European Commission

HORIZON 2020 Projects

Societal Challenge 2

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

2014

Research and Innovation

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CALL FOR SUSTAINABLE FOOD SECURITY

AQUASPACE

Ecosystem Approach to making Space for Aquaculture

AT A GLANCE

Acronym: AquaSpace

Call: H2020-SFS-2014-2

Topic: SFS-11a-2014

Start date: 01/03/2015

End date: 01/03/2018

Duration: 36 months

Total Cost: € 3.625.581,25

EC Contribution: € 2.989.814,50

Consortium: 21 partners

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

PARTICIPANTS LIST

- *THE SCOTTISH ASSOCIATION FOR MARINESCIENCE LBG*
- *THE UNIVERSITY OF WESTERN AUSTRALIA*
- *DALHOUSIE UNIVERSITY*
- *YELLOW SEA FISHERIES RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCES*
- *JOHANN HEINRICH VON THUENEN-INSTITUT, BUNDESFORSCHUNGSINSTITUT FUER LAENDLICHE RAEUME, WALD UND FISCHEREI*
- *PANEPISTIMIO KRITIS (UNIVERSITY OF CRETE)*
- *AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS*
- *FUNDACION AZTI - AZTI FUNDAZIOA*
- *INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER*
- *BIHARUGRAI HALGAZDASAG MEZOGAZDASAGI TERMELO ERTEKESITO ES TERMESZETVEDELMI KFT*
- *NEMZETI AGRARKUTATASI ES INNOVACIOSKOZPONT*
- *UNIVERSITY COLLEGE CORK, NATIONAL UNIVERSITY OF IRELAND, CORK*
- *BLUEFARM SRL*
- *FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS FAO*
- *CHRISTIAN MICHELSEN RESEARCH AS*
- *HAVFORSKNINGSINSTITUTTET*
- *SAGREMARISCO-VIVEIROS DE MARISCO LDA*
- *AGRIFOOD AND BIOSCIENCES INSTITUTE*
- *LONGLINE ENVIRONMENT LTD*
- *MARINE SCOTLAND*
- *THE JAMES HUTTON INSTITUTE*

THIRD PARTIES (INTERNATIONAL PARTICIPATION AND ADVISORY GROUPS)

- *DALHOUSIE UNIVERSITY (DAL)*
- *YELLOW SEA FISHERIES RESEARCH INSTITUTE, CHINESE ACADEMY OF FISHERY SCIENCES (YSFRI)*
- *THE UNIVERSITY OF WESTERN AUSTRALIA (UWA)*
- *THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)*

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 harmonisation 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.

READ MORE:

http://cordis.europa.eu/project/rcn/193235_en.html
http://www.aquaspace-h2020.eu/

DISCARDLESS

Strategies for the gradual elimination of discards in European fisheries

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 the current use of gear 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.

DiscardLess will detail technical and marketing innovations from the deck, through the supply chain to the final market, including monitoring, traceability and valorization components.

The project will evaluate the impacts of discarding on the marine environment, on the economy, and across the wider society and 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 the project will also evaluate stakeholders' perception of discards. 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.

The project will also disseminate its outcome and maximize knowledgetransfer across Europe through an educational environment – teaching the next generation.

READ MORE:

http://cordis.europa.eu/project/rcn/193250_en.html

AT A GLANCE

Acronym: DiscardLess

Call: H2020-SFS-2014-2

Topic: SFS-09-2014

Start date: 01/03/2015

End date: 01/03/2019

Duration: 48 months

Total Cost: € 5.551.125,25

EC Contribution: € 5.000.000,00

Consortium: 31 partners

Project Coordinator: Danmarks Tekniske Universitet, Danmark

PARTICIPANTS LIST

- *DANMARKS TEKNISKE UNIVERSITET*
- *FISHFIX*
- *NUTRITION SCIENCES NV*
- *MEMORIAL UNIVERSITY OF NEWFOUNDLAND*
- *ALPHAFILM & KOMMUNIKATION APS*
- *KOBENHAVNS UNIVERSITET*
- *IOANNA N.ARGYROU SIMBOULOI EPICHEIR ISIAKIS ANAPTYXIS ETAIREIA PERIORISMENIS EYTHYNIS*
- *BARNA SA*
- *FUNDACION AZTI - AZTI FUNDAZIOA*
- *INSTITUTO ESPANOL DE OCEANOGRAFIA*
- *SIMRAD SPAIN SLU*
- *AQUIMER*
- *INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER*
- *INSTITUT SUPERIEUR DES SCIENCES AGRONOMIQUES, AGROALIMENTAIRES, HORTICOLES ET DU PAYSAGE*
- *UNIVERSITE DE BRETAGNE OCCIDENTALE*
- *IRISH OBSERVER NETWORK LIMITED*
- *MARINE INSTITUTE*
- *HAMPIDJAN HF*
- *MAREL HF*
- *MATIS OHF*
- *FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS FAO*
- *UNIVERSITETET I BERGEN*
- *UNIVERSITETET I TROMSOE*
- *SHIPCON SP ZOO*
- *IMAR- INSTITUTO DO MAR*
- *MARINE SCOTLAND*
- *SAFETYNET TECHNOLOGIES LIMITED*
- *SEA FISH INDUSTRY AUTHORITY*
- *THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS*
- *TRACE WILDLIFE FORENSICS NETWORK LIMITED*
- *UNIVERSITY OF STRATHCLYDE*

DIVERSIFOOD

Embedding crop diversity and networking for local high quality food systems

AT A GLANCE

Acronym: DIVERSIFOOD

Call: H2020-SFS-2014-2

Topic: SFS-07a-2014

Start date: 01/03/2015

End date: 01/03/2019

Duration: 48 months

Total Cost: € 4.009.851,25

EC Contribution: € 3.429.908,75

Consortium: 21 partners

Project Coordinator: Institut National De La Recherche Agronomique, France

DIVERSIFOOD will evaluate and enrich the diversity of cultivated plants within diverse agro-ecosystems so as to increase their performance, resilience and quality.

The project will help re-discovering genetic resources of a dozen underutilized and forgotten plant species for organic and low-input agriculture or marginal/specific conditions.

Through multi-actors, trans-disciplinary approaches and relevant cases, DIVERSIFOOD aims to develop:

- relevant innovations locally developed
- new biodiversity management models
- new approaches to plant breeding and management
- new crops, diverse varieties or populations
- diverse healthy and tasty food products and market valorisation
- original experimental and communication tools to connect activities and people.

DIVERSIFOOD will help to facilitate cooperation between participatory research networks, professional breeders and policy makers in connecting formal and informal seed systems in Europe in relation to international negotiations on farmers' rights.

Key-lessons based on the diverse experiences of partners will be shared to support on-farm seed production networks to guarantee high quality seed.

DIVERSIFOOD will demonstrate the socio-economic value of on-farm seed systems, help at local policy levels to increase food and environmental awareness, to embed healthy and tasty local products in regional food chains. DIVERSIFOOD develops concepts and practices to support the spreading of a new culture of food based on biodiversity and sustainable agriculture.

READ MORE:

http://cordis.europa.eu/project/rcn/193244_en.html

PARTICIPANTS LIST

- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *ARCHE NOAH SCHAUGARTEN GMBH*
- *FORSCHUNGSINSTITUT FUR BIOLOGISCHENLANDBAU STIFTUNG*
- *PROSPECIERARA*
- *MINISTRY OF AGRICULTURE, NATURAL RESOURCES AND ENVIRONMENT OF CYPRUS*
- *AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS*
- *ASOCIACION RED ANDALUZA DE SEMILLAS CULTIVANDO BIODIVERSIDAD*
- *LUONNONVARAKESKUS*
- *INRA TRANSFERT S.A.*
- *INSTITUT TECHNIQUE DE L AGRICULTURE BIOLOGIQUE*
- *RESEAU SEMENCES PAYSANNES - ASSOCIATION POUR LA BIODIVERSITE DES SEMENCES ET PLANTS DANS LES FERMES*
- *OKOLOGIAI MEZOGAZDASAGI KUTATOINTEZET KOZHASZNU NONPROFIT KFT*
- *ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA*
- *FORMICABLU SRL*
- *RETE SEMI RURALI*
- *UNIVERSITA DI PISA*
- *LOUIS BOLK INSTITUUT*
- *OIKOS - OKOLOGISK NORGE*
- *INSTITUTO DE TECNOLOGIA QUIMICA E BIOLOGICA - UNIVERSIDADE NOVA DE LISBOA*
- *INSTITUTO POLITECNICO DE COIMBRA*
- *PROGRESSIVE FARMING TRUST LTD LBG*

ECOPROLIVE

Eco-friendly processing system for the full exploitation of the OLIVE health potential in products of added value

The EcoPROLIVE project proposes a new process to obtain olive oil without generating wastewater or waste products.

Instead, the olive is fully utilized for producing valuable olive oils of tailored composition in active compounds (phenols, antioxidants, fatty acids, squalene), and fibre ingredients rich in antioxidants, which will be included in bakery products (breads and biscuits).

Part of the process has already been patented, and further developments are now proposed to improve the quality of the products and the environmental friendliness. These are supercritical fluid extraction (SFE) with CO2, and pulsed electric field (PEF) technology, which are green technologies that can improve the performance and extraction yields of the process.

There are several goals to achieve in the EcoPROLIVE project:

- to demonstrate it is a feasible process, both technically and economically, besides evaluating the environmental positive impact
- to ensure market success of the novel products and the new process of production
- to optimize and validate the process and related technology at larger scales of operation (pilot and preindustrial plant)
- to monetize the new developments in scalable markets through replication in different scales and countries. Countries to start with are the main olive oil producers in Europe, which are represented in the consortium of the project (Spain, Italy, Greece, Portugal).

In conclusion, the EcoPROLIVE project proposes a sustainable and innovative process to obtain olive oil and other olive-derived products that will result in a global economical and environmental impact and improvement in the olive oil sector competitiveness.

READ MORE:

http://cordis.europa.eu/project/rcn/193341_en.html

AT A GLANCE

Acronym: EcoPROLIVE
Call: H2020-SFS-2014-2
Topic: SFS-17-2014
Start date: 01/09/2015
End date: 01/09/2017
Duration: 24 months
Total Cost: € 2.417.775,00
EC Contribution: € 1.999.500,00
Consortium: 9 partners
Project Coordinator: Contactica S.L., Spain

PARTICIPANTS LIST

- *CONTACTICA S.L.*
- *EVANGELOS MIHOPOULOS & SIA OE*
- *INGENIERIA PARA EL DESARROLLO TECNOLOGICO SL*
- *ISANATUR SPAIN SL*
- *UNIVERSIDAD AUTONOMA DE MADRID*
- *UNIVERSIDAD DE ZARAGOZA*
- *ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA*
- *PROMETEO SRL*
- *CENTRO PARA A VALORIZACAO DE RESIDUOS ASSOCIACAO*

EMPHASIS

Effective Management of Pests and Harmful Alien Species – Integrated Solutions

AT A GLANCE

Acronym: EMPHASIS

Call: H2020-SFS-2014-2

Topic: SFS-03a-2014

Start date: 01/03/2015

End date: 01/03/2019

Duration: 48 months

Total Cost: € 6.636.038,75

EC Contribution: € 6.526.038,51

Consortium: 23 partners

Project Coordinator: Universita Degli Studi Di Torino, Italy

EMPHASIS is a Research and Innovation Action addressing native and alien pests' threats (insect pests, pathogens, weeds) for a range of natural ecosystems and farming systems. It aims to ensure a European food security system and the protection of biodiversity and of ecosystems services, while developing integrated mechanisms of response measures. Its specific objectives include:

- Predict, Prioritize and Planning. To evaluate IPM challenges and opportunities;
- Prevent. To provide practical solutions for surveillance and monitoring tools to enhance early preparedness;
- Protect. To develop practical solutions and integrated response measures for effective control and containment of pests threats, and to assess and demonstrate their technical and economic feasibility while ensuring their market uptake;
- Promote. To disseminate results and to engage with the community at large to maximize the project impact and raise awareness about plant health and resilience for sustainable agriculture, food security and environmental protection.

A cross-cutting approach is adopted to strengthen connectivity between agricultural research and other stakeholders.

On-farm testing and learning activities facilitate co-design, co-development and co-implementation. A multi-method approach is adopted to design IPM methods for key systems with portability to other similar systems, enhancing its impact. The Consortium is made of 21 partners, with ten enterprises, of which nine SMEs, from ten countries.

READ MORE:

http://cordis.europa.eu/project/rcn/193276_en.html
http://www.emphasisproject.eu/

PARTICIPANTS LIST

- *UNIVERSITA DEGLI STUDI DI TORINO*
- *MOVERIM CONSULTING SPRL*
- *SEMIOSBIO TECHNOLOGIES INC*
- *MENDELOVA UNIVERZITA V BRNE*
- *AGROBIO SL*
- *UNIVERSIDAD DE LLEIDA*
- *EUROPEAN AND MEDITERRANEAN PLANT PROTECTION ORGANISATION*
- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE -REC*
- *AGRINEWTECH SRL*
- *CONFEDERAZIONE GENERALE DELL'AGRICOLTURA ITALIANA*
- *METEC INNOVATION CONSULTING SRL*
- *SPIN-TO SRL*
- *INTEGRETAS AUDZESANAS SKOLA*
- *CHATIM*
- *DE VOOGD WILLEM BAREND*
- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *AGRA CEAS CONSULTING LTD*
- *IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE*
- *NATIONAL INSTITUTE OF AGRICULTURAL BOTANY*
- *OPTISENSE LIMITED*
- *THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS*

THIRD PARTIES

- *INSTITUT DE RECERCA I TECNOLOGIA AGROALIMENTARIES*

EUCLID

EU-CHINA Lever for IPM Demonstration

More sustainable pest management methods are needed to reduce negative effects of chemical pesticides on human health and the environment.

