

Cofund Blue Bioeconomy

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Management Board JPI Oceans
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Background Jointed partnership networks and Strategies



Background Relevance in policies and agendas

Taking EU relevant policies and agendas into account, such as:

- Common Fisheries Policy
- Marine Strategy Framework Directive
- Maritime Spatial planning Directive
- Developing the European Research Area (ERA)
- Horizon2020
- Blue Growth strategy
- Bioeconomy strategy
- FOOD 2030



OECD Ocean Economy in 2030



Scope

- New aquatic bioresources (marine & freshwater)
- New uses of traditional blue bioresources
- Improvement of existing value chains, incl. circular economy
- Cross-cutting and supportive issues



R&I areas along the value chains – From biomass to products and markets

Bioresources:

Fish and Shellfish
Algae, Sponges, Fungi
Microbiomes, Waste

Biobased products:

Food and Feed, Nutraceuticals
Cosmeceuticals, Pharmaceuticals
Biomaterials, Bioenergy

Exploration of
aquatic
bioresources

Sustainable
biomass production
and processing

Product
innovation and
differentiation

Market and
socioeconomic
aspects

Enabling technologies and infrastructure

Policy support and stimulation

Mobility, skills and capacity building

Cofund Proposal (2018) Blue Bioeconomy: Unlocking the Potential of Aquatic Bioresources

Objective- Valorisation of aquatic bioresources has a high potential for creating jobs, economic growth and providing food, feed and bio-based products, paving the way for a sustainable and competitive European blue bioeconomy.

EU Added Value- Aquatic biomass can ensure future FMS, supply for commodities and European competitiveness by sustainably harvesting and processing resources. This Cofund proposal, enabled through EU support, will create a cross-sectoral network and cross-fertilisation between the sectors thereby taking European industries further into the knowledge economy. By addressing the Blue Bioeconomy in this integrated, interdisciplinary, and cross sectoral way, the EU will ensure the production of safe, nutritious and valuable bio-products, while applying the food first principle. Through this Cofund partnership, the EU acts as a policy driver, giving direction to the strategic priorities and EU/MS commitments to deliver on: FOOD2030, MSFD, CFP, BG Strategy, the UN SDGs, COP21 agreements and the International Ocean Governance agenda. The Cofund will underpin regional and international policy actions and initiatives. This is also echoed in the gaps identified in the SRIAs/Roadmaps of ERA-NETs COFASP and MBT and JPI Oceans. EU funding enables participation of small and/or new countries across the regional basins of Europe, triggering cross-fertilisation, capacity and infrastructure sharing and enhances growth across the whole of the EU, a clear added value.



