Portfolio of Outputs and Commercialisation Needs

Optimizing land-based fish production in next generation digital recirculation

http://www.digiras.org/

Project consortium includes 2 large, 1 medium, 1 small and 1 micro sized enterprises:

Outputs

Microbial water quality analysis

TRL 6

Procedures for mapping & absolute quantification of priority microbes in fish & production environments using DNA/RNA-based technologies. Potential of machine learning supported NGS data processing for developing early warning tool demonstrated.

H2S- Sensor

TRL 4

Cost-effective hydrogen sulfide sensor prototype with high sensitivity developed.

Covalent Organic Framework Based Absorbent

TRL 3

Novel approach for absorption of off-flavour compounds demonstrated

Fish Welfare Monitoring System

TRL 6

Novel fish welfare monitoring technology based on camera systems (under & over water) and machine learning assisted fish behavious analysis established.

Microalgae Bioreactor

TRL 3

Use of microalgae for recovering nutrients and production of fatty acid rich biomass from RAS water demonstrated.

Commercialisation Needs

- More R&D for process optimisation and technology development
- Further development and testing of prototypes
- Extended testing and optimisation in commercial systems
- Licensing and spin-off
- Marketing and promotion