

G.A.P. STANDS FOR
GOOD AGRICULTURAL PRACTICES
AND GLOBALG.A.P. SETS THE
STANDARDS THAT ASSURE THEM.



GLOBALG.A.P.
The Global Partnership for Safe and Sustainable Agriculture



We're a global organization with a crucial objective:

SAFE, SUSTAINABLE AGRICULTURE WORLDWIDE

We set voluntary standards for the certification of agricultural production processes around the globe – and more and more producers, suppliers, and buyers are harmonizing their certification standards to match.

Putting food safety,
sustainability, and the
environment in the
hands of producers.





GLOBALG.A.P.

THE GLOBALG.A.P. AQUACULTURE STANDARD



COMPOUND



HATCHERY



GROW-OUT



HARVEST



POST-HARVEST

GLOBALG.A.P. Compound Feed
Manufacturing Standard

GLOBALG.A.P.
Aquaculture Standard

SUPPORTING THE AQUACULTURE SECTOR SINCE 2004



37 SPECIES FROM CERTIFIED PRODUCTION

32 FINFISH SPECIES AVAILABLE FROM CERTIFIED PRODUCTION⁽¹⁾

Adriatic Sturgeon	[<i>Acipenser naccarii</i>]	Meagre	[<i>Argyrosomus regius</i>]
Arctic Char	[<i>Salvelinus alpinus</i>]	Pangasius Tra	[<i>Pangasianodon hypophthalmus</i>]
Asian Bronze Featherback	[<i>Notopterus notopterus</i>]	Pink Dentex	[<i>Dentex gibbosus</i>]
Atlantic Cod	[<i>Gadus morhua</i>]	Rainbow Trout	[<i>Oncorhynchus mykiss</i>]
Atlantic Halibut	[<i>Hippoglossus hippoglossus</i>]	Red Drum	[<i>Sciaenops ocellatus</i>]
Atlantic Salmon	[<i>Salmo salar</i>]	Red Porgy	[<i>Pagrus pagrus</i>]
Barramundi	[<i>Lates calcarifer</i>]	Red Seabream	[<i>Pagrus major</i>]
Bluespotted Seabream	[<i>Pagrus caeruleostictus</i>]	Russian Sturgeon	[<i>Acipenser gueldenstaedtii</i>]
Brook Trout	[<i>Salvelinus fontinalis</i>]	Senegalese Sole	[<i>Solea senegalensis</i>]
Brown Trout	[<i>Salmo trutta</i>]	Sharpnout Seabream	[<i>Diplodus puntazzo</i>]
Cobia	[<i>Rachycentron canadum</i>]	Shi Drum	[<i>Umbrina cirrosa</i>]
Coho Salmon	[<i>Oncorhynchus kisutch</i>]	Starry Sturgeon	[<i>Acipenser stellatus</i>]
Common Dentex	[<i>Dentex dentex</i>]	Sterlet Sturgeon	[<i>Acipenser ruthenus</i>]
European Seabass	[<i>Dicentrarchus labrax</i>]	Turbot	[<i>Scophthalmus maximus</i>]
Gillthead Seabream	[<i>Sparus aurata</i>]	White Grouper	[<i>Epinephelus aeneus</i>]
Greater Amberjack	[<i>Seriola dumerili</i>]	Yellowtail Kingfish	[<i>Seriola lalandi</i>]

5 CRUSTACEANS & MOLLUSCS SPECIES AVAILABLE FROM CERTIFIED PRODUCTION⁽¹⁾

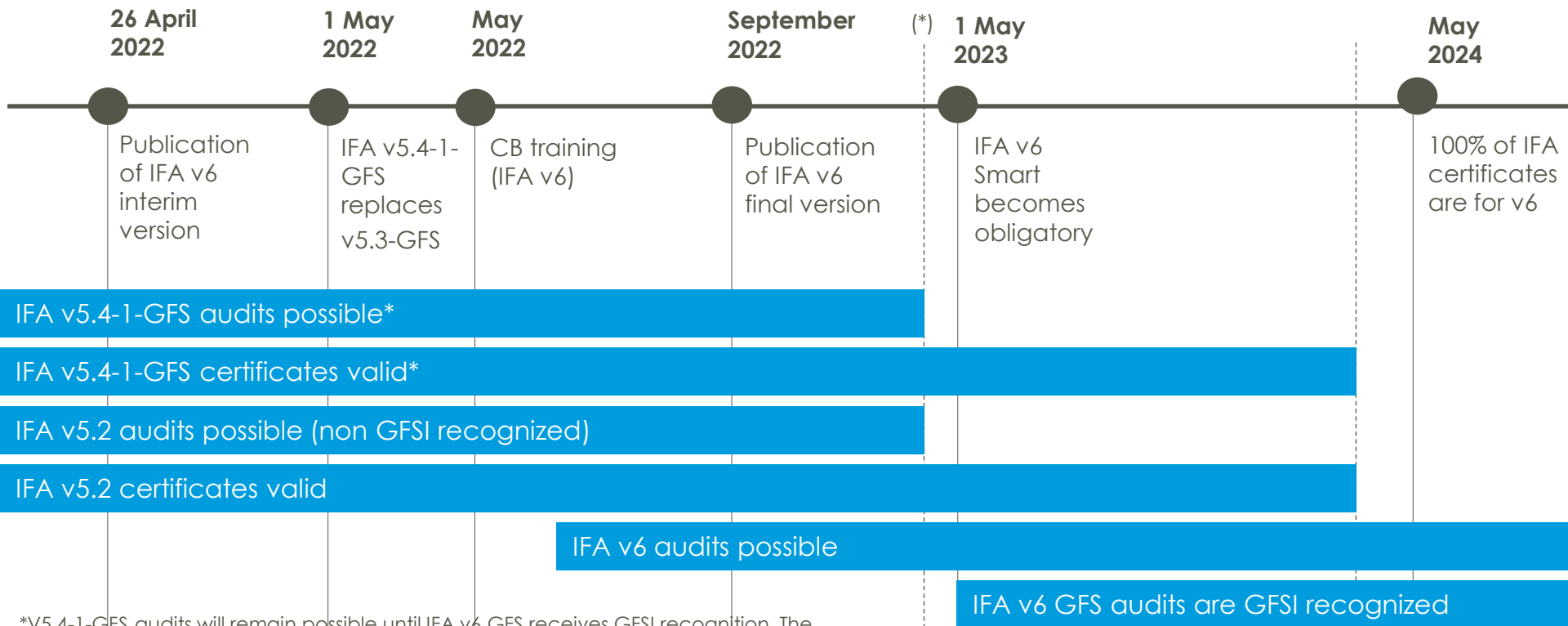
Blue Mussel	[<i>Mytilus edulis</i>]	Giant Tiger Prawn	[<i>Penaeus monodon</i>]
Pacific Cupped Oyster	[<i>Crassostrea gigas</i>]	Whiteleg Shrimp	[<i>Litopenaeus vannamei</i>]
Mediterranean Mussel	[<i>Mytilus galloprovincialis</i>]		

New species added in the last two years:

- Arctic char
- Atlantic cod
- Flathead grey mullet
- Hybrid striped bass
- South African abalone



WHAT IS THE TRANSITION PERIOD FROM IFA V5 TO V6? (aquaculture)



*V5.4-1-GFS audits will remain possible until IFA v6 GFS receives GFSI recognition. The exact date for this is still unknown.

