

United Nations Economic Commission for Africa

Implications of the African Continental Free Trade Area for demand of Maritime Transport Infrastructure and Services



Mombasa, Kenya 05th May 2023 Outline

- Research questions
- African Continental Free Trade Area (AfCFTA) in brief
- AfCFTA / Infrastructure Development Scnarios
- Maritime Transport Sector
- Multimodal Transport Comparisons
- Investment opportunities
- Key Messages

ECA's research unpacks AfCFTA investment opportunities in the transport sector by answering the following questions

- How will implementation of AfCFTA affect demand for maritime transport infrastructure and services?
- What would be the demand for different modes of transport, and what are the implications for investment in infrastructure development?
- What would be the infrastructure and equipment needs for different transport modes?

Research adds value by identifying infrastructure and equipment needs to support investment decisions **Objective 1:** Infrastructure needs in scenario where AfCFTA is implemented

Output 1: Criticality analysis of existing and planned road and railway network, airports, and maritime ports **Objective 2:** Equipment needs in scenario where AfCFTA is implemented

Output 2: Estimation of the truck fleet, aircraft fleet, vessel fleet, train fleet

+ Growth in freight movement depends on time horizon, implementation of AfCFTA and planned infrastructure projects + S2 is optimal from an AU policy perspective

S1 max ambition max ambition (with FTA) (with FTA) Infrastructure Infrastructure do-nothing do-everything **S3** baseline baseline (without FTA) (without FTA) Infrastructure Infrastructure do-nothing do-everything

Infrastructure

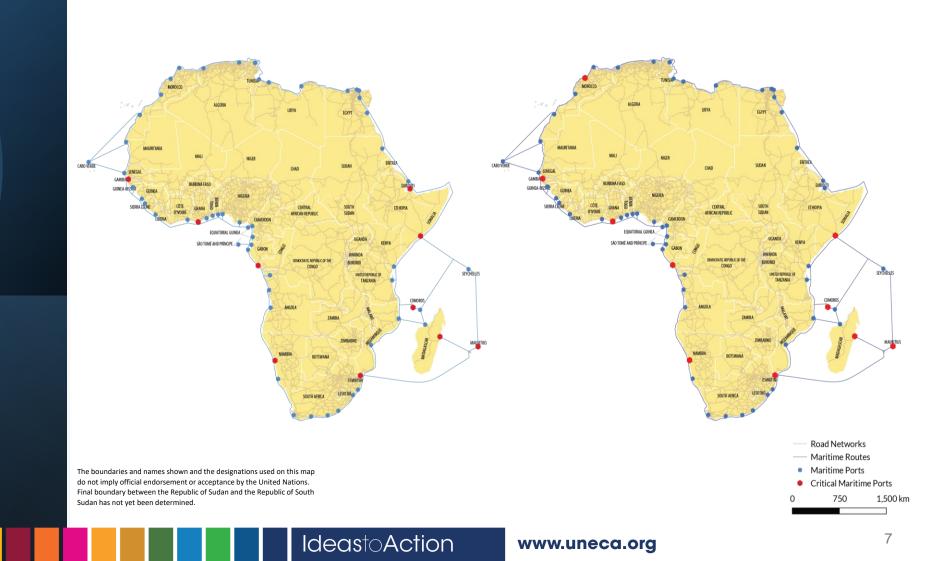
IdeastoAction

-TA/economic development **S2**

S4



Critical ports with current network plus planned projecst



Africa's Maritime Transport Infrastructure

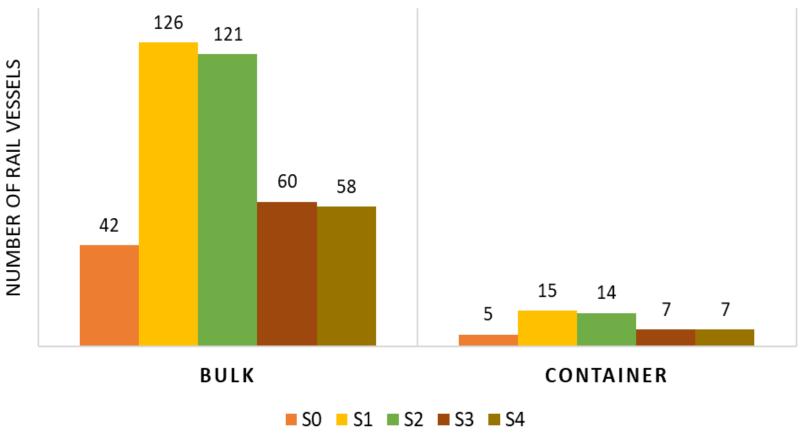
Study on AfCFTA

Implementing AfCFTA would double maritime freight from 58 to 131.5 million tonnes

