

**UiT**  
THE ARCTIC  
UNIVERSITY  
OF NORWAY

**ClimeFish**

## Preparing for sustainable fish production in Europe under climate change


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### ClimeFish full name:

Co-creating a decision support framework to ensure sustainable fish production in Europe under climate change



**ClimeFish**

This project has received funding from the European Union's Horizon 2020 research and innovation action under grant agreement no.677039



## ClimeFish Horizon 2020 project



- H2020-BG-02-2015 – Forecasting and anticipating effects of climate change on fisheries and aquaculture
- 48 month duration, 04/2016 – 03/2020
- 5 MEUR EU contribution
- UiT is the coordinator
- 21 participants from 16 countries

<http://climefish.eu/>

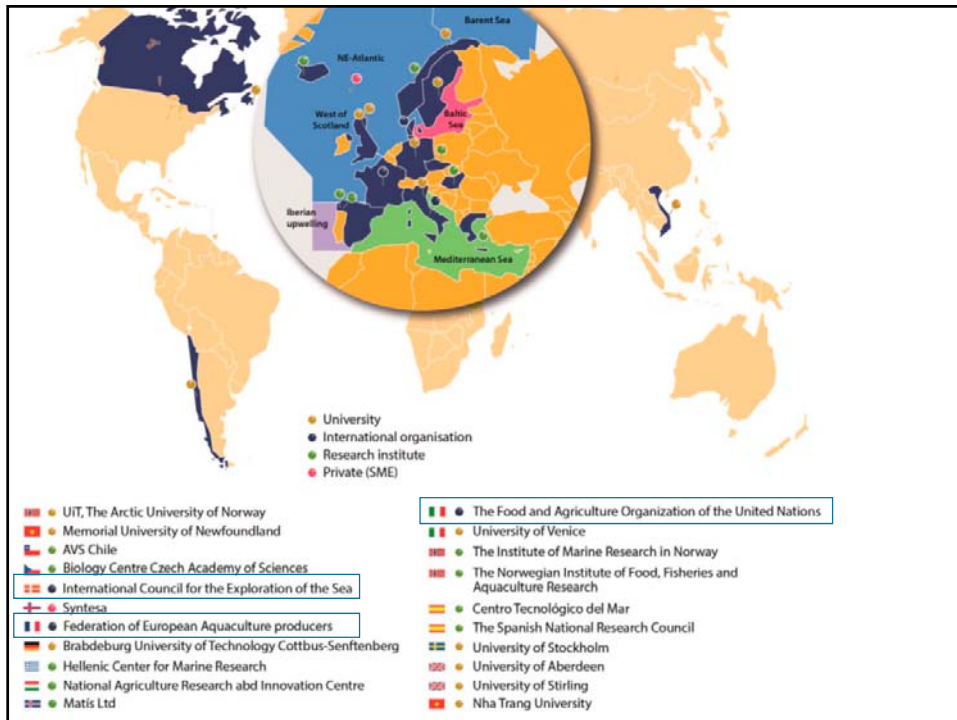
### ClimeFish overall objective:

ClimeFish will support sustainable fisheries, enable an increase in European aquaculture production, facilitate employment and regional development in the sectors, and develop forecasting and management tools for adapting to climate change; all in co-creation with stakeholders

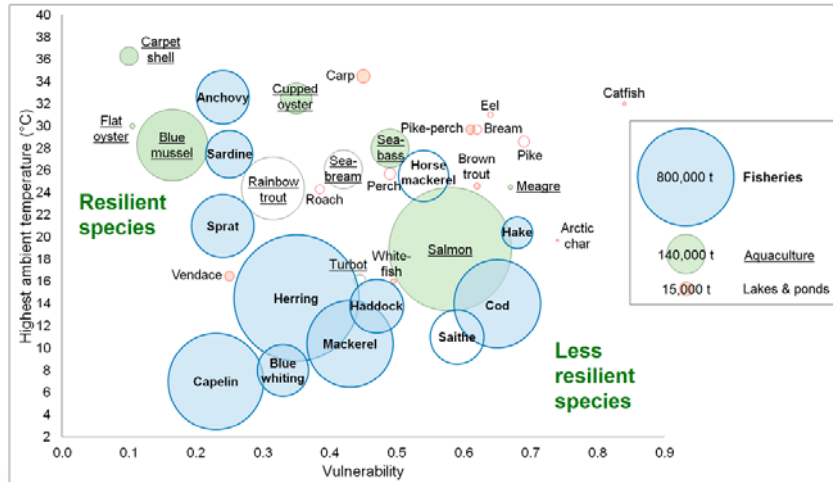


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## Resilience of the species with highest volume in European fisheries, aquaculture, and lakes & ponds production



