Gain and share

This gain and share document serves as basis to develop the '<u>Gain and Share Tool</u>' at the global action network web page. Through the Gain and Share Tool, network participants can gain and share knowledge to promote sustainable food from the oceans and Inland waters for food security and nutrition. Elements in this dynamic document are results from input and suggestions by the network's members and some may be more detailed than others.

By exchanging best practices from different nations, through identifying challenges, resources and achievements, we can foster mutual learning related to the key elements of food security: 'sufficient', 'safe', 'nutritious', 'dietary needs', 'food preferences', and 'leaving no one behind'. Many actors play important roles to realize the potential of aquatic foods contribution to food security and nutrition, thus "towards common goals" is also added as key element and a part of the Gain and Share Tool.

The key elements are listed separately with subsections of identified challenges related to aquatic foods paired with knowledge and solutions. References to the relevant Sustainable Development Goals (SDG) and recommendations from the Committee on World Food Security (<u>CFS policy recommendations</u>) are also added. Examples of SMART commitments (Specific, Measurable, Achievable, Relevant and Timebound) by network members will be included as examples under solutions. For some challenges, knowledge (scientific research and reports etc.) and solutions (guidelines, actions and tools) may already be available, while for others, new knowledge and solutions will need to be identified. These gaps will be denoted with 'LINK?' Some examples of 'knowledge' and 'solutions' may be relevant to more than one challenge; thus, these may be mentioned more than once. Aquatic foods will be the term used throughout the document and refers to all (edible) plant and animal sources from oceans and inland waters - suitable, known or unknown, for human consumption.

Key element SUFFICIENT AQUATIC FOOD

The key element SUFFICIENT refers to the amount of food from oceans and inland waters available for human consumption and relies on: amount of food we can harvest, produce and preserve; reduction of food loss and waste; and access to affordable aquatic food. Relevant SDGs related to this element are SDG 2, 3, 4, 6, 9, 12, 14, 16 and 17.

Challenges	Knowledge	Solutions	SDG	CFS
	CFS HLPE #7 'Sustainable fisheries and aquaculture for food security and nutrition'	<u>CFS policy recommendations</u> 'Sustainable fisheries for food security and aquaculture for food security and nutrition'		
	 Sustainable utilization of marine living resources <u>EAF Nansen programme</u> Ecosystem Approach to Fisheries (FAO) <u>ICES</u> The International Council for the Exploration of the Sea 	 Monitoring national fisheries Fisheries monitoring Centre (Norway) Stock assessment for data limited fisheries LINK? Act relating to the management of wild living marine resources (NO) 	2, 4, 9, 12, and 14	4A.4 and 4C
	Multi- and bilateral projects - <u>EAF Nansen programme</u> Ecosystem Approach to Fisheries (FAO)	Examine the potential to use mesopelagic resources LINK? Implementation of guidelines - Securing sustainable small-scale fisheries: Showcasing		
	Monitoring for scientific advice - <u>The Ecosystem Approach to Fisheries (EAF)</u>	applied practices in value chains, post-harvest operations and trade		
Sustainable fisheries management	Illegal, Unreported and Unregulated (IUU) fisheries - <u>Blue Resilience Project</u> (UNDP)	Illegal, Unreported and Unregulated (IUU) fisheries - <u>Blue Justice Initiative</u>		
	 Reports Assessment of commitments on sustainable fisheries to the Our Ocean conferences Fisheries in the drylands of sub-Saharan Africa -Fish come with the rain (FAO) CFS HLPE #7 'Sustainable fisheries and aquaculture for food security and nutrition' The State of World Fisheries and Aquaculture biennial reports (FAO) CFS HLPE #17 'Data collection and analysis tools for food security and nutrition' 	 Resource Convention on Biological Diversity (CBD) target 6 (quick guide) (ICSF) Sea Around Us the FishPath tool Guidelines Voluntary Guidelines on the Progressive Realization of the Right to Adequate Food (No. 2 and 8E) (FAO) 		

Sustainable feed ingredients

Ocean to oven

Reports

- Demand and supply of feed ingredients for farmed fish and crustacean
- CFS HLPE #7 'Sustainable fisheries and aquaculture for food security and nutrition'
- The State of World Fisheries and Aquaculture biennial reports (FAO)
- The Ocean as a Solution to Climate Change:
- Updated Opportunities for Action (Ocean Panel)

