

Leslie, Aimee (2019) Collaborating for fisheries sustainability: perspectives from new research in Peru. In: IFLAS Open Lecture, 14 May 2019, University of Cumbria, Ambleside, UK. (Unpublished)

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Collaborating for Fisheries Sustainability: Perspectives from new research in Peru

WWF

CFR

Lessons Learnt

Cooperatives

Formalization

Peruvian Fisheries

Carlos

The Future

Aimée Leslie

aimée.leslie@wwfperu.org

Carlos Bayona

- Carlos is 42 and has 3 kids.
- He's been working in fisheries since he's 8, and is a captain since 17.
- For 2 years now he has been the Isilla Cooperative president.



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The artisanal fisheries of Peru



44 161
Artisanal fishers

16 045
Artisanal vessels

62%
Operate informally

Peru

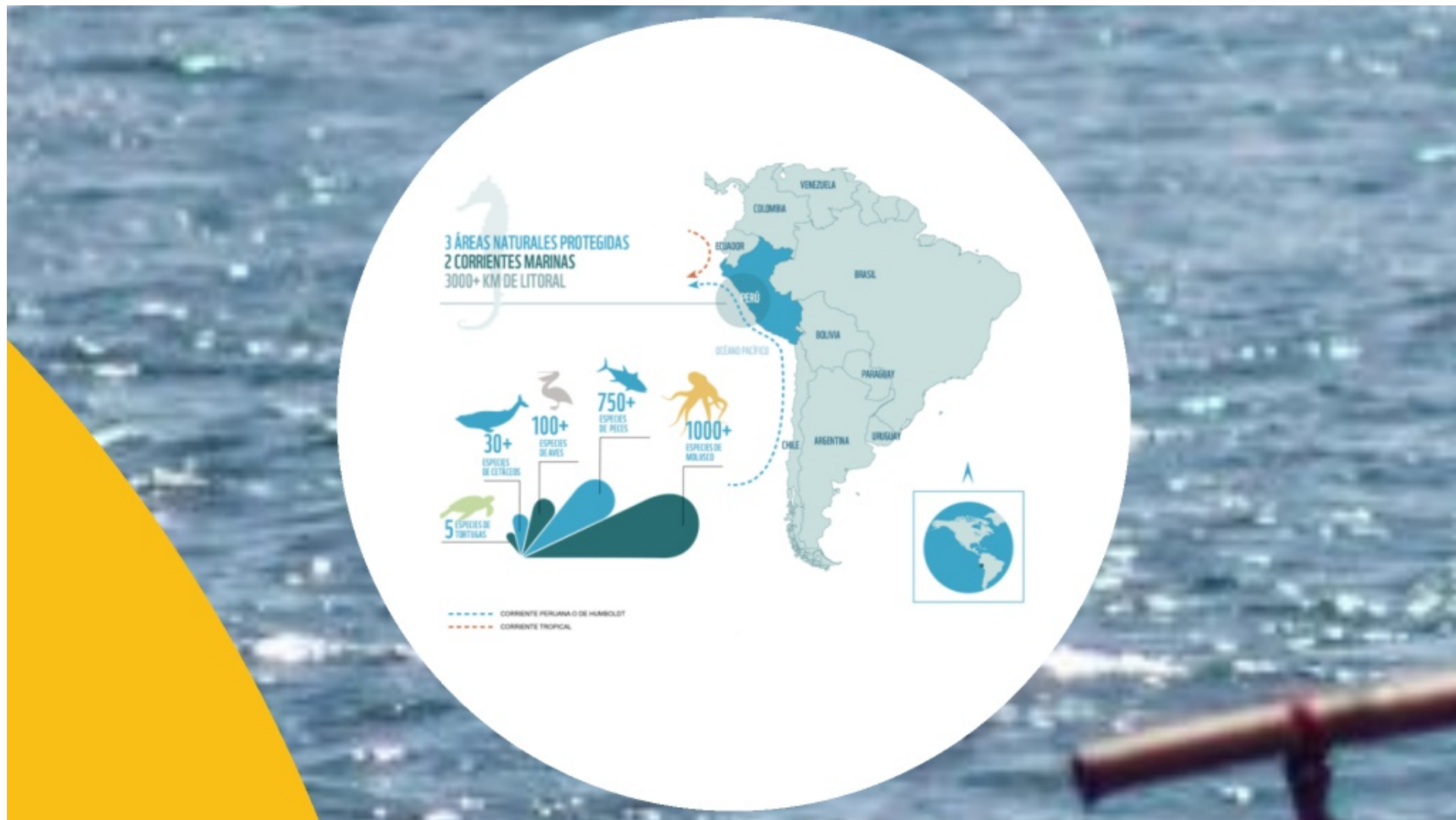


Pota



Perico





Giant Squid

- > 3000 vessels
- > 11000 fishers
- 514 thousand tons fished in 2015
- Export value in 2017: U\$ 405 million

**A day at
sea**



**This is how you live
the pota fisheries**





Mahi mahi

- > 2000 vessels
- > 4000 fishers
- 61 thousand tons fished in 2015
- Export value in 2017: U\$ 95 million





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The formalization dilemma

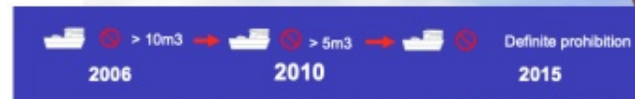


62% of the fishing fleet is informal, i.e. has no fishing permit or vessel registration certificate (2012 census)

**Illegal
Shipyards**

Legislation

Illegal boat building contributes to deforestation





Alternatives to informality

SIFORPA I

Legislative Decree 1273 for vessels of less than 6 tons of storage (2016)

Main issues:
No verification system

Cooperatives Pilot Programme

003-2018-PRODUCE for vessels up to 32 m3 of storage (2016)

Main issues: SIFORPA has less requirements and fishers still face corruption in ports

SIFORPA II

For vessels between 6 and 32 m3 of storage (2018)

Main issues: Further weakens cooperative model and legalizes illegally built ships