WHAT'S NEW IN VERSION 6?



GLOBALG.A.P.
The Global Partnership for Safe and Sustainable Agriculture



IFA V6

Aquaculture World Consultation Tour



14 webinars covering all continents



21 hours



150 stakeholders



4 languages



485 comments



WHAT'S NEW IN IFA V6 FOR AQUACULTURE?

- Overall upgrade of the **holistic approach**
 - Increased **environmental sustainability**
 - Increased **animal health and welfare**
 - Increased **workers' well-being**



- **Streamlined, outcome-oriented,** and **customized** checklists



THANK YOU!

AQUACULTURE TECHNICAL COMMITTEE

Chairperson: Andy Gourlay/Scottish Sea Farms

Vice-chairperson: Teresa Fernandez/Hilton Seafood UK

Board liaison: Martin Hofstede/Clama GmbH & Co. KG

GLOBAL.G.A.P. Secretariat: Valeska Weymann

Name	Company	Country
Francisco Ascaso	Eroski	Spain
Lukasz Dragunowicz	Milarex	Poland
Teresa Fernandez	Hilton Seafood UK	United Kingdom
Andy Gourlay	Scottish Sea Farms	United Kingdom
Randi Norstoga Haldorsen	MOWI	Norway
Taru Spring	Kesko Corporation	Finland
Marlene Timm	ALDI SOUTH Group	Austria
Ben Weis	Tesco	United Kingdom

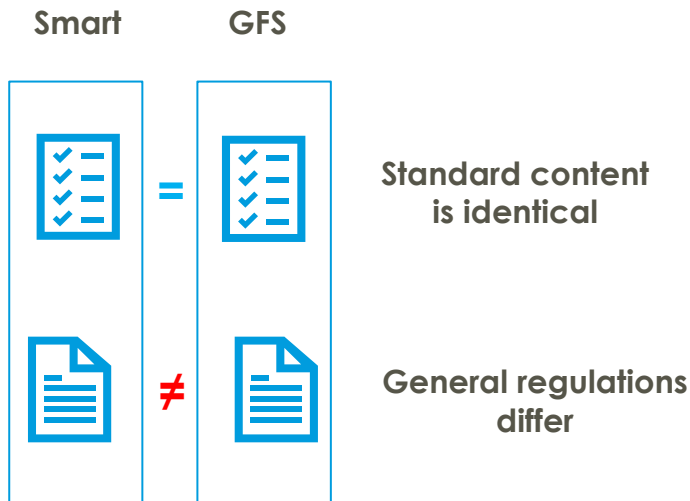
Observers: Zoetis/Terje Tingbo, Norway
Bureau Veritas/Oscar Vidal, Spain



IFA V6 FOR AQUACULTURE

Two parallel editions

IFA v6 is available in two editions: **IFA v6 Smart** and **IFA v6 GFS**



IFA v6 Smart is our flagship standard designed for all producers regardless of size and location and for circumstances where GFSI rules are not appropriate.

IFA v6 GFS is for producers who require GFSI recognition.



COMPOUND FEED MANUFACTURING STANDARD

Version 3 released 15 December 2021

GlobalGAP tightens feed standard rules



Feed manufacturers certified under the GlobalGAP standard will have to meet stricter criteria for fishmeal, fish oil and soy if they want to keep the certification.

Source: Fishfarmingexpert



THANK YOU!

COMPOUND FEED MANUFACTURING FOCUS GROUP

Neil Auchterlonie	Consultant (Representing IFFO)	United Kingdom
Jil Bohmfalk	Köster Marine Proteins GmbH	Germany
Ian Carr	Veramaris	UK
Fabio Cervellione	DSM	Switzerland
Karina De Leon	Cargill	Guatemala
Erik Olav Gracey	Biomar AS	Norway
Ellinor Helland	Biomar AS	Norway
Trygve Berg Lea	Skretting/Nutreco	Norway
Paul Morris	MOWI	Norway
Sanna i Tuni Nielsen	Havsbrun	Faroe Islands
Sergiy Pokhyla	Goodvalley	Ukraine
Marco Scolari	Nutreco	Italy

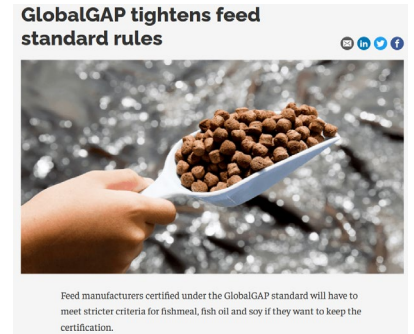


COMPOUND FEED MANUFACTURING STANDARD

Version 3 released 15 December 2021

Main changes

- Sustainability of feed production
- Workers' health, safety, and welfare
- Responsible sourcing of raw materials:
 - Sourcing of fish meal and fish oil*
 - 60% GSSI, Marine Trust, Fishery Improvement Project (FIP)
 - 2025 → 75%
 - FEFAC soy sourcing guidelines*
 - 75% aquaculture
 - 100% salmonids
 - Palm oil products*
 - 100% RSPO certified



Source: Fishfarmingexpert



GLOBALG.A.P. CERTIFICATION FOR AQUACULTURE

Seaweed (macroalgae) added to product scope



Available for:

