Knowledge transfer workshops – Atlantic halibut
Hjelmeland, 11-12 September 2018

DIVERSIFY-Exploring the biological and socioeconomic potential of new/emerging fish species for the expansion of the European aquaculture industry

DIVERSIFY
New species for EU aquaculture

Co-funded by the Seventh Framework Programme of the European Union

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New species for EU aquaculture

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ΕΛΚΕΘΕ

37 partners:

20 Research/Universities
9 Small Medium Enterprises
2 Large companies
5 Professional associations
1 NGO

- Enhancing the EU aquaculture through species diversification

2013-2018
11,8 million €

Problem with Mediterranean species



- Small (plate size), difficult to prepare, w/bones
- Consumers prefer fillets, steaks, ready-to-cook
- Growing fish larger is limited / inefficient (>3 y!)



Choice of new/emerging species

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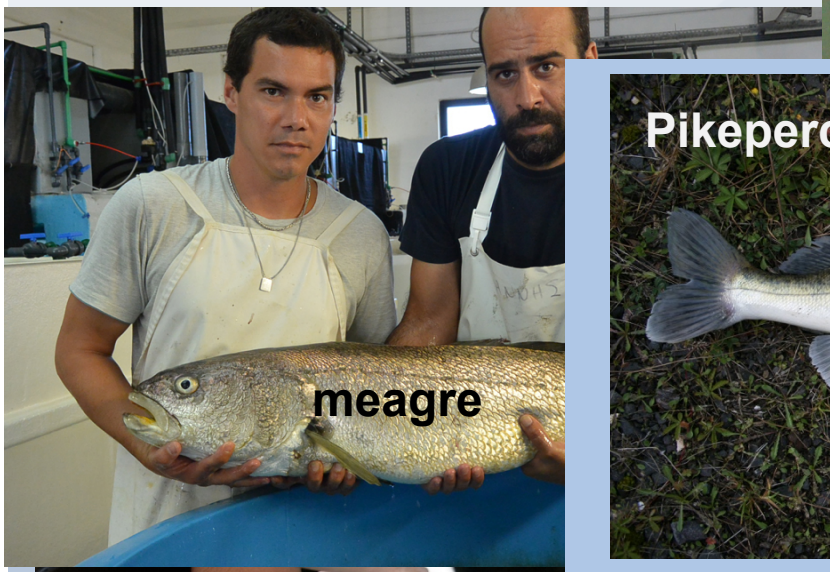
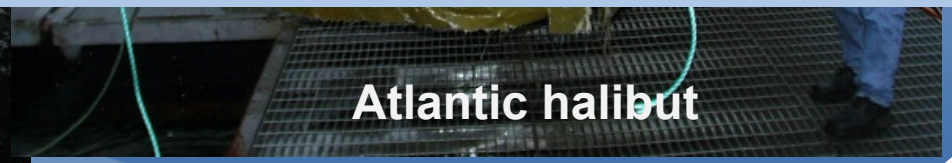


grey mullet
(omnivorous, euryhaline)



Bottlenecks of the six species

- **meagre** (*limited genetic variation, nutrition, health*)

- **greater amberjack** (*reproduction, juvenile production, parasites*)

- **wreckfish** (broostock availability, *reproduction, juvenile production*)

- **Atlantic halibut** (*reproduction, juvenile production, health*)

- **grey mullet** (*reproduction, larval rearing, nutrition*)

- **pikeperch** (*juvenile production*)

Socioeconomics bottlenecks

- perception of aquaculture products
- market demand, buyer preferences
- new product development, value adding
- market development

Meagre

-results

- Genetic characterization of existing broodstocks in Europe, genetic linkage map and QTL analysis
- Development of methods for selective breeding (*in vitro* fertilization, paired spawning)
- Feeding behaviour to improve grow-out in cages
- Systemic granulomatosis and its relation to nutrition, immune system characterization

Greater amberjack

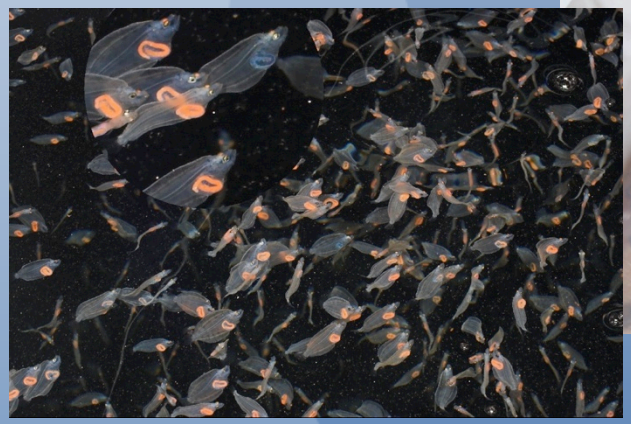
-results

- Development of broodstock management and spawning induction methods, first spawning of F1 stocks
- Larval rearing methods and production of juveniles
- First commercial on growing trials in sea cages
- Health management (parasites) and immune system characterization

Atlantic halibut

-objectives

- Optimize ovulation kinetics and stripping
- Larval rearing using ongrown *Artemia*, early weaning and improvement of juvenile quality
- Production of VNN capsid protein for vaccine development



Socioeconomics

-results

- Identification of consumer segments for the candidate fish species
- Organoleptic characterization
- Production of ideas and value-added products, and testing them with consumers
- On line supermarket trials

Dissemination - www.diversifyfish.eu

Access to

- Presentations from all annual meetings
- Scientific articles
- Technical Manuals (species specific)
- Presentations from this workshop

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