EUCLID aims to deliver simultaneous optimisation of various pest management methods and the development of several new ones, and to promote their rapid adoption through designing IPM packages and exploitation by end-users.

This would reduce the dependence of EU and Chinese farmers on pesticides in selected farming systems in both regions.

The main objectives of the project are:

- to optimise existing management methods for key agricultural pests and evaluate them against end-users expectations;
- to develop novel protection methods taking into account farmers' and agricultural businesses priorities, consumers preferences, and legislation related issues;
- to assess the innovative candidate pest management and newly designed IPM methods under commercial fields in terms of reduced dependence on pesticides, agronomic performances, socio-economic impact and environmental footprint;
- to disseminate knowledge to key stakeholders, create a participatory framework that will ensure a permanent dialogue between researchers, extension specialists and end-users, as well as providing support to policy implementation.

The crops considered (tomatoes, grapes, leafy vegetables) are based on their economic importance for both EU and Chinese markets, and on the fact that they encompass a diversity of production systems.

The methods developed within EUCLID framework would be used as models for developing similar actions for other crops.

The consortium includes 19 EU and Chinese partners and integrates, from the beginning, the main end-users of the project's results in the research process (farmers associations, SMEs, economists, experts in policy). The consortium also has a good coverage of both EU and Chinese experts, in order to take advantage of the experience of each region and to more efficiently adapt the pest management solutions to the specific problems of EU and Chinese farmers.

READ MORE:

http://cordis.europa.eu/project/rcn/193267_en.html

AT A GLANCE

Acronym: EUCLID

Call: H2020-SFS-2014-2

Topic: SFS-03b-2014

Start date: 15/09/2015

End date: 15/09/2019

Duration: 48 months

Total Cost: € 4.088.722,37

EC Contribution: € 3.000.000,00

Consortium: 20 partners

Project Coordinator: Institut National De La Recherche Agronomique, France

PARTICIPANTS LIST

- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *UNIVERSITEIT GENT*
- *BEIJING NUOYA AGRICULTURE DEVELOPMENT CO. LTD*
- *CARREFOUR (CHINA) MANAGEMENT & CONSULTING SERVICE CO, LTD*
- *INSTITUTE OF PLANT PROTECTION CHINESE ACADEMY OF AGRICULTURE SCIENCES*
- *ZHEJIANG UNIVERSITY*
- *AGROBIO SL*
- *INSTITUT DE RECERCA I TECNOLOGIA AGROALIMENTARIES*
- *UNIVERSIDAD DE LLEIDA*
- *ASSOCIATION DE COORDINATION TECHNIQUE AGRICOLE*
- *INRA TRANSFERT S.A.*
- *INTERDIS*
- *AGRINEWTECH SRL*
- *UNIVERSITA DEGLI STUDI DI TORINO*
- *VENICE INTERNATIONAL UNIVERSITY*
- *BINAB BIO-INNOVATION AB*
- *IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE*
- *OXITEC LIMITED*

THIRD PARTIES

- *CENTRE TECHNIQUE INTERPROFESSIONNEL DES FRUITS ET LEGUMES*
- *INSTITUT FRANCAIS DE LA VIGNE ET DU VIN*

EUROMIX

EuroMix

AT A GLANCE

Acronym: EuroMix

Call: H2020-SFS-2014-2

Topic: SFS-12-2014

Start date: 15/05/2015

End date: 15/05/2019

Duration: 48 months

Total Cost: € 8.821.295,56

EC Contribution: € 7.999.097,00

Consortium: 26 partners

Project Coordinator: Rijksinstituut Voor Volksgezondheid en Milieu (National Institute for Public Health and the Environment), The Netherlands

PARTICIPANTS LIST

- *RIJKSINSTITUUT VOOR VOLKSGEZONDHEIDEN MILIEU (NATIONAL INSTITUTE FOR PUBLIC HEALTH AND THE ENVIRONMENT)*
- *EUROPEAN FRESH PRODUCE ASSOCIATION AISBL*
- *UNIVERSITEIT GENT*
- *EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH*
- *MINISTRY OF HEALTH OF THE REPUBLIC OF CYPRUS*
- *STATNI ZDRAVOTNI USTAV*
- *BUNDESINSTITUT FUER RISIKOBEWERTUNG*
- *DANMARKS TEKNISKE UNIVERSITET*
- *BENAKI PHYTOPATHOLOGICAL INSTITUTE*
- *UNIVERSITAT ROVIRA I VIRGILI*
- *AGENCE NATIONALE DE SECURITE SANITAIRE DE L'ALIMENTATION, DE L'ENVIRONNEMENT ET DU TRAVAIL*
- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *INSTITUT NATIONAL DE L ENVIRONNEMENT ET DES RISQUES INERIS*
- *MATIS OHF*
- *UNIVERSITA DEGLI STUDI DI MILANO*
- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *NASJONALT FOLKEHELSEINSTITUTT*
- *KAROLINSKA INSTITUTET*
- *NACIONALNI INSTITUT ZA JAVNO ZDRAVJE*
- *HEALTH AND SAFETY EXECUTIVE*
- *IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE*
- *THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS*

THIRD PARTIES

- *FUNDAÇÃO UNIVERSIDADE DE BRASILIA*
- *UNIVERSITY OF OTTAWA*
- *WORLD HEALTH ORGANIZATION*
- *U.S. ENVIRONMENTAL PROTECTION AGENCY - EPA*

Consumers are exposed to multiple chemicals via multiple routes. The central aim of EuroMix is to develop a tiered testing strategy for mixtures of these chemicals.

The project will define prioritisation criteria for chemicals to be tested based on their exposure and hazard characteristics and evaluation of the role of mode of action and their key events in grouping chemicals into cumulative assessment groups.

EuroMix will focus on liver, developmental and endocrine effects. The work consists of:

- Identifying a wide variety of chemicals as a first step in the testing strategy by quantitative structure-activity relation (QSAR) modelling;
- Development of a bioassay toolbox using well-established bioassays in cell lines and primary cells in combination with 'omics' technology for quantitative in-vitro screening of the identified chemicals based on QSARs and exposure considerations;
- *In-vivo* verification of the *in-vitro* and *in-silico* results;
- Addressing *in-vitro* to *in-vivo* extrapolation by Physiologically-Based PharmacoKinetics/Dynamics models and the validation of these approaches for reducing animal studies in the future;
- Development of a web-based toolbox of models and data, to be used for exposure assessment of mixtures;
- Development of criteria and guidance for testing mixtures;
- To align with key international organisations, allowing harmonisation.

It is expected that EuroMix project will:

- boost innovation in the public and private sector
- provide a sound scientific basis for managing risks to public health from chemical mixtures
- ultimately reduce the use of laboratory animals
- support discussion of risk assessment policies for mixtures in the EU, Codex Alimentarius and the World Health Organisaton.

READ MORE:

http://cordis.europa.eu/project/rcn/193181_en.html
http://www.euromixproject.eu/

FATIMA

Farming tools for external nutrient Inputs and water management

FATIMA addresses effective and efficient monitoring and management of agricultural resources to achieve optimum crop yield and quality in a sustainable environment.

It covers both ends of the scale relevant for food production, precision farming and the perspective of a sustainable agriculture in the context of integrated agri-environment management.

The project aims at developing innovative and new farming capacities that help the intensive farm sector optimize their external input (nutrients, water) management and use, with the vision of bridging sustainable crop production and fair economic competitiveness.

FATIMA's comprehensive strategy covers five interconnected levels:

- a modular technology package (based on the integration of Earth observation and wireless sensor networks into a webGIS);
- a field work package (exploring options of improving soil and input management);
- a toolset for multi-actor participatory processes;
- an integrated multi-scale economic analysis framework
- an umbrella policy analysis set based on indicator-, accounting- and footprint approach.

The project addresses and works with user communities (farmers, managers, decision makers in the farm and agribusiness sector) at scales ranging from farm, over irrigation scheme or aquifer, to river basins.

It will provide them with maps of water and fertilizer requirements (to feed into precision farming machinery), reduce water consumption and a range of further products for sustainable cropping management supported with innovative water-energy footprint frameworks.

All information will be integrated in leading edge participatory spatial online decision-support systems. The innovative FATIMA service concept considers the economic, environmental, technical, social, and political dimensions in an integrated way.

FATIMA is being implemented and demonstrated in eight pilot areas representative of key European intensive crop production systems in Spain, Italy, Greece, Netherlands, Czech Republic, Austria, France, Turkey.

READ MORE:

http://cordis.europa.eu/project/rcn/193262_en.html

AT A GLANCE

Acronym: FATIMA

Call: H2020-SFS-2014-2

Topic: SFS-02a-2014

Start date: 01/03/2015

End date: 01/03/2018

Duration: 36 months

Total Cost: € 7.966.697,00

EC Contribution: € 7.966.697,00

Consortium: 21 partners

Project Coordinator: Universidad De Castilla - La Mancha, Spain

PARTICIPANTS LIST

- *UNIVERSIDAD DE CASTILLA - LA MANCHA*
- *OSTERREICHISCHE AGENTUR FUR GESUNDHEIT UND ERNAHRUNGSSICHERHEIT GMBH*
- *UNIVERSITAET FUER BODENKULTUR WIEN*
- *RED COAST INTERNATIONAL EOOD*
- *METCENAS OPS*
- *VYZKUMNY USTAV MELIORACI A OCHRANY PUDY VVI*
- *NIKOLAOS SPYROPOULOS*
- *AGRICULTURAL UNIVERSITY OF ATHENS*
- *DRAXIS ENVIRONMENTAL S.A.*
- *HELLINIKOS GEORGIKOS ORGANISMOS - DIMITRA*
- *MOUSEIO GOULANDRI FYSIKIS ISTORIAS*
- *ALIARA AGRÍCOLA SL*
- *INSTITUTO TECNICO AGRONOMICO PROVINCIAL SA*
- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *ARIESPACE SRL*
- *CONSIGLIO PER LA RICERCA IN AGRICOLTURA E L'ANALISI DELL'ECONOMIA AGRARIA*
- *BALTIC OPEN SOLUTIONS CENTER*
- *STICHTING VU-VUMC*
- *DOISECO UNIPESSOAL LDA*
- *EA-TEK ULUSLARARASI ARASTIRMA GELISTIRME MUHENDISLIK Y AZILIM VE DANISMANLIK LIMITED SIRKETI*
- *MINISTRY OF FOOD AGRICULTURE AND LIVESTOCK**

FEED-A-GENE

Adapting the feed, the animal and the feeding techniques to improve the efficiency and sustainability of monogastric livestock production systems

AT A GLANCE

Acronym: Feed-a-Gene

Call: H2020-SFS-2014-2

Topic: SFS-01a-2014

Start date: 01/03/2015

End date: 01/03/2020

Duration: 60 months

Total Cost: € 9.933.795,00

EC Contribution: € 8.999.544,00

Consortium: 26 partners

Project Coordinator: Institut National De La Recherche Agronomique, France

PARTICIPANTS LIST

- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *BUHLER AG*
- *CHINA AGRICULTURAL UNIVERSITY*
- *AARHUS UNIVERSITET*
- *DUPONT NUTRITION BIOSCIENCES APS*
- *HAMLET PROTEIN SA*
- *CLAITEC SOLUTIONS SL*
- *EXAFAN SA*
- *INCO (INDUSTRIAL DEL CONEJO)*
- *INSTITUT DE RECERCA I TECNOLOGIA AGROALIMENTARIES*
- *UNIVERSIDAD DE LLEIDA*
- *ASSOCIATION DE COORDINATION TECHNIQUE AGRICOLE*
- *ASSOCIATION FRANCAISE DE ZOOTECHNIE*
- *CENTRE TECHNIQUE INTERPROFESSIONNEL DES OLEAGINEUX ET DU CHANVRE*
- *IFIP-INSTITUT DU PORC ASSOCIATION*
- *INRA TRANSFERT S.A.*
- *INSTITUT TECHNIQUE DE L'AVICULTURE DES PRODUCTIONS DE BASSE-COUR ET DES ELEVAGES DE PETITS ANIMAUX*
- *KAPOSVARI EGYETEM*
- *GRAN SUINO ITALIANO*
- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *TOPIGS RESEARCH CENTER IPG BV*
- *COBB EUROPE LIMITED*
- *UNIVERSITY OF NEWCASTLE UPON TYNE*

THIRD PARTIES

- *CENTRE DE RECERCA EN AGRIGENOMICA CSIC-IRTA-UAB-UB*
- *CENTRE DE RECERCA EN ECONOMIA I DESENVOLUPAMENT AGROALIMENTARI-UPC-IRTA*
- *CREOL - CENTRE DE RECHERCHE ET D'EXPERIMENTATIONSUR LES OLEAGINEUX ET LE PROTEAGINEUX*

Feed-a-Gene aims to better adapt different components of monogastric livestock production systems (i.e., pigs, poultry and rabbits) to improve the overall efficiency and to reduce the environmental impact.