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The Cooperatives



Importance

Requirements

La Islilla

La
Tortuga

The Cooperatives





Requirements for the Cooperatives

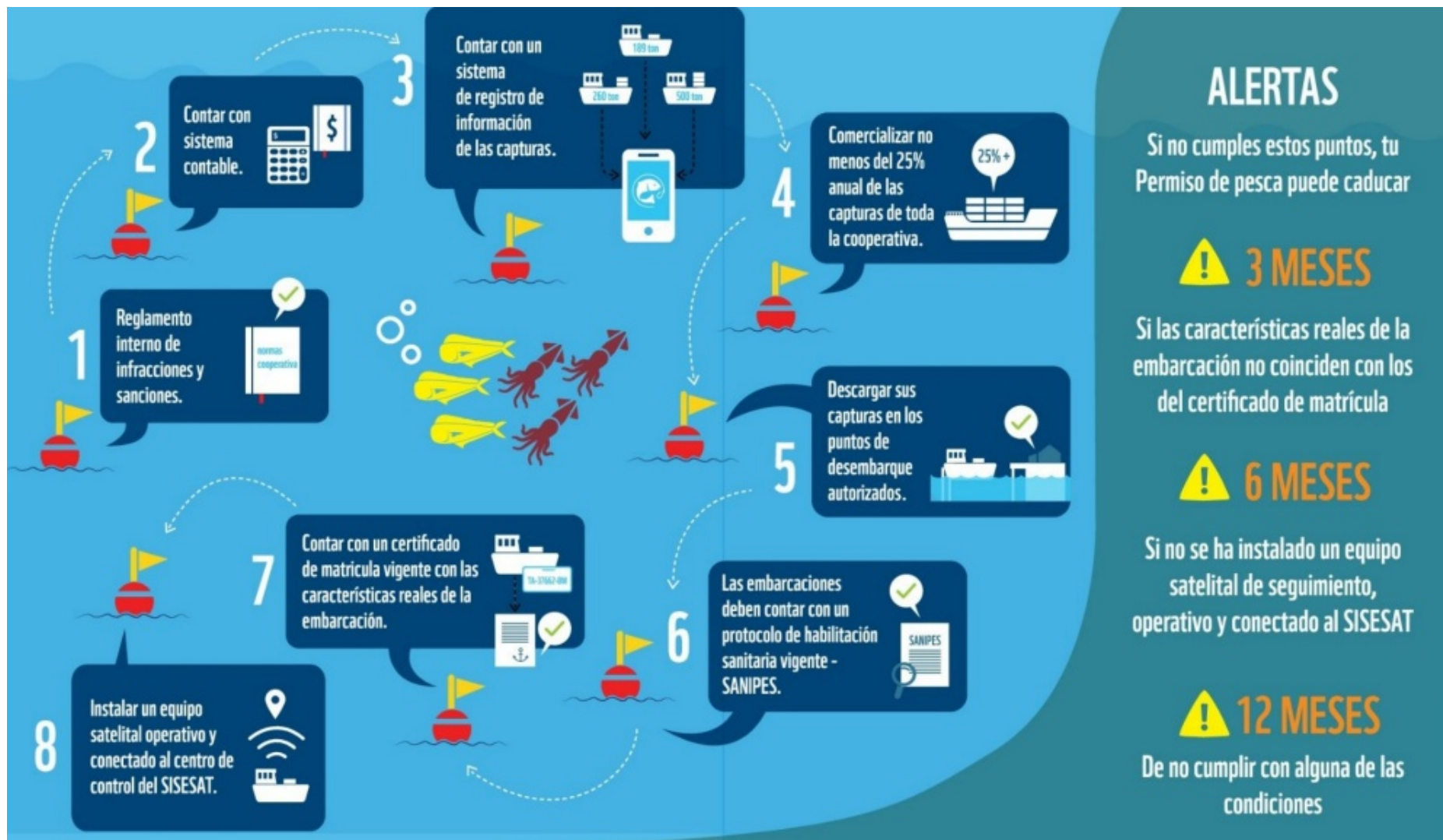
- 25% of fisheries product sales must go to the cooperative
- Disembarking in authorized ports
- Satellite tracking vessels
- Registration of captures in an electronic system



In detail

The Cooperative Roadmap





La Islilla



- 341 vessels
- 204 fisher members



La Tortuga



- 214 vessels
- 154 fisher members





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Collaborative Fisheries Research



Applicability

Methodology

Examples



When do you apply it?

- Development of the concept
- Execution
- Evaluation
- Reporting

Value the knowledge of both researchers
and fishers

Research stages

1. Identification of the problem
2. Agreement on general approach
3. Financing proposal
4. Sampling design
5. Development of the field protocol
6. Observation in the field
7. Data management
8. Interim planning and progress reports
9. Analyze and interpret results
10. Disseminate information to fishery managers



