AFRICA OCEAN EXPERTS PERSPECTIVE OF AQUACULTURE CHALLENGES IN AFRICA

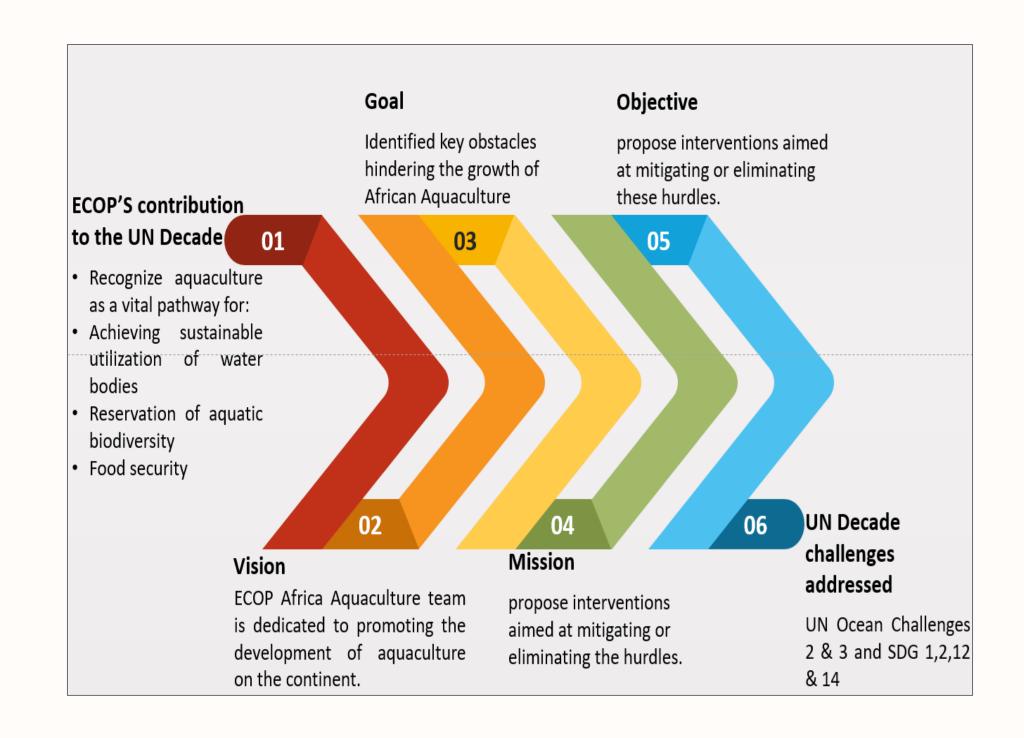
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OVERVIEW

