

FAO's role in supporting sustainable fisheries management in the face of climate change

ICSP-17 15-17 May 2024

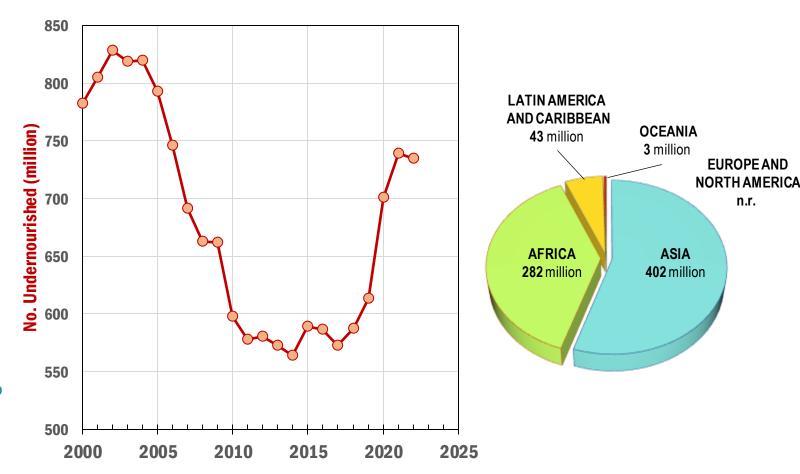


The growing challenge to feed the world



n.r.

- An estimated 735 million people faced hunger in 2022
- Hunger is still on the rise in Western Asia, the Caribbean and all subregions of Africa
- FAO projects that 600 million people will be chronically undernourished in 2030
- Today 3 billion people cannot afford a healthy diet
- In 12 countries, all of them in Africa, >90% of the population cannot regularly afford a healthy diet.

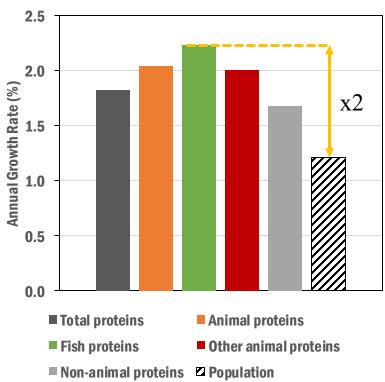


Source: FAO SOFI 2023

Aquatic foods: a powerful solution to the dual challenge



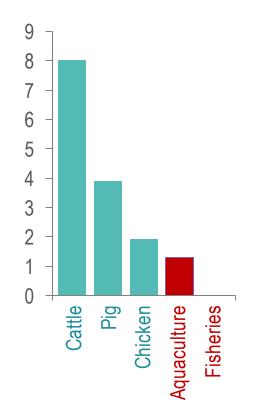
Consumption Aquatic Animal Foods (Global, 2010-2020)





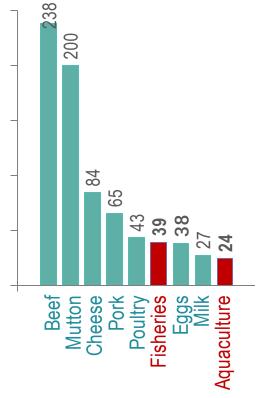


Conversion Efficiency (kg feed/ kg live weight)



GHG Emissions Intensity

(g CO2 eq./g protein)



Legal mandate on fisheries management in a changing climate



Legal

FAO mandate based on Constitution

Political

Requests of FAO COFI & Subcommittees

Strategic

FAO Code of Conduct for Responsible Fisheries



FAO Strategy on Climate Change & Action Plan

FAO climate actions on fisheries

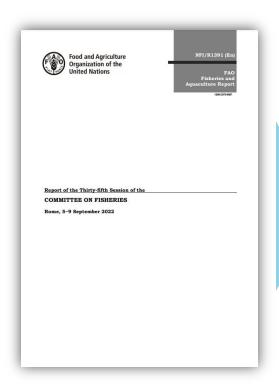
Strengthen knowledge base & policy guidance