	 Sustainable feed ingredients <u>AquaVitae</u> Atlantic consortium looking for sustainable solutions for aquaculture 	2, 4, 12, 14, 16 and 17	3, 4B, and 4D
<u>k</u>	- Insects for Peace Guidelines	2.5, 12.2, 12.6,	
e	 <u>Voluntary Guidelines</u> on the Progressive Realization of the Right to Adequate Food (No. 2, 3, 8 (E and F)) (FAO) 	14.c, 16.6, 17.14 and 17.15	

Implementation of guidelines

Guidelines for Sustainable Aquaculture (GSA). Regional consultations started in 2019. There is a report on the Regional Consultation on Africa (FAO)

Non-fed aquaculture for food and feed

Seaweed production: 'Ocean Forest'; 'Red Seaweed Promise'; 'Safe seaweed by design protocols'

Transparency and traceability (collate, compile and

summarise existing information)

- Data from Norwegian aquaculture
- Sustainability in the Irish seafood sector

Reduce food loss and waste in the value chain

- Food loss and waste in fish value chain, FAO web tool
- Food Heroes North-West Europe initiative to reduce 6.4, food losses in fish, meat and fruit & vegetable sector 12.3, 12.5
- Stop food waste program (Ireland)
- Improved post-harvest technologies (e.g. such as smoking ovens, and drying racks) LINK?
- Solutions for Reducing Food Loss and Waste (FLW) (FAO)

SMART commitments

Norway has made a SMART commitment to by 2030 halve per capita global food waste at the retail and consumer levels and reduce food losses along

Sustainable aquaculture production

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Reports

- CFS HLPE #8 'Food losses and waste in the context of sustainable food systems'
- Right to food Discussion paper' Food loss and waste and the right to adequate food: making the connection'

Food loss and waste Resources

Food Loss and Waste in Fish Value Chains (FAO)

- 4A.5

- 12

- 6 and

			production and supply chains, including post-harvest loses		
D	Transparency and traceability	Reports - Seafood traceability for fisheries compliance	National industry standards Automated and differentiated calculation of sustainability for cod and haddock products (EU)	2, 12, 14, 16 and 17 2.5, 12.2, 12.6, 14.c, 16.6, 17.14 and 17.15	4B and 4D
E	Climate change	 Research project WGIBAR ICES Working Group on the Integrated Assessments of the Barents Sea Reports 'Cyclone Ockhi -Disaster risk management and sea safety in the Indian marine fisheries sector' 'FAO's work on climate change -Fisheries & aquaculture 2019' (FAO) Decision-making and economics of adaptation to climate change in the fisheries and aquaculture sector (FAO) UN Climate report 	Climate change on aquaculture should also be included here		
F	Impacts of climate change on fisheries	 Surveillance programs EAF Nansen program Ecosystem Approach to Fisheries (FAO) FAO's work on climate change Fisheries & aquaculture 2019 (FAO) Decision-making and economics of adaptation to climate change in the fisheries and aquaculture sector (FAO) The Ocean as a Solution to Climate Change: Updated Opportunities for Action (Ocean Panel) 	Adaptation toolbox for fisheries to climate change (FAO) LINK? The Ocean as a Solution to Climate Change: Updated Opportunities for Action (Ocean Panel)		
G	Ensuring Biodiversity				

G Ensuring Biodiversity

Resources

- <u>COVID-19 impacts on Fisheries and</u> <u>Aquaculture(FAO)</u>
- <u>COVID-19 response: Fisheries and aquaculture (EC)</u>
- Fisheries, aquaculture and COVID-19: Issues and policy responses (OECD)
- <u>COVID-19 impacts on fish and aquatic food</u> <u>systems</u> (WorldFish)
- Information on COVID-19 and small-scale fisheries (FAO)

Covid-19

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Key element SAFE AQUATIC FOOD

The key element SAFE AQUATIC FOOD refers to optimising food safety as it is a prerequisite for increased consumption of aquatic food. Actions linked to this key element rely on understanding: the connection between hygienic production and foodborne illness; the connection between environmental pollution; food production and human health; how contaminants and pollutants end up in the food (value) chain; and levels of contaminants. Relevant SDGs related to this element are SDG 2, 3, 4, 6, 7, 8, 9, 12, 14, 16 and 17.

