# Current challenges and Strategies in Seafood Safety in Seychelles Karl Seraphine

Seychelles Bureau of Standards – September 2017

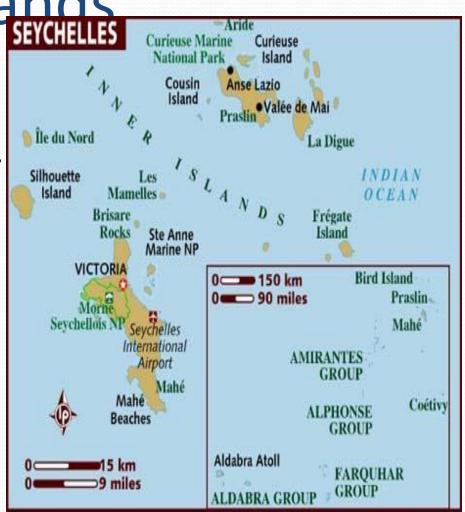
### Outline of presentation

- Introduction
- Export of Fish and Fishery Products Seychelles
- Legislative structure
- Structure of the CA
- Main challenges in seafood safety
- Strategies to address challenges

The Seychelles Islands

 Seychelles is a Small Island Developing State (SID) in the Indian Ocean.

- Consists of 115 islands with a population of 90,000 (2012)
- Upper middle income country with a GNP per capita of > US \$ 10,000 (2011)



#### Production of Fish and Fishery products

- Seychelles list of approved establishments: 1 tuna cannery, 5 fresh and frozen, 1 fish oil plant, 1 fishmeal plant and 13 tuna freezer vessel.
- Canned tuna in oil and brine consist more than 65% in volume of fishery products exported.
- Brine frozen tuna round represent 25%
- Crude fish oil (extraction from tuna head and from fishmeal production).
- Artisanal sector dominated by bottom fishing annual catch 3000 – 4000 tons yearly, over 100 artisanal vessels registered.
- Semi industrial sector over 30 small long liners targeting tuna and swordfish with by-catch such as marlin, sailfish, common dolphin fish, etc.

### Export of Fish and Fishery Products - Seychelles - 2013-15

- 1. Canned tuna (metric tonnes)
- **2**013- 55,**658.15**

**2014 - 46,136.44** 

•2015 - 43,850.42 (-5% of 2014)

#### Fishmeal (metric tonnes)

• 2013 – 6278.74

• 2014 – 5646.53

• 2015 - 6267.8<sub>1</sub>

Major markets – Sri Lanka, Japan, Australia and Ghana

#### Fish Oil (black oil)

• 2013 – 672.64 mt

• 2014 – 336.40 mt

• 2015 – 521.64 mt

Major markets: Lceland and Malaysia

#### Fish Oil (white oil)

• 2013 – 377,40 mt

• 2014 – 289.00 mt

• 2015 – 279.60 mt

Major markets; Switzerland and Netherland

#### Fresh Fish (metric tonnes)

2013 - 13.431

**2**014 - 32.615

**2015 - 97.553** 

Major markets – UK, France, Russia and Mauritius

#### Frozen By Catch (metric tonnes)

**2**015 - 1575.45

Major markets - Sri Lanka and Ivory Coast

### Legislative framework

- Seychelles enacted a bill 'Export of Fishery Products Act' in 1996 establishing the Director of Veterinary Services as the head of the Competent Authority, provided power to authorized officers, setting conditions for issue export permits, withdrawal of export permit, etc.
- The Act contained only basic provisions and was not equivalent to EU Fishery Products sanitary legislations as well as Codex requirements for international trade in fishery products.
- In 1999, Seychelles was listed on the EU in regards of export Fishery products to EU.
- Implementaion of technical regulations were needed to organize official control by CA and cover all aspects of the industry for export purposes.

