



# ClimeFish

## Co-creating a Decision Support Framework to ensure Sustainable Fish Production in Europe under Climate Change



Climate change is real, it happens now and it is influencing biological diversity and ecosystems all over the world. How these changes affect food production is essential for planning sustainable growth.

**The overall goal of ClimeFish is to support sustainable fisheries and enable an increase in European aquaculture production to help secure robust employment and long-term development in rural and coastal communities for future generations.**

### How

- Forecast the impact of climate changes upon growth and survival of the most important and the less resilient exploited European fish stocks and aquaculture species in 16 case studies
- Evaluate species within the specific case studies that have the potential for sustainable growth and increased seafood production under the expected climate change scenarios
- Develop early-warning methodologies for the sector, and to identify strategies that mitigate the risks and take benefit from any opportunities resulting from climate change
- Contribute with knowledge that may lead to a more precautionary management of fisheries and aquaculture, secure robust employment and sustainable development of communities
- Develop the ClimeFish Decision Support Framework with stakeholders so that barriers between researchers, authorities, managers, fishers, producers, markets and consumers are reduced

### Outcomes

- Knowledge review of climate changes, fisheries and aquaculture in Europe
- Knowledge gap analyses on the most important and the less resilient fish species in EU
- Novel forecasting models to simulate and analyse changes in distribution and production in the fisheries and aquaculture sectors
- Early warning methodologies and mitigation strategies for identified risks as well as analysis of market and non-market costs and benefits of affected ecosystem services
- The ClimeFish Decision Support Framework including a Decision Support Tool software application based on the simulation and forecasting models
- The ClimeFish Decision Support Framework will be available through the European Committee for Standardization after the project ends to ensure the project results are used.

### Stakeholders

In ClimeFish, scientists and stakeholders work together to make sure experience-based knowledge is integrated in the various scientific analyses. That way we ensure that the knowledge we go by is scientifically acceptable, has policy relevance and has social robustness.

Please contact us at [climefish@uit.no](mailto:climefish@uit.no) if you are interested in joining our stakeholder hub. For more information: [www.climefish.eu](http://www.climefish.eu) or follow us at Twitter: [@ClimeFish](https://twitter.com/ClimeFish)



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