<u>L7</u> .	Challenges	Knowledge	Solutions	SDG	CF S
		CFS HLPE #7 'Sustainable fisheries and aquaculture for food security and nutrition'	<u>CFS policy recommendations</u> 'Sustainable fisheries for food security and aquaculture for food security and nutrition'		
Α	General food safety	 <u>Illuminating Hidden Harvests</u> (FAO) 	 Food Safety Authorities (legislation, enforcement) Food Safety Authority of Ireland Norwegian Food Safety Food standards, guides and codes of practice Codex Alimentarius (FAO) Guidelines Voluntary Guidelines on the Progressive Realization of the Right to Adequate Food in the Context of National Food Security (No. 9) (FAO) 		
В	Hygiene	 Cooling systems <u>'Cold' handling and storage systems</u> (FAO) Monitor for knowledge on improved ovens for smoking, drying racks, preparation of fish powder etc. LINK? on climate changes affecting preservation LINK? Research project SmallFishFood 	 Food standards, guides and codes of practice <u>Codex Alimentarius</u> (FAO) Innovation for better methods of preservation Streamlining fish processing- Shifting from smoking ovens to the FTT-Thiaroye system (FAO) Application of Appropriate Technology for Artisanal Fish Drying (FAO) Improvement of human skills to handle food Capacity development for small-scale post-harvest and trade actors, in particular women Towards gender-equitable small-scale fisheries governance and development (FAO) 	2, 4, 7, 8, 9 and 17 2.1, 7.1, 7.a, and 7.b. 4.7, 7.a, and 9.4, 9.b, and 17.7. 4.7, 7.a, 8.2, 8.3, 9.4, 9.b, and 17.7	4A.3 and 4B

		Increase knowledge on contamination and food safety in fish - Dioxins and their effects on human health (WHO)	Food standards, guides and codes of practice - <u>Codex Alimentarius</u>	3, 6, 12, 14, and 16 3.b, 3.9,	
		 Food safety fact sheet (WHO) 	 Developing transparent national databases <u>Seafood database</u> Contaminant and nutrient levels in fish and seafood (Norway) 	3.b, and 3.b, and 17.18 6.3, 12.4, 14.1,	
		Monitoring programs		14.1, 14.c, and	
		- IMR seafood monitoring (Norway)	Make research on contaminants easily accessible to public	14a	
		Feed with low levels of contaminants and pollutants LINK?	 <u>Contaminants in the fish caught</u> (Finland) <u>Seafood database</u> (Norway) 		
			- Fishchoice tool LINK?		
		Connection to terrestrial industry, Contaminants and			
		pollutants from land-based industry ending up in	Specific recommendations for eating fish and seafood		
		waters	from polluted areas		
2	Contaminants	- <u>Water pollution from agriculture:</u> a global review (FAO)	- <u>Restrictions</u> from known polluted areas (Finland)		
			Finding the source of contamination		
		Risk-benefit reports	- The Hazard Analysis Critical Control Point (HACCP)-		
		 <u>Report of the Joint FAO/WHO Expert Consultation</u> on the Risks and Benefits of Fish Consumption 	system (FAO)		
		 (FAO/WHO) A quantitative assessment of the net effects on 	Use sustainable and safe feed ingredients LINK?		
		fetal neurodevelopment from eating commercial fish (US FDA)	Action across boarders ensuring healthy clean waters LINK?		
		- Statement on the benefits of fish/seafood			
		consumption compared to the risks of methylmercury in fish/seafood (EFSA)			
		 <u>Benefit and risk assessment of fishin the</u> <u>Norwegian diet – an update</u> (VKM) 			

4B.4

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executives (FAO)

	 Teaching plans and information brochures Public education and communication (FAO) 	 Examples from countries Consumer information from health and food authorities (Norway)
Consumers lack of knowledge	 Report <u>Consumers and the right to adequate food</u> <u>Consumer organizations in action. A collection of practices driving the right to adequate food</u> 	 Guidelines <u>Voluntary Guidelines</u> on the Progressive Realization of the Right to Adequate Food in the Context of National Food Security (No. 9) (FAO)
Covid-19	Resources - Information on COVID-19 and small-scale fisheries (FAO)	 Sensitization Workshop <u>COVID-19 sensitization for NAFPTA (National</u> Fishworkers and Traders Association of Ghana)

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Key element NUTRITIOUS AQUATIC FOOD

The key element NUTRITIOUS AQUATIC FOOD concerns nutrient composition of aquatic food. Relevant, reliable and recent food composition data published open access are important for assessing the nutrient content. Also, it is important to understand how conservation, storage and preparation may influence nutrient content. Nutrient content of feed may affect the nutrient content of food. Relevant SDGs related to this element are SDG <u>2</u>, <u>3</u>, <u>4</u> and <u>17</u>