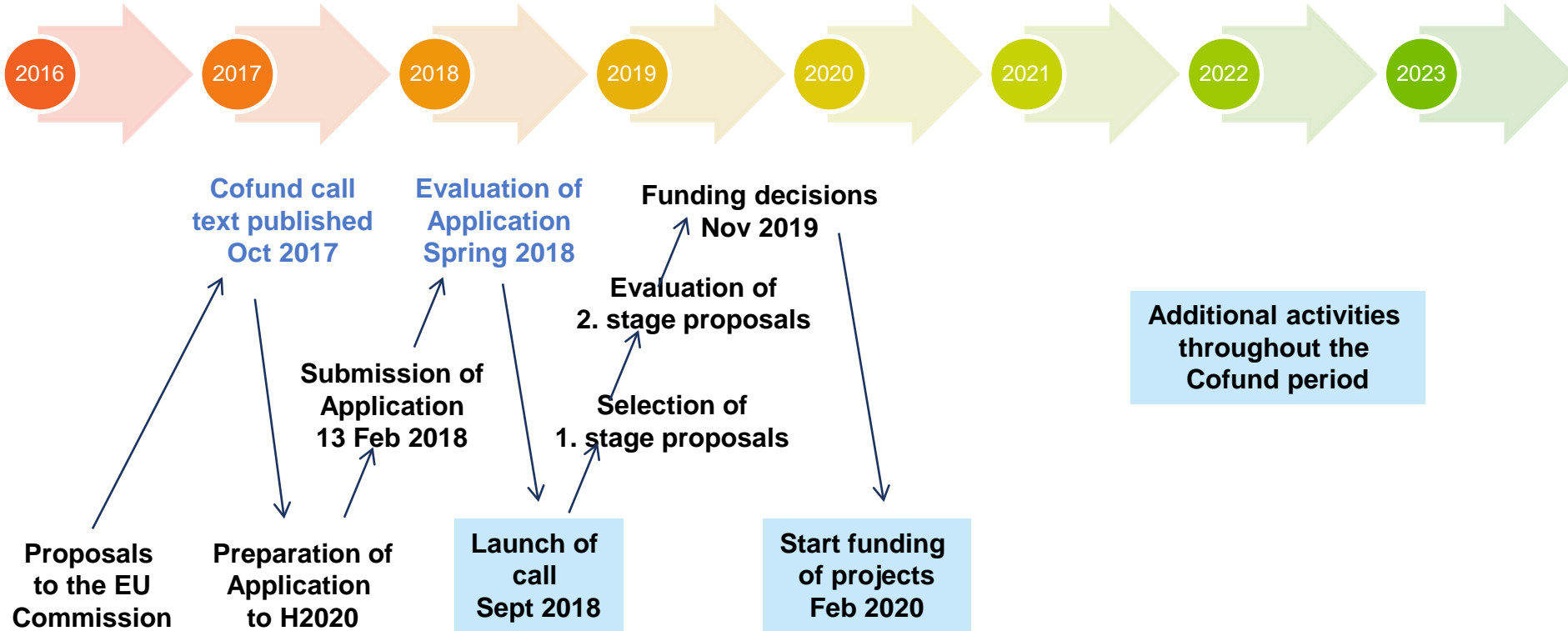
Scope- This Cofund engages relevant funding agencies in the aquatic field to implement a co-funded call focusing on blue knowledge and technological developments to respond to needs and gaps for R&I. The Cofund will create critical mass along the value chains from biomass to products and markets. It will apply the '3R principle' of Reducing, Reusing and Recycling to achieve a circular economy. Innovative, sustainable and climate-friendly utilization of aquatic biomass at different trophic levels will be explored, as well as sustainable harvesting, and novel aquaculture production systems targeting a range of markets. Biotechnology makes it possible to target new genetic resources and biomolecules, and utilise close to 100 % of the available biomass in new biorefineries.

The ERA-NET Cofund will address gaps such as: developing innovative uses of underutilised and waste material from fisheries and aquaculture to achieve zero waste; using biotechnology and ICT to develop smart, efficient, traceable food systems and create synergies between aquaculture and fisheries (genetic assessment); unlock the potential of microbiomes in aquaculture, fisheries, food processing and biotechnology; apply the latest developments in ICT (IoT, machine learning, big data) to the Blue Bioeconomy; creating predictive tools to improve the identification and targeting of biodiversity "hot-spots" in the oceans (omics based technologies); explore synergies with land-based production in areas such as food and feed processing, biorefining, bioenergy, biomaterials, chemicals and nutrients and include waste streams from aquatic to terrestrial value chains; improving aquaculture and fisheries by using biotechnology to create innovative feeds, improve brood stock, introduce new species, define stock baselines, and assess stocks.

Expected Impact- This Cofund will create new knowledge driven industries and jobs in rural and coastal areas and ensure sustainable Blue Growth for future generations. It will provide consumers with the knowledge needed to make informed decisions about safe, healthy and sustainable food and policy makers with robust scientific advice. Involvement of the users from the outset (SMEs, industry, policy makers, and consumers) will secure the market and social relevance and update of outcomes. New products and processes will be developed based on the food first, 3Rs and zero waste principles, leading to a blue circular economy. Strong representation from all regions of Europe, including new and/or small MS, enables knowledge and infrastructure sharing and cross-fertilisation. The Cofund will undertake additional activities and calls to strengthen impact through capacity building and mobility, networking, foresight/case and pilot studies, and use of European and national infrastructures thereby enhancing the leveraging effect of the EU investments in the partnership.

Commitment- 22 partners from 17 European countries¹ including new MS/AC have provided indicative commitment of ~ 420,000,000 with the ambition to launch additional calls. The estimated infrastructure/ capacity leveraging effect is at least 60%. A contribution of €10M from EC is envisaged and interest expressed by international partners will be followed up. The ambition is to include this Cofund in the 2018 Work Programme.