Develop & implement projects

Integrate aquatic foods under UNFCCC & other fora

Recap of COFI35 requests





COFI35 report



Member countries constituting the Committee on Fisheries (COFI):

FAO Strategy on Climate Change 2022–2031:

- requested Action Plan for the implementation of the Strategy with <u>a set of actions focused</u>
 on <u>climate resilient fisheries</u> and <u>aquaculture</u>
- requested <u>transparent consultation processes with Members</u> for development of the Action Plan

Knowledge, awareness & guidance:

- <u>increase knowledge and awareness</u> on climate change impacts in fisheries & aquaculture
- <u>provide guidance on climate resilient fisheries management</u> (adaptation and mitigation) (e.g. <u>workshop with RFMOs and RFABs</u>, <u>inclusion of climate change in the GSA</u>)

Resource mobilization & support to Members:

- requested increased support to <u>SIDS and LDCs</u>
- <u>mobilizing additional resources (e.g. Green Climate Fund)</u>: inclusive collaboration to adopt low-emission, good practices and innovative solutions

UNFCCC:

encouraged FAO to <u>further include aquatic foods under UNFCCC</u>

Strengthen knowledge base & policy guidance





Strengthen knowledge base & policy guidance



MAIN HIGHLIGHTS OF ONGOING WORK (NON-EXHAUSTIVE)

- Studies: IPCC AR6 findings; Nationally Determined Contributions (NDCs), National Adaptation Plans (NAPs) & funding gap
- Technical reports:
 - climate-driven changes in exploitable animal biomass
 - projections of tuna stocks distribution
 - aquatic invasive species
 - climate challenges and opportunities for SSF
 - linking early warning systems with shock-responsive social protection programs
- Methodological review: GHG emissions from fishing vessels
- Safety-at-sea training: for fishers and development of fishing vessel safety standards
- Project formulation support: background studies for SIDS
- Guidance: mainstreaming climate change into EAF/ EAA

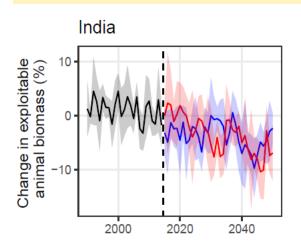
© FAO/Luis Costa

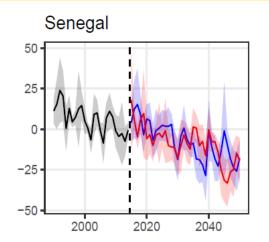


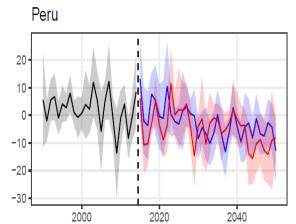
Strengthen knowledge base & policy guidance

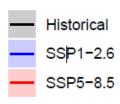


Climate-driven changes in exploitable animal biomass









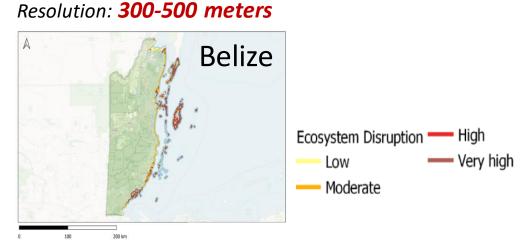
© FISHMIP (unpublished)

Background studies for 41 SIDS

Hazard (high & very high hazard level)	Percentage of coastline	Total assets in million USD
Ecosystem disruption	62%	140 449
Gradual inundation	46%	168 113
Salt water intrusion	29%	47 770
Erosion	28%	82 094
Flooding	39%	132 494

