



Fisheries and aquaculture related research in recent and current EU framework programmes

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85-90% of marine research funding in Europe comes from national budgets

EU-funded fisheries and aquaculture research - why?

- Common policy objectives, such as MSY and GES
- Equally ambitious policy implementation in all Member States
- Sharing of know-how and best practices and adjustment of national approaches can be best achieved by multinational research consortia
- Pre-commercial research with high innovation potential involves high failure risk, requires co-operation of diverse research teams and investment at levels and time-scales that national funding cannot always commensurate with
- Need to deliver the results to the whole EU economy

Fisheries and aquaculture research and innovation in FP7

- most related topics under KBBE
- around 160 mil € (including the SME call)
- ~ 0.3 % of total FP7 budget

Also related projects in the Ocean of Tomorrow (e.g. on environmental impacts of fisheries, aquaculture-related biosensors and off-shore platforms)

Indicative aquaculture KBBE projects

ORAQUA: development of the EU regulatory framework to underpin future growth of **organic aquaculture**

FISHBOOST: Improving European aquaculture by **advancing selective breeding** for several finfish species

SELFDOTT & TRANDOTT – Sustainable **tuna aquaculture**.
Implementation of existing knowledge on the artificial control of reproduction of the Atlantic Bluefin tuna, to obtain viable eggs, to study embryonic and larval development and to develop a commercial pelleted feed for reducing or eliminating the use by the fattening industry of raw fish as tuna feed.

ARRAINA– Advance Research Initiatives for **Nutrition** and Aquaculture

Indicative fisheries KBBE projects

DEEPFISHMAN: Deep sea fisheries management

FISHPOPTRACE: The **structure of fish populations** and **traceability** of fish and fish products

ECOFISHMAN: Using **results-based management** to achieve CFP objectives

ECOKNOWS: Improving fisheries assessment methods by **integrating new sources of biological knowledge**

COMFISH: Strengthening the impact of fisheries research through **dissemination, communication and technology transfer**

Indicative fisheries KBBE projects

MYFISH: Beyond MSY: defining **management targets and their consequences**

MAREFRAME: Innovative insights and tools to integrate the **ecosystem-based approach** into fisheries advice

COFASP: ERA-net on Cooperation in Fisheries, Aquaculture and Seafood Processing – **joint calls**



SOCIOEC
SOCIO ECONOMIC EFFECTS OF
MANAGEMENT MEASURES OF
THE FUTURE CFP



Central concept: to provide a **mechanism for developing measures** that are **consistent with the overarching sustainability objectives** of the EU, and that can provide **consensus across all stakeholders**.

- Development of **management objectives** addressing ecological, economic and social sustainability targets and are in-line with the CFP, MSFD etc. and understandable by the wider stakeholder community and engage their support.
- Proposal of potential **management measures**
- Analysis of the **incentives for compliance**, e.g. analysis of fisher's responses and perceptions of these measures, and how governance can change to facilitate self- and co-management to ensure fisher buy-in to promising management measures, particularly in local and regional contexts.
- Analysis of the **economic and social impacts** of the management measures
- **Integrated impact assessment**, including evaluation of how efficient, effective and coherent the proposed measures are.



Fisheries and aquaculture research in HORIZON 2020

Sustainable Food Security & Blue Growth calls



1. Health, demographic change and wellbeing

2. Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the bioeconomy

3. Secure, clean and efficient energy

4. Smart, green and integrated transport

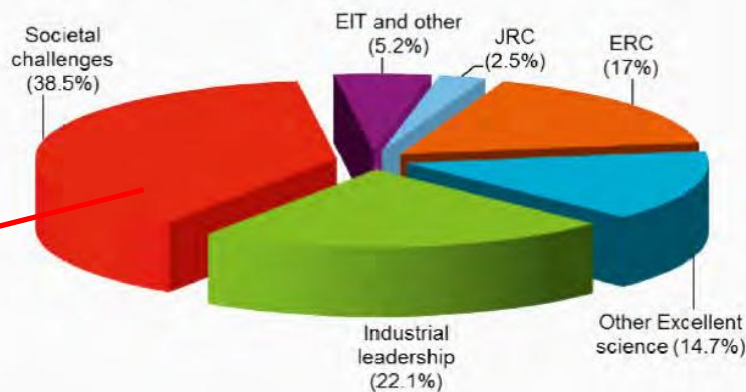
5. Climate action, resource efficiency and raw materials

6. Inclusive, innovative and reflective societies

7. Secure societies

HORIZON 2020

H2020 budget > € 70 Billion



←
Apprx. EUR 3,8 B for SC2
More than X2 compared
to FP7

Biggest EU investment in Research and Innovation



2.3.1. Developing sustainable and environmentally friendly fisheries

- Healthy & productive ecosystems, reformed CFP, MSFD, EAFM.
- Climate change: impact, mitigation, adaptation.
- Biology, genetic, dynamics of fish populations, role of key species.
- Ecolabelling, regionalisation, socio-economics.



