

14<sup>th</sup> CDTI - NEDO Joint Workshop  
“Food Technology”  
May 27, 2026 Bilbao (Spain)



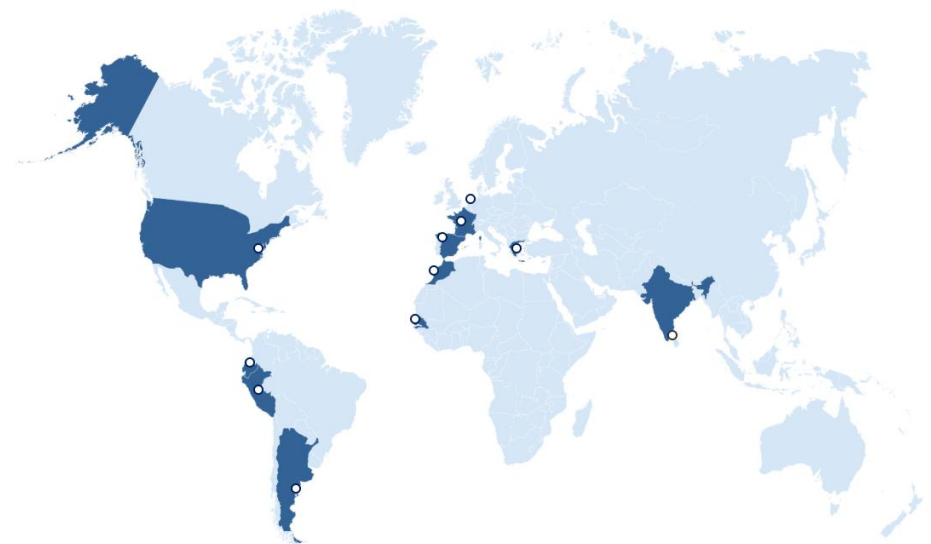
Octolarvae: regenerative aquaculture  
for small scale fisheries

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Scientific Director  
OCTOLARVAE (Profand Group)



## What is Octolarvae?

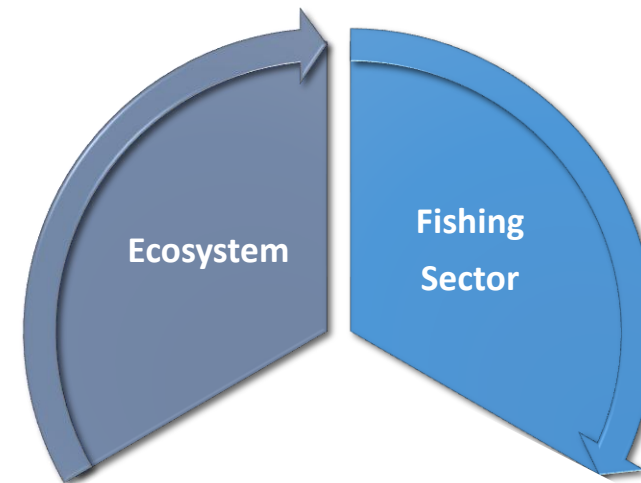
- ✓ OCTOLARVAE belongs to Profand Group





# What is Octolarvae?

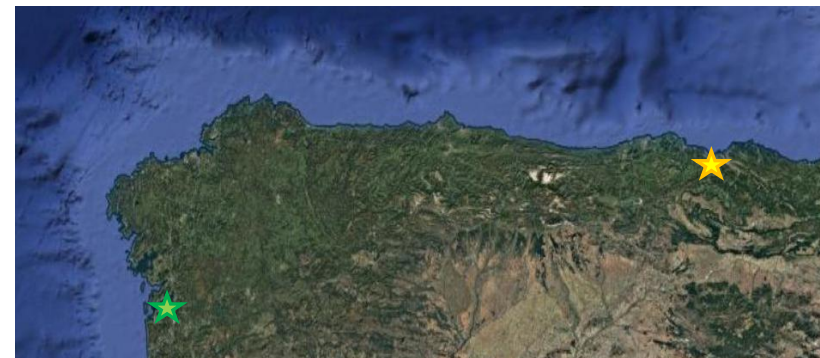
- ✓ OCTOLARVAE belongs to Profand Group
  - What we do? Regenerative Aquaculture





