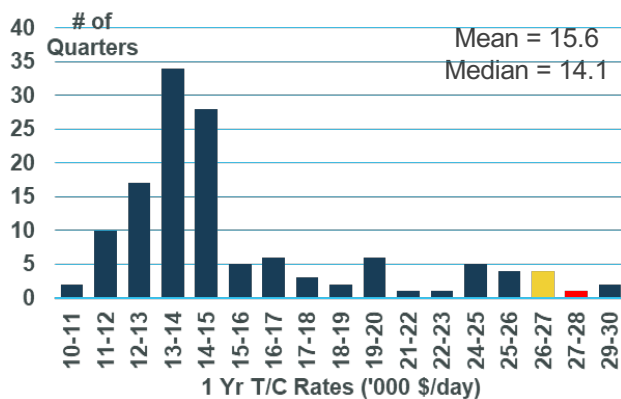
Quarterly Historical Distributions v Q1 23 v 2027

■ Q1 2023 ■ 2027

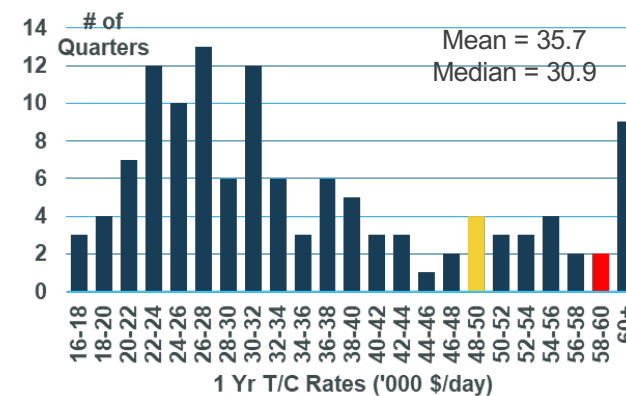
Panamax Bulker



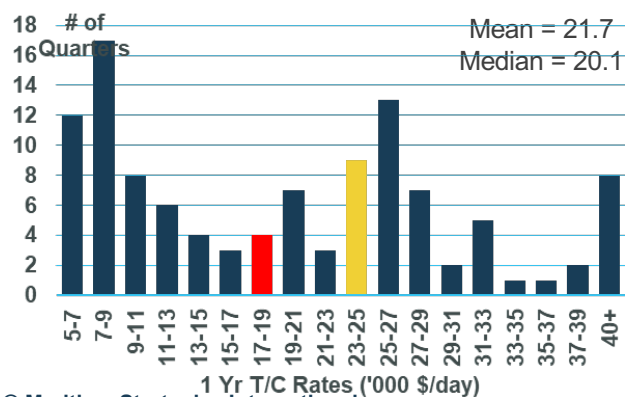
MR Tanker



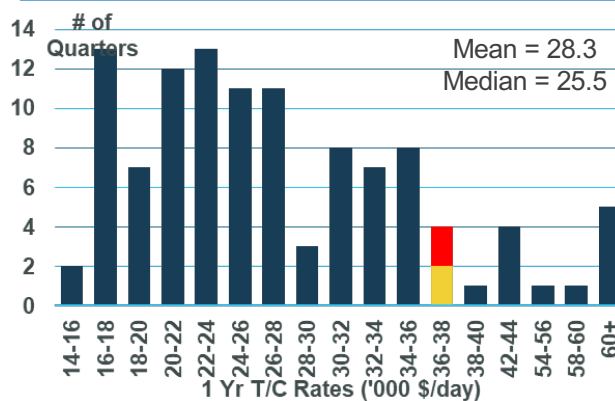
VLCC



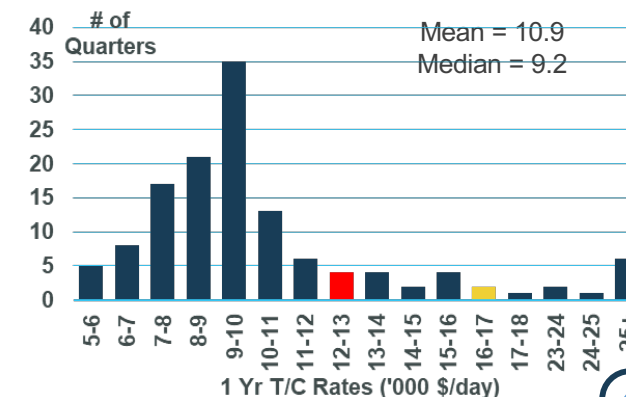
3.4kTEU Container



VLGC



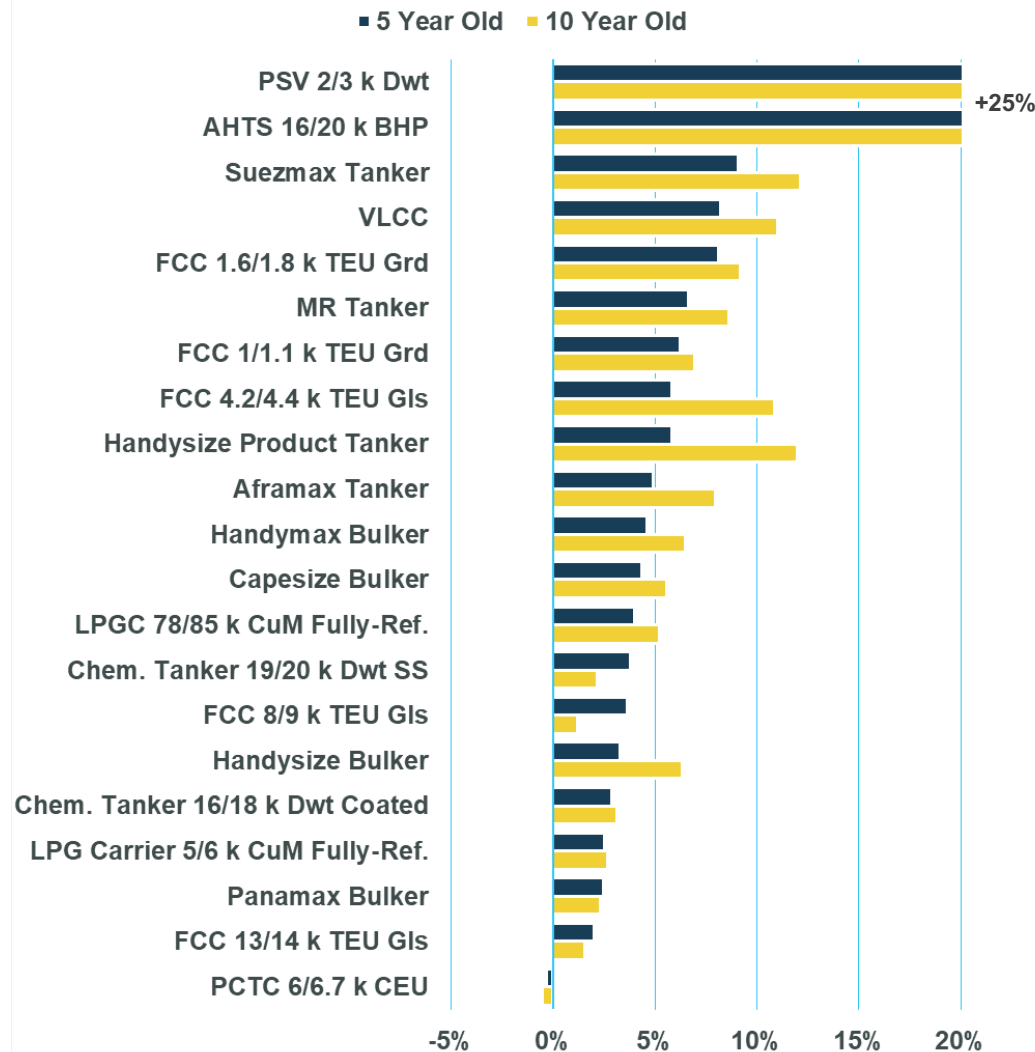
MPP



IRRs

Buy today sell in 2027

- Helicopter View
- China Changes
- Trade Maps
- Supply
- [2ndhand Values](#)



Note: Buy a vessel in Q1 2023 and sell in 2027
 Indicative returns based on annual average values
 Includes net earnings (1 Yr TC Rate – OPEX) and
 sale price
 No financing costs included

MSI Background and Disclaimer

For over 35 years, MSI has developed integrated relationships with a diverse client base of financial institutions, ship owners, shipyards, brokers, investors, insurers and equipment and service providers.

MSI's expertise covers a broad range of shipping sectors, providing clients with a combination of sector reports, forecasting models, vessel valuations and bespoke consultancy services.

MSI's team is comprised of professionals with extensive academic credentials, deep industry knowledge and many years experience of delivering successful client projects.

