



European
Commission



THE ATLANTIC OUR SHARED RESOURCE

Making the Vision Reality

HORIZON 2020 Projects

"Implementing the Galway Statement"

Research and
Innovation

PALAIS D'EGMONT
BRUSSELS, BELGIUM



EUROPEAN COMMISSION

Director-General for Research and Innovation

European Commission

B-1049 Brussels



AORAC-SA

Atlantic Ocean Research Alliance Support Action

HORIZON 2020

At a glance

Acronym: AORAC-SA

Title: Atlantic Ocean Research Alliance Support Action

Call: H2020-BG-2014-2

Topic: BG-14-2014

Framework: H2020

Instrument: Coordination & support action

Start date: 01/03/2015

End date: 29/02/2020

Duration: 60 months

Total Cost: € 4,295,137.50

EC Contribution: € 3,447,000.00

Consortium: 9 partners

Project Coordinator: Marine Institute, Ireland

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 action is that it is flexible, responsive, inclusive, efficient, innovative, value-adding and supportive.

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. BG1Atlantic marine ecosystems, BG8 Atlantic Ocean observation and BG13 Ocean literacy) and on-going national and EU collaborative projects (e.g. FP7).

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.



Project's Participants List

AORAC-SA

Atlantic Ocean Research Alliance Support Action

Project's partners	Name	Country
1	MARINE INSTITUTE (MARINE INSTITUTE)	IE
2	INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA (ICES)	DK
3	INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER	FR
4	CONSORCIO PARA EL DISEÑO, CONSTRUCCIÓN, EQUIPAMIENTO Y EXPLOTACION DE LA PLATAFORMA OCEANICA DE CANARIAS (PLOCAN)	ES
5	CIENCIA VIVA-AGENCIA NACIONAL PARA A CULTURA CIENTIFICA E TECNOLÓGICA	PT
6	WOC - WORLD OCEAN LIMITED	UK
7	HAVFORSKNINGSINSTITUTTET	NO
8	THE ICELANDIC CENTRE FOR RESEARCH (RANNIS)	IS

International participation	Name	Country
1	MINISTERIO DA CIENCIA E TECNOLOGIA (MCTI)	BR
2	THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)	US
3	FISHERIES AND OCEANS CANADA (DFO)	CA

Third Parties Involved	Name	Country
1	INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION (IOC) OF UNESCO	FR
2	JOINT PROGRAMMING INITIATIVE HEALTHY AND PRODUCTIVE SEAS AND OCEANS (JPI OCEANS)	BE



AquaSpace

Ecosystem Approach to making Space for Aquaculture

HORIZON 2020

At a glance

Acronym: AquaSpace

Title: Ecosystem Approach to making Space for Aquaculture

Call: H2020-SFS-2014-2

Topic: SFS-11a-2014

Framework: H2020

Instrument: Research and Innovation action

Start date: 01/03/2015

End date: 28/02/2018

Duration: 36 months

Total Cost: € 3,198,914.00

EC Contribution: € 3,198,914.00

Consortium: 22 partners

Project Coordinator: The Scottish Association For Marinescience LBG (SAMS), United Kingdom

Abstract

The central goal of the AquaSpace project is to provide increased space of high water quality for aquaculture by adopting the Ecosystem Approach to Aquaculture (EAA) and Marine Spatial Planning (MSP) and so to deliver food security and increased employment opportunities through economic growth. MSP is strategic, forward-looking planning for regulating, managing and protecting the marine environment, including through allocation of space that addresses the multiple, cumulative, and potentially conflicting uses of the sea. The three pillars of EAA are ecological sustainability, social equity, and harmonization of multiple uses. We will achieve this goal 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 Professional Development 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 Participants List

