

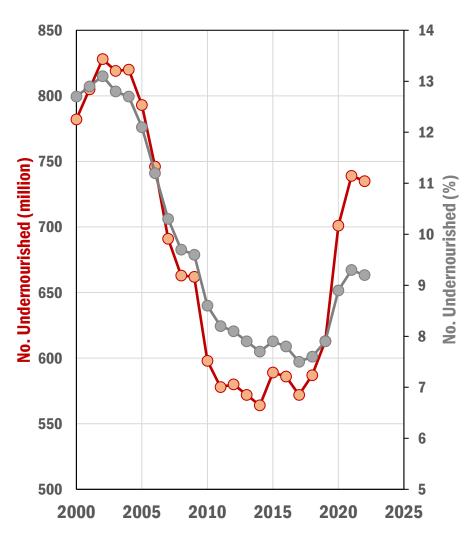
### **BLUE TRANSFORMATION**

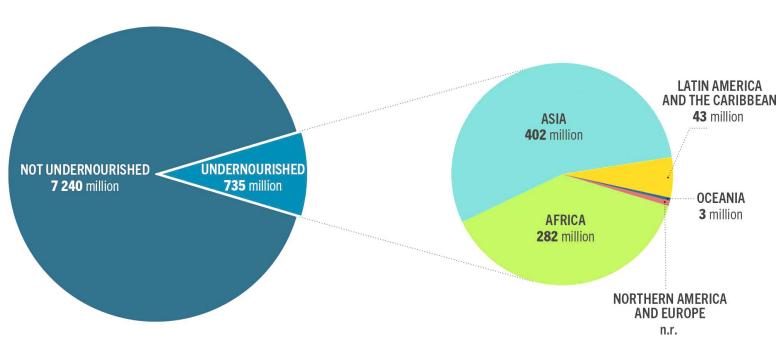
A VISION FOR FAO'S WORK ON AQUATIC FOOD SYSTEMS

Audun Lem, PhD
Deputy Director, Fisheries and Aquaculture, FAO



### **LOOMING HUNGER CRISIS**

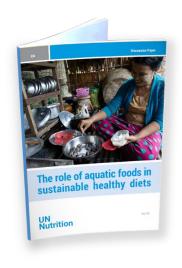


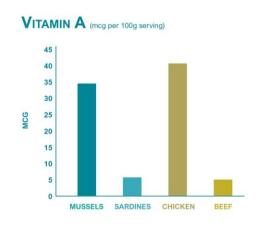


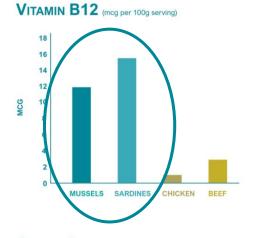
Aquatic food can be part of the solution

