

2025

SMARTWATER PLANET

GLOBAL TECHNOLOGY COMPANY FOR AQUACULTURE



SMARTWATER PLANET

<https://smartwaterplanet.com>

Smartwater is a technology company specialising in the development of advanced solutions for water quality management and optimisation. With an approach based on the integration of Artificial Intelligence (AI), Internet of Things (IoT) and Big Data, the company offers products and platforms that improve efficiency, sustainability and profitability in aquaculture production and water resource management



OUR COMMITMENT

<https://smartwaterplanet.com>

Smartwater Planet is aligned with the objectives of the European Green Pact and the Farm2Fork and Circular Economy strategies, promoting innovative solutions that contribute to environmental sustainability and efficiency in the use of water resources.

Thanks to its focus on digitisation, artificial intelligence and process optimisation, Smartwater Planet is consolidating its position as a benchmark in the technological transformation of aquaculture and water management.



OUR STRATEGY

<https://smartwaterplanet.com>

In a world where water quality and availability are critical challenges, Smartwater Planet is positioned as a key player in the transformation of the aquaculture and water management sectors.

Our mission is to provide advanced technological solutions that not only optimise aquaculture production, but also ensure an efficient and sustainable use of water resources, for which we have developed PRODUCTS integrating an IT suite that combines advanced detection of water quality (MEDUSA™), with a production management system (SMARTWATER CLOUD) enhanced with machine learning capabilities.



PRODUCTS

MEDUSA

MEDUSA is a multifunctional, autonomous and rechargeable IoT device which measures continuously and in real time the physico-chemical parameters of water.

There are options for 7 different parameters, with a current configuration of 6 probes on the platform:
Turbidity, Conductivity, ORP, NH4, pH, O2 and Temperature.

Autonomy

It is designed with the highest level of storage efficiency and power consumption, allowing up to 2 months of autonomy.

Housing

The housing is made of a material resistant to fresh and salt water..

Conectiviity

Data transmission via 2G, 3G and 4G (adaptable to other communication protocols such as wifi or LoRaWAN).

Virtual Sensors

Thanks to MEDUSA's AI it is possible to predict the parameters of water quality within 3 hours.

Sensors

It combines electrochemical sensors and highly accurate digital sensors.



