

Blue Transformation for Sustainable Aquaculture



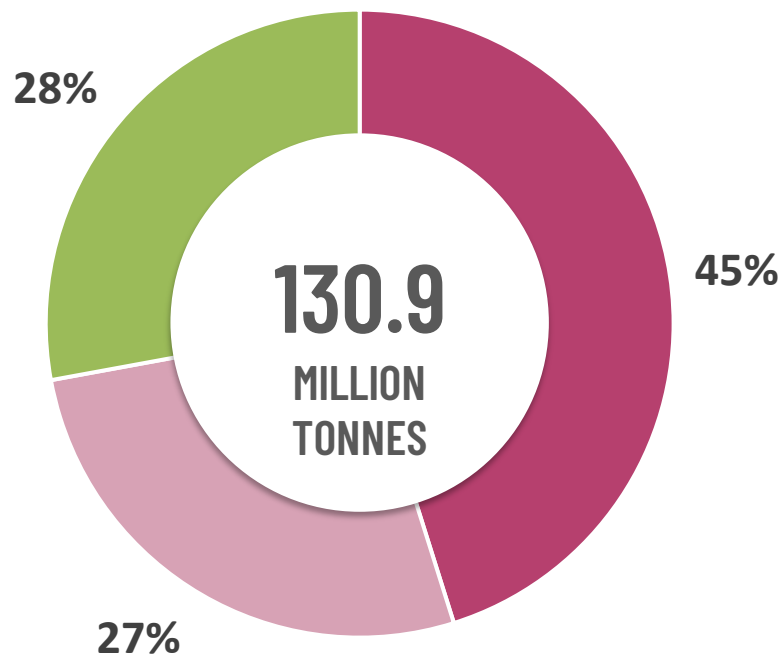
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Fishery Officer
FAO-UN



Food and Agriculture Organization
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WORLD AQUACULTURE PRODUCTION 2022









- Aquatic animals from inland aquaculture
- Aquatic animals from coastal and marine aquaculture
- Algae

Aquaculture Development

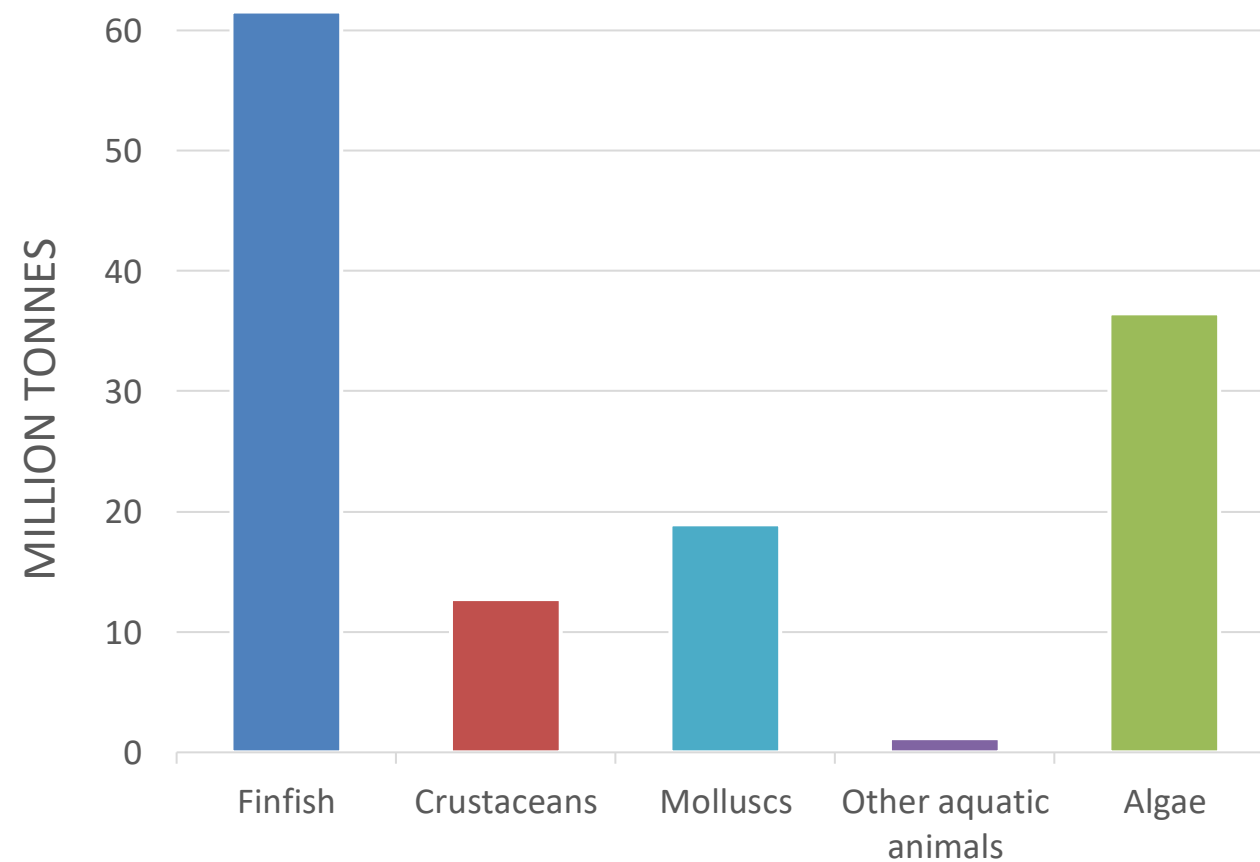
Growth 2000-2022 (%)

