

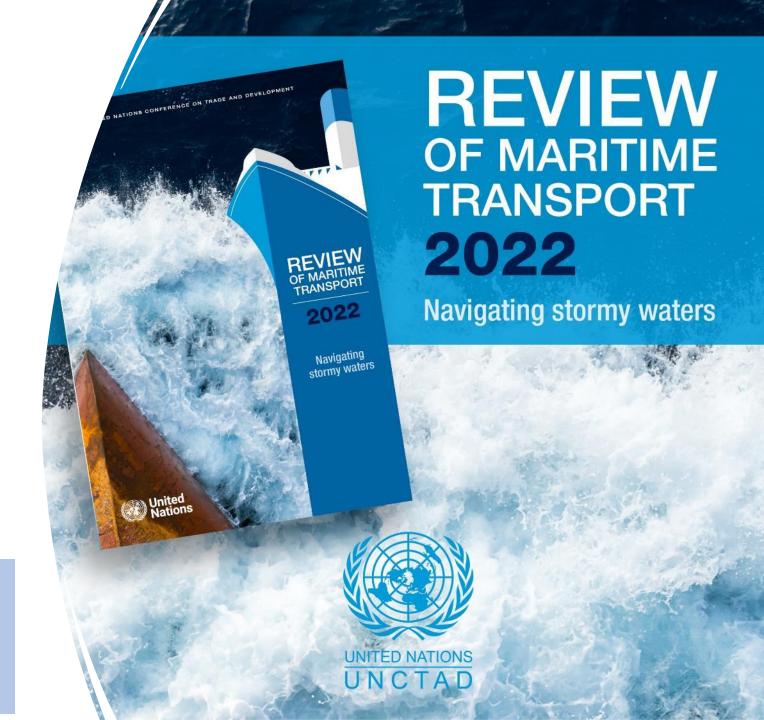
Demand: Trade

Supply: Services & Infrastructure

Markets: Rates and Costs

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Maritime transport at a turning point

- A break in historical shipping and trade patterns?
- Cyclical or structural shift?
- New geography of trade?
- Supply chain reconfiguration?
- New maritime transport and logistics business models?
- Shift in fleet/supply profile and capacity?

- ✓ COVID-19 Pandemic
- ✓ Global supply chain logjam 2021-2022, unprecedented port congestion & shipping rates.
- ✓ War in Ukraine and heightened geopolitical risks
- ✓ The imperatives of energy transition and climate change mitigation and adaptation
- ✓ Requirements brought about digitalization and e-commerce growth
- ✓ De-risking supply chains (resilience): globalization/regionalization; decoupling, near-shoring, friend-shoring, reshoring, risk management, preparedness.

UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT

UNCTAD

Demand International maritime trade

REVIEW OF MARITIME TRANSPORT

2022



International maritime trade and global output, selected years (percentage annual change):

+ 3.2% in 2021; 11 billion tons

- **□** GDP-Trade correlation
- Volumes bounced back
- □ Below pre-pandemic level

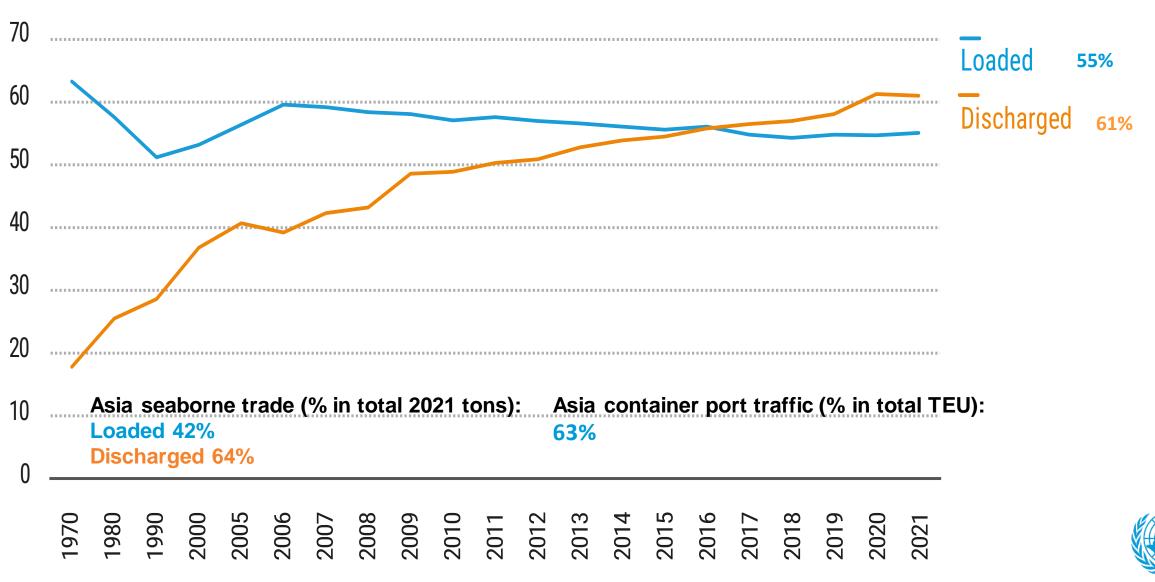


Seaborne trade



GDP

Participation of developing countries in international maritime trade, selected years (percentage share in total tonnage)



