



Global Supply Chain **Forum**

Barbados 21-24 May 2024

The UNCTAD-World Bank Trade-and-Transport Dataset

New opportunities to analyze the linkages between international transport,
international trade and emissions

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The idea

- Measuring international transport from the trade side
- Recording freight transport alongside the international trade it enables





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The implementation

- Collaboration between UNCTAD and the World Bank
- UN Comtrade data combined with global transport network models and augmented by econometric modelling
- Based on trade files from 170 UN Comtrade reporting countries, of which up to 80 reported breakdown by mode and up to 25 joint CIF and FOB values
- Beta version launched in 2020



[Hoffmeister, Halim, Lazarou, Barnat, Cristallo, Englert, Hoffmann \(2022\):
Developing a global transport costs dataset for international trade,
UNCTAD Research Papers, 85.](#)





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The product

- Bilateral trade and transport from 225 origin countries to 170 destination countries, detailed by 1200 product groups (HS 2017) and 4 modes of transport, from 2016 to 2021
- Covering 92% of global merchandise trade in 2021
- Aggregations to 70 groups of economies and 100 broader product groups
- Indicators: trade value (FOB), trade volume, unit value, transport work, transport expenditure, freight rates per \$, per ton, per \$-km and per ton-km
- Online on UNCTADstat:

<https://unctadstat.unctad.org/datacentre/dataviewer/US.TransportCosts>





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Statistics
Empowering development through data

About Data » Country profiles » Data exploration » Infographics Documentation »

Logi

Release calendar Data centre Nowcasts Help

Trade-and-Transport Dataset (experimental), annual, 2016 onward i Last updated

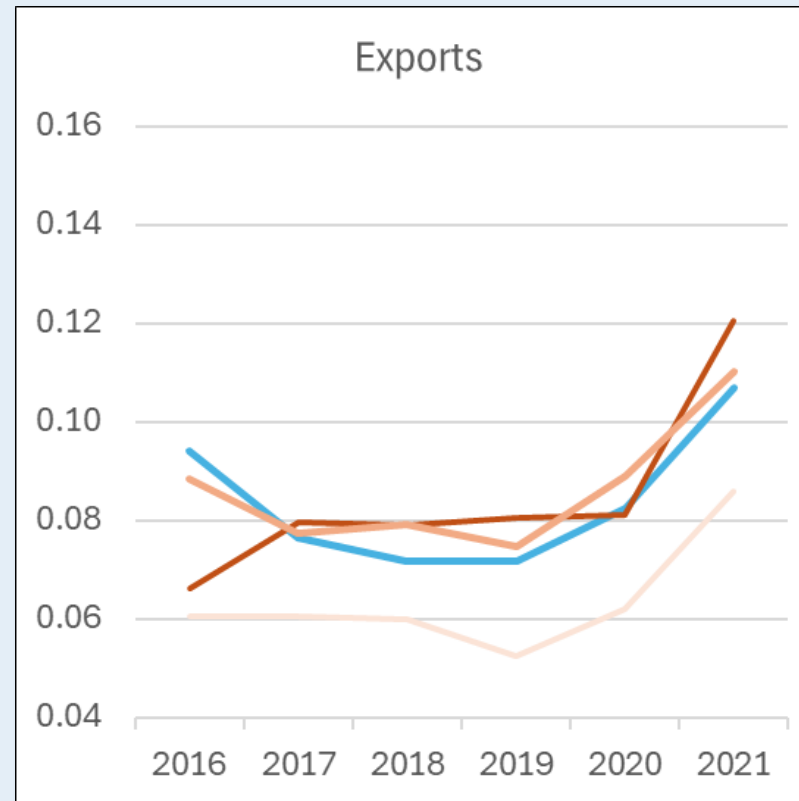
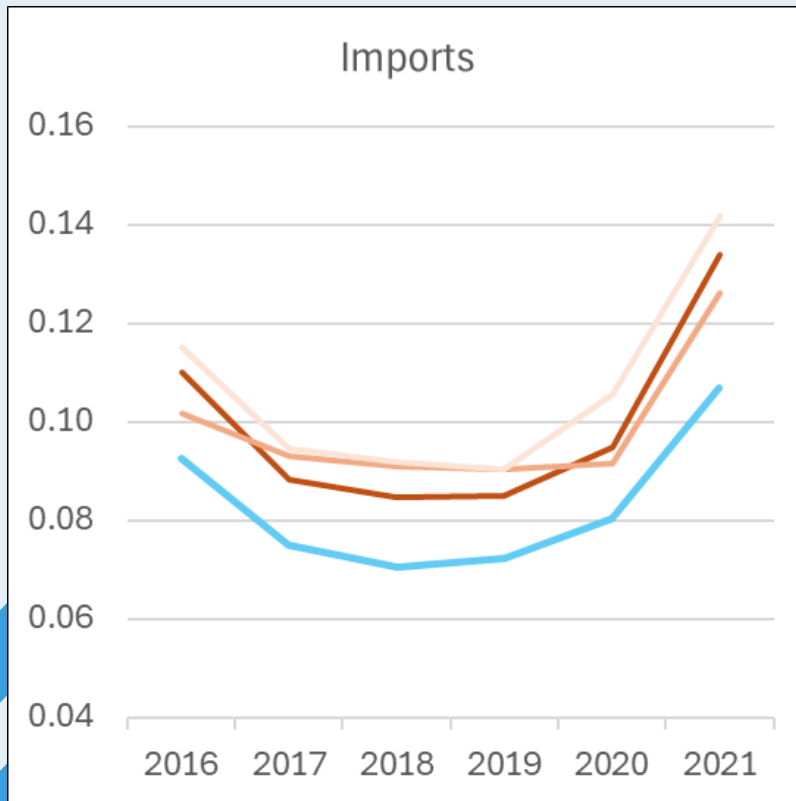