## What is Octolarvae?

- ✓ OCTOLARVAE belongs to Profand Group
  - What we do? Regenerative Aquaculture
  - Where are we? Ría de Vigo (NW Spain)
  - How many people? 6
  - How old are we? Operating since March 2025





# What is Octolarvae?

## ✓ Research & Development projects

«New technologies and techniques for the consolidation of octopus larval aquaculture” (**OCTOLARVAE**) IDF-20230002  
1.2 million €, 2023-2026



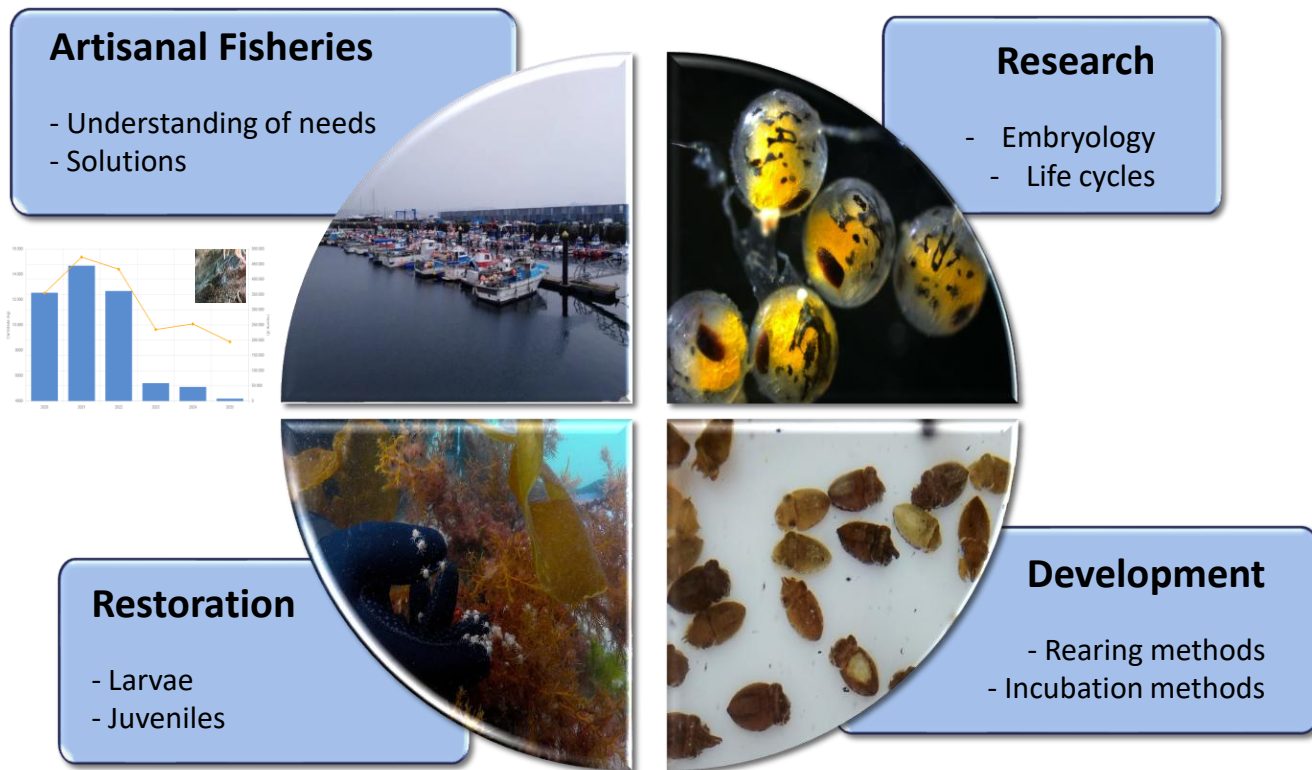
«Development of Galicia’s regenerative aquaculture (**ACUIREGAL**)», 2.1 million €, 2026-2028





# What we do?

- ✓ Identify ecological problems and define solutions
  - Artisanal fisheries
  - Species of high value and socio-cultural interest
- ✓ Research and development
  - Species without commercial aquaculture
  - Cephalopod egg incubation
  - Crustacean larval cycles
- ✓ Restoration and improvement of marine ecosystems
  - Repopulation with larval stages: Octopus, squid, lobster
  - Repopulation with juveniles: Sea spider, shrimps, cuttlefish
  - Collaboration with National Parks and Marine Reserves





