



CERTIFICATION OF FISHMEAL AND FISH OIL IN AQUACULTURE FEED PRODUCTION AND UTILIZATION

Maggie Xu

IFFO China Director

mxu@iffo.net





IFFO is the global trade association representing marine ingredient producers and others in the supply chain.



IFFO RS is an independent third party audit and certification programme that assures the value chain of marine ingredients that are responsibly sourced and responsibly produced.



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6 DANGERS OF FARM-RAISED FISH



WHY BOTHER GETTING MARINE INGREDIENTS CERTIFIED?

Large retailers and their customers are increasingly concerned about how their farmed fish is grown.

BEST CHOICES

Abalone (farmed)
 Catfish (farmed)
 Caviar (farmed)
 Clams (farmed)
 Crab: Dungeness
 Crab: Snow (Canada)
 Halibut: Pacific
 Lobster: Spiny (US)
 Mussels (farmed)
 Oysters (farmed)
 Sablefish/Black Cod (AK, BC)
 Salmon (wild-caught from AK)
 Sardines
 Shrimp (trap-caught)
 Striped Bass (farmed)
 Sturgeon (farmed)
 Tilapia (farmed)
 Trout: Rainbow (farmed)
 Tuna: Albacore (troll/pole-caught)
 Tuna: Bigeye (troll/pole-caught)
 Tuna: Yellowfin (troll/pole-caught)
 White Seabass

GOOD ALTERNATIVES

Clams (wild-caught)
 Cod: Pacific
 Crab: imitation/Surimi
 Crab: King (AK)
 Crab: Snow (US)
 Lingcod
 Lobster: American/Maine
 Mahi mahi/Dolphinfish/Dorado
 Oysters (wild-caught)
 Pollock
 Rockfish (hook & line-caught from AK, BC)*
 Sablefish/Black Cod (CA, OR, WA)
 Salmon (wild-caught from CA, OR, WA)
 Sanddabs: Pacific
 Scallops: Bay, Sea
 Shrimp (US farmed or trawl-caught)
 Sole: English, Dover, Petrale, Rex
 Squid
 Swordfish* (US)
 Tuna: Albacore* (longline-caught)
 Tuna: Bigeye (longline-caught)
 Tuna: Yellowfin (longline-caught)
 Tuna: canned light
 Tuna: canned white/Albacore*

AVOID

Caviar (wild-caught)
 Chilean Seabass/Toothfish
 Cod: Atlantic
 Crab: King (imported)
 Monkfish
 Orange Roughy
 Rockfish (trawl-caught)
 Salmon (farmed, including Atlantic)
 Sharks*
 Shrimp (imported farmed or trawl-caught)
 Sturgeon (imported wild-caught)
 Swordfish* (imported)
 Tuna: Bluefin

* Red asterisk indicates a FDA & EPA mercury advisory for women of child-bearing age and children.

AK = Alaska BC = British Columbia
 CA = California OR = Oregon
 WA = Washington US = United States
 * includes bottom longline

MANY FARMERS ARE GETTING THEIR FARMING PRACTICES CERTIFIED

- The two most common standards:
 - the Best Aquaculture Practices (BAP) of GAA
 - the Aquaculture Stewardship Council (ASC)



The Responsible Seafood Choice

GAA BAP



BAP Feed Mill standard states:

*.. for fishmeal and fish oil derived from reduction fisheries, at least **50%** shall come from sources that are certified by the MSC (Marine Stewardship Council) or to IFFO RS (the International Fishmeal and Fish Oil Organization Responsible standards). (calculation based on mass balance)*

Alternatively, where MSC- or IFFO RS-certified fishmeal and fish oil are not produced nationally, the above minimum percentage can comprise material from active approved improvers programs as verified by IFFO, the Sustainable Fisheries Partnership and WWF



ASC FEED STANDARD

- **Currently under-development**
- **Due to be launched in 2017**
- **Drafts have made reference to IFFO RS and IFFO RS Improvers Programme being acceptable as an entry level for the fisheries whilst MSC remains the long-term goal**
- **Factories will require Good Manufacturing Practice with traceability etc as included in IFFO RS**





Increasingly to access some of the biggest and best markets farmed seafood products will have to come with a **reassurance** :

any marine ingredients used in their feed and made from whole fish came from responsibly run factories that sourced their raw material from :

- ❑ responsibly managed fisheries
- ❑ or at least fisheries that are making a credible effort to improve.

