



***H2020 & FP7 funded projects supporting  
the international dimension of the EU  
Atlantic Strategy***





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## **AORAC-SA**

### ***Atlantic Ocean Research Alliance Support Action***

**Topic:** H2020-BG-2014-1

**Start Date:** 01/03/2015

**End Date:** 29/02/2020

**Duration:** 60 months

**EC Contribution:** 3,447,000.00 (euro)

**Consortium:** 9 participants

**Project Coordinator:** MARINE INSTITUTE

#### **Abstract:**

The Atlantic Ocean Research Alliance Coordination and Support Action (AORAC-SA) is designed to provide scientific, technical and logistical support to the European Commission in developing and implementing trans-Atlantic Marine Research Cooperation between the European Union, the United States of America and Canada. The Coordination and Support Action (CSA) is carried out within the framework of the Atlantic Ocean Research Alliance as outlined in the Galway Statement on Atlantic Ocean Cooperation (May 2013). Recognising the evolving nature of the Atlantic Ocean Research Alliance, the hallmark of this proposal is that it is flexible, responsive, inclusive, efficient, innovative, value-adding and supportive. To support the Commission in negotiations with the USA and Canada on trans-Atlantic Ocean Research Cooperation, the AORAC-SA support and governance structure comprises a Secretariat and Management Team, guided by a high-level Operational Board, representative of the major European Marine Research Programming and Funding Organisations as well as those of the USA and Canada. This structure is further able to draw on significant marine research expertise and experience through its partner organisations. The CSA, reporting to the Commission representatives of the Atlantic Ocean Research Alliance, will be responsible for the organisation of expert and stakeholder meetings, workshops and conferences required by the Atlantic Ocean Research Alliance and related to identified research priorities (e.g. marine ecosystem-approach, observing systems, marine biotechnology, aquaculture, ocean literacy, seabed and benthic habitat mapping), support actions (e.g. shared access to infrastructure, dissemination and knowledge transfer, establishment of a knowledge sharing platform) and other initiatives as they arise, taking into account related Horizon 2020 supported trans-Atlantic projects (e.g. BG1, BG8 and BG13) and on-going national and EU collaborative projects (e.g. FP7).



## Project's Partners List

### AORAC-SA

Atlantic Ocean Research Alliance Support Action

<i>Project Partners</i>	<i>Name</i>	<i>Country</i>
1	MARINE INSTITUTE	IE
2	INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA	DK
3	INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER	FR
4	CONSORCIO PARA EL DISENO, CONSTRUCCION, EQUIPAMIENTO Y EXPLOTACION DE LA PLATAFORMA OCEANICA DE CANARIAS	ES
5	HAVFORSKNINGSINSTITUTTET	NO
6	RANNSOKNAMIDSTOD ISLANDS	IS
7	CIENCIA VIVA-AGENCIA NACIONAL PARA A CULTURA CIENTIFICA E TECNOLÓGICA	PT
8	WOC - WORLD OCEAN LIMITED	UK
9	MINISTERIO DA CIENCIA E TECNOLOGIA	BR



## **AquaSpace**

### ***Ecosystem Approach to making Space for Aquaculture***

**Topic:** H2020-SFS-2014-2

**Start Date:** 01/03/2015

**End Date:** 28/02/2018

**Duration:** 36 months

**EC Contribution:** 3,198,914.00 (euro)

**Consortium:** 21 participants

**Project Coordinator:** THE SCOTTISH ASSOCIATION FOR MARINESCIENCE LBG

#### **Abstract:**

The AquaSpace project has the goal of providing increased space for aquaculture to allow increased production. Following the call, we will achieve this by identifying the key constraints experienced by aquaculture development in a wide range of contexts and aquaculture types, taking into account all relevant factors and advised by a Reference User Group. We will then map these constraints against a wide variety of tools/methods that have already been developed in national and EU projects for spatial planning purposes, including some that have been designed specifically for aquaculture. In the freshwater sector only, we will also consider ecosystem services provided by aquaculture that are relevant to integrated catchment planning and management. At 16 case study sites having a variety of scales, aquaculture at different trophic levels with different environmental interactions and most importantly with a range of key space-related development constraints as defined by local stakeholders, we will assess appropriate tools using a common process so as to facilitate synthesis and comparison. This case study approach will generate a large amount of information and is allocated about a third of the project's resources. The project will develop the outcomes leading to a set of evaluated tools for facilitating the aquaculture planning process by overcoming present constraints. This information will be presented on an interactive web-based platform with tailored entry points for specific user types (e.g. planners, farmers, public) to enable them to navigate to the tools most appropriate to their application. The knowledge and information gained during this process will be developed into an on-line module at Masters Level which will also be developed into a short CPD course aimed at aquaculture planning professionals. The public will be engaged by an innovative school video competition and a vehicle to ensure project legacy will be established.



## Project's Partners List

**AquaSpace**

Ecosystem Approach to making Space for Aquaculture

Project Partners	Name	Country
No	Participant Legal Name	Country
1	THE SCOTTISH ASSOCIATION FOR MARINESCIENCE LBG	UK
2	AGRIFOOD AND BIOSCIENCES INSTITUTE	UK
3	FUNDACION AZTI - AZTI FUNDAZIOA	ES
4	BLUEFARM SRL	IT
5	CHRISTIAN MICHELSEN RESEARCH AS	NO
6	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES
7	FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS FAO	IT
8	NEMZETI AGRARKUTATASI ES INNOVACIOSKOZPONT	HU
9	INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER	FR
10	HAVFORSKNINGSINSTITUTTET	NO
11	THE JAMES HUTTON INSTITUTE	UK
12	Longline Environment Ltd	UK
13	MARINE SCOTLAND	UK
14	Sagremarisco-Viveiros de Marisco Lda	PT
15	JOHANN HEINRICH VON THUENEN-INSTITUT, BUNDESFORSCHUNGSINSTITUT FUER LAENDLICHE RAEUME, WALD UND FISCHEREI	DE
16	UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK	IE
17	PANEPISTIMIO KRITIS	EL
18	DALHOUSIE UNIVERSITY	CA
19	YELLOW SEA FISHERIES RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCES	CN
20	THE UNIVERSITY OF WESTERN AUSTRALIA	AU
21	BIHARUGRAI HALGAZDASAG MEZOGAZDASAGI TERMELO ERTEKESITO ES TERMESZETVEDELMI KFT	HU



