



- The contents of these presentations does not in any way represent FFA position nor does it represent any formal opinion or position of any MSC body.
- ☐ This presentation may be conflicting as it will try to address some of the knowledge between Market Access and Private Certification.





Purpose: Traceability of certified seafood through the supply chain

- □ Fish are not always exported/sold immediately after catching
- ☐ Fish/Seafood from Catching to Export/sale will and may involve multiple state players. Example- Caught by a PNG flag vessel, Transshipped in Tarawa, unloaded in China and Exported to EU.
- Companies handle certified and non-certified seafood, and different species can be indistinguishable in final product.



- ■What does MSC Chain of Custody do?
 - Provides assurance that throughout the supply chain, certified products are segregated from non-certified products and are traceable back to a certified source.
- ■How does it do this?
 - Supply chain companies have to meet the MSC Chain of Custody Standard.
 These companies:
 - Implement relevant systems and procedures
 - · Are independently audited to verify their compliance



- 1. Certified products are purchased from certified suppliers
- 2. Certified products are identifiable
- 3. Certified products are segregated
- 4. Certified products are traceable and volumes are recorded
- 5. The company has a management system

These principles apply to all supply chain companies that participate in the MSC Chain of Custody program

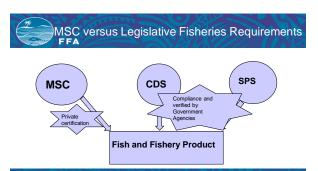




- 1. Origin- Certified-> Vessels, exporter etc.
 - How do you ensure that happens in your company
- 2. Separation/Segregations-> along the complete supply chain
 - Discuss how your company practices segregation along the supply chain?
 - Vessels
 - Factories
- Cold storage



- 3. Proper labelling- Discuss how your company ensure that the products is adequately label and correctly label
- 4. Only sell certified fish as MSC- How do or can you confirm this?







- Obligations of resources: Instruments of production and Conditions of handling/processing
 - Processing conditions
 - HACCP and Pre requisite programs
 - Traceability
- □ Obligations of results: Safety levels of the products.
- □ Obligations of control: Regulatory verification
 - Effectively implemented by a the CA
 - "Competency" is determined upon audit sanction by the EU
 - Strict control of certification of products





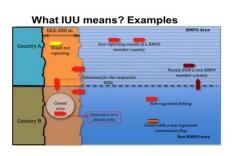
- □1. Health Certificate: "fish as food- safe to eat"
 - Priority is to protect the "health of the consumers"
 - Non negotiable
 - If you do not comply, you can not export fish to any of EU member states
 - Important that here the subject is not fish BUT FOOD
- 2. Catch Certificate (IUU): "fish as a legally caught resource"

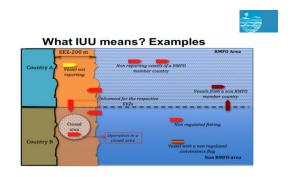




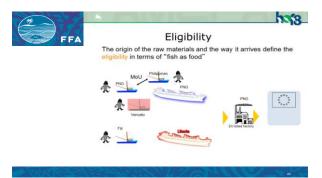


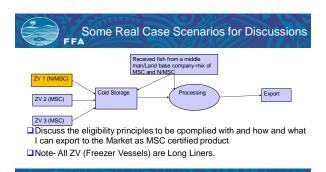


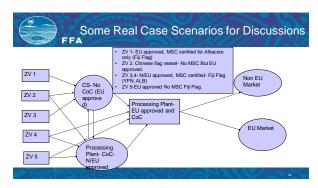


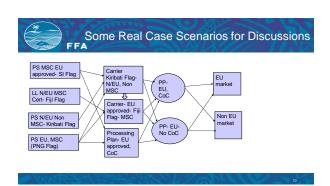
















☐ISO define traceability as:

• "the ability to trace the history, application or location of that which is under consideration....when considering products this can relate to origin of materials and parts, and processing history."



The ability to trace and <u>follow a food</u>, feed, food-producing animal or substance intended to be, or expected to be incorporated into a food or feed, through all stages of production, processing and distribution.



