The view in the deep ocean

CAPITAL LINK FORUM
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Global Shipping Markets
Current Developments & Outlook

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1. Shipping cycles getting longer
2. Sea trade growth changing
3. Shipyard capacity management
4. The zero emissions agenda
5. Digital revolution is accelerating.

SHIPPING MARKET TODAY, MANY NEW CHALLENGES
1. Shipping cycles getting longer

In today’s simplistic business model, cycles are the drivers of change
The Shipping Market Cycle Today - 25% below 25 year trend

For 70% of the last 25 years the market was trading below trend. Most of the money was made between 2004 and 2008.

This trough has now lasted 8 years and 3 months. It's not over yet.

Clarksea Index $000/day

The Clarksea index shows the average earnings of tankers, bulkers, containerships & gas.
Looks like the longest dry cargo cycle since 1845!

Shows FIRST year of each cycle & length from beginning of peak to beginning of next peak

If the dry market recovers in 2021 this cycle will have lasted 17 years

Sailing ship era 1743 to 1870

Source: based on the MEFI index produced by Martin Stopford
“Shadow” Surplus & Laid Up Tonnage estimate end 2016

“Shadow” Surplus – tonnage in excess of the dwt of ships needed to carry trade at full speed

“Shadow” surplus is soaked up by slow steaming today (18% fleet)
Tanker Orders, Deliveries & Demolition

February 2017 orderbook of 78m dwt 14% of the fleet

Big increase in counter-cyclical ordering 2012-2016

Orders placed in year
Dry Bulk orders, deliveries & demolition

- Deliveries
- Orderbook (with slippage)
- Demolition
- Orders
- Demolition Fcst

Big increase in counter-cyclical ordering 2010-2015
The trend growth rate of trade on a slowing trend

2. Sea trade growth changing
S6: World Industry growth rate to September 2016 – very sluggish

VERY WEAK INDUSTRIAL GROWTH SINCE 2009
Sea trade growth edges down - about 2.0% growth likely in 2017

Growth of sea trade 2000-2016 (annual % change)

% growth of trade in year

-4% -2% 0% 2% 4% 6% 8% 10%


7.3% 0.7% 3.0% 5.7% 6.6% 4.5% 4.8% 4.5% 2.5% -3.3% 4.5% 4.2% 3.4% 3.2% 2.6% 2.3% 2.0%

2000 - 2017 % growth of trade in year


7.3% 0.7% 3.0% 5.7% 6.6% 4.5% 4.8% 4.5% 2.5% -3.3% 4.5% 4.2% 3.4% 3.2% 2.6% 2.3% 2.0%

Sea trade growth edges down - about 2.0% growth likely in 2017

Growth of sea trade 2000-2016 (annual % change)
In 1966 sea import trade was 1.8 billion tonnes — 10.2 billion tonnes in 2016.

\[ y = 2076e^{0.0309x} \]

Source: data collected by Martin Stopford from various sources, mainly United Nations and UNCTAD.
1. OECD now imports only 37% of cargo
2. China and Asia driving trade
3. Non-OECD 63% and maybe 75% soon
4. Non-OECD has six times the population

The bulkers & liners struggle with mature technology
5. The bulk & liner revolutions are over
6. Cargo owners have stepped away
7. Designers struggling to improve ships
8. Very big containerships disappointing

The future – another revolution desperately needed
9. Shipping investors need a new vision
10. World economy needs new services

OECD share of imports half what it was 50 years ago

Sea trade growing but OECD losing market share

- OECD Imports 77%
- Non-OECD Imports 63%

Seaborne imports by region (% of world trade)

- OECD Imports 37%
- Non-OECD Imports 23%

The Pacific Trade Issue

TRANS-PACIFIC PARTNERSHIP (TPP)
USA has pulled out

FREE TRADE AREA OF ASIA PACIFIC (FTAAP)

REGIONAL COMPREHENSIVE ECONOMIC PARTNERSHIP (RCEP)
Close to completion. Focus on the basic business of cutting tariffs, which are high in Asia. But issues about the China export machine and India sceptical
In 1966 only 13% of the fleet was flagged out. Today it is over 70%

- 1.3 billion DWT of “flagged out” tonnage
- Over 70% of the merchant fleet is now registered offshore
- Up from 42% at the end of the 1980s (see chart)
- Shipping now a global business
3. Shipyard Capacity management

We need a better strategy for managing the supply of ships, but are not likely to get one.
Regional Shipbuilding Trends 1902-2015: different dynamics today

China’s shipbuilding strategy has changed from “getting bigger” to “getting stronger”

- China: GT 5.8%
- Korea: GT 37.3%
- Japan: GT 35.4%
- Europe: GT 19.1%
- Other countries: GT 2.4%
Deliveries of demolition Million DWT
Orderbook slippage
Orderbook April 2016
Deliveries
Series4

In 2009 there were 992 active yards
In 2016 there were 423 active yards

Stage 1
(expand existing capacity)

Stage 2
(Build & sell contracts for new capacity)

Stage 3:
orderbook slippage

Stage 4
(Close 581 uneconomic shipyards)

Stage 5
(Slow production & diversify in 423 active shipyards)

Deliveries based on o/book

World shipbuilding output & capacity 1994-2017

Deliveries of demolition Million DWT

Yamaha have a zero emission bike, but a zero emission cargo ship will need extreme technology.

4. The Zero Emissions Challenge
In 2066 seaborne trade could be 46 billion tonnes – or just 16 billion tonnes?

Source: data collected by Martin Stopford from various sources, mainly United Nations and UNCTAD
Low Carbon Shipping – some issues (not all mine!)

1. Shipping has recently decoupled from GNP due to slow steaming.
2. No alternative to the big diesel engine at present.
3. Operating ships very slowly would help significantly but who wants it?
4. LNG will not do the trick for shipping on a COP21 pathway, since it is a carbon-based fuel.
5. Low carbon is more political than economic and regulators bodies will move very slowly.
6. The risk is that "by leaving it until 2050 we fail to achieve anything”.
7. IMO has data collection process for MRV. and EU developing separate data system.
8. So we will know more accurately what the true carbon position is.
9. Given current commercial structure, how will owners respond to the carbon challenge?
10. A levy on fuel seems likely outcome say in in 7-10 years.
11. Needs to be simple and global. Who gets the cash? Can it fund research?
Are we smart enough to use the information & communications technology (ICT) revolution to revolutionize sea transport?

5. How to harness digital technology
Why Smart Shipping is a better investment

1. **Smart Shipping** tackles a historic problem – the global mobility of ships and limited ship-shore communications.

2. For centuries shipping has been restricted by this “fragmented” business model which makes each ship a small management unit.

3. Because companies only employ 1 or 2 people on shore for each ship at sea, big shipping companies have limited competitive advantage over small ones.

- Smart shipping can change this because now have the technology to run a fleet of ships as a “transport factory” (like a BMW car factory).
Three ways change the business Model

1. **Smart Ships** – with much better QA & efficiency standards;
2. **Smart Fleets** – which manage the smart ships like a transport factory (e.g. a BMW factory).
3. **Smart Global Logistics** – which integrate the whole thing door to door.

Massively more efficient satellite communications are removing the 5000 year old need to treat the ship as the business unit.
6. Is the business model serviceable?
A challenging time

The End