3 KEY IFFO RS PRINCIPLES



The unit of Certification is **the Fishmeal Factory** not a Fishery

Responsible Sourcing:

- of whole fish from fisheries that comply with the key principles of the FAO Code of Conduct for Responsible Fisheries (MSC accepted).
- By-products from non-IUU and not on IUCN red list

Responsible Traceability:

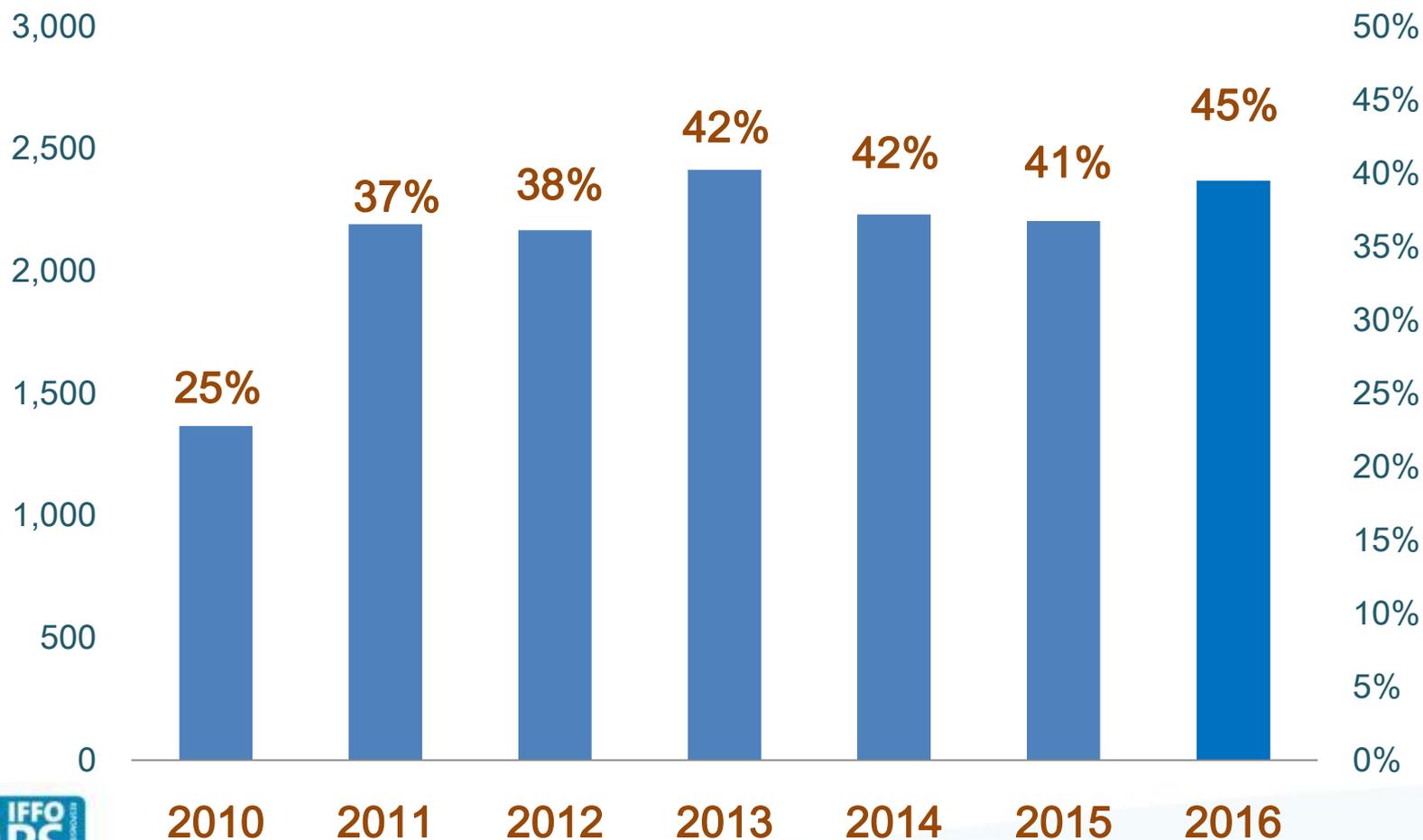
- of fishmeal and fish oil back to fisheries that are compliant with the Standard.