Challenges	Knowledge	Solutions	SDG	CFS
	CFS HLPE #7 'Sustainable fisheries and aquaculture for food security and nutrition'	<u>CFS policy recommendations</u> 'Sustainable fisheries for food security and aquaculture for food security and nutrition'		
A Ensuring data on nutrients in aquatic food	 Collecting data EAF Nansen program Ecosystem Approach to Fisheries (FAO) Small Fish Food Interdisciplinary research project with a sub-goal of assessing nutritional quality and safety of small fish along the value chains Blue Food Assessment Paper which will compiles nutrient information on aquatic foods to be released prior to the 2021 UN Food Systems Summit Reports Illuminating Hidden Harvests (fao.org) 	 Databases with open access FAO/INFOODS (International Network of Food Data Systems) Food Composition Databases (FAO) Seafood database Contaminant and nutrient levels in fish and seafood (Norway) FAO/INFOODS Global food composition database for fish and shellfish FAO/INFOODS Food Composition Database for Biodiversity Afrofoods – Food composition, based on analytical data of African foods NUTRAQUA Nutritional composition of aquatic products (France) EUROFIR (European Food Information Resources) Member-based food composition datasets from 30 countries worldwide Search FishBase Aquatic Food Composition Database (harvard.edu) 	2 and 17 3.d and 17.18	4A.1 and 4A.6

Useful tools

- Fishchoice tool LINK?

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Report

- <u>UNSCN Discussion paper</u> 'Aquatic foods in sustainable healthy diets' (FAO)
- CFS HLPE #12 'Nutrition and food systems'

Teaching plans and information brochures LINK?

Food and nutrition programmes

- <u>The State of School Feeding Worldwide 2022</u> (WFP)
- <u>School based food and nutrition education</u> (FAO)

Attention and literacy of aquatic food as

important food sources

В

Tool for dietary reference values	2 and 3	2, 4A.1 and
 <u>EFSA's dietary reference values</u> 	3.d,	4A.6
Nutrition recommendations and food based dietary	2.1, 2.2, 3.b.	
 guidelines Food-Based Dietary Guidelines in Europe (EFSA) 	and 3.d	
 Food-Based Dietary Guidelines (FAO) 	4.1 and 4.7	

Dietary recommendations and advices regarding aquatic food

- <u>Summary of FBDG recommendations for fish for the</u> <u>EU, IS, NO, CH, and UK</u> (EFSA)
- Advice about Eating Fish (US FDA)
- <u>School based food and nutrition education</u> (FAO)

Food and nutrition programmes

- Fiskesprell (Norway)
- <u>A Guide to Serving Local Fish in School Cafeterias</u> (ICES, US)
- Improving livelihoods and nutrition for women and children (India)
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- <u>School feeding programmes</u> (FAO)

Guidelines

 <u>Voluntary Guidelines</u> on the Progressive Realization of the Right to Adequate Food in the Context of National Food Security (No. 9, 10 and 11) (FAO)

Key element DIETARY NEEDS

The key element DIETARY NEEDS refer to the fact that consumption of fish can play a unique role in providing healthy nutrients to reduce the burden of disease. Also, cognitive development and growth can be improved by increasing fish consumption not only in the first 1000 days, but throughout adolescence. This key element covers actions to optimise consumption of aquatic food as part of a healthy diet. Relevant SDGs related to this element are SDG 2, 3, 4, 5, 14 and 16.

Challenges	Knowledge	Solutions	SDG	CFS
	CFS HLPE #7 'Sustainable fisheries and aquaculture for food security and nutrition'	<u>CFS policy recommendations</u> 'Sustainable fisheries for food security and aquaculture for food security and nutrition'		
A Low consumption of aquatic food	 Risk-benefit reports Report of the Joint FAO/WHO Expert Consultation on the Risks and Benefits of Fish Consumption (FAO/WHO) A quantitative assessment of the net effects on fetal neurodevelopment from eating commercial fish (US FDA) Statement on the benefits of fish/seafood consumption compared to the risks of methylmercury in fish/seafood (EFSA) Benefit-risk assessment of fish and fish products in the Norwegian diet – an update (VKM) 	 Nutrition recommendations and food based dietary guidelines Food-Based Dietary Guidelines in Europe (EFSA) Food-Based Dietary Guidelines (FAO) Reports UNSCN Discussion paper "Aquatic foods in sustainable healthy diets", due in 2020 Dietary recommendations and advice regarding aquatic food Summary of FBDG recommendations for fish for the EU, IS, NO; CH and UK (EFSA) Advice about Eating Fish (US FDA) Food and nutrition programs Fiskesprell (Norway) Improving livelihoods and nutrition for women and children (India) Nutrition and dietary recommendations Nordic Nutrition Recommendations Eating and learning together – recommendations for school meal (Finland) Health and joy from food – meal recommendations for early childhood education and care (Finland) National action plan for a healthier diet (Norway) 	2 and 5 2.1, 2.2, 3.b, 3.d 5.5, 5.b, and 5.c	4A.1, 4A.2, 4A.6, and 4G

