



NewTechAqua

# NewTechAqua

**(New Technologies, Tools and Strategies for a Sustainable,  
Resilient and Innovative European Aquaculture)**

**Rachid Annane**

**Ministry of Fisheries– ALGERIA**

Online Workshop

Black Sea projects on coastal and maritime tourism, maritime transports, fishery and aquaculture, digitalization

Gaps and opportunities

Friday, 2 October 2020



NewTechAqua project has received funding from the European Union's Horizon 2020 Research and Innovation Programme, under Grant Agreement n. 862658

# About the Project

- Overview

26 partners from 9 Countries (8 Eu and 1 non-Eu)

Duration: 4 years

Start date: 1° of January 2020



Overall budget:  
€ 6 723 843,50

EU contribution  
€ 5 990 172,67



- General objective and aims

NewTechAqua's main goal is to expand and diversify European aquaculture production of **finfish, molluscs and microalgae** by developing and validating technologically-advanced, resilient and sustainable applications.

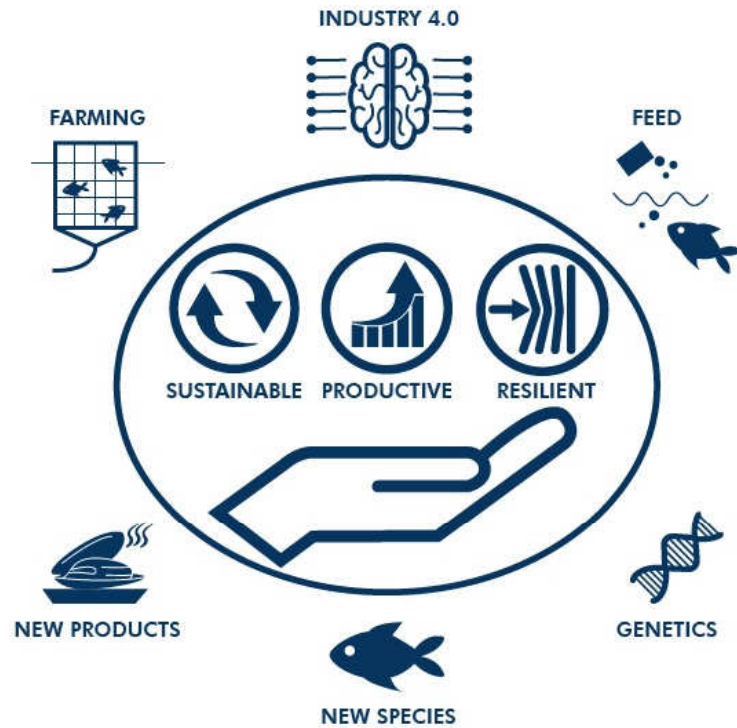
The organizational approach of NewTechAqua is to group the **new applications in 6 different categories: Feed; Industry 4.0; Sustainable farming; Genetics; New species; New products**



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## INTEGRATED SOLUTIONS FOR A NEW AQUACULTURE

### Project Strategy

- 1) **Industrial Innovation** with new applications
- 2) **Solution Integration** to evaluate impacts (economical, social and environmental)
- 3) **Result Capitalization** to exploit the achieved results
- 4) **Education and Outreach** to increase general consciousness of produced innovation



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## Methodology and project approach



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- Three innovative sets of **aquafeeds**, each targeting a specific issue (**pro-health, organic, zero waste**)
- Monitoring systems will aggregate and combine spatiotemporal information (**Big data**) in dynamic complex statistical and **Artificial Intelligence** models for disease prediction and health management
- Welfare indicators, and microbiome analyses (NGS) will be used to evaluate the impact of different rearing systems (**RAS, biofloc technology, aquaponics, ELOXIRAS**) on fish condition.
- **Satellite imagery** by the development and validation of **biosensors** for supporting shellfish industry
- **Innovative breeding programmes** to improve performance, robustness and quality of farmed fish, mollusc and microalgae, using different genomics methods.
- Enhanced know-how of **the reproductive physiology** and on the reproductive dysfunctions of three emerging species: **greater amberjack, meagre and Senegalese sole** under rearing conditions.
- Development of **innovative high-quality seafood** products and of tailored sustainable techniques for **valorisation of by-products** through the preparation of functional ingredients.



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# Thank you for your attention.

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