The onboard freezing system proposal





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Our work



Capacity
building

Adding value
to the supply
chain

Traceability

Bycatch
reduction

An Overview

Capacity building and support for the Cooperatives

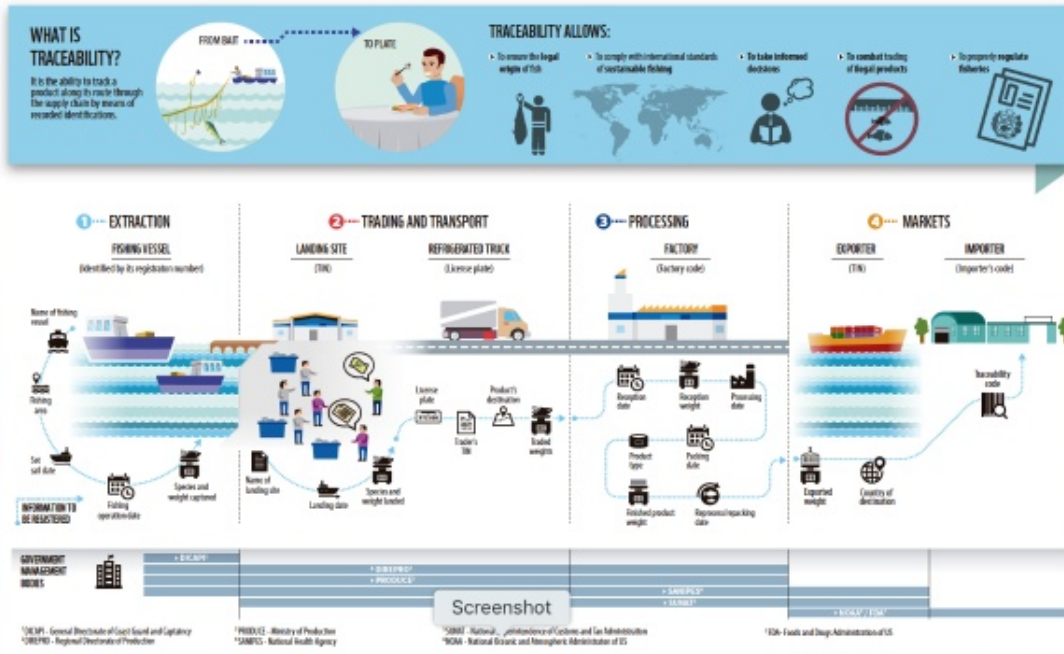
- Legal requirements
- Administration
- Finances
- Value add
- Dealing with complaints & corruption



Strengthening the value chain

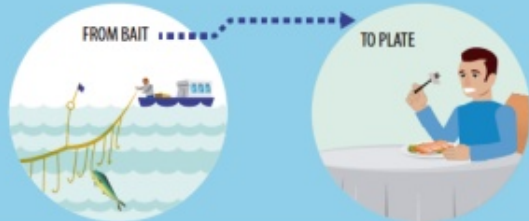
KEY DATA ELEMENTS TO ENSURE TRACEABILITY

Information required to be registered throughout the different stages of the supply chain of the mahi mahi exported to the US to ensure its legal origin.



WHAT IS TRACEABILITY?

It is the ability to track a product along its route through the supply chain by means of recorded identifications.



TRACEABILITY ALLOWS:

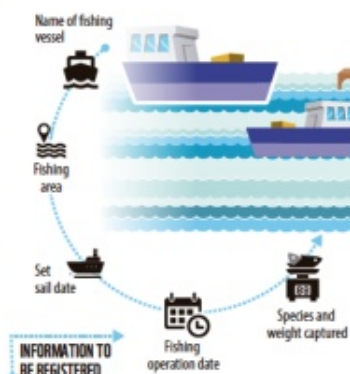
- ▶ To ensure the legal origin of fish
- ▶ To comply with international standards of sustainable fishing
- ▶ To take informed decisions
- ▶ To combat trading of illegal products
- ▶ To properly regulate fisheries



1... EXTRACTION

FISHING VESSEL

(Identified by its registration number)



2... TRADING AND TRANSPORT

LANDING SITE

(TIN)

REFRIGERATED TRUCK

(License plate)



3... PROCESSING

FACORY

(Factory code)



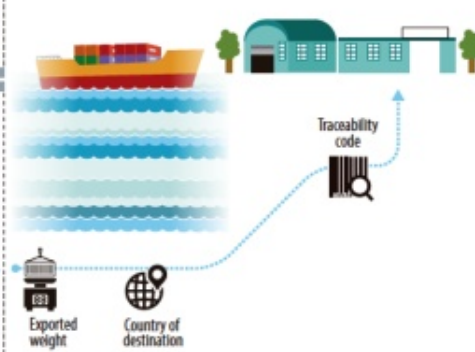
4... MARKETS

EXPORTER

(TIN)

