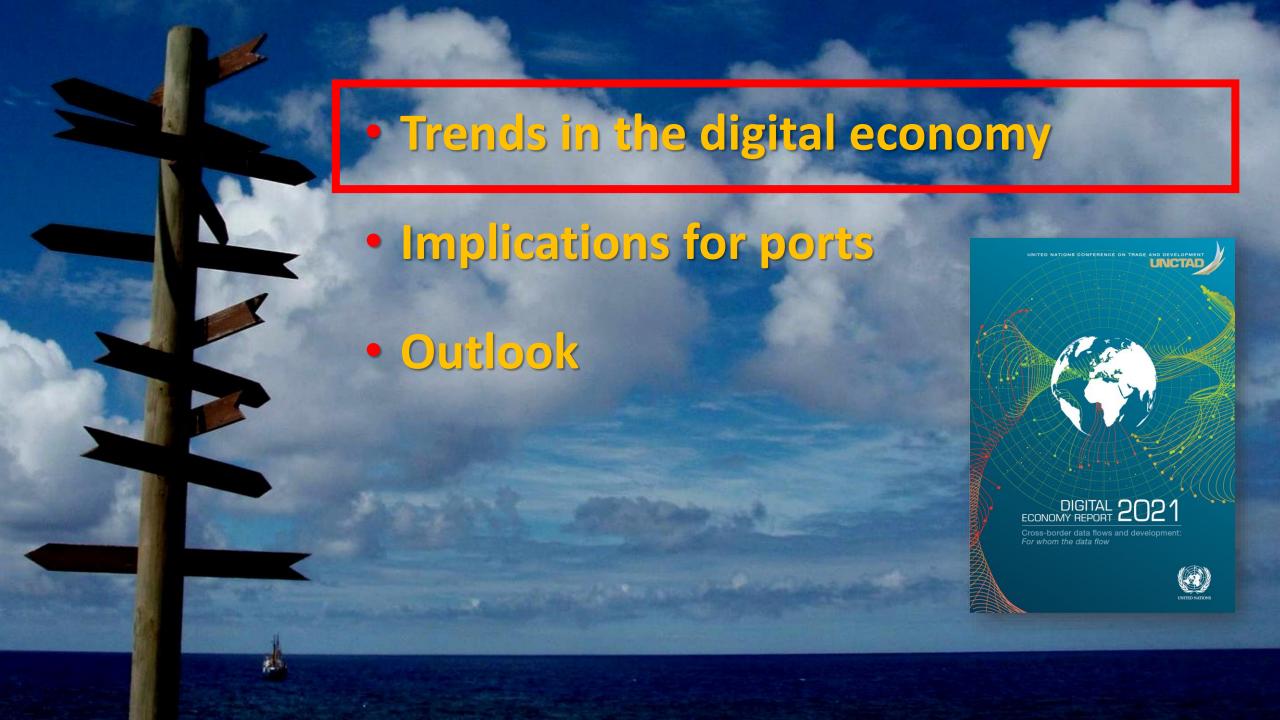


Digitalization for the future of ports





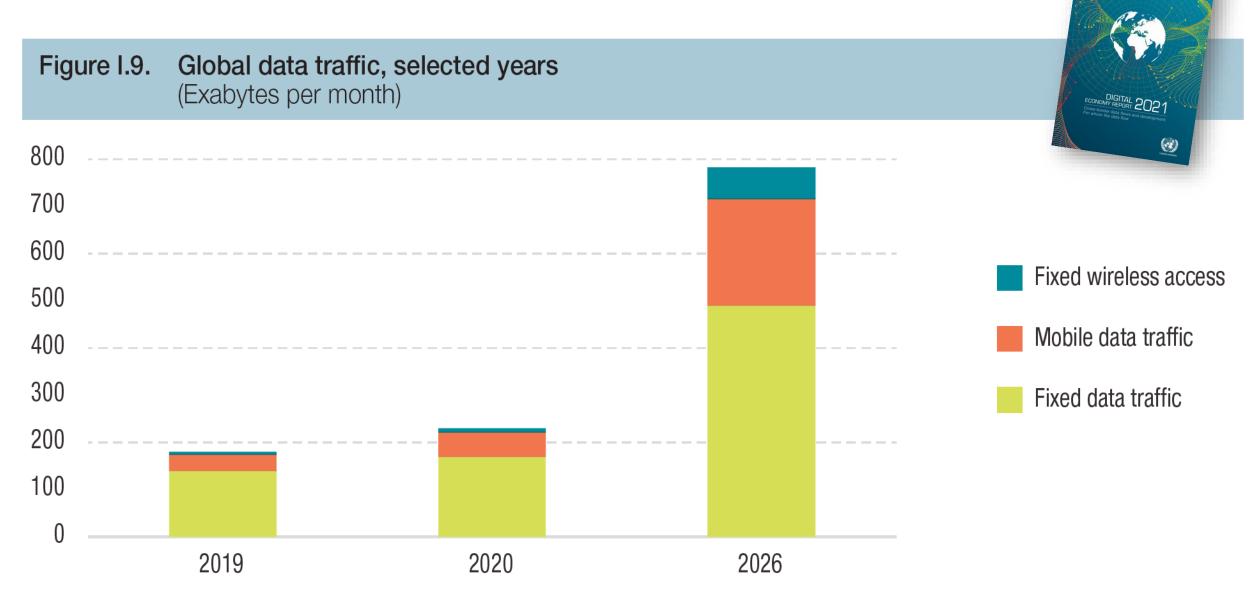
Data is an increasingly important economic and

strategic resource

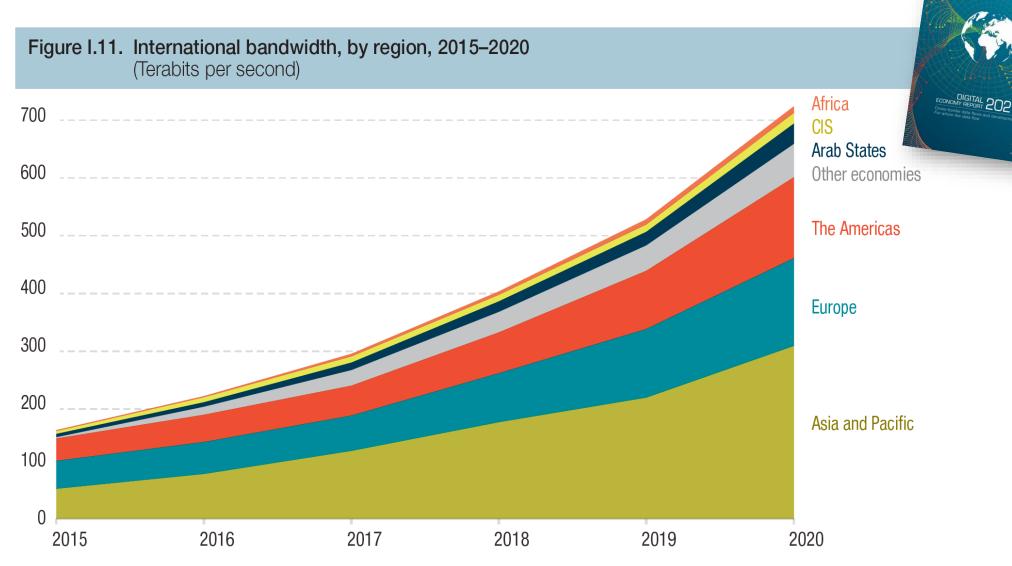


Data have become a key strategic asset for the creation of both private and social value. How these data are handled will greatly affect our ability to achieve the Sustainable Development Goals." António Guterres,

António Guterres, Secretary-General, United Nations



Source: UNCTAD, based on Ericsson (2020).

