

Indiana University Bloomington

UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT



UNCTAD: Review of Maritime Transport 2023

Jan Hoffmann Head, Trade Logistics Branch





Welcome to the WTO! WTO Director-General @NOlweala announced her four Deputy Directors-General. More about these appointments here: wto.org/english/news_e...





The second second second



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To **#BuildBackBetter**, the world needs updated information on how **#COVID19** is impacting our economies, societies and environment.

@UNCTAD's new portal provides data and analysis for over 25 indicators. bit.ly/3uv0rFq



63

International Labour Organization 🔗 @ilo · 24 Sep 2020 · · · Nearly 400,000 seafarers continue to be stranded at sea as a result of the current #COVID19 pandemic. Their human rights are in need of our urgent action.



80 per cent of world trade is transported by sea

World Health Organization (WHO) 🤣 @WHO · 3h

#COVID19 has highlighted the urgency for countries to cooperate & better prepare for future pandemics.

The www WHO Hub for Pandemic & Epidemic Intelligence will be a global center using () data to detect & monitor risks worldwide.

👉 bit.ly/3b3d0QR



"Hoffmann Shipping":

- ✓ Owner: German
- ✓ Flag: Antigua and Barbuda
- ✓ Freight agent: Netherlands
- ✓ Seafarers: Poland
- ✓ Crewing agent: Cyprus
- ✓ Cargo: Turkey
- ✓ to Canada
- ✓ Fuel: Spain
- ✓ Insurance: United Kingdom
- ✓ Shipyard: Portugal
- ✓ Captains' favourite drink: Ireland



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Debate: Consensus building



Deliver: Technical assistance

UNCTAD TRADE LOGISTICS

Research	Consensus Building	Technical Assistance and Capacity Building
Review of Maritime Transport		
Liner Shipping Connectivity Index		
Statistics		
Data sets on transport costs		
Country Profiles		



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UNCTAD TRADE LOGISTICS

Research	Consensus Building	Technical Assistance and Capacity Building
Review of Maritime	Commissions and	
Transport	UNCTAD Expert	
	Meetings	
Liner Shipping		
Connectivity Index	Regional collaboration e.g. AfCFTA, RECs	
Statistics		
	Support to processes at	
Data sets on transport	WTO or IMO	
costs		
Country Profiles		



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UNCTAD TRADE LOGISTICS

Research	Consensus Building	Technical Assistance and Capacity Building
Review of Maritime Transport Liner Shipping Connectivity Index	Commissions and UNCTAD Expert Meetings Regional collaboration	Projects on building capacities of developing countries to shift towards sustainable freight
Statistics	e.g. AfCFTA, RECs	transport.
Data sets on transport costs	Support to processes at WTO or IMO	Programmes on trade facilitation, port reforms, Customs automation, climate
Country Profiles		change adaptation – to help mitigate the impact of climate change minion



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2023

Towards a green and just transition

Presentation of the REVIEW OF MARITIME TRANSPORT 2023

Towards a green and just transition





THE STORY SO FAR

Share (per cent) of transport and inventory holding expenditure within total logistics expenditure, United States



Source: UNCTAD, based on data from CSCMP Annual State of Logistics Report. Presented in Issues Note on Geography of Trade, TDB

World Seaborne Trade Average Haul Miles



Source: Clarksons Research

Seaborne trade: share of developing countries 70% 60% 50%

Source: Review of Maritime Transport















SIMULATED IMPACT OF CONTAINER FREIGHT RATE SURGES Hardest hit will be SIDS



SIMULATED IMPACT OF CONTAINER FREIGHT RATE SURGES Hardest hit will be SIDS



Sources: UNCTAD calculations based on the WIOD (accessed 7–8 June 2021) developed by Timmer et al., 2015, Clarksons Research, *Shipping Intelligence Network* (accessed 2 September 2021), UNCTADstat (accessed 24 June 2021), and the Centre d'Études Prospectives and d'Informations Internationales, *Gravity Database* (accessed 21 May 2021).