## **AtlantOS**

### *Optimizing and Enhancing the Integrated Atlantic Ocean Observing System*

**Topic:** H2020-BG-2014-2

**Start Date:** 01/04/2015

**End Date:** 2019/06/30

**Duration:** 51 months

**EC Contribution:** 20,652,921.00 (euro)

**Consortium:** 62 participants

**Project Coordinator:** HELMHOLTZ ZENTRUM FUR OZEANFORSCHUNG KIEL

#### **Abstract:**

The overarching objective of AtlantOS is to achieve a transition from a loosely-coordinated set of existing ocean observing activities to a sustainable, efficient, and fit-for-purpose Integrated Atlantic Ocean Observing System (IAOOS), by defining requirements and systems design, improving the readiness of observing networks and data systems, and engaging stakeholders around the Atlantic; and leaving a legacy and strengthened contribution to the Global Ocean Observing System (GOOS) and the Global Earth Observation System of Systems (GEOSS). AtlantOS will fill existing in-situ observing system gaps and will ensure that data are readily accessible and useable. AtlantOS will demonstrate the utility of integrating in-situ and Earth observing satellite based observations towards informing a wide range of sectors using the Copernicus Marine Monitoring Services and the European Marine Observation and Data Network and connect them with similar activities around the Atlantic. AtlantOS will support activities to share, integrate and standardize in-situ observations, reduce the cost by network optimization and deployment of new technologies, and increase the competitiveness of European industries, and particularly of the small and medium enterprises of the marine sector. AtlantOS will promote innovation, documentation and exploitation of innovative observing systems. All AtlantOS work packages will strengthen the trans-Atlantic collaboration, through close interaction with partner institutions from Canada, United States, and the South Atlantic region. AtlantOS will develop a results-oriented dialogue with key stakeholder communities to enable a meaningful exchange between the products and services that IAOOS can deliver and the demands and needs of the stakeholder communities. Finally, AtlantOS will establish a structured dialogue with funding bodies, including the European Commission, USA, Canada and other countries to ensure sustainability and adequate growth of IAOOS.





## Project's Partners List

**AtlantOS**

Optimizing and Enhancing the Integrated Atlantic Ocean Observing System

Project Partners	Name	Country
No	Participant Legal Name	Country
1	HELMHOLTZ ZENTRUM FUR OZEANFORSCHUNG KIEL	DE
2	NATURAL ENVIRONMENT RESEARCH COUNCIL	UK
3	MARINE INSTITUTE	IE
4	UNIVERSITAET BREMEN	DE
5	DANMARKS METEOROLOGISKE INSTITUT	DK
6	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	FR
7	UNIVERSITE PIERRE ET MARIE CURIE - PARIS 6	FR
8	INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA	DK
9	KONSORTIUM DEUTSCHE MEERESFORSCHUNG e.V.	DE
10	INSTYTUT OCEANOLOGII POLSKIEJ AKADEMII NAUK	PL
11	HAVFORSKNINGSINSTITUTTET	NO
12	UNIVERSITETET I BERGEN	NO
13	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES
14	NORSK INSTITUTT FOR VANNFORSKNING	NO
15	CONSORCIO PARA EL DISEÑO, CONSTRUCCIÓN, EQUIPAMIENTO Y EXPLOTACION DE LA PLATAFORMA OCEANICA DE CANARIAS	ES
16	SIR ALISTER HARDY FOUNDATION FOR OCEAN SCIENCE	UK
17	DANMARKS TEKNISKE UNIVERSITET	DK
18	THE SCOTTISH ASSOCIATION FOR MARINESCIENCE LBG	UK
19	IMAR- INSTITUTO DO MAR	PT
20	STICHTING NIOZ, KONINKLIJK NEDERLANDS INSTITUUT VOOR ONDERZOEK DER ZEE	NL
21	MET OFFICE	UK
22	ALFRED-WEGENER-INSTITUT HELMHOLTZ- ZENTRUM FUER POLAR- UND MEERESFORSCHUNG	DE
23	HAVSTOVAN	FO
24	THE UNIVERSITY OF EXETER	UK
25	INSTITUT DE RECHERCHE POUR LE DEVELOPPEMENT	FR
26	EUMETNET GROUPEMENT D INTERET ECONOMIQUE	BE
27	COLLECTE LOCALISATION SATELLITES SA	FR
28	FONDAZIONE CENTRO EURO-MEDITERRANEO SUI CAMBIAMENTI CLIMATICI	IT
29	VLAAMS INSTITUUT VOOR DE ZEE VZW	BE
30	CIIMAR - Centro Interdisciplinar de Investigação Marinha e Ambiental	PT
31	IEEE FRANCE SECTION	FR



32	FONDATION EUROPEENNE DE LA SCIENCE	FR
33	UNIVERSITY OF PLYMOUTH	UK
34	UNIVERSIDADE DO ALGARVE	PT
35	INSTITUTO ESPANOL DE OCEANOGRAFIA	ES
36	INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER	FR
37	MERCATOR OCEAN	FR
38	ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA	IT
39	UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION -UNESCO	FR
40	EURO-ARGO ERIC	FR
41	EUROGOOS AISBL	BE
42	EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS	UK
43	PLYMOUTH MARINE LABORATORY	UK
44	DAITHI O'MURCHU MARINE RESEARCH STATION LTD	IE
45	SEASCAPE CONSULTANTS LTD	UK
46	BRUNCIN D.O.O. ZA USLUGE	HR
47	Ribocon GmbH	DE
48	DEVELOGIC GMBH	DE
49	NKE INSTRUMENTATION SARL	FR
50	KONGSBERG MARITIME CONTROS GMBH	DE
51	ACRI-ST SAS	FR
52	T.E. LABORATORIES LIMITED	IE
53	ETT SPA	IT
54	MARIENE INFORMATIE SERVICE MARIS BV	NL
55	BLUE LOBSTER IT LIMITED	UK
56	CLU srl	IT
57	MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV	DE
58	DALHOUSIE UNIVERSITY	CA
59	MEOPAR INCORPORATED	CA
60	MINISTERIO DA CIENCIA E TECNOLOGIA	BR
61	WOODS HOLE OCEANOGRAPHIC INSTITUTION	US
62	COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH	ZA



## **ATLAS**

*A Trans-AtLantic Assessment and deep-water ecosystem-based Spatial management plan for Europe*