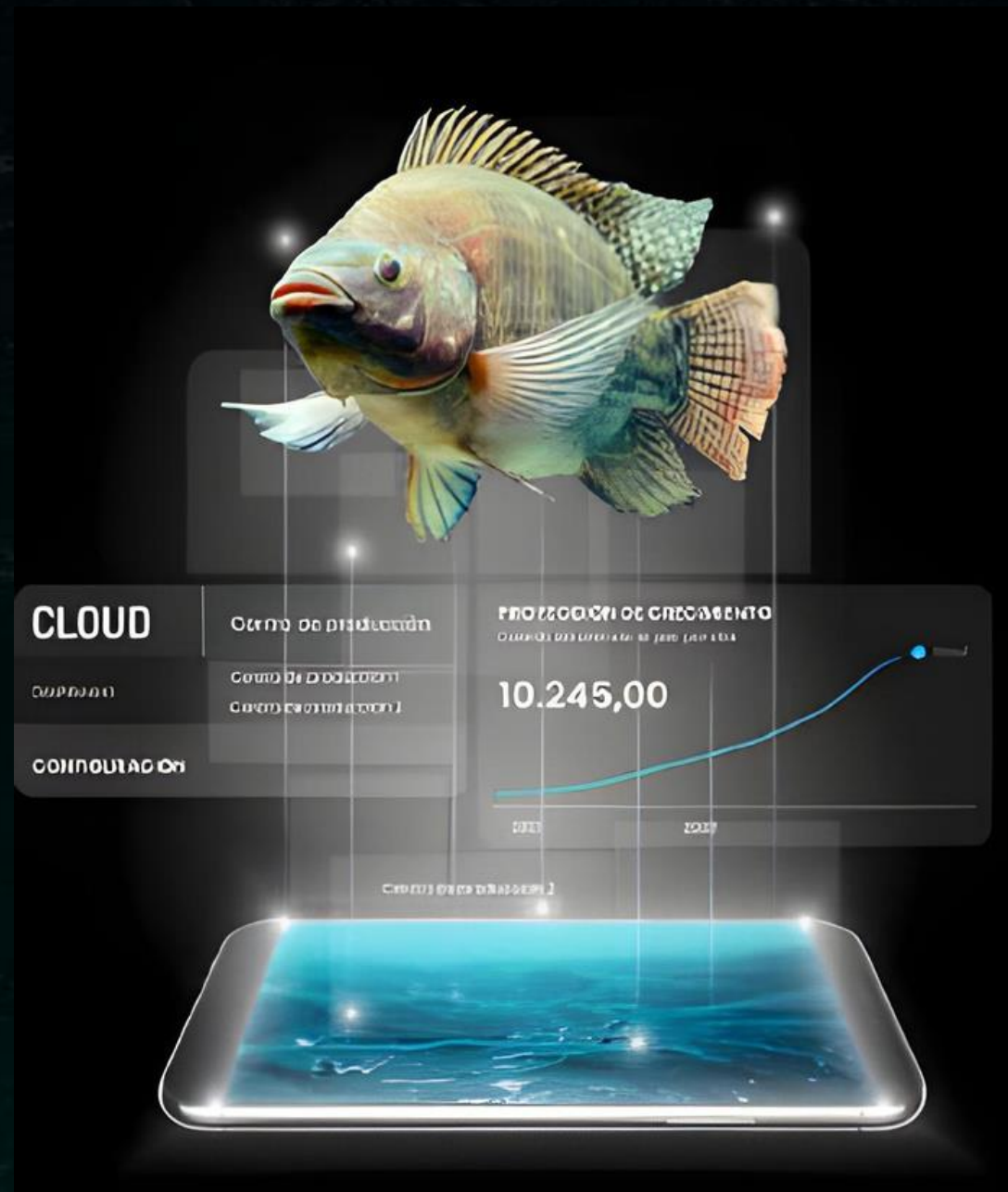
<https://smartwaterplanet.com/medusa/>



PRODUCTS

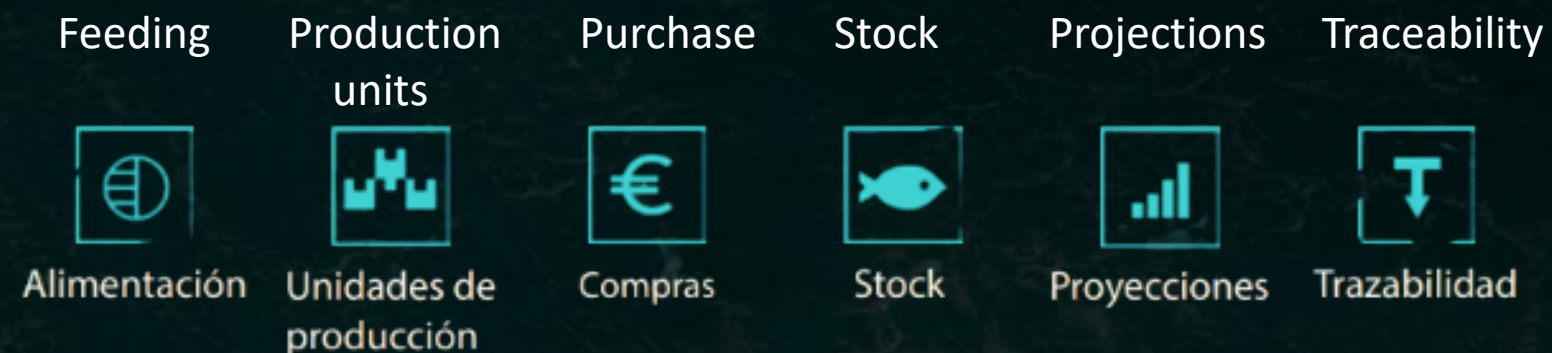
<https://smartwaterplanet.com/cloud/>

SMARTWATER CLOUD



Smartwater Cloud is a suite to optimize fish farms' production, sustainability and business potential, enhanced with machine learning capabilities (AI-based software and intelligent fish models, and active learning), developed in close collaboration with fish farms to ensure that the user's requirements are met.

