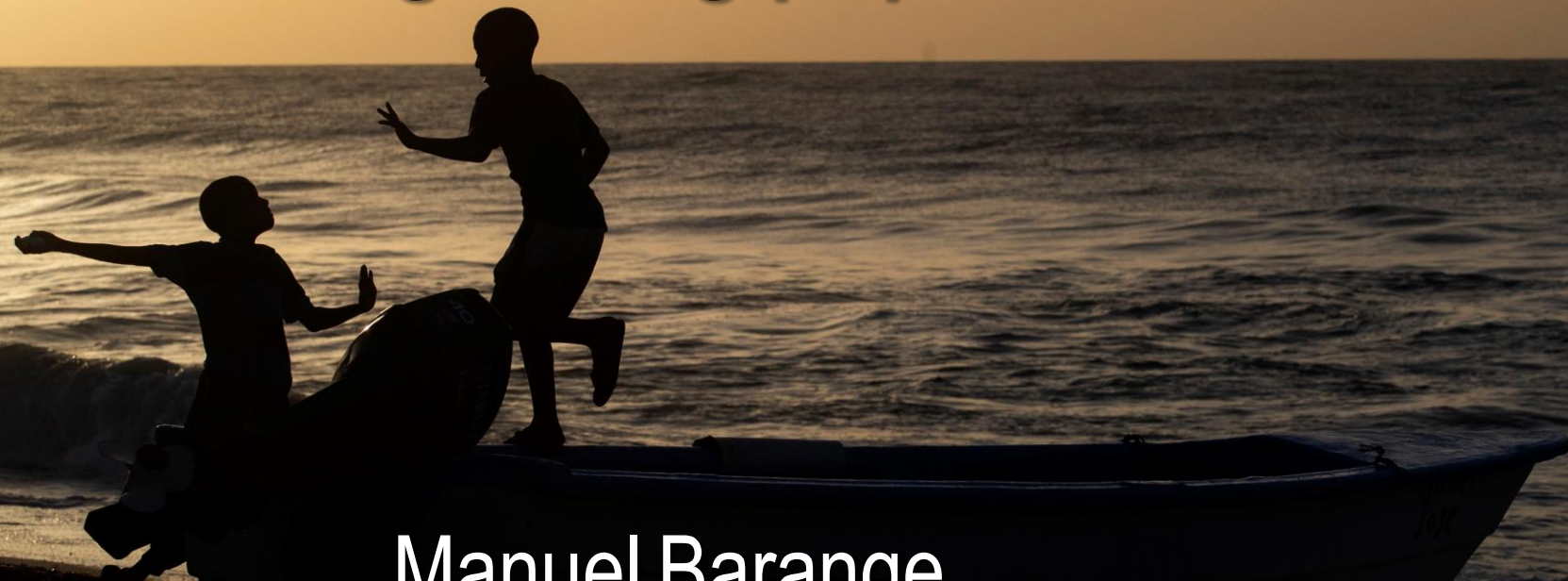




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# The role of aquatic foods in addressing hunger and malnutrition for a growing population