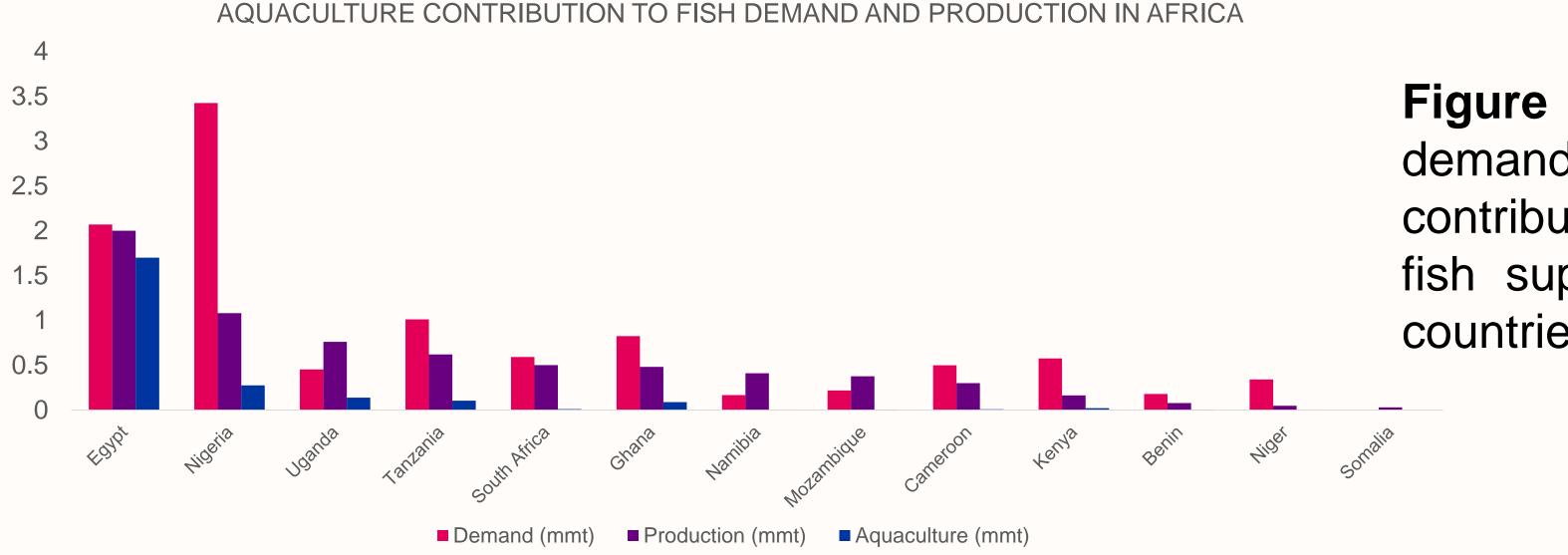
INTRODUCTION

Africa Ocean Experts (A.O.E) team have a strong focus on Aquaculture.

The growing population makes this need even more urgent



Africa has achieved impressive double-digit growth in aquaculture, despite recent challenges from COVID-19 and diseases. However, the continent's high fish demand and declining capture fisheries highlight the urgent need for substantial growth in aquaculture production. Currently, most countries heavily rely on fish imports, impacting their national income. Aquaculture in Africa primarily utilizes semi-intensive systems like ponds, with limited intensive cage farms. The expansion of cage culture and availability of commercial feed have contributed to increased aquaculture production. Mariculture, though on a smaller scale, is practiced in countries like Egypt. Except for Egypt, aquaculture's contribution to fish production in Africa remains relatively low.



demand, production, and the contribution of aquaculture to fish supply in selected African countries.

Insights

into

To achieve adequate local fish production, significant increases in aquaculture production are required across the continent. Identifying and addressing critical limiting factors present an excellent opportunity for young professionals to contribute to the sector's growth.

CHALLENGES

Africa has great potential to meet its fish demand locally. This potential comes face to face with several hurdles

- Poor stocks of fish species and Diseases
- Low technical know-how of farmers and extension workers.
- These challenges are common across the continent.
- Africa Ocean Expert Aquaculture task team identify seven classes of problems using 13 countries as a study sample.