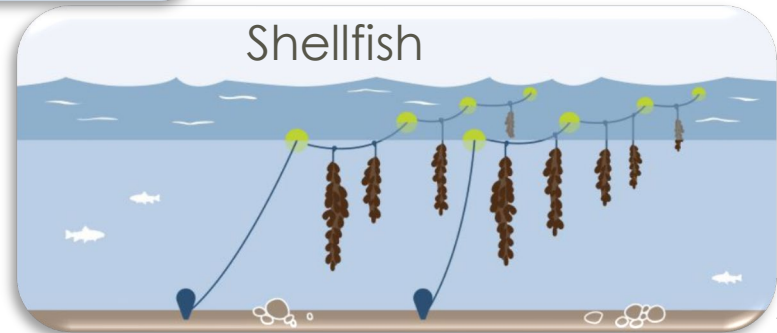
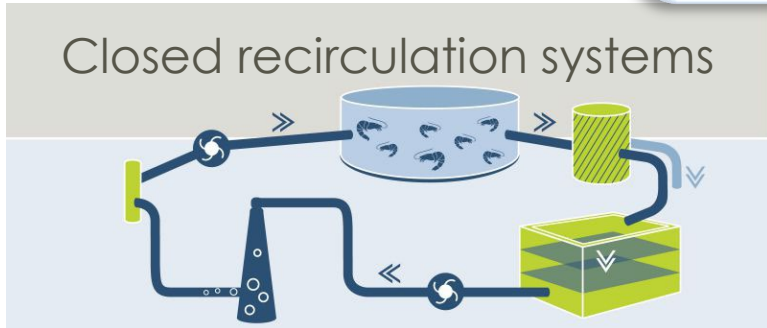
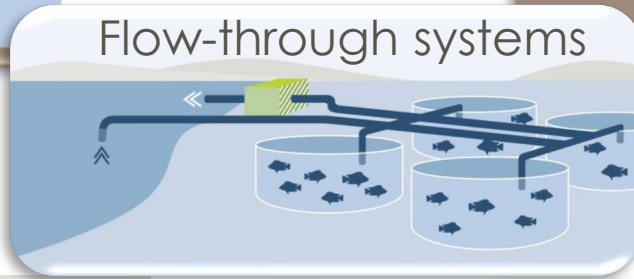
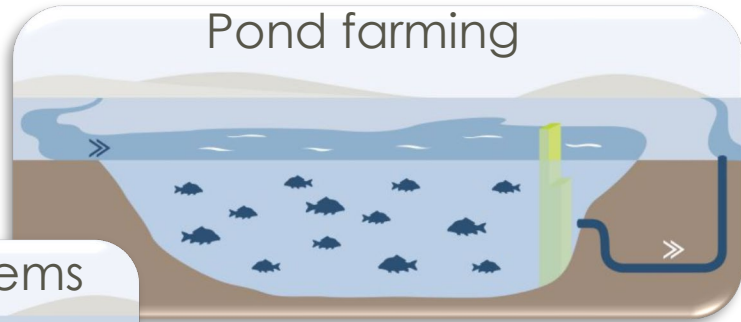
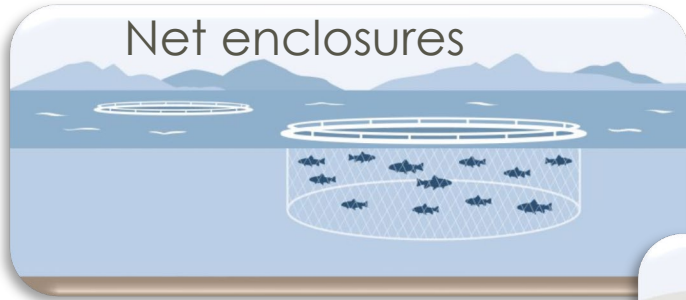
- Finfish
- Crustaceans
- Molluscs
- **NEW: seaweed (macroalgae)**





GLOBAL G.A.P. CERTIFICATION FOR AQUACULTURE

Available for all types of production systems





Sections:

Integrated Farm Assurance version 6 for aquaculture



AQUACULTURE – Finfish, Crustaceans, Molluscs, Seaweed v6 Contents

Sections

AQ **AQUACULTURE – Finfish, Crustaceans, Molluscs, Seaweed**

- AQ 1** SITE HISTORY AND SITE MANAGEMENT
- AQ 2** INTERNAL DOCUMENTATION
- AQ 3** HYGIENE
- AQ 4** WORKERS' OCCUPATIONAL HEALTH, SAFETY AND WELL-BEING
- AQ 5** OUTSOURCED ACTIVITIES (SUBCONTRACTORS)
- AQ 6** ENVIRONMENTAL AND BIODIVERSITY MANAGEMENT
- AQ 7** CONSERVATION
- AQ 8** COMPLAINTS
- AQ 9** RECALL AND WITHDRAWAL PROCEDURE
- AQ 10** FOOD DEFENSE
- AQ 11** GLOBALG.A.P. STATUS
- AQ 12** LOGO USE
- AQ 13** PARALLEL OWNERSHIP
- AQ 14** FARM MASS BALANCE
- AQ 15** FOOD SAFETY POLICY DECLARATION
- AQ 16** FOOD FRAUD MITIGATION