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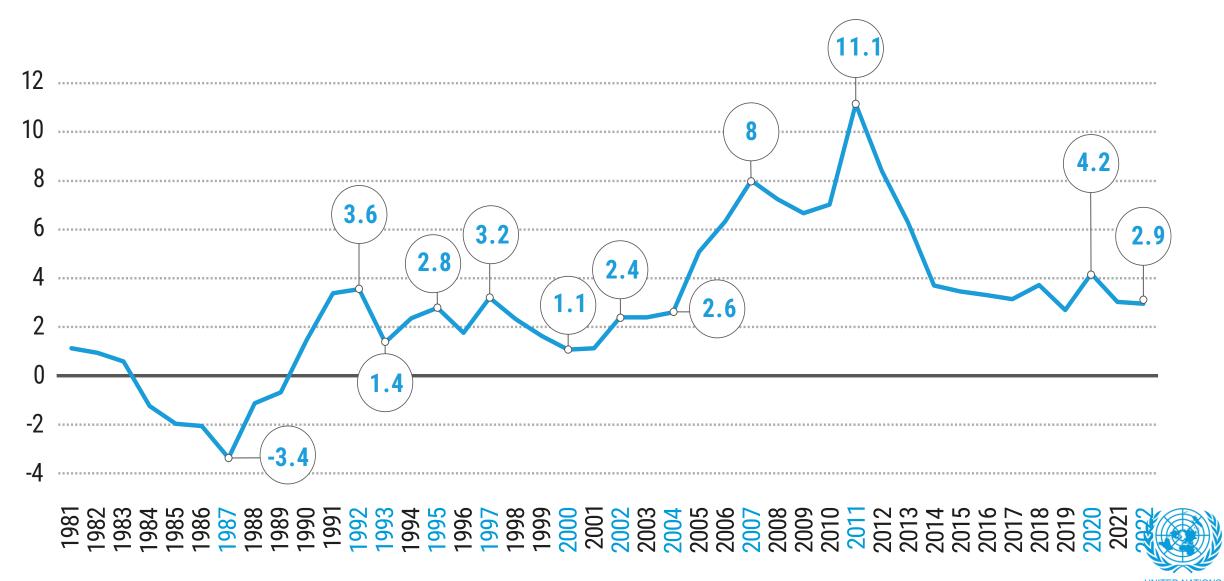
Supply
Maritime transport services



2022



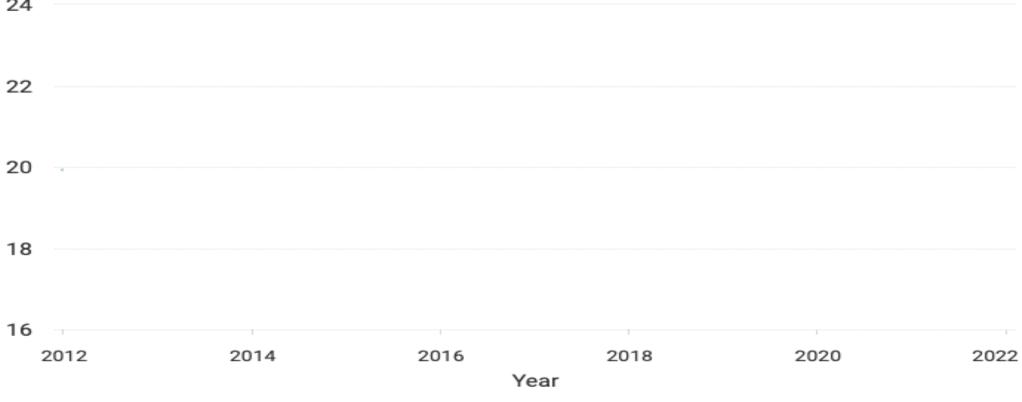
Annual growth of the world fleet, 1981–2022 (percentage of dead-weight tonnage)





The world's shipping fleet is ageing

Average age of merchant fleet, 2011-2022



Source: UNCTAD calculations, based on data from Clarksons Research.

Note: Propelled seagoing vessels of 100 gross tons and above, as of 1 January 2022.





Markets

Freight rates and transport costs



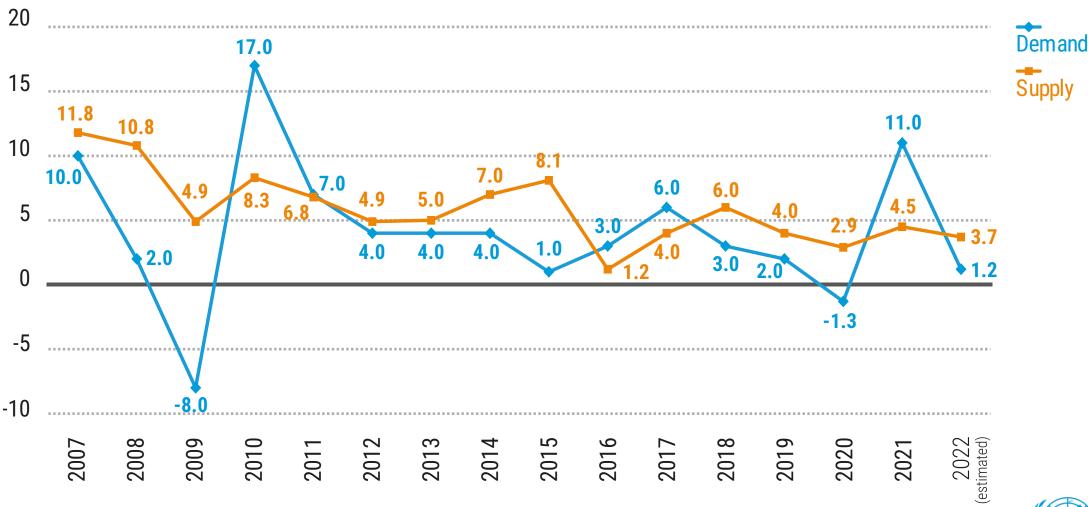


Supply chain crunch 2021-2022

Pandemic, supply-demand imbalance, Suez Canal incident, war in Ukraine, zero-covid policy in China, strikes