This involves the development of new and alternative feed resources and feed technologies, the identification and selection of robust animals that are better adapted to fluctuating conditions, and the development of feeding techniques that optimize the potential of the feed and the animal.

To reach this overall objective, the project will:

- Develop new and alternative feeds and feed technologies to make better use of local feed resources, green biomass and by-products of the food and biofuel industry;
- Develop methods for the real-time characterization of the nutritional value of feeds to better use and adapt diets to animal requirements;
- Develop new traits of feed efficiency and robustness allowing identification of individual variability to select animals that are more adapted to changes in feed and environmental conditions;
- Develop biological models of livestock functioning to better understand and predict nutrient and energy utilization of animals along their productive trajectory;
- Develop new management systems for precision feeding and precision farming combining data and knowledge from the feed, the animal, and the environment using innovative monitoring systems, feeders, and decision support tools.
- Evaluate the overall sustainability of new management systems developed by the project.
- Demonstrate the innovative technologies developed by the project in collaboration with partners from the feed industry, breeding companies, equipment manufacturers, and farmers' organisations to promote the practical implementation of project results.
- Disseminate new technologies that will increase animal production efficiency, whilst maintaining product quality and animal welfare and enhance EU food security to relevant stakeholders.

READ MORE:

http://cordis.europa.eu/project/rcn/193241_en.html
http://www.feed-a-gene.eu/

FIELDFOOD

Integration of PEF in food processing for improving food quality, safety and competitiveness

Pulsed electric field technology (PEF) is an innovative non-thermal processing method that causes the increment of the permeability of the cytoplasmatic membranes of microorganisms and eukaryote cells of plant and animal tissues using low energy requirements whilst minimizing quality deterioration of the food compounds. This technology permits to pasteurize heat-sensitive liquid foods by inactivating vegetative cells of microorganisms at lower temperatures that those used in thermal processing and to enhance mass transfer in different operations of the food industry such as extraction of intracellular compounds of interest, dehydration or infusion de compounds in the food matrix.

Currently, in spite of the many advantages deriving from the introduction of the PEF technology in the food industry and the existence of different PEF manufactures at industrial-scale, applications of PEF in the food industry is still limited. FieldFOOD project is based on a preliminary analysis addressed to identify the bottlenecks that cause such limited application with the objective of providing SME companies (food producers, pulse power producers, equipment manufactures) with a clear competitive edge, as well as opportunities for growing, diversification and job creation but also of responding to consumer demand for foods with fresh characteristics or novel foods that contribute to individual health and wellbeing. This broad objective will be achieved by:

- A systematic process analysis of different specific applications (fruit juice processing, tomato product processing, winemaking, olive oil extraction and cider-making) for a successful integration of the PEF technology in order to replace or complement existing traditional food processing technologies and
- The design of modular, portable, low-cost pulse generators.

The main deliverable of FieldFOOD project will be to validate and demonstrate, in co-operation with SMEs, implementation of modular, portable, low-cost pulse generators for different applications. The efforts needed to introduce this technology in the food industry for different applications are necessary to be multidisciplinary. Therefore, to be efficient and successful, strong links needs to be established between research institutions with a well-established expertise in PEF technology (four partners), manufactures of PEF generator (one SME partner) food companies (five SMEs partners) that represent the final users of the technology, promoters of technological transfer (one non-profit organization) and experts on evaluation of food process sustainability (one SME).

READ MORE:

http://cordis.europa.eu/project/rcn/193342_en.html

AT A GLANCE

Acronym: FieldFOOD

Call: H2020-SFS-2014-2

Topic: SFS-17-2014

Start date: 01/04/2015

End date: 01/04/2018

Duration: 36 months

Total Cost: € 2.281.015,00

EC Contribution: € 1.994.301,25

Consortium: 12 partners

Project Coordinator: Universidad De Zaragoza, Spain

PARTICIPANTS LIST

- *UNIVERSIDAD DE ZARAGOZA*
- *DIESDORFER SUSSMOST-, WEINKELTEREIUND EDELDESTILLE GMBH*
- *TECHNISCHE UNIVERSITAET BERLIN*
- *INFLUX AS*
- *AGROINDUSTRIA ARAGONESA S.A.*
- *BODEGAS ARAGONESAS SA*
- *CON TRAAS LTD.*
- *UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN*
- *F.P.D. S.R.L.*
- *PRODAL SCARL*
- *STICHTING EFFOST*
- *ENERGYPULSE SYSTEMS, LDA*

FRESH-DEMO

Waste reduction and quality improvement of fruits and vegetables via an innovative and energy-efficient humidification/disinfection technology

AT A GLANCE

Acronym: FRESH-DEMO

Call: H2020-SFS-2014-2

Topic: SFS-17-2014

Start date: 01/03/2015

End date: 01/03/2017

Duration: 24 months

Total Cost: € 2.565.006,25

EC Contribution: € 1.994.802,63

Consortium: 10 partners

Project Coordinator: Contronics Engineering BV (CEN), The Netherlands

By means of ultrasonic humidification as well as natural sanitizers for disinfection a cool, humid, and germ-free climate will be established preserving quality and freshness of fruits and vegetables along the entire post-harvest supply chain. In five real-scale case studies (directly after harvesting - washing step, in transportation, storage, and retail facilities) the market potential of this technology will be demonstrated.

Therefore, an unbroken cold as well as humidity chain will be achieved from farm to fork, substantially reducing waste along each step.

Thorough analysis of the achieved results in terms of ecologic, technological and economic benefits as well as in-depths market research will provide the basis for an extensive training, promotion, and dissemination program aimed at multipliers and potential clients, thus achieving a successful market introduction.

READ MORE:

http://cordis.europa.eu/project/rcn/193303_en.html
http://www.fresh-demo.eu/

PARTICIPANTS LIST

- *CONTRONICS ENGINEERING BV (CEN)*
- *EUROPEAN FRESH PRODUCE ASSOCIATION AISBL*
- *RFT FRISCHETECHNIK GMBH*
- *UNIVEG DEUTSCHLAND GMBH*
- *VEREIN ZUR FOERDERUNG DES TECHNOLOGIETRANSFERS AN DER HOCHSCHULE BREMERHAVEN E.V.*
- *DANMARKS TEKNISKE UNIVERSITET*
- *POLYPAN GROUP SA*
- *BIOAZUL*
- *UNIVEG TRADE ITALIA SRL*
- *SUPERMARKT VAN GURP BV*

FUTURE-FOOD

Faster Upcoming Technology Uptake Relevant for the Environment in FOOds Drying

FUTURE FOOD aims at the demonstration and first market application of an eco-innovative solution for drying of food products: CO2 drying. An important benefit is the preservation of fresh quality attributes of food products (e.g. vegetables, herbs, fruits and proteins), while the carbon footprint and energy consumption are lower than for freeze drying.

The process uses high pressure CO2 as drying medium, which enables efficient drying at mild temperatures in the absence of oxygen. Besides excellent preservation of product quality (color, taste, texture and shape), inactivation of microorganisms occurs in-situ which attributes to ensuring food safety.

The main objectives of the project are:

- minimize risks that could prevent CO2 drying to enter the market, and
- demonstrate its market replication potential via a first application to the market. The base of the project is to provide prototyped products and enable process extensions that will increase the market potential.

The full potential of this technology will be demonstrated at a food grade level using a validated process to identify the benefits for consumers and the food chain. In this way, the drying process will evolve from TRL 4-5 to 8. By intensive dissemination to increase visibility, the technology will be disseminated to the European food industry to maximize uptake of the technology in the market and realizing impact on sustainability, food safety and economy.

READ MORE:

http://cordis.europa.eu/project/rcn/193348_en.html

AT A GLANCE

Acronym: FUTURE-FOOD

Call: H2020-SFS-2014-2

Topic: SFS-17-2014

Start date: 01/03/2015

End date: 01/03/2018

Duration: 36 months

Total Cost: € 2.602.973,75

EC Contribution: € 2.094.031,62

Consortium: 7 partners

Project Coordinator: Feyecon Development & Implementation BV, The Netherlands

PARTICIPANTS LIST

- *FEYECON DEVELOPMENT & IMPLEMENTATION BV*
- *UNIVERSITEIT GENT*
- *UNIVERSITA DEGLI STUDI DI PADOVA*
- *CO2 DRY BV*
- *VNK B.V.*
- *FACULTY OF AGRICULTURE - UNIVERSITY OF BELGRADE*
- *SP SVERIGES TEKNISKA FORSKNINGSINSTITUT AB*

HIPSTER

Deployment of high pressure and temperature food processing for sustainable, safe and nutritious foods with fresh-like quality

AT A GLANCE

Acronym: HIPSTER

Call: H2020-SFS-2014-2

Topic: SFS-17-2014

Start date: 01/03/2015

End date: 01/09/2017

Duration: 30 months

Total Cost: € 2.328.928,75

EC Contribution: € 1.978.928,75

Consortium: 9 partners

Project Coordinator: Centro Nacional de Tecnología y Seguridad Alimentaria (CNTA) - Laboratorio del Ebro, Spain

PARTICIPANTS LIST

- *CENTRO NACIONAL DE TECNOLOGÍA Y SEGURIDAD ALIMENTARIA (CNTA) - LABORATORIO DEL EBRO*
- *YOURIS.COM*
- *TECHNISCHE UNIVERSITAET MUENCHEN*
- *INDUSTRIAS ALIMENTARIAS DE NAVARRA SA*
- *METRONICS TECHNOLOGIES SL*
- *ACTALIA ASSOCIATION*
- *TEAGASC - AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY*
- *MARFO B.V*
- *TOP BV*

High pressure and temperature (HPT) processing is a candidate technology for commercial food processing to obtain safer, high quality food products with extended shelf life, both chilled and shelf stable. Although it is accepted that HPT is environmentally friendly and can help to retain the fresh-like characteristics of foods better than conventional and other novel treatments, it has not yet been scaled-up and fully implemented into the food industry due to two major reasons:

- The lack of knowledge on the inactivation mechanisms and decision making tools enabling food industry to apply and control suitable treatments. In addition, its added value (best quality product) compared to current treatments must be demonstrated
- The unavailability of suitable industrial equipment and process parameters control tools HIPSTER addresses the main barriers preventing the first market introduction and full deployment of HPT. The overall objective of the project is to develop and demonstrate fit for use knowledge, tools and industrial equipments in order to effectively implement this milder processing technology in the food industry.

Specific objectives:

- Development of affordable equipment at industrial scale suitable for the implementation of high pressure-temperature (HPT) processing
- Definition of minimum process variables by means of the evaluation of microbiological risks for the main pathogenic and spoilage microorganisms of concern. A public database containing microbial kinetic parameters, determined under well-defined processing conditions will be generated. The database will include new knowledge and data already available.
- Verification and validation of the solutions in an industrial environment, including compliance with legal requirements, economic feasibility, and sustainability HIPSTER will be implemented by an industry driven consortium comprising 5 industries (both technology providers and end-users) and 4 RTD organisations.

READ MORE:

http://cordis.europa.eu/project/rcn/193343_en.html

ISQAPER

Interactive Soil Quality Assessment in Europe and China for Agricultural Productivity and Environmental Resilience

Knowledge regarding the complex interplay between agricultural land use and management and soil quality and function is fragmented and incomplete, in particular with regard to underlying principles and regulating mechanisms.

The main aim of iSQAPER is to develop an interactive soil quality assessment tool (SQAPP) for agricultural land users that integrates newly derived process understanding and accounts for the impact of management on soil properties and functions, and related ecosystem services.

Over 30 long-term experimental field trials in the EU and China will be analysed to derive regulating principles for integration in SQAPP. SQAPP will be developed using a multi-actor approach aiming at facilitating social innovation and providing cost-effective options to enhance soil quality and productivity.

Within 14 Case Study sites covering a spectrum of farming systems and pedo-climatic conditions in the EU and China, SQAPP will be tested extensively, i.e. regarding the effects of alternative practices on soil quality and productivity. The upscaling potential of proven practices will be assessed, including their soil environmental footprint, under current and future agricultural trends and policy scenarios.

A comprehensive dissemination and communication strategy, including a web-based information portal, will make project results available to a variety of stakeholders at the right time and in appropriate formats to enhance soil quality and productivity in the EU and China.