Africa	455 %
Americas	242 %
Asia	208 %
Europe	72 %
Oceania	80 %

TOP PRODUCERS

Rank	Country	Million tonnes	Share
#1	China 	52.9	56.0
#2	India 	10.2	10.8
#3	Indonesia 	5.4	5.7
#4	Viet Nam 	5.2	5.5
#5	Bangladesh 	2.7	2.9
	Rest of the world 	18.0	19.1
	Total	94.4	100

BY SPECIES GROUP

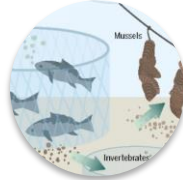


Feeding the world through sustainable aquaculture intensification & expansion

Aquaculture expansion



Expanded area



Diversified species



Diversified systems



Environmental restoration



Eco-tourism

Aquaculture intensification



Aquafeed supply and management



Modern technology and digitalization



Quality seed supply and genetic resources



Farm and biosecurity management



Effluent and energy management



OBJECTIVE 1

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

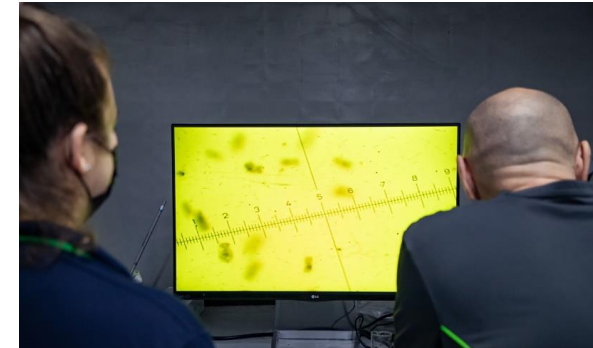
OUTCOMES

- 35 % growth in sustainable aquaculture production by 2030
- Growth in employment and skilled labour improves income and livelihoods.
- Productive employment and decent work

2024 GUIDELINES FOR SUSTAINABLE AQUACULTURE



REFERENCE CENTRES FOR AQUACULTURE BIOSECURITY



ACTION PLAN AND INFORMATION SYSTEM ON AQUATIC GENETIC RESOURCES (AQUAGRIS)