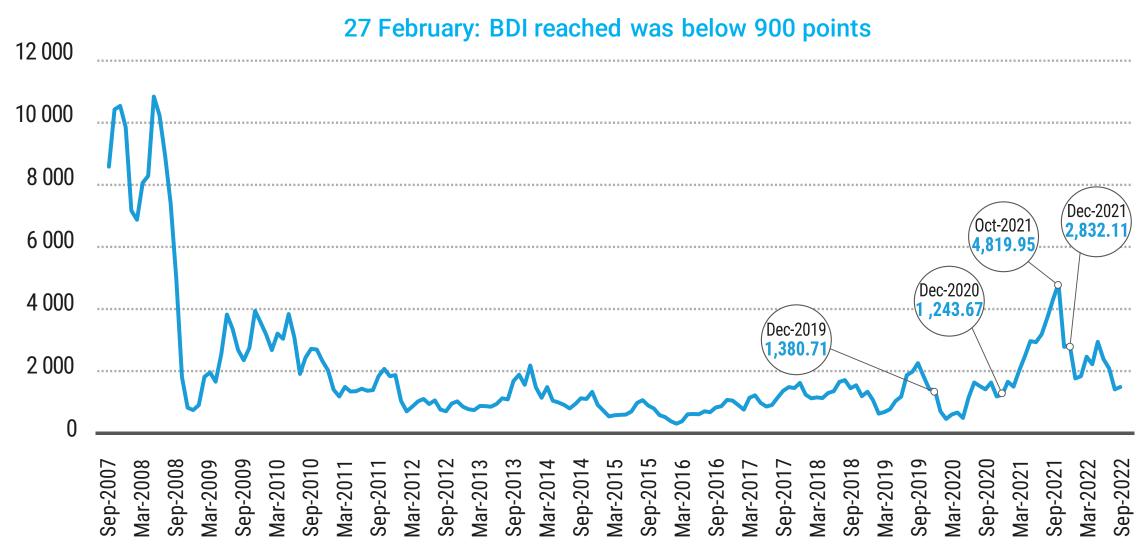
- Higher shipping costs, lower connectivity, delays, port congestion, labour shortages, equipment shortages, inflation, broken supply chains
 Key features of the logjam
- By mid-2021, **rates reached 4X** their pre-pandemic levels
- Unprecedented port congestion with container ships spending 20% more time in ports compared to pre-Covid era
- In July 2022, container ship capacity held up in ports reached **37%** (up from 32% in 2016-2019)
- Carriers seeking more profitability changed their shipping patterns, stopping calls at certain ports
- Fall in schedule reliability resulted in losses to shippers totaling \$5-10 billion

Growth of demand and supply in container shipping, 2007–2022 (percentage change)