READ MORE:

http://cordis.europa.eu/project/rcn/193347_en.html
http://www.isqaper-project.eu/

AT A GLANCE

Acronym: iSQAPER

Call: H2020-SFS-2014-2

Topic: SFS-04-2014

Start date: 01/05/2015

End date: 01/05/2020

Duration: 60 months

Total Cost: € 6.876.625,00

EC Contribution: € 5.375.375,00

Consortium: 25 partners

Project Coordinator: Wageningen University, The Netherlands

PARTICIPANTS LIST

- *WAGENINGEN UNIVERSITY*
- *JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION*
- *FORSCHUNGSINSTITUT FUR BIOLOGISCHENLANDBAU STIFTUNG*
- *UNIVERSITAET BERN*
- *INSTITUTE OF AGRICULTURAL RESOURCES AND REGIONAL PLANNING CAAS*
- *INSTITUTE OF SOIL SCIENCE CHINESE ACADEMY OF SCIENCES*
- *NORTHWEST A&F UNIVERSITY*
- *SOIL AND FERTILIZER INSTITUTE, SICHUAN ACADEMY OF AGRICULTURAL SCIENCES (SAAS)*
- *EESTI MAAULIKOOL*
- *AGRICULTURAL UNIVERSITY OF ATHENS*
- *UNIVERSIDAD MIGUEL HERNANDEZ DE ELCHE*
- *UNIVERSIDAD POLITECNICA DE MADRID*
- *GAEC DE LA BRANCHETTE*
- *PANNON EGYETEM*
- *FONDAZIONE PER LO SVILUPPO SOSTENIBILE DEL MEDITERRANEO*
- *CONSULT AND RESEARCH ON PARTICIPATION AND GENDER - COREPAGE - CLARINGBOULD HELEEN ELSA*
- *STICHTING BOTH ENDS*
- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *STICHTING INTERNATIONAL SOIL REFERENCE AND INFORMATION CENTRE*
- *INSTYTUT AGROFIZYKI POLSKIEJ AKADEMII NAUK*
- *INSTITUTO POLITECNICO DE COIMBRA*
- *UNIVERSIDADE DE EVORA*
- *INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU PEDOLOGIE, AGROCHIMIE SI PROTECTIA MEDIULUI*
- *UNIVERZA V LJUBLJANI*
- *INSTITUTE FOR EUROPEAN ENVIRONMENTAL POLICY, LONDON*

I3-FOOD

Process integration for rapid implementation of sustainable innovative food processing

AT A GLANCE

Acronym: i3-Food

Call: H2020-SFS-2014-2

Topic: SFS-17-2014

Start date: 01/03/2015

End date: 01/03/2018

Duration: 36 months

Total Cost: € 2.314.375,00

EC Contribution: € 2.159.275,00

Consortium: 10 partners

Project Coordinator: Elea Vertriebs- Und Vermarktungsgesellschaft MBH, Germany

The main objective of I3-Food is the implementation of three prioritised innovative food processing technologies by validation of optimum process control under industrial conditions:

- Pulsed Electric Field preservation (PEF-P) of liquid food products (e.g. fruit juices or smoothies);
- High pressure thermal sterilization (HPTS) for ready-to-eat-meals
- Low shear extrusion of cold food products (ice cream).

A connatural set of both technical (missing online sensors) and process conditioned bottlenecks does exist which hinders their uptake by industry and in the market. Therefore, optimum process control will be achieved in I3-Food leading to application under real life operating conditions by demonstrating and piloting in a near to operational environment of applicable validation systems, for each technology.

For rapid and easy market uptake an analysis of the innovation environment and identification of opportunities will be performed (in phase 1) as well as road-mapping for market penetration per technology (in phase 2). This integrated approach will provide maximal synergies in between the 3 afore-mentioned technologies. Application opportunities beyond the known use cases will be explored, as well.

A scientific cutting edge strategy for overcoming the market barriers ensuring rapid and maximum market uptake will be defined. A clear description of possible applications and potential benefits will serve as an excellent basis for the dissemination activities. I3-Food will extremely benefit from results of national, trans-national and European food technology projects

S&T project partners of I3-Food have outstanding expertise in the field of PEF, high pressure and extrusion application as well as high competences in system and innovation research. Thus, the multidisciplinary endeavour will connect and amplify the EU strengths in bringing advanced technologies into European practice.

READ MORE:

http://cordis.europa.eu/project/rcn/193332_en.html
http://i3food.eu/

PARTICIPANTS LIST

- *ELEA VERTRIEBS- UND VERMARKTUNGSGESELLSCHAFT MBH*
- *DEUTSCHES INSTITUT FUER LEBENSMITTELTECHNIK*
- *DMK EIS GMBH*
- *ENTEX RUST & MITSCHKE GMBH*
- *ERDBAR GMBH*
- *FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV*
- *INSTITUT DE RECERCA I TECNOLOGIA AGROALIMENTARIES*
- *FOODCASE INTERNATIONAL BV*
- *HOOGESTEGER BV*
- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*

LANDMARK

LAND Management: Assessment, Research, Knowledge base

Soils provide a range of ecosystem services known as "soil functions". Functions relating to agriculture include: primary productivity, water regulation & purification, carbon-sequestration, habitat for biodiversity and nutrient provision.

Trade-offs between these functions may occur: for example, management aimed at maximising primary production may impact the 'water purification' or 'habitat' functions. This can lead to conflicting management recommendations. LANDMARK will address this by developing a coherent framework for the sustainable management of soils by delivering:

- Local scale: A toolkit for farmers with cost-effective, practical measures for sustainable (and context specific) soil management.
- Regional scale - A blueprint for a harmonised soil monitoring scheme to facilitate assessment of soil functions across soil types and land-uses for all major EU climatic zones.
- EU scale – An assessment of EU policy instruments for incentivising sustainable land management.

LANDMARK is taking an explicit multi-actor approach to innovation. As a consortium of Chambers of Agriculture, Academia, policy makers and applied research institutes from 15 countries, it will bring together the best practical and scientific knowledge on soil management across Europe. In addition, LANDMARK is taking a global perspective through 'shared learning' on land management with China and Brazil.

READ MORE:

http://cordis.europa.eu/project/rcn/193323_en.html

AT A GLANCE

Acronym: LANDMARK

Call: H2020-SFS-2014-2

Topic: SFS-04-2014

Start date: 01/05/2015

End date: 01/11/2019

Duration: 54 months

Total Cost: € 5.307.551,25

EC Contribution: € 4.999.663,00

Consortium: 29 partners

Project Coordinator: TEAGASC - Agriculture And Food Development Authority, Ireland

PARTICIPANTS LIST

- *TEAGASC - AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY*
- *OSTERREICHISCHE AGENTUR FUR GESUNDHEIT UND ERNAHRUNGSSICHERHEIT GMBH*
- *JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION*
- *UNIVERSITEIT ANTWERPEN*
- *UNIVERSIDADE DE SAO PAULO*
- *EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH*
- *INSTITUTE OF SOIL SCIENCE CHINESE ACADEMY OF SCIENCES*
- *LANDWIRTSCHAFTSKAMMER NIEDERSACHSEN*
- *KOBENHAVNS UNIVERSITET*
- *UNIVERSIDAD DE SEVILLA*
- *ASSEMBLEE PERMANENTE DES CHAMBRES D'AGRICULTURE*
- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *SZENT ISTVAN UNIVERSITY*
- *THE CIRCA GROUP EUROPE LIMITED*
- *UNIVERSITA DEGLI STUDI DI PARMA*
- *RIJKSINSTITUUT VOOR VOLKSGEZONDHEIDEN MILIEU*NATIONAL INSTITUTEFOR PUBLIC HEALTH AND THE ENVIRONMENTEN*
- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *WAGENINGEN UNIVERSITY*
- *UNIVERSITATEA DE STIINTE AGRICOLE SI MEDICINA VETERINARA CLUJ NAPOCA*
- *SVERIGES LANTBRUKSUNIVERSITET*
- *MEDNARODNA PODIPLOMSKA SOLA JOZEFA STEFANA*
- *UNIVERSITY OF ULSTER*

THIRD PARTIES

- *BUNDESFORSCHUNGS-UND AUSBILDUNGSZENTRUM FÜR WALD, NATURGEFAHREN UND LANDSCHAFT*
- *UMWELTBUNDESAMT GMBH*
- *CHAMBRE D'AGRICULTURE DU CENTRE*
- *CHAMBRE REGIONALE D'AGRICULTURE DE FRANCE COMTE*
- *CHAMBRE REGIONALE D'AGRICULTURE DE MIDI-PYRENEES*
- *CHAMBRE REGIONALE D'AGRICULTURE POITOU-CHARENTES*
- *ESITPA ECOLE D'INGENIEURS EN AGRICULTURE*

MINOUW

Science, Technology, and Society Initiative to minimize Unwanted Catches in European Fisheries

AT A GLANCE

Acronym: MINOUW

Call: H2020-SFS-2014-2

Topic: SFS-09-2014

Start date: 01/03/2015

End date: 01/03/2019

Duration: 48 months

Total Cost: € 6.239.622,38

EC Contribution: € 5.904.029,50

Consortium: 17 partners

Project Coordinator: Agencia Estatal Consejo Superior De Investigaciones Cientificas, Spain

The complexity of the problem of banning discards and bringing all unwanted catches to land makes it necessary to follow a multi-actor approach, whereby scientists, fisheries technologists, fish producers and NGOs work collaboratively to provide the scientific and technical basis to achieve the gradual elimination of discards in European marine fisheries.

The project's overall objective is to minimise unwanted catches by incentivising the adoption of fishing technologies and practices that reduce pre-harvest mortality and post-harvest discards, while avoiding damage to sensitive marine species and habitats.

The general approach is based on technical/technological and socioeconomic solutions on a case-by-case analysis of the main types of European fisheries. The project will analyze existing and potential discard-mitigating innovative technologies in workshop roundtables with participation of fishers, technologists and scientists.

The technologies selected will be tested in field trials to experimentally assess their efficiency: among other, improved precatch identification with observational technologies and pre-harvest loss reduction by gear modification and switching to light impact gear. The results will be analyzed in terms of technological advances, marketability and cost-benefit analysis.

Other actions included in the project are social and economic instruments to incentivise selective fishing and discourage discarding practices, such as ecolabelling, fisheries certification and promoting awareness among industry and consumers, and mathematical modelling of ecosystem effects of unwanted catches reduction.

READ MORE:

http://cordis.europa.eu/project/rcn/193293_en.html
http://minouw.icm.csic.es/?q=node/1

PARTICIPANTS LIST

- *AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS*
- *WWF EUROPEAN POLICY PROGRAMME AISBL*
- *HELLENIC CENTRE FOR MARINE RESEARCH*
- *ILLES BALEARS*
- *PROYECTOS BIOLOGICOS Y TECNICOS S.L.*
- *UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA*
- *HELSINGIN YLIOPISTO*
- *ISRAEL OCEANOGRAPHIC AND LIMNOLOGICAL RESEARCH LIMITED*
- *HASKOLI ISLANDS*
- *CONSIGLIO NAZIONALE DELLE RICERCHE*
- *CONSORZIO PER IL CENTRO INTERUNIVERSITARIO DI BIOLOGIA MARINA ED ECOLOGIA APPLICATA G. BACCI*
- *NISEA SOCIETA COOPERATIVA*
- *HAVFORSKNINGSINSTITUTTET*
- *CENTRO DE CIENCIAS DO MAR DO ALGARVE*
- *UNIVERSITY OF YORK*

THIRD PARTIES

- *WORLD WIDE FUND FOR NATURE GREECE*
- *WORLD WIDE FUND ITALY*

NEUROSTRESSPEP

Novel biocontrol agents for insect pests from neuroendocrinology

nEUROSTRESSPEP aims to provide 'greener' neuroendocrinology-based insect bio-control for Food Security, as there is now the 'perfect storm' of required increased food production, insecticide resistance by insect pests, and tighter regulation of insecticide use across agriculture, horticulture and forestry. Thus, sustainable approaches for insect pest control are required.

Neuropeptides control physiology, behavior and environmental stress responses, so the project objectives are to provide pest insect bio-control tools via selective neuropeptide mimics (analogs) and genetic-based techniques, which interfere with specific insect neuropeptide pathways. This will selectively disrupt specific physiological processes and affect insect fitness and/or survival, rather than nonselective obliteration - and so also fits well with integrated pest and forest management practices.

These are also environmentally sound strategies for controlling some of the most serious insect pests across agriculture, horticulture and forestry, whilst seeking to protect beneficial insects; and should not result in insect resistance.

nEUROSTRESSPEP is comprised of globally leading researchers, government agencies and companies; and bridges innovative research with end user need, using key expertise in:

- Systems and Synthetic Biology
- Genetic Pest Management
- Neuropeptide Physiology
- Environmental Stress Tolerance
- Peptide Analog Design, Application and Trials
- Integrated pest and forest management
- Communications, Stakeholder Engagement

The consortium aims to achieve societal, environmental and economic impact and will interact with stakeholders and end users to ensure successful delivery of the progamme objectives.

