

TAILS/Ikasavea rationalization

The various ways of recording catch with Ikasavea



Landing surveys with Ikasavea

Fisher

Fishing trip

Fishing event

Catch

Survey date * 2023-08-24 Surveyor * [dropdown] Trip

Fisher * [dropdown]

Landing site * Malokilikili Landing n° * 27

Trip departure * 2023-08-24 07:45 Trip return * 2023-08-24 08:12

Number of crew : 2

Targeted fisheries for this trip :
Lobsters [dropdown] Reef fishes [x]
Select and add >>

Reason fishing * For income For subsistence

Fishing trip by boat (tick if yes) *

Boat name : [input]

Motor type : - select - [dropdown]

Quantity of fuel : [input] [dropdown] Fuel value : [input]

Total travel time : [input] hours

Event Catch measurements Catch aggregated Load pictures

Event n° * 1 Fishing method * Gillnetting [dropdown]

Number of active fishers * 2

Reef zone * Lagoon [dropdown] Habitat * Mangrove [dropdown]

Fishing region * East Malo [dropdown]

Travel time from previous location * 0.016 hours

Time spent fishing * 0.416 hours

Fishing area longitude : 167.257307 Latitude : -15.720780

No catch for this event

Comments : Event (effort)



Same structure as TAILS

Manual catch recording

Bundle No :

Product type *

Species : **Euthynnus affinis**

Search species :

Previously recorded :

Sex: In berry

Maturity:

Fork length : cm

Weight : kg

Price :

Comments :

Record 1

Product type *

Species : **Euthynnus affinis**

Search species :

Previously recorded :

Total count : Total weight : kg

Estimated size (Fork length) : cm

Price :

Comments :



- Sample fish/invertebrate measurements (fork length, weight,...)
- Total count and weight by species (aggregated catch)

Using measuring board and photo



2932AEB2D83.jpg

Fish on measuring board - Board model SPC 03

Species : **Euthynnus affinis** Last modified by Vanua Daniei on 10/2/2023

Search species : e.g. Lutjanus kasmira

Previously recorded : Abalistes stellatus

Suggested → Euthynnus affinis (64.3)

Length : 29.7 cm Detected: 29.7

Weight : 475 g Detected: 475 Validate all Save & Ne

Sex In berry

- Board automatically calibrated and automatic length measurement
- Scale detected and weight read
- Species suggested and validated by operator

Using photo of catch on mat



← IMG_6238.jpg → How to use this tool

Ignore photo Move picture to...

If calibration issue :

Fishes on mat - Mat model SPC 01

Fishes on mat - Fork length (mm)

Nb of measurements: 1 2 3

Measurement: Single line Path

Species : **Scomberomorus commerson**

Suggested :

Previously recorded :