SECTIONS

Integrated Farm Assurance version 6 for aquaculture

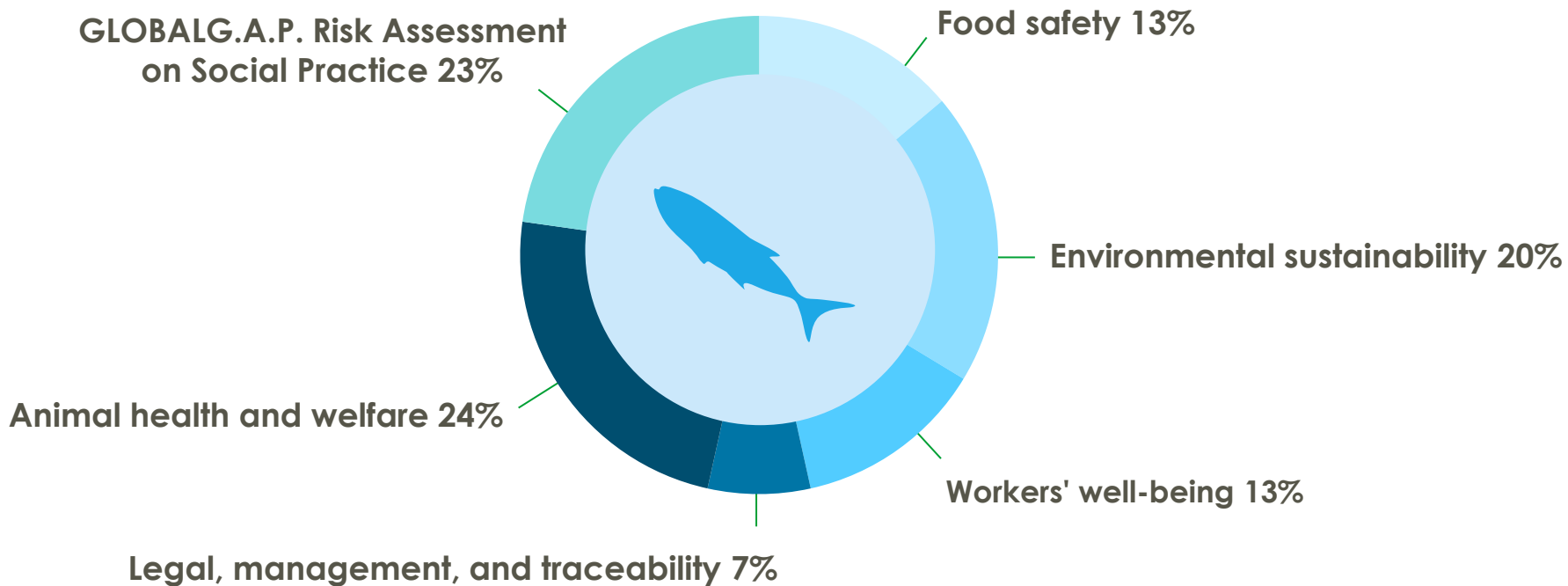
F

AQ 17	SPECIFICATIONS, NON-CONFORMING PRODUCTS, AND PRODUCT RELEASE AT THE FARM
AQ 18	REPRODUCTION <i>This section provides the additional criteria applicable specifically to hatcheries, when covered under the certificate.</i>
AQ 19	CHEMICAL COMPOUNDS
AQ 20	FARMED AQUATIC SPECIES WELFARE, MANAGEMENT, AND HUSBANDRY (<u>at</u> all points of the production chain)
AQ 21	SAMPLING AND TESTING OF FARMED AQUATIC SPECIES
AQ 22	FEED MANAGEMENT
AQ 23	PEST CONTROL
AQ 24	HARVESTING AND POST-HARVESTING OPERATIONS
AQ 25	HOLDING AND CROWDING FACILITIES
AQ 26	SLAUGHTER ACTIVITIES
AQ 27	DEPURATION
AQ 28	POST HARVEST - MASS BALANCE AND TRACEABILITY
GUIDELINE AQ I	Examples of Environmental Impact Assessment (EIA), Environmental Risk Assessment (ERA), and Respective Environmental Management Plans (EMPs)
GUIDELINE AQ II	Biodiversity in Environmental Impact Assessment
GUIDELINE AQ III	Environmental Parameters of Relevance Based on the Aquaculture System Used and AQ III Glossary
GUIDELINE AQ IV	The Ramsar Convention on Wetlands



IFA V6 FOR AQUACULTURE STANDARD CONTENT

Principles and criteria (*)



*Excluding postharvest section AQ 28



THE GLOBALG.A.P. SOLUTION

IFA aquaculture industry recognition



- Only aquaculture certification standard at farm level recognized by **GFSI (Global Food Safety Initiative)**



- Only aquaculture certification standard recognized by **GSSI (Global Sustainability Seafood Initiative)** for all species of finfish, crustaceans, molluscs, and seaweed

Referenced at all times:

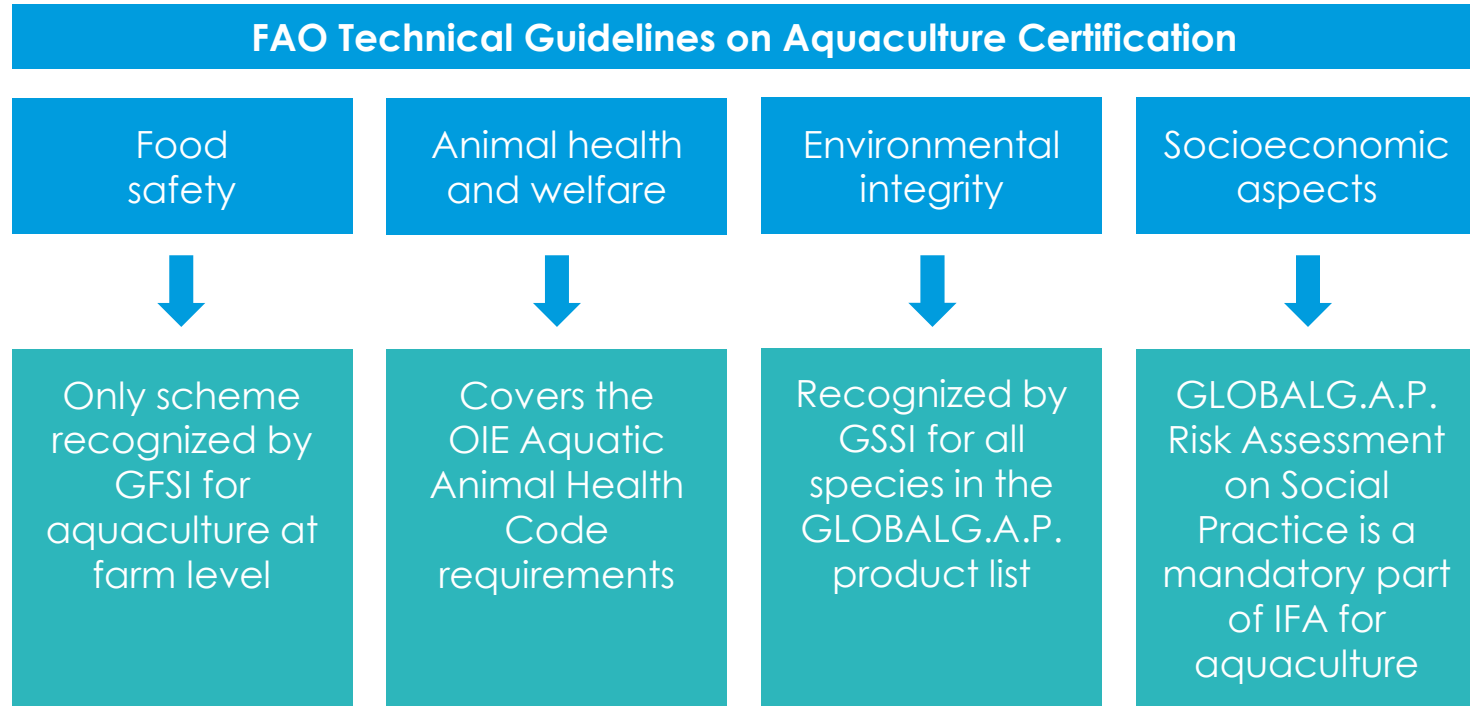


- Technical Guidelines on Aquaculture Certification – **FAO (Food and Agriculture Organization of the United Nations)**
- Aquatic Animal Health Code – **OIE (World Organisation for Animal Health)**
- Standard implementation contributes to the **United Nations Sustainable Development Goals**



THE GLOBALG.A.P. SOLUTION

Considers the four pillars of the FAO Technical Guidelines



Interaction with the environment

- Evaluation of the activities in the surrounding area and how they affect the farm **upgraded**



COMPOUND
FEED

Higher level of responsible sourcing of raw materials with special requirements for fish meal/fish oil and soya

In IFA for aquaculture v6: Updated requirements on the reporting of the feed conversion ratio (FCR) to evaluate the best use of resources as well as the **percentage and origin** of fish meal/oil used in the compound feed



HATCHERY



GROW-OUT



HARVEST



POST-HARVEST

- **Chemical use:** Aquaculture health plan (AHP) with detailed operation instructions; Chemical use management; Negative list of prohibited substances.
- **Diseases:** The prevention of the spread of pathogens is covered in eight principles and criteria.
- **Escapes:** Escape management aims at zero escapes. Attention to climate change related escapes, including cages structures.