READ MORE:

http://cordis.europa.eu/project/rcn/193282_en.html
http://neurostresspep.eu/

AT A GLANCE

Acronym: nEUROSTRESSPEP

Call: H2020-SFS-2014-2

Topic: SFS-03a-2014

Start date: 01/06/2015

End date: 01/06/2019

Duration: 48 months

Total Cost: € 6.995.053,75

EC Contribution: € 6.995.052,50

Consortium: 14 partners

Project Coordinator: University of Glasgow, UK

PARTICIPANTS LIST

- *UNIVERSITY OF GLASGOW*
- *KATHOLIEKE UNIVERSITEIT LEUVEN*
- *UNIVERSITEIT GENT*
- *BRUKER DALTONIK GMBH*
- *UNIVERSITAET ZU KOELN*
- *THE AGRICULTURAL RESEARCH ORGANISATION OF ISRAEL - THE VOLCANI CENTRE*
- *STOCKHOLMS UNIVERSITET*
- *FORESTRY COMMISSION RESEARCH AGENCY*
- *KNOWLEDGE TRANSFER NETWORK LIMITED*
- *OXITEC LIMITED*
- *SCOTTISH GOVERNMENT*
- *THE PIRBRIGHT INSTITUTE LBG*
- *UNIVERSITY OF LEEDS*
- *UNIVERSITY OF CAPE TOWN*

PARAGONE

Vaccines for animal parasites

AT A GLANCE

Acronym: Paragone

Call: H2020-SFS-2014-2

Topic: SFS-01b-2014

Start date: 01/04/2015

End date: 01/04/2019

Duration: 48 months

Total Cost: € 9.311.059,75

EC Contribution: € 8.998.559,75

Consortium: 20 partners

Project Coordinator: Moredun Research Institute, UK

PARTICIPANTS LIST

- *MOREDUN RESEARCH INSTITUTE*
- *UNIVERSITEIT GENT*
- *ZOETIS BELGIUM SA*
- *LANZHOU VETERINARY RESEARCH INSTITUTE*
- *IMMUNOTOOLS GMBH*
- *AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS*
- *UNIVERSIDAD DE CORDOBA*
- *UNIVERSIDAD DE LAS PALMAS DE GRAN CANARIA*
- *DUBLIN CITY UNIVERSITY*
- *UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN*
- *VETERINAERINSTITUTTET - NORWEGIAN VETERINARY INSTITUTE*
- *BENCHMARK ANIMAL HEALTH LIMITED*
- *FIOS GENOMICS LIMITED*
- *THE QUEEN'S UNIVERSITY OF BELFAST*
- *THE ROYAL VETERINARY COLLEGE*
- *XSTALBIO LTD*
- *UNIVERSIDAD DE LA REPUBLICA*

THIRD PARTIES

- *FUNDACION CANARIA PARQUE CIENTIFICO TECNOLOGICO DE LA UNIVERSIDAD DE LAS PALMAS DE GRAN CANARIA*
- *FAI FARMS LTD*
- *MOREDUN SCIENTIFIC LIMITED*

Helminth and ectoparasitic infections of ruminants and poultry have a huge impact on the biological efficiency and productivity of these vital food sources. The indiscriminate use of antiparasitics has led to widespread drug resistance across the globe. The main alternative to the dwindling supply of antiparasitics is vaccines. Here, in the PARAGONE project, findings from previous EU and other-funded projects on parasite vaccine development will be exploited to take a number of the current most promising vaccine prototypes towards commercialisation.

By undertaking pen and field trials, the partners from Europe, China, Uruguay, SMEs and pharma, will directly move forward prototypes against the helminths *Fasciola hepatica* (ruminant liver fluke), *Cooperia* spp. (bovine intestinal roundworm), *Ostertagia ostertagi* (bovine brown stomach worm), and *Teladorsagia circumcincta* (ovine brown stomach worm) and, the ectoparasitic mites, *Psoroptes ovis* (ruminant scab mite) and *Dermanyssus gallinae* (poultry red mite). The partners will also utilise novel adjuvants or delivery systems to maximise the efficacy of some of the prototypes. Detailed immunology studies will focus on those pathogens that have previously proved problematic for vaccine development, often because the parasites release immunosuppressive molecules that affect the host response and which must be overcome for the vaccines to work or because recombinant (sub-unit) vaccines have failed to elicit the same levels of protection previous observed with native (parasite-derived) prototypes.

Throughout the project, state-of-the-art technologies will be used to interrogate host/parasite interactions to define key signatures of immune protection that can be used to inform antigen delivery systems that will enhance immunity. Other studies will define levels of polymorphism in the current vaccine candidates to ensure that the derived prototypes will be fit-for-purpose across geographic scales.

Fundamental to the success of this project is the engagement of the PARAGONE scientists with pharma and other stakeholders (i.e. farmers, veterinarians, and regulators) and this will be achieved via a wide range of dissemination activities that will be used to obtain feedback on how the vaccines can be best deployed in the field to ensure appropriate uptake. In summary, the output of PARAGONE will be at least two vaccine prototypes to the point of uptake by pharma, government or philanthropic agencies, as well as a clear pathway to commercialisation for all of the other prototypes that are under study.

READ MORE:

http://cordis.europa.eu/project/rcn/193331_en.html
http://www.paragoneh2020.eu/

PARAFISHCONTROL

Advanced Tools and Research Strategies for Parasite Control in European farmed fish

European aquaculture production provides direct employment to 80,000 people and a 3-billion Euro annual turnover. Parasites cause severe disease outbreaks and high economic losses in finfish aquaculture. The overarching goal of ParaFishControl is to increase the sustainability and competitiveness of European Aquaculture by improving understanding of fish-parasite interactions and by developing innovative solutions and tools for the prevention, control and mitigation of the major parasites affecting Atlantic salmon, rainbow trout, common carp, European sea bass, gilthead sea bream and turbot.

To achieve these objectives, ParaFishControl brings together a multidisciplinary consortium comprising 30 partners possessing world-leading, complementary, cross-cutting expertise and drawn from public and private research organisations, and the aquaculture industry. The consortium has access to excellent research facilities, diverse biological resources including host-parasite models, and state-of-theart vaccinology, genomic, proteomic and transcriptomic technologies.

The project will:

- generate new scientific knowledge on key fish parasites, including genomics, life-cycle, invasion strategy and host-parasite interaction data, with special emphasis on host immunity, pathogen virulence and immunomodulation, providing a scientific basis for improved prophylaxis;
- determine the transfer of parasites between farmed and wild host populations;
- develop a wide range of novel prophylactic measures, including vaccines and functional feeds;
- provide a range of advanced or alternative treatments for parasitic diseases;
- develop cost-effective, specific and sensitive diagnostic tools for key parasitic diseases;
- assess the risk factors involved in the emergence, transmission and pathogenesis of parasitic diseases;
- map the zoonotic risks due to fish helminths and;
- provide a catalogue of good husbandry practices to obtain safe and high-quality fish products.

READ MORE:

http://cordis.europa.eu/project/rcn/193286_en.html
http://www.parafishcontrol.eu/

AT A GLANCE

Acronym: ParaFishControl

Call: H2020-SFS-2014-2

Topic: SFS-10a-2014

Start date: 01/04/2015

End date: 01/04/2020

Duration: 60 months

Total Cost: € 8.104.133,75

EC Contribution: € 7.800.000,00

Consortium: 30 partners

Project Coordinator: Agencia Estatal Consejo Superior De Investigaciones Cientificas, Spain

PARTICIPANTS LIST

- *AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS*
- *BIOLOGICKE CENTRUM AV CR, V. V. I.*
- *W 42 INDUSTRIAL BIOTECHNOLOGY GMBH*
- *AARHUS UNIVERSITET*
- *DANMARKS TEKNISKE UNIVERSITET*
- *KOBENHAVNS UNIVERSITET*
- *HELLENIC CENTRE FOR MARINE RESEARCH*
- *KALLIERGEIES YDROVION ORGANISMON ANONYMOS ETAIREIA*
- *PANAGIOTIS CHRISTOFILOGIANNIS - IOANA TAVLA*
- *FUNDACION AZTI - AZTI FUNDAZIOA*
- *INMUNOLOGIA Y GENETICA APLICADA SA*
- *INSTITUTO NACIONAL DE INVESTIGACION Y TECNOLOGIA AGRARIA Y ALIMENTARIA*
- *UNIVERSIDAD DE SANTIAGO DE COMPOSTELA*
- *INRA TRANSFERT S.A.*
- *INSTITUTE OF OCEANOGRAPHY AND FISHERIES*
- *MAGYAR TUDOMANYOS AKADEMIA AGRARTUDOMANYI KUTATOKOZPONT*
- *AQUATT UETP LTD*
- *ACQUA AZZURRA SPA*
- *ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA*
- *UNIVERSITA DEGLI STUDI DI UDINE*
- *KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN - KNAW*
- *WAGENINGEN UNIVERSITY*
- *ZF-SCREENS BV*
- *SKRETTING AQUACULTURE RESEARCH CENTRE AS*
- *STIFTELSEN INDUSTRILABORATORIET*
- *UNIVERSITETET I BERGEN*
- *THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS*
- *THE UNIVERSITY COURT OF THE UNIVERSITY OF ABERDEEN*
- *THE UNIVERSITY OF STIRLING*
- *VERTEBRATE ANTIBODIES LIMITED*

PROINTENSAFRICA

Towards a long-term Africa-EU partnership to raise sustainable food and nutrition security in Africa

AT A GLANCE

Acronym: PROIntensAfrica

Call: H2020-SFS-2014-1

Topic: SFS-06-2014

Start date: 01/04/2015

End date: 01/04/2017

Duration: 24 months

Total Cost: € 1.777.873,75

EC Contribution: € 1.047.005,00

Consortium: 24 partners

Project Coordinator: Stichting Dienst Landbouwkundig Onderzoek, The Netherlands

PARTICIPANTS LIST

- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *UNIVERSITAET FUER BODENKULTUR WIEN*
- *UNIVERSITE CATHOLIQUE DE LOUVAIN*
- *INSTITUT DE L'ENVIRONNEMENT ET DE RECHERCHES AGRICOLES*
- *CENTRE FOR COORDINATION OF AGRICULTURAL RESEARCH AND DEVELOPMENT FOR SOUTHERN AFRICA*
- *CESKA ZEMEDELSKA UNIVERZITA V PRAZE*
- *RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITAT BONN*
- *KOBENHAVNS UNIVERSITET*
- *INSTITUTO NACIONAL DE INVESTIGACION Y TECNOLOGIA AGRARIA Y ALIMENTARIA*
- *LUONNONVARAKESKUS*
- *CENTRE DE COOPERATION INTERNATIONAL EN RECHERCHE AGRONOMIQUE POUR LE DEVELOPPEMENT*
- *COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH*
- *SZENT ISTVAN UNIVERSITY*
- *TEAGASC - AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY*
- *NORWEGIAN INSTITUTE OF BIOECONOMY RESEARCH - NIBIO*
- *INSTITUTO DE INVESTIGACAO CIENTIFICA TROPICAL*
- *SVERIGES LANTBRUKSUNIVERSITET*
- *CONF. RESPONS. RECHER. AGRONOM.AFRIQ. DE L'OUEST & DU CENTRE*
- *AFRICAN FORUM FOR AGRICULTURAL ADVISORY SERVICES*
- *THE REGISTERED TRUSTEES OF THE ASSOCIATION FOR STRENGTHENING AGRICULTURAL RESEARCH IN EASTERN AND CENTRAL AFRICA*
- *FORUM FOR AGRICULTURAL RESEARCH IN AFRICA*
- *UNIVERSITY OF GREENWICH*
- *AGRICULTURAL RESEARCH COUNCIL (ARC)*

THIRD PARTIES

- *INSTITUT DE RECHERCHE POUR LE DEVELOPPEMENT*

IntensAfrica is an initiative undertaken to explore the development of a Research and Innovation Flagship Programme between Africa and Europe on Food and Nutrition Security and Sustainable Agriculture.

At the suggestion of EC, the founding fathers CIRAD, Wageningen UR and FARA consider that the initiative needs three phases:

- an exploratory phase,
- a developing phase, and
- an implementing phase.

Based on the high interest raised in the first phase, we now entered the second phase, called PROIntensAfrica, with a broad consortium of 23 African and European partners, and supported by a H2020 CSA.

PROIntensAfrica intends to develop a proposal for a long term research and innovation partnership between Europe and Africa, focusing on the improvement of the food and nutrition security and the livelihoods of African farmers by exploring and exploiting the diversity of pathways to sustainable intensification of African agro-food systems. We have the ambition to formulate a research and innovation agenda, identifying the domains for further research. In addition, PROIntensAfrica will suggest financial and governance mechanisms to support the partnership.

It is extremelly important to have the perception that pooling resources is the best align existing activities and initiate new research. This perception follows the policy of the EC, with instruments of joint programming like ERA-NET, JPI and article 185. In addition, the initiative can help to realize the HLPD Roadmap for an EU-AU partnership in Agricultural Research and Innovation. Pooling resources goes beyond the scientific domain and reaches into the policy domain. Consequently, besides being rooted in edge-cutting research, the partnership proposal needs to meet national and international policies to fly. Therefore PROIntensAfrica pays specific attention to engaging with the policy domain, as exemplified by the creation of a policy support group.

READ MORE:

http://cordis.europa.eu/project/rcn/194806_en.html
http://www.intensafrica.org/

PROTEIN2FOOD

Development of high quality food protein through sustainable production and processing

PROTEIN2FOOD's aim is to replace part of the meat consumption with vegetable protein, and increase production of vegetable protein in the EU. PROTEIN2FOOD will develop innovative, cost-effective and resource-efficient plant proteins with positive impact on human health, environment and biodiversity.

The quality and quantity of protein from selected highly nutritious seed crops (quinoa, amaranth and buckwheat), and legumes with high protein quantity (lupin, faba beans, pea, chickpea, lentil) will be significantly enhanced by using a multi-disciplinary approach that includes genetic, agronomic, food processing, sensory, socio-economic, and environmental assessments.

Research is expected to improve the quality of plant proteins, produced in Europe, and of the sustainability of their production and processing. We will study: i) genetic mechanisms driving the protein formation and accumulation in the seed, ii) plant performance towards biotic and abiotic stresses, and iii) protein interactions with other components in the food matrix and its sensory repercussions in the final food products, for the development of adapted plant protein sources.

Expected results:

- enhance protein production by 25% through new effective breeding techniques and optimised crop management with an increase by 10% of the EU's arable land destined to protein-crop production,
- accelerate protein transition from animal-based protein to plant based protein in Europe with clear impact on reduction of carbon footprint,
- increase EU agro-biodiversity by introducing promising high quality crops and legumes.