Note: The impacts of the container freight rate surge on prices are based on a 243 per cent increase in the CCFI between August 2020 and August 2021. The simulated impacts on price levels are long-term impacts, i.e., the simulation assumes that the current container freight rate surge and the corresponding increases in production costs are fully passed to consumers. See technical note 2 for the detail of the methodology.



Source: UNCTAD, based on data from Clarksons Shipping Intelligence Network,

Share (per cent) of transport and inventory holding expenditure within total logistics expenditure, United States, 1980 - 2021



Source: UNCTAD, based on data from CSCMP Annual State of Logistics Report. Presented in Issues Note on Geography of Trade, TDB



Chart prepared by JP Rodrigue

World Seaborne Trade Average Haul Miles



Source: Clarksons Research

World Seaborne Trade Average Haul Miles



Source: Clarksons Research

Seaborne trade: share of developing countries



Loaded Unloaded

Seaborne trade: share of developing countries



Loaded Unloaded



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REVIEW OF MARITIME TRANSPORT

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2) Demand, Supply, and Markets

3) Ports and Maritime Connectivity

4) Challenges – and Opportunities



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1) The Energy Transition

2) Demand, Supply, and Markets

3) Ports and Maritime Connectivity

4) Challenges – and Opportunities



Total CO2 emissions by vessel types, tons, January 2012–March 2023



Source: UNCTAD, based on data provided by Marine Benchmark, July 2023.

Note: RORO means roll-on/roll-off vehicle carrier.



World fleet, three main vessel types, monthly CO2 emissions per ton-mile, January 2012–March 2023

(Gram/ton*nautical mile)



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Source: UNCTAD, based on data provided by Marine Benchmark, July 2023.

Chapter 3 Decarbonizing shipping *Review of Maritime Transport 2023*

CO2 emission intensity of container ships by ship size, grams per ton-mile, 2021



Cumulative change from January 2012 in CO2 emission intensity, and contribution of ship size change of container ships, grams per ton-mile





Review of Maritime Transport 2022





2) Demand, Supply, and Markets

3) Ports and Maritime Connectivity

4) Challenges – and Opportunities



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International maritime trade, 2003–2024





Source: UNCTAD secretariat, based on Clarksons Research, Shipping Intelligence Network time series (July 2023).

Notes: 2023 and 2024 are forecast. "Dry bulk" includes major bulks (iron ore, coal and grain) and minor bulks (metals, minerals, agribulks and softs); "Oil" encompasses crude oil and refined oil products; "Other dry" is an estimation of all other dry trade that is not included in major/minor bulks, for instance, cars and other vehicles, roro and project cargoes, as well as reefer cargoes that don't go in containers and breakbulk cargoes that are not in the minor bulk category; "gas" includes LPG, LNG and ammonia.


Seaborne trade growth, tons and ton-miles, 2000 – 2024

(percentage annual change)



Source: UNCTAD secretariat, based on Clarksons Research, Shipping Intelligence Network time series (July 2023). Note: 2023 and 2024 are forecast.

Chapter 1 International maritime trade

Review of Maritime Transport 2023



Distance travelled per ton of maritime cargo, 1999–2024

(Nautical miles)



Source: UNCTAD secretariat, based on Clarksons Research, Shipping Intelligence Network time-series (July 2023). *Notes:* 2023 and 2024 are forecast. "Oil" includes crude oil and refined oil products.

Chapter 1 International maritime trade *Review of Maritime Transport 2023*



World tonnage on order, million dead weight tons and percentage change, 2005–2023



Source: UNCTAD calculations, based on data from Clarksons Research, 2023.

Notes: Propelled seagoing merchant vessels of 100 GT and above. Beginning of year figures.







2) Demand, Supply, and Markets

3) Ports and Maritime Connectivity

4) Challenges – and Opportunities



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Time in port, world median, in days, 2018 S1–2022 S2



Source: UNCTAD, based on data provided by MarineTraffic.

Note: Ships of 1 000 GT and above.

Chapter 4 Port performance and maritime trade and transport facilitation *Review of Maritime Transport 2023*





Number of operators and largest ships, average per country, 2006 Q1–2023 Q2



--- Number of operators --- Largest ship

Source: UNCTAD, based on data provided by MDS Transmodal.