☐ The ability to **systematically identify** a unit of production, track its location, and describe any treatments or transformations at all stages of production, processing, and distribution (Magera and Beaton 2009)



- ☐ A record keeping system designed to track the flow of product or product attributes through the production process or supply chain.
- ☐Tracking- Forward and
- ☐Tracing- Backward



- ■Systematic
- Location
- ☐ How many? Where? What?



- ☐ It is achieved through proper documentation and record keeping
- □ Proper handling of protocol through processing, shipping and receiving to ensure that products can be traced accurately



- □Chain of custody refers to all steps in a supply chain that take possession of the product,
- □It provides record of the sequence of entities that have custody of fish as they move through a supply chain that allows the ability to trace a fish back to its origin.



- Principle 1- Certified products are purchased from certified suppliers
 - The organisation shall have a process in place to ensure that all certified products are purchased from certified suppliers.
 - Organisations handling physical products shall have a process in place to confirm the certified status of products upon receipt.
 - iii. Organisations with certified products in stock at the time of the initial certification audit shall be able to demonstrate that these products were purchased from a certified supplier and comply with all relevant sections of this standard before they can be sold as certified.



- 2. Principle 2- Certified products are identifiable
 - Certified products shall be identified as certified at all stages of purchasing, receiving, storage, processing, packing, labelling, selling and delivery.



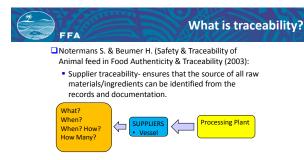
- 3. Principle 3- Certified products are segregated
- Certified and non-certified products shall not be mixed if the organisation wishes to make a claim about these certified products

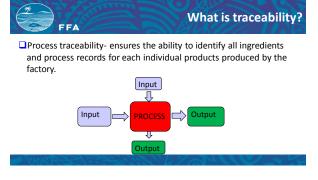


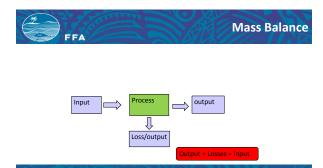
- **4. Principle 4-** Certified products are traceable and volumes are recorded:
 - i. traceability system that allows:
 - Any product or batch sold as certified to be traced back from the sales invoice to a certified supplier.
 - ii. Any products identified as certified upon receipt to be traced forward from point of purchase to point of sale.

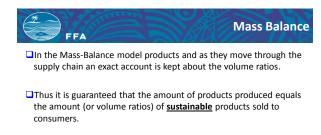


- **5. Principle 5-** The organisation has a management system
 - The management system includes the systems, policies and procedures used to ensure that the organisation complies with the CoC Standard.











- supply chain an exact account is kept about the volume ratios.
- ☐ Thus it is guaranteed that the amount of products produced equals the amount (or volume ratios) of $\underline{\textit{sustainable}}$ products sold to consumers.



- ☐ Traceability is a farm to fork approach or from Sea to plate
- □Useful to inform protocols and expectations to verify food safety, legality, and sustainability.

Two categories of traceability:

- 1. Internal traceability relating to the traceability of product and the information relating to it, within the company or factory, and;
- 2.External traceability- which relates to product information that a company either receives or provides to other members of the supply chain.



- □Globalization of the industry
- ☐Increase length of supply chain
- ☐ Demonstrating Due Diligence



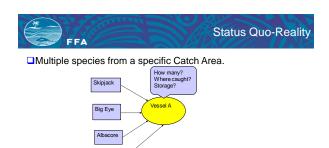
- ■Where you sits in the supply chain?
- ☐ Type of product handled and process?

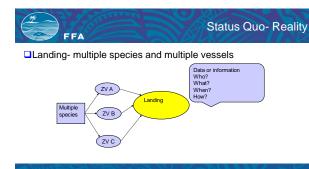


☐"It shall be a defence for the person charged to prove that he took all reasonable precautions and exercised all due diligence to avoid the commission of the offence".