READ MORE:

http://cordis.europa.eu/project/rcn/193345_en.html

AT A GLANCE

Acronym: PROTEIN2FOOD

Call: H2020-SFS-2014-2

Topic: SFS-15-2014

Start date: 01/03/2015

End date: 01/03/2020

Duration: 60 months

Total Cost: € 8.817.637,50

EC Contribution: € 8.817.637,50

Consortium: 19 partners

Project Coordinator: Kobenhavns Universitet, Denmark

PARTICIPANTS LIST

- *KOBENHAVNS UNIVERSITET*
- *EUROPEAN FOOD INFORMATION COUNCIL AISBL*
- *FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV*
- *IFEU - INSTITUT FUER ENERGIE- UND UMWELTFORSCHUNG HEIDELBERG GMBH*
- *PROLUPIN GMBH*
- *CONTROL DE PORCIONES SA*
- *UNIVERSIDAD POLITECNICA DE MADRID*
- *NOVOLYZE*
- *CYBERCOLLOIDS LIMITED*
- *UNIVERSITY COLLEGE CORK, NATIONAL UNIVERSITY OF IRELAND, CORK*
- *CONSIGLIO NAZIONALE DELLE RICERCHE*
- *LOUIS BOLK INSTITUUT*
- *MARIET FOOD HOLLAND*
- *NATURECROPS EUROPE BV*
- *UNIVERSIDAD NACIONAL AGRARIA LA MOLINA*
- *INSTYTUT ROZRODU ZWIERZAT I BADAN ZYWNOSCI POLSKIEJ AKADEMII NAUK*
- *FUNDATIA SATEAN*
- *SVERIGES LANTBRUKSUNIVERSITET*
- *MAKERERE UNIVERSITY*

SAPHIR

Strengthening Animal Production and Health through the Immune Response

AT A GLANCE

Acronym: SAPHIR

Call: H2020-SFS-2014-2

Topic: SFS-01b-2014

Start date: 01/03/2015

End date: 01/03/2019

Duration: 48 months

Total Cost: € 10.519.483,75

EC Contribution: € 8.999.996,25

Consortium: 22 partners

Project Coordinator: Institut National de la Recherche Agronomique, France

PARTICIPANTS LIST

- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *UNIVERSITEIT GENT*
- *EIDGENOESSISCHES DEPARTEMENT DES INNERN*
- *UNIVERSITAET BERN*
- *UNIVERSITE DE LAUSANNE*
- *SHANGHAI VETERINARY RESEARCH INSTITUTE - CHINESE ACADEMY OF AGRICULTURAL SCIENCES*
- *INMUNOLOGIA Y GENETICA APLICADA SA*
- *INRA TRANSFERT S.A.*
- *VIRBAC SA*
- *XEOLAS PHARMACEUTICALS LIMITED*
- *PARCO TECNOLOGICO PADANO S.R.L.*
- *EUROPEAN FORUM OF FARM ANIMAL BREEDERS*
- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *VACCIBODY AS*
- *SZKOLA GLOWNA GOSPODARSTWA WIEJSKIEGO*
- *STATENS VETERINAERMEDICINSKA ANSTALT*
- *SVERIGES LANTBRUKSUNIVERSITET*
- *CARDIFF UNIVERSITY*
- *SPOREGEN LIMITED*
- *THE PIRBRIGHT INSTITUTE LBG*
- *THE ROYAL VETERINARY COLLEGE*
- *THE UNIVERSITY OF EDINBURGH*

SAPHIR aims to develop vaccine strategies effective against endemic pathogens responsible for high economic losses in livestock in order to strengthen the profitability of food animal systems, improve animal welfare and reduce xenobiotic usage in farming with a One Health perspective. SAPHIR will bring novel vaccine strategies to the market i) at short term, with several promising vaccines brought to demonstration (RTL6), ii) at long term, with cutting edge strategies brought at proof of concept (RTL3) and iii) in line with socio-economic requirements.

SAPHIR has selected two representative pathogens of pigs (Porcine Reproductive and Respiratory Syndrome Virus and Mycoplasma hyopneumoniae), chickens (Eimeria and Clostridium perfringens) and cattle (Bovine Respiratory Syncytial Virus, Mycoplasma bovis) to develop generic vaccine approaches applicable to other pathogens.

SAPHIR will issue

- knowledge of immune mechanisms of protection,
- affordable, safe and multivalent vaccines with DIVA properties,
- efficient adjuvants targeting dendritic cells, optimal formulations, new mucosal and skin delivery systems, a new generation of DNA vectors and viral replicon platforms for fostering an earlier and longer duration of immunity including the perinatal period, and
- basal biomarkers of individual immuno-competence for future breeding strategies.

The SAPHIR dissemination and training programme includes creation of an integrated health management website, launch of a Global Alliance for Veterinary Vaccines and organization of workshops directed at food animal system stakeholders. This will ensure optimal research translation of SAPHIR outputs to market and field applications.

SAPHIR brings together interdisciplinary expertise from thirteen academic institutes including a Chinese partner, five SMEs and one pharmaceutical company.

READ MORE:

http://cordis.europa.eu/project/rcn/193183_en.html
http://www.h2020-saphir.eu/

SUFISA

Sustainable finance for sustainable agriculture and fisheries

A good functioning of the European food system is key to deliver food and nutrition security for all Europeans. However, that system faces many economic, environmental and social challenges as well as opportunities following socio-economic and technological developments that are not equally distributed throughout the EU.

Future policymaking aiming at healthy and resilient systems needs to take into account this differentiation and diversity of approaches, which necessitate foresight activities that take into account both the development of important driving forces as well as the social and spatial diversity. Primary production — that is agriculture, fisheries and aquaculture — forms the foundation of the food system. Its structure and performance is influenced by various conditions shaped by both the public and the private sector. As economic agents, primary producers aim at generating a sufficient amount of income but their financial conditions are highly dependent on public and private actors, such as suppliers, processors, wholesale and retail businesses, the financial sector, as well as government regulators (including the EU's agricultural and fisheries policies).In other words, the web of policy requirements as well as input and output market imperfections greatly shape farmers' and fishermen's livelihoods.

SUFISA aims to identify practices and policies that support the sustainability of primary producers in a context of complex policy requirements, market imperfections and globalization. Knowledge on market conditions and other driving forces exists, but in a fragmented way: relevant producer groups and regions have not yet been analyzed or framework conditions and driving forces have changed in the meantime. Moreover, little information is available on cross-linkages between various drivers and future opportunities and threats will need to be integrated for an encompassing analysis.

The work of the SUFISA project will be based on a close cooperation with stakeholders of the industry, policy makers and representatives of governmental and non-governmental organizations. The combination of theoretical approaches and multi-actor involvement will be the precondition for the identification of practices and policies aiming at addressing market failures hindering farmers and fishermen to function sustainably.

READ MORE:

http://cordis.europa.eu/project/rcn/193339_en.html
http://www.sufisa.eu/

AT A GLANCE

Acronym: SUFISA

Call: H2020-SFS-2014-2

Topic: SFS-19-2014

Start date: 01/05/2015

End date: 01/05/2019

Duration: 48 months

Total Cost: € 4.863.662,50

EC Contribution: € 4.863.661,75

Consortium: 13 partners

Project Coordinator: Katholieke Universiteit Leuven, Belgium

PARTICIPANTS LIST

- *KATHOLIEKE UNIVERSITEIT LEUVEN*
- *UNIVERSITEIT HASSELT*
- *HOCHSCHULE FUR NACHHALTIGE ENTWICKLUNG EBERSWALDE*
- *AARHUS UNIVERSITET*
- *AGRICULTURAL UNIVERSITY OF ATHENS*
- *FONDATION INSTITUT DE RECHERCHE POUR LE DEVELOPPEMENT DURABLE ET LES RELATIONS INTERNATIONALES*
- *ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA*
- *UNIVERSITA DI PISA*
- *NODIBINAJUMS BALTIC STUDIES CENTRE*
- *UNIWERSYTET JAGIELLONSKI*
- *UNIVERSIDADE DE EVORA*
- *EKONOMSKI FAKULTET, UNIVERZITET U BEOGRADU*
- *UNIVERSITY OF GLOUCESTERSHIRE LBG*

SUSFANS

*Metrics, Models And Foresight For European **Sus**tainable **F**ood **A**nd **N**utrition **S**ecurity*

AT A GLANCE

Acronym: SUSFANS

Call: H2020-SFS-2014-2

Topic: SFS-19-2014

Start date: 01/04/2015

End date: 01/04/2019

Duration: 48 months

Total Cost: € 5.299.993,64

EC Contribution: € 4.999.993,00

Consortium: 16 partners

Project Coordinator: Stichting Dienst Landbouwkundig Onderzoek, The Netherlands

Strengthening sustainable food and nutrition security (FNS) in the EU requires better alignment of nutritional needs and food production within an EU food system that supports public health, a sustainable environment and thriving enterprise. What policy reforms would be needed for this major societal challenge?

The SUSFANS research objectives are to build the conceptual framework, the evidence base and analytical tools for underpinning EU-wide food policies with respect to their impact on consumer diet and their implications for sustainability and society.

SUSFANS will develop suitable metrics and identify major drivers for sustainable FNS, integrate data and modelling, and develop foresight for European sustainable FNS. Central asset is a coherent toolbox which integrates two complementary strands of state-of-the-art quantitative analysis:

- micro-level modelling of nutrient intakes, habitual dietary patterns and preferences of individual consumers, and
- macro-level modelling of food demand and supply in the context of economic, environmental and demographic changes on various time-scales and for multiple sub-regions.

The project will provide an assessment of FNS in Europe – centred around the implications of the current diet for the sustainability of production and consumption in the EU – and options for the EU agri-food sector (including fisheries and aquaculture) and its stakeholders to improve future diets in the near future (up to five years) and in the long run (one or more decades ahead).

READ MORE:

http://cordis.europa.eu/project/rcn/193251_en.html
http://www.susfans.org/

PARTICIPANTS LIST

- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *INTERNATIONALES INSTITUT FUER ANGEWANDTE SYSTEMANALYSE*
- *CENTRE FOR EUROPEAN POLICY STUDIES*
- *INTERNATIONAL LIFE SCIENCES INSTITUTE EUROPEAN BRANCH AISBL*
- *JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION*
- *STATNI ZDRAVOTNI USTAV*
- *RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITAT BONN*
- *DANMARKS TEKNISKE UNIVERSITET*
- *LUONNONVARAKESKUS*
- *AGENCE NATIONALE DE SECURITE SANITAIRE DE L'ALIMENTATION, DE L'ENVIRONNEMENT ET DU TRAVAIL*
- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *CONSIGLIO PER LA RICERCA IN AGRICOLTURA E L'ANALISI DELL'ECONOMIA AGRARIA*
- *WAGENINGEN UNIVERSITY*
- *SP SVERIGES TEKNISKA FORSKNINGSINSTITUT AB*
- *NATIONAL TAIWAN UNIVERSITY*
- *THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD*

TRADITOM

Traditional tomato varieties and cultural practices: a case for agricultural diversification with impact on food security and health of European population

Tomato is the second most consumed vegetable in the EU and a major dietary source of many nutrients, vitamins and antioxidants. Consumers' complaints about the loss of flavour in modern tomatoes provide an opportunity for the valorisation of traditional tomato varieties, to protect them from genetic erosion and replacement by higher-yielding, pest resistant modern cultivars.

Genetic, epigenetic and phenotypic variability and knowledge will be concentrated in a TRADITOM database and seed repository. The variability present in TRADITOM varieties and the genetic and epigenetic differences from modern cultivars will be assessed. For varieties whose cultivation is not sustainable, novel F1 hybrids will be generated, retaining the quality characteristics of traditional varieties and incorporating yield and disease resistance traits.

Finally, traditional varieties and the impact of traditional cultivation methods will be valorised through a thorough characterization of their composition in terms of flavour- and health-related compounds, the identification of consumer preferences, the evaluation of socio-economic factors limiting their market diffusion, and the protection of the most significant case studies.

TRADITOM is a multidisciplinary translational, multi-actor research project bringing together scientists, local farmer's communities, consumer experts and small seed companies that have preserved the local germplasm, in order to apply to traditional tomato varieties the enormous knowledge generated on tomato genetics, genomics and metabolomics. This will help the conservation of traditional tomato varieties and enhance the competitive advantage of rural communities based on their production.