Note: Average number of operators is calculated from the country data. For countries with no liner shipping connections, their values are assumed to be zero. Countries with no liner shipping connections for the entire period are excluded from the averages. Largest ship reflects the largest ship being serviced globally.





Average number of operators, regional average, 2006 Q1–2023 Q2

Source: UNCTAD, based on data provided by MDS Transmodal.

Note: Average number of operators is calculated from the country data. For countries with no liner shipping connections, their values are assumed to be zero. Countries with no liner shipping connections for the entire period are excluded from the averages.



Number of active container ports, regional totals, 2006 Q1–2023 Q2



Source: UNCTAD, based on data provided by MDS Transmodal.



Container Port Performance Index values 2022, ports' regional distributions



Source: World Bank and S&P Global Port Performance Program.

Note: Ranked by the Administrative Approach scores. The middle line represents the median, the top and bottom lines of the boxes represent the first and third quartile, and the top and the bottom lines (the whiskers) represent the minimum and the maximum values (excluding outliers).



Average waiting times of container ships at port in hours, monthly, January 2016–July 2023



Source: UNCTAD, based on data provided by Clarksons Research.

Notes: Waiting time estimated based on the time between vessel first entering an anchorage associated with a port group (or port where vessel has not been seen in an anchorage shape), and first entering a berth within a port.



Country Container Port Performance Index values 2022 by implementation status of selected measures under the WTO Trade Facilitation Agreement



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Source: UNCTAD, based on data from the Container Port Performance Index 2022 and the WTO Trade Facilitation Agreement Facility.

Note: Country grouping implementation status based on the WTO TFA articles. Distributions showing port efficiency according to the 2022 Container Port Performance Index of the World Bank and S&P Global using the Administrative Approach scores. The middle line represents the median, the top and bottom lines of the boxes represent the first and third quartile, and the top and the bottom lines (the whiskers) represent the minimum and the maximum values (excluding outliers).



TWO KEY DEVELOMENTS

- 1. The 2020-2022 supply chain crisis motivated further digitalization.
- 2. Exponential technological progress in Al

THREE STAGES OF DIGITALIZATION

1. Optimization

Maximizing efficiency and reliability in existing processes

2. Extension

Moving beyond efficiency to capture new sources of value

3. Transformation

Reinventing logistics, trade and business models, based on data-driven revenue streams

Source and further reading: https://t.co/vbHAdYaSWf



1: OPTIMIZATION

Example: Port call optimization

"Port Call Optimization is about optimizing speed, draught and port stay, leading to lower costs, cleaner environment, more reliability and safety for Shipping, Terminals and Ports".



https://portcalloptimization.org/

2: EXTENSION

"Action opportunities"



| Unleashing the MARITIME potential of the global FORUM maritime industry DIGITAL DISRUPTION IN MARITIME Action opportunities 25 APRIL 2018, SINGAPORE & 31 MAY 2018, HAMBURG During 2018, the Global Maritime Forum in partnership with Rainmaking conducted workshops around o arising from distal innovation. One of the ambitions was to identify concrete action provotunities to table. During 2018, the Global Markime Forum in partnership with Rainmaking conducted workshops around opportunities arising from digital innovation. One of the ambitions was to identify conceste action opportunities to help improve the performance of the markime industry and thus contribute to a more sustainable industry in acconsult. Recisit and arising from dipital innovation. One of the ambitions was to identify concrete action opportunities to help improve to performance of the maritime industry and thus contribute to a more sustainable industry in economic, social and environmental terms. Inspired by the presentations and discussions on collaborative approaches from other industries and startups, participants started developing ideas for the maintime industry. Some of the key ideas will be shared here in a series where we address them one by one. The action opportunities vary in their focus, complexity and purpose. Some social be taken up immediately by a few partners working together while others would require cross-sectoral and multiyou to engage and respond back with feedback or interest in participation. Blockchain for cargo tracking Blockchain for cargo tracking Challenge, roday, the tracking or cargo in cases of insorrect delivery is nearly impossible. It is also hard to identify where in the chain the issue occurred. This is due to a number of missing mechanisms, e.g. reliable record of identity, transparent and verifiable trait of ownership and up to date cargo traceability information. riticipants hypothesised Blockchain can be used to solve some of these challenges by creating mutuable transparent and verifiable decentralized record around cargo documentation. Addition solution would include access to reliable information that can be used for risk management or electronic immutable transparent and verifiable decempaized record around cargo documentation. Additional benefits from such a solution would include access to reliable information that can be used for risk management or financial purposes, the creation of automated smart contracts around container documentation and a reduction of human gro Berriers: Implementing an early stage technology brings a number of risks, including cyber security, resistance to adoption and the need to retrain people to work with the new technology. There are also challenges related to regulation in particular related to the legal validity of electronic documents. ntation and a reduction of human errors Way forward: One way forward could be to build on existing blockchain initiatives and engage maritime stakehold developing commercial plots focusing on specific applications for instance related to the middlivery of cargo. Alternatively 2-3 industry by the demonstrate the value and feasibility. Afterwards the solution could be scaled commercially with multiple partners or become a non-profit infrastructure. Smart Capacity Management Platform Challonging: Today the capacity on board ships is not fully utilized since no mechanism exists to dynamically match capacity intrastructure etc. is required to transport the cargo than necessary, which increases operating costs and environmental impact. ns to solve Unleashing the potential of the global RAINMAKING maritime industry 06/09/18 Page 1

