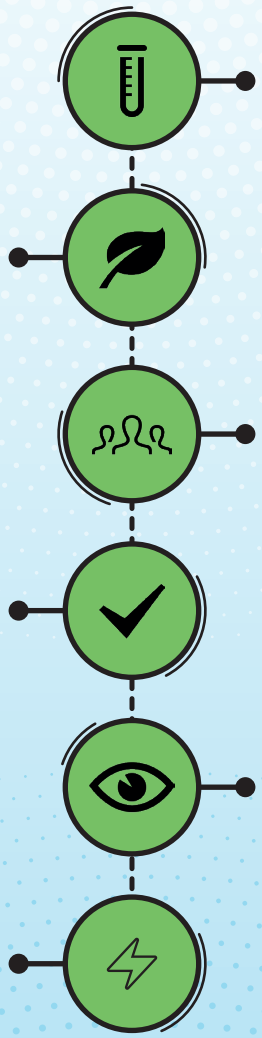
# THE **FUTURE** GROWTH OF ORGANIC AND CONVENTIONAL **EU**ROPEAN **AQUA**CULTURE

## SUSTAINABLE, RESILIENT AND CLIMATE-FRIENDLY



### SUSTAINABLE BREEDING

***How well are current breeding practices and methods equipped to respond to future challenges and novel feed compositions?***

Salmon, seabass, seabream and rainbow trout breeding programmes will be investigated to improve disease resistance, climate resilience and animal welfare.

### INGREDIENTS & FEED

***How can we improve fish feed to ensure optimal nutrition, safety and performance?***

Tailored, low eco-footprint aquafeeds will be fine-tuned to ensure higher fish performance, nutritional quality and safety for conventional and organic aquaculture.

### CONSUMER AND REGULATORY ACTIVITIES

***How can we improve consumer perceptions and knowledge about aquaculture?***

Sustainable growth of the sector will be aided by: 1) communication strategies to raise consumer awareness and acceptance, 2) assessment of challenges associated with space needed for different aquaculture production systems and 3) regulatory framework optimisation.

### QUALITY AND SAFETY OF AQUACULTURE PRODUCTS

***Can we adapt processing and packaging to improve the quality and safety of fish products?***

Minimally processed, optimally packaged fish products will be developed to valorise aquaculture raw materials whilst ensuring quality and safety.

### MONITORING TECHNOLOGIES

***Can we monitor fish patterns and traits to determine key performance indicators?***

A wireless communication system will track the activity and physiological status of the fish remotely, measuring the impact of housing and new diets on fish health and welfare.

### PRODUCTION SYSTEMS

***How can we improve nutrient flows and water quality in different aquaculture systems?***

The sustainability and resilience of different production systems (RAS, IMTA and open cage) will be analysed with an emphasis on production, profitability and environmental impact.

## Expected benefits of **FutureEUAqua**

- New opportunities in value chains, markets, growth and jobs
- Contribute to future EU and international policies on aquaculture
- Improve consumer awareness and social acceptability of aquaculture products
- Boost productivity and resilience of sustainable aquaculture practices
- Increase availability, accessibility and affordability of food and feed while conserving natural resources and contributing to climate change mitigation
- Improve professional skills and competences

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