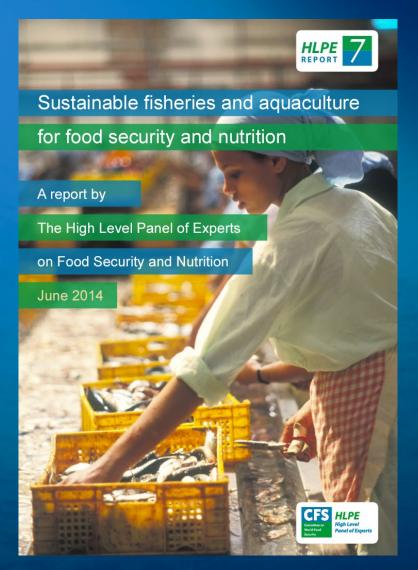
Global Initiatives for more Sustainable Aquaculture Production from the Ocean

Livar Frøyland, Professor Dr. Philos

Program Director, Institute of Marine Research, Norway



Fish on the 'food' agenda



"Fish is strikingly missing from strategies for reduction of micronutrient deficiency, precisely where it could potentially have the largest impact"

"Fish deserves a central position in food security and nutrition strategies"



Towards a Global Action Network

- 2014:
 - UN Committee on World Food Security (CFS) HLPE report
 - CFS policy recommendations
- "Make fish a visible, integral element in food security and nutrition strategies, policies and programmes"

national Conforces

→ Fish AS FOOD

"Eradicate hunger and prevent all forms of malnutrition"

BDG)

nutrition concerns into

"Enhance sustainable food systems"

relatea policies and

• 2016: UN E programs"

→ Fish IS FOOD

utrition



2016-2025



Launch of a Global Action Network

Date: 6 June 2017

Time Slot: 18:30-19:45

Venue: Conference Room A, UN Conference Building

- "Sustainable, resilient food systems for healthy diets" one of six action areas
- Action Networks to accelerate implementation
- WHO/FAO secretariate supports the action networks
- The Global Action Network activities are reported to the UN Secretary General by the WHO/FAO secretariate

Sustainable Food from the Ocean for Food Security and Nutrition

Invitation to join a Global Action Network

The United Nations Decade of Action on Nutrition

Accelerate implementation of the ICN2 commitments by 2025 Achieve the global nutrition and diet-related NCD targets by 2025 Contribute to the realization of the SDGs by 2030

Sustainable, resilient food systems for healthy diets is recognized as one of the six action areas in the Nutrition Decade's work programme.

Sustainable food from the ocean contributes to:

Food security and nutrition
High quality protein, micronutrients and fatty acids
Income and livelihoods for numerous communities

Invitation

This invitation is to announce that Norway will establish an action network for
Sustainable Food from the Ocean for Food Security and Nutrition
under the umbrella of the UN Decade of Action on Nutrition.

Next Step

Identify other interested countries that would like to play an active role in establishing or joining the network. Identify a forum in the near future where interested Member State representatives can meet to discuss the set up of the action network.



Norwegian Ministry of Trade, Industry and Fisheries



To learn more or express your interest, please contact:

Ms. Anita Utheim Iversen, Senior Adviser Norwegian Ministry of Trade, Industry and Fisheries aui@nfd.dep.no www.who.int/nutrition/decade-of-action/en/





Global Action Network
Sustainable Food from the Ocean and Innland Waters
for Food Security and Nutrition



UNITED NATIONS DECADE OF ACTION ON NUTRITION



Anita **Utheim-Iversen** (Focal point))











Nina Liland

Maria Wik Markhus

Rita Hannisdal

Yiou Mike Zhu

Marian Kjellevold

Anne-Katrine Lundebye

Livar Frøyland

Global Action Network Lead and Secreteriate function

















Global Action Network TaskForce 2022

















Global Action Network National Working Group in Norway

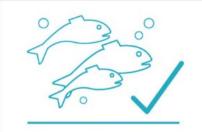
Food security

"Food security (is) a situation that exists when ALL PEOPLE, **AGENCY** AT ALL TIMES, have STABILITY (SHORT TERM) PHYSICAL, SOCIAL AND ECONOMIC ACCESS to SUSTAINABILITY (LONG TERM) SUFFICIENT, **ACCESS SAFE AND NUTRITIOUS** food that meets their **AVAILABILITY DIETARY NEEDS** and UTILIZATION **FOOD PREFERENCES** for an active and healthy life."