¹ Partner countries: DE, DK, EE, ES, FI, FR, GR, HR, IE, IT, MT, NO, PT, RO, SE, TR



Progress – Current Partners and funding commitments

With a blue subtitle

17 Countries Participating

Croatia, Estonia, Finland, France, Germany, Greece, Iceland, Denmark, Ireland, Italy, Malta, Norway, Portugal, Romania, Spain, Sweden, Turkey

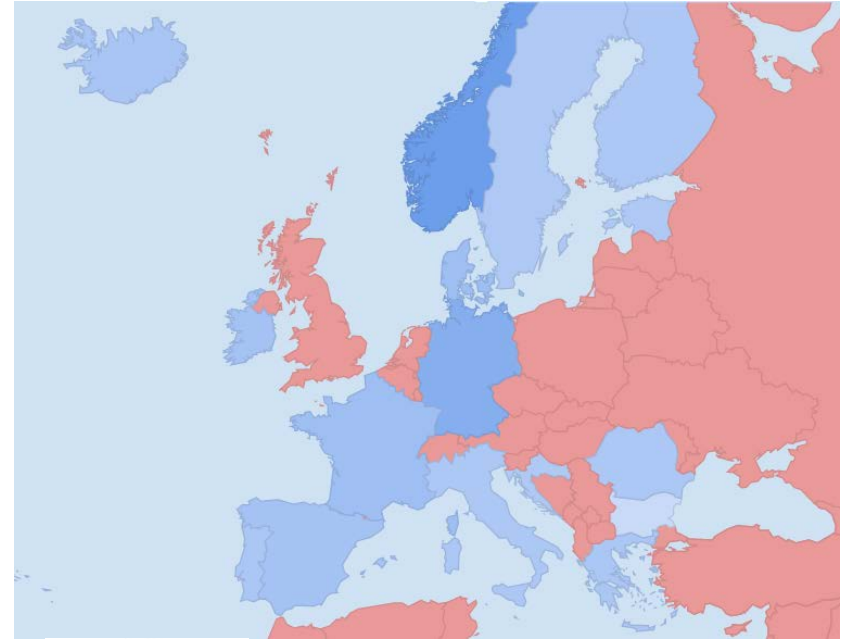
24 Partners

Current national commitment

€ 23,000,000 *approx.*

Expected EU Contribution

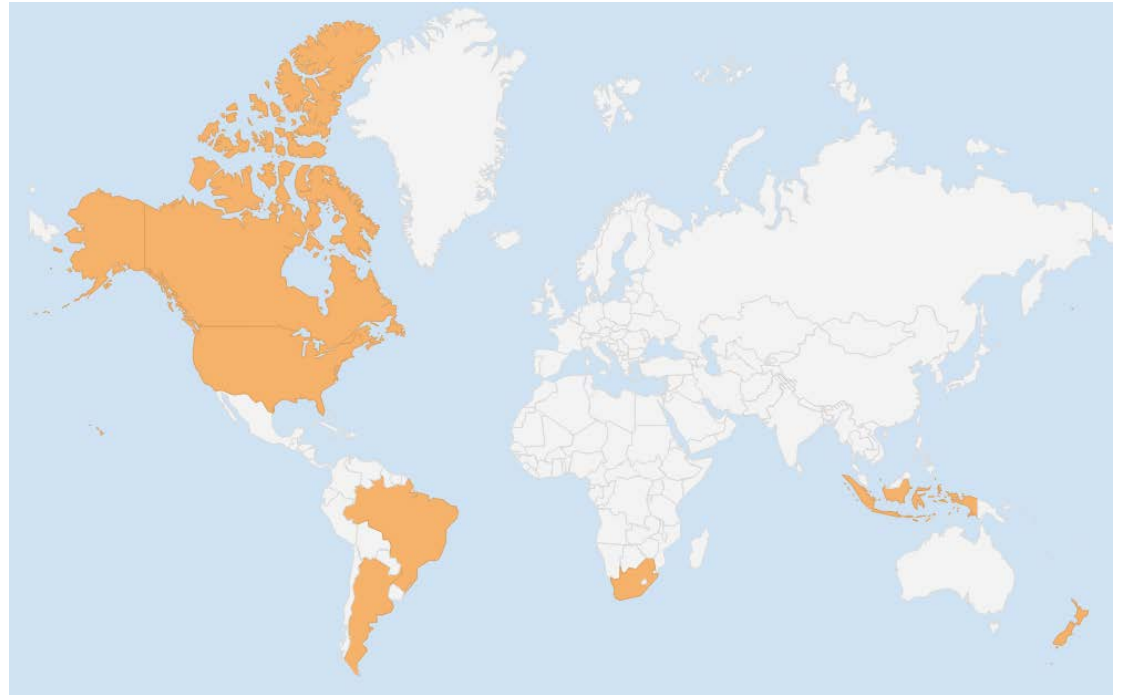
In the range of EUR 8 million



Potential International Participation

Countries approached or having expressed interest

- Argentina
- Brazil
- Canada
- Indonesia
- New Zealand
- South Africa
- USA

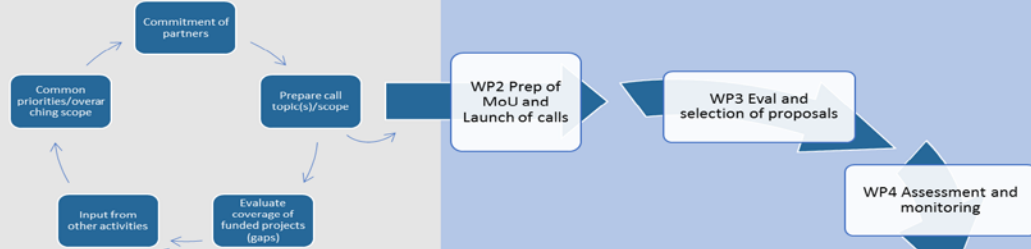


Progress Responding to call text WP 2018-2020 – BG-02-2018

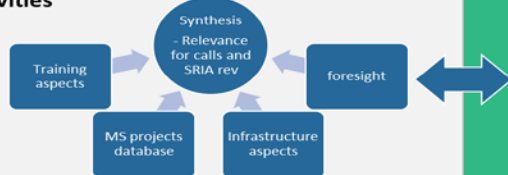
Activities shall address innovative, sustainable and climate-friendly possibilities to produce, harvest and exploit aquatic biomass from different trophic levels for use in food and other value chains. Include in the projects industry partners that contribute a concrete and feasible business perspective.