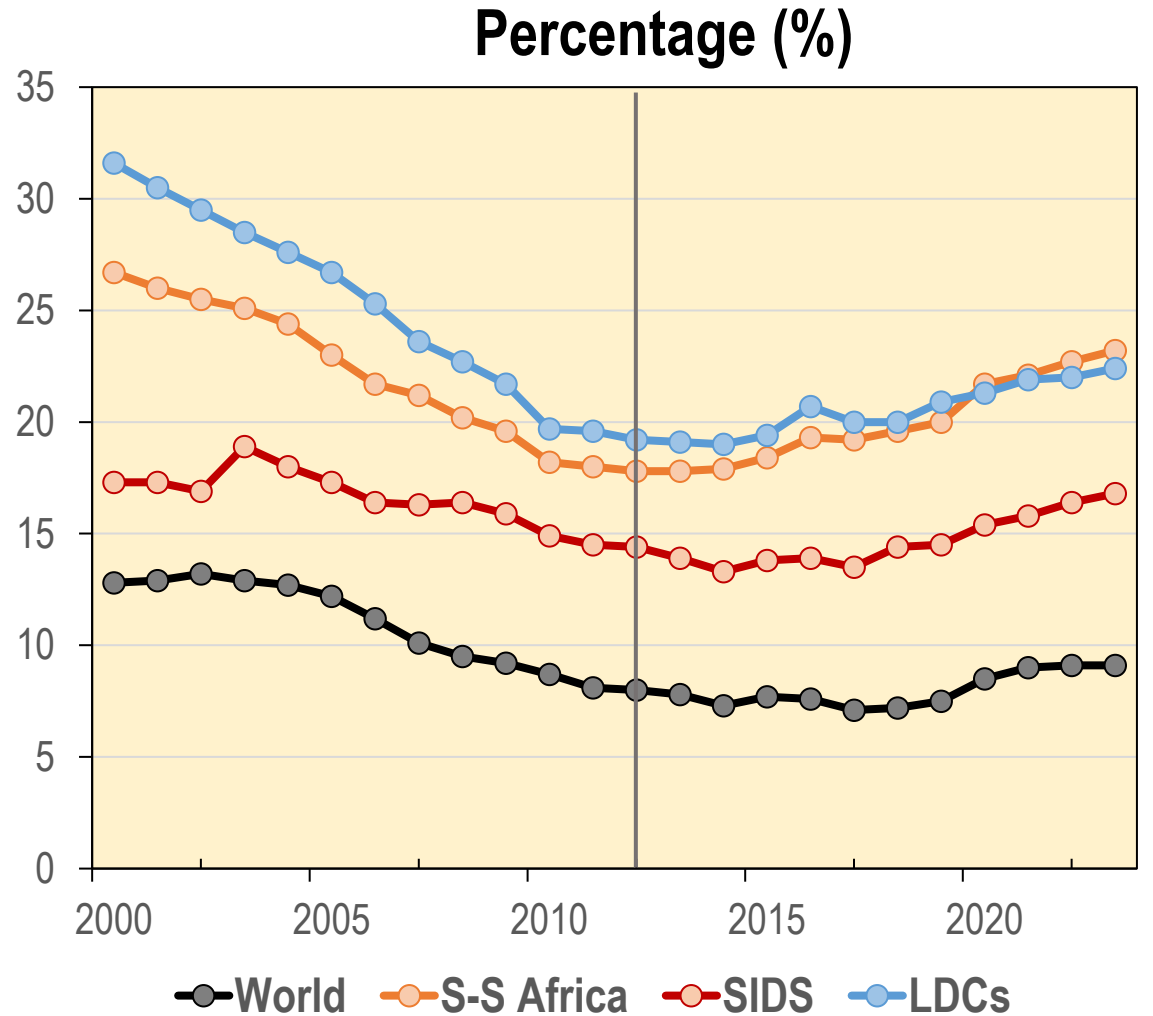
**Manuel Barange**

FAO Assistant Director General and  
Director FAO Fisheries and Aquaculture Division

The Contribution of Fisheries and Aquaculture to Food Security, Brussels, 14 November 2024