IMPORTER

(Importer's code)



GOVERNMENT MANAGEMENT BODIES



► DICAPI¹

► DIREPRO²
► PRODUCE³

► SANIPE⁴
► SUNAT⁵

► NOAA⁶ / FDA⁷

Screenshot

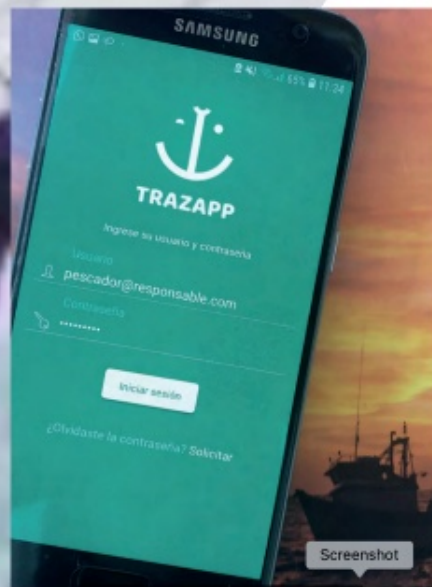
¹DICAPI - General Directorate of Coast Guard and Captaincy
²DIREPRO - Regional Directorate of Production

³PRODUCE - Ministry of Production
⁴SANIPE - National Health Agency

⁵SUNAT - National Superintendence of Customs and Tax Administration
⁶NOAA - National Oceanic and Atmospheric Administration of US

⁷FDA - Food and Drug Administration of US

TrazApp



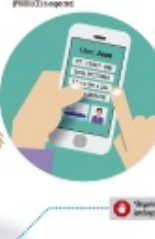
Screenshot

1 FISHING VESSELS REGISTRATION



Validation of the fishing event records from the General Directorate of Fisheries and Aquaculture (DGP) and the Ministry of Fisheries (MIPESCA) is required.

2 ELECTRONIC SET SAIL*



Validation

The general mobile device monitoring

3 LANDINGS



SCALE CONTROL

The system will also record the location and date of the landing, and the trading information between fishermen and buyers.

5 INFORMATION IN DATABASE



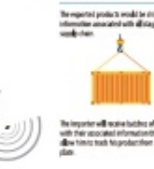
6 VALIDATION OF SOURCING INFORMATION



7 PROCESSING VIRTUAL ENVIRONMENT



8 EXPORTS VIRTUAL ENVIRONMENT



Screenshot

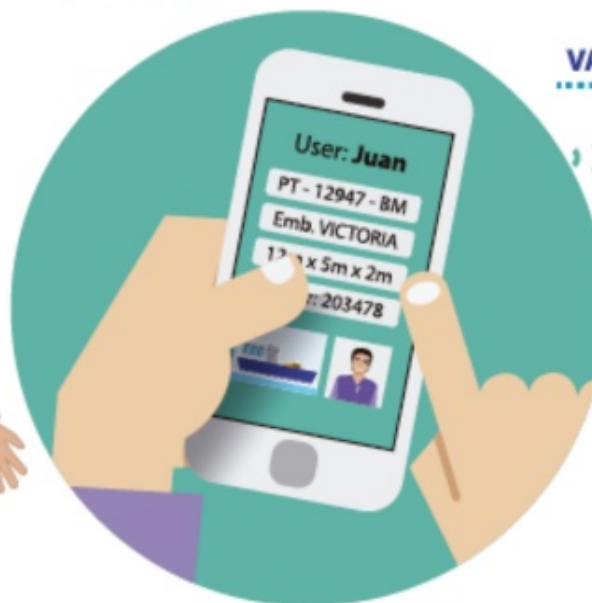
1 FISHING VESSELS REGISTRATION



Users (boat owners) will have an account in which they will register their fishing vessels and their characteristics (name, photograph, size, etc.).