**Topic:** H2020-BG-2015-2

**Start Date:** 01/05/2016

**End Date:** 30/04/2020

**Duration:** 48 months

**EC Contribution:** 9,100,316.86 (euro)

**Consortium:** 25 participants

**Project Coordinator:** HERIOT-WATT UNIVERSITY

### **Abstract:**

ATLAS creates a dynamic new partnership between multinational industries, SMEs, governments and academia to assess the Atlantic's deep-sea ecosystems and Marine Genetic Resources to create the integrated and adaptive planning products needed for sustainable Blue Growth. ATLAS will gather diverse new information on sensitive Atlantic ecosystems (incl. VMEs and EBSAs) to produce a step-change in our understanding of their connectivity, functioning and responses to future changes in human use and ocean climate. This is possible because ATLAS takes innovative approaches to its work and interweaves its objectives by placing business, policy and socioeconomic development at the forefront with science. ATLAS not only uses trans-Atlantic oceanographic arrays to understand and predict future change in living marine resources, but enhances their capacity with new sensors to make measurements directly relevant to ecosystem function. The ATLAS team has the track record needed to meet the project's ambitions and has already developed a programme of 25 deep-sea cruises, with more pending final decision. These cruises will study a network of 12 Case Studies spanning the Atlantic including sponge, cold-water coral, seamount and mid-ocean ridge ecosystems. The team has an unprecedented track record in policy development at national, European and international levels. An annual ATLAS Science-Policy Panel in Brussels will take the latest results and Blue Growth opportunities identified from the project directly to policy makers. Finally, ATLAS has a strong trans-Atlantic partnership in Canada and the USA where both government and academic partners will interact closely with ATLAS through shared cruises, staff secondments, scientific collaboration and work to inform Atlantic policy development. ATLAS has been created and designed with our N American partners to foster trans-Atlantic collaboration and the wider objectives of the Galway Statement on Atlantic Ocean Cooperation.



## Project's Partners List

### ATLAS

A Trans-AtLantic Assessment and deep-water ecosystem-based Spatial management plan for Europe

Project Partners	Name	Country
1	HERIOT-WATT UNIVERSITY	UK
2	AARHUS UNIVERSITET	DK
3	IMAR- INSTITUTO DO MAR	PT
4	SECRETARIA REGIONAL DO MAR, CIENCIA E TECNOLOGIA	PT
5	NATURAL ENVIRONMENT RESEARCH COUNCIL	UK
6	GIANNI MATTHEW	NL
7	INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER	FR
8	MARINE SCOTLAND	UK
9	UNIVERSITAET BREMEN	DE
10	Median SCP	ES
11	STICHTING NIOZ, KONINKLIJK NEDERLANDS INSTITUUT VOOR ONDERZOEK DER ZEE	NL
12	DYNAMIC EARTH CHARITABLE TRUST	UK
13	THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD	UK
14	UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN	IE
15	UNIVERSITY COLLEGE LONDON	UK
16	NATIONAL UNIVERSITY OF IRELAND, GALWAY	IE
17	THE UNIVERSITY OF LIVERPOOL	UK
18	SYDDANSK UNIVERSITET	DK
19	UNIVERSITETET I TROMSOE	NO
20	THE SCOTTISH ASSOCIATION FOR MARINESCIENCE LBG	UK
21	SEASCAPE CONSULTANTS LTD	UK
22	INSTITUTO ESPANOL DE OCEANOGRAFIA	ES
23	UNIVERSITY OF NORTH CAROLINA AT WILMINGTON	US
24	AquaTT UETP Ltd	IE
25	IODINE SPRL	BE



## **CERES**

### *Climate change and European aquatic RESources*

**Topic:** H2020-BG-2015-2

**Start Date:** 01/03/2016

**End Date:** 29/02/2020

**Duration:** 48 months

**EC Contribution:** 5,586,851.25 (euro)

**Consortium:** 26 participants

**Project Coordinator:** UNIVERSITAET HAMBURG

#### **Abstract:**

CERES advances a cause-and-effect understanding of how future climate change will influence Europe's most important fish and shellfish populations, their habitats, and the economic activities dependent on these species. CERES will involve and closely cooperate with industry and policy stakeholders to define policy, environment, social, technological, law and environmental climate change scenarios to be tested. This four-year project will: 1. Provide regionally relevant short-, medium- and long-term future, high resolution projections of key environmental variables for European marine and freshwater ecosystems; 2. Integrate the resulting knowledge on changes in productivity, biology and ecology of wild and cultured animals (including key indirect / food web interactions), and 'scale up' to consequences for shellfish and fish populations, assemblages as well as their ecosystems and economic sectors; 3. Utilize innovative risk-assessment methodologies that encompass drivers of change, threats to fishery and aquaculture resources, expert knowledge, barriers to adaptation and likely consequences if mitigation measures are not put in place; 4. Anticipate responses and assist in the adaptation of aquatic food production industries to underlying biophysical changes, including developing new operating procedures, early warning methods, infrastructures, location choice, and markets; 5. Create short-, medium- and long-term projections tools for the industry fisheries as well as policy makers to more effectively promote blue growth of aquaculture and fisheries in different regions; 6. Consider market-level responses to changes (both positive and negative) in commodity availability as a result of climate change; 7. Formulate viable autonomous adaptation strategies within the industries and for policy to circumvent/prevent perceived risks or to access future opportunities; 8. Effectively communicate these findings and tools to potential end-users and relevant stakeholders.



## Project's Partners List

**CERES**

Climate change and European aquatic REsources

Project Partners	Name	Country
1	UNIVERSITAET HAMBURG	DE
2	THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS	UK
3	CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LE SCIENZE DEL MARE	IT
4	DANMARKS TEKNISKE UNIVERSITET	DK
5	HELLENIC CENTRE FOR MARINE RESEARCH	EL
6	INSTITUTO ESPANOL DE OCEANOGRAFIA	ES
7	INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER	FR
8	Longline Environment Ltd	UK
9	NATIONAL UNIVERSITY OF IRELAND, GALWAY	IE
10	PLYMOUTH MARINE LABORATORY	UK
11	SVERIGES METEOROLOGISKA OCH HYDROLOGISKA INSTITUT	SE
12	UNIVERSITY OF HULL	UK
13	RODGER HAMISH	IE
14	ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE	PL
15	INSTITUTO PORTUGUES DO MAR E DA ATMOSFERA IP	PT
16	STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK	NL
17	HAVFORSKNINGSINSTITUTTET	NO
18	INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE DELTA DUNARII	RO
19	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES
20	JOHANN HEINRICH VON THUENEN-INSTITUT, BUNDESFORSCHUNGSINSTITUT FUER LAENDLICHE RAEUME, WALD UND FISCHEREI	DE
21	MERSIN UNIVERSITESI	TR
22	PELAGIC FREEZER TRAWLER ASSOCIATION	NL
23	KILIC DENIZ URUNLERI URETIMI IHRACAT ITHALAT VE TICARET AS	TR
24	COOPERATIVE KOTTERVISSERIJ NEDERLAND UA	NL
25	INSKIE CENTRUM RYBACTWA SPOLKA ZOO	PL
26	Sagremarisco-Viveiros de Marisco Lda	PT