Smartwater Cloud facilitates the management of your production unit, simplifying and streamlining all processes.



PROJECTS

SMARTWATER BENCHMARKING

<https://smartwaterplanet.com/cloud/>

International platform of benchmarking for the
aquaculture sector and for any farmed species

The beneficiaries of this platform are:

The producers, who demand benchmarking information as the sector matures.

Public institutions and agencies, such as the FAO, which has already shown interest in this type of utilities due to the real proximity of the data.

Other stakeholders.

<https://smartwaterplanet.com/cloud/>

International benchmarking platform for the aquaculture sector and for any farmed species.



PROJECTS

<https://pathogeltrap.eu/>



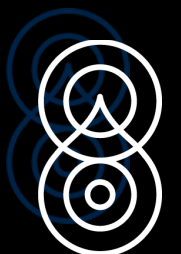
Project budget: €2,996,437.50

Duration: 2020–2023

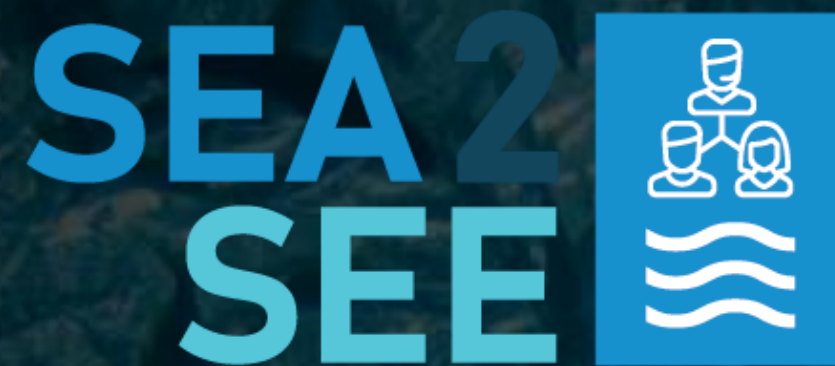
SMARTWATER is the COORDINATOR, providing also its technology to support the testing and assessment of the environmental impact of PathoGelTrap on water quality.

SMARTWATER will commercialise the final results for the industry

PathoGelTrap, a three-year FET Open (Future and Emerging Technologies) project under the European Research and Development Framework Programme Horizon 2020, grant agreement number 899616, proposes a new fish health management model that enables the prevention and control of infectious diseases by selectively blocking pathogens directly in the water, overcoming the current technological paradigm that focuses on disease prevention through the direct action on fish of vaccines or broad-spectrum antibiotics, which alters the environmental microbiota. Furthermore, this technology opens the door to a disruptive pathway for pathogenic disease control in the future.



PROJECTS



PROJECTS PROGRAMME: Horizon Europe (FARM2FORK)

<https://pathogeltrap.eu/>



ACTION TYPE: Innovation Action (IA)

DURATION: July 2022 – June 2026

CONSORTIUM: 14 partners from 6 EU countries

CALL: CL6-2021-FARM2FORK-01

TOPIC: HORIZON-CL6-2021- FARM2FORK-01-10

BUDGET: 5. 418.730 EUR

EU CONTRIBUTION: 4.392.345 EUR

The main objective of Sea2See is to build consumer confidence and acceptance of products from fisheries or aquaculture produced in a sustainable way in Europe. This will be achieved through two types of actions:

Development and demonstration of an innovative end-to-end blockchain-based traceability platform used throughout the seafood value chain;

Implementation of social and sectoral strategies for co-creation, communication and awareness raising on the nutritional benefits of sustainably farmed or produced seafood products.

Sea2See will significantly increase potential consumption as consumers will, in part, be motivated through participatory strategies that show how digital and web-based tools can provide reliable traceability information.