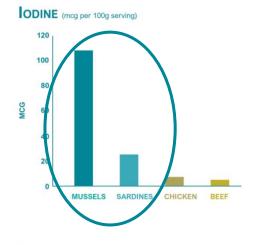


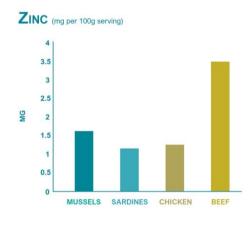
### **NUTRITION**

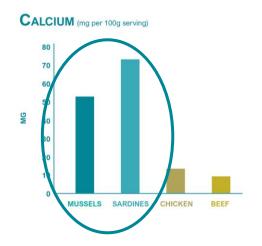


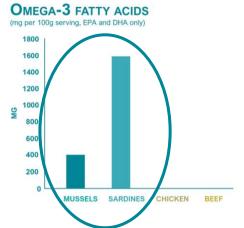


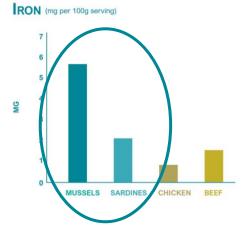






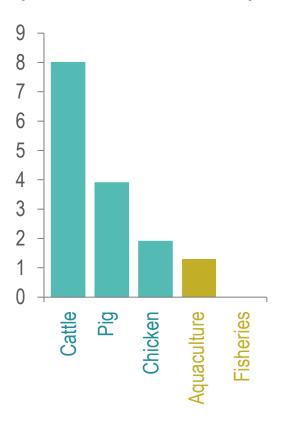




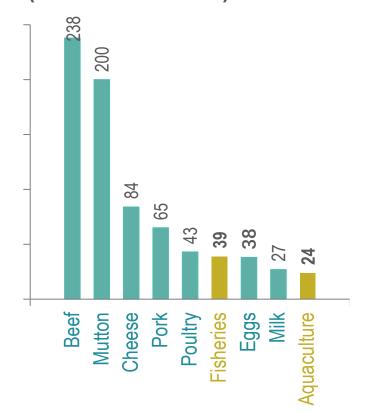


### **ENVIRONMENT AND BIODIVERSITY**

## CONVERSION EFFICIENCY (KG FEED/ KG LIVE WEIGHT)



## GHG EMISSIONS INTENSITY (G CO2 EQ./G PROTEIN)



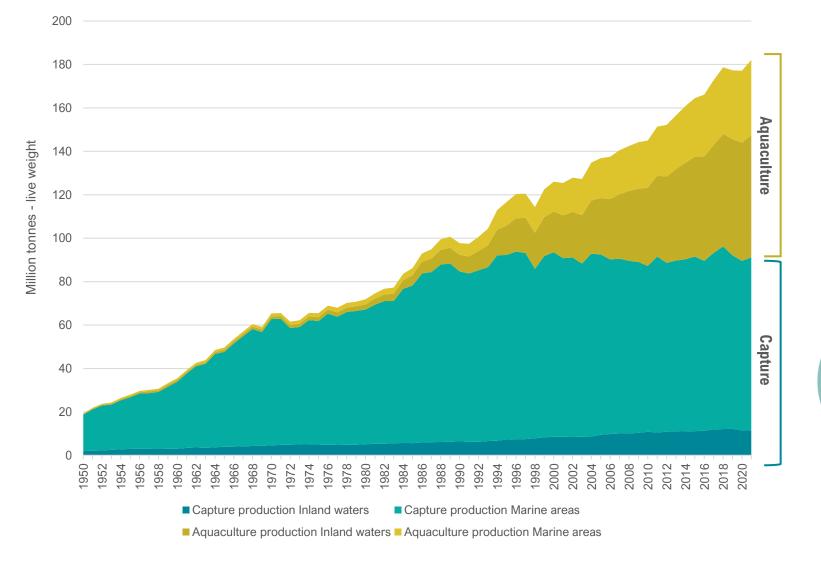
## **BIODIVERSITY Aquatic Production**

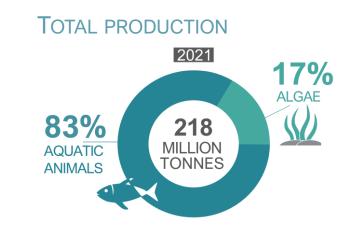
3 598 spp.

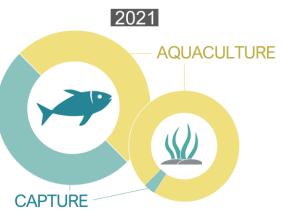
- 3 417 capture fisheries
- 710 aquaculture

Source: Fry et al., 2018 Source: FAO, 2024

### **TOTAL FISHERIES AND AQUACULTURE PRODUCTION 2021**

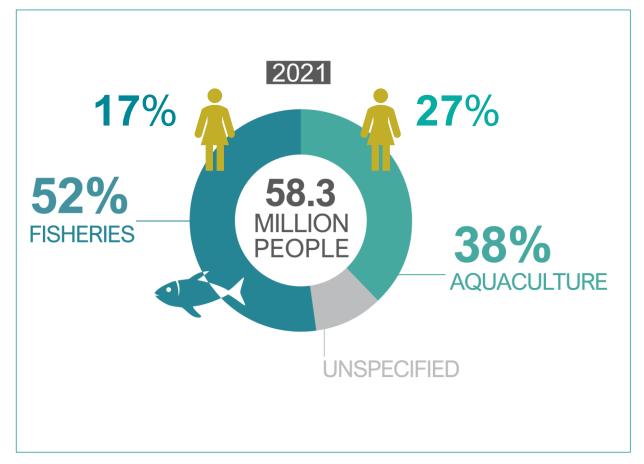


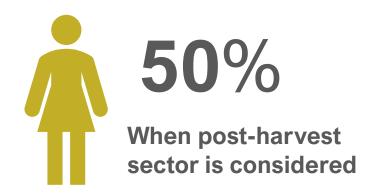




### **EMPLOYMENT**

### **PRIMARY SECTOR**





## 600 MILLION PEOPLE

Primary and secondary sector (post-harvest), subsistence and their dependents.