## **DiscardLess**

### *Strategies for the gradual elimination of discards in European fisheries*

**Topic:** H2020-SFS-2014-2

**Start Date:** 01/03/2015

**End Date:** 28/02/2019

**Duration:** 48 months

**EC Contribution:** 5,000,000.00 (euro)

**Consortium:** 31 participants

**Project Coordinator:** DANMARKS TEKNISKE UNIVERSITET

#### **Abstract:**

The European Union has committed to the gradual elimination of discarding. DiscardLess will help provide the knowledge, tools and technologies as well as the involvement of the stakeholders to achieve this. These will be integrated into Discard Mitigation Strategies (DMS) proposing cost-effective solutions at all stages of the seafood supply chain. The first focus is on preventing the unwanted catches from ever being caught. This will promote changes in gear using existing and innovative selectivity technology, and changes in fishing tactics based on fishers' and scientists' knowledge. The second focus is on making best use of the unavoidable unwanted catch. We will detail technical and marketing innovations from the deck, through the supply chain to the final market, including monitoring, traceability and valorization components. DiscardLess will evaluate the impacts of discarding on the marine environment, on the economy, and across the wider society. We will evaluate these impacts before, during and after the implementation of the landing obligation, allowing comparison between intentions and outcomes. Eliminating discards is as much a societal challenge as a fishery management one, so we will also evaluate stakeholders' perception of discards. DiscardLess will describe the changes in management and the associated governance structures needed to cement the process. We will propose approaches to managing discards in a range of case study fisheries across Europe, encompassing differences in specific discarding issues. All these innovations will be combined in integrated Internet based interactive programs (DMS toolbox) that will help fishers to evaluate the present and future situation and to take a more qualified decision of how to adjust to the new regime. Also, we will disseminate the outcome of the project and maximize knowledge transfer across Europe through an educational environment – teaching the next generation – as well as more conventional routes.



## Project's Partners List

### DiscardLess

Strategies for the gradual elimination of discards in European fisheries

Project Partners	Name	Country
1	DANMARKS TEKNISKE UNIVERSITET	DK
2	INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER	FR
3	INSTITUTO ESPANOL DE OCEANOGRAFIA	ES
4	UNIVERSITETET I BERGEN	NO
5	UNIVERSITY OF STRATHCLYDE	UK
6	KOBENHAVNS UNIVERSITET	DK
7	UNIVERSITE DE BRETAGNE OCCIDENTALE	FR
8	SEA FISH INDUSTRY AUTHORITY	UK
9	MARINE SCOTLAND	UK
10	FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS FAO	IT
11	SIMRAD SPAIN SLU	ES
12	HAMPIDJAN HF	IS
13	SAFETYNET TECHNOLOGIES LIMITED	UK
14	MARINE INSTITUTE	IE
15	IOANNA N.ARGYROU SIMBOULOI EPICHEIR ISIAKIS ANAPTYXIS ETAIREIA PERIORISMENIS EYTHYNIS	EL
16	AQUIMER	FR
17	IMAR- INSTITUTO DO MAR	PT
18	THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS	UK
19	MATIS OHF	IS
20	MAREL HF	IS
21	SHIPCON SP ZOO	PL
22	TRACE Wildlife Forensics Network Limited	UK
23	FUNDACION AZTI - AZTI FUNDAZIOA	ES
24	BARNA SA	ES
25	NUTRITION SCIENCES NV	BE
26	UNIVERSITETET I TROMSOE	NO
27	IRISH OBSERVER NETWORK LIMITED	IE
28	FISHFIX	BE
29	INSTITUT SUPERIEUR DES SCIENCES AGRONOMIQUES, AGROALIMENTAIRES, HORTICOLES ET DU PAYSAGE	FR
30	ALPHAFILM & KOMMUNIKATION APS	DK
31	Memorial University of Newfoundland	CA





## **EU-PolarNet**

*Connecting Science with Society*

**Topic:** H2020-BG-2014-1

**Start Date:** 01/03/2015

**End Date:** 29/02/2020

**Duration:** 60 months

**EC Contribution:** 2,174,503.25 (euro)

**Consortium:** 22 participants

**Project Coordinator:** ALFRED-WEGENER-INSTITUT HELMHOLTZ- ZENTRUM FUER POLAR- UND MEERESFORSCHUNG

### **Abstract:**

The rapid changes occurring in the Polar Regions are significantly influencing global climate with consequences for global society. European polar research has contributed critical knowledge to identifying the processes behind these rapid changes but, in contrast to lower latitudes, datasets from the Polar Regions are still insufficient to fully understand and more effectively predict the effects of change on our climate and society. This situation can only be improved by a more holistic integrated scientific approach, a higher degree of coordination of polar research and closer cooperation with all relevant actors on an international level as requested in the Horizon 2020 work programme. The objectives of EU-PolarNet are to establish an ongoing dialogue between policymakers, business and industry leaders, local communities and scientists to increase mutual understanding and identify new ways of working that will deliver economic and societal benefits. The results of this dialogue will be brought together in a plan for an Integrated European Research Programme that will be co-designed with all relevant stakeholders and coordinated with the activities of many other polar research nations beyond Europe, including Canada and the United States, with which consortium partners already have productive links. This consortium brings together well-established, world-class, multi-disciplinary research institutions whose science programmes are internationally recognised for excellence. Alongside these scientific capabilities, the national programmes represented in this proposal possess a unique array of infrastructure and operational expertise to support science in both Polar Regions. The consortium is uniquely well positioned to significantly enhance Europe's capabilities to undertake state of the art science and cost-efficiently operate infrastructure in the hostile polar environments.



## Project's Partners List

**EU-PolarNet**  
Connecting Science with Society

Project Partners	Name	Country
1	ALFRED-WEGENER-INSTITUT HELMHOLTZ- ZENTRUM FUER POLAR- UND MEERESFORSCHUNG	DE
2	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	FR
3	NATURAL ENVIRONMENT RESEARCH COUNCIL	UK
4	CONSIGLIO NAZIONALE DELLE RICERCHE	IT
5	POLARFORSKNINGSSEKRETARIETET	SE
6	INSTITUT POLAIRE FRANCAIS PAUL EMILE VICTOR	FR
7	Instituto de Geografia e Ordenamento do Território da Universidade de Lisboa	PT
8	RIJKSUNIVERSITEIT GRONINGEN	NL
9	NORGES FORSKNINGSRAD	NO
10	MINISTERIO DE ECONOMIA Y COMPETITIVIDAD	ES
11	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES
12	UNIVERSITAT WIEN	AT
13	BULGARSKI ANTARKTICHESKI INSTITUT ASSOCIATION	BG
14	Geological Survey of Denmark and Greenland	DK
15	VRIJE UNIVERSITEIT BRUSSEL	BE
16	OULUN YLIOPISTO	FI
17	INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE	BE
18	Instytut Geofizyki Polskiej Akademii Nauk	PL
19	TALLINNA TEHNIKAULIKOOL	EE
20	Arctic Monitoring and Assessment Programme Secretariat	NO
21	WOC - WORLD OCEAN LIMITED	UK
22	GRONLANDS NATURINSTITUT	GL