Assets subject to high/ very high hazard level: USD 48 - 168 billion





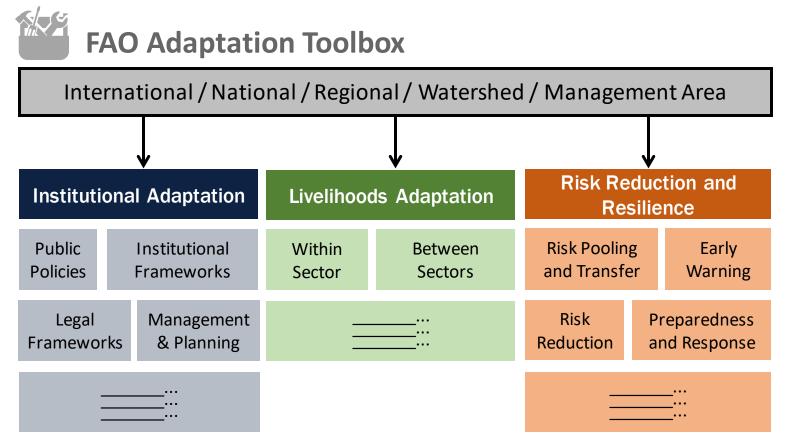
Develop & implement projects





Develop & implement projects

on the ground in collaboration with governments to reduce vulnerability of fishing and fishfarming communities to climate change and natural disasters



- Adaptation is place and context based
- Adaptation should be viewed as an on-going and iterative process
- Transboundary issues need to be considered when developing an adaptation strategy

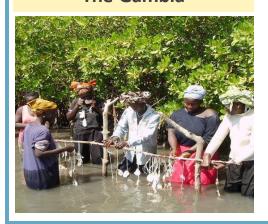
FAO climate change adaptation programme

20 projects

>24 countries supported



The Gambia



Funded by Green Climate Fund (GCF):

- Climate-proofing fisheries infrastructure
- Enhancing value chain segments critical for women such as fish handling and processing
- Developing aquaculture to compensate decreases in fisheries
- Restoring mangrove forests and critical fisheries habitats

Timor-Leste



Funded by Global Environment Facility (GEF):

- Enabling national fisheries policies, legal frameworks and local management institutions to address climate change
- Building adaptive capacity of communities and developing climate information systems
- Adopting Ecosystem Approach to Fisheries and Aquaculture (EAF/ EAA) and Ecosystem based Adaptation (EbA), and promoting Nature Based Solutions (NbS)

Develop & implement projects Broader climate resilience building: disaster risk management



- ❖ Supported Rapid/Post-Disaster Damage and Needs Assessments and response plans for the aquatic food sector in Libya, Mozambique, The Bahamas, Sudan and Vanuatu
- ❖ Fisheries and Aquaculture Emergency Response (FARE) training carried out in six Caribbean countries, to build institutional capacity across the region and improve inclusion of the aquatic foods in Post-Disaster Damage and Needs Assessments
- Developed a proposal of a **Boat Bank** to have containers with vessels, engines and fishing gears ready to be deployed at 5 UN hubs around the world after a disaster to support food security and livelihoods

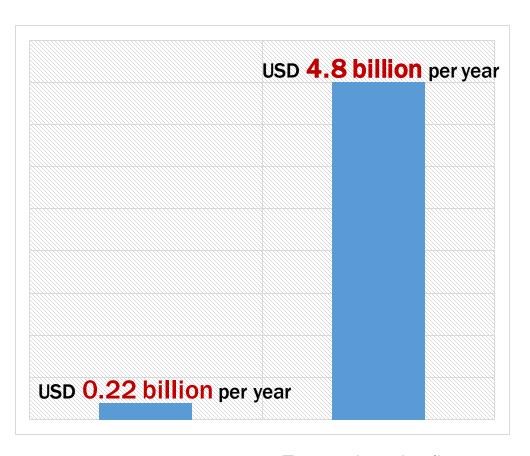


The cost of scaling up climate action in aquatic food sector: adaptation





© FAO data



Actual adaptation finance flow (2017-2021) (i.e. public international adaptation finance flows to the aquatic food sector)

Target adaptation finance flow by 2030 (i.e. total costs of adaptation for the aquatic food sector in all developing countries)

