

# Blue Growth (Open) Funding Opportunities – 2018 & beyond

 South Norway  
European Office Ltd.  
Sørlandets Europakontor AS

**Interreg**  
North Sea Region  
**PERISCOPE**  
European Regional Development Fund



# Various Programmes:

- H2020
- LIFE
- EMFF
- INTERREG
- EUREKA



# H2020 – Blue Growth Call 2018 - 2020

The Blue Growth Call aims at sustainably harvesting the potential of resources from seas, oceans and inland waters for different uses and across the range of marine and maritime industries, while protecting biodiversity and enhancing climate resilience. It supports sustainable growth in the marine and maritime sectors through a responsible management of marine resources for healthy, productive, safe, secure and resilient seas and oceans, which are essential for thriving ecosystems, climate regulation, global food security, human health, livelihoods and economies.

*Intends to boost the blue economy by:*

*i) Improving our integrated knowledge about the reciprocal impact of climate change on marine ecosystems and biological resources in order to effectively manage their response, mitigation and resilience capacities;*

*ii) Preserving and sustainably exploiting marine and coastal ecosystems, and biological resources to deliver improved nutrition and health;*

*iii) De-risking major investments and boosting blue innovations on land and at sea to develop new bio-based marine value chains and open up new markets;*

*iv) Developing smart and connected territories between land and sea;*

*v) Strengthening the international research and innovation cooperation around seas and oceans, to promote a globally sustainable blue economy.*

# H2020 – Societal Challenges pillar WP: Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bio-economy

- **BG-01-2018:** Towards a Baltic and North Sea research and innovation programme
  - Activities shall focus on creating the necessary conditions for coordinated research and innovation efforts in the North Sea and Baltic Sea region in cooperation with the Joint Baltic Sea Research and Development Programme by bringing together the main national funding agencies (programme owners and/or managers). They shall map and engage with relevant stakeholders in the region and especially further strengthen a possible new/successor programme with a sound North Sea component.
  - **Budget – EUR 2.5 million**
  - **Deadline – 13 February 2018**
- **BG-02-2018:** Blue Bioeconomy Public-Public Partnership
  - Activities shall pool financial resources from participating national and/or regional research programmes with a view to implementing a joint call for proposals with EU co-funding. 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. The technical and economic feasibility of these possibilities should be clearly demonstrated by including in the projects industry partners that contribute a concrete and feasible business perspective.
  - **Budget – EUR 8 million**
  - **Deadline – 13 February 2018**

# H2020 – Societal Challenges pillar WP: Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bio-economy

- **BG-05-2019:** Multi-use of the marine space, offshore and near-shore: pilot demonstrators
- Activities shall develop pilots by involving industrial actors and by integrating the available knowledge, technologies and facilities, in particular capitalising on the results of EU and national projects for the development of multi-use platforms or co-location of different activities in a marine space, and relevant support offshore vessels and autonomous vehicles. Pilots could include the reconversion/reuse of decommissioned platforms. The pilots shall aim to demonstrate in a real environment the viability of the multi-uses of a marine space for the output of at least two economic activities (such as renewable energy, aquaculture, marine bio-resources and biotechnologies, maritime activities and related services or tourism).
- **Budget – EUR 9 million**
- **Deadline – 23 January 2019**
- **BG-07-2019-2020:** The Future of Seas and Oceans Flagship Initiative
- Proposals shall address one of the following sub-topics: blue cloud services, or ocean observations and forecasting, or technologies for observations. Actions shall demonstrate integration, capacity and (scientific, economic, etc.) potential.
- **Budget – EUR 6 million**
- **Deadline – 23 January 2019**

# H2020 – Societal Challenges pillar WP: Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bio-economy

- **LC-BG-09-2019:** Coordination of marine and maritime research and innovation in the Black Sea
- Proposals shall develop a Strategic Research and Innovation Agenda and Implementation Plan and contribute to the further alignment and convergence of national research and innovation activities and other relevant initiatives and investments by and with the different actors and across different sectors between the countries bordering the Black Sea coasts and the whole EU. Activities shall establish and consolidate an operational network of marine and maritime research funders and other key players.
- **Budget – EUR 2 million**
- **Deadline – 23 January 2019**
- **DT-BG-04-2018-2019:** Sustainable European aquaculture 4.0: nutrition and breeding
- Activities shall develop smart breeding programmes and/or tailor feeding formulas and technologies for conventional and organic aquaculture – for marine and/or freshwater - targeting animal health (contributing to disease resistance) and welfare, different production systems, feeding efficiency, resilience and climate change mitigation.
- **Budget – EUR 6 million**
- **Deadline – 23 January 2019**