GLOBAL

Further reading: <u>http://globalmaritimeforum.org</u>



3: TRANSFORMATION

big think®

DISCOVER VIDEO BIG THINK FOR BUSINESS

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Human-like A.I. will emerge in 5 to 10 years, say experts

A survey conducted at the Joint Multi-Conference on Human-Level Artificial Intelligence shows that 37% of respondents believe humanlike artificial intelligence will be achieved within five to 10 years.

STEPHEN JOHNSON 26 September, 2018



Further reading: <u>https://www.linkedin.com/pulse/what-read-times-chatgpt-jan-hoffmann/</u>



WHAT IS THE IMPACT OF ARTIFICIAL INTELLIGENCE (AI) ON THE FUTURE OF INTERNATIONAL TRANSPORT AND LOGISTICS?

Al is expected to have a significant impact on the future of international transport and logistics in various ways.

7 key areas where Al can transform the industry



1. Optimized routes and scheduling

Al algorithms can analyze massive amounts of data to find the most efficient routes, considering factors such as fuel consumption, distance, traffic, and weather conditions. This will enable quicker, more cost-effective deliveries and reduce overall carbon emissions.



2. Autonomous vehicles and drones

Self-driving trucks, ships, and drones powered by AI will play a major role in transporting goods internationally.

Autonomous vehicles can operate 24/7 with minimal human intervention, improving productivity and reducing labor costs.

They can also lead to increased safety by reducing the likelihood of accidents caused by human error.



3. Demand forecasting and inventory management

Al-driven systems can analyze historical data, market trends, and other factors to predict demand and optimize inventory levels.

This enables businesses to reduce stockouts, overstocks, and warehousing costs, improving overall supply chain efficiency.



"TRAMITES HACIA EL SALVADOR"

BUILTE

4. Enhanced customs clearance

Al-powered systems can facilitate faster, more accurate customs clearance by automatically classifying goods, calculating duties, and identifying potential risks or violations.

This can reduce the time spent in customs, leading to faster deliveries and reduced costs.

5. Smart ports and warehouses

Al can optimize port and warehouse operations by automating tasks such as container stacking, loading, and unloading.

Robotic systems powered by AI can perform these tasks more efficiently, reducing dwell times and improving overall throughput.





6. Improved supply chain visibility

Al can provide real-time updates on the status of shipments, allowing businesses to track their goods and make data-driven decisions.

This increased visibility can help prevent delays and improve customer satisfaction.

7. Enhanced security

Al can analyze patterns and detect potential threats to the supply chain, such as cyberattacks or cargo theft.

By identifying these risks early, businesses can take preventative measures to protect their assets.



