



SmartRAS

A unique European research, innovation and piloting capacity, based on Recirculating Aquaculture Systems. New technology solutions will be integrated in 3 areas: Water treatment technology; Feeding technology using fish behaviour monitoring; and Improved use of sensor data by iBOSS algorithms.

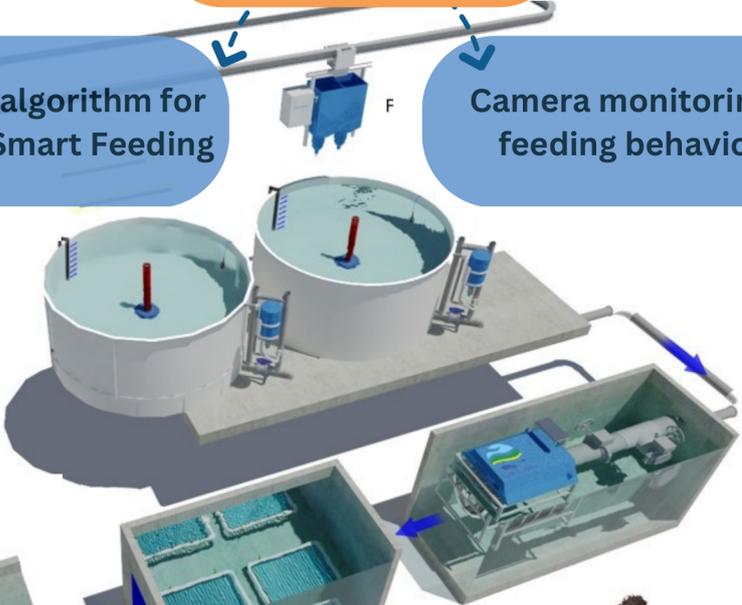
FishMET Digital twin

Controlling algorithm for automated Smart Feeding

Camera monitoring of feeding behaviour



Water treatment innovation



Improved use of discharge and valorisation of waste streams

New and legacy sensors

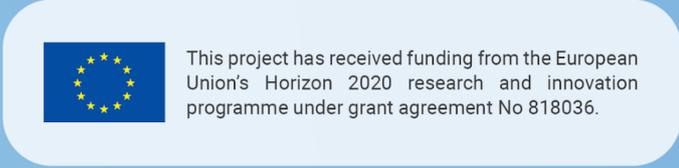
Waste2Value

iBoss Cloud
Smart Functions:

- AI analysis of continuous RAS data
- Predictive water quality
- Decision support for producer

Input from existing monitoring system data

Intelligent Fish feeding through Integration of ENabling technologies and Circular principles
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RAS Producers

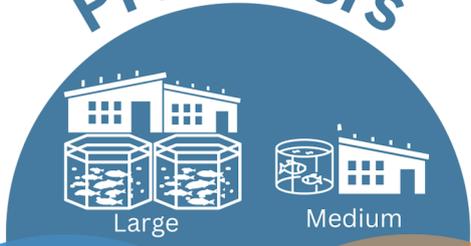
Transparent, easy to manage solutions for RAS units in the production structure

Fine tune RAS to reduce production costs

Demonstrate sustainability/circularity of new operations

Lower investment risk

New investment



Aquaculture Research

Non-profits: higher quality research and training

Commercial: more data for product development with lower R&D costs



SmartRAS Demonstration



SmartRAS will be demonstrated in Malta, integrating iBOSS technologies into RAS for specially selected hybrid catfish rearing on novel feeds, and demonstrating its applicability for improving the nursery success for salmon.

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