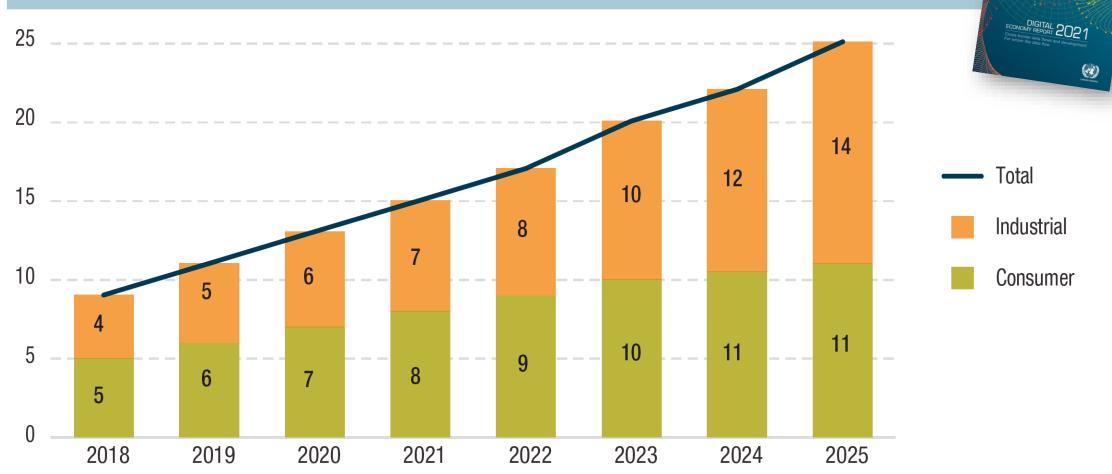


Source: UNCTAD calculations, based on ITU (2020) and ITU interactive report Measuring digital development, Facts and figures 2020, available at www.itu.int/en/ITU-D/Statistics/Pages/ff2020interactive.aspx.

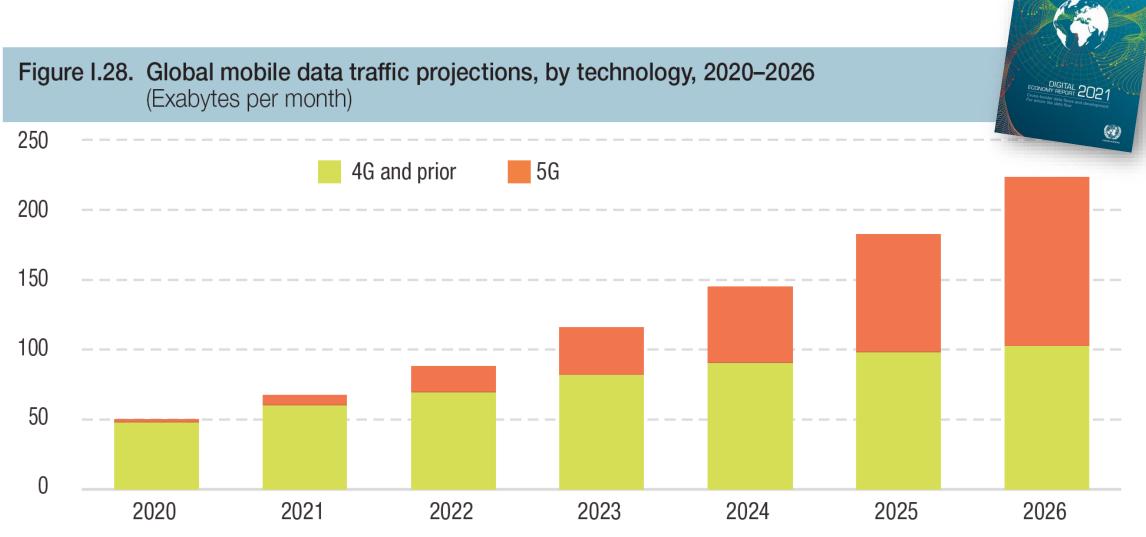
Note: Country groups are those of the source. Data for 2020 are ITU estimates.

Internet of Things

Figure I.26. Global number of IoT connections, by sector, 2018–2025, billions

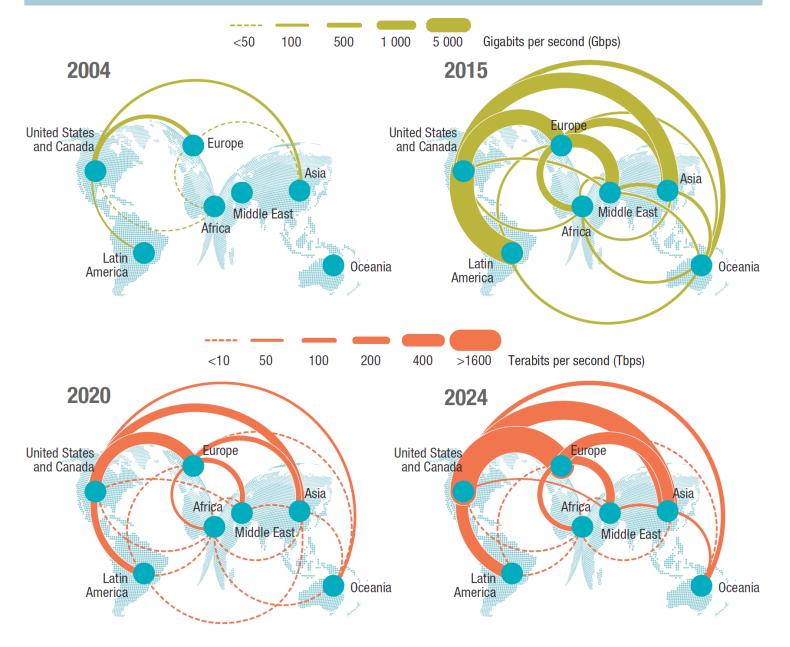


Source: GSMA (2019b).