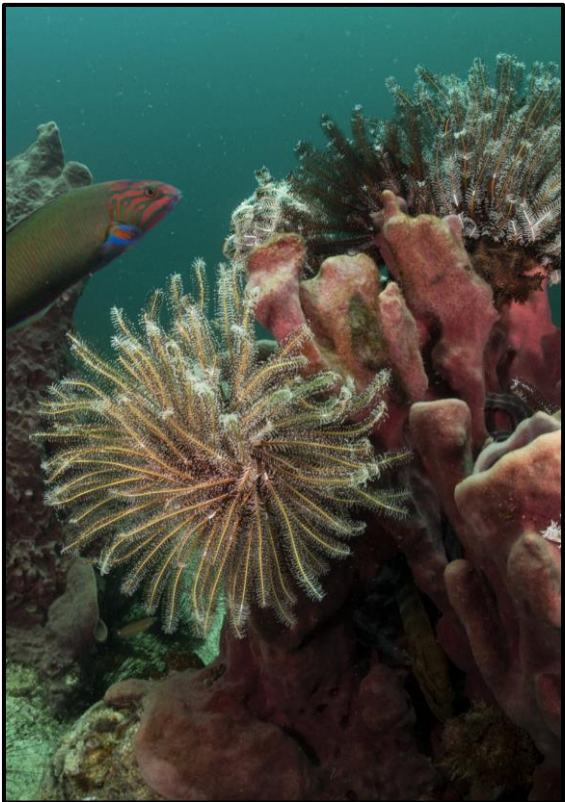


# LOOMING HUNGER CRISIS: UNDERNOURISHMENT





# THE AQUATIC SYSTEMS WE WANT AND NEED?



**A reservoir of biodiversity that must be protected and untouched**



**Protect except for indigenous and low impact activity**



**More food from aquatic systems is necessary, but ensuring sustainability**

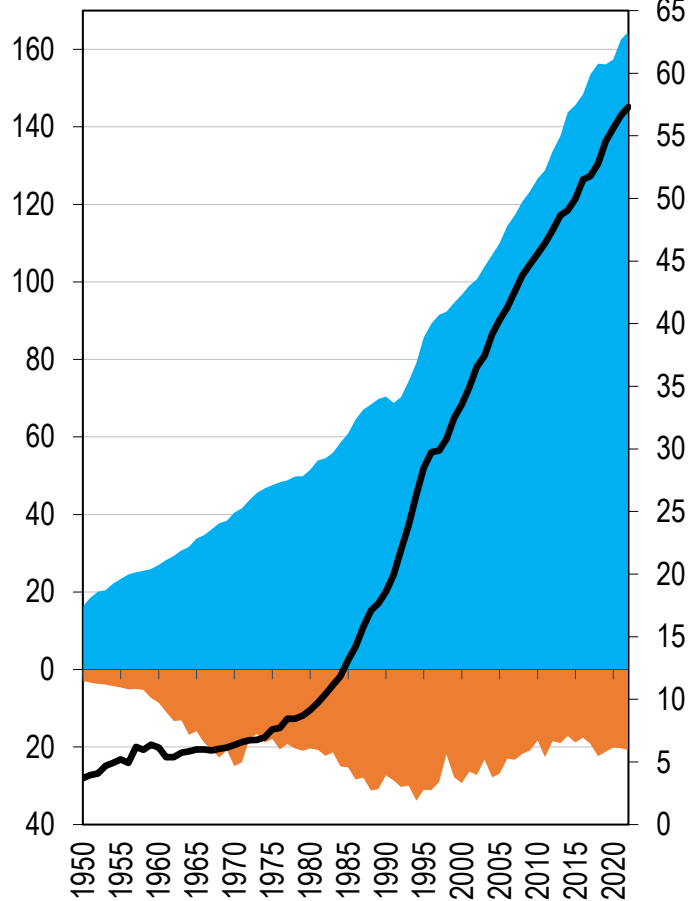


**Technology must be fully harnessed to generate social and economic development**



# AQUATIC FOODS: DIVERSE FOOD SECTOR UNDER CONTINUED TRANSFORMATION

**Mt** **Animal Production** **%**



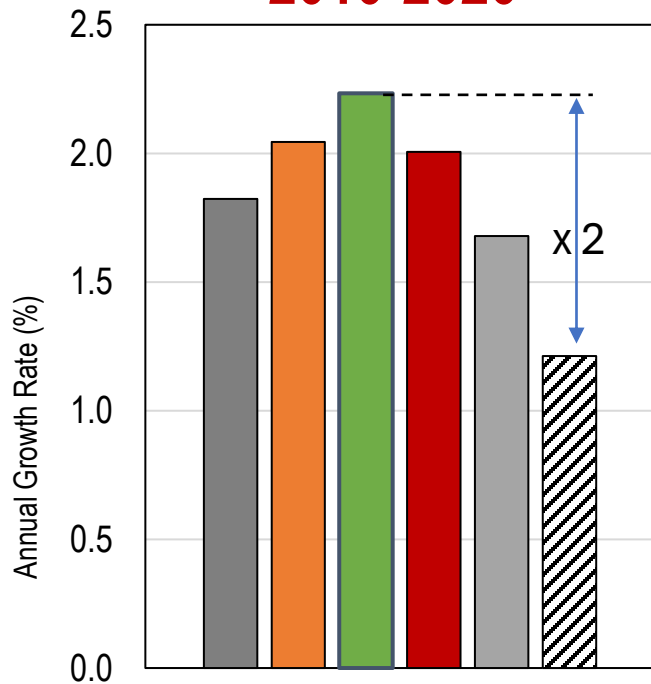
<u>2000-2022 APR</u>	
<b>Total capture Fisheries</b>	<b>-0.1%</b>
<i>(Europe -0.76%)</i>	
<b>Total Aquaculture</b>	<b>+5.0%</b>
<i>(Europe +2.5%)</i>	

Food Non-food uses Aquaculture (%)



# A MAJOR CONTRIBUTOR TO NUTRITIONAL OUTCOMES, WITH GROWING EXPECTATIONS

## Consumption growth rate 2010-2020



- Total proteins
- Animal proteins
- Fish proteins
- Other animal proteins
- Non-animal proteins
- ▨ Population

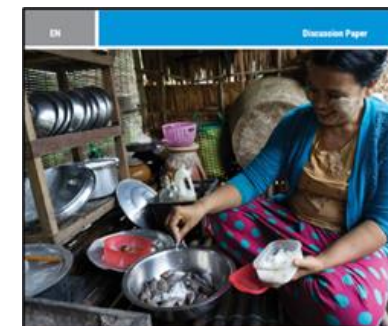


COMMENT | 30 August 2021

## Food systems: seven priorities to end hunger and protect the planet

Here's how the United Nations should harness science and technology to improve nutrition and safeguard the environment.

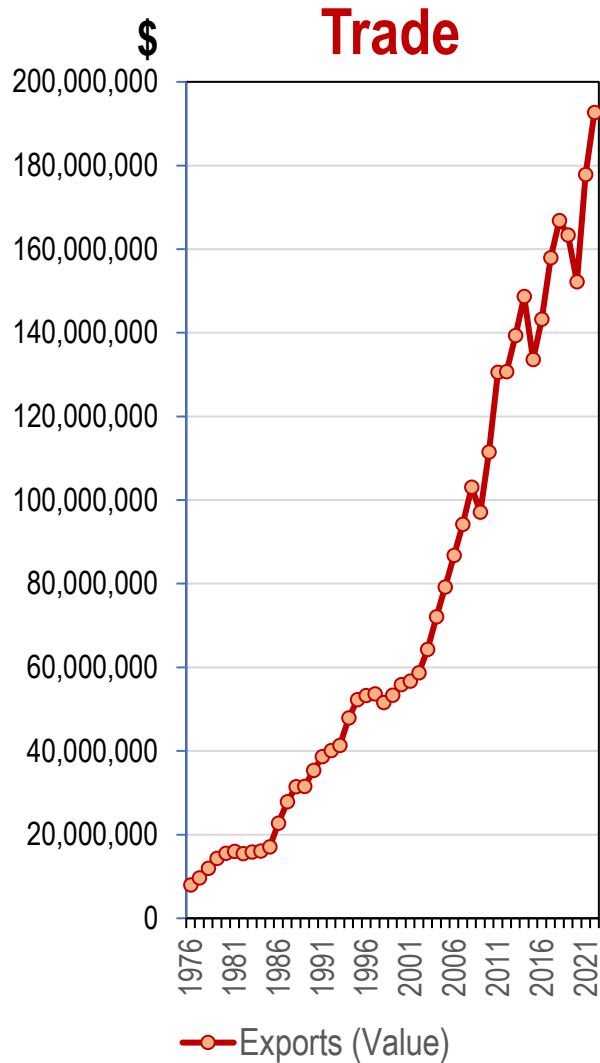
[Joachim von Braun](#), [Kaosar Afsana](#), [Louise O. Fresco](#) & [Mohamed Hassan](#)