Validation of the fishing vessels records from the General Directorate of Captaincies and Coast Guard of Peru (DICAPI) and the Ministry of Production (PRODUCE) is expected.



VALIDATION



Through the application it is proposed to request the set sail certificate to DICAPI electronically, before a fishing trip.



**Required to enable landings recording*

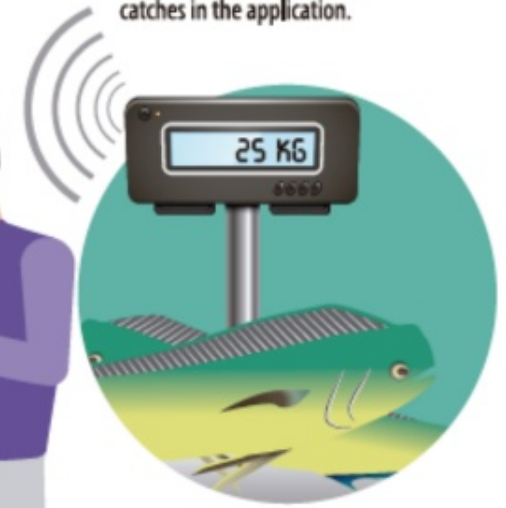
3 LANDINGS

After a fishing trip the user will record catches from his fishing vessel through the application.



4 SCALE CONTROL

Through electronic scales it is expected to record weight of the catches in the application.



The system will also record the location and date of the landings, and the trading information between fishermen and buyers.

Screenshot

5 INFORMATION IN DATABASE

The information recorded by the application will be stored in a database. In addition, it will be linked to other records such as:

- Trading and transport
- Catch per batch
- Fishing effort
- Landings



This database will generate a fishing record for each vessel and the Social Organizations of Artisanal Fishermen (OSPA), Guilds or Fishing Cooperatives.