- Evidence required of no significant negative impact on the **biodiversity of the benthic fauna** and/or recipient water body sediment/water column
- Prevention of interaction with predators
- Collaboration with farms sharing the same water body, including disease control, movement of animals, predators, and the evaluation of macro fauna



HATCHERY



GROW-OUT



HARVEST



POSTHARVEST





STANDARD CONTENT

Principles and criteria

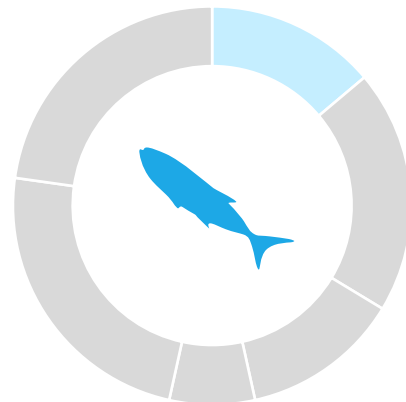
Topic	Goal
Food safety	Protects consumers through strict requirements on feed and animal health management
Animal welfare	Improves the quality of products and boosts consumer acceptance
Social welfare	Protects workers' well-being, ensures proper training, and boosts consumer acceptance
Environmental/Biodiversity management	Provides tools for sustainable operations and boosts consumer acceptance
Feed management	Ensures efficient resource use and feed and food safety
Harvest/Postharvest operations	Prioritizes animal health and welfare and food safety for consumers
Hygiene	Supports food safety and prevents on-farm biosecurity issues
Pest control	Supports food safety and protects animal health and welfare
Sampling and testing	Supports food safety and protects animal health and welfare
Traceability	Protects product integrity and identifies the root cause of any incident



NEW IN IFA V6

Food safety

- **IFA v6 standard for aquaculture** continues to implement GFSI requirements (v2020).
- Increased **biosecurity** requirements
- Entire section on **hygiene** upgraded to Major Must, covering aspects such as design of facility to enable proper cleaning and controlled entry/exit points equipped for disinfection.
- All **outsourced processes, products, and materials** impacting food safety shall be identified, documented, controlled, and shall conform to specified requirements as well as food safety and regulatory requirements.

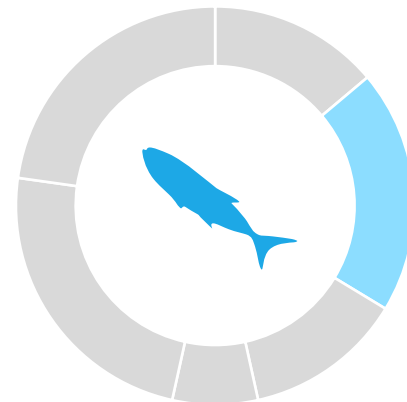




NEW IN IFA V6

Environmental sustainability and biodiversity

- **Environmental impact assessment (EIA)** now features effluent phosphorus, feed, and fertilizers
- Evidence required of no significant negative impact on the **biodiversity of the benthic fauna** and/or recipient water body sediment
- **Escape management** aiming at zero escapes, with new requirements on climate change-related accidents, such as cage structures
- Higher level of **responsible raw material sourcing for compound feed**, with targeted criteria for fish meal/fish oil, soy, and palm oil
- **Collaboration between farms sharing the same water body**, including disease control and animal movement

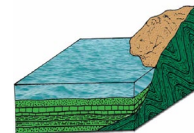




Sampling program to monitor the impact of the farming activity on the benthic fauna and recipient water body sediment for all systems



Benthic biodiversity, chemical indicators, and possible accumulation of chemical residues in the recipient water body **sediment**
FOR ALL FARMING SYSTEMS





NEW IN IFA V6

Workers' well-being

- **GLOBALG.A.P. Risk Assessment on Social Practice (GRASP)** continues to be a compulsory part of the IFA requirements for aquaculture with GRASP v2
- Entire section on **workers' health, safety, and welfare** upgraded
- **Diving operation** requirements expanded
- **Worker handling training** for increased compliance with hygiene and animal health criteria
- **Aquatic species welfare training** extended to include workers at all stages of production

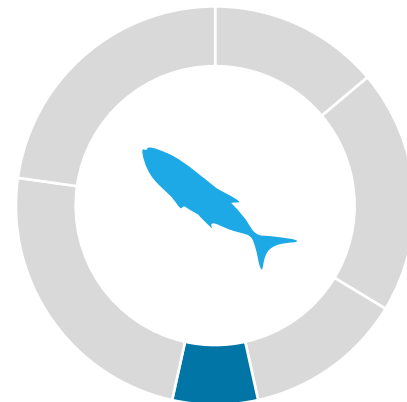




NEW IN IFA V6

Production processes and traceability

- **Introduction of three values (metrics)** necessary as part of the audit report, in addition to the audit criteria:
 - **Percentage of mortalities** linked to causes of death
 - **Average fish meal and fish oil percentage** (including origin, where possible), and fish in:fish out information
 - **Economic feed conversion ratio (eFCR)** – the quantity of feed used to produce the quantity of fish harvested (net production refers to the live weight)





NEW IN IFA V6

Animal health and welfare

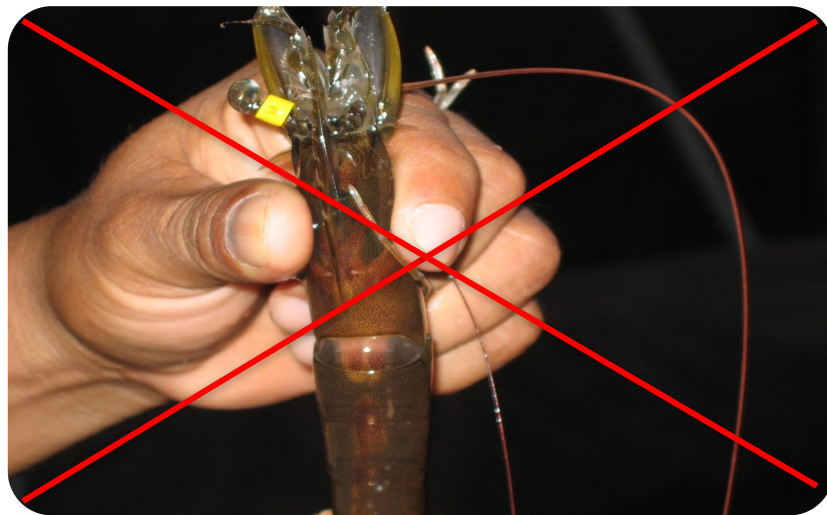
- **Predator exclusion plan** extended, including addition of requirements on nonlethal control practices
- **Aquaculture health plan (AHP)** provides transparency on antimicrobials, the management of chemical use, and a negative list of prohibited substances
- **Banning of seedlings sourced from shrimp females with eyestalk ablation** from April 2024
- **Environmental enrichment concept** adopted
- **Stricter humane slaughter practices** to reference the OIE Aquatic Animal Health Code
- **Prevention of pathogen spreading** expanded
- Animal welfare parameters **established for transport**





BROODSTOCK AND SEEDLINGS

As of April 2024, only larvae originating from shrimp females without eyestalk ablation will be accepted.