READ MORE:

http://cordis.europa.eu/project/rcn/193297_en.html
http://traditom.eu/

AT A GLANCE

Acronym: TRADITOM

Call: H2020-SFS-2014-2

Topic: SFS-07a-2014

Start date: 01/03/2015

End date: 01/03/2018

Duration: 36 months

Total Cost: € 4.372.015,25

EC Contribution: € 4.372.015,25

Consortium: 16 partners

Project Coordinator: Agencia Estatal Consejo Superior De Investigaciones Cientificas, Spain

PARTICIPANTS LIST

- *AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS*
- *EURICE EUROPEAN RESEARCH AND PROJECT OFFICE GMBH*
- *MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V.*
- *AGROTOBIOMHCHANIKOS SYNETAIRISMOS TYMPAKIOY*
- *ARISTOTELIO PANEPISTIMIO THESSALONIKIS*
- *ASSOC. DE PRODUCTORES Y COMERCIALIZADORES DE LA TOMATA DE PENJAR D'ALCALA DE XIVERT*
- *MERIDIEM SEEDS S.L.*
- *UNIVERSITAT POLITECNICA DE VALENCIA*
- *CENTRE TECHNIQUE INTERPROFESSIONNEL DES FRUITS ET LEGUMES*
- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *THE HEBREW UNIVERSITY OF JERUSALEM*
- *AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE*
- *ARCA 2010 SOCIETA COOPERATIVA A RL*
- *CONSIGLIO NAZIONALE DELLE RICERCHE*
- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *THE UNIVERSITY OF NOTTINGHAM*

TREASURE

Diversity of local pig breeds and production systems for high quality traditional products and sustainable pork chains

AT A GLANCE

Acronym: TREASURE

Call: H2020-SFS-2014-2

Topic: SFS-07a-2014

Start date: 01/04/2015

End date: 01/04/2019

Duration: 48 months

Total Cost: € 3.395.987,00

EC Contribution: € 3.395.986,75

Consortium: 37 partners

Project Coordinator: Kmetijski Institut Slovenije - Agricultural Institute Of Slovenia, Slovenia

PARTICIPANTS LIST

- *KMETIJSKI INSTITUT SLOVENIJE - AGRICULTURAL INSTITUTE OF SLOVENIA*
- *BAUERLICHE ERZEUGERGEMEINSCHAFT SCHWABISCH HALL WV*
- *AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS*
- *ASOCIACION ESPANOLA DE CRIADORES DE CERDO IBERICO*
- *CENTRE DE RECERCA EN ECONOMIA I DESENVOLUPAMENT AGROALIMENTARI-UPC-IRTA*
- *CENTRO DE INVESTIGACIONES CIENTIFICAS Y TECNOLOGICAS DE EXTREMADURA*
- *INSTITUT DE RECERCA I TECNOLOGIA AGROALIMENTARIES*
- *INSTITUTO NACIONAL DE INVESTIGACION Y TECNOLOGIA AGRARIA Y ALIMENTARIA*
- *IFIP-INSTITUT DU PORC ASSOCIATION*
- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *SVEUCILISTE JOSIPA JURJA STROSSMAYERA U OSIJEKU POLJOPRIVREDNI FAKULTET U OSIJEKU*
- *SVEUCILISTE U ZAGREBU AGRONOMSKI FAKULTET*
- *AGRIS SARDEGNA - AGENZIA PER LA RICERCA IN AGRICOLTURA*
- *ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA*
- *ASSOCIAZIONE NAZIONALE ALLEVATORI SUINI*
- *CENTRI REGIONALI PER LE TECNOLOGIEAGROALIMENTARI SCARL*
- *STAZIONE SPERIMENTALE PER L'INDUSTRIA DELLE CONSERVE ALIMENTARI*
- *UNIVERSITA DEGLI STUDI DI FIRENZE*
- *LIETUVOS SVEIKATOS MOKSLU UNIVERSITETAS*
- *INSTITUTO POLITECNICO DE VIANA DE CASTELO*
- *UNIVERSIDADE DE EVORA*
- *FACULTY OF AGRICULTURE - UNIVERSITY OF BELGRADE*
- *INSTITUT ZA STOCARSTVO BEOGRAD-ZEMUN*
- *KMETIJSKO GOZDARSKA ZBORNICA SLOVENIJE, KMETIJSKO GOZDARSKI ZAVOD NOVO MESTO*
- *UNIVERZA V LJUBLJANI*

THIRD PARTIES

- *BAUERLICHE ERZEUGERGEMEINSCHAFT SCHWABISCH HALL AG*
- *UNIVERSIDAD DE EXTREMADURA*
- *POLJOPRIVREDNO-USLUZNA ZADRUGA LETA*
- *ZEMLJISNA ZAJEDNICA PLEMENITA OPCINA TUROPOLJSKA*
- *CONSORZIO DI TUTELA DELLA CINTA SENESE*
- *UNIVERSITA DEGLI STUDI DI SASSARI*
- *LIETUVOS NYKSTANCIU UKINIU GYVUNU AUGINTOJU ASOCIACIJA*
- *ASSOCIACAO NACIONAL DOS CRIADORES DO PORCO ALENTEJANO*
- *ASSOC NACIONAL DE CRIADORES DE SUINOS DE RACA BIZARA*
- *EKO SELO*
- *INSTITUT ZA HIGIJENU I TEHNOLOGIJUMESA DRUSTVENO PREDUZECE*
- *DRUSTVO REJCEV KRSKOPOLJSKIH PRASICEV*

TREASURE comprises activities for the benefit of sustainable pork chains based on European local pig breeds and their production systems considering consumer demands for quality and healthiness of pork products with regional identity and societal demands for environment preservation and development of local agro-economy.

TREASURE aims to improve the knowledge, skills and competences necessary to develop existing and create new sustainable pork chains based on European local pig genetic resources (local breeds), which correspond to the highest consumer demands for quality and healthiness of pork products, and to the societal demands regarding animal welfare, environment and rural development.

TREASURE will address:

- Description and evaluation of local pig breeds, with an emphasis on untapped ones, using novel genomic tools.
- Performance of local pig breeds in contrasted agro-geo-climatic conditions and production systems (indoor, outdoor, organic) with focus on pig feeding and management strategies and on the use of locally available feeding resources.
- Intrinsic quality of traditional and new regional high quality pork products and attitudes of consumers from various market areas, in particular the motives for the choice and willingness to pay such products.
- Marketing strategies in particular short chain distribution channels.

All activities will be driven from the perspective of sustainability (environmental impact, animal welfare, product quality, consumer acceptability and market potential). The activities will engage innovative approaches involving partners from different sectors. The ambition is to enhance existing and create new networks between academia and non-academia partners, within and between regions and to tackle the value chain for regional high quality pork products, focusing on diverse and so far untapped pig breeds, their production systems and pork products. Cross-fertilising interactions between research, local agriculture, businesses and end-users will be achieved with partners from these complementary sectors.

READ MORE:

http://cordis.europa.eu/project/rcn/193290_en.html
http://treasure.kis.si/

CALL FOR BLUE GROWTH: UNLOCKING THE POTENTIAL OF SEAS AND OCEANS

AORAC-SA

Atlantic Ocean Research Alliance Support Action

AT A GLANCE

Acronym: AORAC-SA
Call: H2020-BG-2014-1
Topic: BG-14-2014
Start date: 01/03/2015
End date: 01/03/2020
Duration: 60 months
Total Cost: € 4.295.137,50
EC Contribution: € 3.447.000,00
Consortium: 9 partners
Project Coordinator: Marine Institute, Ireland

PARTICIPANTS LIST

- *MARINE INSTITUTE*
- *MINISTERIO DA CIENCIA E TECNOLOGIA*
- *INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA*
- *CONSORCIO PARA EL DISENO, CONSTRUCCION, EQUIPAMIENTO Y EXPLOTACION DE LA PLATAFORMA OCEANICA DE CANARIAS*
- *INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER*
- *THE ICELANDIC CENTRE FOR RESEARCH*
- *HAVFORSKNINGSINSTITUTTET*
- *CIENCIA VIVA-AGENCIA NACIONAL PARA A CULTURA CIENTIFICA E TECNOLOGICA*
- *WOC - WORLD OCEAN LIMITED*

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.

READ MORE:

http://cordis.europa.eu/project/rcn/194807_en.html

ATLANTOS

Optimizing and Enhancing the Integrated Atlantic Ocean Observing System

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.

READ MORE:

http://cordis.europa.eu/project/rcn/193188_en.html
https://www.atlantos-h2020.eu/

AT A GLANCE

Acronym: AtlantOS

Call: H2020-BG-2014-2

Topic: BG-08-2014

Start date: 01/04/2015

End date: 01/07/2019

Duration: 51 months

Total Cost: € 20.652.921,00

EC Contribution: € 20.652.921,00

Consortium: 65 partners

Project Coordinator: Helmholtz Zentrum Fur Ozeanforschung Kiel, Germany

PARTICIPANTS LIST

- *HELMHOLTZ ZENTRUM FUR OZEANFORSCHUNG KIEL*
- *EUMETNET GROUPEMENT D INTERET ECONOMIQUE*
- *EUROGOOS AISBL*
- *VLAAMS INSTITUUT VOOR DE ZEE VZW*
- *MINISTERIO DA CIENCIA E TECNOLOGIA*
- *DALHOUSIE UNIVERSITY*
- *MEOPAR INCORPORATED*
- *ALFRED-WEGENER-INSTITUT HELMHOLTZ- ZENTRUM FUER POLAR- UND MEERESFORSCHUNG*
- *CONTROS SYSTEMS & SOLUTIONS GMBH*
- *DEVELOGIC GMBH*
- *KONSORTIUM DEUTSCHE MEERESFORSCHUNG E.V.*
- *MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V.*
- *RIBOCON GMBH*
- *UNIVERSITAET BREMEN*
- *DANMARKS METEOROLOGISKE INSTITUT*
- *DANMARKS TEKNISKE UNIVERSITET*
- *INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA*
- *AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS*
- *CONSORCIO PARA EL DISENO, CONSTRUCCION, EQUIPAMIENTO Y EXPLOTACION DE LA PLATAFORMA OCEANICA DE CANARIAS*
- *INSTITUTO ESPANOL DE OCEANOGRAFIA*
- *HAVSTOVAN*

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ATLANTOS

Optimizing and Enhancing the Integrated Atlantic Ocean Observing System

- *ACRI-ST SAS*
- *CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE*
- *COLLECTE LOCALISATION SATELLITES SA*
- *EURO-ARGO ERIC*
- *FONDATION EUROPEENNE DE LA SCIENCE*
- *IEEE FRANCE SECTION*
- *INSTITUT DE RECHERCHE POUR LE DEVELOPPEMENT*
- *INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER*
- *MERCATOR OCEAN*
- *NKE INSTRUMENTATION SARL*
- *UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION -UNESCO*
- *UNIVERSITE PIERRE ET MARIE CURIE - PARIS 6*
- *BRUNCIN*
- *DAITHI O'MURCHU MARINE RESEARCH STATION LTD*
- *MARINE INSTITUTE*
- *T.E. LABORATORIES LIMITED*
- *ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA*
- *CENTRO EURO-MEDITERRANEO SUI CAMBIAMENTI CLIMATICI SCARL*
- *CLU SRL*
- *ETT SPA*
- *MARIENE INFORMATIE SERVICE MARIS BV*
- *STICHTING NIOZ, KONINKLIJK NEDERLANDS INSTITUUT VOOR ONDERZOEK DER ZEE*
- *HAVFORSKNINGSINSTITUTTET*
- *NORSK INSTITUTT FOR VANNFORSKNING*
- *UNIVERSITETET I BERGEN*
- *INSTYTUT OCEANOLOGII POLSKIEJ AKADEMII NAUK*
- *CIIMAR - CENTRO INTERDISCIPLINAR DE INVESTIGAÇÃO MARINHA E AMBIENTAL*
- *IMAR- INSTITUTO DO MAR*
- *UNIVERSIDADE DO ALGARVE*
- *BLUE LOBSTER IT LIMITED*
- *EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS*
- *MET OFFICE*
- *NATURAL ENVIRONMENT RESEARCH COUNCIL*
- *PLYMOUTH MARINE LABORATORY*
- *SEASCAPE CONSULTANTS LTD*
- *SIR ALISTER HARDY FOUNDATION FOR OCEAN SCIENCE*
- *THE SCOTTISH ASSOCIATION FOR MARINESCIENCE LBG*
- *THE UNIVERSITY OF EXETER*
- *UNIVERSITY OF PLYMOUTH*
- *WOODS HOLE OCEANOGRAPHIC INSTITUTION*
- *COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH*

THIRD PARTIES

- *UNIVERSIDAD DE LAS PALMAS DE GRAN CANARIA*
- *ECOLE NORMALE SUPERIEURE*
- *METEO-FRANCE*
- *UNIVERSITY OF HAMBURG (UHAM)*
- *MARINE SCOTLAND SCIENCE (MSS)*
- *UNI RESEARCH AS (UNIRES)*
- *MARINE RESEARCH INSTITUTE (MRI)*
- *NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)*

BRIDGES

Bringing together Research and Industry for the Development of Glider Environmental Services

BRIDGES (Bringing together Research and Industry for the Development of Glider Environmental Services) will provide a necessary tool for further understanding, improved monitoring, and responsible exploitation of the marine environment while assuring its long-term preservation.

This new tool, a robust, cost-effective, re-locatable, versatile and easily-deployed ocean glider, will support autonomous, long-term in-situ exploration of the deep ocean at large spatio-temporal scales. The sole European underwater glider SeaExplorer will be modularized, new sensors will be developed, and the operational methodology will be modified.

SeaExplorer will be improved by:

- adapting for deep basins (up to 5000 m),
- implementing a novel payload architecture to increase autonomy and to accommodate the range of sensing capabilities needed, and
- integrating the associated control support system for single and networked operations (mission behaviour, data management, planning, communications).

The glider's sensing capabilities will be enhanced. The main modules are planned for:

- environmental monitoring for facilitating the effective implementation of an ecosystem-based management under the Marine Strategy Framework Directive,
- the oil and gas industry, and
- the deep sea mining industry. In order to achieve the technological objectives and meet service requirements, an open dialogue between stakeholders will be developed.

The basic premises of the present call "Delivering sub-sea technologies for new services at sea-BG-06-2014," are answered thoroughly: the ability to execute unmanned underwater operations, to operate in the deep ocean, and to assess the environmental impact of the maritime economy. In addition, this project will realize and promote the creation of collaborations among sensor and platform manufacturers, oil and gas and mining companies, public health and safety departments, and scientific and engineering experts.