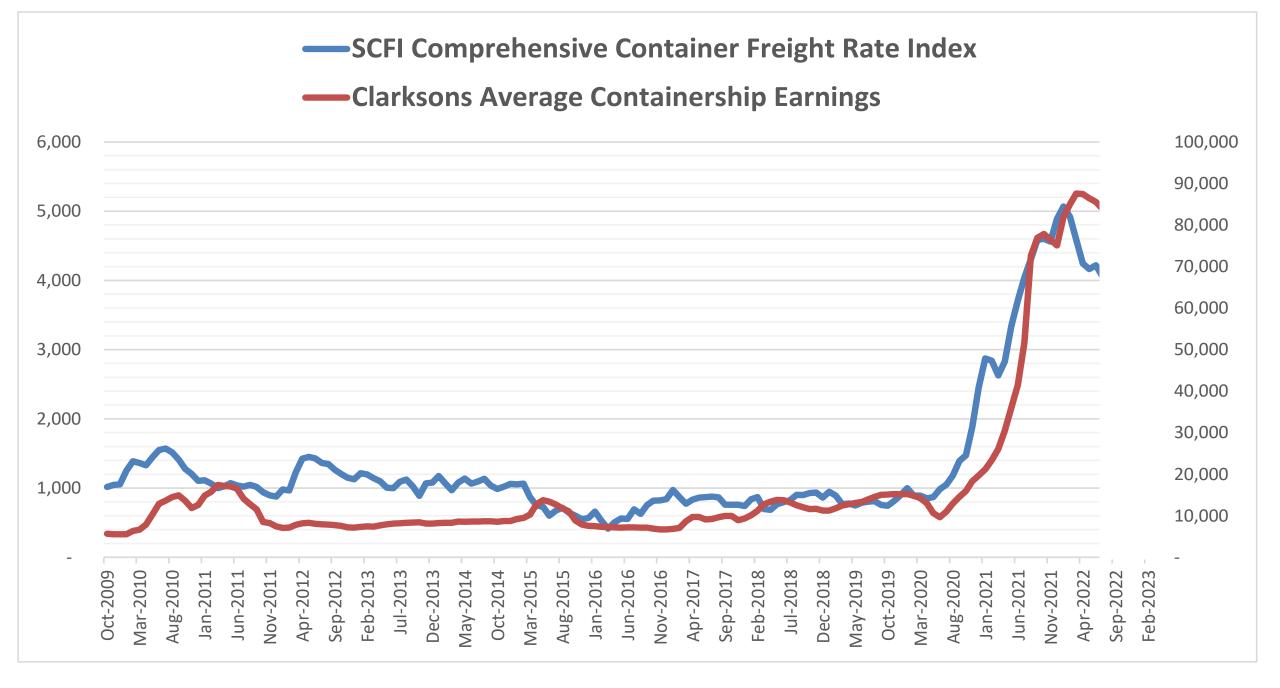




Baltic Exchange dry index, September 2017-September 2022



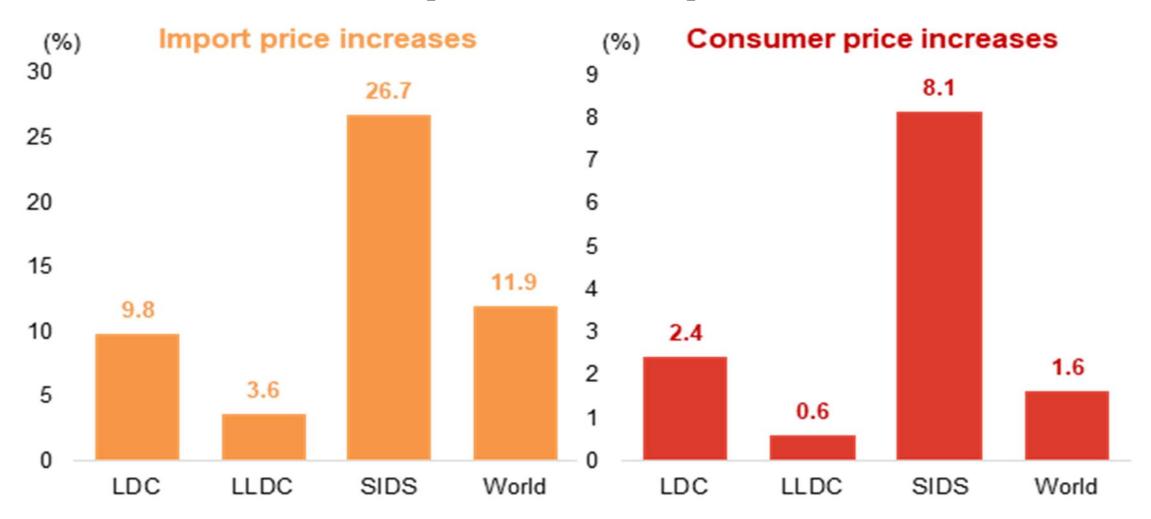




Important implications for consumer prices and inflation according to UNCTAD analysis

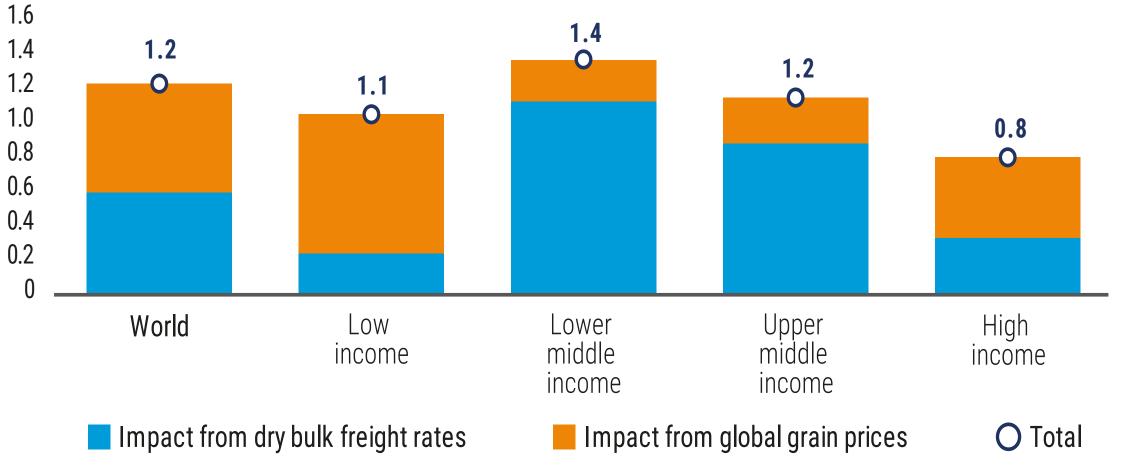
- High container freight rates of 2021–2022 will be passed on to consumers and lead to an additional increase in global consumer prices of 1.6%. SIDS hardest hit
- Higher grain prices and dry bulk freight rates in early 2022 contribute to a 1.2 per cent increase in consumer food prices
- Strong nexus between shipping costs and headline inflation. Effect more persistent

Simulated impact of the container freight rate surge on import and consumer price levels