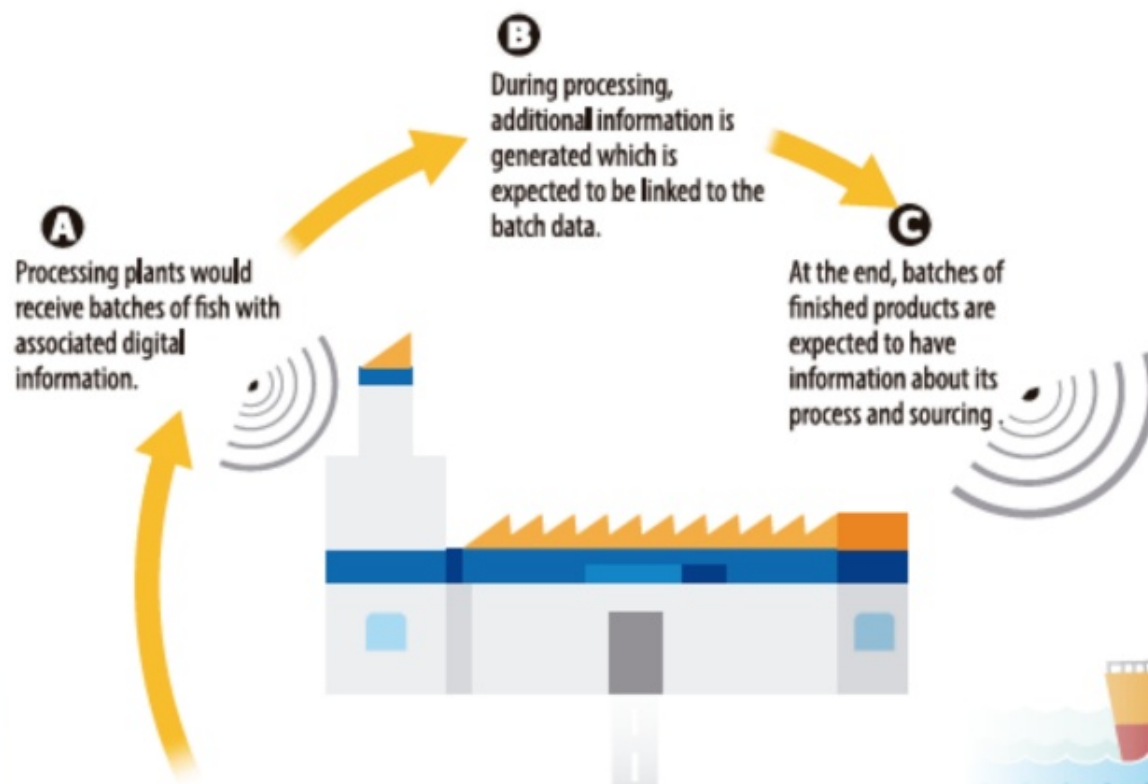
6 VALIDATION OF SOURCING INFORMATION

Validation of the data is expected to be done through crosschecks of records and information from different sources. These will be integrated and consolidated into the system.

VALIDATION



7 PROCESSING VIRTUAL ENVIRONMENT



8 EXPORTS VIRTUAL ENVIRONMENT

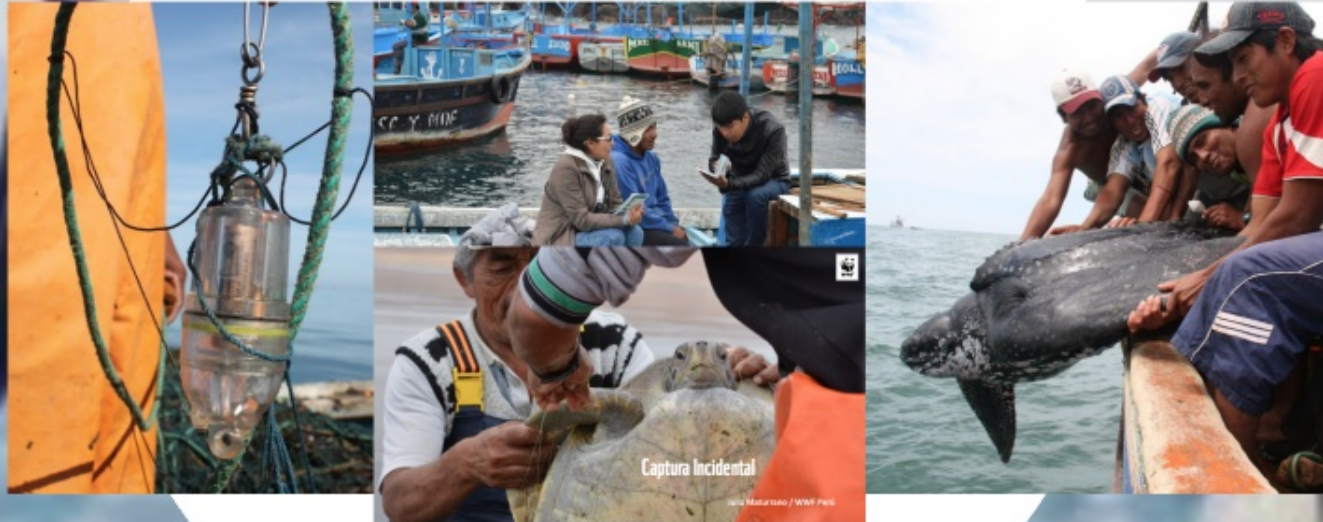
The exported products would be shipped with information associated with all stages of their supply chain.



The importer will receive batches of products with their associated information that would allow him to track his product from bait to plate.