Source: UNCTAD, based on Ericsson Visualizer, available at www.ericsson.com/en/mobility-report/mobility-visualizer?f=8&ft =2&r=1&t=1,20&s=4&u=3&y=2020,2026&c=3 (accessed April 2021).

Figure I.12. Evolution of interregional international bandwidth, selected years





Source: UNCTAD, based on TeleGeography (2015, 2019, 2021b). Note: One Terabite is equal to 1,000 Gigabites. Data for 2024 are forecasts.

Fragmentation will hamper development gains from data



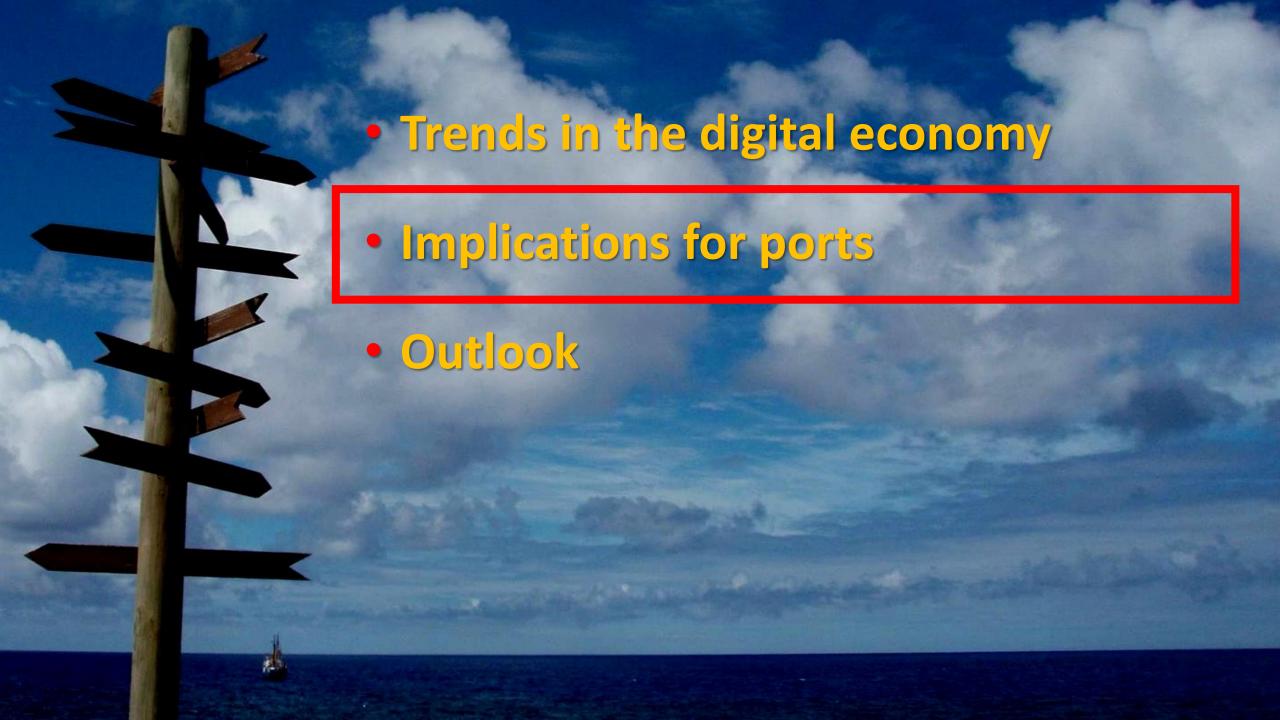
A silo-oriented, data-driven digital economy would go against the original spirit of the Internet and is not likely to work for the interest of developing countries.

In economic terms, interoperability should generate better outcomes.

Fragmentation would hamper technological progress, reduce competition, enable oligopolistic market structures in different areas and allow for more government influence.

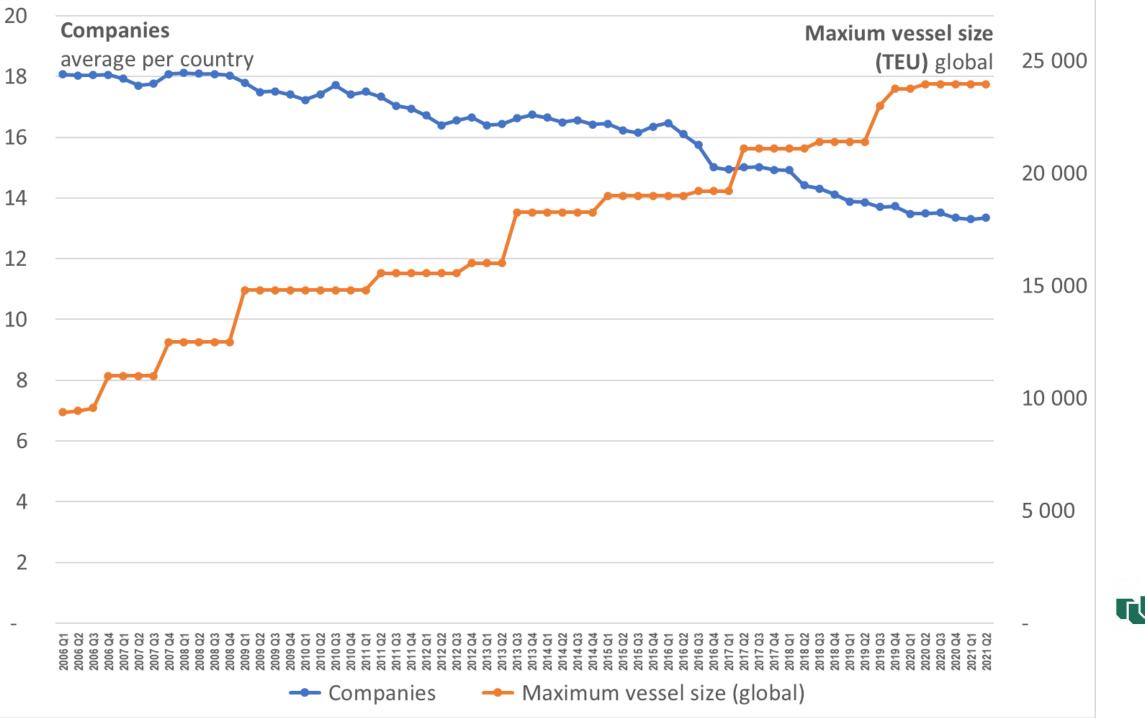
Fragmentation would also mean more obstacles for collaboration across jurisdictions.

In the absence of an international system regulating data flows, some countries may see no other option than to restrict them with a view to meeting certain policy objectives.



Growing digitalization

- Demand: More e-commerce, more volume: Do we need bigger ships?
- Supply: New opportunities
 Does digitalization also drive consolidation?

