# CONSORTIUM

NORCE

a4f algae for future

Algemy

ERANOVA Technology from the sea

ECO IMAGINATION

INESCTEC

eas european aquaculture society

Viva Maris

LEITAT managing technologies

perseus

PEDAL CONSULTING

SEA EIGHT

PESCANOVA GRUPO NUEVA PESCANOVA

sustainn Circular Economy. Sustainable Future.

# FOLLOW US

LINKEDIN

**#innoaqua-project**

TWITTER

**@INNOAQUAproject**

BLUESKY

**@innoaquaproject.bsky.social**

WEBSITE

**www.innoaquaproject.eu**

Funded by the European Union under grant agreement number 101084383. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Research Executive Agency (REA). Neither the European Union nor the granting authority can be held responsible for them.

# INNOAQUA PROJECT

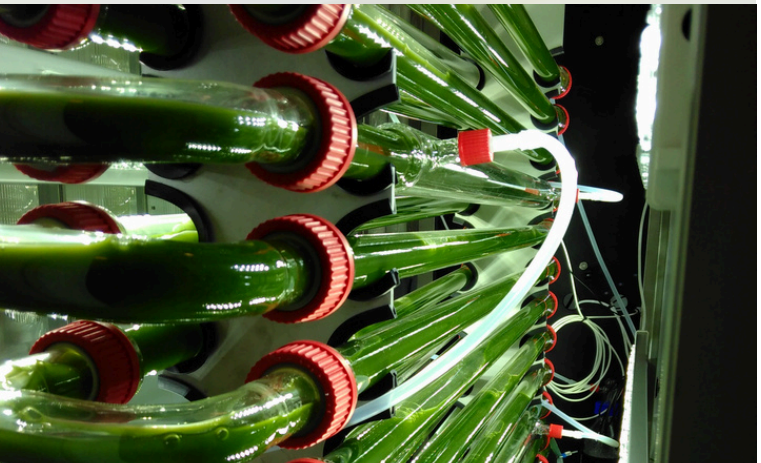
## Sustainable Aquaculture Practices for Innovative Seafood Products

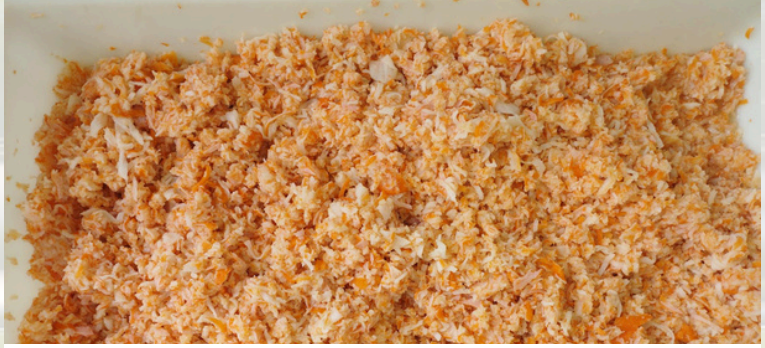
# Integrated Aquaculture Systems

INNOAQUA partners are developing integrated approaches combining aquaculture and algae production.

Research on microalgae-salmon RAS-IMTA systems (Integrated Multi-Trophic Aquaculture) demonstrates how:

- **Nutrients from fish farming can be reused**
- **Microalgae can contribute to simultaneous water treatment and valuable biomass generation**
- **Macroalgae and sole IMTA systems are showing similar promising results**





# From Side Streams to Value

INNOAQUA is advancing innovative solutions to transform aquaculture and fish processing side streams into high-value resources.

Recent developments include:

- **Production of fish protein hydrolysates derived from fish processing by-products**

→ These bioactive compounds are being explored as novel ingredients for seafood product formulation, contributing to more sustainable and circular food systems.

- **Nutrient recovery from aquaculture systems**

→ RAS (Recirculating Aquaculture Systems) sludge is being valorised and reused for algae cultivation, reducing losses while supporting new biomass production.

# Implementation

**NNOAQUA is progressing towards large-scale validation of its solutions.**

DEMO#2 (Portugal) is approaching completion:

- 95% of equipment in place
- 100% of the area capacity in use
- Selected Ulva and Gracilaria strains growing actively
- Integration with sensoring modules and control software is ongoing

This demonstration will:

- Validate technologies in real conditions
- Support scalability of algae-based solutions
- Bridge the gap between research and industrial application