- in small scale fisheries post-harvest sector_LINK? (See also solution to challenge B, Leaving no one behind)

Model diets for better health

Mediterranean and New Nordic diets LINK?

Guidelines

 <u>Voluntary Guidelines</u> on the Progressive Realization of the Right to Adequate Food in the Context of National Food Security (No. 10 and 11) (FAO)

<u>Voluntary Guidelines</u> for Securing Sustainable Small-Scale Fisheries (FAO)

SMART

- <u>Norway</u> has made a SMART commitment to increase consumption of fish by 20% by 2020

Reports

- <u>Science for ocean actions</u>
- <u>Eat-Lancet</u>
- <u>Common scientific basis for national nutrient</u> <u>recommendations and food-based dietary guidelines</u> integrating environmental aspects

B Visibility of aquatic food in food-based advices

Nutrition recommendations and food based dietary guidelines

- Food-Based Dietary Guidelines in Europe (EFSA)
- Food-Based Dietary Guidelines (FAO)
- <u>Food-Based Dietary Guidelines (Denmark, Finland,</u> Iceland, Norway, and Sweden)

Dietary recommendations and advices regarding aquatic food

- <u>Summary of FBDG recommendations for fish for the EU,</u> <u>IS, NO; CH and UK</u> (EFSA)
- Advice about Eating Fish (US FDA)
- Fish and seafood recommendations in the Nordic Countries

Bringing fish as food into current and coming agendas and fora

The International Year of Artisanal Fisheries and Aquaculture 2022 (UN)

Recommendations

- 2 and 3 4A.1 and 2.2 4A.2 2.2, 3.2,
- and 3.4

<u>CFS policy recommendations</u> 'Sustainable fisheries for food security and aquaculture for food security and nutrition'

с	Fake News		Solutions to avoid 'fake news' concerning fisheries and aquaculture (Brazil) LINK?
		 Knowledge on food technology on low-cost/small infrastructure technology for improving handling, processing, and storage LINK? Processing and storage <u>SmallFishFood</u> Food to suit every palate (NOFIMA, NO) Knowledge on specific vulnerable groups consumption 	 Share recipes and products that are easier to eat Solutions for small-scale infrastructure along the value chain which small producers/processors and vulnerable groups can access and utilize in order to deliver Safe aquatic foods LINK? affordable aquatic foods LINK? acceptable aquatic foods LINK? convenient aquatic foods LINK?
D	Vulnerable groups	 Intra-household consumption (women, children) Fish in diets of indigenous peoples 	 Equitable distribution of aquatic foods LINK? Equal access to markets and technology for improved fish value chains and reduced time burden of women (IYAFA IWD event)

- Equal rights - Gender Transformative Approach and its adoption in the field (IYAFA IWD event)

Guidelines

 <u>Voluntary Guidelines</u> on the Progressive Realization of the Right to Adequate Food in the Context of National Food Security (No. 13) (FAO)

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Key element FOOD PREFERENCES

For many people, aquatic food is not part of the diet due to obstacles like poor quality, high prices, food culture, dietary habits, and being perceived as inconvenient. Actions to overcome these obstacles, and others, are related to this key element. Relevant SDGs related to this element are SDG 4, 12 and 16.