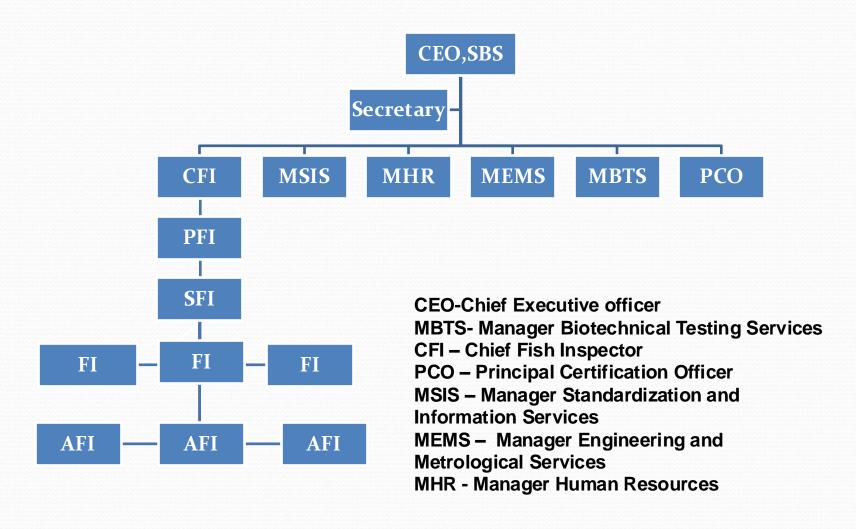
# Different Technical supports were involved within our unit (FIQCU)

Sanitary Regulation 2010 (Amendment 2011)

By-products Regulations 2010 Export of Fishery Products Act 1996 (Amendment 2010) Aquaculture Regulations 2010

Aquaculture Feed Regulations 2010

#### Structure of the Competent Authority



### Summary of main challenges in Seafood Safety - Seychelles

- Control of Artisanal fishing vessels
- Handling of by catch species from purse seiners
- Overcrowding in port facilities
- Human resources, staff retention is difficult
- Dual usage of fish holds by some freezer vessels supplying tuna.

#### Control of artisanal vessels

- Reg 853/2004 Annex III, Section VIII, Fishery Products, Requirements for vessels.
- All artisanal vessels registered with agreement number issued by CA.
- Annual in-depth inspection –
  issuance of Approval Certificate or
  Renewal of Certificate
- Structural design and size of vessels, insufficient to respect all hygiene norms.
- Continuous sensitization of the fish handlers to improve handling practices. E.g. use of clean rubber boots in fish holds, avoid rough handling of fish



#### By-catch handling

- By catch constitute as high as 4% of total catch of purse seiners e.g. 1000 tons – 40 tons by-catch
- Main by catch species are wahoo, rainbow runners, common dolphin fish, bonito
- Small quantity dry salted or dry frozen on board larger portion are brine frozen with tuna
- The brine frozen unhygienic handling during unloading and transportation
- Used mainly for pet food and fishing bait

#### Handling and storage facilities- Port Victoria

- Port Victoria handle about 85% of tuna caught (approx 300,000 to 350,000 tons annually) in the Western Indian Ocean
- More than 30 EU purse seiners uses Victoria as their base. Berthing space is limited - overcrowding
- No stand alone cold storage facilities
- Sometime storage done on board reefer vessels



#### Strategies to address the challenges

 Japanese grant – Extension to second designated artisanal port has been started(2016) – successfully accommodate unloading and mooring more fishing vessels.

• Government through SPA jointly is constructing a new industrial port facility which will include a cold storage, berthing space, bunkering facilities and better net repair facilities, etc.

# Strategies to address the challenges (cont..)

- HUMAN RESOURCES
- Staff are not fully qualified and need further training.
- Some staff do not possess relevant minimum qualification to attend to further training.
- There is a need to recruit qualified personnel

### Strategies to address the challenges (cont..)

- Maritime Training Centre has strengthen the module on HACCP, Fish Inspection/Food Hygiene to produce better trained potential fish processing technicians and fish inspectors
- Ministry committed to improve performance of the CA by providing resources to put in place an inspection system based on the requirements of **ISO 17020 Quality System**
- Ministry is continually assisting with capacity building (provide facilities and Qualified personnel)

### Strategies to address the challenges (cont..)

- Dual usage of fish holds by some freezer vessels supplying tuna.
- The CA has written all the parties in relevant about the mentioned issue
- The CA has started to implement the procedure.
- Eg. During Boat inspection, CA ensure that all its staff verify the fish hold and fuel usage system.
- The CA has already started to seal the dual usage of fish hold
- Any vessel does not comply with the procedure, the CA will deal with it.











# THANK YOU FOR YOUR ATTENTION