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The Barriers and Enablers of Shipping in Eastern Africa and the Indian Ocean Region

Exploring the strategic importance, infrastructure challenges, and digital transformation of key ports in the Indian Ocean region to boost regional and global trade.

Overview of the Presentation Structure

- 1 INTRODUCTION
- 2 GEOSTRATEGIC AND ECONOMIC IMPORTANCE OF PORTS
- **BARRIERS TO SHIPPING IN THE REGION**
- 4 SUSTAINABILITY AND GREEN PORT INITIATIVES
- 5 CONCLUSION





Strategic Importance of the Region and Its Economic Role

Indian Ocean remains critical to the security and stability of shipping lanes and trade routes, accounting for over one-third of the world's bulk cargo traffic and two-thirds of the world's oil shipments and ensuring global access to food, precious metals, and energy resources.





Barriers to Shipping and Logistics Efficiency

CAPACITY ISSUES

EXPANSION PROJECTS

CUSTOMS
MODERNIZATION
AND
REGULATORY
REFORMS

RAIL AND ROAD CONNECTIONS

- LONG TURN OVER TIMES
- HIGHER SHIPPING COSTS
- INABILITY TO HANDLE LARGER SHIPS

- ISSUES OF FINANCING
- FOREIGN INVESTMENT OPPORTUNITIES
- ABILITY TO HANDLE LARGER SHIPS
- SHOTER
 CLEARENCE
 TIMES WITH
 DIGITALIZATION
- LOWER COST OF BUSINESS
- OPTIMIZATION OF THE PORT'S TRANSPORT LINKS
- IMPROVED HINTERLAND ACCESS
- CONNECTIVITY OF LANDLOCKED NATIONS TO GLOBAL TRADE



RAIL AND ROAD CONNECTIONS



CONNECTIVITY
PROJECTS FUNDED BY
CHINA*

2019

Country	Project	Status	Funding	Companies
Kenya	Nairobi Mombasa	Completed	\$3.6 billion	China Road and
	SGR		China Export	Bridge
			Import Bank	Corporation
			(China ExIm Bank)	(CRBC)
			\$400 million	
			Kenya government	
	Nairobi Naivasha	50% complete	\$1.5 billion	Communications
	SGR		China ExIm Bank	Construction
				Company
				(CCCC)
	Naivasha Malaba	Planned	\$3.5 billion	CCCC
			China ExIm Bank	
	Lamu Port	42% complete	\$24 billion	CCCC
			Gov't of Kenya	
	Oil Pipeline	Planned	\$3.9 billion	
			Gov't of Kenya	
Ethiopia	Ethiopia Djibouti	Complete	\$3.4 billion	China Rail
	(E-D) SGR		China ExIm Bank	Engineering
				Corporation
				(CREC)
				China Civil
				Engineering
				Construction
				Corporation
				(CCECC).
	Hawassa	Complete	\$250 million	CCECC
			Gov't of Ethiopia	
	Ethiopia Djibouti	Complete	\$340 million	CGC Overseas
	Water pipeline		China ExIm Bank	Construction
	system			Co Ltd
				(CGCOC).
	Ethiopia Djibouti	Complete	\$24 million	Shanghai
	SGR		China ExIm Bank	Electric Corp.
	Electrification			
Djibouti	Doraleh	Complete	\$590 million	China Merchant
	Multipurpose port		Djibouti Ports and Free Zones Authority (DPFZA) China Merchant Holding (CMHC)	Holding Company (CMHC)
	Ghoubet port	Complete	\$64 million China ExIm Bank	China Harbour Engineering Corp



Security Challenges and Piracy

DECREASE IN SOMALI PIRACY SINCE 2011

ONGOING PIRACY RISKS IN THE REGION

SECURITY THREATS IN THE RED SEA

IMPACT ON SHIPPING COSTS



Enablers of Shipping in the Region

STRATEGIC LOCATION ON GLOBAL TRADE ROUTES FOREIGN INVESTMENT AND INFRASTRUCTURE MODERNIZATION DIGITALIZATION AND TECHNOLOGICAL INNOVATION