AquaSpace Ecosystem Approach to making Space for Aquaculture

Project's partners	Name	Country
1	THE SCOTTISH ASSOCIATION FOR MARINESCIENCE LBG (SAMS)	UK
2	AGRIFOOD AND BIOSCIENCES INSTITUTE (AFBI)	UK
3	FUNDACION AZTI - AZTI FUNDAZIOA (AZTI-TECNALIA)	ES
4	BLUEFARM SRL (BLUEFARM)	IT
5	CHRISTIAN MICHELSEN RESEARCH AS (CMR)	NO
6	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC)	ES
7	FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS FAO (FAO)	IT
8	NEMZETI AGRARKUTATASI ES INNOVACIOSKOZPONT (NARIC)	HU
9	INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER (IFREMER)	FR
10	HAVFORSKNINGSINSTITUTTET (IMR)	NO
11	THE JAMES HUTTON INSTITUTE (JHI)	UK
12	LONGLINE ENVIRONMENT LTD (LLE)	UK
13	MARINE SCOTLAND (MSS)	UK
14	SAGREMARISCO-VIVEIROS DE MARISCO LDA (SGM)	PT
15	JOHANN HEINRICH VON THUENEN-INSTITUT, BUNDESFORSCHUNGSINSTITUT FUER LAENDLICHE RAEUME, WALD UND FISCHEREI (TI-SF)	DE
16	UNIVERSITY COLLEGE CORK, NATIONAL UNIVERSITY OF IRELAND (UCC)	IE
17	PANEPISTIMIO KRITIS (UNIVERSITY OF CRETE) (UOC)	EL
18	BIHARUGRAI HALGAZDASAG MEZOGAZDASAGI TERMELO ERTEKESITO ES TERMESZETVEDELMI KFT (BHG)	HU

International participation	Name	Country
1	DALHOUSIE UNIVERSITY (DAL)	CA
2	YELLOW SEA FISHERIES RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCES (YSFRI)	CN
3	THE UNIVERSITY OF WESTERN AUSTRALIA (UWA)	AU
4	THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)	US



AtlantOS

Optimizing and Enhancing the Integrated Atlantic Ocean Observing System

HORIZON 2020

At a glance

Acronym: AtlantOS

Title: Optimizing and Enhancing the
Integrated Atlantic Ocean Observing System

Call: H2020-BG-2014-2

Topic: BG-08-2014

Framework: H2020

Instrument: Research and Innovation action

Start date: 01/04/2015

End date: 30/06/2019

Duration: 51 months

Total Cost: € 20,652,921.00

EC Contribution: € 20,652,921.00

Consortium: 62 partners

Project Coordinator: Helmholtz Zentrum Fur
Ozeanforschung Kiel (GEOMAR), Germany

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, Brazil, South Africa and others from the Atlantic region. Finally, AtlantOS will promote a structured dialogue with national and regional funding bodies, including the European Commission, USA, Canada and other countries to ensure sustainability and adequate growth of integrated Atlantic Ocean Observing.



Project's Participants List

AtlantOS

*Optimizing and Enhancing the
Integrated Atlantic Ocean Observing
System*

Project's partners	Name	Country
1	HELMHOLTZ ZENTRUM FUR OZEANFORSCHUNG KIEL (GEOMAR)	DE
2	NATURAL ENVIRONMENT RESEARCH COUNCIL (NERC)	UK
3	MARINE INSTITUTE (MI)	IE
4	UNIVERSITAET BREMEN (UNI-HB)	DE
5	DANMARKS METEOROLOGISKE INSTITUT (DMI)	DK
6	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)	FR
7	UNIVERSITE PIERRE ET MARIE CURIE - PARIS 6 (UPMC)	FR
8	KONSORTIUM DEUTSCHE MEERESFORSCHUNG e.V. (KDM)	DE
9	INSTYTUT OCEANOLOGII POLSKIEJ AKADEMII NAUK (IO PAN)	PL
10	UNIVERSITETET I BERGEN (UiB)	NO
11	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES
12	CONSORCIO PARA EL DISENO, CONSTRUCCION, EQUIPAMIENTO Y EXPLOTACION DE LA PLATAFORMA OCEANICA DE CANARIAS (PLOCAN)	ES
13	SIR ALISTER HARDY FOUNDATION FOR OCEAN SCIENCE (SAHFOS)	UK
14	DANMARKS TEKNISKE UNIVERSITET (DTU)	DK
15	THE SCOTTISH ASSOCIATION FOR MARINESCIENCE LBG (SAMS)	UK
16	IMAR- INSTITUTO DO MAR (IMAR)	PT
17	STICHTING NIOZ, KONINKLIJK NEDERLANDS INSTITUUT VOOR ONDERZOEK DER ZEE (NIOZ)	NL
18	MET OFFICE (MET O)	UK
19	ALFRED-WEGENER-INSTITUT HELMHOLTZ- ZENTRUM FUER POLARUND MEERESFORSCHUNG (AWI)	DE
20	THE UNIVERSITY OF EXETER (UNEXE)	UK
21	INSTITUT DE RECHERCHE POUR LE DEVELOPPEMENT (IRD)	FR
22	EUMETNET GROUPEMENT D'INTERET ECONOMIQUE (EUMETNET)	BE
23	COLLECTE LOCALISATION SATELLITES SA (CLS)	FR
24	CENTRO EURO-MEDITERRANEO SUI CAMBIAMENTI CLIMATICI SCARL	IT
25	VLAAMS INSTITUUT VOOR DE ZEE VZW (VLIZ)	BE
26	CIIMAR - Centro Interdisciplinar de Investigaçao Marinha e Ambiental (CIIMAR)	PT
27	IEEE FRANCE SECTION (IEEE)	FR