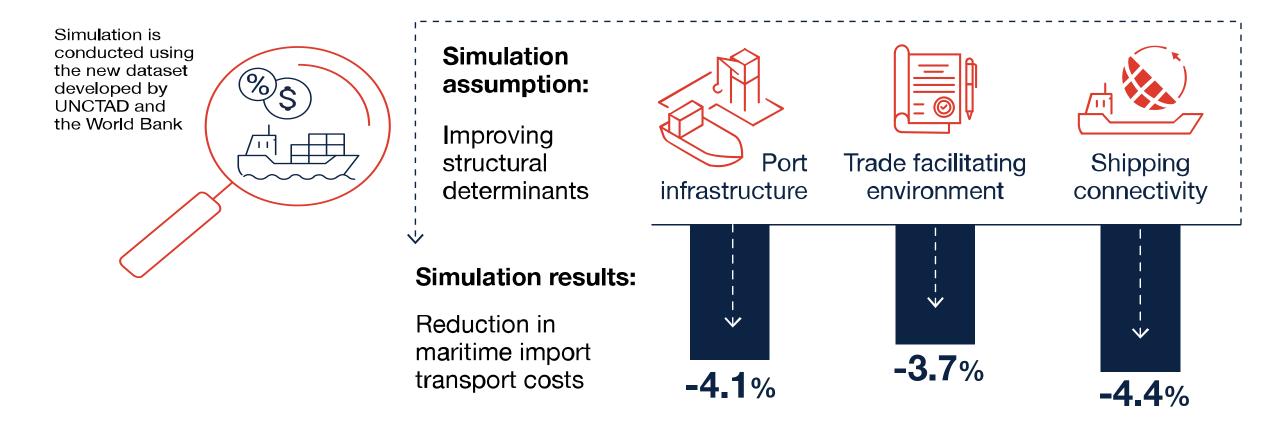
Source: UNCTAD (2022), Sustainable and resilient transport and trade facilitation in times of pandemic and beyond: key challenges and opportunities.

Impact of higher dry bulk freight rates and global grain prices on consumer food prices, selected country groups (percentage)





Simulated impact: improving maritime transport costs



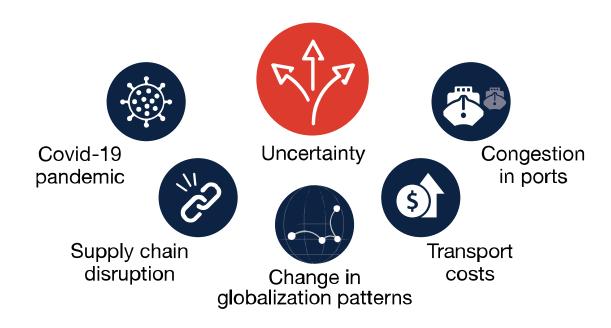


Outlook



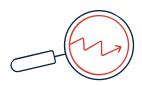
UNCTAD projections

1.4% projected growth for 2022. Risks and uncertainty remain



Geopolitics, energy transition, climate change, ...

Slow down over 2023-2027 (2.1%): Below the average of the past three decades (3.3%)

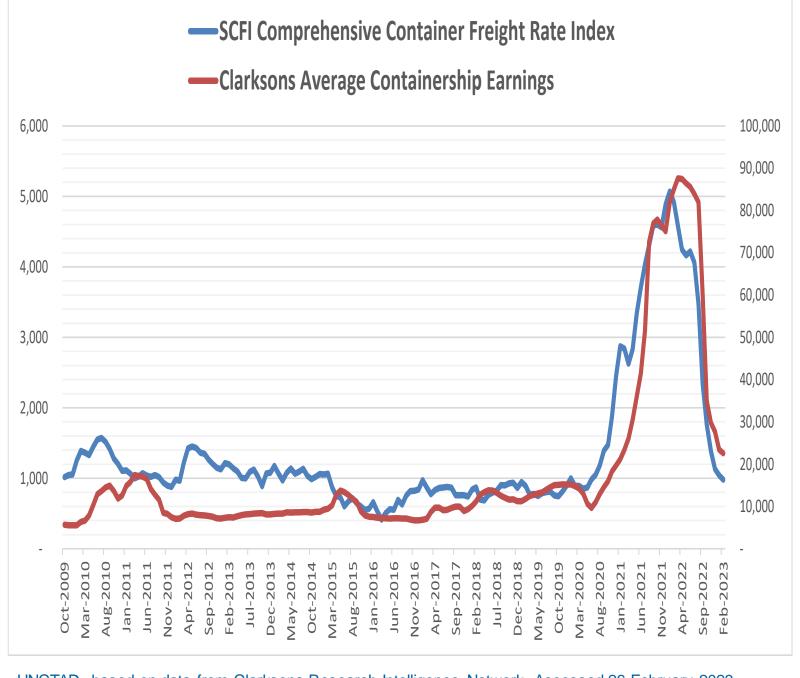


- GDP growth
- Spending on Goods vs. Services
- Stimulus effect fading away
- Inflation & cost-of-living crisis
- Easing of pandemic restrictions
- Trends in China's economy
- War in Ukraine
- Labour strikes

Freight rates

- Down and normalizing. In late 2022, still elevated compared to the pre-pandemic level.
- Normalization in February but risks remain including in connection with more disruption e.g.,
 - Strikes
 - war in Ukraine
 - Weather events/climate impact
 - Regulatory changes and related impact on the supply of ship carrying capacity (ship scrapping, retrofitting, sailing speed)