# H2020 – Societal Challenges pillar WP: Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bio-economy

- **BG-08-2018-2019: All Atlantic Ocean Research Alliance Flagship**
- The actions shall aim at understanding and sustainably managing the Atlantic Ocean as a whole, through a large-scale basin effort and its interlinks with the adjacent areas, bringing together and connecting scientists, stakeholders, data, knowledge, expertise, capacities, and resources. Overall, activities shall contribute to upscale cooperation along and across the Atlantic Ocean and the creation of long-term partnerships.
- **Coordination of marine and maritime research and innovation activities in the Atlantic Ocean**
  - CSA single stage – 13 February 2018; Budget – EUR 4 million
- **Assessing the status of Atlantic marine ecosystems**
  - RIA two-stage – 13 February 2018 & 11 September 2018; Budget – EUR 9 million
- **New value chains for aquaculture production**
  - RIA two-stage – 23 January 2019 & 4 September 2019; Budget – EUR 8 million

# H2020 – Societal Challenges pillar WP: Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bio-economy

- **CE-BG-06-2019:** Sustainable solutions for bio-based plastics on land and sea
- Activities shall focus on sustainability strategies and solutions for bio-based products. They shall include innovative product design and business models facilitating efficient reuse and recycling strategies and solutions. They shall address the technical and economic barriers to bio-based plastics recycling as regards established and/or alternative recycling options.
- **Budget – EUR 9 million**
- **Deadline – 23 January 2019**
- **BG-03-2018:** Sustainable harvesting of marine biological resources
- Activities shall provide data, information and knowledge on the potential role of mesopelagic micro- and macro-organisms for human food chain and other bio-based products and processes, while preserving biodiversity and enhancing resilience to climate change and mitigation. They shall address issues such as food safety, fisheries management, fishing techniques, processing and consumer acceptance and marketing.
- **Budget – EUR 6 million**
- **RIA two-stage – 13 February 2018 & 11 September 2018**



# H2020 – Societal Challenges pillar WP: Clean and Efficient Energy

- **LC-CS<sub>3</sub>-RES-1-2019-2020:**  
Developing the next generation of renewable energy technologies
- Activities shall focus on converting renewable energy sources into an energy vector, or the direct application of renewable energy sources.
- This call includes technology-specific sub-topics
- **Budget – EUR 20 million**
- **Two-stage – 16 October 2018 & 25 April 2019**
- **LC-SC<sub>3</sub>-RES-11-2018:**  
Developing solutions to reduce the cost and increase performance of renewable technologies
- Activities shall focus on Technology development including reliable, sustainable and cost efficient anchoring and mooring system, dynamic cabling, installation techniques, and O&M concepts
- **Budget – EUR 30 million**
- **Two-stage – 31 January 2018 & 23 August 2018**

# H2020 – Societal Challenges pillar WP: Clean and Efficient Energy

- **LC-SC3-RES-13-2018:**  
Demonstrate solutions that significantly reduce the cost of renewable power generation
- Activities shall focus on offshore wind, development and validation of new manufacturing, installation and/or operation and maintenance techniques, introduction of new materials.
- The whole value chain, including dismantling, recycling and retrofitting procedures, will be involved to avoid over-engineering. Issues for improved production will be identified.
- **Budget – EUR 45 million**
- **Deadline – 13 January 2018**
- **LC-SC3-RES-14-  
ज़ज़ड़थ:** Optimising manufacturing and system operation
- Activities shall focus on new intelligent sensors, fault detection and communication systems for accurate condition and structural health monitoring will enable predictive and preventive Operation and preventive Maintenance processes, crucial for innovative wind farm control and the realization of virtual power plants.
- **Budget – EUR 20 million**
- **Two-stage – 16 October 2018 & 25 April 2019**