Challenges	Knowledge	Solutions	SDG	CFS
Including aquatic foods in A the sustainable diet narrative	 <u>CFS HLPE #7</u> 'Sustainable fisheries and aquaculture for food security and nutrition' <u>Report</u> <u>CFS HLPE #7</u> 'Sustainable fisheries and aquaculture for food security and nutrition' <u>Recipe for change: An agenda for a climate-smart and sustainable food system for a healthy Europe (EC)</u> <u>Greenhouse gas emissions of Norwegian seafood products in 2017</u> (SINTEF, NO) 	 <u>CFS policy recommendations</u> 'Sustainable fisheries for food security and aquaculture for food security and nutrition' <u>Policy recommendations</u> <u>CFS policy recommendations</u> 'Sustainable fisheries for food security and aquaculture for food security and nutrition' 	14 14.a	4B.2
B Consumer education and literacy	 Reports Illuminating Hidden Harvests Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries Food and Agriculture Organization of the United Nations (fao.org) Consumers and the right to adequate food (two publications, handbook and directory, to be published by early 2021) LINK? 	 Education programs Guide to conducting participatory cooking demonstrations (FAO) Fiskesprell (Norway) A Guide to Serving Local Fish in School Cafeterias (ICES, US) Women's role in promoting and raising awareness of consuming safe and healthy aquatic foods (IYAFA CFS50 side event) Introducing neglected and underutilized species unknown to consumers recipe books LINK? cooking demonstrations LINK? convenience products made from aquatic species LINK? Establishment of Partnerships with Slowfish 	4 and 16	

15

Knowledge

- improved processing such as drying technologies (drying racks, solar tents, solar baskets, etc.) smoking technologies (FTT and other)
- improved storage
- improved handling practices LINK?

Cooling systems

<u>'Cold' handling and storage systems</u> (FAO)

Quality throughout the value chain

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Guidelines

<u>Voluntary Guidelines</u> on the Progressive Realization of the Right to Adequate Food in the Context of National Food Security (Guidelines 10-11, 15) (FAO)

Education programs

 Fish Handling, Quality and Processing: Training and Community Trainers Manual (FAO)

Guidelines

- <u>Guidelines for increasing access of small-scale</u> fisheries to insurance services in Asia (FAO)
- <u>Guidelines for micro-finance and credit services in</u> support of small-scale fisheries in Asia (FAO)

Small scale infrastructure, capacity building/training, awareness raising (in addition to access to finance as is noted)

- post-harvest best practice work that FAO are doing under the Norad project LINK?

Improve quality of fish and fish products

- <u>ProFISH</u>, an NGO including actors in the fish value chain (Finland)

Collaboration with industry and Innovation LINK?

D	Practicality and tradition of aquatic food		 Increase consumer's knowledge of fish and fish products ProFISH aims to increase consumers knowledge of fish and fish products, ways to use fish and their role in nutrition (Finland) Promote food culture Ruokatieto promotes Finish food culture and makes recommendations of fish intake (Finland) Product development Develop products that are easy and quick to prepare LINK? Information on how to prepare new species available due to climate change LINK? Suidelines Voluntary Guidelines on the Progressive Realization of the Right to Adequate Food in the Context of National Food Security (No. 10) (FAO) 	4, 12, and 16	4A.1, 4A.2, 4A6, and 4A.7
E	Vulnerable groups	Convenient tasty products important to increase fish consumption LINK?	Technological developments which maintain food safety and quality LINK? Guidelines Voluntary Guidelines on the Progressive Realization of the Right to Adequate Food in the Context of National Food Security (No. 13) (FAO)		
F	Consumer education and literacy	 Consumer trust labelling Codex Alimentarius The Keyhole labelling – regulations for healthier alternatives with the same conditions in Norway, Sweden, Denmark and Iceland 	 Increase seafood consumption through expanded theoretical and practical knowledge of aquatic foods Fiskesprell (Norway) Transparency Moving towards greater transparency in the seafood sector (FAO) LINK? Guidelines 	4 and 12 4.6, 4.7, and 12.8 and 16.10	4A.1, 4A.2 and 4A.6

			 <u>Voluntary Guidelines</u> on the Progressive Realization of the Right to Adequate Food in the Context of National Food Security (No. 10 and 11) (FAO)
G	Preservation of aquatic food	Preservation techniques - <u>'Cold' handling and storage systems</u> (FAO)	 Innovation for better methods of preservation Streamlining fish processing- Shifting from smoking ovens to the FTT-Thiaroye system (FAO) Application of Appropriate Technology for Artisanal Fish Drying (FAO)

Key element LEAVING NO ONE BEHIND

The key element LEAVING NO ONE BEHIND involves actions to overcome societal issues at large which hinder consumption of aquatic food in populations, like global-, regional, and national policies, investment choices, transition from green to blue, malnutrition and hunger. For example, scientific understanding underpinning solutions providing climate smart and nutritious aquatic food, can give <u>leverage in influencing decision-makers</u>. Relevant SDGs related to this element are SDG <u>5</u>, <u>8</u>, <u>9</u>, <u>10</u> and <u>14</u>.