8. Al can also help prepare ppt presentation for the CSA ⁽ⁱ⁾

Source:

https://chat.openai.com/?model= gpt-4 Al is expected to have a significant impact on the future of international transport and logistics in various ways. Some of the key areas where Al can transform the industry include:

- Optimized routes and scheduling: Al algorithms can analyze massive amounts of data to find the most efficient routes, considering factors such as fuel consumption, distance, traffic, and weather conditions. This will enable quicker, more costeffective deliveries and reduce overall carbon emissions.
- 2. Autonomous vehicles and drones: Self-driving trucks, ships, and drones powered by Al will play a major role in transporting goods internationally. Autonomous vehicles can operate 24/7 with minimal human intervention, improving productivity and reducing labor costs. They can also lead to increased safety by reducing the likelihood of accidents caused by human error.
- 3. Demand forecasting and inventory management: Al-driven systems can analyze historical data, market trends, and other factors to predict demand and optimize inventory levels. This enables businesses to reduce stockouts, overstocks, and warehousing costs, improving overall supply chain efficiency.
- 4. Enhanced customs clearance: Al-powered systems can facilitate faster, more accurate customs clearance by automatically classifying goods, calculating duties, and identifying potential risks or violations. This can reduce the time spent in customs, leading to faster deliveries and reduced costs.
- 5. Smart ports and warehouses: Al can optimize port and warehouse operations by automating tasks such as container stacking, loading, and unloading. Robotic systems powered by Al can perform these tasks more efficiently, reducing dwell times and improving overall throughput.
- Improved supply chain visibility: AI can provide real-time updates on the status of shipments, allowing businesses to track their goods and make data-driven decisions. This increased visibility can help prevent delays and improve customer satisfaction.
- Enhanced security: AI can analyze patterns and detect potential threats to the supply chain, such as cyberattacks or cargo theft. By identifying these risks early, businesses can take preventative measures to protect their assets.

In summary, the impact of AI on international transport and logistics is poised to improve efficiency, reduce costs, increase safety, and enhance overall supply chain performance. However, it's important to consider potential challenges such as job displacement, regulatory issues, and data security concerns. As AI technologies continue to develop, the industry will need to adapt to these changes to fully harness the benefits AI has to offer.

Der technologische Fortschritt wird nie so langsam sein wie heute

WTO OMC

WHO LEADS THE IT REFORMS IN YOUR COMPANY?





TRANSPORT IN TIMES OF COVID19

A 10-point action plan

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



TRADE A TRADE-OFF BETWEEN CONTROLS AND TRADE FACILITATION?



- The negotiation, ratification and implementation of conventions take time
- Need to commit to whatever is the best [future] technological solution



OUT OF DATE ALREADY?

 In the future the concept of "copies" versus "originals" as per Article 10.2 TFA will become obsolete as processes focus on data rather than on documents.



A DYNAMIC DIMENSION IN THE TFA

 In the long term, Article 10.1 will gain in importance, it does not prescribe any specific technological solution.



A DYNAMIC DIMENSION IN THE TFA

- In the long term, Article 10.1 will gain in importance, it does not prescribe any specific technological solution.
- Progressively, various provisions will become antiquated or obsolete and we will just want to *minimize* "the incidence and complexity of import, export, and transit formalities"; continuously "*review*" requirements; keep "*reducing* the time and cost of compliance for traders and operators"; and always choose "the *least* trade restrictive measure" (10.1 TFA)



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1) The Energy Transition

2) Demand, Supply, and Markets

3) Ports and Maritime Connectivity

4) Challenges – and Opportunities


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Climate Change

Who pays today?

- Coastal populations in Bangladesh whose lands are flooded
- Investors in the Bahamas whose properties are devastated by more frequent hurricanes
- Farmers in Mali whose crops fail after another dry season
- Families on Pacific islands whose homes are disappearing
- Swiss ski resorts left without snow



The polluter should pay.

And the polluter should be given three options.