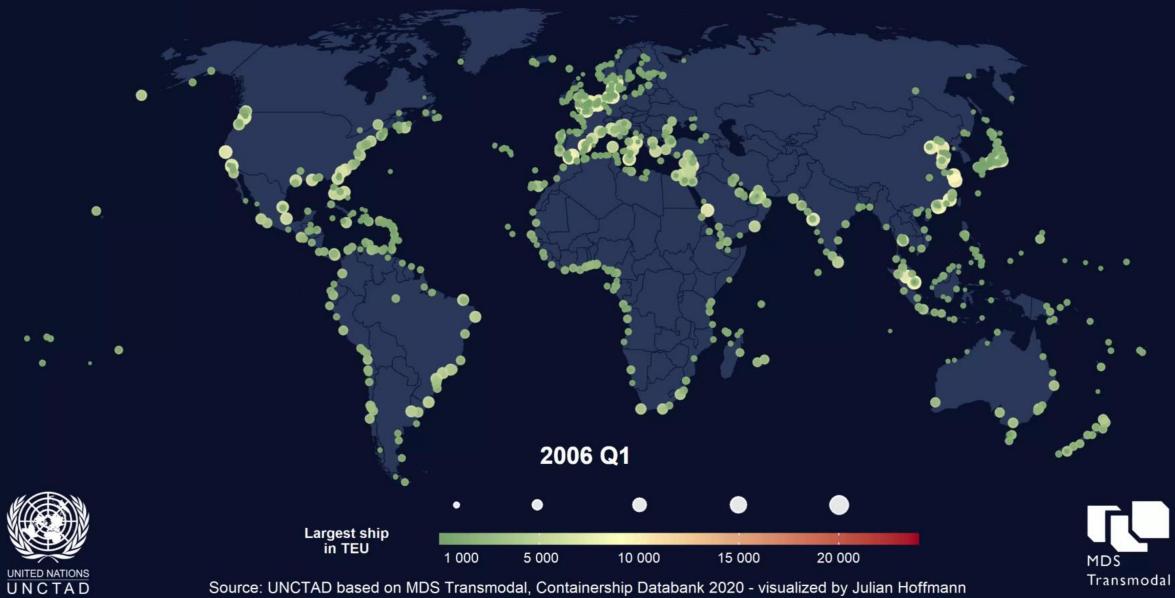






Where do the largest container ships call?

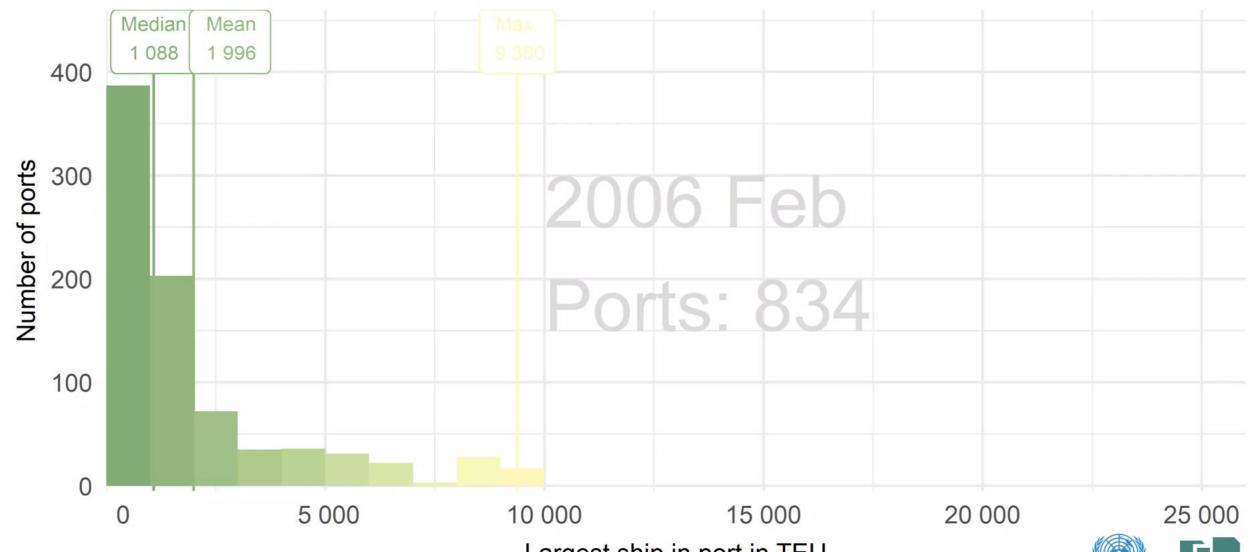
Size (TEU) of the largest ships deployed in each port. First quarter 2006 to fourth quarter 2020.



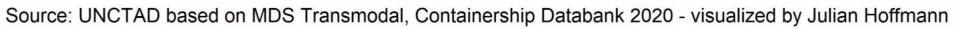
Source: UNCTAD based on MDS Transmodal, Containership Databank 2020 - visualized by Julian Hoffmann

Distribution of ports by largest container ship deployment

Size (TEU) of the largest ships deployed in each port. First quarter 2006 to fourth quarter 2020.