	Challenges	Knowledge	Solutions	SDG	CSF
		<u>CFS HLPE #7</u> 'Sustainable fisheries and aquaculture for food security and nutrition'	<u>CFS policy recommendations</u> 'Sustainable fisheries for food security and aquaculture for food security and nutrition'		
,	• Equitable distribution	Whole chain LINK?	 Whole chain Fair Trade US/fish LINK? The Abalobi marketplace which connects fishers with consumers and restaurants etc. LINK? Guidelines Voluntary Guidelines on the Progressive Realization of the Right to Adequate Food in the Context of National Food Security (No. 10 and 11) (FAO) Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries (FAO) 	10	4A.1, 4A.2, and 4E
E	Gender equality	 Report Women central to the global fishing industry (Norway) CSF HLPE #18 'Reducing inequalities for food security and nutrition' 	 Gender specific groups and network Global women fisheries network LINK? AKTEA The network of women in fisheries and aquaculture AWFishNet African Women Fish Processors and Traders Network BIM Women in seafood Ireland's Seafood Development Agency (Ireland) LINK? #IrelandsWomenInSeafood (Ireland) Inception workshop for "Food from the Oceans" (Ghana) Attention on gender equality Gender included from the 'get go' in global small-scale fisheries study (WorldFish) LINK? 	5, 10, and 14 5.1 and 5.5. 5.b, 5.c, 10.2, and 10.3	4G

			 Empower women in the trade sector Towards gender-equitable small-scale fisheries governance and development – A handbook (FAO) Empowering women in small-scale fisheries for sustainable food systems (FAO) Guidelines Voluntary Guidelines on the Progressive Realization of the Right to Adequate Food in the Context of National Food Security (FAO) Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries (FAO) Towards gender-equitable small-scale fisheries governance and development -A handbook (FAO) 		
c	Improve social protection	 <u>General Comment (GC12)</u>The right to adequate food (FAO) 	 Initiatives SeaBOS Seafood Business for Ocean Stewardship Information on COVID-19 and small-scale fisheries Social protection for small-scale fisheries in the Mediterranean region Improving livelihoods and nutrition for women and children (India) Guidelines Voluntary Guidelines on the Progressive Realization of the Right to Adequate Food in the Context of National Food Security (FAO) Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries (FAO) 	8 and 10 10.4	4F
D	Recognition of the contribution of small- scale fisheries (SSF)	 Provide knowledge and information on SSF Illuminating Hidden Harvests (fao.org)) Global Strategic Framework in support of the implementation of the Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries (FAO) 	 Implementation of guidelines Tanzania's implementation of SSF guidelines as pilot (FAO) LINK? Implementation of the SSF Guidelines in Eastern Africa (FAO) LINK? Attention on SFF The International Year of Artisanal Fisheries and Aquaculture 2022 (UN) 	14 14.4 and 14.6 9.3, 14.7, and 14.b	4A.7 and 4D

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			 Guidelines Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries (FAO) 	
E	Hidden Harvests	 Hidden harvest: global contribution of capture fisheries (WorldBank) Illuminating Hidden Harves (FAO) 	 Approaches and methods developed under <u>Illuminating</u> <u>hidden harvest project</u> can be replicated/upscaled to better connect fisheries and food security and nutrition data, to inform policy and action. Requires LINK? capacity development LINK? new partnerships between fisheries and food security LINK? nutrition expertise LINK? 	14 14.4 and 14.6 14.6, 14.7, 14.c
F	Holistic monitoring		 Holistic monitoring of resources including all key elements (sufficient', 'safe', 'nutritious', 'dietary needs', 'food preferences'). LINK? Guidelines Voluntary Guidelines on the Progressive Realization of the Right to Adequate Food in the Context of National Food Security (No. 10-11) (FAO) Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries (FAO) 	
G	Capacity building	 Provide knowledge to increase coordination between research programs of finite duration <u>EAF Nansen program</u> Ecosystem Approach to Fisheries (FAO) Resources <u>Building capacity for mainstreaming fisheries</u> co-management in Indonesia (FAO) 	 Approaches and methods developed under Illuminating hidden harvest project Collaboration African Women Fish Processors and Traders Network Guidelines Voluntary Guidelines on the Progressive Realization of the Right to Adequate Food in the Context of National Food Security (No. 11) (FAO) Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries (FAO) 	14.b

