



**FARNET TRANSNATIONAL SEMINAR FOR FLAGS
WEIDEN, GERMANY 20 – 22 NOVEMBER 2017**
Integrating aquaculture within local communities

Biodegradable meshes for mussel cultivation

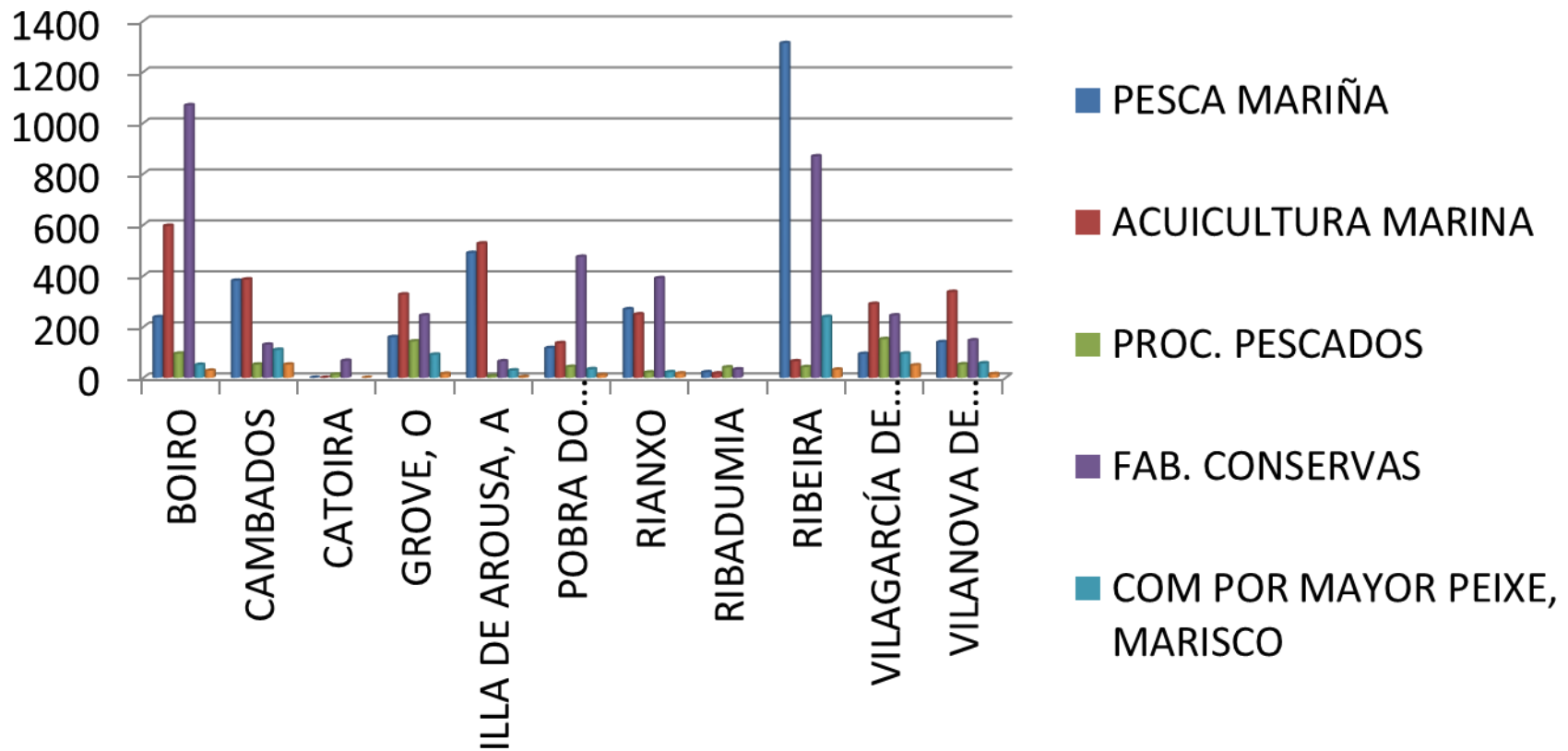
FLAG RÍA DE AROUSA
Rosa Carballo Martínez