## **INMARE**

***Industrial Applications of Marine Enzymes: Innovative screening and expression platforms to discover and use the functional protein diversity from the sea***

**Topic:** H2020-BG-2014-2

**Start Date:** 01/04/2015

**End Date:** 31/03/2019

**Duration:** 48 months

**EC Contribution:** 5,999,557.13 (euro)

**Consortium:** 24 participants

**Project Coordinator:** BANGOR UNIVERSITY

### **Abstract:**

INMARE stands for “Industrial Applications of Marine Enzymes: Innovative screening and expression platforms to discover and use the functional protein diversity from the sea”. It is a collaborative Innovation Action to streamline the pathways of discovery and industrial applications of new marine enzymes and bioactives for targeted production of fine chemicals, drugs and in environmental clean-up applications. The INMARE consortium will unify the multidisciplinary expertise and facilities of academic and industry partners. This will include integrating the following core activities: advanced technologies to access and sample unique marine biodiversity hot-spots; state-of-the art technologies for construction of metagenomic libraries; innovative enzyme screening assays and platforms; cutting-edge sequence annotation pipelines and bioinformatics resources; high-end activity screening technology; bioanalytical and bioprocess engineering facilities and expertise, nanoparticle-biocatalysts; high-quality protein crystallization and structural analysis facilities and experts in IP management for biotechnology. The companies involved in the project are market leaders in enzyme production and biocatalysis processes designed to efficiently deliver safer (pharmaceuticals) cheaper (agriculture) and biobased (biopolymers) products. They also have impressive track record in environmental clean-up technologies and are committed to promoting public understanding, awareness and dissemination of scientific research. The main emphasis will be focused on streamlining and shortening the pipelines for enzyme and ‘bioactive compound’ discovery towards industrial applications through the establishing of marine enzyme collections with a high proportion of enzymes-“allrounders”. The project will also prioritize the identification of novel lead products and the delivery of improved prototypes for new biocatalytic processes.



## Project's Partners List

### **INMARE**

Industrial Applications of Marine Enzymes: Innovative screening and expression platforms to discover and use the functional protein diversity from the sea

Project Partners	Name	Country
1	BANGOR UNIVERSITY	UK
2	UNIVERSITAET HAMBURG	DE
3	HEINRICH-HEINE-UNIVERSITAET DUESSELDORF	DE
4	CONSIGLIO NAZIONALE DELLE RICERCHE	IT
5	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES
6	BAYER AKTIENGESELLSCHAFT	DE
7	NOVOZYMES A/S	DK
8	UNIVERSITETET I BERGEN	NO
9	UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK	IE
10	VILNIAUS UNIVERSITETAS	LT
11	JACOBS UNIVERSITY BREMEN GMBH	DE
12	PHARMAMAR, S.A.	ES
13	THE RESEARCH COMMITTEE OF THE TECHNICAL UNIVERSITY OF CRETE	EL
14	ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA	IT
15	ASSOCIACAO DO INSTITUTO SUPERIOR TECNICO PARA A INVESTIGACAO E DESENVOLVIMENTO	PT
16	EVOCATAL GMBH	DE
17	INOFEA AG	CH
18	FACHHOCHSCHULE NORDWESTSCHWEIZ	CH
19	LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE	UK
20	CLUSTER INDUSTRIELLE BIOTECHNOLOGIE 2021 E.V.	DE
21	THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO	CA
22	SEASCAPE CONSULTANTS LTD	UK
23	UNI RESEARCH AS	NO
24	UNIVERSITA DEGLI STUDI DI MILANO	IT



## **MAREFRAME**

### ***Co-creating Ecosystem-based Fisheries Management Solutions***

**Topic:** FP7-KBBE-2013-7-single-stage

**Start Date:** 01/01/2014

**End Date:** 31/12/2017

**Duration:** 48 months

**EC Contribution:** 5,999,908.00 (euro)

**Consortium:** 28 participants

**Project Coordinator:** MATIS OHF

#### **Abstract:**

MareFrame seeks to remove barriers preventing a more widespread use of an Ecosystem-based Approach to Fisheries Management (EAFM). It will develop assessment methods and a Decision Support Framework (DSF) for management of marine resources and thereby enhance the capacity to provide integrated assessment, advice and decision support for an EAFM. Enabling comparisons between relevant "what-if" scenarios and their likely consequences, DSF will support the implementation of the new Common Fisheries Policy (CFP) and the Marine Strategy Framework Directive (MSFD). The project SMEs, together with RTD institutions and stakeholders, will develop and demonstrate the use of innovative decision support tools through training actions, role-play and workshops. Indicators of Good Environmental Status (GES) will be developed along with models for ecosystem-based management. The models will take multi-species approaches into account and be developed and compared through seven datasets of six European regional seas. The models will draw on historical data sets and data from new analytical methods. Model performance will be compared and evaluated using a simulated ecosystem as an operating model. Learning from the experience of previous and on-going research, MareFrame integrates stakeholders at its core using a co-creation approach that combines analytical and participatory processes to provide knowledge that can be applied to policy-making, improving management plans and implementation of EAFM. The project dissemination will use innovative ways to ensure effective usage of project outcomes. The work packages and the allocation of roles have been designed to ensure effective collaboration through the project's lifetime. MareFrame liaises with other national and international research projects and is of high relevance to the future management of living marine resources in Europe in a changing environment, taking a holistic view incorporating socio-economic and legislative issues.