- 1. Don't pollute / pollute less: Go slower, use clean fuel, near-source
- 2. Clean up and help adapt: Filter, build flood walls, invest in ports, construct hurricane resilient cranes, ...
- **3. Compensate:** Help those who are negatively affected



"MARKET BASED MEASURES" = "ECONOMIC MEASURES"

Called "MBMs": Measures that place a price on greenhouse gas (GHG) emissions. This can, for example, be a levy, or a market price under a carbon trading scheme.

https://www.imo.org/en/OurWork/Environment/Pages/Market-Based-Measures.aspx

INTERNATIONAL MARITIME ORGANIZATION





TECHNICAL CO-OPERATION COMMITTEE 41st session Agenda item 7(c)

One possible source of autonomous sustainable financing is the "internalisation of costs". That means wherever it is administratively feasible it should be made sure mat me pointer pays either for the prevention, clean-up or compensation for costs that are caused by his economic activity. *If* this can be assured the potential "polluter" will usually choose the cheapest mix of prevention, clean-up and/or compensation. Whenever others (e.g. individuals, donors, countries, companies) pay for the prevention, clean-up or compensation, then the potential polluter will rely on this "payment" as much as possible. If, for example, the public pays for "compensation" companies can free ride and will have less incentives to invest in "prevention" or "clean-up"; or if the public arranges the "clean-up" companies will need to pay fewer insurance premiums to cover potential "compensation". It must be stressed that the *total* costs will usually be minimised if each company had to choose the cheapest mix of mechanisms herself.

A LEVY ON CO2 ?



A LEVY ON CO2 ?

DHAKA-GLASGOW DECLARATION OF THE CVF





7. Maritime Emissions: We recognize the critical importance of shipping to our states and to prioritize and support all efforts to advocate for this sector. We call upon further urgent discussion, study and work of the IMO for establishing a mandatory GHG levy on international shipping to ensure that IMO emission measures are fully aligned with a 1.5°C pathway following IPCC AR6. We recognize the need for the shipping transition to next generation vessels and fuels to be equitable and benefit all states. We support that the majority of the levy's revenues be employed as additional financial support for urgent climate actions, particularly by the vulnerable developing countries. We urge members to consider adopting ambitious targets in domestic maritime emissions for a transition to zero emissions that leaves no one behind.

Afghanistan, Bangladesh, Barbados, Benin, Bhutan, Burkina Faso, Cambodia, Colombia, Comoros, Costa Rica, Democratic Republic of the Congo, Dominican Republic, Eswatini, Ethiopia, Fiji, the Gambia, Ghana, Grenada, Guatemala, Guinea, Guyana, Haiti, Honduras, Kenya, Kiribati, Lebanon, Liberia, Madagascar, Malawi, Maldives, Marshall Islands, Mongolia, Morocco, Nepal, Nicaragua, Niger, Palau, Palestine, Papua New Guinea, Philippines, Rwanda, Samoa, Saint Lucia, Senegal, South Sudan, Sri Lanka, Sudan, Tanzania, Timor-Leste, Tunisia, Tuvalu, Uganda, Vanuatu, Viet Nam, Yemen.

HOW MUCH IS IT?



229 000 000 * 3.15 * 100 = 72 135 000 000 \$ per year total carbon levy

Technological progress will never be as slow as today

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The decarbonization of maritime transport: Delaying me transition is more costly than the transition



UNICTAE



2) Demand, Supply, and Markets

3) Ports and Maritime Connectivity

4) Challenges – and Opportunities



The starting point



Volume

Decarbonization leads to a slightly higher supply curve



Uncertainty leads to a shift of the supply curve to the left



Volume

Opportunity 1: Developing countries as providers of alternative fuels



"... here is an opportunity. Zerocarbon shipping represents a business and development opportunity for several developing countries. In the past, the bunker fuel market was a very non-inclusive market: countries with large oil reserves could participate, others could not." (UNCTAD DSG Isabelle Durant)

Opportunity **2**: With the generated funding, invest in improved trade logistics

SIMULATED IMPACT OF IMPROVING MARITIME TRANSPORT COST DETERMINANTS

Simulation is conducted using the new dataset developed by UNCTAD and the World Bank





https://unctad.org/RM

Opportunity 3: Decarbonize shipping

The maritime industry has the historical opportunity to be ahead of the curve, as it can shape one global multilateral framework; other industries need to implement many national frameworks, where there is the risk of free riders and no global enforcement



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Towards a green and just transition





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THANK YOU!

- <u>http://unctad.org/rmt</u>
- <u>http://stats.unctad.org/Maritime</u>

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Contact: rmt@unctad.org