CONTEXT



CONTEXT

RÍA DE AROUSA FLAG



CONTEXT

Characteristics of the estuaries where mussel farming takes place

RÍA	VIGO	PONTEVEDRA	AROUSA	MUROS - NOIA	AREAS - BETANZOS
Longitude Km	33	23	26	12	19
Surface Km	175	145	230	120	72
Volume m ³	3.100	3.240	4.300	2.700	750
Maximum Depth m	42	40	65	46	40

CONTEXT

Distribution of mussel troughs along the estuary

RÍA	POLÍGONOS DE MEJILLÓN	PORCENTAJE DE BATEAS	Nº DE BATEAS
ARES – BETANZOS	2	2,09%	103
MUROS – NOIA	3	3,54%	118
AROUSA	22	68,68%	2.292
PONTEVEDRA	8	10,37%	346
VIGO	12	14,32%	478
TOTAL	47	100%	3.337



CONTEXT

Project Promotor: Ecoplax Barbanza S.L.

Location: Puebla del Caramiñal

Productive project

Timeframe: 2016

Total investment: € 51 500

Funding: € 25750



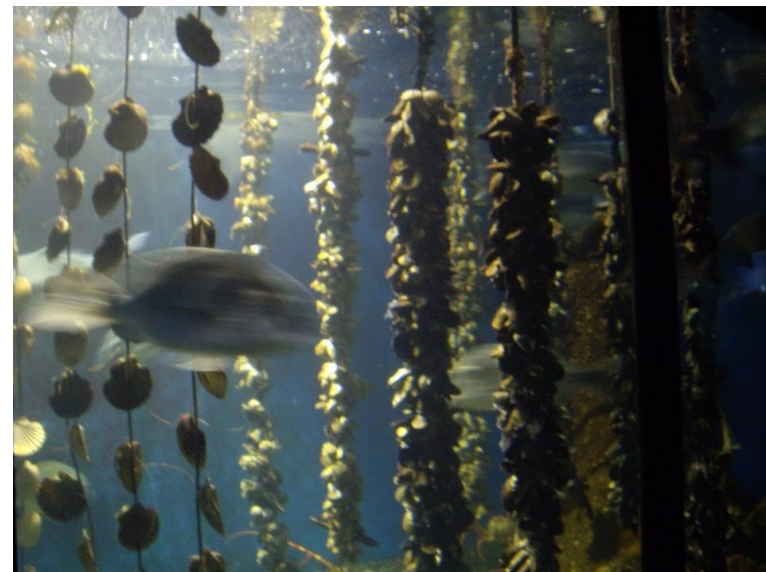
CONTEXT

Local Development Strategy of the RÍA DE AROSA FLAG

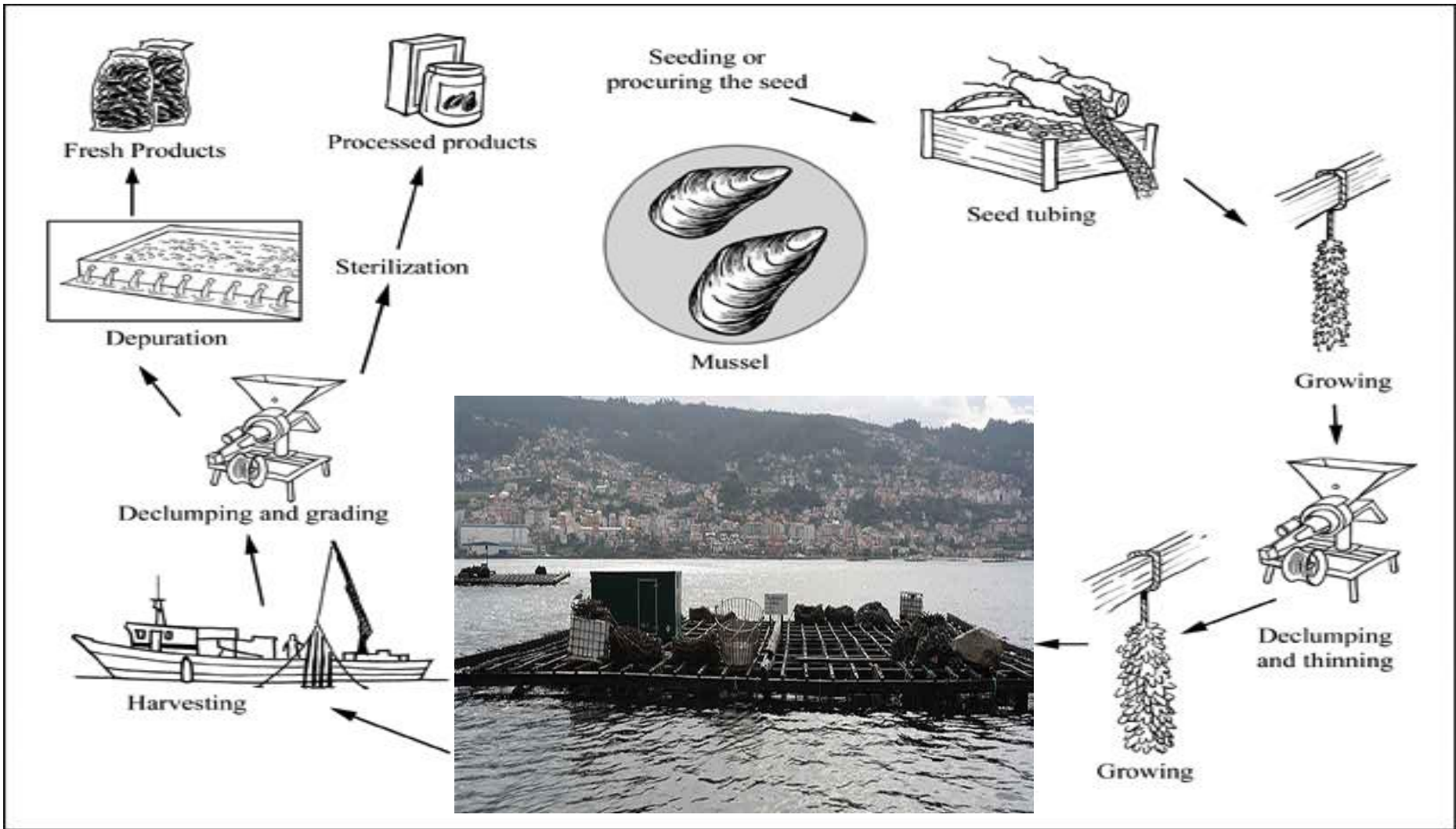
- Improve the competitiveness of the sector
- Innovation: Research & Development

Jobs created and maintained

Employees	Men		Women		No. of people with relatives within the fishing sector
	Nº	FTE	Nº	FTE	
	10	10	6	6	13



METHODOLOGY



CONTEXT & PARTNERS

Premise:

Colaboration between Ecoplax Barbanza S.L. and R&D projects:

- Use of smart polymers
(University of La Coruña)
- ECOBIONET: Biodegradable Mesh
(Companies around Europe)



Challenges:

- Predatory fish

(Gilt-head bream, White seabream, etc.)

- Eating the mussels from the ropes.
- Mussels troughs without production.
- Important economic loss for the mussels cultivation



METHODOLOGY

Activities:

- Development of a protective mesh made with biodegradable polymers, respectful with the environment.
- Foster the Ecological Mussel: Bio-polymers that comply with the legislation of the Regulatory Council of Ecological Agriculture of Galicia (CREAGA).



European Certification of Ecological Mussel

Equipment:

Two machines to make anti-predator and biodegradable protective mesh

RESULTS

- Solve an important issue for the local sector
- Improve the environmental impact of manufactured products
- Open a new production line in the company that consolidates employment
- Promote the commercialization of ecological mussels



Thank you

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