## Project's Partners List

### **MAREFRAME**

Co-creating Ecosystem-based Fisheries Management Solutions

Project Partners	Name	Country
1	MATIS OHF	IS
2	HASKOLI ISLANDS	IS
3	MORSKI INSTYTUT RYBACKI - PANSTWOWY INSTYTUT BADAWCZY	PL
4	HELSINGIN YLIOPISTO	FI
5	HAFRANNSOKNASTOFNUNIN	IS
6	THE UNIVERSITY COURT OF THE UNIVERSITY OF ABERDEEN	UK
7	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES
8	INSTITUTO ESPANOL DE OCEANOGRAFIA	ES
9	CONSIGLIO NAZIONALE DELLE RICERCHE	IT
10	INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE MARINA GRIGORE ANTIPA	RO
11	SVERIGES LANTBRUKSUNIVERSITET	SE
12	STOCKHOLMS UNIVERSITET	SE
13	CENTRO TECNOLOGICO DEL MAR - FUNDACION CETMAR	ES
14	UNIVERSITETET I TROMSOE	NO
15	NOFIMA AS	NO
16	AALBORG UNIVERSITET	DK
17	UNIVERSITY OF CAPE TOWN	ZA
18	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION	AU
19	NATIONAL INSTITUTE OF WATER AND ATMOSPHERIC RESEARCH	NZ
20	NRC (EUROPE) LTD	UK
21	SYNTESA APS	DK
22	SPF TOKNI	FO
23	MAPIX TECHNOLOGIES LTD	UK
24	SHUTTLE THREAD LIMITED	UK
25	NSRAC LBG	UK
26	NORTH WESTERN WATERS REGIONAL ADVISORY COUNCIL LIMITED BY GUARANTEE	IE
27	STICHTING THE PELAGIC REGIONAL ADVISORY COUNCIL	NL
28	INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA	DK



## **MARIBE**

### *Marine Investment for the Blue Economy*

**Topic:** H2020-BG-2014-1

**Start Date:** 01/03/2015

**End Date:** 31/08/2016

**Duration:** 18 months

**EC Contribution:** 1,977,951.25 (euro)

**Consortium:** 10 participants

**Project Coordinator:** UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK

#### **Abstract:**

MARIBE is a Horizon 2020 project that aims to unlock the potential of multi-use of space in the offshore economy (also referred to as Blue Economy). This forms part of the long-term Blue Growth (BG) strategy to support sustainable growth in the marine and maritime sectors as a whole; something which is at the heart of the Integrated Maritime Policy, the EU Innovation Union, and the Europe 2020 strategy for smart, sustainable growth. Within the Blue Economy, there are new and emerging sectors comprising technologies that are early stage and novel. These are referred to as Blue Growth sectors and they have developed independently for the most part without pursuing cooperation opportunities with other sectors. MARIBE investigates cooperation opportunities (partnerships, joint ventures etc.) for companies within the four key BG sectors in order to develop these companies and their sectors and to promote the multi-use of space in the offshore economy. The sectors are Marine Renewable Energy, Aquaculture, Marine Biotechnology and Seabed Mining. MARIBE links and cross-cuts with the Transatlantic Ocean Research Alliance and the Galway Statement by reviewing the three European basins (Atlantic, Mediterranean, and Baltic) as well as the Caribbean Basin. The project begins with an assessment of the current Blue Growth economy. A socio-economic study of the various Blue Growth sectors will be undertaken. Existing business models will be mapped according to best practice methodology, cognisant of their value chains. The technical and non-technical challenges of the business will be identified and proposals made for their mitigation. Key FP7 projects that focus on multi-use of space and multi-use platforms will also be assessed. The consortium will draw on this study to identify key opportunities for synergistic collaboration. It will examine 24 sectoral combinations in total and 12 of those with high potential will be developed further. To do this, MARIBE will work with selected EU-funded consortia (particularly those involved in the Oceans of Tomorrow projects) to develop cross-sectoral projects. It will also work with a range of academic and industry partners to develop projects within 5 additional sectoral combinations that present potential for synergistic collaboration. The MARIBE partners will take a hands-on approach to developing collaboration, brokering partnerships where necessary and assisting with the creation of the business plans and implementation plans required to secure investment for these 12 projects.



## Project's Partners List

**MARIBE**  
Marine Investment for the Blue Economy

Project Partners	Name	Country
1	UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK	IE
2	STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK	NL
3	ECOAST	BE
4	SWANSEA UNIVERSITY	UK
5	HERIOT-WATT UNIVERSITY	UK
6	UNIVERSIDAD DE CANTABRIA	ES
7	AQUABIOTECH LIMITED	MT
8	FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS FAO	IT
9	BUSINESS MODELS INC BV	NL
10	BVG ASSOCIATES LIMITED	UK





## **PrimeFish**

***Developing Innovative Market Orientated Prediction Toolbox to Strengthen the Economic Sustainability and Competitiveness of European Seafood on Local and Global markets***

**Topic:** H2020-BG-2014-2

**Start Date:** 01/03/2015

**End Date:** 28/02/2019

**Duration:** 48 months

**EC Contribution:** 4,997,912.50 (euro)

**Consortium:** 16 participants

**Project Coordinator:** MATIS OHF

### **Abstract:**

The overall aim of PrimeFish is to improve the economic sustainability of European fisheries and aquaculture sectors. PrimeFish will gather data from individual production companies, industry and sales organisations, consumers and public sources. The data will be related to the competitiveness and economic performance of companies in the sector; this includes data on price development, supply chain relations, markets, consumer behaviour and successful product innovation. The large industry reference group will facilitate access to data on specific case studies. A data repository will be created, and PrimeFish will join the H2020 Open Research Data Pilot to ensure future open access to the data. The effectiveness of demand stimulation through health, label and certification claims will be evaluated and compared with actual consumer behaviour. PrimeFish will assess the non-market value associated with aquaculture and captured fisheries as well as the effectiveness of regulatory systems and thereby provide the basis for improved societal decision making in the future. The collected data will be used to verify models and develop prediction algorithms that will be implemented into a computerized decision support system (PrimeDSS). The PrimeDSS, together with the underlying data, models, algorithms, assumptions and accompanying user instructions will form the PrimeFish Decision Support Framework (PrimeDSF). The lead users, typically fishermen, aquaculture producers and production companies, will be able to use the PrimeDSF to improve understanding of the functioning of their markets and in setting strategic plans for future production and innovation which in turn will strengthen the long term viability of the European fisheries and aquaculture sectors. This will also benefit consumers, leading to more diversified European seafood products, enhanced added value, novel products and improved information on origin, certification and health claims.