Integrate aquatic foods under UNFCCC & other fora

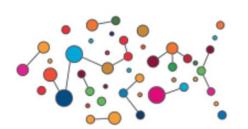


REGIONAL FISHERY BODIES AND CLIMATE CHANGE

- CC included in the agenda of 9th meeting of Regional Fishery Body
 Secretariats' Network (RSN) held in conjunction with COFI35
- FAO workshop on CC with RFBs from Indo-Pacific region (Chennai, India) (October 2023) and from the Atlantic region (June 2024)
- CC is a working topic under several RFBs (e.g. COPPESAALC, GFCM, ICCAT, RECOFI)

Lunch time side-event today! Conference room A @ 13:15





Integrate aquatic foods under UNFCCC & other fora

Global

- ❖ 73% of Nationally Determined Contributions (NDC) referred to adaptation in fisheries and aquaculture in the 2020 NDC submission cycle
- Sectoral National Adaptation Plans (NAP): Chile, Saint Lucia, Senegal, etc.

2019 - UNFCCC COP25 2023 - UNFCCC COP28 2009 - UNFCCC COP15 Blue COP and mandated the first aquatic food becoming more prominent Ocean Dialogue first Ocean Day in the green zone (civil under UNFCCC and discussions initiating society zone, non-official area) on freshwater systems 2020 - UNFCCC SBSTA52 2019 - UNFCCC Nairobi organized the first Ocean Dialogue **Work Programme** established expert group on the ocean 2014 - IPCC 2023 - UNFCCC SBSTA58 dedicated two chapters to ocean in the **2021 - UNFCCC COP26** 2019 - IPCC 5th Assessment Report (AR5) included "fisheries and food security" as mandated annual Ocean Dialogue one of two topics for deep-dive launched the Special Report on discussions at the annual Ocean Dialogue Ocean and Cryosphere (SROCC) **2016 - UNFCCC COP22 2015 - UNFCCC COP21** Ocean Day became part of the 2022 - UNFCCC SBSTA56 **2022 - UNFCCC COP27** (Paris Agreement) blue zone (official zone where organized the first annual negotiations take place) recognized the nexus between climate first time to have a dedicated section Ocean Dialogue on ocean in the COP cover decision change and food production

URGENCY OF SCALING UP CLIMATE ACTION & ADAPTATION FINANCE GAP





United Nations

OceanDialogue2023



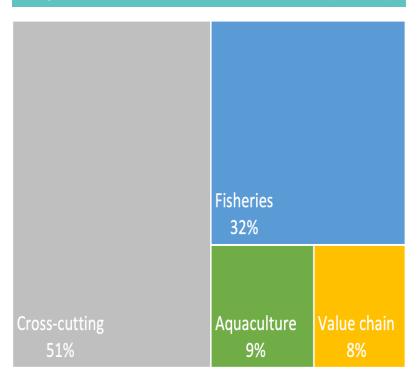
Topic 1 Coastal ecosystem restoration, including blue carbon

Topic 2 Fisheries and food security





Aquatic food related case studies (n≈100)



- Integration of aquatic food climate solutions within national and multinational processes, including UNFCCC...linking national climate policies with their blue food production
- Managing fish using an ecosystem approach...better recognizing the role of aquatic food in carbon cycle and food security
- Decarbonizing the entire value chain of aquatic food production, including fishing vessels and aquaculture practices
- Increasing, scaling up, and ensuring stable and accessible finance flows

Take-home messages

Food and Agriculture
Organization of the
United Nations

- Aquatic foods can provide suitable solutions to address both hunger and climate change
- Aquatic foods are carbonefficient and part of the climate solution
- ➤ We need to align narratives and achieve synergies across different fora



Synergies across fora



2025





10 Jun 2024

Aquatic food briefing event with climate negotiators (Bonn, Germany)

11-12 Jun 2024

UNFCCC Annual Ocean Dialogue (Bonn, Germany)

8-12 Jul **2024**

COFI36

(Rome,

Italy)

FAO

Climate Week (New York, USA)

11-24 Nov 2024

UNFCCC COP29 (Baku, Azerbaijan)

10-21 Nov **2025**

UNFCCC COP30 (Belém, Brazil)

2024

15-17 May

2024

USA)

ICSP-17

(New York,



<u>2024</u>

New York

Thank you!

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