

## Aim

The prime goals of **ClimeFish** are to support sustainable fisheries, enable an increase in European aquaculture production, facilitate employment and regional development through effective forecasting and the development of management tools for adapting fisheries and aquaculture to climate change.

ClimeFish actively engages stakeholders by arranging meetings where analytical and participatory tools are combined to generate new knowledge that has scientific acceptability, policy relevance and social robustness.

ClimeFish liaises with other national and international research projects - such as CERES - that are also highly relevant to the future management of marine resources in Europe within a changing environment, by incorporating socio-economic and legislative issues.

## The Consortium

The ClimeFish consortium includes 17 RRD organisations, 1 SME and 3 international organisations, from 16 countries. To ensure global assessment and impact, ClimeFish has partners from non-European countries: Chile (Veso), Vietnam (NTU) and Canada (MUN).

Strong stakeholder involvement in the project is guaranteed by key international organisations: The International Council for the Exploration of the Sea (ICES), the Federation of European Aquaculture Producers (FEAP) and the Food and Agriculture Organization of the United Nations (FAO).



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

[www.climefish.eu](http://www.climefish.eu)

Work programme topic addressed: H2020-BG-02-2015

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Forecasting and anticipating effects of climate change on fisheries and aquaculture.

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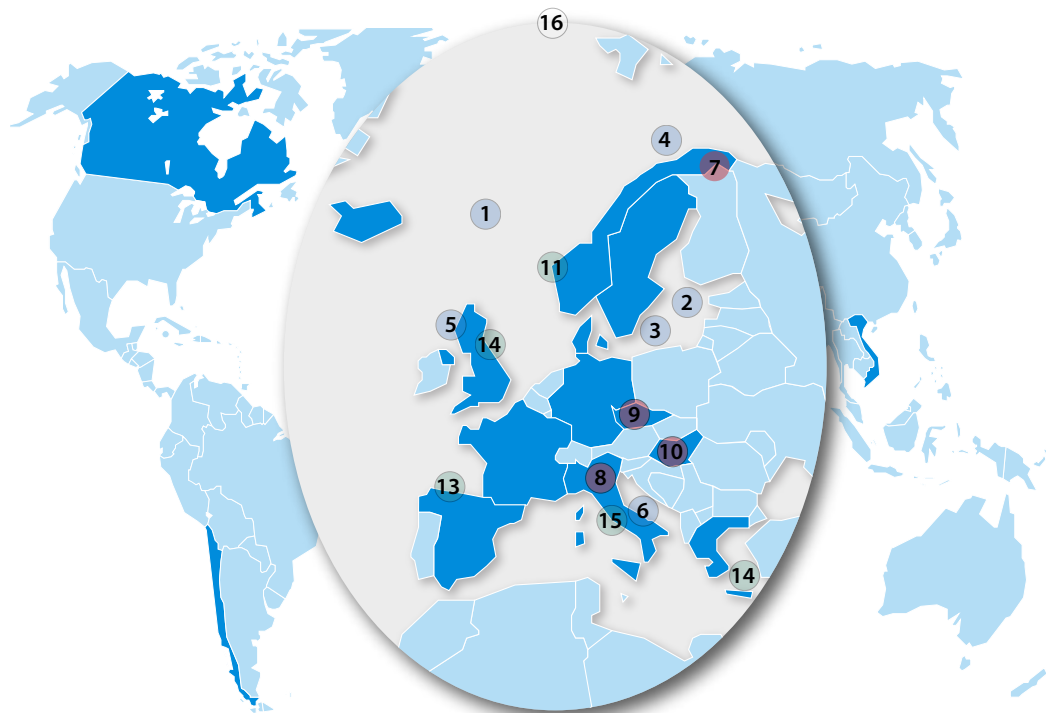
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## ClimeFish Impact Generators

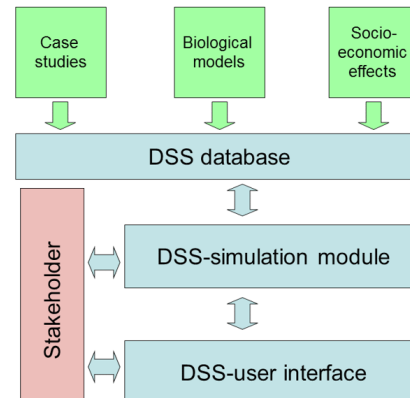
ClimeFish co-creates impact generators with its stakeholders to break down barriers between researchers, authorities, managers, fishers, producers, retailers and consumers. These include:

- **Knowledge gap analyses** on the most important and the less resilient fish species in Europe
- **Novel forecasting models** to simulate and analyse changes in distribution and production in the fisheries and aquaculture sectors
- **Early warning methodologies** and **adaptation strategies** for identified risks as well as the analysis of market and non-market costs and benefits of affected ecosystem services
- The ClimeFish **Decision Support Framework (DSF)** including a **Decision Support System (DSS)**



## Decision Support System (DSS)

The **ClimeFish DSS** is a new software application designed to support planning and decision making and participatory processes, using simulation techniques and models.



It consists of a database and different coupled biological and socio-economic models, and has an interface designed to be used by non-specialists.

## Decision Support Framework (DSF)

The **ClimeFish DSF** includes the different decision support resources that underlie the decisions of managers, policymakers, fishermen, aquaculture operators, and other stakeholders: general guidelines provide for making climate adaptation plans, databases, static and dynamic maps, forecasting models, and the ClimeFish DSS software application.



**ARE YOU AFFECTED BY CLIMATE CHANGE?  
WANT TO KNOW HOW CLIMEFISH CAN HELP YOU?  
CONTACT US!**

ClimeFish is looking at the overall impact of climate change on the seafood production and supply sectors by examining 16 different case studies throughout Europe.

Sector	Case	Geographical Area	Species
Marine Fisheries	C1F	NE Atlantic	Herring, mackerel, capelin, blue whiting, anchovy, sardine
	C2F	Baltic Sea	Herring, sprat
	C3F	Baltic Sea	Cod
	C4F	Barents Sea	Cod, haddock
	C5F	West of Scotland	Hake, cod
	C6F	Adriatic Sea	Hake
Lake and pond production	C7F	North Norwegian lakes	Brown trout, Artic char, whitefish, vendace
	C8F	Italian Lake Garda	Whitefish, Artic char
	C9F	Czech Republic lakes	Catfish, pike-perch, carp, whitefish
	C10A	Hungary	Carp, catfish
Marine Aquaculture	C11A	NE Atlantic	Salmon, cod
	C12A	Greece	Sea bass, meagre
	C13A	Spain, Iberian upwelling	Blue mussel, carpet shell
	C14A	Scotland	Blue mussel, flat and cupped oyster
	C15A	Italy	Blue mussel, carpet shell
	C16AF	European waters overall	All species listed above