Responsible Production:

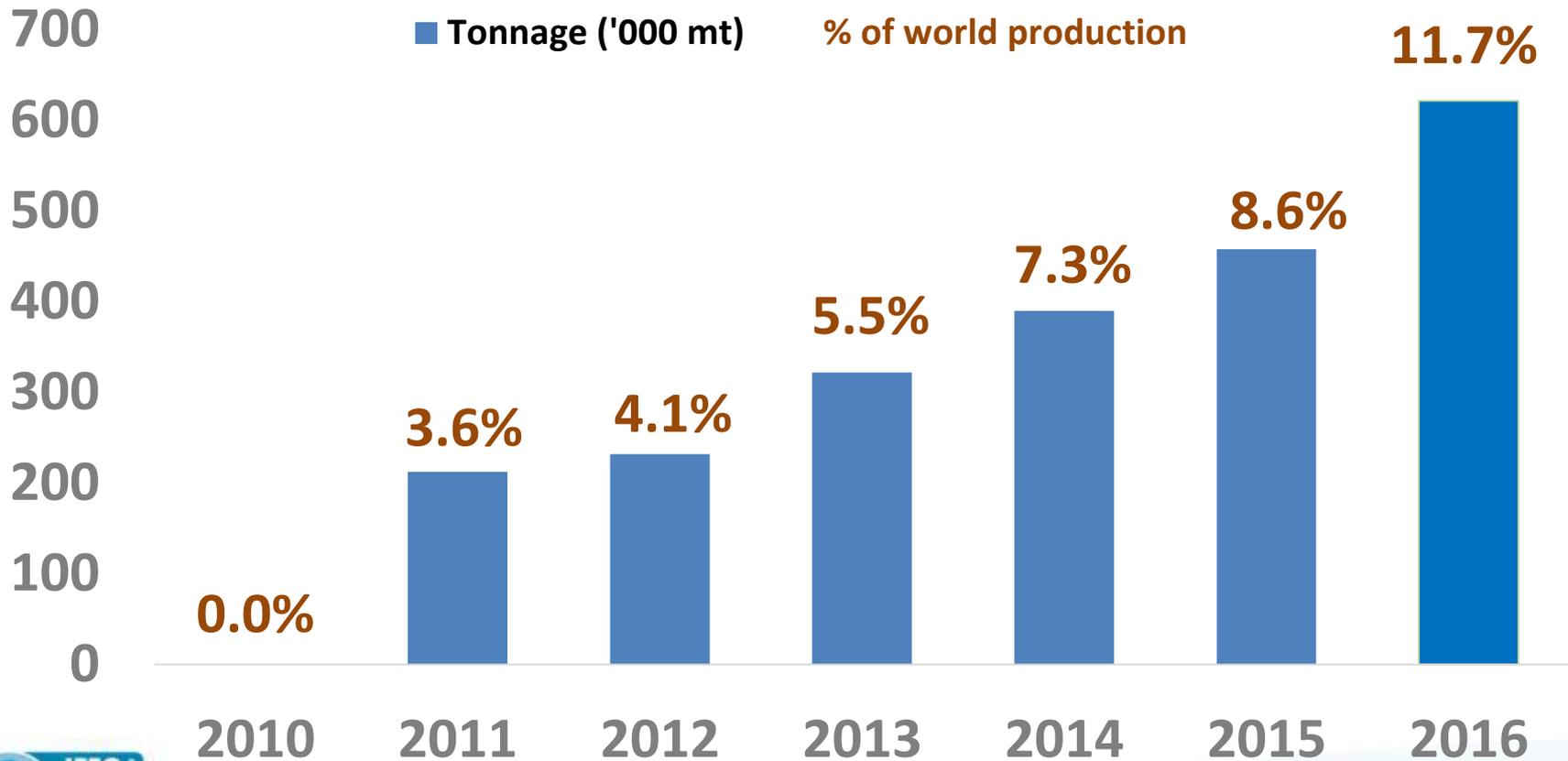
- of safe fish meal and fish oil. Entry level requirements covering pollution and social conditions in factory