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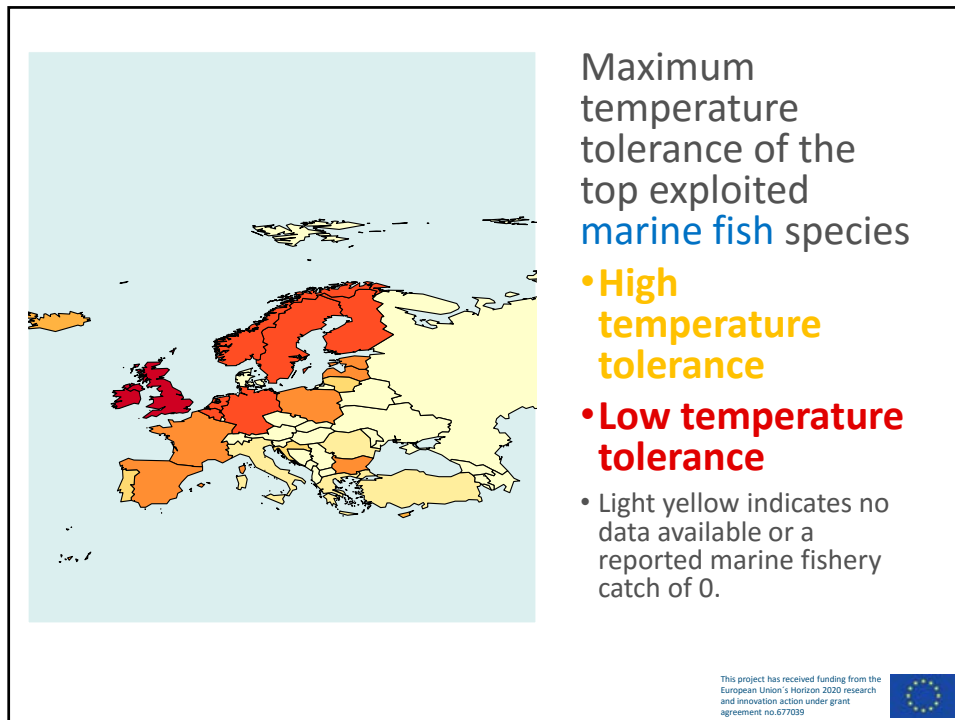
## Categorization of ClimeFish case studies

Case #	Ref	Sim	Impl	Geographical area	Species	Participants
C1F	X	X		NE Atlantic	Herring, mackerel, capelin, blue whiting, anchovy, sardine	Matis, IMR, ICES, UniAbdn, MUN
C2F	X			Baltic Sea	Herring, sprat	SU BSC
C3F	X			Baltic Sea	Cod	SU BSC
C4F	X			Barents Sea	Cod, haddock	IMR, UiT
C5F	X	X	X	West of Scotland	Hake, cod	UniAbdn
C6F	X			Adriatic Sea	Hake	UniVe
C7F	X			North Norwegian lakes	Brown trout, Arctic char, whitefish, vendace	UiT
C8F	X	X		Italian lake Garda	Whitefish, Arctic char	UniVe, UiT
C9F	X			Czech Republic lakes	Catfish, pike-perch, carp, whitefish	BCAS, UiT, UniVe
C10A	X	X	X	Hungary	Carp, catfish	HAKI
C11A	X	X		NE Atlantic	Salmon, cod	Nofima, UoS
C12A	X	X	X	Greece	Sea bass, meagre	HCMR
C13A	X	X		Spain, Iberian upwelling	Blue mussel, carpet shell	CSIC
C14A	X			Scotland	Blue mussel, flat and cupped oyster	UoS
C15A	X			Italy	Blue mussel, carpet shell	UniVe
C16AF	X	X		European waters overall	All species listed above	UiT, Nofima, all



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## What remains after the project has finished?

- Datasets collected, harmonized and made available
- Knowledge gap analysis based on comparing numerous cases
- Improved tools and methodologies, good practice recommendations
- Decision Support Framework (DSF) allowing stakeholders to anticipate, prepare and adapt to different CC scenarios
- A Decision Support System (DSS) software application
- A European voluntary standard (CWA) for how to make climate-enabled management plans related to seafood production
- Informed and engaged stakeholders



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## The ClimeFish Decision Support Framework

- The ClimeFish DSS with accompanying user instructions
- The forecasting models designed to simulate and analyse changes in production in the fisheries and aquaculture sectors
- Sample runs and tests of the models, description of model scope and limitations



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## The ClimeFish Decision Support Framework cont.

- Guidelines for making responsive MPs and climate change adaptation plans
- Guidelines for establishing legal good practice when resources move and diseases occur
- Recommendations for good co-creation practice based on lessons learned for how to utilize expert and stakeholder groups



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## The Climate-Adapt platform

Climate-ADAPT  
European Climate Adaptation Platform

Search the website

About Search the database EU policy Countries, regions, cities Knowledge Network Help

Knowledge / Adaptation information / Research projects

### Research projects

A wide range of research and knowledge projects on climate change adaptation is performed on European, transnational and national level.

Search the [CLIMATE-ADAPT database](#) for information on adaptation research-projects from EU framework programmes, EU transnational cooperation programmes and other international programmes.

References to national research projects can be found in the CLIMATE-ADAPT section on [national adaptation strategies](#) and also in the [INFOBASE](#) of the CIRCLE2 network.

The complete catalogue of climate-change related FP7 projects can be found in the [Research FP7 Environment Programme](#).

Highlighted projects in CLIMATE-ADAPT:

- [ClimateCest](#)
- [CLIMSAVE](#)
- [MEDIATION](#)
- [ECCO-ADAPT](#)

- [ClimeFish](#)
- [CERES](#)

[Share your information](#)



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## How you can get involved:

- ClimeFish conferences and workshops
- Participate at stakeholder consultations and hearings
- Follow us on home page and twitter [@ClimeFish](#), sign up for our newsletter
- Use the products being developed e.g. DSF and standard
- Give input!



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 **ClimeFish** <http://climefish.eu> E-mail: [ClimeFish@uit.no](mailto:ClimeFish@uit.no)

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