## Project's Partners List

### PrimeFish

Developing Innovative Market Orientated Prediction Toolbox to Strengthen the Economic Sustainability and Competitiveness of European Seafood on Local and Global markets

Project Partners	Name	Country
1	MATIS OHF	IS
2	AALBORG UNIVERSITET	DK
3	SP/F SYNTESA	FO
4	INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE	FR
5	UNIVERSITE SAVOIE MONT BLANC	FR
6	VEREIN ZUR FOERDERUNG DES TECHNOLOGIETRANSFERS AN DER HOCHSCHULE BREMERHAVEN E.V.	DE
7	HASKOLI ISLANDS	IS
8	UNIVERSITA DEGLI STUDI DI PARMA	IT
9	UNIVERSITA DEGLI STUDI DI PAVIA	IT
10	KONTALI ANALYSE AS	NO
11	NOFIMA AS	NO
12	UNIVERSITETET I TROMSOE	NO
13	CENTRO TECNOLOGICO DEL MAR - FUNDACION CETMAR	ES
14	THE UNIVERSITY OF STIRLING	UK
15	TRUONG DAI HOC NHA TRANG	VN
16	Memorial University of Newfoundland	CA



## **Respon-SEA-ble**

*Sustainable oceans: our collective responsibility, our common interest. Building on real-life knowledge knowledge systems for developing interactive and mutual learning media*

**Topic:** H2020-BG-2014-1

**Start Date:** 01/04/2015

**End Date:** 31/03/2019

**Duration:** 48 months

**EC Contribution:** 3,696,644.00 (euro)

**Consortium:** 15 participants

**Project Coordinator:** ACTEON SARL

### **Abstract:**

The project will develop well-targeted and sound communication material that raises awareness on our (individual and collective) responsibility and interest in ensuring the sustainability of the ocean and of its ecosystems. The project builds on critical assessments of: (1) existing communication strategies, material and governance that focuses on the ocean; (2) the values, perceptions and understanding of the state, functioning and role of the ocean by different types of stakeholders and of the wider public; (3) the (scientific) knowledge that exist on the ocean-human relationship, in particular in terms of ecosystem services that can be delivered by ocean ecosystems and support (future) development opportunities and blue growth and of pressures that are imposed on the oceans. These critical assessments will help identifying priority target groups with key responsibilities and interests in the state of our oceans - today and in the future. Within a participatory process involving the stakeholders of the knowledge creation & sharing system from four European marine regions (Baltic Sea, Mediterranean Sea, Northern Sea and Atlantic \_ including in its transatlantic dimension), and building on the scientific knowledge-base established and on project-dedicated IT structure/platform, the project will then develop and test under real conditions innovative communication tools. Key principles guiding this development will be interactivity, mutual learning, creativity and entertainment. Finally, specific activities will be performed for ensuring proposed communication tools are made accessible and available to their future users in Europe but also elsewhere.



## Project's Partners List

### Respon-SEA-ble

Sustainable oceans: our collective responsibility, our common interest. Building on real-life knowledge systems for developing interactive and mutual learning media

Project Partners	Name	Country
1	ACTEON SARL	FR
2	STIFTELSEN GRID ARENDAL	NO
3	NATIONAL UNIVERSITY OF IRELAND, GALWAY	IE
4	STICHTING PROSEA MARINE EDUCATION	NL
5	COFAC COOPERATIVA DE FORMACAO E ANIMACAO CULTURAL CRL	PT
6	INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE DELTA DUNARII	RO
7	NORSK INSTITUTT FOR VANNFORSKNING	NO
8	CSP - INNOVAZIONE NELLE ICT S.C.A.R.L.	IT
9	BALTIC ENVIRONMENTAL FORUM DEUTSCHLAND EV	DE
10	FUNDACION AZTI - AZTI FUNDAZIOA	ES
11	THE MARINE FOUNDATION LIMITED	UK
12	SEVEN ENGINEERING CONSULTANTS OE	EL
13	UNIVERSITE DE BRETAGNE OCCIDENTALE	FR
14	UNIVERSITY OF PLYMOUTH	UK
15	TELEVISION FOR THE ENVIRONMENT	UK



## Sea Change

**Topic:** H2020-BG-2014-1

**Start Date:** 01/03/2015

**End Date:** 28/02/2018

**Duration:** 36 months

**EC Contribution:** 3,494,876.00 (euro)

**Consortium:** 17 participants

**Project Coordinator:** MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM

### Abstract:

The overarching goals of the Sea Change project are to bring about a fundamental “Sea Change” in the way European citizens view their relationship with the sea, by empowering them – as ‘Ocean Literate’ citizens - to take direct and sustainable action towards healthy seas and ocean, healthy communities and ultimately - a healthy planet. Key objectives of Sea Change are to: • Compile an in-depth review of the links between Seas and Ocean and Human health based on latest research knowledge outputs • Build upon the latest social research on citizen and stakeholder attitudes, perceptions and values to help design and implement successful mobilisation activities focused on education, community, governance actors and directly targeted at citizens. marine education • Build upon significant work to date, adopting best practice and embedding Ocean Literacy across established strategic initiatives and networks in order to help maximise impact and ensure sustainability • Ensure that efforts to sustain an Ocean Literate society in Europe continue beyond the life of Sea Change through codes of good practice, public campaigns and other ongoing community activities. • Ensure that all activities of Sea Change are carefully monitored and evaluated to ensure maximum sustainability, effectiveness and efficiency • Ensure Knowledge exchange with transatlantic partners to bring about a global approach to protecting the planet’s shared seas and ocean. The objectives will be achieved by a closely interlinked programme. Sea Change includes a mobilisation phase engaging with citizens, formal education and policy actors. Crucially the legacy of Sea Change, including continuing knowledge sharing with North America, are embedded within the project.



## Project's Partners List

### Sea Change

Project Partners	Name	Country
1	MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM	UK
2	AquaTT UETP Ltd	IE
3	THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS	UK
4	NATIONAL UNIVERSITY OF IRELAND, GALWAY	IE
5	GOETEBORGS UNIVERSITET	SE
6	VLAAMS INSTITUUT VOOR DE ZEE VZW	BE
7	FONDATION EUROPEENNE DE LA SCIENCE	FR
8	ASSOCIATION EUROPEENNE DES EXPOSITIONS SCIENTIFIQUES TECHNIQUES ET INDUSTRIELLES	BE
9	EUROGEO VZW	BE
10	DANMARKS TEKNISKE UNIVERSITET	DK
11	CIENCIA VIVA-AGENCIA NACIONAL PARA A CULTURA CIENTIFICA E TECNOLÓGICA	PT
12	CIIMAR - Centro Interdisciplinar de Investigação Marinha e Ambiental	PT
13	UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION -UNESCO	FR
14	HELLENIC CENTRE FOR MARINE RESEARCH	EL
15	COEXPLORATION LIMITED	UK
16	RESEAU OCEAN MONDIAL AISBL	BE
17	ASSOCIACIO SUBMON: DIVULGACIO, ESTUDI I CONSERVACIO DE L'ENTORN NATURAL	ES



## Sponges

*Deep-sea Sponge Grounds Ecosystems of the North Atlantic: an integrated approach towards their preservation and sustainable exploitation*