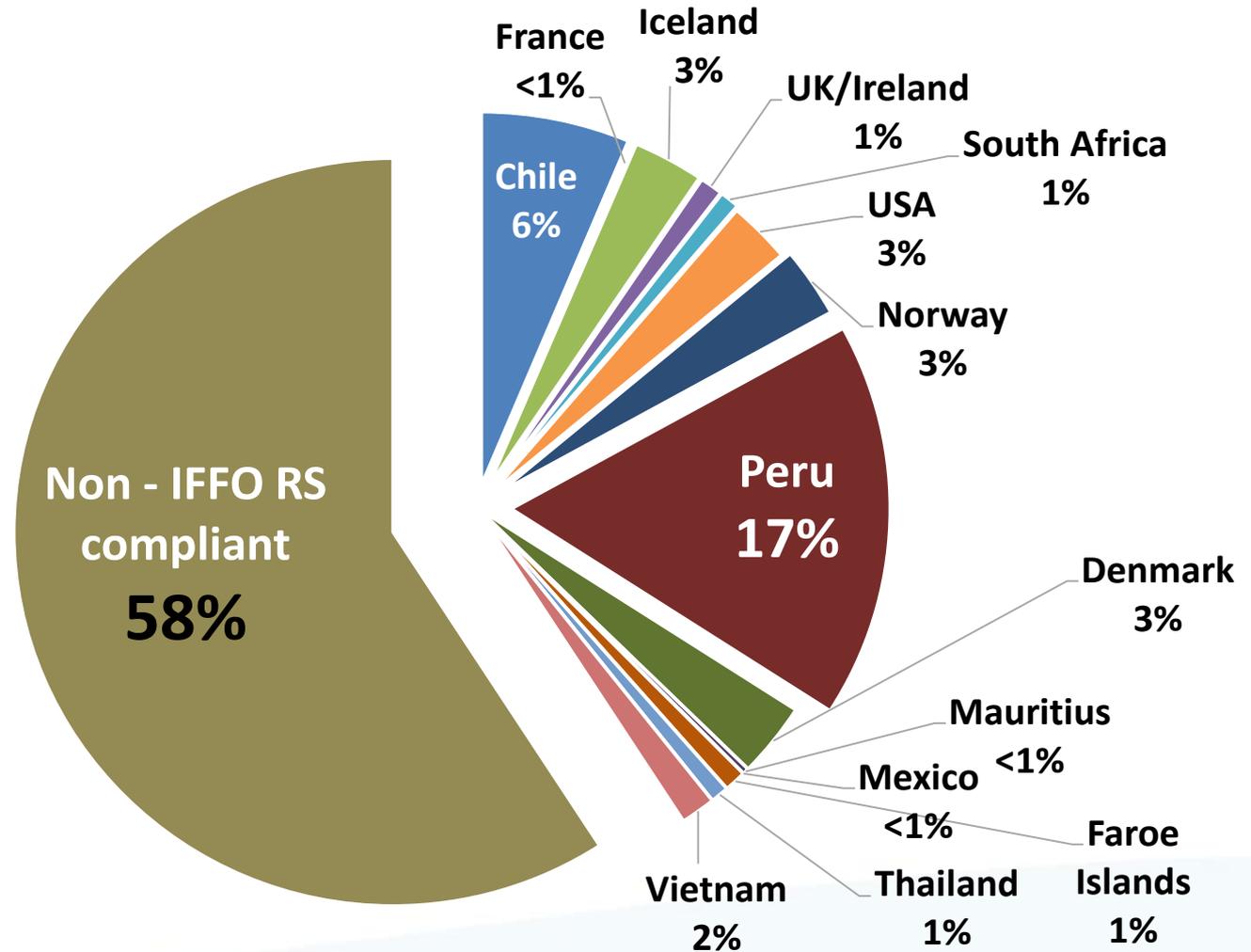
IFFO RS COMPLIANT MATERIAL – COMBINED WORLD PRODUCTION ('000 MT)