NEW IN IFA V6

Continuous improvement

Stages of a continuous improvement plan



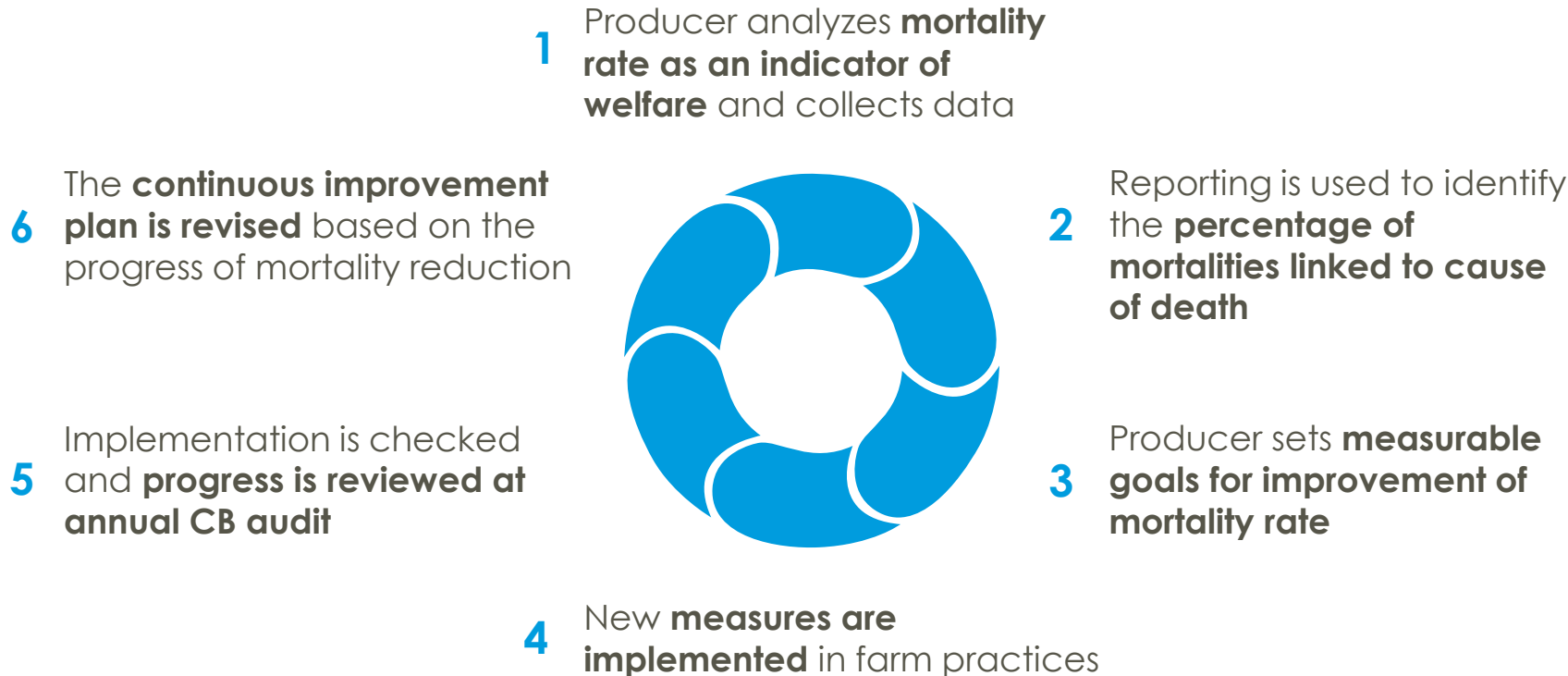
1. Producer analyzes current practices using real data
2. Reporting is used to identify areas that can be improved
3. Producer sets measurable goals for improvement
4. New measures are implemented in farm practices
5. Implementation is checked and progress reviewed at annual CB audit
6. The continuous improvement plan is revised based on progress

- Producers are required to implement a plan to **analyze current practices** at farm level.
- Producers then **identify “hot spots”** and **set clear, measurable goals** for improvement in a defined area.
- Year-on-year, producers demonstrate their efforts towards improving aspects such as sustainability, food safety, and workers' well-being.



NEW IN IFA V6

Example of a continuous improvement plan





SUMMARY OF CHANGES

IFA v6 for aquaculture – Finfish, crustaceans, molluscs, and seaweed

According to the latest GFSI recommendations, the 12-month period for farms to comply with requirements for certified production processes for compound feed no longer applies.

Compliance with AQ 22.01.02 is now required from the initial audit onwards. This requirement is not new, but has been amended.

Topic	Reference
<ul style="list-style-type: none"> Documented risk assessment for hazards to workers' health and safety 	AQ 04.01.01
<ul style="list-style-type: none"> Health and safety procedures 	AQ 04.01.02
<ul style="list-style-type: none"> Diving operations 	AQ 04.01.03
<ul style="list-style-type: none"> Health and safety training according to the risk assessment 	AQ 04.02.01
<ul style="list-style-type: none"> Documented waste management system 	AQ 04.05.02
<ul style="list-style-type: none"> A biodiversity-inclusive environmental impact assessment (EIA) and environmental risk assessment (ERA) NEW: <i>Guideline AQ III – Environmental parameters of relevance based on the aquaculture system used</i> 	AQ 06.02.01
<ul style="list-style-type: none"> Monitoring of the impact on the biodiversity of the benthic fauna and/or recipient water body sediment/water column 	AQ 06.03.01
<ul style="list-style-type: none"> Predator control techniques 	AQ 06.03.03
<ul style="list-style-type: none"> Aquaculture health plan (AHP) 	AQ 07.02.03
<ul style="list-style-type: none"> The hatchery/farm has a system to monitor and register health and welfare indicators 	AQ 20.02.01
<ul style="list-style-type: none"> Biosecurity plan 	AQ 20.02.08
<ul style="list-style-type: none"> If there is an area management plan, the farm is actively participating. 	AQ 20.08.01
<ul style="list-style-type: none"> Protein elements in the compound feed are <i>not</i> obtained from the same fish/crustacean species, unless hydrolyzed 	AQ 20.08.02



Principle and criteria that require the audit report to include values IFA v6 for aquaculture – Finfish, crustaceans, molluscs, and seaweed

- The self-assessment/internal audit and certification body (CB) audit reports shall have a value of the **overall percentage of mortalities** per production stage and values linked to the causes of death. AQ
20.05.02

AQ
22.02.03

average fish meal and fish oil percentage

fish-in/fish-out ratio

- The self-assessment/internal audit and certification body (CB) audit reports shall have at least one FCR value recorded: eFCR per production life cycle. AQ
22.02.05
Economic feed conversion ratio (eFCR) = Feed (in kg or mt) / Net aquaculture production (in kg or mt; live weight)



EFFICIENCY

IFA v6 for aquaculture – Finfish, crustaceans, molluscs, and seaweed

Level	Number IFA V5.2 and V5.3- GFS	Number V6	Percentage IFA V5.2 and V5.3-GFS	Percentage V6
Major Must	182	199	77%	88%
Minor Must	46	22	19%	10%
Recommendation	9	5	4%	2%
TOTAL	237	226		

Versions 5.2 and 5.3-GFS contain a total of 237 principles and criteria (without the postharvest section), which means that **version 6 has 11 fewer principles and criteria, around 5% greater efficiency compared to the total number.**

Without section 28 *POSTHARVEST – MASS BALANCE AND TRACEABILITY*



SMART FARM ASSURANCE SOLUTIONS

The benefit for all stakeholders



Smart, easy-to-use farm assurance solutions at your fingertips



SMART FARM ASSURANCE SOLUTIONS

The journey towards our vision

Progressive deployments will bring our vision for IFA v6 to life.