Project's Participants List

AtlantOS

Optimizing and Enhancing the Integrated Atlantic Ocean Observing System

Project's partners	Name	Country
28	FONDATION EUROPEENNE DE LA SCIENCE (EMB-ESF)	FR
29	UNIVERSITY OF PLYMOUTH (UOP)	UK
30	UNIVERSIDADE DO ALGARVE (UALG)	PT
31	INSTITUTO ESPANOL DE OCEANOGRAFIA (IEO)	ES
32	INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER (IFREMER)	FR
33	MERCATOR OCEAN (MERCATOR)	FR
34	ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA (UNIBO)	IT
35	EURO-ARGO ERIC (EURO-ARGO ERIC)	FR
36	EUROGOOS AISBL (EUROGOOS AISBL)	BE
37	EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS (ECMWF)	UK
38	PLYMOUTH MARINE LABORATORY (PML)	UK
39	DAITHI O'MURCHU MARINE RESEARCH STATION LTD (DOMMRS)	IE
40	SEASCAPE CONSULTANTS LTD (SEASCAPE)	UK
41	BRUNCIN (BRUNCIN)	HR
42	RIBOCON GMBH (RIBOCON)	DE
43	DEVELOGIC GMBH (DSS)	DE
44	NKE INSTRUMENTATION SARL (NKE)	FR
45	CONTROS SYSTEMS & SOLUTIONS GMBH (CONTROS)	DE
46	ACRI-ST SAS (ACRI-ST)	FR
47	T.E. LABORATORIES LIMITED (TELABS)	IE
48	ETT SPA (ETT SPA)	IT
49	MARIENE INFORMATIE SERVICE MARIS BV (MARIS)	NL
50	BLUE LOBSTER IT LIMITED (BLIT)	UK
51	CLU SRL (CLU SRL) SRL	IT
52	MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V. (MPG)	DE
53	INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA (ICES)	DK
54	HAVFORSKNINGSINSTITUTTET (IMR)	NO
55	NORSK INSTITUTT FOR VANNFORSKNING (NIVA)	NO
56	HAVSTOVAN (HAV)	FO
57	UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION - UNESCO (UNESCO)	FR



Project's Participants List

AtlantOS

Optimizing and Enhancing the Integrated Atlantic Ocean Observing System

International participation	Name	Country
1	DALHOUSIE UNIVERSITY (DAL)	CA
2	MEOPAR INCORPORATED (MEOPAR)	CA
3	MINISTERIO DA CIENCIA E TECNOLOGIA (MCTI)	BR
4	WOODS HOLE OCEANOGRAPHIC INSTITUTION (WHOI)	US
5	COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH (CSIR)	SA
6	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)	US

Third Parties Involved	Name	Country
1	ÉCOLE NORMALE SUPERIEURE (ENS) PARIS	FR
2	UNIVERSIDAD DE LAS PALMAS DE GRAN CANARIA (ULPGC)	ES
3	METEO-FRANCE	FR
4	UNIVERSITY OF HAMBURG (UHAM)	DE
5	MARINE SCOTLAND SCIENCE (MSS)	UK
6	UNI RESEARCH AS (UniRES)	NO
7	MARINE RESEARCH INSTITUTE (MRI)	IS



DiscardLess

Strategies for the gradual elimination of discards in European fisheries

Abstract

The European Union has committed to the gradual elimination of the discarding of unwanted catches in European fisheries. DiscardLess will help provide the knowledge, tools and technologies as well as the involvement of the stakeholders to achieve this goal. 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 fishing 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 valorisation components.

DiscardLess will evaluate the impacts of discarding on the marine environment, on the economy, and the fisheries communities 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.

DiscardLess will describe the changes in management and the associated governance structures needed to cement the process. 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.