Knowledge and solutions related to the key elements of food security

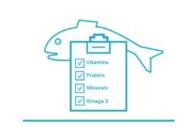




Sufficient aquatic food



Safe aquatic food



Nutritious aquatic food



Dietary needs



Food preferences



Leaving no one behind



Towards common goals

https://nettsteder.regjeringen.no/foodfromtheocean/



EN Discussion Paper



The role of aquatic foods in sustainable healthy diets





Table of contents

Dackground

1.	background	,
2.	Introduction	í
3.	Overview of healthy diets	7
	Aquatic foods in nutrition and public health	7
	Food-based dietary guidelines	12
	Dietary patterns and the consumption of aquatic foods	1
	Future foods: A menu of solutions for future aquatic food consumption	20
4.	The sustainable supply of aquatic foods	24
	Sustainable supply of aquatic foods: Capture fisheries and aquaculture	24
	The sustainable supply of aquatic foods: Fiscal instruments and policies	2
	The sustainable supply of aquatic foods: Reduced food loss and waste	28
	Sustainable supply of aquatic foods: Projecting the contribution of fisheries and aquaculture to nourishing the world in 2030 and beyond	30
5.	Food safety, risks and benefits of aquatic foods	33
	Food safety concerns over aquatic food products	33
	Health risks and benefits of aquatic foods	34
6.	COVID-19 and aquatic foods	35
7.	Recommendations and conclusions	37
Ann	ex 1. Selected nutrients and their human consumption benefits	40
Ann	ex 2. Projections of fish production in 2050 under three scenarios	4
Ref	erences	42
Acronyms		58
https://www.unnutrition.org/news/launch-aquatic-foods/		

The role of aquatic foods in sustainable healthy diets





Food Systems Summit 2021

Search Q

A-Z Site Index

Home About » News » Events » Take Action » The Science Summit Dialogues Summit Community » Press » Documents and Reports

The Summit

Pre-Summit

Upcoming Events

Past Events





Photo: isaw_company/Unsplash

https://www.un.org/en/food-systems-summit/pre-summit





Food Systems Summit 2021

Search Q

A-Z Site Index





Aquatic food system



Sustainable Oceans

Healthy Waters

Prevent pollutants, micro plastics, ght and adapt climate change etc.) Sustainable

fishery/aquaculture

(increased sustainable production, ecosystem based management, prevent overfishing, IUU, discard, improve technology etc.).

Sustainable handling from harvest to people

(keep quality, food safety, monitor, reduce loss/waste, HACCP, traceability, logistics, cooling systems etc.)

Sustainable aquatic foods

(Healthy People - Healthy Planet: increased seafood consumption, availability, affordability, preferences, safety, nutritious, quality, taste, origin, ethics, knowledge: healthy eating habits, food preparation etc.)

Sustainable fishery

Harvesting

Catch on board

Healthy Waters

Port landing



Value Chain

Each link influence availability, safety, quality, nutrients, ethics, taste etc.

aquatic



Healthy People

Fish available

Food available Transport

Processing Storage

Packaging

Market

Consumer

Transparent science-based advise systems for management, policy and business

foods

Food security:

- access
- sufficient
- safe
- · nutritious
- dietary needs
- · food preferences



Sustainable aquaculture

Feed, medication, gear















Food for the world

- Investment and innovation in aquaculture can lead to + 15 million tonnes of food from the ocean
 - Reduced prices
 - Reduced malnutrition
- Aquatic Foods Composition Database – a vital resource for future work on aquatic food systems