Study on AfCFTA

- Africa's maritime network includes 142 links connecting 65 ports; accounts for 22.1% of intra-African freight transport
 - ✓ Share will increase by 0.6% to 22.7% if both AfCFTA and planned infrastructure projects are implemented
 - ✓ Will increase by 1.5% if AfCFTA is implemented but planned projects are not
- Maritime ports that require upgrades (critical ports) are located in: Central Africa (Gabon), Western Africa (Ghana, Gambia), Eastern Africa

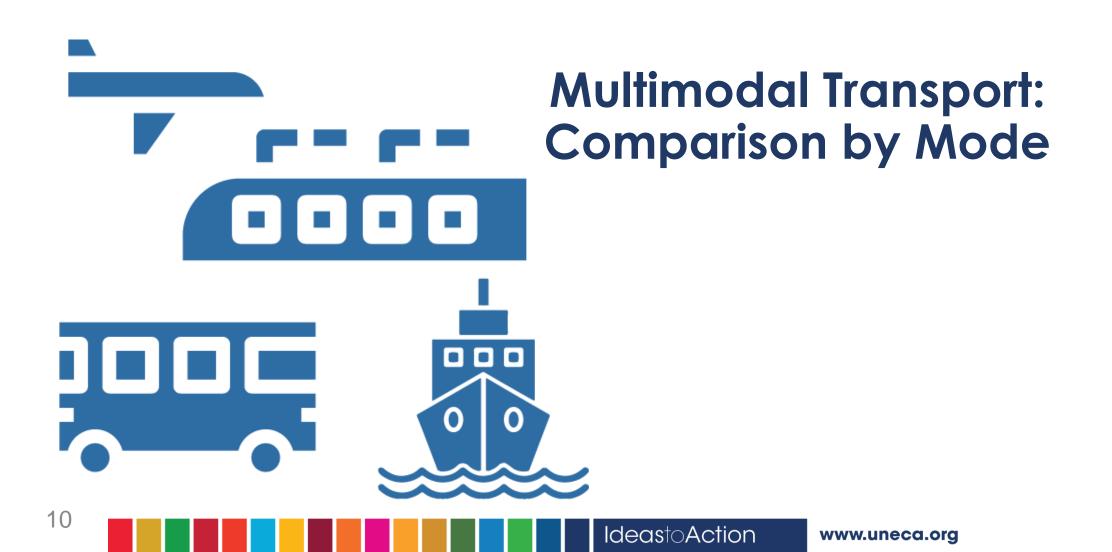
(Somalia, Cerrichtion Mauriting) and Southern ⁸



MARITIME MODE

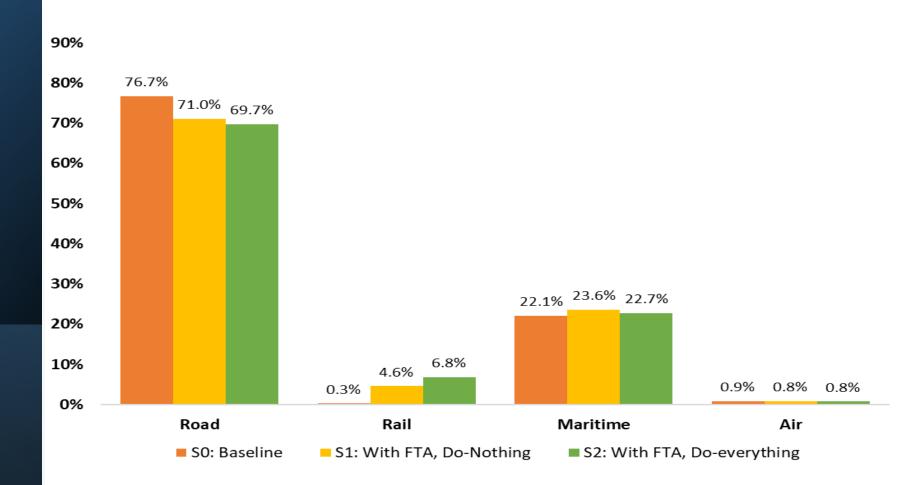
Number of vessels according to the scenario by type of load.

AfCFTA requires 126 vessels for bulk cargo and 15 vessels for container cargo by 2030. This reduces to 121 and 14 vessels respectively if planned infrastructure projects are also implemented



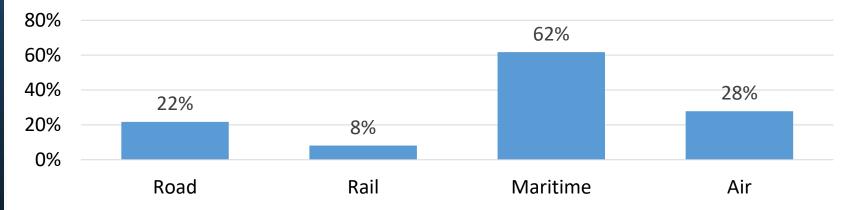
+ Roads currently carry the lion's share of freight in Africa

