

AT A GLANCE

TITLE:

Intelligent Fish feeding through Integration of ENabling technologies and Circular principle

CONSORTIUM:

A multidisciplinary consortium of 16 partners

COORDINATOR:

The AquaBioTech Group, Malta

PROGRAMME:

H2020 - BG - 2018 - 1

DURATION:

Nov.2018 - Oct.2022

TOTAL COST:

€ 7,131,140

EU CONTRIBUTION:

€ 6,032,734



Intelligent Fish feeding through
Integration of Enabling technologies
and Circular principle

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 818036.



IFISHIENCI PARTNERS

- | | |
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| <ul style="list-style-type: none"> 1 AQUABIOTECH GROUP (MALTA) 2 NORWEGIAN RESEARCH CENTRE AS (NORWAY) 3 COVARTEC AS (NORWAY) 4 OXYGUARD INTERNATIONAL AS (DENMARK) 5 SUSTAINABLE INNOVATIONS EUROPE SL (SPAIN) 6 HELLENIC CENTRE FOR MARINE RESEARCH (GREECE) 7 SZENT ISTVAN UNIVERSITY (HUNGARY) 8 VEREIN ZUR FORDERUNG DES TECHNOLOGIETRANSFERS AN DER HOCHSCHULE BREMERHAVEN EV (GERMANY) | <ul style="list-style-type: none"> 9 ACNCONDICIONAMIENTO TARRASENSE ASSOCIACION (SPAIN) 10 EASY GLOBAL MARKET SAS (FRANCE) 11 THE SEAFOOD INNOVATION CLUSTER AS (NORWAY) 12 BIOCEANOR (FRANCE) 13 UNIVERSITETET I BERGEN (NORWAY) 14 ALLER AQUA RESEARCH GMBH (GERMANY) 15 VITAFORT ZRT (HUNGARY) 16 GYORI ELORE HALASZATI TERMELŐSZÖVETKEZET (HUNGARY) |
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iFishIENCI

iFishIENCI is an EU Horizon 2020 project bringing together 16 partners in a transdisciplinary effort towards making genuine improvements to aquaculture management and practices. The overall goal of the iFishIENCI project is to provide new intelligent monitoring and feeding technologies to support ambitious, but sustainable growth for the European aquaculture industry.

- Integration of Artificial Intelligence (AI) and Internet of Things (IoT) for aquaculture production
- Circular economy approach
- Enhanced eco-efficiency



Objectives of iFishIENCI

The Objectives of the iFishIENCI project is to create the following technologies and systems:

- **Fish-Talk-To-Me:** a product enabling continuous, automated monitoring of fish behaviour, health, physiology and welfare. Fish-Talk-to-Me is a combination of technologies and data processing systems to be integrated with online monitoring systems
- **iBOSS:** a flexible, open, 'Biology Online Steering System' monitoring all aspects of fish and their environment critical for healthy, sustainable farmed fish. It will maximise feed utilization and minimise environmental impacts through smart feeding
- **Smart RAS:** development of a unique European research, innovation and piloting capacity, based upon Recirculating Aquaculture Systems fully equipped with iBOSS technology
- **Waste2Value:** a set of streamlined value chain processes for optimal valorisation of waste biomass from different aquaculture production systems

AT A GLANCE

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.



Our role in the iFishIENCi project

AquaBioTech Group's main tasks with the iFishIENCi project includes:

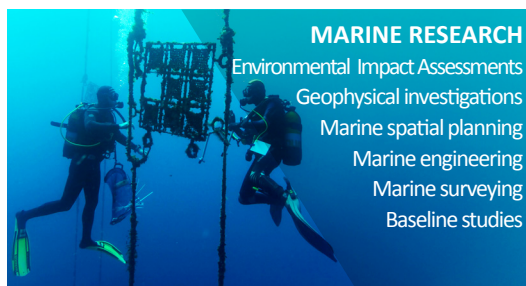
- Overall coordinator of iFishIENCi
- Testing of new iBOSS and Fish-Talk-to-Me technology in commercial production systems
- Leader of planning and design process for experiments and trials
- Adaption of new technologies to AquaBioTech Group's Recirculation Aquaculture Systems containing different fish species
- Life Cycle Assessment of novel feeds and commercial systems fitted with iFishIENCi technology
- Use of Life Cycle Costing techniques to explore product cost-effectiveness
- Communication and dissemination project activities and outcomes

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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