WP 1 Management

Governing Board & WP6 Additional Calls



WP7 Additional Activities

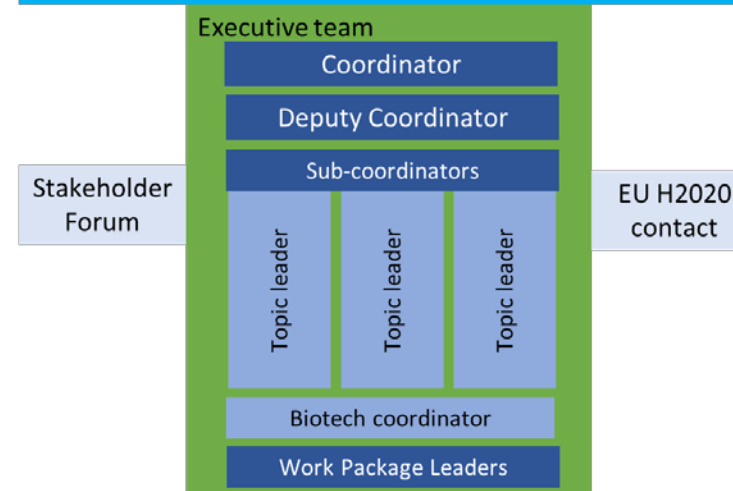


Funded Projects

WP5 Communication and impact

- ERA-MBT, COFASP funded projects
- COFUND projects
- COFUND activities

Governing Board



- Implementation of **EU policies** and international initiatives
- Contribute to the UN **SDG 2** and **SDG 14**
- New **knowledge-intensive products and services** derived from aquatic biomass, fostering **job creation and economic growth** in Europe.
- Provide **consumers** with the knowledge needed to make informed decisions about safe, healthy and sustainable food and
- Provide **policy makers** with robust scientific advice.
- Increase the efficient and sustainable use of **by-products** generated from blue bioeconomy sectors.
- Contribute to improve the **professional skills and competences** of those working and being trained to work within the blue economy.
- Contribute to **policymaking** in research, innovation and technology.

JPI OCEANS

THANK YOU

Name speaker