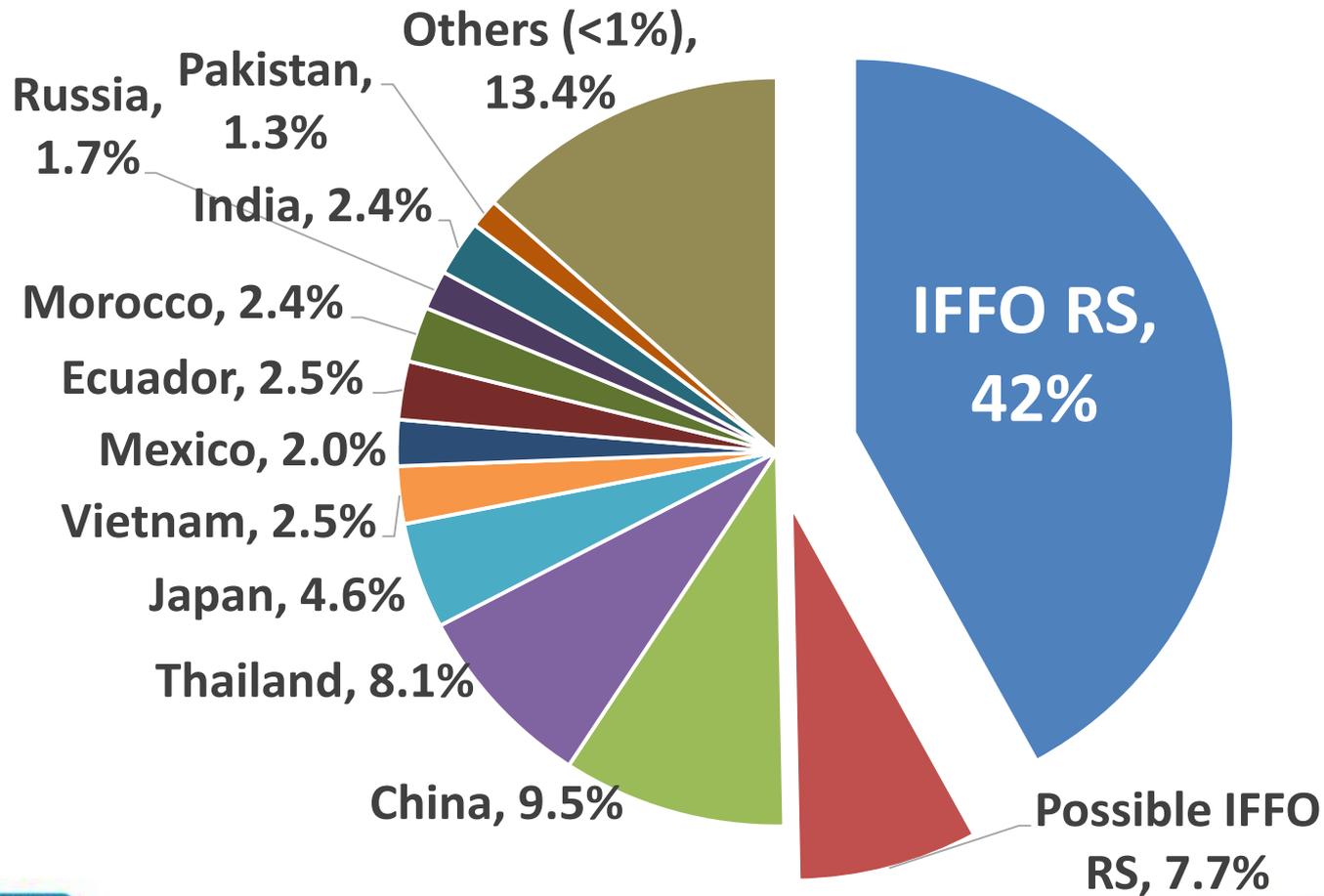
IFFO RS COMPLIANT PRODUCTION OF MARINE INGREDIENTS FROM BY-PRODUCTS



IFFO RS COMPLIANT MATERIAL – WORLD PRODUCTION 2015



IFFO RS NON - COMPLIANT MATERIAL



THE ASIA ISSUE

- Many of the fisheries in Asia are multi-species and can't be evaluated with conventional methodology
- Small artisanal fisheries provide millions of jobs but control is difficult
- New approaches needed



IMPROVERS PROGRAMME



To act as a ladder for fisheries and factories to demonstrate their commitment to achieve the standard



ENTERING THE IMPROVERS PROGRAMME

- Third party gap analysis of the factory and its raw materials against RS standard
- Implement a structured plan to improve to meet the IFFO RS standard in a reasonable time
- In the case of whole-fish raw material the supplying fishery must undertake a credible FIP with milestones agreed by a multi-stakeholder committee
- Annual 3rd Party audits are required to ensure milestones are being achieved



HOWEVER the multispecies nature of many tropical fisheries means

It is almost impossible for the fisheries to pass the assessment as it is currently structured.



IFFO RS V2.0

To review the current IFFO RS Fishery Approval Criteria

- ✓ Look at the relevance of existing clauses
- ✓ Proposed inclusion of a risk based assessment
- ✓ Proposed inclusion of criteria addressing mixed fisheries