MSI balances analytical power with service flexibility, offering a comprehensive support structure and a sound foundation on which to build investment strategies and monitor/assess exposure to market risks.

While this document has been prepared, and is presented, in good faith, MSI assumes no responsibility for errors of fact, opinion or market changes, and cannot be held responsible for any losses incurred or action arising as a result of information contained in this document. Although any forecasts contained in this document are based on MSI's assumptions, there can be no assurance that these forecasts will prove to be accurate, as future events could differ significantly. Any forward statements, forecasts or trends contained in this presentation are not guarantees of the future and therefore no reliance should be placed on them. The copyright and other intellectual property rights in data, information or advice contained in this document are and will at all times remain the property of MSI.

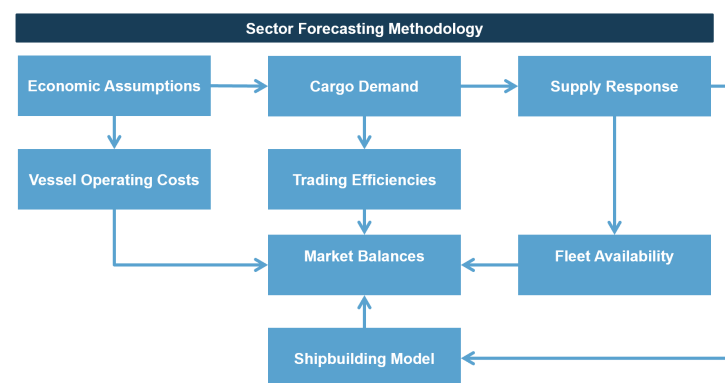
Introduction to MSI

Maritime consultancy offering modelling, data, asset valuation and strategic advisory services

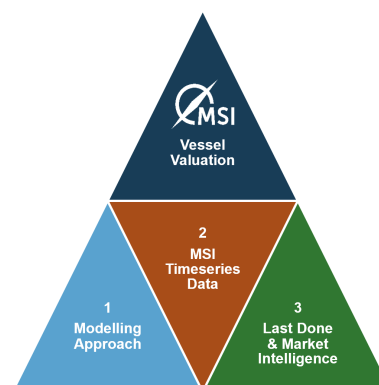
MSI's Strategic Advantage

Approach	MSI specialises in model-based forecasting of shipping, offshore and allied industries and offers structured quantitative analysis to support business decisions.
Expertise	MSI's team is comprised of professionals with extensive academic credentials, deep industry knowledge and many years experience of delivering successful client projects.
Coverage	MSI's depth and quality of market coverage is unparalleled, providing reports, models, valuations and consultancy across all commercial shipping and offshore sectors.
Independence	MSI provides unbiased, independent market forecasting and business advisory services.
Network	MSI can draw upon a number of corporate partners and our extensive network of industry contacts to offer a broad range of consulting and analytical services.

Forecasting Models (All Marine Markets) & Market Reports



Current and Forecast Asset Valuations



MSI independent valuations are derived by applying a meta analysis approach using:

1. MSI's proprietary econometric modelling processes and algorithms developed over the last 25+ years
2. Vessel benchmarked and analysed in relation to MSI published timeseries data
3. Vessel directly compared to last done sales and current market intelligence on likely sale candidates and prices.

MSI's valuation services include:

- Certificated spot valuations
- Vessel forecasts (value, earnings, nb price and opex)
- Charter attached valuations
- Option price valuations
- Forecast value sensitivity and stress testing
- RVI support including soft value, forced value, recessionary value, cautious plausible value, 1 in 100 value etc.
- Valuation briefing notes
- Valuation reports
- Expert witness/Expert testimony

Advisory Services

- Is there a clear strategic vision for the development of the business?
- Does the market, customer and competitor analysis in the BP align with MSI's assessment contained in Stages 1 and 2?
- What external stakeholders will influence the business plan's success or failure
- Are the financial projections realistic in light of MSI's forecasts contained in Stage 1?
- What are the key enablers for success?

- Based on the results of the analysis performed in Stages 1 and 2, MSI will review the companies existing business plan (BP) to assess:
 - Viability relative to external market conditions
 - Feasibility based on the companies likely ability to deliver upon it
- The review will focus on the following factors
 - market-related
 - financial
 - organisational structure
 - Office locations
 - Operating cost benchmarking
 - Overhead costs
 - Management team experience
 - Business development processes

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