HORIZON 2020

At a glance

Acronym: DiscardLess

Title: Strategies for the gradual elimination of discards in European fisheries

Call: H2020-SFS-2014-2

Topic: SFS-09-2014

Framework: H2020

Instrument: Research and Innovation action

Start date: 01/03/2015

End date: 28/02/2019

Duration: 48 months

Total Cost: € 5.551.125,25

EC Contribution: € 5.000.000,00

Consortium: 31 partners

Project Coordinator: Danmarks Tekniske Universitet, Denmark



Project's Participants List

DiscardLess Strategies for the gradual elimination of discards in European fisheries

Project's 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

International participation	Name	Country
1	MEMORIAL UNIVERSITY OF NEWFOUNDLAND	CA



EU-PolarNet

Connecting Science with Society

HORIZON 2020

At a glance

Acronym: EU-PolarNet

Title: Connecting Science with Society

Call: H2020-BG-2014-1

Topic: BG-15-2014

Framework: H2020

Instrument: Coordination & support action

Start date: 01/03/2015

End date: 29/02/2020

Duration: 60 months

Total Cost: € 2.174.503,75

EC Contribution: € 2.174.503,25

Consortium: 22 partners

Project Coordinator: Alfred-Wegener-Institut Helmholtz- Zentrum fuer Polar- Und Meeresforschung, Germany

Abstract

The rapid changes occurring in the Polar Regions are significantly influencing global climate with consequences for global society. EU-PolarNet will develop a joint European research plan to make optimal use of European and Trans-Atlantic expertise and infrastructure.

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 Participants List

EU-PolarNet

Connecting Science with Society

Project's partners	Name	Country
1	ALFRED-WEGENER-INSTITUT HELMHOLTZ- ZENTRUM FUER POLAR- UND MEERESFORSCHUNG	DE
2	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	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 TERRITORIO 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	UNIVERSITAET 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

International participation	Name	Country
1	GRONLANDS NATURINSTITUT	GL



HORIZON 2020

At a glance

Acronym: INMARE

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

Call: H2020-BG-2014-2

Topic: BG-04-2014

Framework: H2020

Instrument: Innovation action

Start date: 01/04/2015

End date: 31/03/2019

Duration: 48 months

Total Cost: € 7.396.689,65

EC Contribution: € 5.999.557,13

Consortium: 24 partners

Project Coordinator: Bangor University,
United Kingdom

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

Abstract

It is widely appreciated that biological resources from the marine environment represent a largely untapped potential for industrial enzymes. However, today only a very small fraction of marine enzymes have made it to industrial biocatalysis and commercialisation stage. The collaborative research project INMARE aims to address this by streamlining and shortening the pathways from discovery of new marine enzymes and bioactive compounds towards the development and commercialisation of industrial applications for targeted production of fine chemicals, drugs and in environmental clean-up.

INMARE stands for “Industrial Applications of Marine Enzymes: Innovative screening and expression platforms to discover and use the functional protein diversity from the sea” and brings together multidisciplinary expertise and facilities of academic and industry partners. 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 an impressive track record in environmental clean-up technologies and are committed to promoting public understanding, awareness and dissemination of scientific research. To reach its objectives, the project will integrate following core activities: advanced technologies to access and sample unique marine biodiversity hotspots; 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. While the project does not have a specific trans-Atlantic focus, marine genetic resources will be drawn among others from unique environments in the Atlantic (notably the Porcupine Bank in North Atlantic). Moreover, one of the global top contributors of protein structural data, the Faculty of Chemical Engineering from the University of Toronto (Canada), is one of the key partners involved in research activities across the INMARE project (via in kind contributions without EC funding). Finally, the international CLIB2021 cluster of companies and universities (including from Brazil, Canada and the US) will be playing an important role in disseminating the results of INMARE even broader across the Atlantic.



INMARE

Project's Participants List

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

Project's 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 TECHNOLOGY SERVICES GMBH	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 GGMBH	DE
12	PHARMAMAR, S.A.U.	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	SEASCAPE CONSULTANTS LTD	UK
22	UNI RESEARCH AS	NO
23	UNIVERSITA DEGLI STUDI DI MILANO	IT

International participation	Name	Country
1	THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO	CA



HORIZON 2020

At a glance

Acronym: PrimeFish

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

Call: H2020-BG-2014-2

Topic: BG-10-2014

Framework: H2020

Instrument: Research and Innovation action

Start date: 01/03/2015

End date: 28/02/2019

Duration: 48 months

Total Cost: € 5.275.426,25

EC Contribution: € 4.997.912,50

Consortium: 16 partners

Project Coordinator: MATIS OHF, Iceland

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

Abstract

Two thirds of seafood consumed in EU is imported from third countries. Although capture fisheries in Europe have declined, the aquaculture sector has not grown to meet the increased demand for seafood. Seafood producers in Europe are in fierce competition with imports; prices of seafood products fluctuate and destabilise markets; unsuitable regulations influence the competitiveness of seafood producers; some producers are unable to meet the demands and expectations of consumers and many new fish products fail on markets. These and other challenges affecting the economic sustainability of European seafood producers are addressed in PrimeFish, a four year Horizon 2020 funded research project with 14 participants from Europe. For comparative investigation outside Europe, PrimeFish has participants from Vietnam and Canada. To improve economic sustainability and competitiveness, information will be gathered and analysed to generate new knowledge and insights into the performance of European/Canadian fisheries and aquaculture sectors on local, European and international markets.