Largest ship in port in TEU

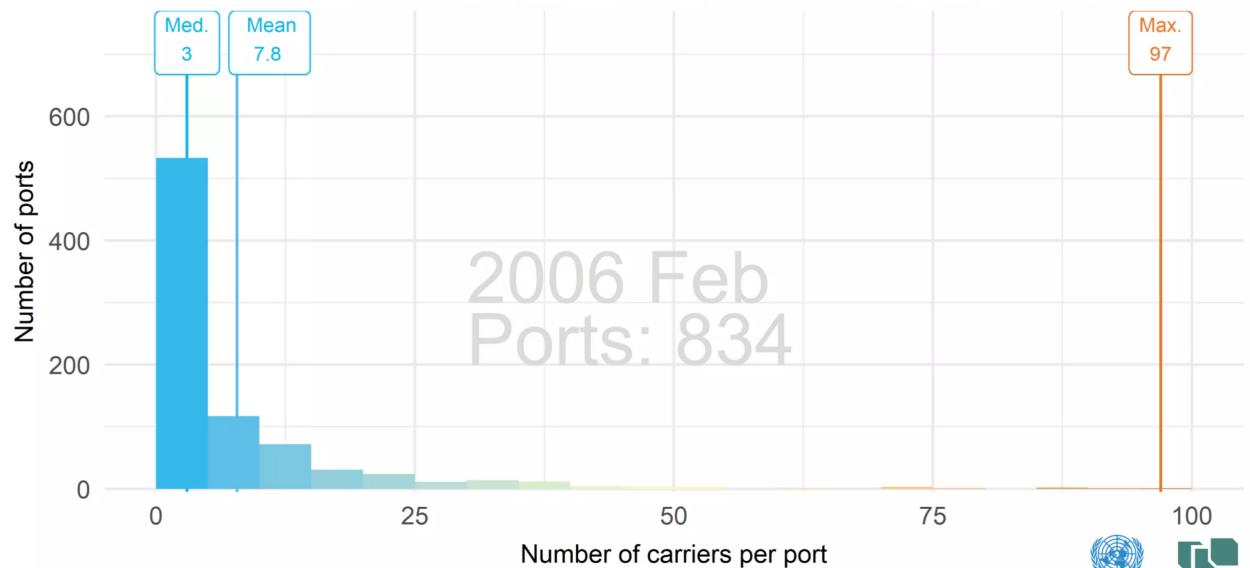






Distribution of ports by number of companies

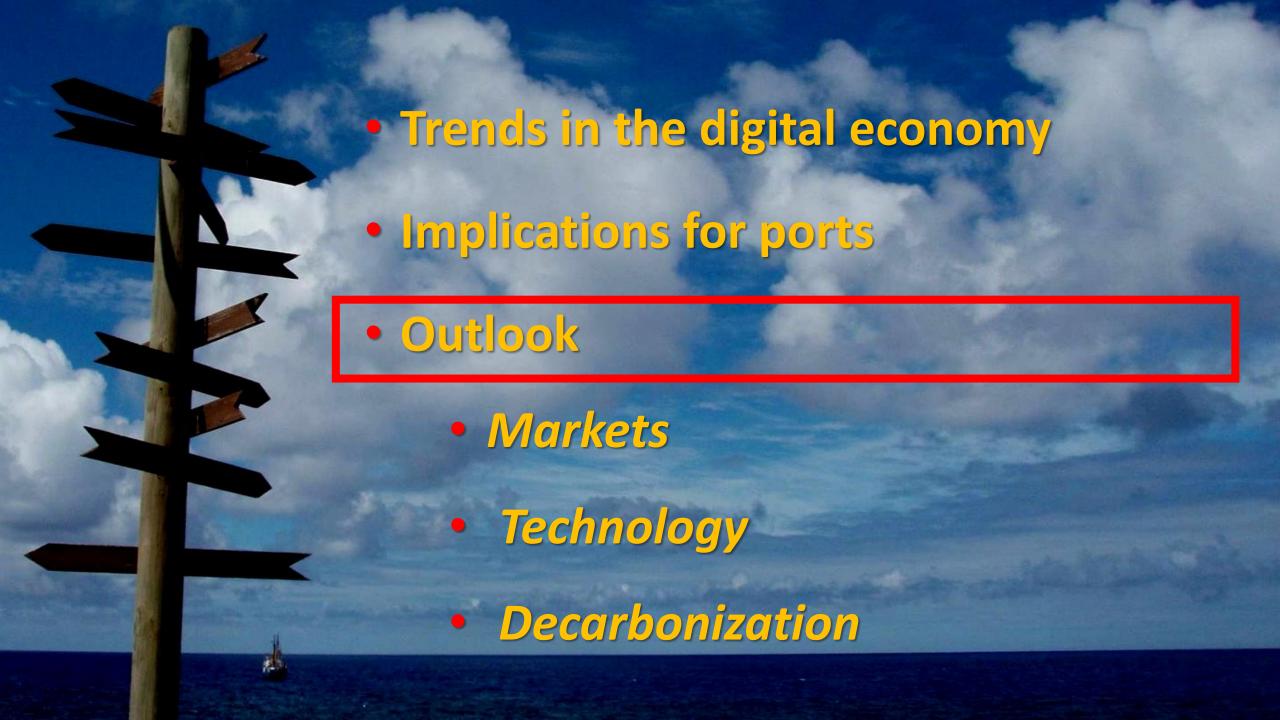
Number of carriers providing services per port. First quarter 2006 to fourth quarter 2020.

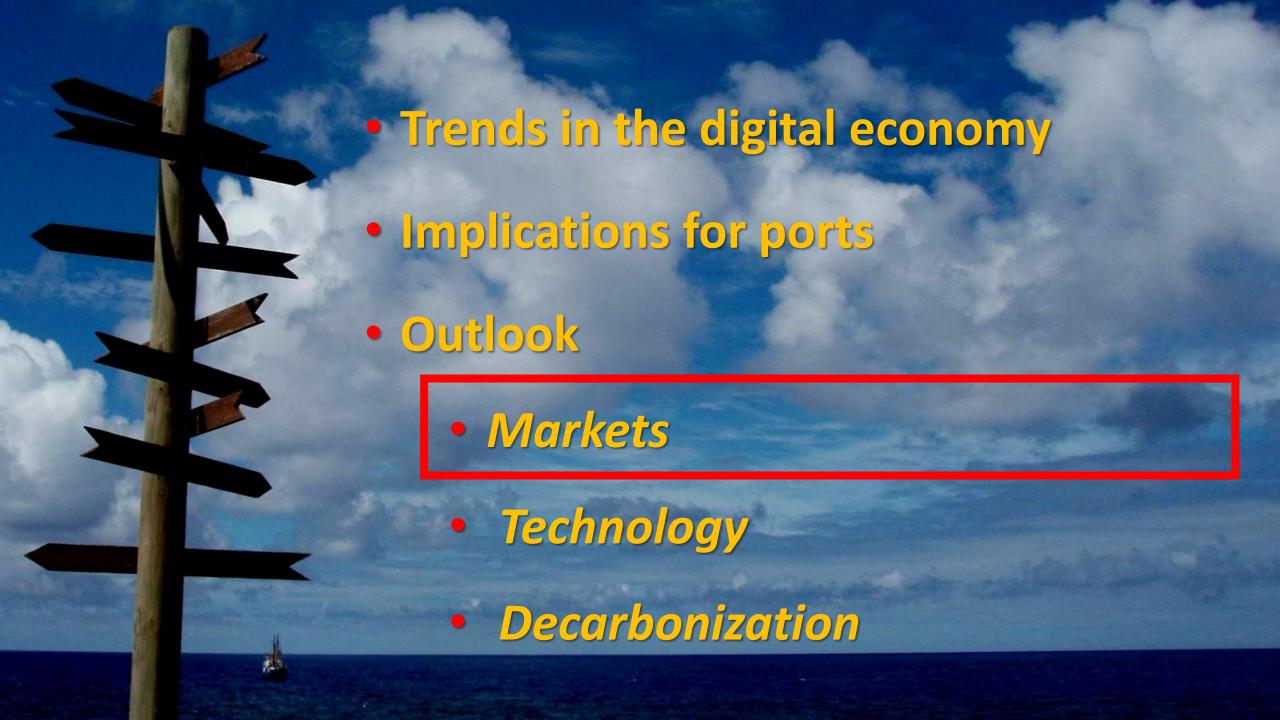


Source: UNCTAD based on MDS Transmodal, Containership Databank 2020 - visualized by Julian Hoffmann