- ☐ If Seafood is not fully traceable:
 - Difficult to recall
 - Impossible to prove it from legal sources
 - Legality
 - Accountancy
 - Certification
- ☐ Companies that lack proper traceability documentation and protocols throughout their supply chain are at legal and reputational risk.







□Who is responsible?□Does any one verify?□During landing- what documents?

- FFA Status quo

 Data often not recorded or poorly recorded
 Data do not follow the product
 Data mostly paper based
- Status Quo

 Not willing to change the way we do things- old habits die hard

 Lack if commitment
- □Paper provides "flexibility" to juggle supply and demand □Do not see the Return of investment on Traceability □Makes fraud easier to commit.



- ☐ food safety product recalls every week? sometimes it's several in a week!
 ☐ Business and Countries would be unlikely to survive the cost of a recall of several days' production, especially when you are finally going internationally.
- ☐ You have to ensure that if the worst did happen, you can isolate the affected stock as precisely as possible, and minimise the impact of the recall.
- ■You MUST have an effective traceability system in place.

(worse case- loosing the market)



- ☐ Market Access Requirements
 - SPS
 - Catch Certification

□Lack of enforcement

- Chains of custody
- Objective evidence that confirms eligibility



- ☐ Traceability systems are record keeping (monitoring) procedures that track and demonstrate the movement of a particular raw material(s) from supplier(s) through processing, to customers.
- ☐ The amount of information recorded varies depending on the product and its pathway through the processing and transportation.



1. Transfer (WR, Filleting)



Traceability system- Internal

Addition- additional ingredients are added during processing(Canning)





- Joining- insufficient raw materials from one source to fill an order.
 - Materials with two different ID codes needs to be combined.



- 4. Splitting- one traceable unit is split for use in different processes or products.
 - New ID codes is given





- ☐ One step forward one step backward approach
- ☐ If every steps in the supply chain had accurate documentation and all products mixing recorded, product should be traceable to its sources(s).
- ☐ Point of mixing pose the most difficult.
- ☐ With greater focus on IUU, seafood fraud, and seafood safety, the seafood industry must become more proactive in upgrading traceability practices to be able to meet their business needs and market requirements.



Current landscape and challenges

- ☐ Some reasons that seafood industry does not have a 100% end-to-end traceability:
 - o Seafood is a global commodity and faces a lot of language and technological barriers
 - Multi facets supply chain
 - Ongoing cost of investment
 - Lack of transparency
 - o Lack of investment will



☐ Have a look at some of the information that could be captured at different points of the process:

- o Traceability Is possible only when the material input and output records are maintained at each step
- o Traceability enables corrective actions to be implemented quickly and effectively when something goes wrong
- When a potential food safety problem is identified, whether by food business or a government agency, an effective traceability system can help isolate and prevent contaminated products from reaching consumers.



Traceability in the supply chain

When the product is first supplied Who is the product received from?

What exactly was received?

When was the product received?

What was the condition(s) of the product(s) when received?

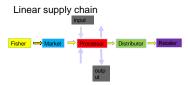
As the product continues through the manufacturing process:

• Which materials was

- materials was used to make each
- StorageBalance/Lost

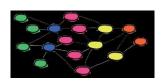
Once the manufacturing process has been completed on site • Whom the product has been supplied? • What exactly was supplied? • When was it supplied? • What quantity was supplied?

Linear supply chain vs Reality-challenge





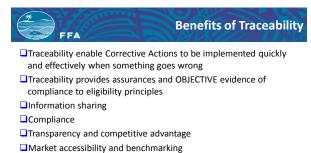
Multi level - Challenge



FFA

Factors driving traceability

- ■Legislation
- ■Market access requirements
- ☐ Food Safety Certification
- ■Customer Requirements
- ■Product Recalls
- ☐System Efficiency
- ☐Business Information Systems
- Branding





- ☐The regulatory standards for traceability
- ☐Third party certification standards for traceability
- Retail requirements and standards for traceability



■Consider the followings

- We do not keep records to that level of detail. (Why?)
- You are not a large business?
- There is a legal requirement here, and the various global retail standards have set the bench mark for traceability systems based on their experiences.
- What do the standard ask for?