PAGE FILTERS	TRANSPORT MODE		ORIGIN		PRODUCT		INDICATOR		DESTINATION	
	Sea		World		Total of all commodities		Ad-valorem freight rate		Select DESTINATION	Go
YEAR	2016	2017	2018	2019	2020	2021				
DESTINATION										
> Individual economies					
▼ World		(7) 0.101	(7) 0.079	(7) 0.075	(7) 0.075	(7) 0.085	(7) 0.111			
▼ Africa		(7) 0.130	(7) 0.109	(7) 0.110	(7) 0.113	(7) 0.124	(7) 0.167			
> Northern Africa		(7) 0.126	(7) 0.103	(7) 0.100	(7) 0.112	(7) 0.116	(7) 0.156			
▼ Sub-Saharan Africa		(7) 0.135	(7) 0.114	(7) 0.118	(7) 0.120	(7) 0.151	(7) 0.199			
> Eastern Africa		(7) 0.138	(7) 0.115	(7) 0.107	(7) 0.117 Experimental	(7) 0.128	(7) 0.171			
> Middle Africa		(7) 0.153	(7) 0.121	(7) 0.123	(7) 0.118	(7) 0.133	(7) 0.186			
> Southern Africa		(7) 0.129	(7) 0.106	(7) 0.098	(7) 0.108	(7) 0.108	(7) 0.155			
> Western Africa		(7) 0.128	(7) 0.113	(7) 0.124	(7) 0.125	(7) 0.166	(7) 0.223			
▼ Americas		(7) 0.090	(7) 0.070	(7) 0.070	(7) 0.049	(7) 0.079	(7) 0.107			
> Northern America		(7) 0.094	(7) 0.073	(7) 0.071	(7) 0.046	(7) 0.081	(7) 0.109			



Evidence from the data

Ad-valorem freight rate for maritime transport of SIDS' imports and exports



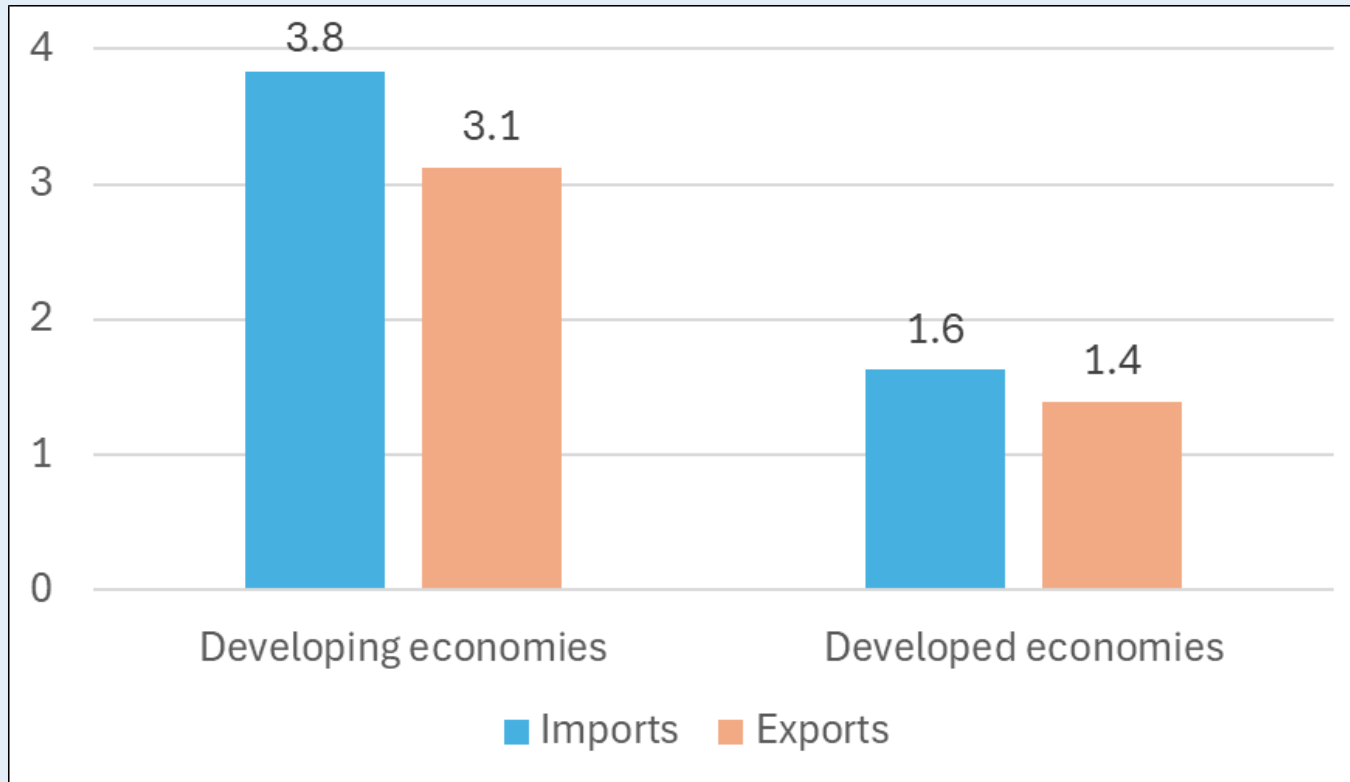


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Evidence from the data

Maritime transport work (ton-km) per dollar of trade, 2021





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Thank you!