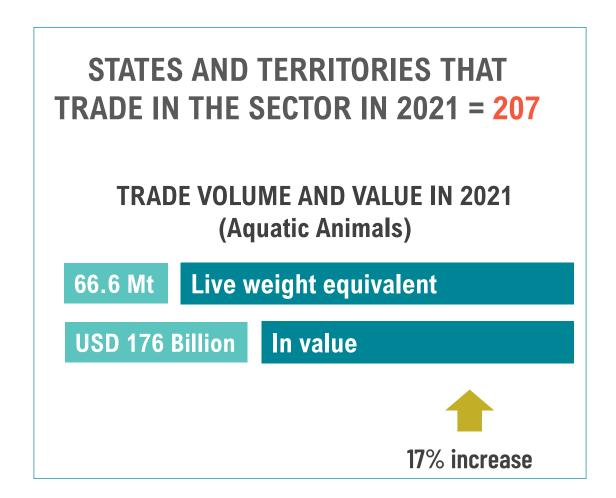
### **LOCAL ECONOMIES**

TOTAL FIRST SALE VALUE IN 2021= USD 428 BILLION

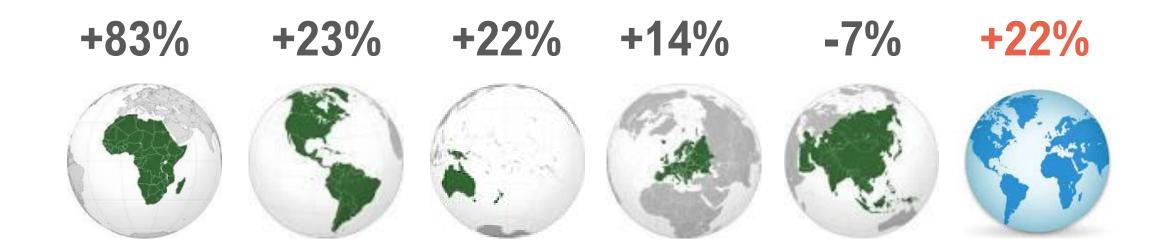


**AQUACULTURE USD 281 billion** 

**CAPTURE FISHERIES USD 147 billion** 



### How much more food is needed by 2050?





### THE NEED FOR A BLUE TRANSFORMATION



#### **OBJECTIVE 1**

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

#### **OUTCOME**

Sustainable aquaculture production grows by at least 35 percent by 2030, especially in food deficit regions.



### **OBJECTIVE 2**

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

#### **OUTCOME**

100 percent of marine and inland fisheries is under effective management and IUU fishing is eradicated.



### **OBJECTIVE 3**

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

#### **OUTCOME**

Loss and waste halved by 2030, more transparency and traceability is ensured for more inclusive and equitable returns.

## OBJECTIVE 1

SUSTAINABLE AQUACULTURE INTENSIFICATION AND EXPANSION SATISFIES GLOBAL DEMAND FOR AQUATIC FOODS AND DISTRIBUTES BENEFITS EQUITABLY.



## GUIDELINES FOR SUSTAINABLE AQUACULTURE



### REGULATORY FRAMEWORKS GUIDANCE BASED ON:

- BEST TECH DEVELOPMENTS
- IMPROVED ENVIRONMENTAL PERFORMANCE
- Regional and national best practices

## IMPROVING AQUACULTURE BIOSECURITY



**PROGRESSIVE MANAGEMENT PATHWAY** 

#### IMPROVING BIOSECURITY WITH

- GROUND-BREAKING INITIATIVES
- COST-EFFECTIVE MANAGEMENT OF RISKS

### **AQUAGRIS**



>600 AQUACULTURE SPECIES

#### DATA RELATED TO:

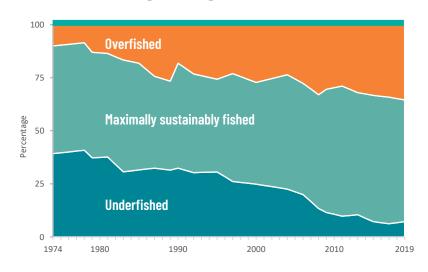
- AQUATIC GENETIC RESOURCES
- Conservation and sustainable use

## **OBJECTIVE 2**

EFFECTIVE MANAGEMENT OF ALL FISHERIES
DELIVERS HEALTHY STOCKS AND SECURES EQUITABLE
LIVELIHOODS.