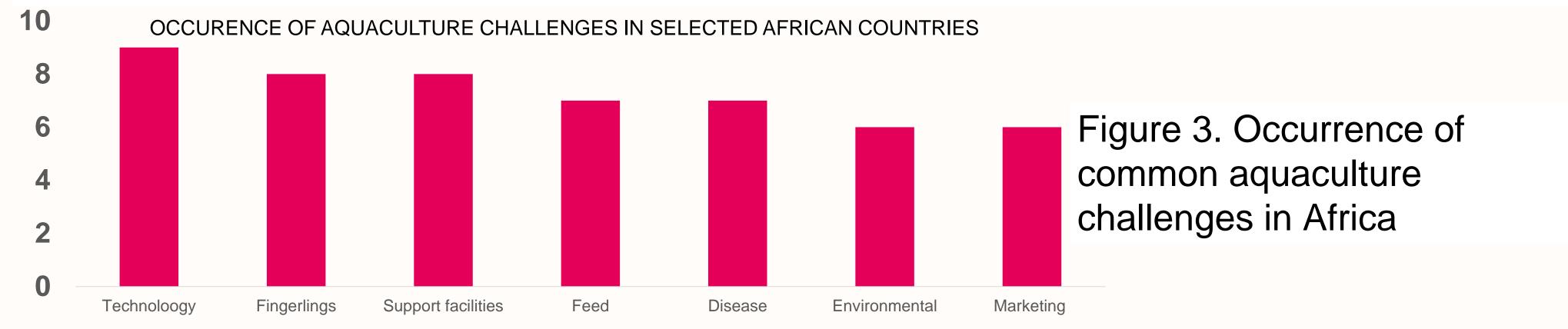


Table 1. Detailed descriptions of aquaculture problems and suggested solutions

Low Product Development

CHALLENGE	DESCRIPTION	SOLUTION
Less Productive	Largely Semi-intensive Sector Inadequate Expertise	Knowledge Sharing Education and Training
Technology	Low Access to Modern Practices	
	Inadequate quality fingerlings	National Hatcheries
Seed Supply Challenges	Poor growing fish strains Low Expertise to Breed other species	Encourage Private Sector Involvement Scholarships and Training of Breeding Experts
	Discrepancies in Fingerlings trade.	Improved Regulation of Fingerlings Trade
Support Facilities	Inadequate Extension Service	Enhanced Extension (Personnel &
	Lack of finance and credit facilities Wook industry research linkages	Logistics) Favorable Financial Packages Improved industry-research linkages
	Weak industry-research linkages Weak value chain linkages	Forming of National Farm Aggregates
	Poor Infrastructure (roads, power, cold storage, etc.)	
	High Cost of Quality Feed	Government subsidies on imported inputs
Feed	Low Quality of Local Ingredients	Farmers Associations Machinery
reeu	High Cost of Feed Production Machinery	Encourage Local Production of Feedstuff
	High Cost of Imported Feedstuff Unregulated Fish Import and Transport	Regulations and Enforcement
	Lack of Proper Biosecurity	Gross Biosecurity (national and farm level)
Diseases	Low Disease Surveillance and Diagnosis Capacity	Training and Education
	Inadequate Fish Health Expertise	
Environmental	Sustainability Concerns	Education Adopting Intensive Forming Techniques
Issues	Land and Water Availability Environmental Pollution	Adopting Intensive Farming Techniques Regulations and Enforcement
	Weak Value Chain Linkages	Farmers Associations, Use mobile Apps.
Marketing	Low Business Approach to Farming	Trainings should include Business Nodules

Encourage Product Development

AOE INITIATIVES

Africa Ocean Expert HATCHERY:

Establish regional/national hatcheries with Africa Aquaculture Experts guiding farmers, and utilizing proceeds to sustain the project.

Internships, scholarships, and capacity building enhance Africa Aquaculture Experts impact and sector diversification.

Africa Aquaculture TRAIN:

Empower Aquaculture Experts as independent extension workers.

International support for visits to areas lacking technical know-how.

Exchange programs enhance expertise and knowledge transfer among farmers.

Africa Aquaculture Experts SEARCH:

Research support for Africa Aquaculture Experts in investigating identified aquaculture challenges in their respective countries and across the continent.

Project evaluation based on industry relevance and potential benefits for multiple countries.

Collaboration among Aquaculture experts in Africa from different countries fosters research-based development in the aquaculture sector.

SUMMARY

Africa's aquaculture industry holds great promise but faces obstacles including poor stocks, diseases, and limited technical know-how.

The Africa Ocean Experts- Aquaculture task team proposes solutions such as AOE HATCHERY for quality fingerlings, AOE TRAIN for extension support, and AOE SEARCH for research.

By implementing these interventions, the sector can become more sustainable and meet local fish demand.