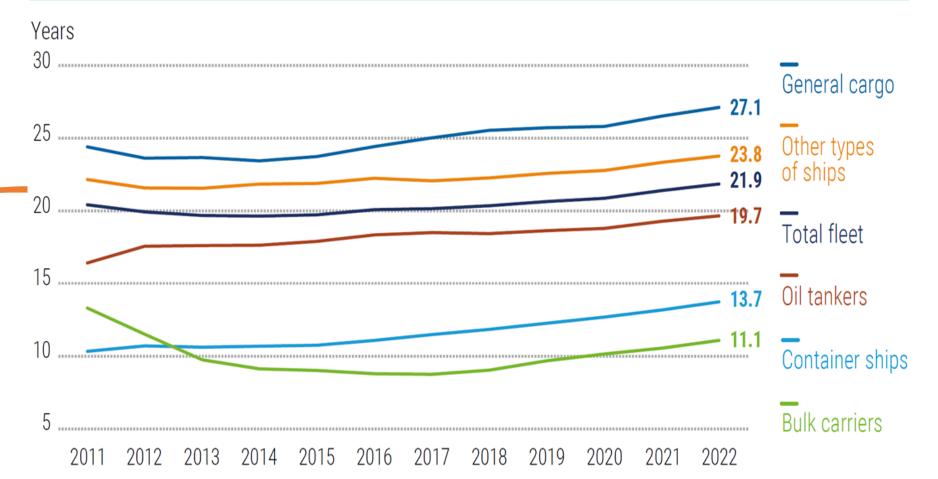
Tanker rates are another story



UNCTAD, based on data from Clarksons Research Intelligence Network, Accessed 26 February 2023.

Ageing Fleet

Figure 2.2 Average age of merchant fleet, 2011–2022



Source: UNCTAD calculations, based on data from Clarksons Research.

Note: Propelled seagoing vessels of 100 gross tons and above, as of 1 January 2022.

- Future of globalization: regionalization, fragmentation, decoupling
- ► E-commerce and e-logistics
- Digitalization
- Decarbonization, climate change adaptation
- Resilience building

Looking ahead:

- Legacies of disruption: some short lived but others have longer-term effects
- Maritime transport and trade will continue to be reshaped by evolving trends
- Transport costs, energy transition, climate change mitigation and adaptation, digitalization, and geopolitical forces are key drivers

Resilience and self-sufficiency: shortening of supply chains and diversification of suppliers (reshoring, near-shoring); change in the geography of trade, and associated change in fleet and port requirements

Looking ahead:

6 Changes in *production* AND consumption patterns i.e. e-commerce and tangibles versus intangibles

- Meed to better understand and control shipping costs in light of the new insights regarding their impact on headline inflation
- A clear regulatory framework is required to promote investment in low-carbon shipping and ensure sufficient supply capacity

Vulnerable/structurally weak/small economies require special attention

UNCTAD recommends, among other actions:



Supporting economic growth



Enabling trade, monitoring rates & controlling costs



Tackling infrastructure and services constraints



Transitioning to clean energy and a low carbon future

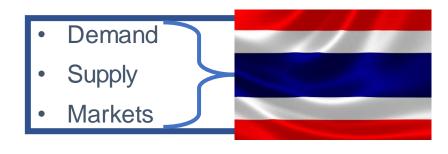


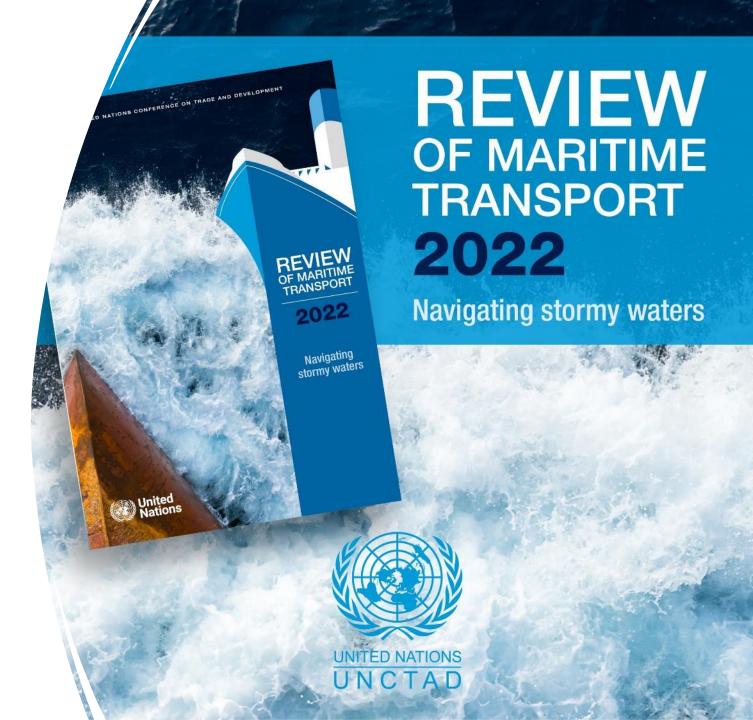
Promoting preparedness and resilience building