CHALLENGES TO AQUACULTURE DEVELOPMENT



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Poor Sector Governance

Limited access to finance and insurance

Access to feed, seed and technology

Human capacity

Value Chain development

Biosecurity and Disease Control



Introducing the Guidelines for Sustainable Aquaculture



Goals of Guidelines for Sustainable Aquaculture

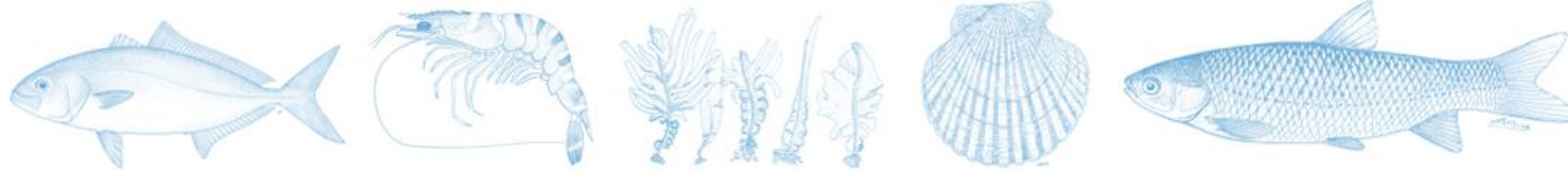


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- **Provide** guidance for sustainable aquaculture growth.
- **Enhance** aquaculture's contribution to global food security and nutrition.
- **Improve** the lives of communities through decent work and economic growth.
- **Contribute** to sustainable use, responsible management, conservation and restoration of living aquatic resources, ecosystems and biodiversity.



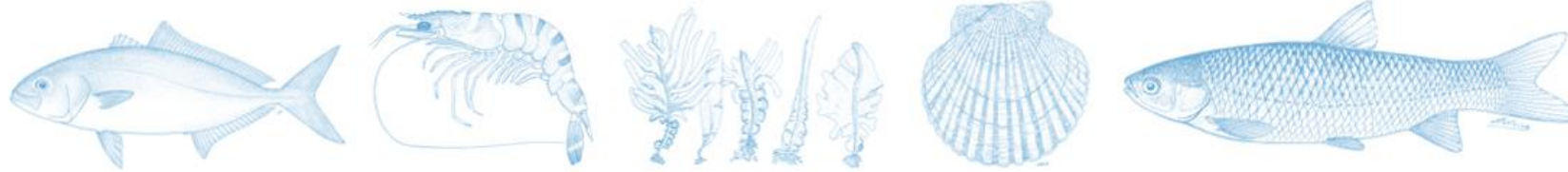
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Developed by FAO and its Members
through:

- 4 COFI:AQ meetings
- 6 Regional consultations
- 2 Expert consultations
- 1 Task force

Shared and agreed text prepared through
an **open, inclusive, participatory** and
transparent consultation process.



- **Consensus:** underscore the global recognition of the importance of aquaculture.
- **Environment:** aquaculture development must continue reducing its environmental impact.
- **Practices:** productive, efficient, resilient, climate-smart and socially and environmentally responsible.
- **Future:** a sustainable mature sector.



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Key criteria for sustainable aquaculture



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Good Governance

- Provides accountability, equity, efficiency, rule of law, and inclusive policymaking

Sustainable Use

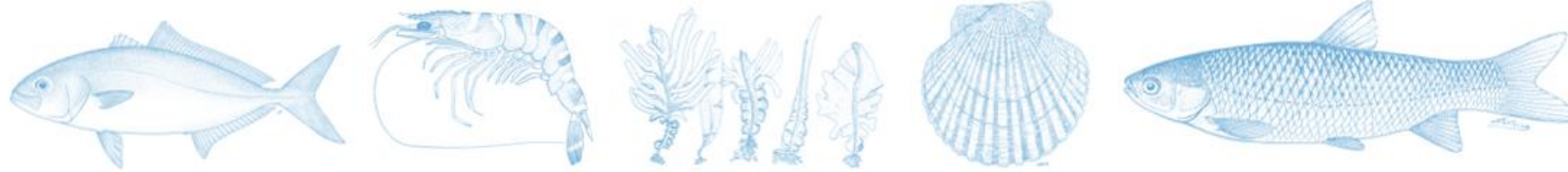
- Minimizes environmental impacts, optimizing water use and innovative farming practices

Social responsibility

- Gender considerations
- Fair labour practices

Competitive value chains

- Market access
- Sustainability
- Investment and policy support



Key criteria for sustainable aquaculture (2)



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Ecosystem approach

- Mitigates negative impacts through careful scaling, site selection, and production methods