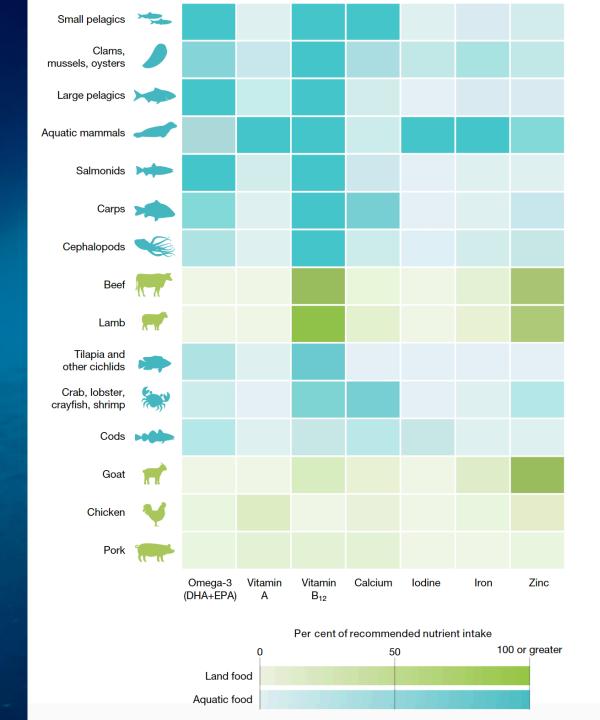


Article

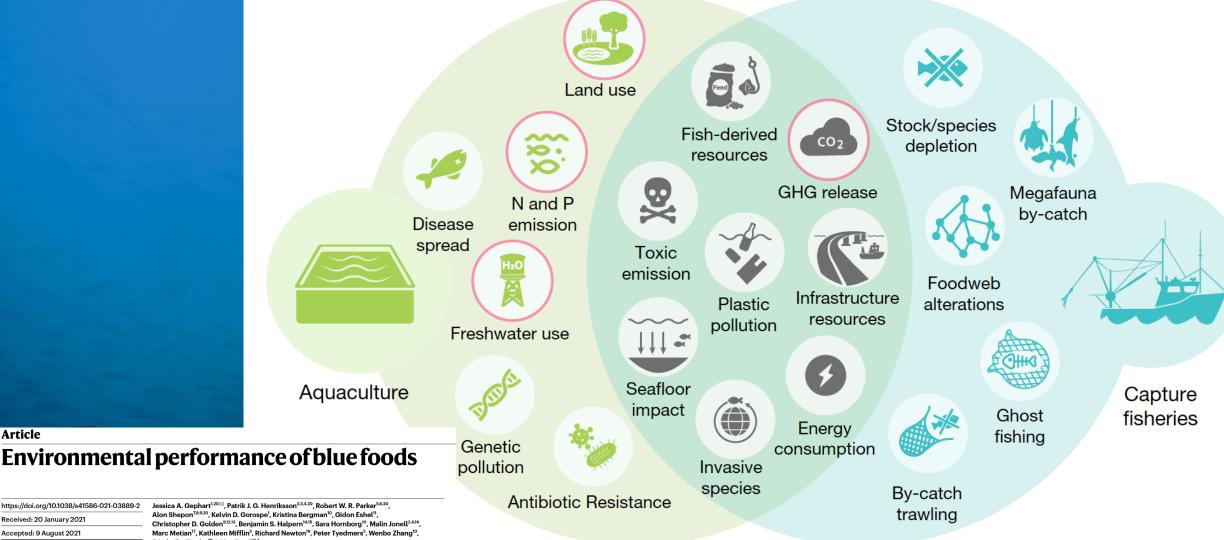
Aquatic foods to nourish nations

https://doi.org/10.1038/s41586-021-03917-1 Christopher M. Free^{7,8,26}, Daniel F. Viana^{1,9,26}, Holger Matthey¹⁰, Jacob G. Eurich^{8,11} Received: 18 January 2021 Jessica A. Gephart¹², Etienne Fluet-Chouinard¹³, Elizabeth A. Nyboer¹⁴, Abigail J. Lynch¹⁵ Accepted: 16 August 2021 Marian Kjellevold¹⁶, Sabri Bromage¹, Pierre Charlebois¹⁷, Manuel Barange¹⁷, Stefania Vannuccini¹⁷, Ling Cao¹⁸, Kristin M. Kleisner¹⁹, Eric B. Rimm¹, Goodarz Danaei^{3,20} Published online: 15 September 2021 Camille DeSisto²¹, Heather Kelahan¹, Kathryn J. Fiorella²², David C. Little²³, Check for updates

Christopher D. Golden^{1,2,3,26 ⋈}, J. Zachary Koehn^{4,26}, Alon Shepon^{1,5,6,26}, Simone Passarelli^{1,26}, Edward H. Allison²⁴, Jessica Fanzo²⁵ & Shakuntala H. Thilsted²



Blue (Aquatic) foods have a lower environmental footprint than terrestrial meat production



https://doi.org/10.1038/s41586-021-03889-2

Received: 20 January 2021 Accepted: 9 August 2021

Article

Published online: 15 September 2021

Jessica A. Gephart^{1,20 ⊠}, Patrik J. G. Henriksson^{2,3,4,20}, Robert W. R. Parker^{5,6,20} Alon Shepon^{7,8,9,20}, Kelvin D. Gorospe¹, Kristina Bergman¹⁰, Gidon Eshel¹¹, Christopher D. Golden 9,12,13, Benjamin S. Halpern 14,15, Sara Hornborg 10, Malin Jonell 2,4,16, Marc Metian¹⁷, Kathleen Mifflin⁵, Richard Newton¹⁸, Peter Tyedmers⁵, Wenbo Zhang¹⁹, Friederike Ziegler¹⁰ & Max Troell^{2,4}



Global Action Network
Sustainable Food from the Ocean and Innland Waters
for Food Security and Nutrition



UNITED NATIONS DECADE OF ACTION ON NUTRITION

Concept → Mission → Action

- Ambition: Mobilise actions to include aquatic food as key food source for food security and nutrition
- Cross sectorial collaboration to reach already agreed goals and commitments
 - Include aquatic foods in food security and nutrition
 - Include food security and nutrition in fisheries and aquaculture
- Support each other to increase sustainable harvesting, production and consumption of safe and nutritious aquatic foods globally



Working group

UN International Year of Artisanal Fisheries and Aquaculture → CFS 49 (2022)

Working group

food and feed within planetary boundaries

→ UN Ocean conference 2022



Rome - October 2017

- | Rome July 2018
- G 1st meeting Global Action Network, From Healthy Waters to Healthy
- N People, Rome, 5 July 2018, FAO Headquarters





Thank you for your attention