## DATA COLLECTION, ANALYSIS AND REPORTING



#### **CAPACITY DEVELOPMENT FOR**

- EVIDENCE-BASE POLICY
- Science-based decision making
- Sustainability indicators

### **EAF Nansen Programme**



### >45 YEARS OF COLLABORATION IN 32 AFRICAN COUNTRIES

TO BUILD CAPACITY IN:

- FISHERY BIOLOGY
- EAF MANAGEMENT
- STOCK ASSESSMENT

#### **GLOBAL POLICY INSTRUMENTS**



#### **GUIDELINES AND AGREEMENTS**

- AGREEMENT ON PORT STATE MEASURES (PSMA)
- SSF Guidelines
- CATCH DOCUMENTATION SCHEMES, ETC.

## OBJECTIVE 3

UPGRADED VALUE CHAINS ENSURE THE SOCIAL, ECONOMIC AND ENVIRONMENTAL VIABILITY OF AQUATIC FOOD SYSTEMS.



### FISH4ACP



VALUE CHAINS ANALYSIS FOR UPGRADED VALUE CHAINS

- ECONOMIC IMPROVEMENTS
- ENVIRONMENTAL SUSTAINABILITY
- FOOD LOSS AND WASTE REDUCTION
- Social inclusiveness

#### **GUIDANCE ON TRACEABILITY**



END-TO-END TRACEABILITY THROUGH
CTES & KDES

- Define parameters of traceability
- CRITICAL FOR MARKED ACCESS, FOOD SAFETY AND ORIGIN

#### **G**UIDANCE ON SOCIAL RESPONSIBILITY

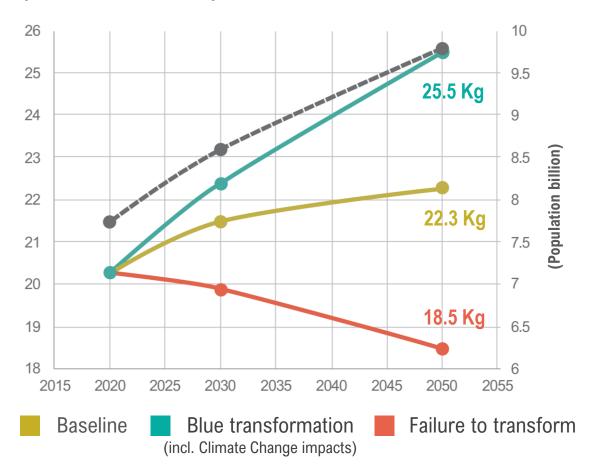


PROMOTING DECENT WORKING CONDITIONS

- SOCIAL PROTECTION
- LABOUR RIGHTS
- EQUITABLE SOCIAL PRACTICES

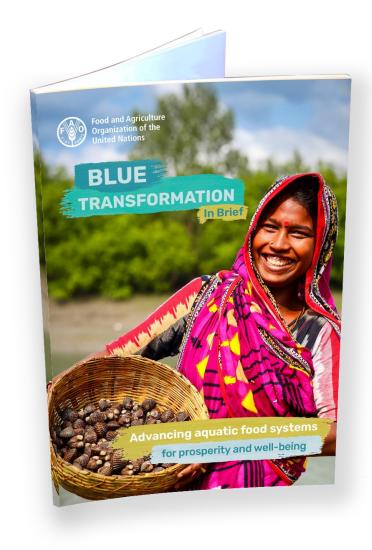
### TRANSFORMING AQUATIC FOOD WILL MEET TARGETS

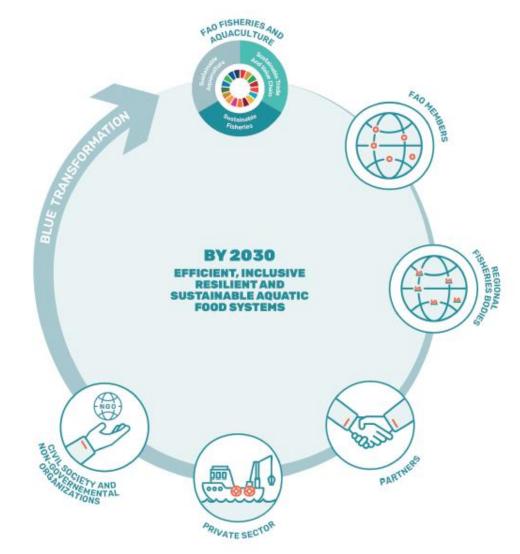
Per capita consumption (kg/yr) (Scenarios to 2050)





### Now is the time to act decisively and collectively





# THANK YOU