Working with fishers to reduce bycatch



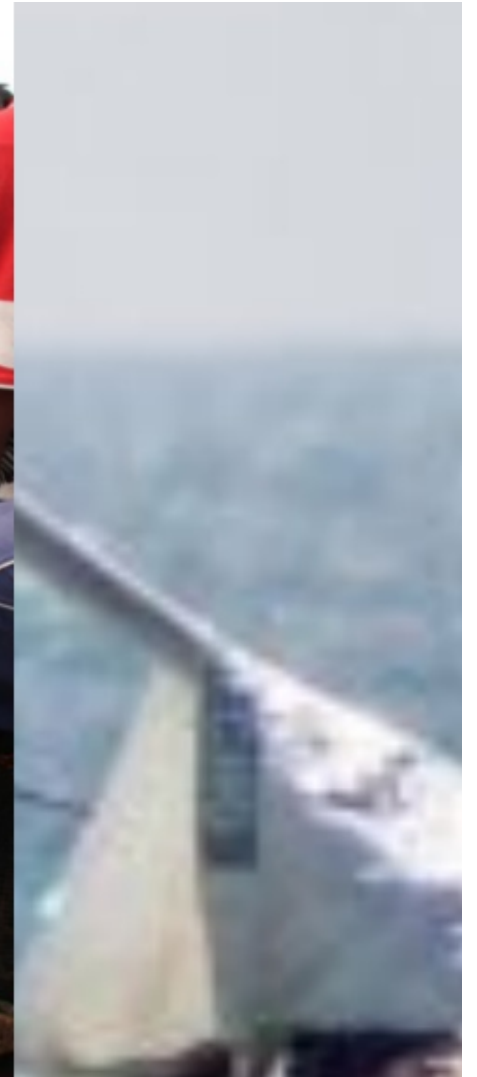






Captura Incidental

Julia Maturrano / WWF Perú



In Summary...







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A photograph of three men standing on a beach. The man on the left is wearing a white t-shirt with 'PURA' and 'Punta' printed on it, and blue jeans. The man in the middle is wearing a blue polo shirt and blue jeans. The man on the right is wearing a red and black striped polo shirt and blue jeans. They are standing in front of several boats, including a green and white boat and a blue and white boat. The background shows a blue sky and a body of water. The photo is set within a yellow circular frame.

What we've learned



What we've learned

- Human relationships: our strength and weakness
- Value local knowledge
- Incorporate the needs of your partners in the project
- Create participatory spaces and joint analysis of results
- Remember who are left when you leave, the results of your project depend on it.



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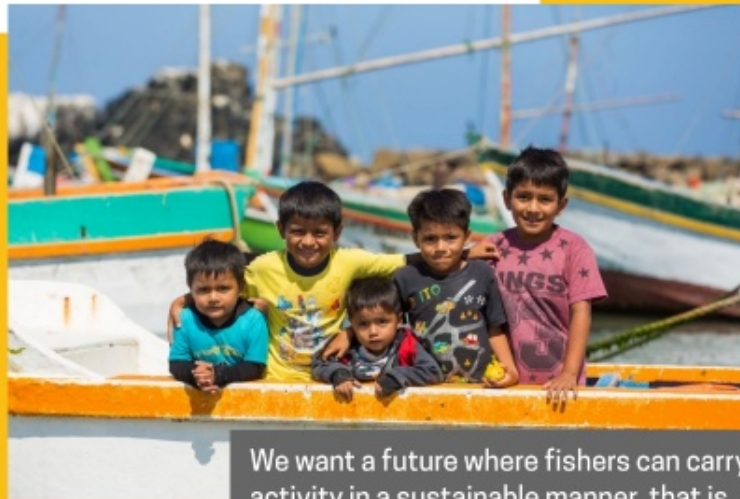
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The future we want



The future we want



We want a future where fishers can carry out their activity in a sustainable manner, that is, the stock remains healthy, the impact on non-target species and the ecosystem is minimal, and fishing provides healthy food to our tables and well-being to coastal communities.

¡Muchas gracias!





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