

NewTechAqua

**New technologies, Tools and Strategies for a Sustainable,
Resilient and Innovative European Aquaculture**

Media Pack



NewTechAqua is a project funded by the European Commission.

This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under Grant Agreement n° 862658.

What is NewTechAqua?



NewTechAqua

6M €

**48
months**

H2020

NewTechAqua' project in a snapshot:

NTA is a **European project** that aims at **expanding and diversifying** European aquaculture production of finfish, molluscs and microalgae by developing and validating **technologically-advances, resilient and sustainable applications.**

→ New Tech Aqua prepares for a future with less pressure on the environment and the chance to rebuild populations of threatened species !



Why is aquaculture important?



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Expansion and Diversification of Europe's aquaculture is vital for our food security:

13 million tonnes of seafood is consumed each year. Currently **only 20%** comes from the **EU**, the rest is imported.

As the global population is expected to grow with 30% by 2050, we face an unprecedented challenge: **food systems need to substantially increase the production of safe and nutritious food**, while reducing the pressure on environmental resources.

Aquaculture is a method to produce more fish with less pressure on the environment than commercial fisheries. Aquaculture does not endanger existing stocks, can help to restore habitat, replenish wild stocks, and rebuild populations of threatened and endangered species.



Is aquaculture sustainable?



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Remaining challenges to a sustainable aquaculture:

- Use sustainable fish feeds
- Increase organic aquaculture production
- Improve available technologies and production systems to increase efficiency
- Increase robustness (disease resistance) and quality of fish and molluscs
- Use fewer chemicals and antibiotics
- Support the diversification of fish species and products

→ NTA develops solutions to overcome those challenges!



How will NTA improve sustainability of aquaculture ?

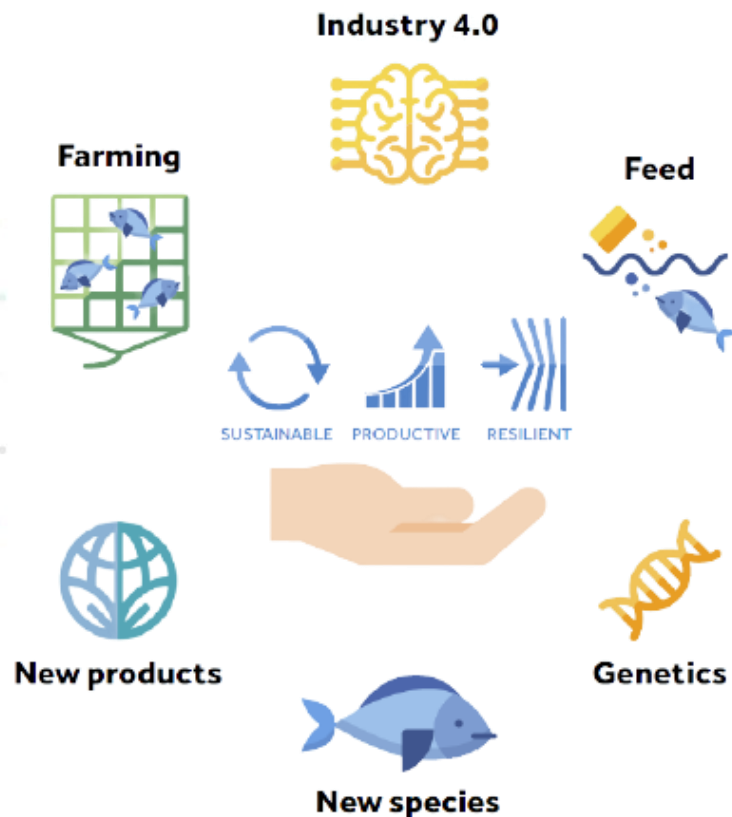


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A comprehensive approach

To increase production while reducing the pressure on the environment, NTA developed a comprehensive strategy :

- Sustainability and circularity
- Fish and molluscs robustness
- Production efficiency
- Species diversification
- Awareness raising



How will NTA improve sustainability of aquaculture ?