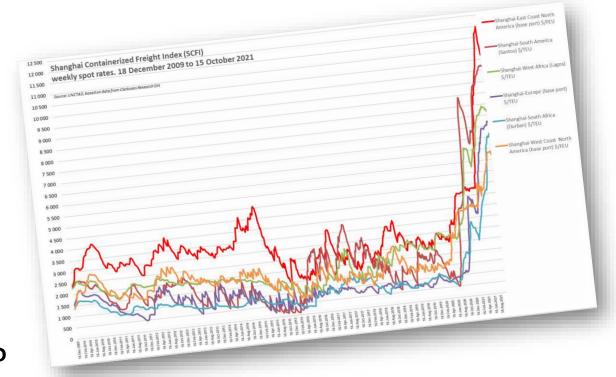








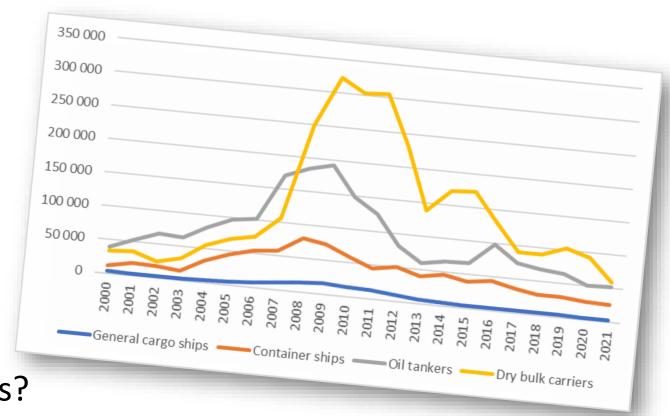
- 1. COVID-19
- 2. Shipping Cycle
- 3. Consolidation
- 4. Decarbonization
- 5. Will we have enough ships?



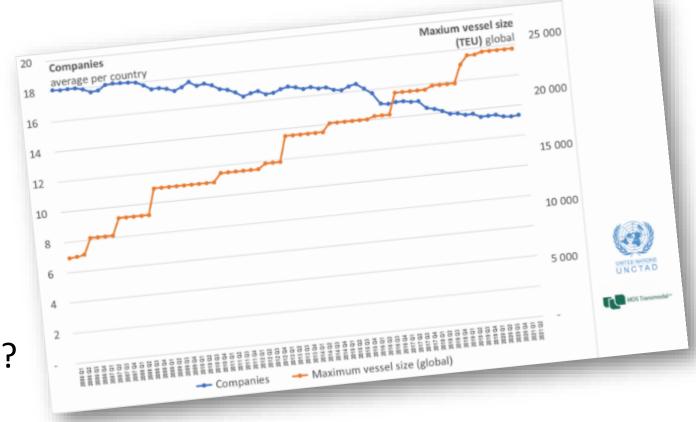
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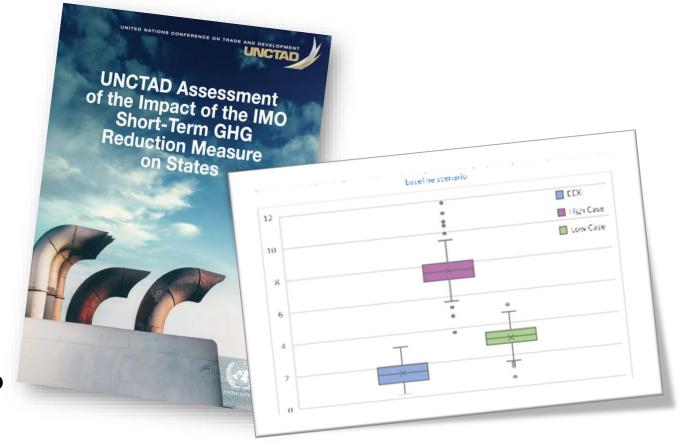
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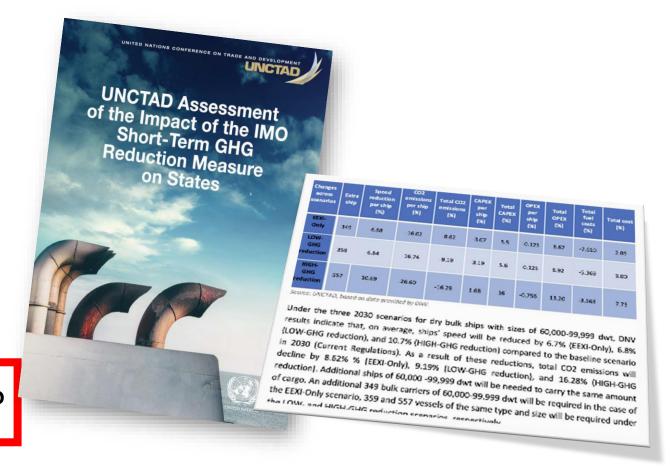


- 1. COVID-19
- 2. Shipping Cycle
- 3. Consolidation
- 4. Decarbonization
- 5. Will we have enough ships?