Public private partnerships

- Fosters research, technological innovation and investment

Monitoring and reporting

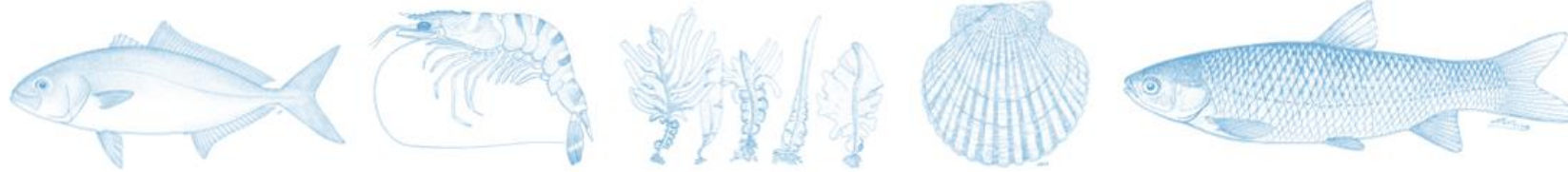
- Assesses the effectiveness of measures to develop aquaculture

Inclusivity

- Addresses the needs and priorities of local communities and ecosystems

Cooperation

- Fosters knowledge exchange, financial support



Content of the Guidelines for Sustainable Aquaculture



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A – VISION, OBJECTIVES, SCOPE AND GUIDING PRINCIPLES

1 Vision and objectives

2 Nature and scope

3 Guiding principles

B – GUIDELINES FOR PROMOTING SUSTAINABLE AQUACULTURE

4 Governance and planning

5 Sustainable resource use, ecosystem and farm management

6 Social responsibility, decent work and gender equality

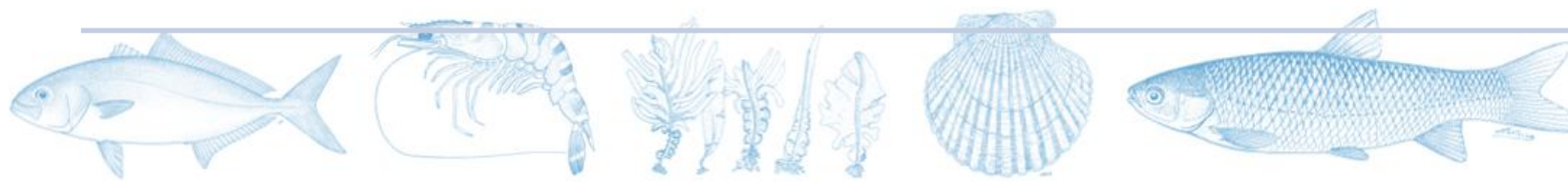
7 Value chains, market access and trade

C – IMPLEMENTATION AND MONITORING OF THE GUIDELINES FOR SUSTAINABLE AQUACULTURE

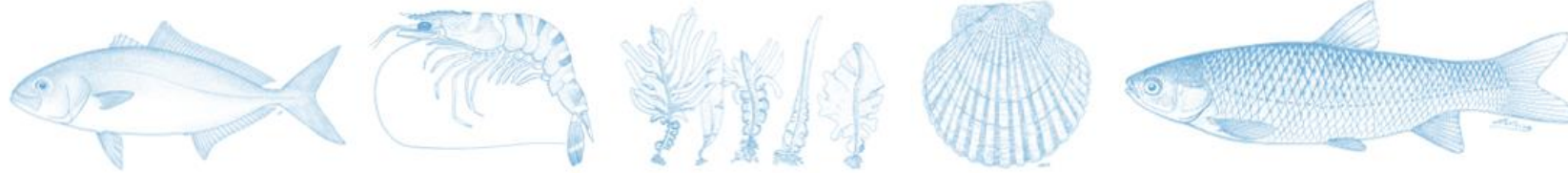
8 Mechanisms and services required to support sustainable aquaculture development

9 Implementation arrangement and technical support

10 Monitoring, data collecting, data analysing and reporting



- Global network of aquaculture research institutions and stakeholders.
- Partners collaborate to share successful solutions to develop sustainable aquaculture.
- Experts share information and knowledge to overcome obstacles.





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THANK YOU