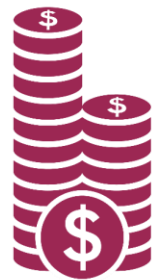
The role of aquatic foods in sustainable healthy diets



## OUTCOMES HAVE ALSO ECONOMIC AND SOCIAL IMPLICATIONS



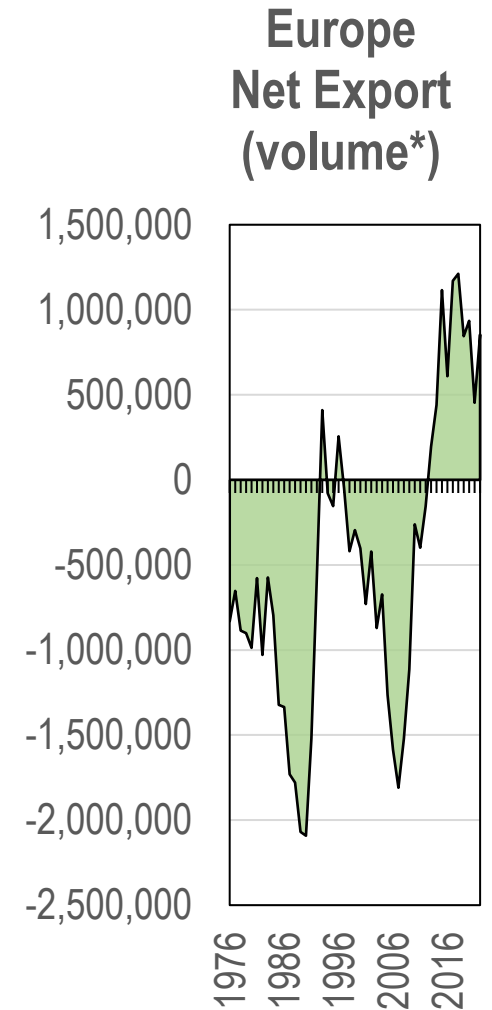
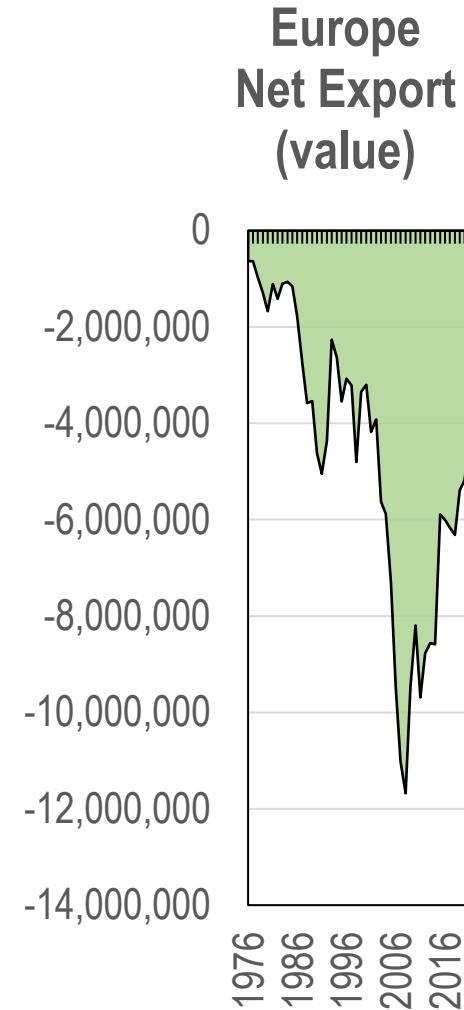
TOTAL FIRST SALE VALUE ~  
USD 472 BILLION