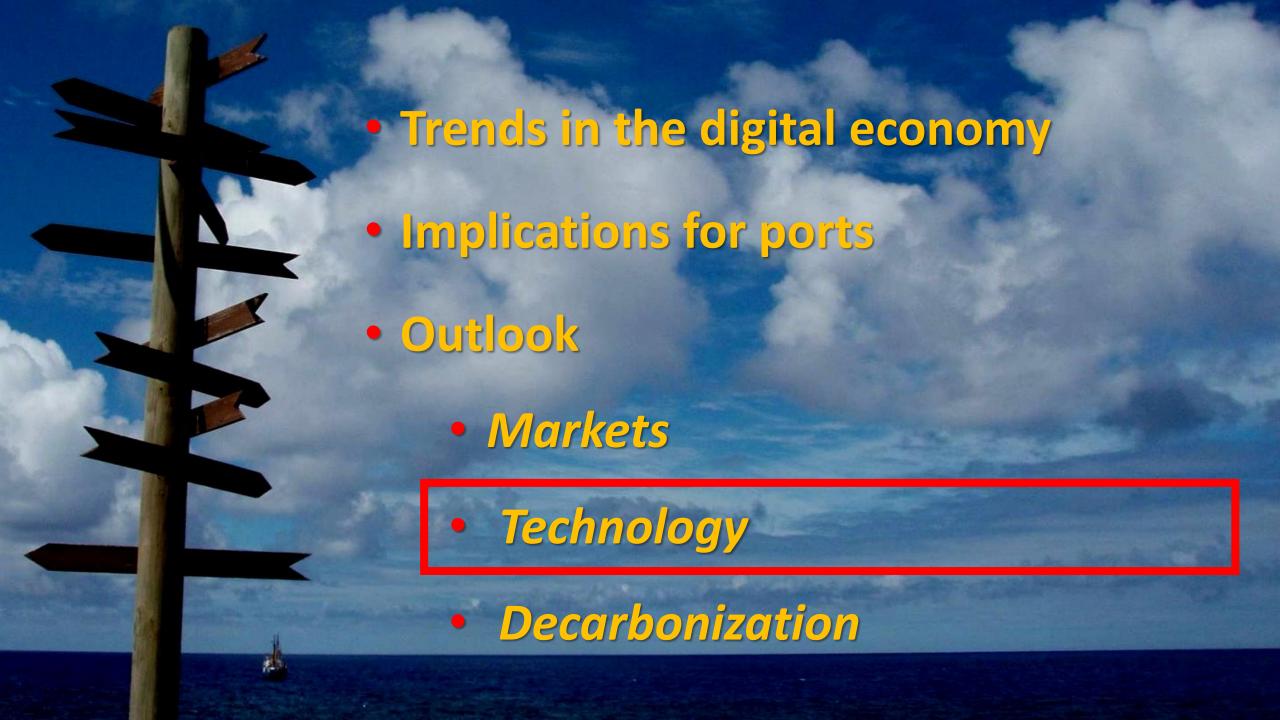


Source: UNCTAD

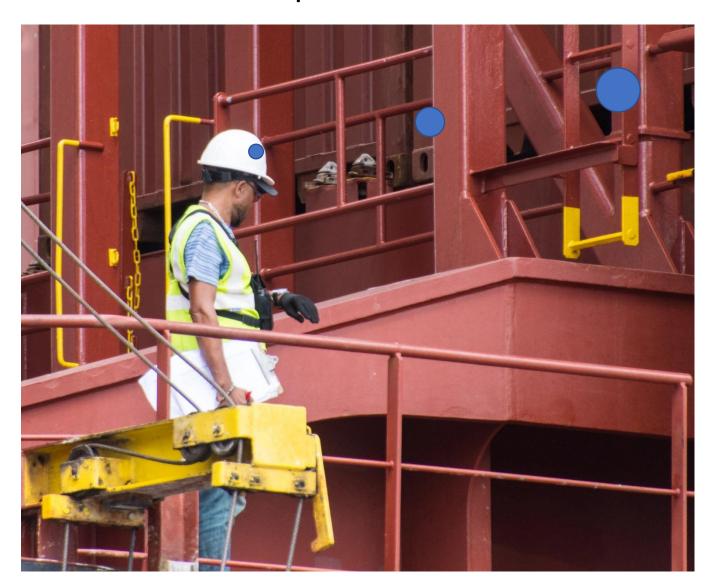
- 1. COVID-19
- 2. Shipping Cycle
- 3. Consolidation
- 4. Decarbonization
- 5. Will we have enough ships?



Source: UNCTAD



How to set today the rules for the future of maritime transport?



Technological progress will never be as slow as today

Who leads the IT reforms in your company?









Shipping in times of COVID19

A 10-point action plan

https://unctad.org/en/pages/PublicationWebflyer.aspx?publicationid=2713



Is there a trade-off between controls and trade facilitation?



The concrete measures proposed in this policy brief help to facilitate transport and trade and to protect the population from COVID-19.

UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPME

COVID-19: A 10-POINT ACTION PLAN TO

The coronavirus disease (COVID-19) pandemic is substantially impacting people's lives and livelihoods and putting extreme stress on socioeconomic systems. International collaboration. coordination and solidarity among all is going to be key to overcoming this unprecedented global challenge. As part of efforts aimed at reducing the international spread of the virus and to mitigate the potentially crippling longer-term consequences of the pandemic, especially for the most vulnerable countries, policymakers need to take a number of measures to ensure the facilitation of international trade and the transport of goods. It is crucial to keep ships moving, ports open and cross-border and transit trade flowing, while ensuring that border agencies can safely undertake all necessary

Challenges for international

Border agencies face the challenge of expediting



















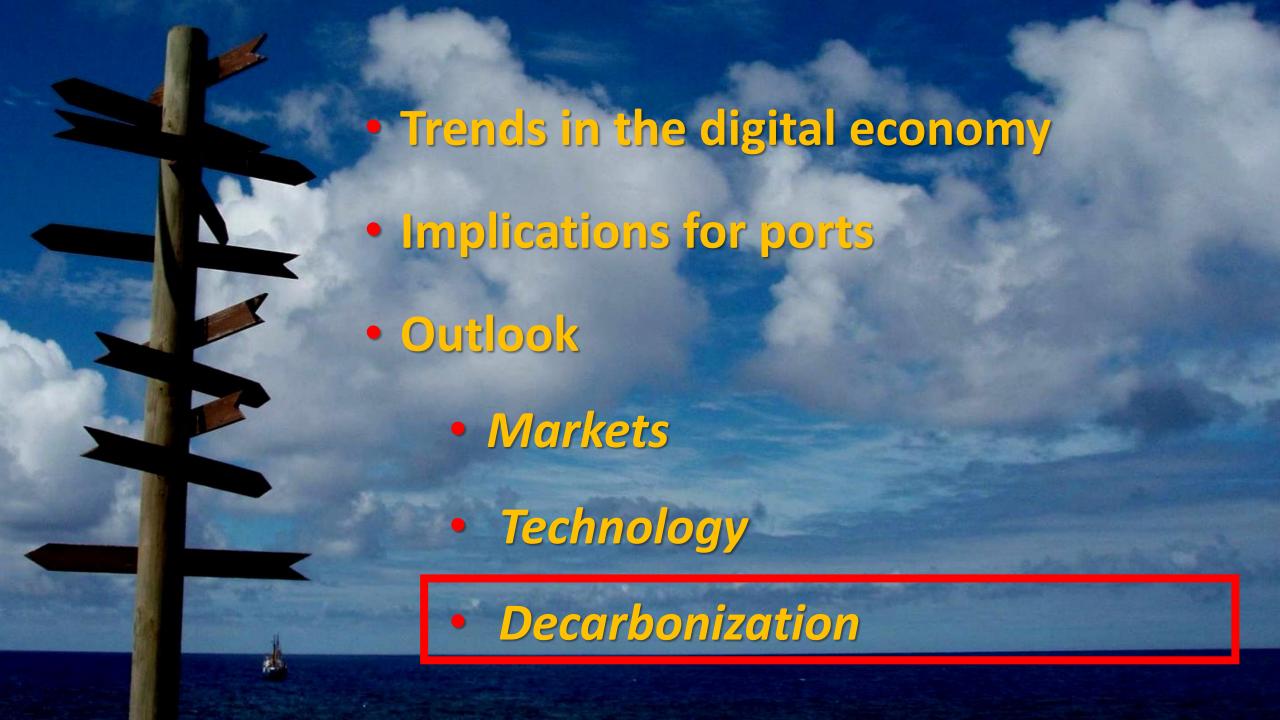
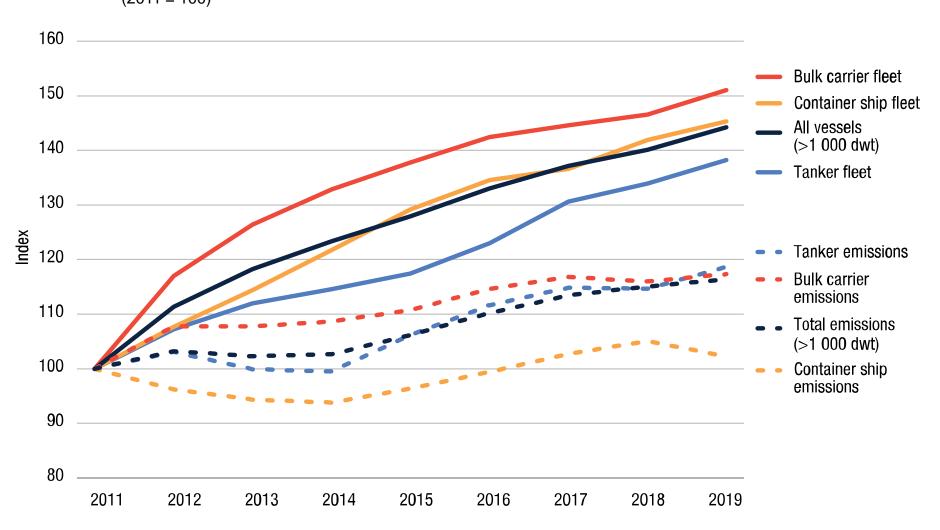