Sex : In berry

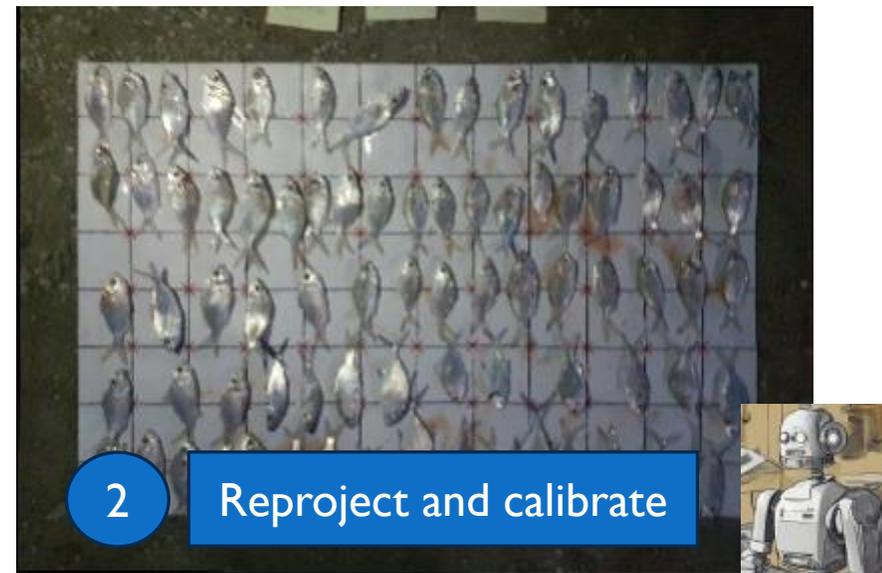
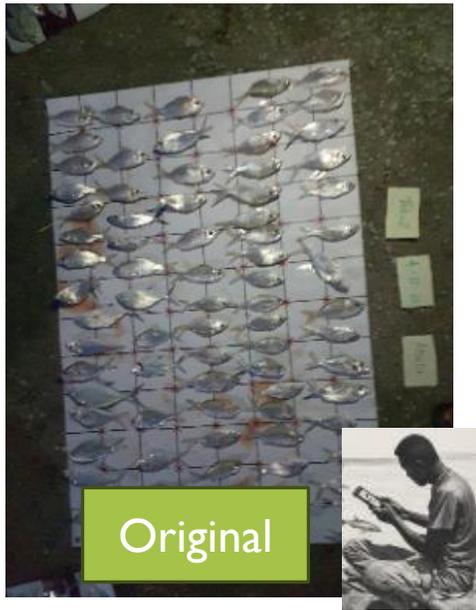
Maturity :

Product type :

Fork length: mm

- Mat automatically calibrated and automatic length measurement
- Species suggested
- Several mat types supported

AI processing of mat images



Fishes on mat - Mat model Pathway 12x8

Fishes on mat - Fork length (mm)

Nb of measurements: 1 2 3

Measurement: Single line Path

Species:

Suggested:

Previously recorded:

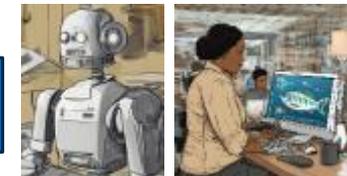
Product type:

Fork length:

Specimen No:

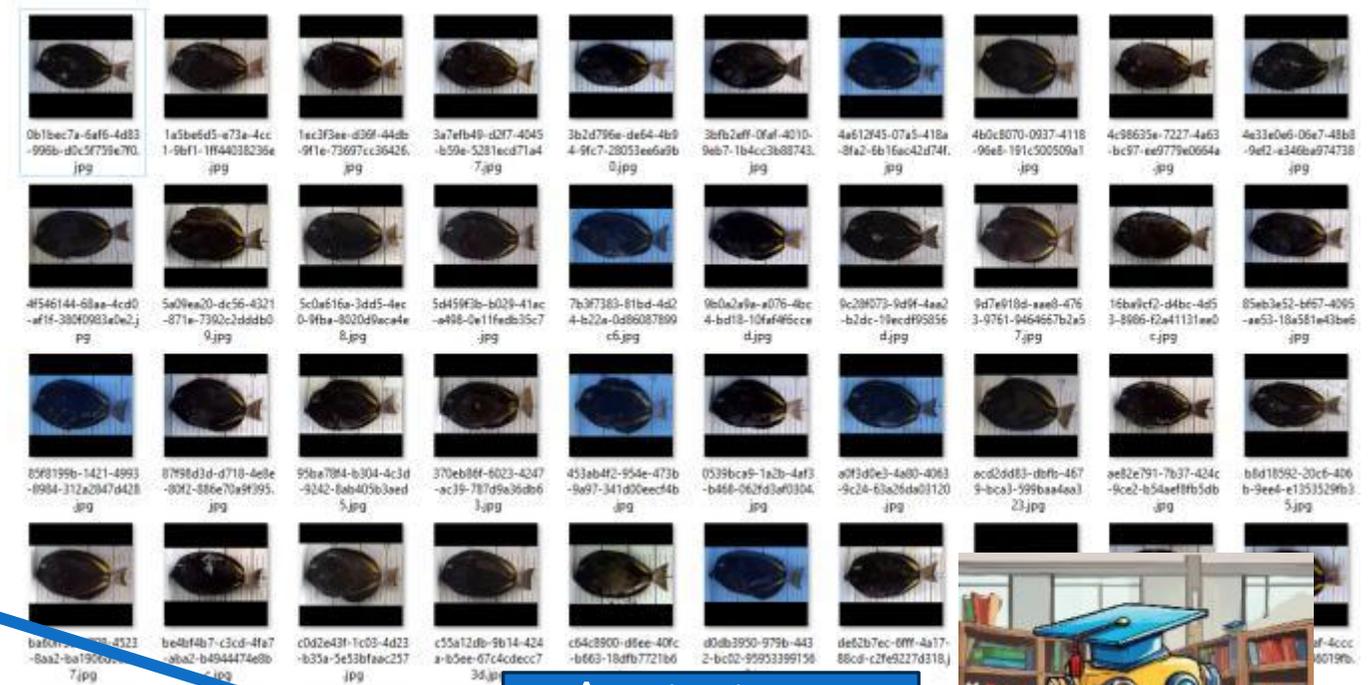
Comments:

- Humans on both sides
- AI assistance for image processing and analysis



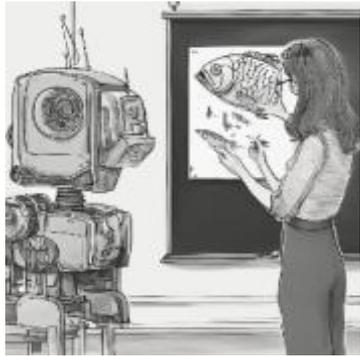
4 Identify & validate

AI model taught for species id



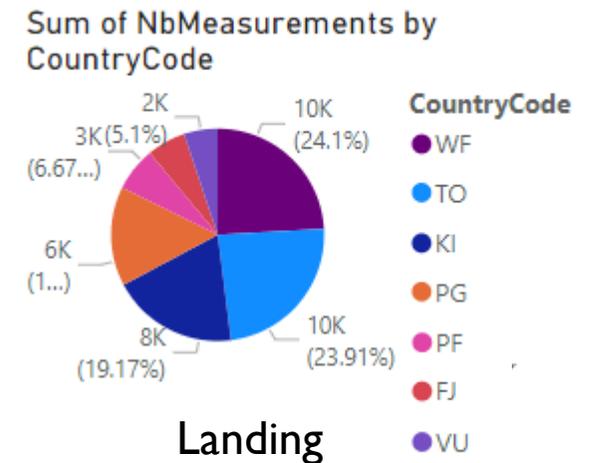
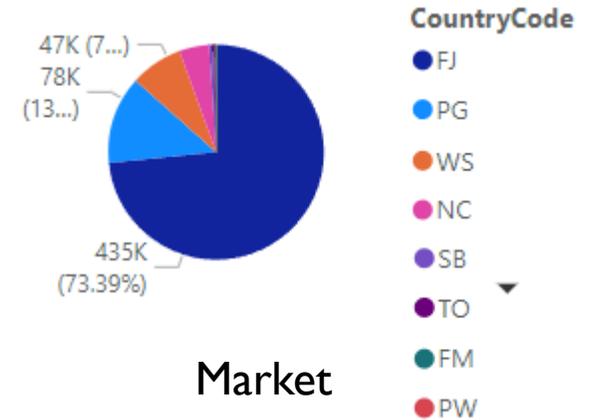
A. nigricans maybe ?

A. nigricans surely !



Ikasavea and catch data

- 181,000 photos and 816,000 measurements for market & landing surveys
- Many species including invertebrates (~960 species)
- Multiple measurements possible for invertebrates



Thank You



Special thanks and credits to countries using Ikasavea and new adopters

