



Climate Change And European Aquatic Resources-*Ceres Project*

In this issue of MedFAR, Spotlight corner introduces CERES project. CERES project is funded by European Union's Horizon 2020 Research & Innovation Program under grant agreement No. 678193. CERES is led by Prof. Dr. Myron PECK (Institute of Hydrobiology and Fisheries Science, University of Hamburg). It is a four-years project which started in March 2016.

CERES covers a wide geographic area across European marine and inland waters. From marine regions which are open systems (NE Atlantic, Arctic) to enclosed basins (Mediterranean and Baltic sea).

26 research Institutions (including Mersin University) and industry partners from 15 countries are involved in CERES. Several Mediterranean institutions and industry partners are in CERES project.

In short; CERES has adopted a proactive approach towards interaction between climate change and capture fisheries/aquaculture industries. It is constructed around two main pillars namely; awareness building concerning climate change and its potential impacts on fisheries/aquaculture at sectoral levels (Stakeholders) and understanding and anticipating the impact of climate change on capture fisheries & aquaculture production systems to formulate appropriate adaptive management measures.

CERES focuses on cause-and-effect understanding of how climate change will influence Europe's most important fish and shellfish resources and the related economic activities. And will provide the knowledge and tools needed to successfully adapt European fisheries and aquaculture sectors in marine and inland waters to anticipated climate change. CERES will identify and communicate risks, opportunities and uncertainties thereby enhancing the resilience and supporting the development of adaptive management and governance systems for both capture fisheries and aquaculture within blue growth concept (<http://ceresproject.eu>).

A leading aquaculture producer in Eastern Mediterranean, both Turkish marine (Sea bass & Sea Bream) and inland (Rainbow trout) aquaculture sectors are integrated in CERES Project through several work packages. Mersin University is an academic partner institution in CERES while Kılıç Seafood is engaged in the project as an industry partner.

For further information regarding CERES please visit: <http://ceresproject.eu>.

GET INVOLVED: FISH AND SHELLFISH FARMERS, FISHERMEN & INDUSTRY CAN

... help to define **test scenarios** and identify what is important for each sector.

... contribute to **conceptual maps** of how climate change impacts on your industry.

... provide **anonymous data** to fuel economic analyses of farms and fleets.

... give **critical feedback** on analyses and project results.

... state **your perspective** on suggested solutions for industry and governance.

... spread **information** to other industry partners about this project.



CERES UNIVERSITIES



CERES RESEARCH INSTITUTES



CERES INDUSTRY PARTNERS



coordinated by

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Horizon 2020 - Blue Growth
Budget € 5.6 million
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CERES

CLIMATE CHANGE AND EUROPEAN AQUATIC RESOURCES

www.ceresproject.eu



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CERES WILL

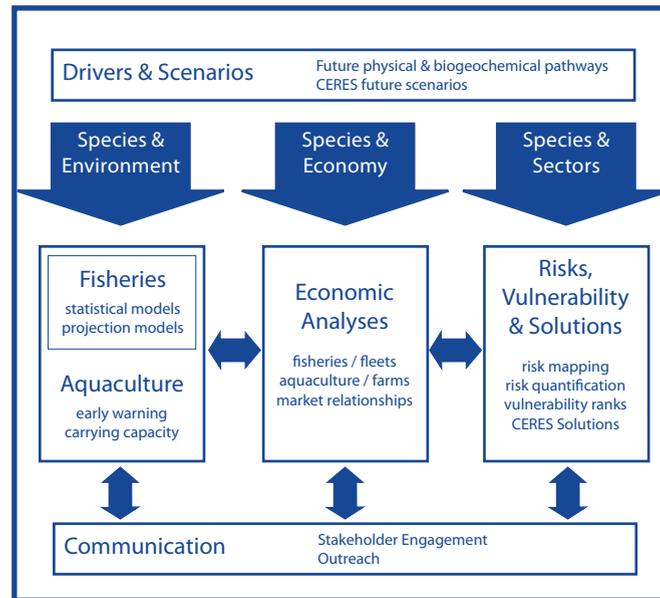
... provide **forecasts** of environmental conditions under climate change relevant for fisheries and aquaculture industries.

... estimate **economical consequences** for these aquatic industries by 'scaling up' changes in productivity and ecology of fish and shellfish.

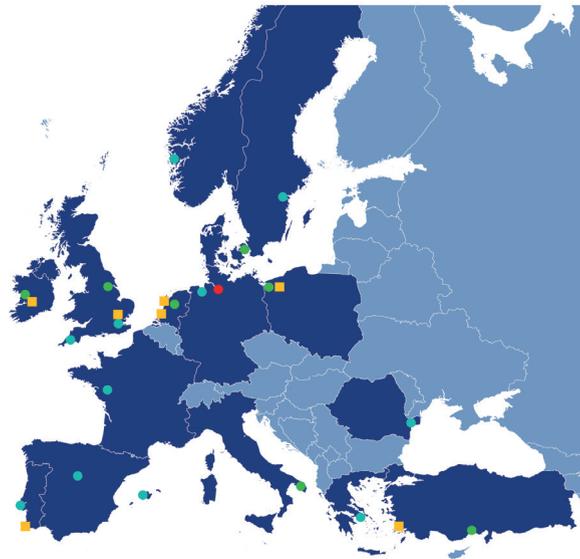
... assess exposure, **vulnerability** and adaptive capacity within European fisheries and aquaculture sectors.

... suggest viable **solutions** for aquatic food production industries to handle risks and expected benefits from climate change.

... highlight **management challenges** where established governance structures may hinder adaptation to climate change impacts.



SCIENTIFIC STRUCTURE



● 8 universities (● project coordinator)
 ● 11 research institutes ● 7 industry partners
 from 15 countries

CERES WORKS ACROSS

... sectors

marine fisheries
 marine aquaculture
 inland waters

... economies

demersal and pelagic fisheries
 purse seine and longline
 on-bottom and suspended cultures
 sea cages and coastal ponds
 semi-intensive and extensive farming
 inland aquaculture

... regions

from high latitude oceans to the Mediterranean Sea and European inland waters

... species

top economic targets e.g. small pelagics, gadoids, flatfishes, tuna, salmon, seabass, mussels, oyster, clams, trout, carp as well as emerging species