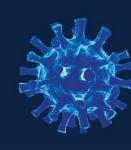
Figure 3.29 Comparison of dead-weight tonnage of respective fleet and carbon-dioxide emissions UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT from bulk carriers, container ships and tankers, 2011–2019 (2011 = 100)





OF MARITIME **TRANSPORT** 2020

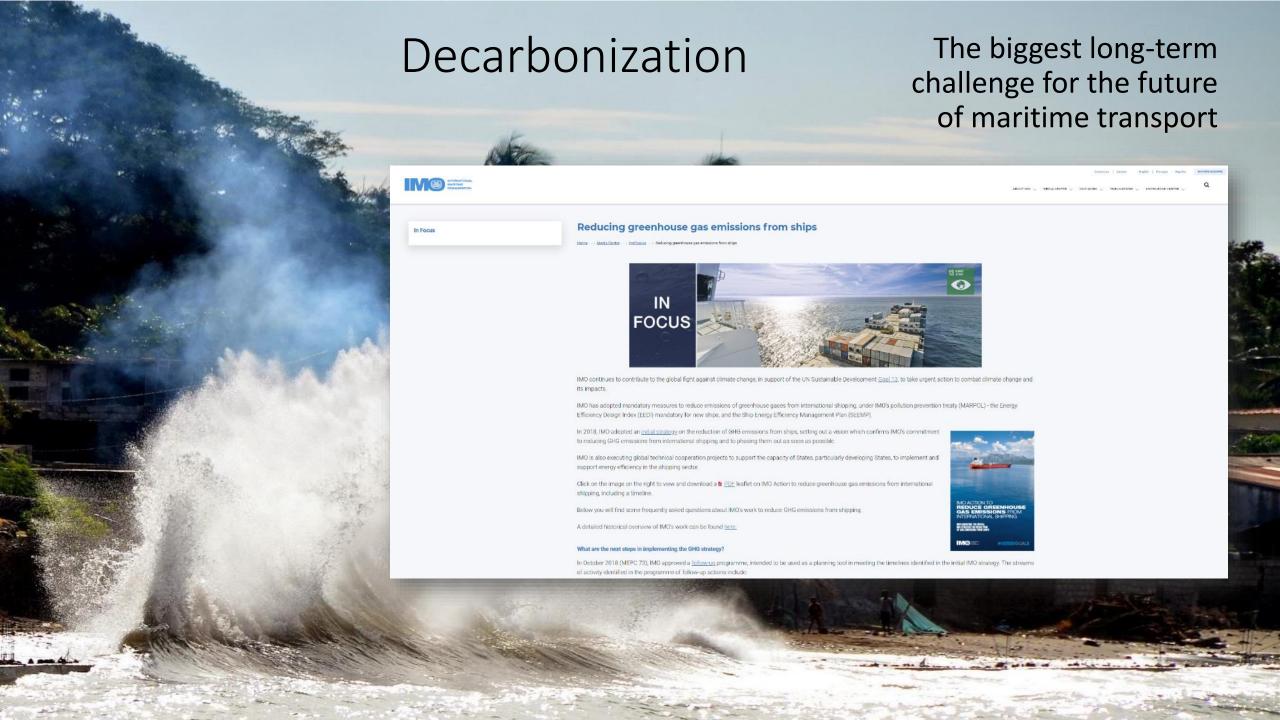
REVIEW





Source: UNCTAD, based on Marine Benchmark. http://unctad.org/RMT





To achieve decarbonization we need

- A predictable, multilateral regulatory framework. And we need it fast.
- The right price for carbon
- Digitalization will help improve energy efficiency

Implications for ports? Opportunities!

Seizing opportunities for developing countries in providing zero-carbon fuels to global shipping

IMO-UNCTAD SIDE EVENT AT COP26:

Date: Wednesday, 10 November 2021

Time: 15:00-16:15 (UTC)

Place: Blue Zone, Derwentwater room (44 persons max - on a first-come, first-served basis)

Virtual observers need to register through the COP26 virtual platform, <u>here</u>.

Decarbonization of international shipping requires a rapid shift from today's predominant use of fossil fuels to zero-carbon alternatives.

This side event explores the opportunities for developing countries in producing and supplying zero-carbon marine fuels to ships in their ports.

Featuring

Mr. Jose Matheickal (Moderator)
Chief, Department of Partnerships and Projects, IMO

Ms. Isabelle Durant

Deputy Secretary-General, UNCTAD

Mr. Binyam Reja (t.b.c.)

Acting Global Director for Transport, and Manager of Global Unit in the Transport Global Practice, World Bank

Ms. Johannah Christensen

CEO, Global Maritime Forum

Mr. Basileo Dias Araujo

Deputy for Maritime Sovereignty and Energy, Coordinating Ministry for Maritime Affairs and Investment, Indonesia Ms. Nancy Wakarime Karigithu (t.b.c.) Principal Secretary, State Department for Maritime and Shipping Affairs, Kenya

M. Jak Koseff

Senior Advisor: Economic Acceleration & Special Projects, Office of the MEC for Economic Development, Environment, Agriculture & Rural Development, Gauteng Provincial Government, South Africa

Mr. Camilo Avilés Arias

Unit Head for New Energy Carriers, Division for Fuels and Energy Carries, Ministry of Energy, Chile





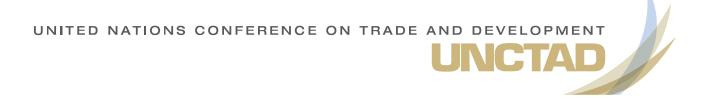






#IMOatCOP26





Digitalization for the future of ports