2022







230 maritime country profiles: Http://stats.unctad.org/maritime





MARITIME PROFILE

THAILAND

GENERAL INFORMATION FOR 2021





GDP

504 491 Millions current US\$



Merchandise trade1

538 888 Millions current US\$



Land area²

(o) 510 890 Km²



GDP growth

Basic data



Transport services trade3

90 003 Millions current US\$

MARITIME KEY FIGURES FOR 2021



Ship building4

0.000 GT



Ship recycling4

C

0.000 GT



Fleet - National flag⁵

6 059 Thousands DWT

Coast/area ratio²

13.8 m/km²



Fleet - National flag⁵

846 ships



Container port throughput7

10 213 905 TEU



Number of seafarers8

(I) 15 682



Fleet - Ownership⁶

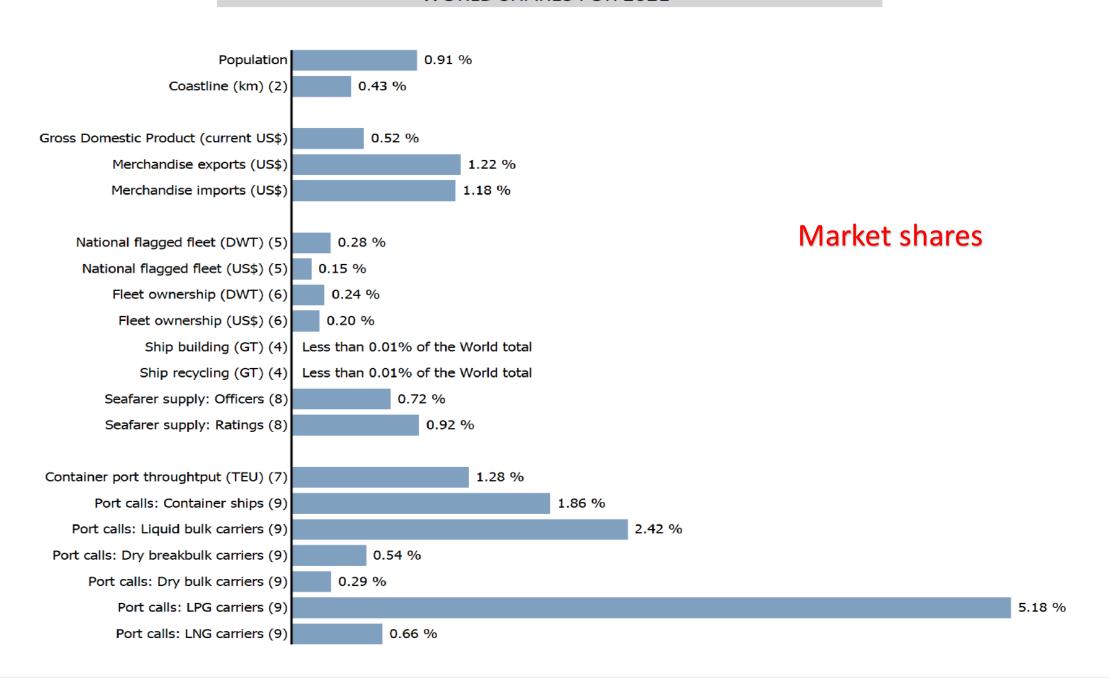
5 049 Thousands DWT



Number of port calls9

29 505

WORLD SHARES FOR 2021



THAILAND

INTERNATIONAL MERCHANDISE TRADE **Total merchandise trade** +17.4 % (millions of US\$) 2005 2010 2015 2021 Merchandise exports 110 936 193 306 214 310 272 006 Merchandise exports Merchandise imports 118 178 182 921 202 653 266 882 growth rate in 2021 Merchandise trade balance 5 124 -7 241 10 385 11 657 Export structure by product group in 2021 Top 5 partners in 2021 (as % of total exports) (exports, millions of US\$) Merchandize trade United States of America 42 039 All food items 37 438 China Agricultural raw materials 9 % 72 % 25 157 Japan Manufactured goods 12 618 Viet Nam 14 % Other 12 141 -4 % Malaysia

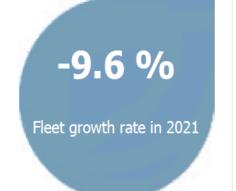
	INTERNATIONAL TRADE IN TRANSPORT SERVICES				S 🖪
Services exports by main category ¹⁰	,	Transpor	t service	es	
(as % of total services)	2005	2010	2015	2021	
Transport	23.2	17.2	9.9	17.6	
Travel	48.1	58.5	71.0	19.6	
Other services	28.7	24.2	19.1	62.7	
Total trade in transport services ¹⁰					
(millions of US\$)	2005	2010	2015	2021	
Transport services exports	4 626	5 914	5 743	4 322	
Transport services imports	14 439	18 858	15 662	38 445	
Transport services trade balance	-9 813	-12 944	-9 919	-34 123	