**AQUACULTURE**  
\$312.8 billion



**FISHERIES**  
\$159.0 billion





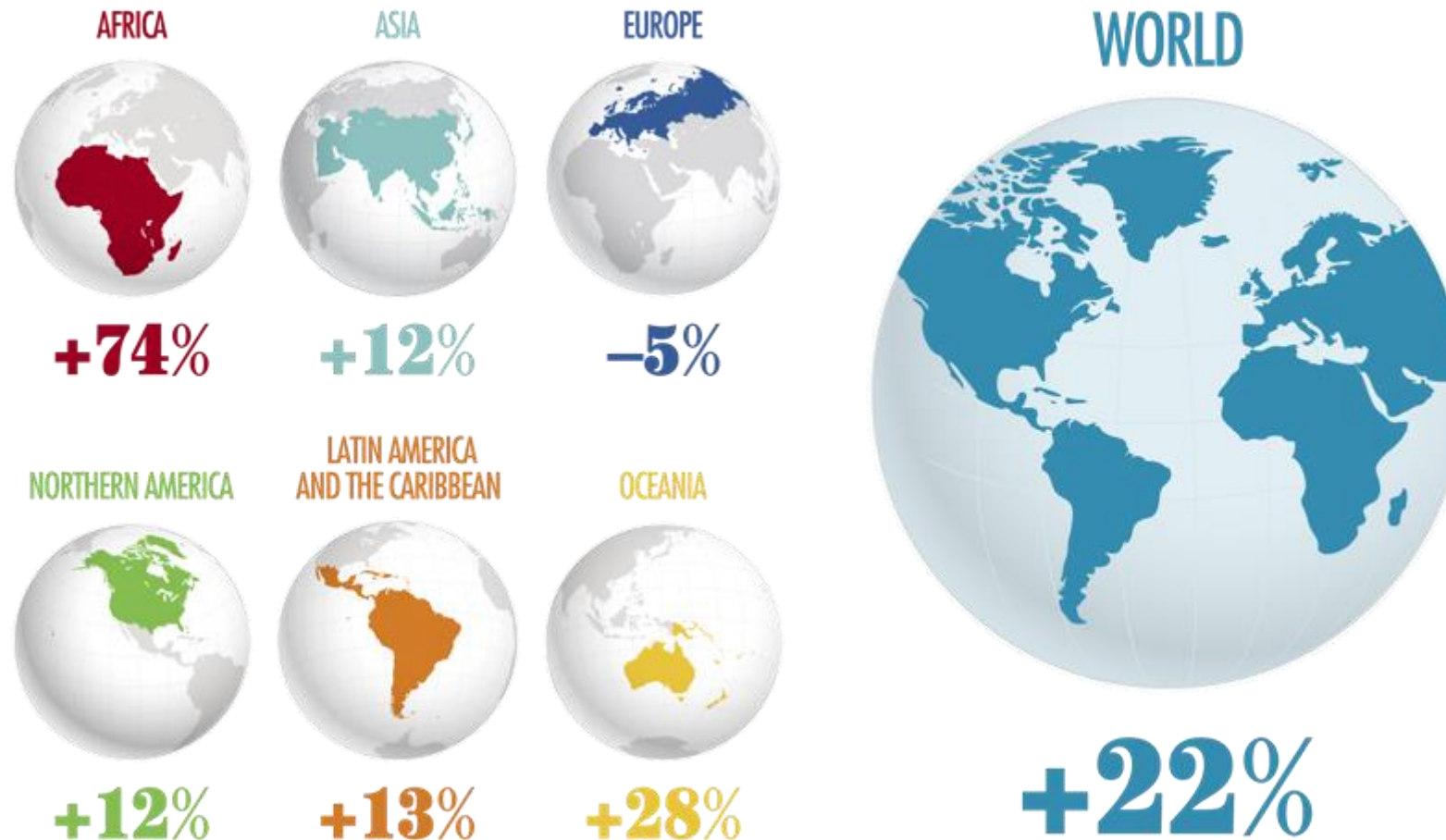
Food and Agriculture  
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# MORE IS EXPECTED FROM AQUATIC FOOD SYSTEMS





## NEED FOR GROWTH IN AQUATIC ANIMAL SUPPLY BY REGION BY 2050\*



\* Supply needed to sustain 2022 per capita consumption by region. Assuming trade and utilization remains unchanged