# H2020 – Societal Challenges pillar WP: Smart green and integrated transport

- **MG-3-2-2018** : The Autonomous Ship
- Activities shall focus on first adopters (inland waterways, short sea shipping, ferries coastal operations and urban water transport) develop and demonstrate to TRL7 a fully autonomous vessel within a realistic environment
- **Budget – EUR 20 million**
- **Two-stage – 30 January 2018 & 19 September 2018**
- **LC-MG-1-8-2019**: Retrofit Solutions and Next Generation Propulsion for Waterborne Transport
- Two sub-topics:
  - A) Develop and validate a concept for a passenger ship powered primarily by high power fuel cells
  - B) Develop and validate next generation high efficiency propulsion systems for ships using electrification and or clean fuels and or renewable energy sources
- **Budget – EUR 15 million**
- **Two-stage – 16 January 2019 & 12 September 2019**

# H2020 – Societal Challenges pillar WP: Smart green and integrated transport

- **LC-MG-1-9-2019 :**  
Upgrading transport infrastructure in order to monitor noise and emissions
- Activities shall focus on integrated equipment detecting noise limits in real time, automatic tolling systems, new materials and negative –emissions solutions for infrastructures applications
- **Budget – EUR 7 million**
- **Two-stage – 16 January 2019 & 12 September 2019**
- **MG-2-6-2019:** Moving freight by Water: Sustainable Infrastructure and Innovative Vessels
- Activities shall focus on either area a) inland waterways or area b) maritime transport.
- **Budget – EUR 30 million**
- **Two-stage – 16 January 2019 & 12 September 2019**

# H2020 – Societal Challenges pillar WP: Smart green and integrated transport

- **MG-2-8-2019** : Innovative applications of drones for ensuring safety in transport
- Activities shall focus on development and testing technologies, operational and business models for the application of drones or drone swarms and other emerging technologies. Including innovative technologies and sustainable business models for pilot services
- **Budget – EUR 15 million**
- **Two-stages – 16 January 2019 & 12 September 2019**
- **MG-BG-02-2019** : Ship emission control scenarios, marine environmental impact and mitigation
- Activities shall focus on the assessment of the range of emission reduction technologies and designs which may be deployed, consider their cost benefits, and emission control technologies
- **Budget – EUR 8 million**
- **Deadline – 24 April 2019**

# H2020 – Societal Challenges pillar WP: Smart green and integrated transport

- **MG-BG-01-2018:** Unmanned and autonomous survey activities at sea
- Activities shall focus on Develop and demonstrate to TRL5 an autonomous sea bed survey vehicle, Energy and propulsion systems capable of supporting several months of autonomous survey operation over large areas, minimizing deep sea deployment and recovery costs by for example enabling deployment by air and return to base features, Compatible survey equipment
- **Budget – EUR 8 million**
- **Deadline – 04 April 2018**

# H2020 – Societal Challenges pillar WP: Climate Action, Environment, Resource Efficiency, Raw Material

- **SC5-09-2018-2019** : New solutions for the sustainable production of raw materials
- Activities shall focus either on: Breakthrough concepts and solutions for sustainable exploration, mining and/or processing
- Digital mine, Industrial Internet of Things platform
- Recovery of metals and minerals from sea resources
- **Budget – EUR 20 million**
- **Two-stage – 27 February 2019 & 04 September 2018**

# H2020 – Societal Challenges pillar WP: Secure Society

- **SU-BESo2-2018-2019-2020**  
: Technologies to enhance border and external security
- Sub-topic 3 - Security on-board passenger ships
- Activities shall focus on ensuring security all along the "life cycle" of a voyage, new technologies can be implemented, as well as security novel procedures
- **Budget – EUR 21 million**
- **Deadline – 22 August 2019**



# H2020 – LEIT: ICT

- **ICT-11-2018-2019** : HPC and Big Data enabled Large-scale Test-beds and Applications
  - Activities shall focus on A) the development of large-scale HPC-enabled industrial pilot test-beds supporting big data applications and services by combining and/or adapting existing relevant technologies (HPC / BD / cloud) in order to handle and optimize the specific features of processing very large data sets, B) the development of large-scale IoT/Cloud-enabled industrial pilot test-beds for big data applications by combining and taking advantage of relevant technologies
  - **Budget – EUR 50 million (A), 40 million (B)**
  - **Deadline – 17 April 2018 & 14 November**
- **ICT-12-2018-2020** : Big Data technologies and extreme-scale analytics
  - Activities shall focus on A) developing new big data analytics methodologies and engineering solutions addressing industrial and/or societal challenges, B) ensure coordination between the different existing activities in HPC/BD/Cloud technologies, including Public-Private Partnerships, digital innovation hubs,
  - **Budget – EUR 30 million (A), 1 million (B)**
  - **Deadline– 17 April 2018**