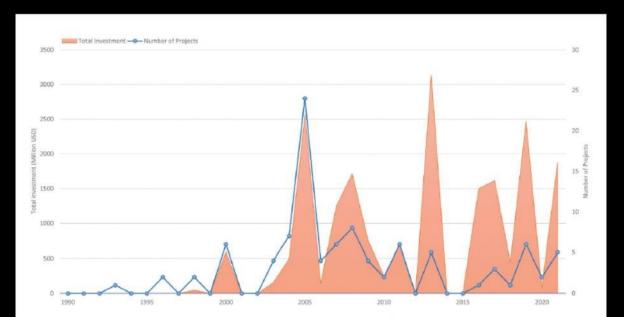


Figure 1. Investment and projects in Africa's ports sector, 1990–2021. Source: World Bank Private Participation in Infrastructure (PPI) (2021).

Foreign Investment and Infrastructure Modernization



Digitalization and Sustainability

DIGITAL TRANSFORMATION OF PORT OPERATIONS

Various ports in East Africa have embraced digital technologies to streamline port processes, including automated cargo tracking systems, electronic documentation, and real-time data sharing. These digital tools improve operational efficiency, reduce human errors, and enhance trade flow.

REDUCING PORT EMISSIONS AND CARBON FOOTPRINT

East African ports are implementing sustainable practices to lower their environmental impact, such as using renewable energy sources, upgrading equipment to reduce fuel consumption, and exploring electric and hybrid cargo handling vehicles to cut down on emissions.

ENHANCING TRADE VISIBILITY AND PREDICTABILITY

Digital solutions like container tracking and predictive analytics provide greater visibility and predictability across the supply chain, enabling shippers and logistics providers to make more informed decisions and optimize their operations.

COLLABORATION FOR SUSTAINABLE DEVELOPMENT

Regional and international partnerships are crucial for driving sustainable port development. Initiatives like the East African Community's (EAC) green port program and the United Nations' Sustainable Development Goals provide a framework for ports to adopt environmentally-friendly policies and technologies.



Sustainability and Green Port Initiatives

1 INITITIVES BY INTERNATIONAL AND REGIONAL ORGANIZATIONS

2 ADOPTION OF GREEN PORT STRATEGIES

3 SUSTAINABILITY AS AN ENABLER



Conclusion and Recommendations

INFRASTRUCTURE DEVELOPMENT

Continued investment in port capacity expansion, improved road and rail connectivity, and modernization of cargo handling systems are crucial to enhancing the efficiency and competitiveness of East African ports.

SECURITY MEASURES

Strengthening regional maritime security efforts, such as the UNODC's anti-piracy programs, is essential to mitigate threats and ensure the safe and uninterrupted flow of trade through the region.

DIGITALIZATION

Embracing digital technologies, including cargo tracking systems, automated customs processes, and integrated port management platforms, can significantly improve trade flow, reduce errors, and enhance overall efficiency.

REGIONAL COOPERATION

Initiatives like the African Continental Free Trade Area (AfCFTA) can foster greater regional integration, harmonize trade policies, and position East African ports as critical hubs in the global supply chain, unlocking new economic opportunities.



References

Humphreys, Martin, et al. Port Development and Competition in East and Southern Africa: Prospects and Challenges. Washington, DC: World Bank, 2019.

Blanchard, Jean-Marc F., ed. China's Maritime Silk Road Initiative, Africa, and the Middle East: Feats, Freezes, and Failures. Palgrave Macmillan, 2021.

Reboredo, Ricardo, and Elisa Gambino. "Connectivity and Competition: The Emerging Geographies of Africa's 'Ports Race'." Area Development and Policy, vol. 8, no. 2, 2023, pp. 142-161.

Gard. "Is the Decline in Global Piracy Over?" Gard Insights, 2024.

