

# Smart resource use in RAS for sustainable and nutritious food.



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TECHNOLOGIJŲ PARKAS



Blue research



University of Gdańsk



Klaipeda University



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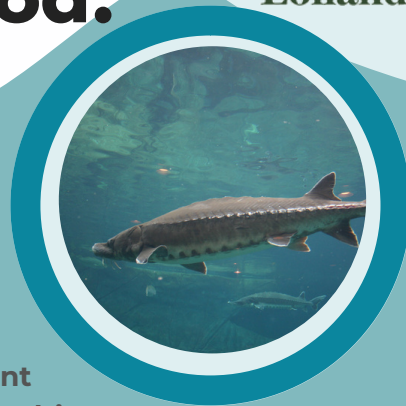


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## TECHNOLOGY TRANSFER FOR THRIVING RECIRCULATING AQUACULTURE SYSTEMS IN THE BALTIC SEA REGION



# 10

Partners

From five different countries in the Baltic Sea Region (LT, DE, DK, PL, EE)

# 04

Pilots

Demonstrating different combinations of RAS and other processes for the efficient resource use

# 14

Associated Organisations

Representing stakeholders from the whole supply chain and the Baltic Sea Region

## CONTACT US



[www.interreg-baltic.eu/project/tetras/](http://www.interreg-baltic.eu/project/tetras/)



[tetras@submariner-network.eu](mailto:tetras@submariner-network.eu)



TETRAS BSR



@TetrasBsr

RAS and industrial symbiosis  
for sustainable  
food production.

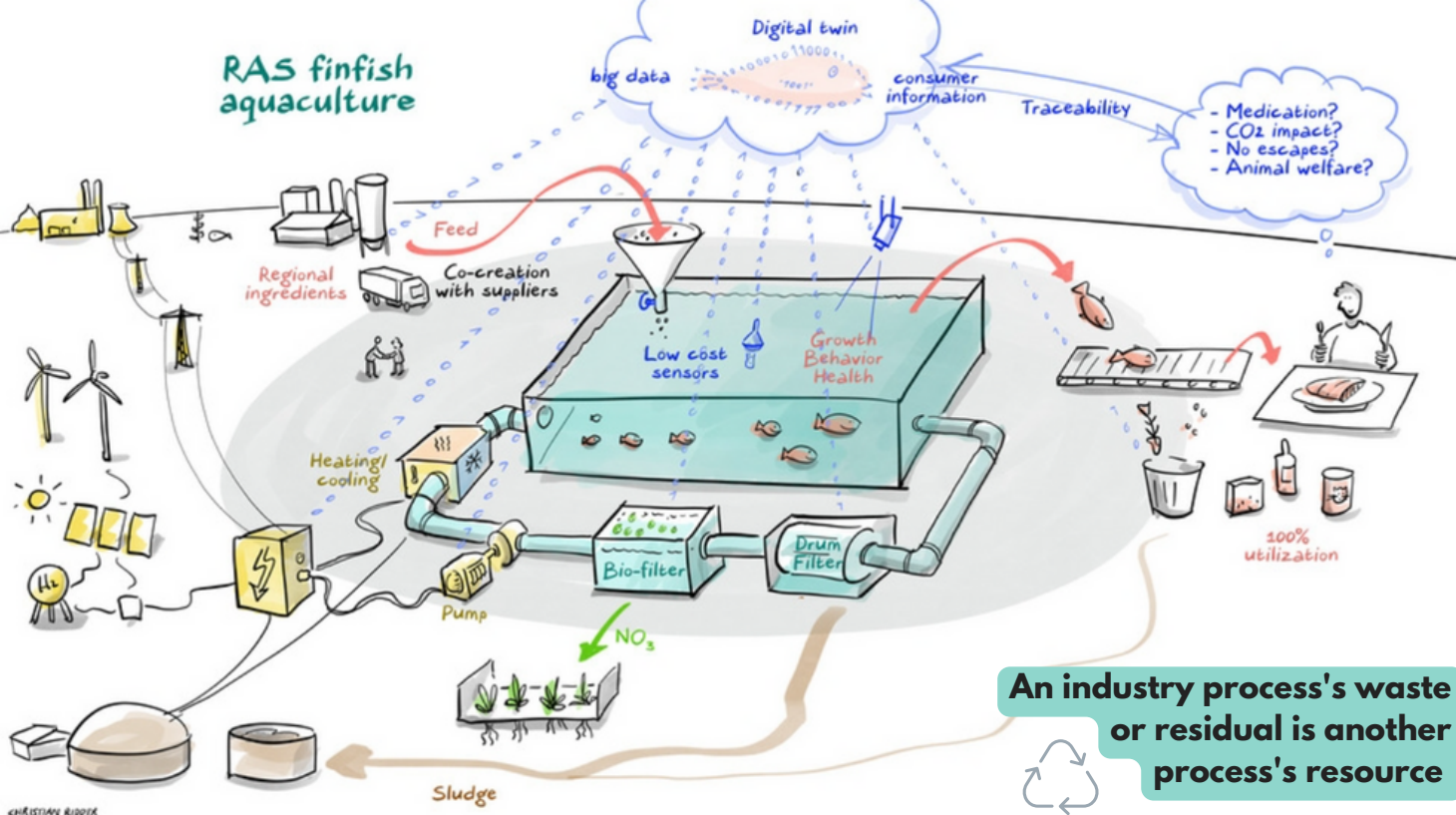
Interreg  
Baltic Sea Region



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BLUE ECONOMY  
TETRAS

## RAS finfish aquaculture



An industry process's waste or residual is another process's resource

# Pilots

- 1 Treatment of RAS water for use as technical water
- 2 Use of geothermal resources for heating and mineralisation of marine/brackish RAS
- 3 Feasibility study on best use of land and resources for a circular agro-industrial park with RAS
- 4 Small-scale RAS for data collection and social awareness

Much of the excess water or energy used in industry is lost to the environment.

**What if we could capture these resources and use them for food production?**

**How can we use water in a smart way to balance industry needs with state-of-the-art food production systems?**

The solution is

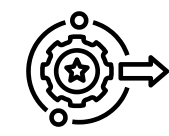
**recirculating aquaculture systems (RAS)**

On their own, RAS are expensive, in terms of investments and operational costs, and also energy-intensive systems.

TETRAS aims to **improve the economic and environmental sustainability** of recirculating aquaculture systems (RAS) by demonstrating how these systems can be placed strategically or **combined with industrial processes to increase resource use efficiency** (i.e. water, energy) while producing affordable and healthy food.

Additionally, TETRAS will develop tools and standards to assess and monitor RAS and promote investment, implementation, and expansion of these food production systems.

The project results will be summarized in a



**Portfolio of solutions with recommendations for decision-makers**

- Investment-ready business cases
- Licensing, permits, and regulatory guidelines
- Communication material for end-users and consumers
- Technical recommendations to future developers and innovators
- Non-technical recommendations for decision-makers on how to best support technology transfer, innovation, and market access to RAS and associated symbiotic concepts.