# H2020 – LEIT: ICT

- **ICT-13-2018-2019**  
: Supporting the emergence of data markets and the data economy
- Activities shall A) setting up and operating platforms for secure and controlled sharing of "closed data" (proprietary and/or personal data), B) advance the state of the art in the scalability and computational efficiency of methods for securing desired levels of privacy of personal data
- **Budget – EUR 3 million (A), 10 million (B)**
- **Deadline – 17 April 2018**
- **CT-09-2019-2020** : Robotics in Application Areas
- Activities shall focus on A) Innovative approaches to hard research problems in relation to applications of robotics in promising new areas are particularly encouraged, B) Establish large-scale pilots capable of demonstrating the use of robotics at scale in actual or highly realistic operating environments; showcase advanced prototype applications built around platforms operating in real or near-real environments and demonstrate high levels of socio-economic impact.
- **Budget – EUR 20 million (A), 28 million (B)**
- **Deadline– 28 March 2019**

# H2020 – LEIT: ICT

- **ICT-14-2019** : Co-designing Extreme Scale Demonstrators (EsD)
- Activities shall focus on research, co-design, integration, validation and experimentation of extreme scale computing systems driven by a set of ambitious extreme data and HPC applications. EsDs should have the potential of being commercialised, operating in mode close to service delivery to users
- **Budget – EUR 80 million**
- **Deadline – 14 November 2019**
- **ICT-15-2019-2020** : Cloud Computing
- Activities shall focus on A) New modelling techniques and mechanisms are needed to compose and coordinate resources across heterogeneous clouds, Edge computing (fog computing) technologies, B) Facilitate awareness of stakeholders, Coordinate stakeholders in Cloud Computing
- **Budget – EUR 28,5 million (A), 1,5 million (B)**
- **Deadline– 28 March 2019**

# H2020 – Who can participate?

- Open to all Member States, plus Norway, Iceland, Liechtenstein, Switzerland.
- Sometimes other countries involved, e.g. Israel, Turkey, etc.
- Exact composition varies according to the call.
- Many calls require a team of at least three partners.

# H2020 – More information

- <https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/>

# LIFE

- LIFE is the EU's financial instrument supporting environmental, nature conservation and climate action projects throughout the EU.
- For the 2014-2020 funding period, LIFE will contribute approximately EUR 3.4 billion to the protection of the environment and climate.
- LIFE funds innovative projects that demonstrate new techniques and methods. These 'traditional' style projects are complemented by 'integrated' projects that combine LIFE funding with other sources of support to maximise their impact over a large area.
- Anyone registered in the EU can make a proposal for LIFE funding.
- A call for proposals is published every year.

# LIFE – More information

- <http://ec.europa.eu/environment/life/index.htm>



# EMFF – Sustainable Blue Economy Call

- Strand 1 – **DEMO PROJECTS**  
– 28/02/2018 at 16.00
- Aims to build on the results of relevant of research and innovation projects and support demonstration projects that help bring research results to the market and harness new business and investment opportunities in the blue economy
- Budget: up to EUR 1.000.000, with an absolute maximum of EUR 1.500.000; EASME expects to fund approximately eight proposals.
- Strand 2 - **MARINE LITTER** –  
08/02/2018 at 16.00
- This strand aims to build on the results of relevant projects whilst specifically focusing on tackling marine litter from sea-based sources
- Budget: between EUR 200.000 and EUR 500.000; EASME expects to fund approximately six proposals.



# EMFF – Sustainable Blue Economy Call

- Strand 3 – **BLUE NETWORKS IN THE MED** - 19/01/2018 at 16.00
- concrete actions are needed to accelerate the development of the blue economy in the Mediterranean and turn policy objectives into actions

## Budget:

- For specific objective a): between EUR 400.000 and EUR 500.000
- For specific objective b): EUR 500.000 and EUR 700.000
- For specific objective c): between EUR 300.000 and EUR 400.000
- EASME expects to fund approximately six proposals.
- EASME expects to fund at least 1 proposal per specific objective

- Strand 4 – **RESTORING MARINE ECOSYSTEMS IN THE MED** - 08/02/2018 at 16.00
- the project under this strand should build on the results of these or other relevant projects and complement them
- Budget: EUR 1.500.000; EASME expects to fund one proposal.