Smarter standards and add-ons



Smarter approach to sustainability



Smarter systems and services

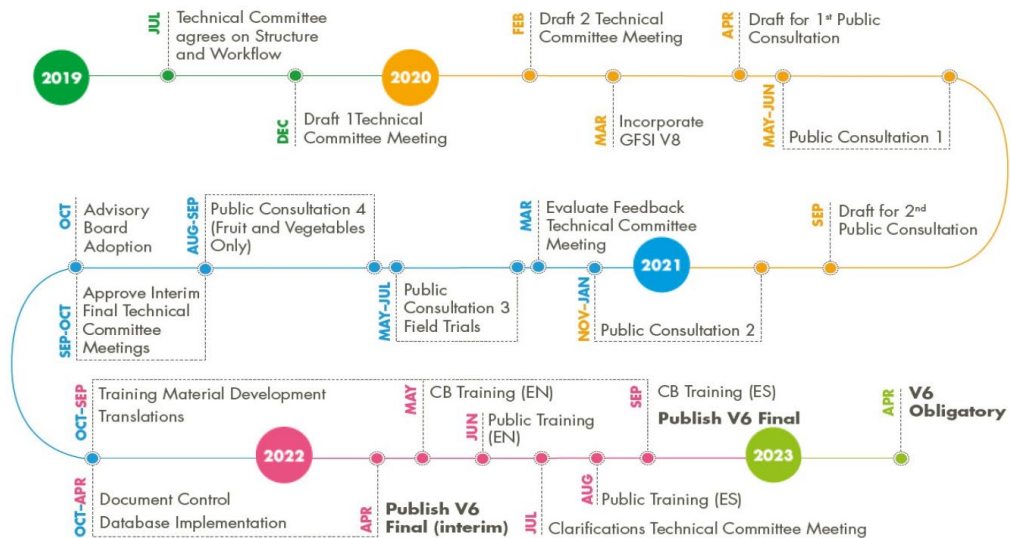


Smarter integration of data





IFA V6 Timeline



Virtual launch event
26 April 2022:
globalgap.org/ifav6





REGISTERED TRAINERS

A helping hand for the certification process

Registered Trainers are:

- Farming experts
- Trained by GLOBALG.A.P.
- Authorized to provide trainings on GLOBALG.A.P. standards
- Able to support you on your journey to achieving GLOBALG.A.P. certification



Find Registered Trainers using our “[Find a Registered Trainer](#)” tool. You can recognize them by their green seal.



GLOBALG.A.P.
The Global Partnership for Safe and Sustainable Agriculture

The GGN label

Cross-category,
consumer-facing
label

Stands for certified,
responsible farming
and transparency.