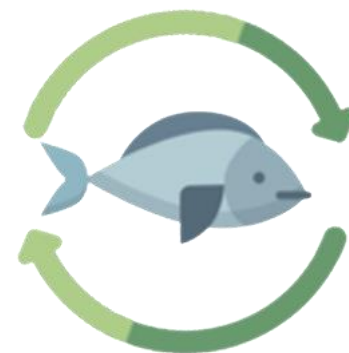


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NTA makes the aquaculture sector more sustainable and circular

To reduce the pressure on the environment, NTA:

- **Reuse fish by-products.** Despite containing proteins and fatty acids with high nutritional values, fish by-products are currently wasted. NTA transforms this valuable resource, creating zero-waste products for human and fish consumption.
- **Reduce waste at the consumption stage** by developing technologies to increase the shelf-life of processed products.
- **Introduce circular technologies to aquaculture practices**, such as aquaponic systems, Biofloc Technologies and Electrochemical filters.



How will NTA improve sustainability of aquaculture ?



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NTA improves fish and mollusc robustness:

To enhance **health and disease resistance** of farmed fish and molluscs:

- NTA's partners experiment **new breeding programs** using innovative selection methods.
- NTA's scientists design **pro-health organic fish feed**, using plant proteins, seaweed and microalgae fitted with a higher concentration of fatty acids thanks to innovative breeding strategies developed within the project.



How will NTA improve sustainability of aquaculture ?

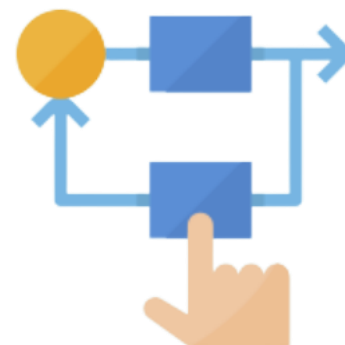


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NTA increases the efficiency of aquaculture production:

European aquafarms have to be economically sustainable. NTA uses **technologies to improve the productivity** of aquaculture production systems with:

- **Real-time management** systems applied in land-based farms. This “precision fish-farming” allows for the eco-intensification of production, through, for instance, the optimization of feeding practices.
- **Artificial intelligence** is used to protect fish from disease outbreaks and parasites.



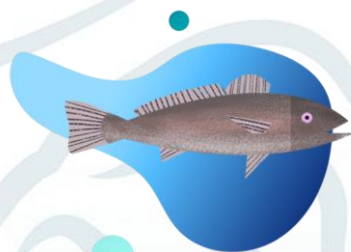
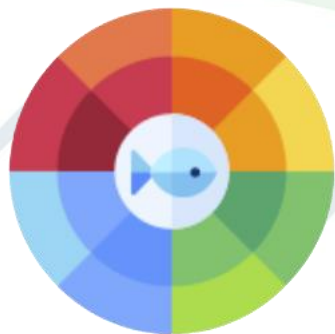
How will NTA improve sustainability of aquaculture ?



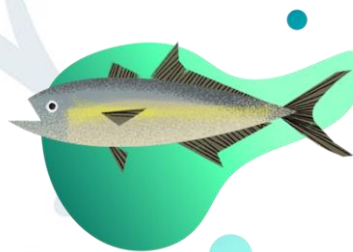
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NTA supports diversification of fish species

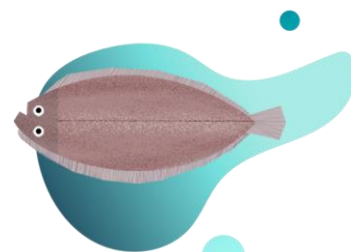
NTA's scientists study the reproductive cycle of emerging fish species to **re-create the best conditions for raising** these new species in aquaculture production systems.



Meagre



Greater Amberjack



Senegalese Sole



How will NTA improve sustainability of aquaculture ?



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NTA raises awareness and train professionals:

To **foster the replication** of those innovative solutions and ensure that scientific and technical know-how generated from the project are effectively transferred to the private and public sector, NTA:

- Produces detailed **exploitation plans**
- Organises **advanced trainings** – events available on the website, as well as the upcoming training kit (2022).
- Concludes studies on consumer acceptance.



Which species are considered in NTA?



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Atlantic Salmon



Rainbow Trout

Seabream



Seabass

Meagre



Senegalese Sole

Greater Amberjack



Grey Mullet

Pacific Oyster



Microalgae



Mussel

**11
species**



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Who is involved in NewTechAqua?



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Project's consortium:

- 26 partners
- 9 EU countries



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Access NTA' resources here:

- [Project's leaflet & logo](#)
- [Promotional video & project's presentation](#)
- [Project's articles](#)
- [Scientific publications](#)
- [Public deliverables](#)

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