**Topic:** H2020-BG-2015-2

**Start Date:** 01/03/2016

**End Date:** 29/02/2020

**Duration:** 48 months

**EC Contribution:** 9,994,302.75 (euro)

**Consortium:** 19 participants

**Project Coordinator:** UNIVERSITETET I BERGEN

### Abstract:

The objective of SponGES is to develop an integrated ecosystem-based approach to preserve and sustainably use vulnerable sponge ecosystems of the North Atlantic. The SponGES consortium, an international and interdisciplinary collaboration of research institutions, environmental non-governmental and intergovernmental organizations, will focus on one of the most diverse, ecologically and biologically important and vulnerable marine ecosystems of the deep-sea - sponge grounds – that to date have received very little research and conservation attention. Our approach will address the scope and challenges of EC's Blue Growth Call by strengthening the knowledge base, improving innovation, predicting changes, and providing decision support tools for management and sustainable use of marine resources. SponGES will fill knowledge gaps on vulnerable sponge ecosystems and provide guidelines for their preservation and sustainable exploitation. North Atlantic deep-sea sponge grounds will be mapped and characterized, and a geographical information system on sponge grounds will be developed to determine drivers of past and present distribution. Diversity, biogeographic and connectivity patterns will be investigated through a genomic approach. Function of sponge ecosystems and the goods and services they provide, e.g. in habitat provision, benthic-pelagic coupling and biogeochemical cycling will be identified and quantified. This project will further unlock the potential of sponge grounds for innovative blue biotechnology namely towards drug discovery and tissue engineering. It will improve predictive capacities by quantifying threats related to fishing, climate change, and local disturbances. SponGES outputs will form the basis for modeling and predicting future ecosystem dynamics under environmental changes. SponGES will develop an adaptive ecosystem-based management plan that enables conservation and good governance of these marine resources on regional and international levels.



## Project's Partners List

### Sponges

Deep-sea Sponge Grounds Ecosystems of the North Atlantic: an integrated approach towards their preservation and sustainable exploitation

Project Partners	Name	Country
1	UNIVERSITETET I BERGEN	NO
2	FLORIDA ATLANTIC UNIVERSITY BOARD OF TRUSTEES	US
3	INSTITUTO ESPANOL DE OCEANOGRAFIA	ES
4	UPPSALA UNIVERSITET	SE
5	NATURAL HISTORY MUSEUM	UK
6	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES
7	UNIVERSITEIT VAN AMSTERDAM	NL
8	WAGENINGEN UNIVERSITY	NL
9	BANGOR UNIVERSITY	UK
10	UNIVERSITY OF BRISTOL	UK
11	UNIVERSIDADE DO MINHO	PT
12	IMAR- INSTITUTO DO MAR	PT
13	ECOLOGY ACTION CENTRE	CA
14	STICHTING NIOZ, KONINKLIJK NEDERLANDS INSTITUUT VOOR ONDERZOEK DER ZEE	NL
15	HELMHOLTZ ZENTRUM FUR OZEANFORSCHUNG KIEL	DE
16	UNIVERSITEIT UTRECHT	NL
17	STUDIO ASSOCIATO GAIA SNC DEI DOTTORI ANTONIO SARA E MARTINA MILANESE	IT
18	FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS FAO	IT
19	ALFRED-WEGENER-INSTITUT HELMHOLTZ- ZENTRUM FUER POLAR- UND MEERESFORSCHUNG	DE





## **VIVALDI**

### *Preventing and mitigating farmed bivalve diseases*

**Topic:** H2020-SFS-2015-2

**Start Date:** 01/03/2016

**End Date:** 29/02/2020

**Duration:** 48 months

**EC Contribution:** 4,503,082.50 (euro)

**Consortium:** 21 participants

**Project Coordinator:** INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER

#### **Abstract:**

The overarching goal of VIVALDI is to increase the sustainability and competitiveness of the European shellfish industry by improving the understanding of bivalve diseases and by developing innovative solutions and tools for the prevention, control and mitigation of the major pathogens affecting the main European farmed shellfish species: Pacific oyster (*Crassostrea gigas*), mussels (*Mytilus edulis* and *M. galloprovincialis*), European flat oyster (*Ostrea edulis*), clams (*Venerupis philipinarum*) and scallops (*Pecten maximus*). The project addresses the most harmful pathogens affecting either one or more of these shellfish species: the virus OsHV-1, *Vibrio* species including *V. aestuarianus*, *V. splendidus*, *V. harveyi* and *V. tapetis*, as well as the parasite *Bonamia ostreae*. The project is committed to provide practical solutions based on the most advanced knowledge. VIVALDI will dissect the disease mechanisms associated with pathogen virulence and pathogenesis and host immune responses, develop *in vivo* and *in vitro* models, and apply “omic” approaches that will help the development of diagnostic tools and drugs against pathogen targets, and breeding programmes in a collaborative effort with industrial partners. The proposal will include a global shellfish health approach, recognising that cultured bivalves are often exposed to several pathogens simultaneously, and that disease outbreaks can be due to the combined effect of two or more pathogens. The proposal will also investigate advantages and risks of the used of disease-resistant selected animals in order to improve consumer confidence and safety. VIVALDI will be both multi- and trans-disciplinary. In order to cover both basic and applied levels from molecules to farm, the proposal will integrate partners with a broad range of complementary expertises in pathology and animal health, epidemiology, immunology, molecular biology, genetics, genomics and food safety.



## Project's Partners List

**VIVALDI**

Preventing and mitigating farmed bivalve diseases

Project Partners	Name	Country
1	INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER	FR
2	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	FR
3	SYNDICAT DES SELECTIONNEURS AVICOLES ET AQUACOLES FRANCAIS	FR
4	LABOGENA DNA	FR
5	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES
6	INSTITUT DE RECERCA I TECNOLOGIA AGROALIMENTARIES	ES
7	UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK	IE
8	MARINE INSTITUTE	IE
9	NATIONAL UNIVERSITY OF IRELAND, GALWAY	IE
10	ATLANTIUM TECHNOLOGIES LTD	IL
11	UNIVERSITA DEGLI STUDI DI GENOVA	IT
12	UNIVERSITA DEGLI STUDI DI PADOVA	IT
13	UNIVERSITA DEGLI STUDI DI TRIESTE	IT
14	NOFIMA AS	NO
15	HAVFORSKNINGSINSTITUTTET	NO
16	STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK	NL
17	THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS	UK
18	THE QUEEN'S UNIVERSITY OF BELFAST	UK
19	ALFRED-WEGENER-INSTITUT HELMHOLTZ- ZENTRUM FUER POLAR- UND MEERESFORSCHUNG	DE
20	DANMARKS TEKNISKE UNIVERSITET	DK
21	THE UNIVERSITY OF LIVERPOOL	UK



## **EUROPEAN COMMISSION**

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Directorate F – Bioeconomy  
Unit F.4 – Marine Resources

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B-1049 Brussels

**Horizon 2020 website:** <https://ec.europa.eu/programmes/horizon2020/>

**Bioeconomy website:** <https://ec.europa.eu/research/bioeconomy>