To include Good Manufacturing Practice criteria to the factory assessment

- ✓ Still recognising existing standards (GMP+, FEMAS)
- ✓ Open accessibility to others without above standards

To review existing social clauses at the factory

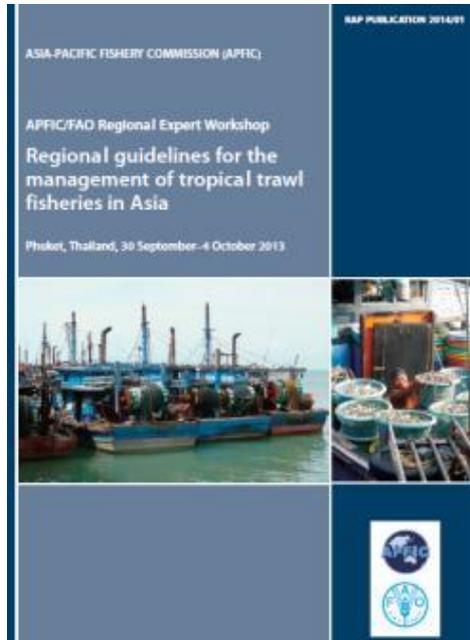
- ✓ Look at the appropriate level

To develop IFFO RS V2.0 in accordance with ISEAL codes

- ✓ To show good practice, robustness and credibility
- ✓ To allow recognition and harmonisation with other standards



MULTI-SPECIES FISHERIES V2



Intention to adopt the principles included in the Asia Pacific Fisheries Commission's (APFIC) recently published guidelines for the management of tropical trawl fisheries

Version 2 should be completed in 2017

NEXT STEPS IN MULTI-SPECIES ASSESSMENT DEVELOPMENT

- Draft criteria should be ready mid-2017
- Testing is already started with some fisheries including here in Thailand
- Later in the year we will open the draft for public consultation and would welcome your views
- It is hoped to have it included in Version 2 by the end of the year

NEXT STEPS

We are hoping by the end of 2017 to have factories with their associated fisheries in the Improvers Programme from the following countries:

Panama (already in the programme)

Thailand

Vietnam

India

Ecuador

Angola





FOR MORE INFORMATION
PLEASE VISIT
WWW.IFFO.NET/IFFO-RS