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# BLUE TRANSFORMATION

A VISION FOR A MORE SUSTAINABLE,  
PRODUCTIVE, EQUITABLE AND  
IMPACTFUL SECTOR

ENG

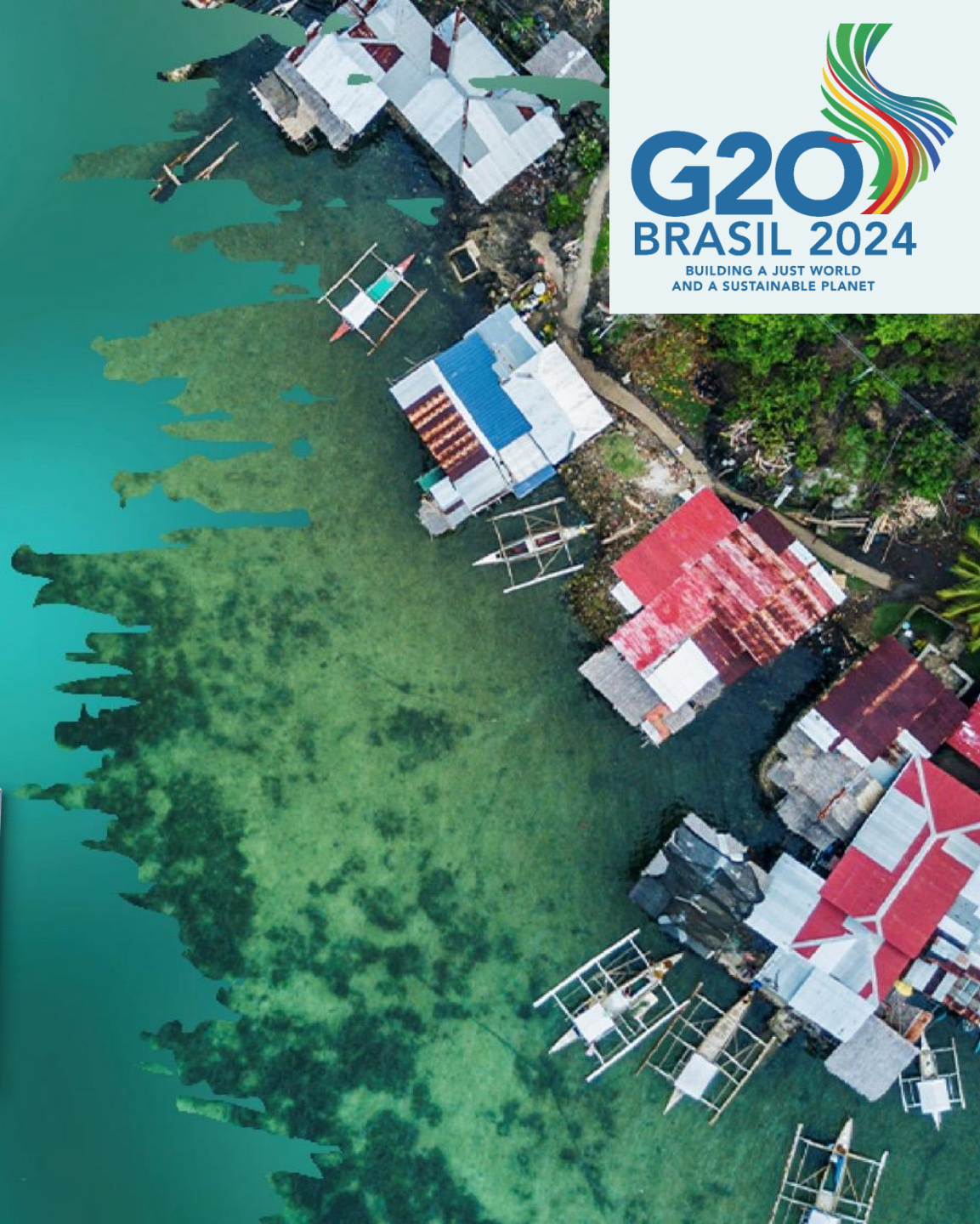


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card/en/c/CC6646FR](http://www.fao.org/documents/card/en/c/CC6646FR)





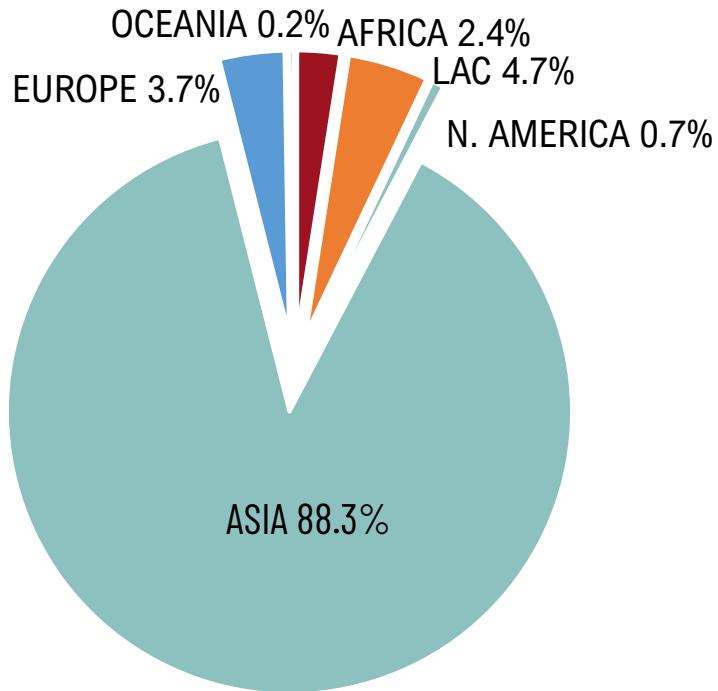
**OBJECTIVE 1: SUSTAINABLE AQUACULTURE INTENSIFICATION / EXPANSION SATISFIES GLOBAL DEMAND FOR AQUATIC FOODS AND DISTRIBUTES BENEFITS EQUITABLY.**

**OUTCOME: ACHIEVE 35% GROWTH IN GLOBAL AQUACULTURE BY 2030 WITH QUALITY FOODS, PRODUCED SUSTAINABLY**

# OBJ 1 SUSTAINABLE AQUACULTURE INTENSIFICATION & EXPANSION



## REGIONAL ANIMAL AQUACULTURE PRODUCTION (2022)



## AQUACULTURE DEVELOPMENT

### Growth 2000-2022 (%)

Africa	8.1 APR
LAC	7.6 APR
N America	0.5 APR
Asia	5.2 APR
<b>Europe</b>	<b>2.5 APR</b>
Oceania	2.7 APR

**World 5.0 APR**

## FAO DEVELOPMENTS

- **2024 GUIDELINES FOR SUSTAINABLE AQUACULTURE (GSA)**
- **2022 PLAN OF ACTION AQUATIC GENETIC RESOURCES AND 2023 GLOBAL INFORMATION SYSTEM (AQUAGRIS)**
- **2023 FIVE NEW REFERENCE CENTRES FOR AQUACULTURE BIOSECURITY AND ANTIMICROBIAL RESISTANCE (AMR)**