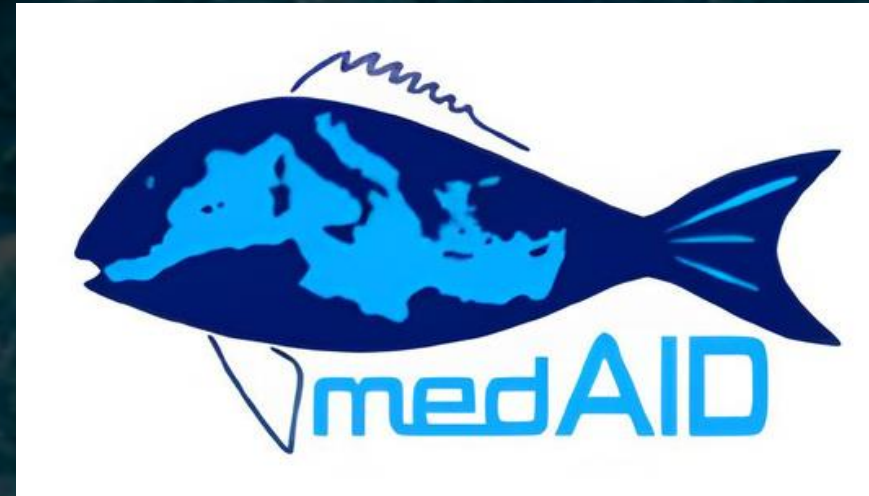
OBJECTIVES

- Develop a co-creation approach to transparency and traceability of sustainable seafood products.
- Leverage a set of educational practices and awareness-raising to increase sustainable consumption.
- Develop a blockchain-based implementation model for the collection of traceability data specific to the fisheries and aquaculture industry.
- Demonstrate the feasibility and advantages of the blockchain model of the Sea2See project
- Develop a standardised Life Cycle Assessment framework to identify the main sources of environmental impact



PROJECTS

<https://pathogeltrap.eu/>

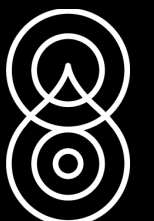


Project budget: 7.000.000 €

Duration: 2017–2021

SMARTWATER is contracted by IRTA to provide its products SMARTWATER BENCHMARKING (sea bass and sea bream) and SMARTWATER CLOUD to the project

MedAID (Integrated Aquaculture Development in the Mediterranean) is a four-year project, funded by the European Union under Horizon 2020, grant agreement number 727315. The objective of MedAID is to increase the overall competitiveness and sustainability of the marine fish farming sector of the Mediterranean, along the entire value chain.



PROJECTS



LAGUNA DI NORA

Project budget: 480.000€

Duration: 2021-2023

LOCATION: Comune di Pula, Cagliari, Sardinia, Italy

SMARTWATER is the **AUTHORISED ECONOMIC OPERATOR** in the **PROJECT**

LAGUNA DI NORA, pre-commercial call for tender for the services of research and development for the realisation of an INNOVATIVE SOLUTION FOR THE MANAGEMENT OF WATER COMMUNITY AND FOR THE MANAGEMENT OF FISH FLOWS", under the funds FESR Sardinia