NATIONAL FLEET

Carrying capacity by type of ship⁵

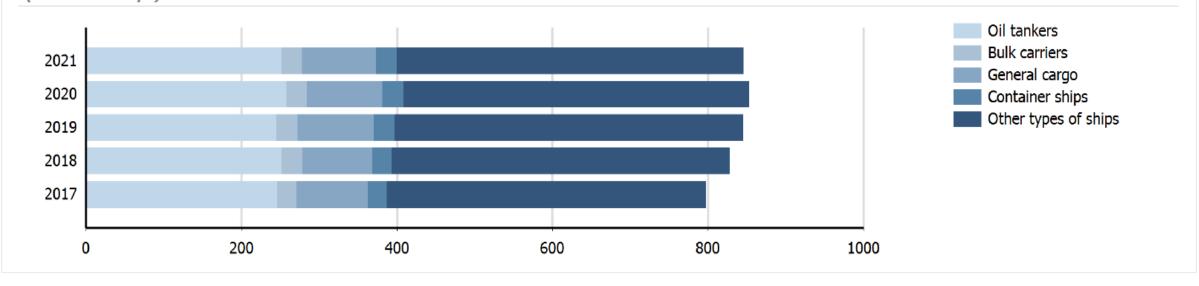
National fleet

(Thousands DWT)	2005	2010	2015	2021
Total fleet	4 382.0	3 746.8	5 366.3	6 058.9
Oil tankers	619.0	1 037.8	2 823.1	3 461.0
Bulk carriers	1 562.0	882.6	1 333.4	1 119.8
General cargo	1 805.0	1 300.2	436.3	352.7
Container ships	274.0	313.7	268.2	336.8
Other types of ships	122.0	212.4	505.4	788.7



Fleet by type of ship⁵

(Number of ships)



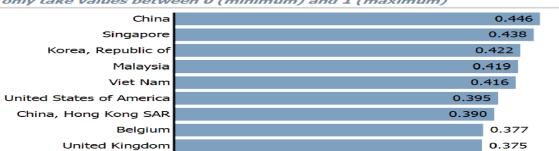
THAILAND

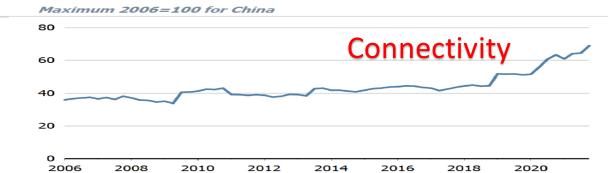


Bilateral connectivity index - Top 10 partners in Q1 202111

Can only take values between 0 (minimum) and 1 (maximum)

Liner shipping connectivity index11





Avg container

PORT CALLS AND PERFORMANCE

Port calls, time spent in ports, vessel age and size in 20219

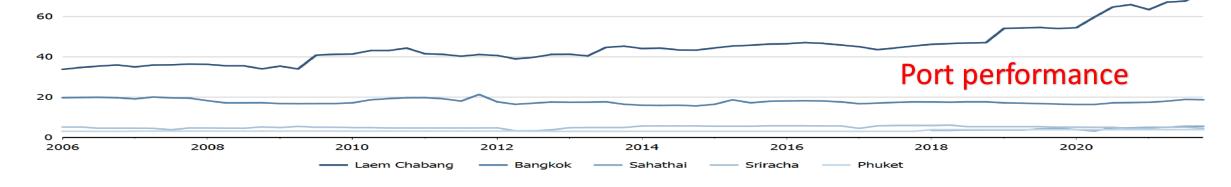
	Number of arrivals	Median time in port (days)	Avg age of vessels	Avg size (GT) of vessels	Avg cargo carrying capacity (DWT) per vessel	carrying capacity (TEU) per container ship	Maximum size (GT) of vessels
All ships	29 505	0.72	17	11 989	11 599	2 059	214 286
Liquid bulk carriers	12 551	0.65	17	6 745	11 478		167 578
Liquefied petroleum gas carriers	3 027	0.48	31	2 370	2 480		50 676
Liquefied natural gas carriers	89	1.15	12	116 037	92 643		163 922
Dry bulk carriers	818	3.36	12	24 106	41 209		107 720
Dry breakbulk carriers	2 351	2.22	16	7 845	10 347		54 567
Roll-on/ roll-off ships	844		16	36 694	12 350		76 420
Container ships	8 321	0.75	12	21 703		2 059	214 286
Passenger ships	1 504		30	1 240			7 003

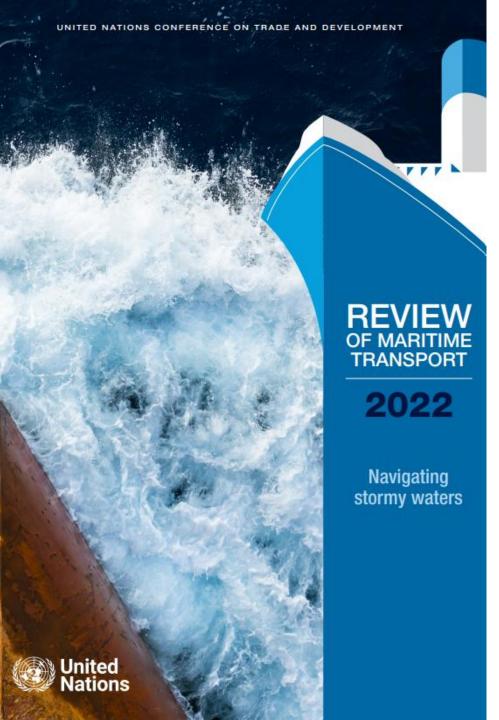
0.373

Port liner shipping connectivity index - Top 5 ports in 202111

Maximum 2006=100 for China, Hong Kong SAR

France





Thank you!



Download the report:

http://unctad.org/rmt



Access our data:

http://stats.unctad.org/Maritime