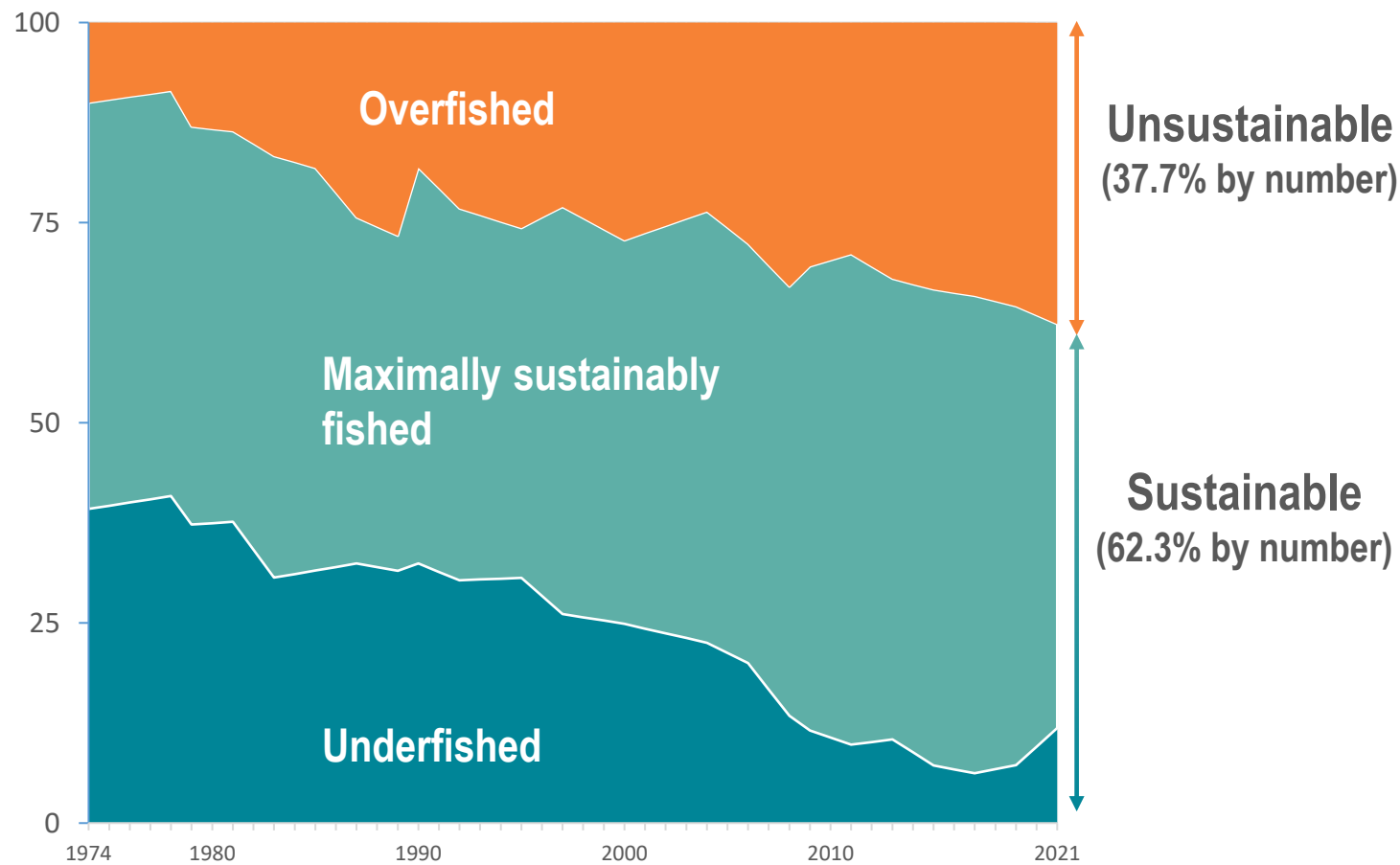
## **OBJECTIVE 2: EFFECTIVE MANAGEMENT OF ALL FISHERIES DELIVERS HEALTHY STOCKS AND SECURES EQUITABLE LIVELIHOODS**

**OUTCOME: 100 PER CENT OF MARINE AND INLAND FISHERIES ARE PLACED UNDER EFFECTIVE MANAGEMENT, ENDING IUU FISHING AND ABLE TO PRODUCE MSY**

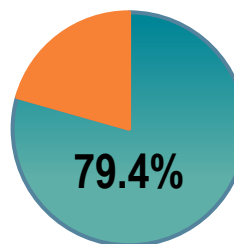
# OBJ 2 EFFECTIVE MANAGEMENT OF ALL FISHERIES



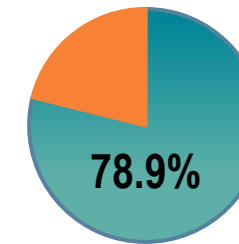
## STATE OF THE WORLD'S MARINE FISH STOCKS



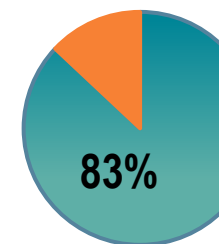
**NE Atlantic (2021)**



**Top-10 spp (2021)**



**Top-tunas (2023)\***



*Scientifically assessed and intensively managed stocks have, on average, seen abundance increasing or at proposed target levels (Hilborn et al., 2020; SOFIA 2022)*