The outcome of the project will be models that can be used to compare competitiveness and to predict possible “boom and bust” price cycles, for strategic positioning within the value chain, on success analysis for new products and for innovation and price analysis for specific species. PrimeFish will assess the non-market value associated with aquaculture and captured fisheries as well as the effectiveness of regulatory systems and thereby provide a basis for improved societal decision making in the future. The implementation of the simulation and prediction models into a web-based market intelligence toolbox for seafood operators and policymakers is one of the key concepts of the project. The toolbox will provide peer comparison to both fishermen, aquaculture producers and processing companies (on a supply-chain level) and to public stakeholders on a country or species level. The toolbox should also support producers in product development and in spotting market needs. By improving strategic decision making for industry players and policymakers the long term economic sustainability of EU fisheries and aquaculture sectors will be enhanced. As there is a lack of appropriate production and socio-economic data, the project will gather data not only on aggregate level obtained from publically available sources, but also from individual production companies, industry organisations, sales organisations and marketing channels. To facilitate data access for the specific case studies and to create added value, PrimeFish has a large industry reference group within Europe and Canada. PrimeFish is the ideal platform for strengthening the Trans-Atlantic alliance between EU and Canada by providing comparative studies and benchmarking on economic viability and competitiveness of the fisheries and aquaculture sectors across the Atlantic.



PrimeFish

Project's Participants List

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

Project's 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 DE SAVOIE	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

International participation	Name	Country
1	TRUONG DAI HOC NHA TRANG	VN
2	MEMORIAL UNIVERSITY OF NEWFOUNDLAND	CA



Respon-Sea-ble

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

HORIZON 2020

At a glance

Acronym: Respon-Sea-ble

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

Call: H2020-BG-2014-1

Topic: BG-13-2014

Framework: H2020

Instrument: Coordination & support action

Start date: 01/04/2015

End date: 31/03/2019

Duration: 48 months

Total Cost: € 3.696.644,00

EC Contribution: € 3.696.644,00

Consortium: 15 partners

Project Coordinator: ACTEON SARL, France

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-based 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 Participants 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's 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

International participation	Name	Country
1	DUKE UNIVERSITY	US
2	MEMORIAL UNIVERSITY OF NEWFOUNDLAND	CA
3	INSTITUT DES SCIENCES DE LA MER, UNIVERSITE DU QUEBEC	UQAR - CA



HORIZON 2020

At a glance

Acronym: Sea Change

Title: SeaChange

Call: H2020-BG-2014-1

Topic: BG-13-2014

Framework: H2020

Instrument: Coordination & support action

Start date: 01/03/2015

End date: 28/02/2018

Duration: 36 months

Total Cost: € 3,494,876.00

EC Contribution: € 3,494,876.00

Consortium: 17 partners and 4 IAG partners

Project Coordinator: Marine Biological Association Of The United Kingdom, United Kingdom

Abstract

Sea Change project seeks 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.

Sea Change is working with partners and advice from across the Atlantic in North America.

Key objectives of Sea Change are to:

- Compile an in-depth review of the links between Seas and Ocean and Human health;
- 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;
- 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.

Sea Change includes a mobilisation phase engaging with citizens, formal education and policy actors.



Project's Participants List

SeaChange

Project's 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	EUROPEAN ASSOCIATION OF GEOGRAPHERS	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

International Participation	Name	Country
1	NATIONAL MARINE SCIENCES EDUCATION ASSOCIATION	US
2	CENTERS FOR OCEAN SCIENCES EDUCATION EXCELLENCE	US
3	THE CANADIAN NETWORK FOR OCEAN EDUCATION	CA
4	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	US



DISCLAIMER

Neither the European Commission nor any person acting on behalf of the Commission is responsible for the use which might be made of the following information.

More information on the European Union is available on the Internet (<http://europa.eu>).



THE ATLANTIC OUR SHARED RESOURCE

Making the Vision Reality