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Reports

- CSF <u>HLPE #15</u> Food security and nutrition -Building a global narrative towards 2030

Covid-19

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Resources

- Information on COVID-19 and small-scale fisheries (FAO)

TOWARDS COMMON GOALS

Food security is threatened in many parts of the world, and food from the oceans and inland waters is a crucial component in ensuring food security for the future. This relies on a broad multi-sectoral approach including science, policy, industry and businesses through an overarching common goal across disciplines to achieve sufficient nutritious food for everyone, linked to existing initiatives. Actions for this element may for example range from efforts to bridge the knowledge gap, form regional networks, or other initiatives carried out by different stakeholders to realize the potential of aquatic foods in food security and nutrition. Relevant SDGs related to this element are SDG <u>2</u>, <u>8</u>, <u>10</u>, <u>12</u>, <u>14</u>, <u>15</u>, <u>16</u> and <u>17</u>.

Challenges	Knowledge	Solutions	SDG	CFS
	<u>CFS HLPE #7</u> 'Sustainable fisheries and aquaculture for food security and nutrition'	<u>CFS policy recommendations</u> 'Sustainable fisheries for food security and aquaculture for food security and nutrition'		
A Cross-sectoral cooperation	 Reports Circular economy in fisheries and aquaculture areas UNFSS 2021 CSF HLPE #15 'Food security and nutrition building a global narrative towards 2030 Rethinking Our Food Systems: A Guide for Multi-Stakeholder Collaboration (UNDP) 	 Make aquatic food part of food and nutrition discussions BIM (Ireland's Seafood Development Agency) invites organizations in Ireland working with seafood to meet and discuss national initiatives (Ireland) Bluing the green - greening the blue 'A common "Land and Sea" language for a Circular Food System' (The Netherlands) Partnerships/MoUs Partnership for a healthier diet (Norway) FAO-WorldFish MoU on small-scale fisheries, food security and nutrition, aquaculture and value chains LINK? FAO-Duke University MoU on small-scale fisheries FAO-Michigan State University MoU on inland fisheries LINK? Sustainable Food from the Oceans and Inland Waters for Food Security and Nutrition (UN Nutrition Decade Action Network) 'Too Big To Ignore' (Countries?) 	2, 12, 14 and 15 2.4, 2.a, 14.4 12.4, 14.1, and 14.3	4A.1, 4A.6 and 4B.4 4A.1, 4A.6 and 4B.4

- Accelerating circular and sustainable bioeconomy (NO)
- Global Salmon Initiative
- <u>Seafood Nutrition Partnership</u> (USA)
- <u>Aquatic Blue Food</u>
 <u>Coalitionhttps://www.aquaticbluefood.org/ (UN)</u>
- The School Meals Coalition (UN)
- Blue Food Futures (UN Ocean Decade Program)
- ClimeFOOD (UN Ocean Decade Project)
- Fish for Africa Innovation Hub (UN Ocean Decade Project)

Declarations

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- <u>The International Year of Artisanal Fisheries and</u> Aquaculture 2022 (FAO)

Policy briefs

 '<u>Linkages between the Voluntary Guidelines for</u> <u>Securing Sustainable Small-Scale Fisheries in the</u> <u>Context of Food Security and Poverty Eradication</u> <u>and the Framework for Action for Food Security and</u> <u>Nutrition in Protracted Crises</u>' (FAO)

Guidelines

- <u>Voluntary Guidelines</u> on the Progressive Realization of the Right to Adequate Food in the Context of National Food Security (FAO)
- <u>Voluntary Guidelines</u> for Securing Sustainable
 Small-Scale Fisheries (in particular Chapter 10 on Policy coherence, collaboration and coordination) (FAO)
- <u>Voluntary Guidelines</u> Illuminating Hidden Harvests for Securing Sustainable Small-Scale Fisheries (FAO)

Trust and transparency of the aquaculture and fisheries industry	 Secure transparency SeaBOS (Seafood Business for Ocean Stewardship) Sustainability Report from Global Salmon Initiative 	8, 10, 12, 16, and 17 8.7, 10.4, 12.6, 16.5, 16.6, and17.6	4F
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Other relevant inputs:

(Please type in your suggestion right here)

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