Standards for traceability systems

- ☐ Traceability starts with material input (received) records, or tracking the lots that supplies come in
- ■BATCH OR LOT IDENTIFICATION
 - A lot is a quantity of food which is prepared or packages under essentially the same conditions usually:
 - From a particular preparation or packaging unit; and
 - During a particular time ordinarily not exceeding 24 hours



Standards for traceability systems

■Labelling

- Name of food
- List of ingredients
- Lot identification
- Name and address of manufacture and or supplier
- Country of origin



Quality of Traceability

- ☐ HACCP addresses the quality of traceability expected for regulatory compliance. 3 aspects:
 - 1.Food Receipt:
 - this means that food business must not receive a food unless it is able to identify the name of the food and the name of the supplier.



Quality of Traceability

- ■A food business must provide, to the reasonable satisfaction of an authorized officer upon request, the following information relating to food on the food premises:
 - o The name and business address of the vendor including vendor guarantee
 - o The prescribe name or, if there is no prescribed name, a name or description of the food sufficient to indicate the true nature of the food.



- ■Traceability system requirements:
- Traceability information be readily accessible in order to what, how much of and from where products need to be recalled.



Quality of Traceability

- The traceability system should include records covering:
 - Production records
 - What products are manufactured or supplied
 - Volume or quantity of products manufactured or supplied
 - Batch or lot identification (or other markings)
 - Where products are distributed
 - Any other relevant production records



Requirements for traceability

- □Level of information contained in a traceability system
- □ Recording information to maintain an effective system



- ☐ Traceability means that at any point in the supply chain, movements can be traced one step backward and one step forward.
- ☐When you consider a supply chain in all its complexity, this can be crucial factor in ensuring the quality of products.



Requirements for traceability 1 step Backward and 1 step forward

☐ For example, the FBO should be able to trace their raw materials/ingredients back to where it came from.





Requirements for traceability 1 step Backward and 1 step forward

- ■What do you receive?
- □Whom do you received it from?
- ☐ How much or many do you received?(types and or species)
- ■Conditions?
- ■Where it is?



- □ Up to now we have established where the raw material have come from and where the product is going.
- ☐ It is important that traceability is maintained within your own operations, whether they be storage, packaging and dispatch or during complex manufacturing operations.
- ☐ Internal traceability begins when:
 - o Received of raw materials and
 - Finishes at dispatch of finish products or customer orders.

Traceability Requirements- Understanding what is needed?

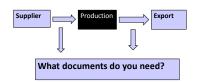
□Vessel

 verifiable, accurate, and traceable data/information starts with the capture of catch information at the point of harvest or with the first receiver (e.g., at the dock).

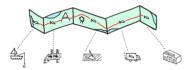


Traceability Requirements- Understanding what is needed?

□Internal Traceability – Black box mystery



raceability Requirements- Understanding what is needed?



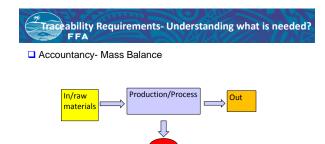
- ☐The essence of supply chain transparency consists of information about the companies supplying products.
- ☐ Its key value is proof of compliance is with particular requirements such as IUU and sustainability certification, and with risk management.

Traceability Requirements- Understanding what is needed?

- ☐ Fish Accountancy- Mass Balance
 - Both Health Certificates and Catch Certificates are about certain quantities of export....numbers.
 - These numbers could be:
 - A portion of a particular landing
 - o Portion of a particular production
 - o From multiple landing and multiple production



- ☐ Mass Balance: is the ability to trace a specific raw material or packaging item and reconcile the quantities received of that batch against the quantities used, destroyed or damaged, and remaining in inventory.
- ☐ Mass balance can help you prove the identity and source of certain raw materials, especially those that have claim of origin or other status that might be of value to the consumer.





- ☐ Fish Accountancy/ Mass Balance
 - Product = Total amount processed- total losses
 - E.g. 1: Total amount landed= 300MT
 - Total amount processed = 200MT
 - Total amount exported = 76MT
 - Amount of fish left from that landing= 100MT



Next time