2014-2020, axis I, action 1.3.1., CUP B74D200000006, CIG 8453205D6E



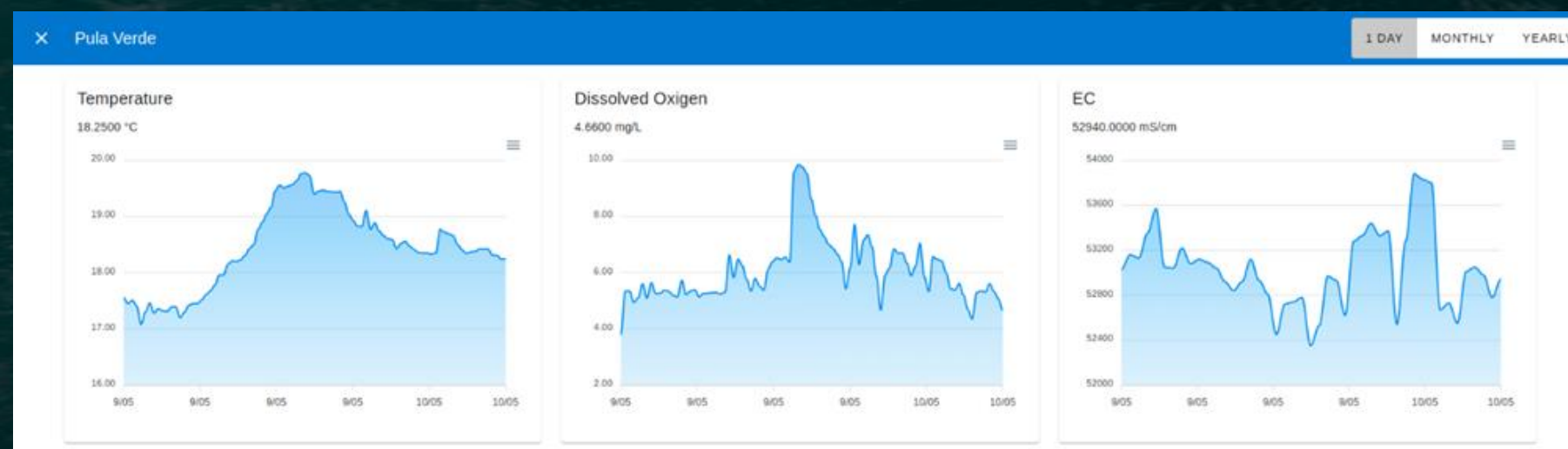
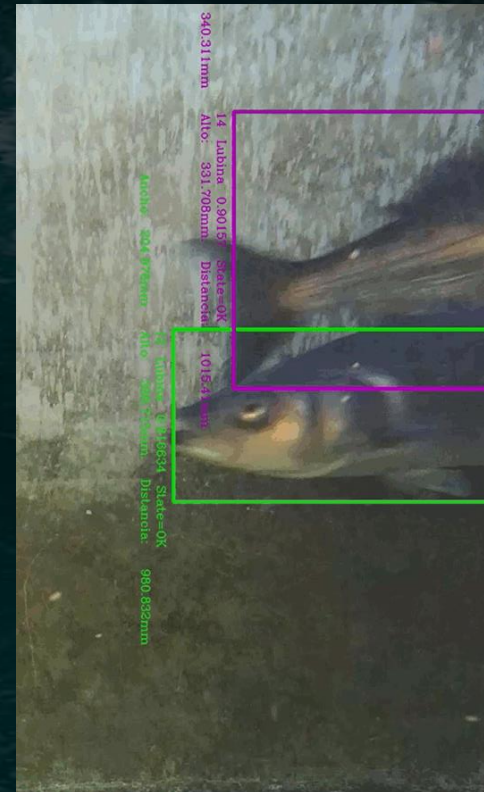
PROJECTS

SMARTWATER PLANET



LAGUNA DI NORA

- Environmental monitoring of a natural marine lagoon
- Continuous IoT monitoring of water quality parameters
- Retrievable historical data for analysis
- Water flow intelligent management
- Actuators: Flood emergency action
- Vision AI, automatic fish species identification and measurement
- Automatic mapping of water level



PROJECTS

LAKE TITICACA

Project budget: 560.000€

Duration: 2019–2029

LOCATION: TITICACA LAKE, ICHU, PUNO

LOCAL PARTNER: DIVERSO MARE PERU S.R.L (SMARTWATER PLANET GROUP)

AUTHORISED MANAGEMENT AREA: 8 HA

To date we have started the administration of four aquaculture concessions located in Lake Titicaca, Province of Puno, to produce Organic Rainbow Trout for the international market.

Estimated production volume: 800 T



CAPACITIES

- Development of applications for water management and aquaculture.
- Design of aquaculture facilities in open systems and RAS systems, for any type of species of commercial interest.
- Development of data capture and assimilation systems for water quality forecasting and aquaculture production, applying AI for the creation of early warning systems.
- Design of optimisation algorithms based on already processed data for the creation of models of different aquatic environments.
- Development of multi-sensor devices for measuring physico-chemical parameters in water. Design of green filters and biofilters.
- Evaluation and diagnosis for the implementation of Global Gap quality systems and EU Ecological Certification of aquaculture facilities.



SMARTWATER PLANET SPAIN

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