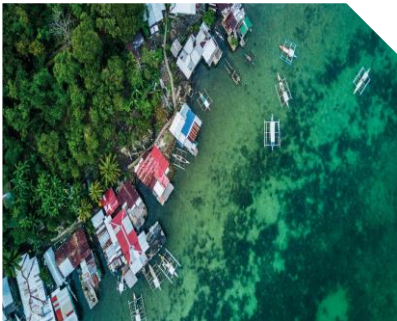


## **OBJECTIVE 3: UPGRADED VALUE CHAINS ENSURE SOCIAL, ECONOMIC AND ENVIRONMENTAL VIABILITY OF AQUATIC FOOD SYSTEMS**

**OUTCOME: HALVING LOSS AND WASTE, MORE TRANSPARENCY AND TRACEABILITY, BETTER MARKET ACCESS, MORE CONSUMER AWARENESS, NATIONAL NUTRITION STRATEGIES**



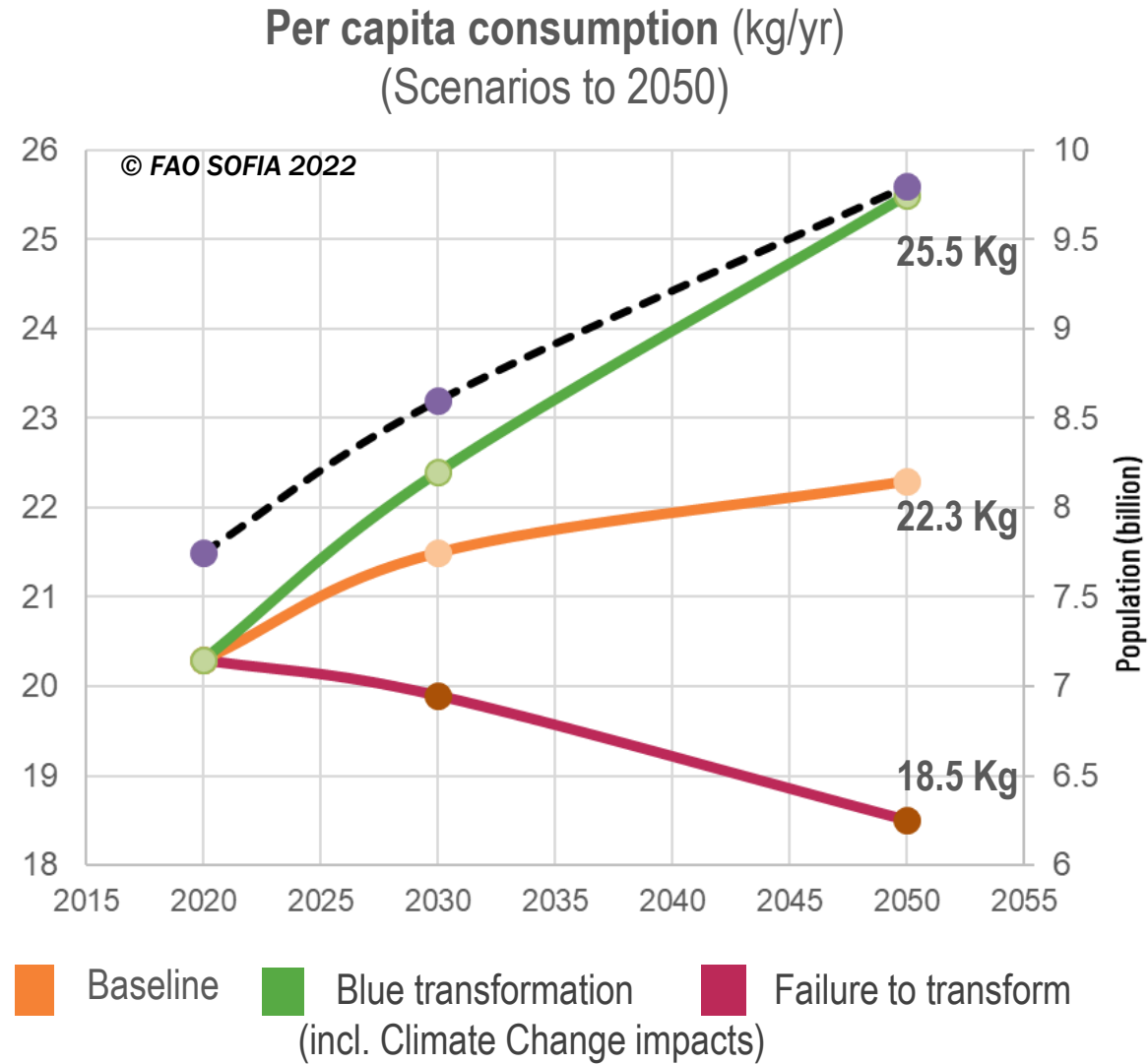
# BLUE TRANSFORMATION WILL MEET TARGETS



**OBJECTIVE 1**  
Sustainable aquaculture intensification and expansion satisfies global demand for aquatic foods and distributes benefits equitably.

**OBJECTIVE 2**  
Effective management of all fisheries delivers healthy stocks and secures equitable livelihoods.

**OBJECTIVE 3**  
Upgraded value chains ensure the social, economic and environmental viability of aquatic food systems.





Committee on Fisheries, COFI36  
Thirty-sixth session, 8-12 July 2024  
FAO Headquarters, Rome, Italy



Thank you for your attention