# Main Challenges and Solutions

➤ Egg recuperation from fisheries and markets. Development of incubation methods

## Common octopus (*Octopus vulgaris*)

Recuperation of eggs from illegal pots



Larval release and research in planktonic phase

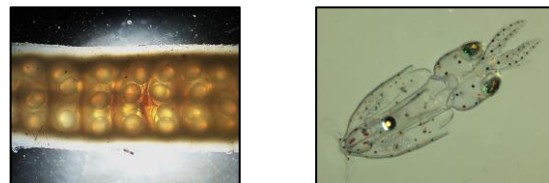


## Squid (*Loligo vulgaris*)

Recuperation of eggs from fishermen nets



Egg incubation for paralarval release

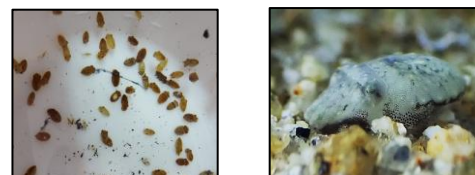


## Cuttlefish (*Sepia officinalis*)

Recuperation of eggs from fishermen nets



Egg incubation for juvenile release



## Lobster (*Homarus gammarus*)

Egg recuperation from the market



Egg incubation for larval release



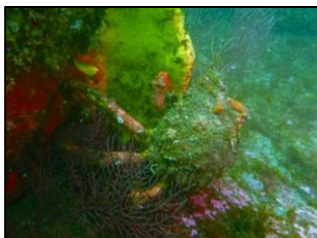


# Main Challenges and Solutions

## ➤ Female maintenance and development of larval aquaculture for juvenile release

### Sea spider (*Maja brachydactyla*)

#### Rearing of wild brooding females



#### Planktonic larval development



#### Juvenile release

SOMOSMAR

Profund suelta en la reserva marina de Lira mil juveniles de centollas criadas en Moaña

La Voz de Galicia



### Shrimp (*Palaemon serratus*)

#### Rearing of wild brooding females



#### Planktonic larval development



#### Juvenile release

SOMOSMAR

Exclusivo suscriptores

Galicia marca un hito en acuicultura regenerativa: sueltan juveniles de camarones en las islas Cíes

ALEJANDRA PASUAL

VIGO / LA VOZ

La Voz de Galicia






Suelta de camarones en las Cíes





# Main Challenges and Solutions

## ➤ Regenerative actions: Leading the blue future

	Sea spider	Shrimp	Common octopus	Squid	Cuttlefish	Lobster
Larva / juvenile	juvenile	juvenile	larvae	larvae	larvae	larvae
Amount	<b>1,142</b>	<b>1,047</b>	<b>152,669</b>	<b>209,955</b>	<b>633</b>	<b>7,542</b>
Location	Os Miñarzos Marine Reserve	Cies Island National Park	Ría de Vigo	Ría de Vigo	Ría de Vigo	Ría de Vigo
Date	July 2025	October 2025	Oct 25- Nov 25	Dec 25 – May 26	March 26 – May 26	March 26 – May 26
						

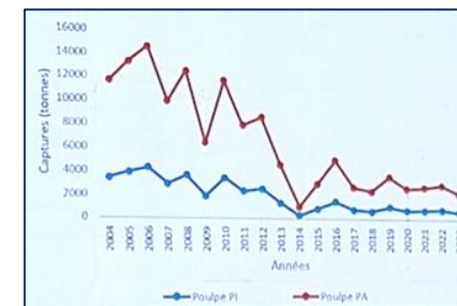


# Ideas for a Japan – Spain collaboration

- ✓ World greatest common octopus fishery: Mauritania



## Octopus Stock Overexploited



INRH, Nuakchot (Mauritania, Jan 2026)

Project: Develop regenerative aquaculture to enhance octopus local recruitment



# Thank you for your attention

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# Acknowledgements

## Financing:



## Institutions:



PARQUE NACIONAL MARÍTIMO TERRESTRE DE LAS ISLAS ATLÁNTICAS DE GALICIA



## Cofradías:



COFRADIA DE PESCADORES «SAN JUAN»

