





Knowledge transfer workshops – grey mullet Bari, 14 May 2018

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



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



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37 partners:

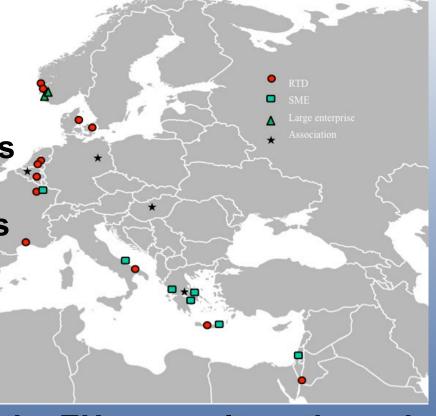
20 Research/Universities

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)







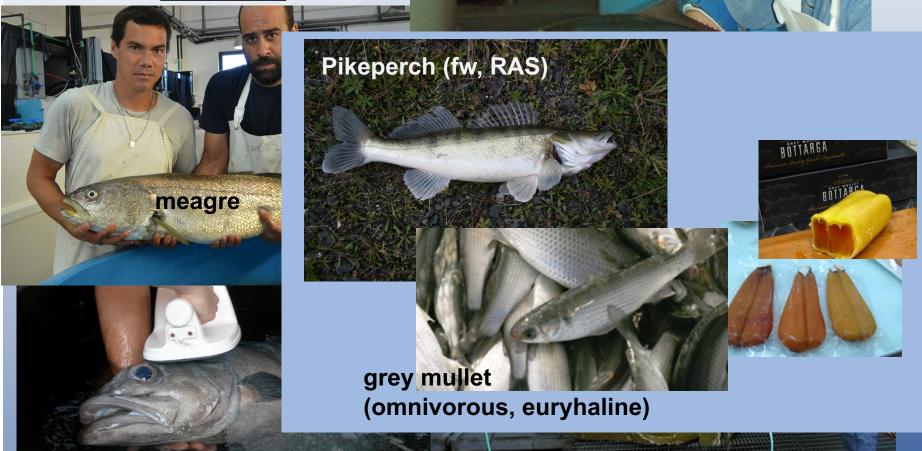
Choice of new/emerging species







greater amberjack

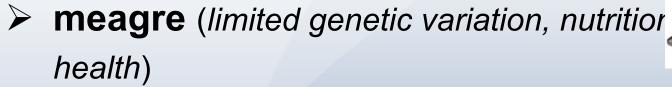


wreckfish

Atlantic halibut

Bottlenecks of the six species







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 -



- 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





- 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



Pikeperch





- Genetic variability of cultured broodstocks and comparison with wild populations for future breeding selection programs
- ➤ Effects of various environmental factors (light intensity, water renewal rate, water flow direction and tank cleaning timing) on larval rearing of pikeperch
- Behaviour traits during early development



Atlantic halibut





- 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



Wreckfish





- Reproductive cycle in captivity
- Induction of spawning (tank and strip spawning) and spontaneous spawning
- Development of broodstock diet
- Larval rearing (still no success past 35 dph)





Grey mullet





- > Development of hormonal therapies to enhance gametogenesis
- > Induction of spawning
- Environmental and nutritional aspects of larval rearing, weaning to herbivorous diet



Socioeconomics



- 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

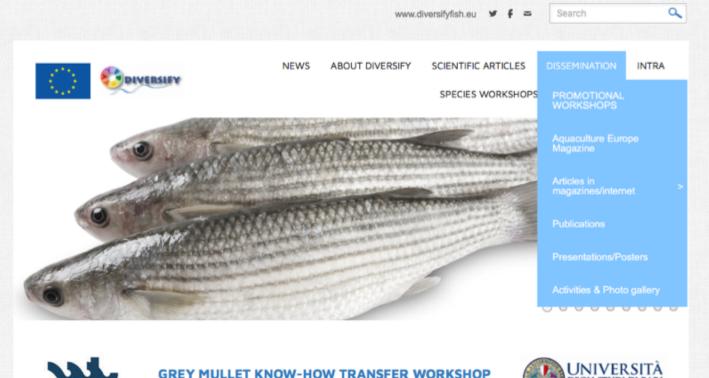






Dissemination - www.diversifyfish.eu







The grey mullet (Mugil cephali year project to advance the know

Access to

14TH MAY 2018, BARI, ITALY

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







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