# EMFF – Environmental monitoring of wave and tidal devices

The specific objectives of this call are to:

- collect, process, analyse and share all environmental data and information on the positive, negative or absence of impacts of wave and tidal devices;
  - initiate strategic research to address gaps in knowledge to improve modelling of potential impacts of future deployments and to development of mitigation measures;
  - develop a more efficient planning and consenting procedure based on a risk-based approach to ocean energy licensing.
- Projects must undertake at least one, but preferably most of the following activities as part of the project implementation:
    - 1. Research, data collection and analysis
    - 2. Environmental demonstration strategy
    - 3. Consenting and planning
  - Budget: EUR 1.5 million

# EMFF – Who can participate?

The EMFF is the fund for the EU's maritime and fisheries policies for 2014-2020.

It supports the implementation of the reformed Common Fisheries Policy (CFP) and the EU Integrated Maritime Policy.

Budget - over €6 billion for 2014-2020.

Applicants from all EU Member States are eligible to apply.

EMFF support can be provided through grants and, increasingly, through financial instruments.

Projects should:

- Make the fisheries and aquaculture sectors more sustainable
- Conserve the marine environment
- Support growth and jobs in coastal communities.

# EMFF – More information

- <https://ec.europa.eu/easme/en/sustainable-blue-economy>

# INTERREG – Sustainable North Sea Region

Call 6 - **Preserving and protecting the environment and promoting resource efficiency** - open for the preparation of expressions of interest from 29 December 2017.

Deadline – tbc.

- Specific objective: Develop new methods for the long-term sustainable management of North Sea ecosystems.

# INTERREG – Who can participate?

The absolute minimum requirement for a project partnership at the full application stage is two partners in two different countries.

- The expression of interest is the first stage of the application process and is submitted using a short form in the online monitoring system, to see whether a project proposal fits the programme and whether the planned partners, activities, budget and results seem realistic to deliver the idea.
- The purpose of the expression of interest is to allow new and especially inexperienced beneficiaries to experiment with a project proposal without making a significant time and budget commitment.
- If the programme's Steering Committee approves the expression of interest, the project will be asked to develop and submit a full application. If this is approved, the project will receive a contract and can start work.

# INTERREG – More information

- <http://www.northsearegion.eu/>



# EUREKA Network Projects

EUREKA Network Projects are transnational, market-driven innovative research and development projects, labelled by EUREKA and supported by the public. They aim to develop marketable products, services or processes. EUREKA Network Projects are bottom-up and cover all technological areas with a civilian purpose.

- Open calls – all year.
- The consortium must have at least two partners from **two different EUREKA countries**. Partners can be of any type: SMEs, large companies, research institutions and universities.



# EUREKA – Eurostars

Eurostars aims to stimulate research-performing SMEs to lead international collaborative research and innovation projects by easing access to support and funding. It is fine-tuned to focus on the needs of SMEs, and specifically targets the development of new products, processes and services and the access to transnational and international markets.

- Two calls per year – next deadline: 1 March 2018.
- The consortium must include at least two partners independent from each other and established in at least two different Eurostars countries.
- The project must be completed in 36 months or less.

# EUREKA Cluster – EUROGIA2020

A typical cluster project is:

- 2-14 participants
- 3-4 countries
- Average duration 30 months
- Average project cost EUR 1.5 - 15

The application process for a EUROGIA2020 project proposal is a two-stage submission and evaluation procedure.

Next submission deadlines: 23 February 2018 and 25 May 2018

- EUROGIA2020 aims to support and promote transnational, low carbon energy technology projects
- EUROGIA2020 covers the entire energy mix from all forms of primary energy sources (except nuclear), through transportation and distribution, all the way to efficiency in end-use whether industrial or for individual consumers. It also includes transverse technologies such as materials, IT or manufacturing technologies that support the energy system.

# EUREKA – More information

- <http://www.eurekanetwork.org/>



# Can you think of a cluster organisation who would be interested?

PERISCOPE - Facilitating innovation

