

AT A GLANCE

TITLE:
Tools for Assessment and Planning of
Aquaculture Sustainability

CONSORTIUM:
A multidisciplinary consortium
of 15 partners

COORDINATOR:
The University of Stirling , United Kingdom

PROGRAMME:
H2020-SFS-2015-2

DURATION:
March 2016- February 2020

TOTAL COST:
€6,918,512.50

EU CONTRIBUTION:
€6,918,512.50



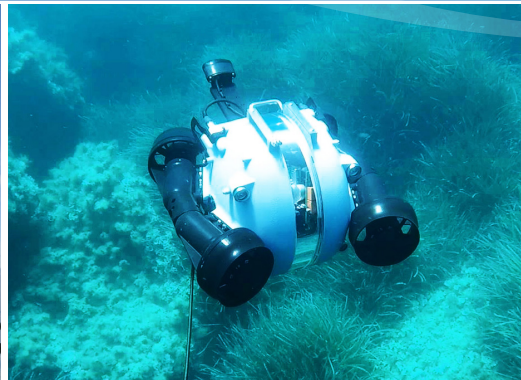
*Consolidating the
environmental sustainability
of European aquaculture*

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 678396



TAPAS PARTNERS

- 1 THE UNIVERSITY OF STIRLING (United Kingdom)
- 2 NORSK INSTITUTT FOR VANNFORSKNING (Norway)
- 3 DHI (Denmark)
- 4 WATER INSIGHT BV (Netherlands)
- 5 STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK (Netherlands)
- 6 PLYMOUTH MARINE LABORATORY (United Kingdom)
- 7 UNIVERSIDAD DE MURCIA (Spain)
- 8 UNIVERSITE DE NANTES (France)
- 9 HELLENIC CENTRE FOR MARINE RESEARCH (Greece)
- 10 SZENT ISTVAN UNIVERSITY (Hungary)
- 11 AQUABIOTECH LIMITED (Malta)
- 12 MARINE INSTITUTE (Ireland)
- 13 KOZEP ES KELET EUROPAI AKVAKULTURAKOZPONTOK EGYESULET (Hungary)
- 14 AQUACULTURE STEWARDSHIP COUNCIL (United Kingdom)
- 15 FUNDACION IMDEA AGUA (Spain)



TAPAS

The four year Horizon2020 TAPAS research project, which started in March 2016, aims to consolidate the environmental sustainability of European aquaculture by developing tools, approaches and frameworks to support EU Member States in establishing a coherent and efficient regulatory framework, implementing the Strategic Guidelines for the sustainable development of European aquaculture and delivering a technology and decision framework for sustainable growth.

- Improved sustainability
- Reduced licensing time
- Enhanced public image
- Increased production
- Removed "red tape"



Objectives of TAPAS

- Identify sustainability requirements set by existing regulatory and licensing approaches, and identify possible bottlenecks hampering cost-efficient practices
- Review the practical use of existing tools for carrying capacity assessment, EIA, and management to identify the utility of existing sustainability tools and the need for new decision supporting methods and frameworks
- Develop new models and decision systems appropriate for farm, water body and regional scale studies as well as for polyculture and integrated systems
- Assess the environmental services provided by European aquaculture through an ecosystems services
- Evaluate existing and develop new *in situ* real time surveillance technologies for physical, ecological and chemical water quality parameters
- Project outputs will be incorporated into a TAPAS Aquaculture Sustainability Toolbox, based on existing and newly developed models and approaches

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TYPE:

Research SME

LOCATION:

Mosta, MALTA G. C.

CAPABILITIES:

R&D / Consultancy / Engineering

EXPERTISE:

Aquaculture / Marine Research
Blue Growth / Aquatic Environment



Who we Are

AquaBioTech Group is an international aquaculture and fisheries consulting company strategically located in the Mediterranean, on the island of Malta. It operates globally, with clients and projects in over fifty-five countries. Staff are recruited from across the globe, enabling communication with clients in thirteen languages.

AquaBioTech Group undertakes a variety of aquaculture, fisheries, marine surveying, aquatic environmental, financial, and technical projects, performed with its selected, worldwide partners.

AquaBioTech Group has an established, global reputation in designing and installing recirculation aquaculture systems (RAS)



Our role in the TAPAS project

AquaBioTech Group is the leader of the project dissemination and outreach activities but also participates in the core research tasks of TAPAS as follows:

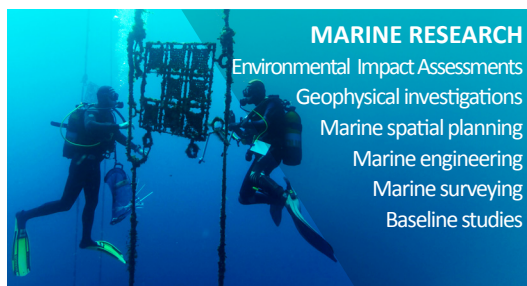
- Undergo requirements analysis and stakeholder integration in Malta and in the Mediterranean
- Evaluate and improve existing farm-scale modelling tools for the evaluation of the eco-toxicological risks generated by antifouling agents, veterinary medicines and potentially toxic compounds
- Assess the combined environmental and social impacts including ecosystem services (ES) of recirculating aquaculture systems (RAS) and Mediterranean marine aquaculture
- Identify management tools that could provide incentives to reduce negative impacts of aquaculture production
- Participate in development of near-field models for regulation and site selection of RAS and cage aquaculture
- Manage the compilation of available datasets and contribute to the development of new monitoring technologies
- Test and develop training materials for the new aquaculture management toolbox developed in TAPAS

Our Research Activities



AQUACULTURE R&D

Fish & shellfish hatchery technology
Health & disease prevention
Nutraceutical development
new species development
Aquatic nutrition research
Production techniques



MARINE RESEARCH

Environmental Impact Assessments
Geophysical investigations
Marine spatial planning
Marine engineering
Marine surveying
Baseline studies



WATER TECHNOLOGIES R&D

Recirculation Aquaculture Systems
Aquaponics / hydroponics
Wastewater treatment
Energy efficiency
Sustainability
Innovation

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