+ AfCFTA provides an opportunity to build Africa's railway network

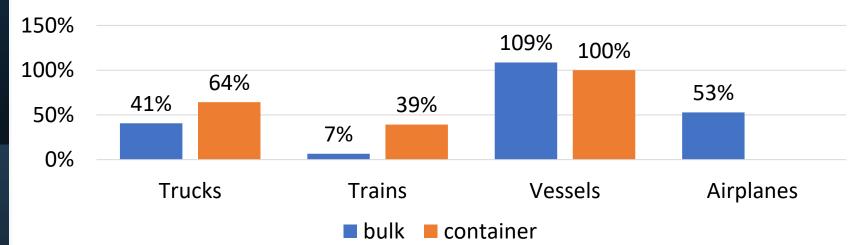


AfCFTA would increase intra-Africa freight demand by 28%; demand for maritime freight will increase the most

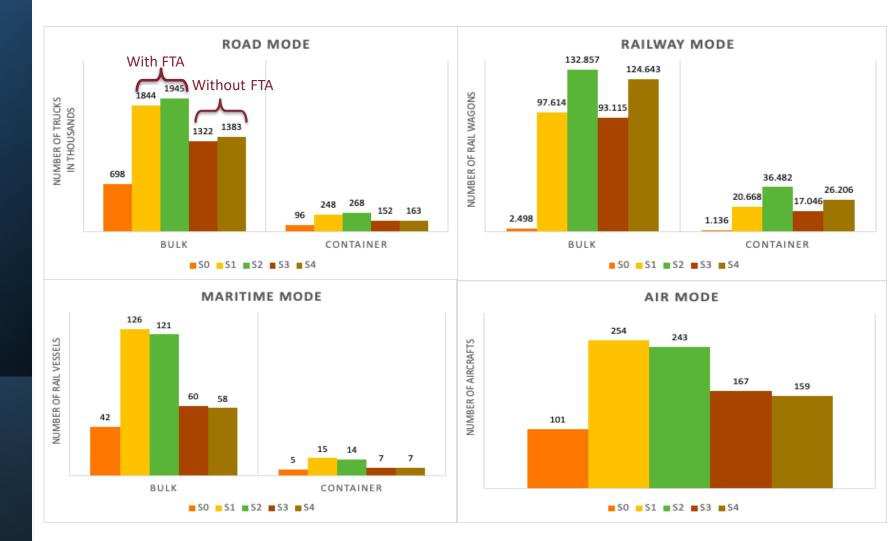
% change in demand (tonnes) - With FTA vs Without FTA (planned infrastructure implemented, 2030)



% change in fleet needs - With FTA vs Without FTA (planned infrastructure implemented, 2030)



AfCFTA would increase transport equipment needs significantly for all modes of transport (1)



AfCFTA would increase transport equipment needs significantly for all modes of transport (2)



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Airport and Maritime Port Infrastructure

Location of critical maritime ports

- Central Africa (Gabon)
- Western Africa (Ghana, Gambia)
- Eastern Africa (Somalia, Comoros, Mauritius)
- Southern Africa (Mozambique, Madagascar, Namibia).

Unit	Truck	Railway wagon	Vessel	Aircraft
Bulk	1,945,141	132,857	121	243
Container	268,438	36,482	14	-

Number of equipment required by transport mode if AfCFTA and planned infrastructure are implemented

Estimated costs for equipment required by transport mode (million USD)

Parameter	Trucks	Rail wagons	Vessels	Airplanes
Bulk (million USD)	291,771.2	26,571.4	4,235	25,758
Container (million USD)	53,687.6	9,120.5	420	

Regional Investment **Opportunities**

- Expected high demand for trucks in West and Southern Africa
- Expected high demand for rolling stock in West Africa, and North Africa
- Expected high demand for aircraft in West Africa, North Africa and Southern Africa
- Expected high demand for vessels in North Africa, East Africa and West Africa. **IdeastoAction**

- The transport sector will strongly benefit from AfCFTA
- This benefit will be optimized if AfCFTA is accompanied by implementation of regional infrastructure projects
- The estimated cost of trucks required as a result of AfCFTA is US\$ 345 billion
- Key messages The estimated cost of aircrafts required as a result of AfCFTA is US\$ 25 billion
 - The estimated cost of rail wagons required as a result of AfCFTA is US\$36 billion
 - The estimated cost of vessels required as a result of AfCFTA is US\$ 4 billion

- Implementing AfCFTA and planned infrastructure projects would result in the need for 2,213,579 trucks, 169,339 rail wagons, 135 vessels and 243 aircraft
- Rail currently transports just 0.3% of total intra-Africa freight. This increases to 6.8% with the implementation of AfCFTA
- The estimated cost of equipment required by different transport modes to cope with AfCFTA is about U\$411 billion
- Investment opportunities in infrastructure development and fleet expansion vary across subregions for different modes of transport

Key messages





THANK YOU!