THE GGN LABEL

Making certified, responsible farming visible





THE GGN LABEL

GGN label as a cross-category label



The GGN label stands for certified, responsible farming and transparency

We provide a solution for

- Flowers and ornamentals
- Aquaculture
- **NEW: Fruit and vegetables**



NEW: One label for all three scopes





ONE LABEL FOR ALL SCOPES



Fruit and
vegetables



Aquaculture

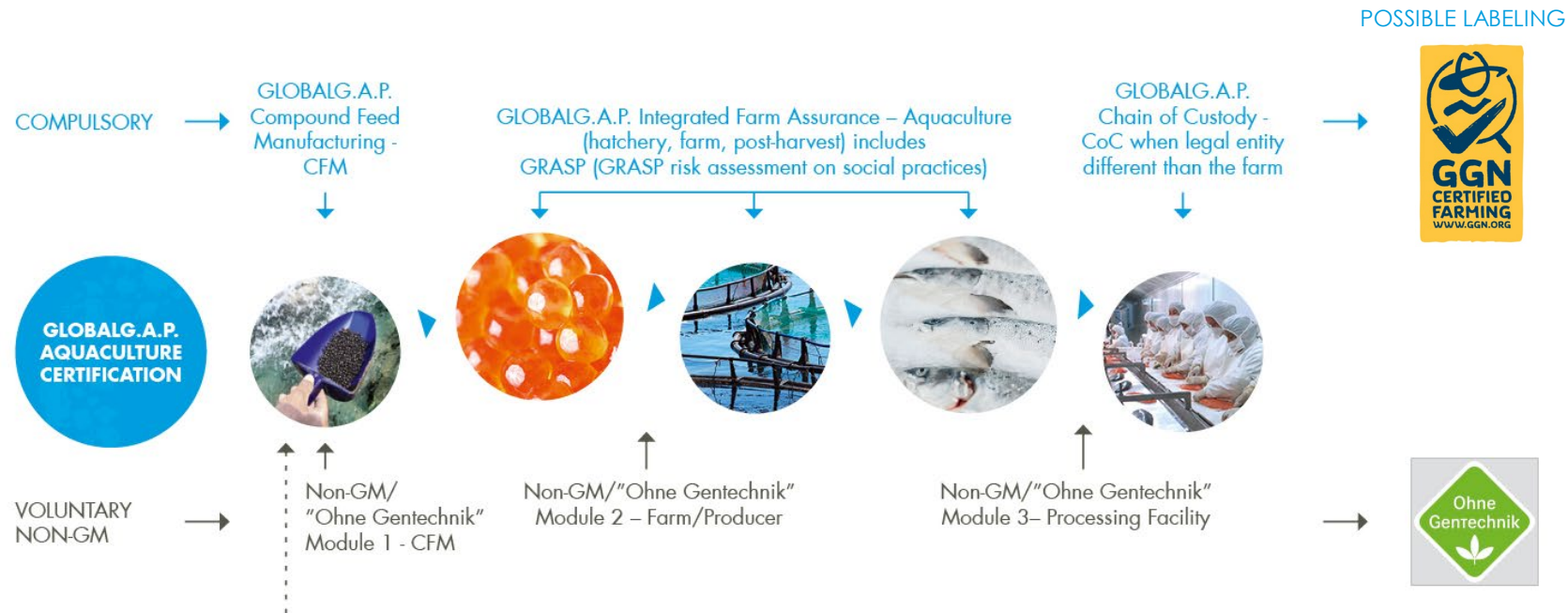


Flowers and
ornamentals



B2C COMMUNICATION

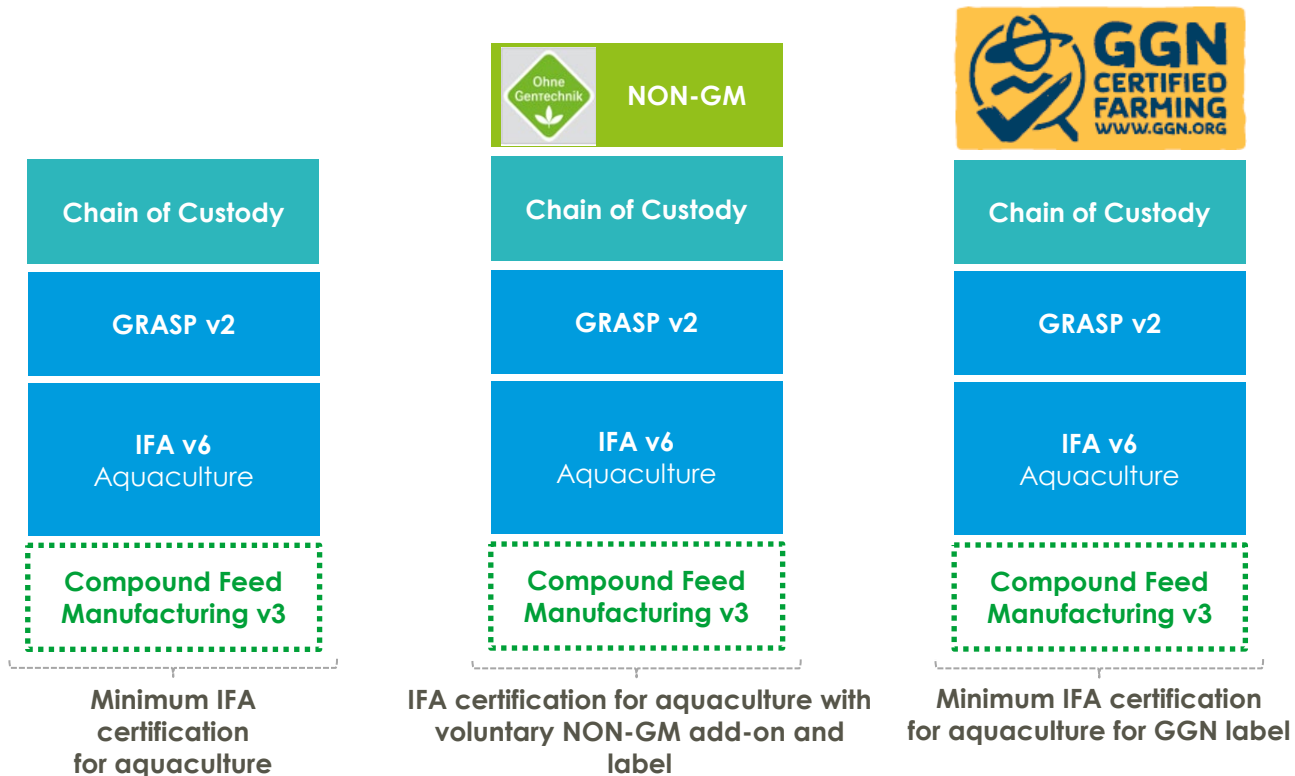
Available for both GFS and Smart editions





THE GLOBAL.G.A.P. PORTFOLIO

Aquaculture solutions





THE GGN LABEL

Making certified, responsible farming visible



Products with the GGN label are available at:





THE GGN LABEL

Making certified, responsible farming visible

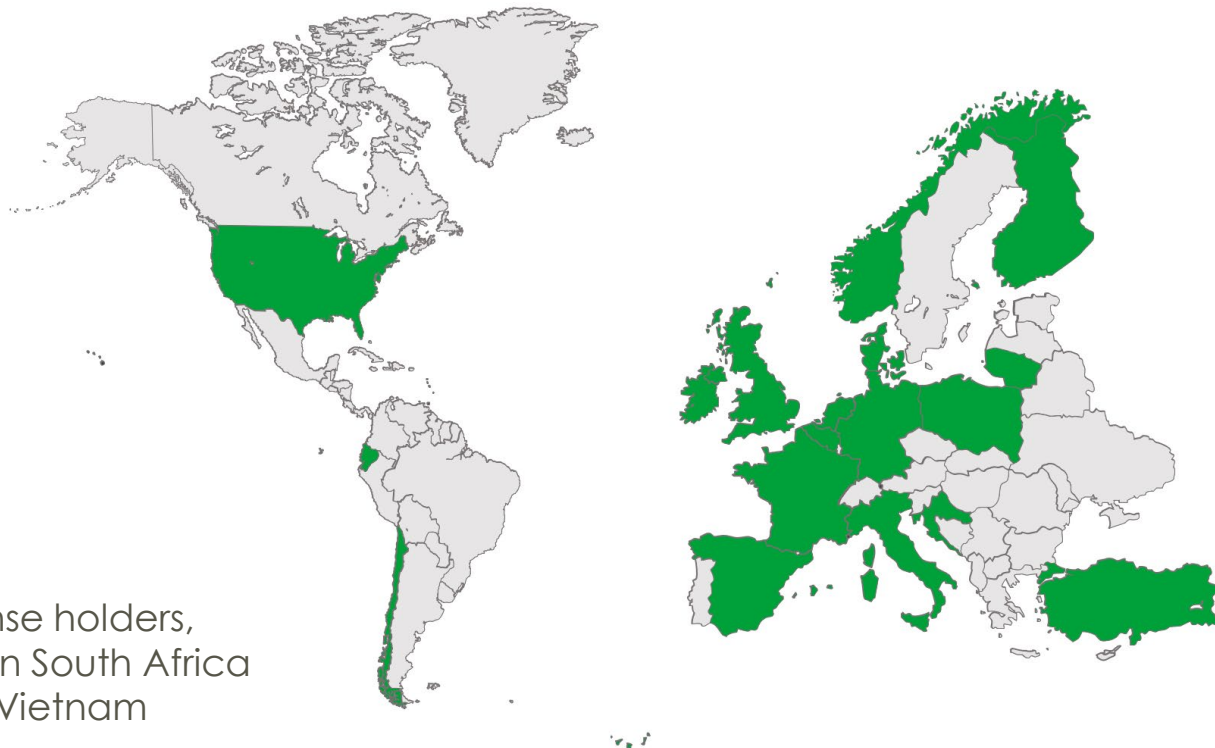
Why are more and more retailers and brands adopting the GGN label?

- More flexibility in sourcing due to larger certified volume
- Increased assurance regarding food safety and animal welfare
- More cost-effective sourcing due to:
 - Higher supply volumes
 - Lower label license fee



THE GGN LABEL

Countries with GGN label license holders



● License holders,
also in South Africa
and Vietnam



THE GGN LABEL

Countries with products carrying the GGN label



● Products carrying the GGN label