2.3.2. Developing competitive and environmentally-friendly European aquaculture

- Domestication of new species for aquaculture production, diversification, health and disease, nutrition, breeding, innovative production systems;
- Market and consumers; healthy, safe and competitive products.
- Environmental services (bioremediation ..), energy production.

SFS-9-2014: Towards a gradual elimination of discards in European fisheries

R&I Action; € 10 million

SFS-10-2014/2015: Tackling disease related challenges and threats faced by European farmed aquatic animals

R&I Action; € 7 million for 2014 (fish parasites) , € 4 million for 2015 (mollusc disease)

SFS-11-2014/2015: Implementation of an Ecosystem-based approach for European aquaculture

R&I Action; € 3 million for 2014 (Spatial planning) , € 7,5 million for 2015 (modelling tools)

CRITERIA FOR TOPICS TO BE INCLUDED IN BLUE GROWTH FOCUS AREA

- 1/ High potential for **innovation** and growth
- 2/ Genuinely **cross-cutting** approaches
- 3/ Support across the **innovation chain** from research, to development
- 4/ Support to Policy: **Blue Growth agenda, Integrated Maritime Policy, Marine Strategy Framework Directive**





Blue Growth Call 2014-2015

- 10 topics in 2014 and 6 topics in 2015
- Involvement of SC2 (Sustainable Food Security), SC3 (Energy), SC4 (Transport) and SC5 (Climate Action)
- Strategic approach to international cooperation, including topics particularly relevant for the Atlantic Ocean Research Alliance



The Atlantic Ocean Research Alliance



Launched in May 2013 (Galway Statement) under Irish Presidency with Commissioners Geoghegan-Quinn & Damanaki

Goal: To better understand the Atlantic Ocean and to promote the sustainable management of its resources. The work will also study the interplay of the Atlantic Ocean with the Arctic Ocean, particularly with regards to climate change.

In WP 2014-2015: Several topics are identified as relevant for the Galway Statement. Participation of USA and Canada is particularly encouraged.

BG 1 – 2015: Atlantic marine ecosystems

R&I Action– 20 M€



BG 2 – 2015: Effects of climate change on fisheries and aquaculture

R&I Action– 10 M€

BG 5 – 2014: Innovative offshore economy

Coordination and Support Action - 2 M€



BG 8 – 2014 Atlantic Ocean Observations

R&I Action - 20M€



BG 9 – 2014: Acoustic and Imaging Technologies

R&I Action - 10M€



BG 10 -2014 : Competitiveness of seafood markets

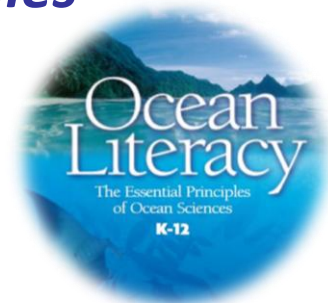
R&I Action -10M€



BG 11 – 2014 Monitoring, disseminating and valorising research outputs .
Coordination and Support Action - 4 M€

**BG 12 – 2014/2015 : Supporting SMEs efforts for the Blue Growth :
marine biotechnologies, aquaculture and related technologies**

SME instrument - 8 M€



BG 13 – 2014 : Ocean Literacy: Oceans and human health

Coordination and Support Action-3,5M€

BG 14 – 2014 :Atlantic Ocean Cooperation research Alliance

Coordination and Support Action Action-3,5M€



**BG 16: 2015 : Support to the Joint Programming Initiative on "Healthy
and Productive Seas and Oceans"**
Coordination and Support Action-

2M€



Modalities of 2015 calls

Type of funding action	Stages	Deadlines for submission
Research and Innovation Action (RIA)	2 stage	First stage: 3 February 2015 Second stage: 11 June 2015
Coordination and Support Action (CSA)	single stage	11 June 2015
SME instrument		Open submission with cut-off dates. During 2015: 18 March 17 June 17 September 16 December

Find out more and get support

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>



Strategic programming 2016 – 2017 indicative time-line

Spring 2014 – Internal reflection – consultation AG

Summer - Autumn 2014 – Consultation with PC and stakeholders

December 2014 – Proposed Strategic Programming

First half 2015 – WP 2016-2017 preparation

Summer to Autumn 2015 – Adoption WP, publication WP 2016-17



Thank you for your attention!

Find out more:

www.ec.europa.eu/research/horizon2020

Publication SC2 (including Blue Growth) at:

http://ec.europa.eu/research/horizon2020/index_en.cfm?pg=h2020-documents