READ MORE:

http://cordis.europa.eu/project/rcn/193329_en.html
http://www.bridges-h2020.eu/

AT A GLANCE

Acronym: BRIDGES

Call: H2020-BG-2014-2

Topic: BG-06-2014

Start date: 01/03/2015

End date: 01/03/2019

Duration: 48 months

Total Cost: € 7.791.810,00

EC Contribution: € 7.791.810,00

Consortium: 22 partners

Project Coordinator: Association pour la Recherche et le Developpement des Methodes et Processus Industriels, France

PARTICIPANTS LIST

- *ASSOCIATION POUR LA RECHERCHE ET LE DEVELOPPEMENT DES METHODES ET PROCESSUS INDUSTRIELS*
- *CYPRUS SUBSEA CONSULTING AND SERVICE C.S.C.S. LIMITED*
- *UNIVERSITY OF CYPRUS*
- *52°NORTH INITIATIVE FOR GEOSPATIAL OPEN SOURCE SOFTWARE GMBH*
- *ENITECH ENERGIETECHNIK - ELEKTRONIK GMBH*
- *ALBATROS MARINE TECHNOLOGIES SL*
- *ALSEAMAR*
- *ARCHITECTURE ET CONCEPTION DE SYSTEMES AVANCES*
- *HYDROPTIC SARL*
- *UNIVERSITE PIERRE ET MARIE CURIE - PARIS 6*
- *THE HEBREW UNIVERSITY OF JERUSALEM*
- *ECORYS NEDERLAND B.V.*
- *CHRISTIAN MICHELSEN RESEARCH AS*
- *INTERNATIONAL RESEARCH INSTITUTE OFSTAVANGER AS*
- *OCEANSCAN - MARINE SYSTEMS & TECHNOLOGY LDA*
- *UNIVERSIDADE DO PORTO*
- *BMT ISIS LIMITED*
- *NATURAL ENVIRONMENT RESEARCH COUNCIL*
- *SOCIETY FOR UNDERWATER TECHNOLOGY*
- *UNIVERSITY OF SOUTHAMPTON*
- *CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE*
- *ECOLE NATIONALE SUPERIEURE DE TECHNIQUES AVANCEES*

THIRD PARTIES

- *ARCHITECTURE ET CONCEPTION DE SYSTEMES AVANCES*
- *CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE*
- *ECOLE NATIONALE SUPERIEURE DE TECHNIQUES AVANCEES*

COLUMBUS

Monitoring, Managing and Transferring Marine and Maritime Knowledge for Sustainable Blue Growth

AT A GLANCE

Acronym: COLUMBUS

Call: H2020-BG-2014-1

Topic: BG-11-2014

Start date: 01/03/2015

End date: 01/03/2018

Duration: 36 months

Total Cost: € 3.997.488,00

EC Contribution: € 3.997.488,00

Consortium: 27 partners

Project Coordinator: Bord Iascaigh Mhara, Ireland

PARTICIPANTS LIST

- *BORD IASCAIGH MHARA*
- *EUROGOOS AISBL*
- *EUROPEAN AQUACULTURE SOCIETY*
- *EUROPEAN COUNCIL FOR MARITIME APPLIED R&D ASSOCIATION*
- *VLAAMS INSTITUUT VOOR DE ZEE VZW*
- *CENTER OF MARITIME TECHNOLOGIES EV*
- *FORSCHUNGSZENTRUM JULICH GMBH*
- *DANMARKS TEKNISKE UNIVERSITET*
- *EUROPAS MARITIME UDVIKLINGSCENTER*
- *INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA*
- *PANAGIOTIS CHRISTOFILOGIANNIS - IOANA TAVLA*
- *CENTRO TECNOLOGICO DEL MAR - FUNDACION CETMAR*
- *CONSORCIO PARA EL DISENO, CONSTRUCCION, EQUIPAMIENTO Y EXPLOTACION DE LA PLATAFORMA OCEANICA DE CANARIAS*
- *SOCIEDAD PARA EL FOMENTO DE LA INNOVACION TECNOLOGICA S.L. - INNOVATEC*
- *SOCIETE D'EXPLOITATION DU CENTRE NATIONAL DE LA MER*
- *UNIVERSITE PIERRE ET MARIE CURIE - PARIS 6*
- *AQUATT UETP LTD*
- *SMARTBAY IRELAND LIMITED*
- *NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU*
- *FUNDACAO EUROCEAN*
- *UNITATEA EXECUTIVA PENTRU FINANTAREA INVATAMANTULUI SUPERIOR, A CERCETARII, DEZVOLTARII SI INOVARII*
- *AQUATERA LIMITED*
- *MARINE SOUTH EAST*
- *NATURAL ENVIRONMENT RESEARCH COUNCIL*
- *SEASCAPE CONSULTANTS LTD*
- *THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS*

THIRD PARTIES

- *CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE*

We are standing at the dawn of a century that will be largely affected by how we as a society are able to manage our oceans and their resources. Marine and Maritime Research has a critical role to play in developing our understanding of the seas and advanced technology so that we can develop their economic potential in a sustainable manner.

The COLUMBUS project intends to capitalise on the EC's significant investment in marine research by ensuring accessibility and uptake of research Knowledge Outputs by end-users (policy, industry, science and wider society). COLUMBUS will ensure measurable value creation from research investments contributing to sustainable Blue Growth within the timeframe of the project. Adopting proven methodologies and building on significant past work, COLUMBUS will first identify end-user needs and priorities. It will then set about identifying and collecting "Knowledge Outputs" from past and current EC projects. Rigorous analysis will take place to identify specific applications and end-users. Transfer will be achieved and measured through tailor-made knowledge transfer. All knowledge collected will be made accessible through the pre-existing Marine Knowledge Gate (www.kg.eurocean.org).

A network of nine competence Nodes, each with a "Knowledge Fellow" and support team across Europe will provide the necessary critical mass (470pm of effort) to ensure full thematic and spatial coverage. COLUMBUS will also carry out strategic actions to enhance the visibility and impact of research to stakeholders and European Citizen's. Furthermore working with funding agencies and stakeholders, COLUMBUS will examine the feasibility of improved systems and processes to ensure measurable value creation from research.

To achieve the above, COLUMBUS has brought together a multi-disciplinary, multi-stakeholder team representing all aspects of the research value chain from funding agencies to end-users. Key strategic initiatives and networks further strengthen and provide a strong vehicle for project legacy.

READ MORE:

http://cordis.europa.eu/project/rcn/194809_en.html

DEXROV

Dexterous ROV: effective dexterous ROV operations in presence of communication latencies

Underwater operations (e.g. oil industry, off shore renewable energies, geology, archaeology, etc.) are demanding and costly activities for which ROV based setups are often deployed in addition to deep divers – contributing to operations risks and costs cutting. However the operation of a ROV requires significant off-shore dedicated manpower – such a setup typically requires a crew consisting of:

- an intendant,
- an operator, and
- a navigator. This is a baseline, and extra staffing is often provisioned.

Furthermore, customers' representatives often wish to be physically present at the off-shore location in order to advise on, or to observe the course of the operations. Associated costs are high. In order to reduce the burden of operations, DexROV will work out more cost effective and time efficient ROV operations, where manned support is in a large extent delocalized onshore (i.e. from a ROV control centre), possibly at a large distance from the actual operations - thus with latencies in the communication.

As a main strategy to mitigate them, DexROV will develop a real time simulation environment to accommodate operators' requests on the onshore side with no delays. The simulated environment will exploit cm accuracy 3D models of the environment built online by the ROV, using data acquired with underwater sensors (3D sonar and vision based). A dedicated cognitive engine will analyse user's control requests as done in the simulated environment, and will turn them into primitives that the ROV can execute autonomously in the real environment, despite the communication latencies. Effective user interfaces will be developed for dexterous manipulation, including a double advanced arm and hand force feedback exoskeleton.

The ROV will be equipped with a pair of new force sensing capable manipulators and dexterous end-effectors: they will be integrated within a modular skid. The outcomes of the project will be integrated and evaluated in a series of tests and evaluation campaigns, culminating with a realistic deep sea offshore trial.

READ MORE:

http://cordis.europa.eu/project/rcn/193333_en.html
http://www.dexrov.eu/

AT A GLANCE

Acronym: DexROV

Call: H2020-BG-2014-2

Topic: BG-06-2014

Start date: 01/03/2015

End date: 01/09/2018

Duration: 42 months

Total Cost: € 5.336.006,25

EC Contribution: € 4.631.182,50

Consortium: 9 partners

Project Coordinator: Space Applications Services NV, Belgium

PARTICIPANTS LIST

- *SPACE APPLICATIONS SERVICES NV*
- *FONDATION DE L'INSTITUT DE RECHERCHE IDIAP*
- *JACOBS UNIVERSITY BREMEN GGMBH*
- *COMPAGNIE MARITIME D EXPERTISES SA*
- *GRAAL TECH SRL*
- *UNIVERSITA DEGLI STUDI DI GENOVA*
- *EJR-QUARTZ BV*

THIRD PARTIES

- *UNIVERSITA DEGLI STUDI DI CASSINO E DEL LAZIO MERIDIONALE*
- *UNIVERSITA DEL SALENTO*

EU-POLARNET

Connecting Science with Society

AT A GLANCE

Acronym: EU-PolarNet

Call: H2020-BG-2014-1

Topic: BG-15-2014

Start date: 01/03/2015

End date: 01/03/2020

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

PARTICIPANTS LIST

- *ALFRED-WEGENER-INSTITUT HELMHOLTZ- ZENTRUM FUER POLAR- UND MEERESFORSCHUNG*
- *UNIVERSITAT WIEN*
- *INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE*
- *VRIJE UNIVERSITEIT BRUSSEL*
- *BULGARSKI ANTARKTICHESKI INSTITUT ASSOCIATION*
- *GEOLOGICAL SURVEY OF DENMARK AND GREENLAND*
- *TALLINNA TEHNIKAULIKOOL*
- *AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS*
- *MINISTERIO DE ECONOMIA Y COMPETITIVIDAD*
- *OULUN YLIOPISTO*
- *CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE*
- *INSTITUT POLAIRE FRANCAIS PAUL EMILE VICTOR*
- *GRONLANDS NATURINSTITUT*
- *CONSIGLIO NAZIONALE DELLE RICERCHE*
- *RIJKSUNIVERSITEIT GRONINGEN*
- *ARCTIC MONITORING AND ASSESSMENT PROGRAMME SECRETARIAT*
- *NORGES FORSKNINGSRAD*
- *INSTYTUT GEOFIZYKI POLSKIEJ AKADEMII NAUK*
- *INSTITUTO DE GEOGRAFIA E ORDENAMENTO DO TERRITORIO DA UNIVERSIDADE DE LISBOA*
- *POLARFORSKNINGSSEKRETARIETET*
- *NATURAL ENVIRONMENT RESEARCH COUNCIL*
- *WOC - WORLD OCEAN LIMITED*

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.

READ MORE:

http://cordis.europa.eu/project/rcn/194801_en.html
http://www.eu-polarnet.eu/

INMARE

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

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.

READ MORE:

http://cordis.europa.eu/project/rcn/193292_en.html

AT A GLANCE

Acronym: INMARE

Call: H2020-BG-2014-2

Topic: BG-04-2014

Start date: 01/04/2015

End date: 01/04/2019

Duration: 48 months

Total Cost: € 7.396.689,65

EC Contribution: € 5.999.557,13

Consortium: 25 partners

Project Coordinator: Bangor University, UK

PARTICIPANTS LIST

- *BANGOR UNIVERSITY*
- *THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO*
- *FACHHOCHSCHULE NORDWESTSCHWEIZ*
- *INOFEA AG*
- *BAYER TECHNOLOGY SERVICES GMBH*
- *CLUSTER INDUSTRIELLE BIOTECHNOLOGIE 2021 E.V.*
- *EVOCATAL GMBH*
- *HEINRICH-HEINE-UNIVERSITAET DUESSELDORF*
- *JACOBS UNIVERSITY BREMEN GGMBH*
- *UNIVERSITAET HAMBURG*
- *NOVOZYMES A/S*
- *THE RESEARCH COMMITTEE OF THE TECHNICAL UNIVERSITY OF CRETE*
- *AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS*
- *PHARMAMAR, S.A.U.*
- *UNIVERSITY COLLEGE CORK, NATIONAL UNIVERSITY OF IRELAND, CORK*
- *ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA*
- *CONSIGLIO NAZIONALE DELLE RICERCHE*
- *UNIVERSITA DEGLI STUDI DI MILANO*
- *VILNIAUS UNIVERSITETAS*
- *UNI RESEARCH AS*
- *UNIVERSITETET I BERGEN*
- *ASSOCIACAO DO INSTITUTO SUPERIOR TECNICO PARA A INVESTIGACAO E DESENVOLVIMENTO*
- *LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE*
- *SEASCAPE CONSULTANTS LTD*

THIRD PARTIES

- *UNIVERSIDAD AUTONOMA DE MADRID*

LAKHSMI

Sensors for LArge scale HydrodynaMic Imaging of ocean floor

AT A GLANCE

Acronym: LAkHsMI

Call: H2020-BG-2014-2

Topic: BG-09-2014

Start date: 01/04/2015

End date: 01/04/2019

Duration: 48 months

Total Cost: € 3.040.221,25

EC Contribution: € 3.040.221,25

Consortium: 6 partners

Project Coordinator: Tallinna Tehnikaulikool, Estonia

LAkHsMI will develop a new bio-inspired technology to make continuous and cost-effective measurements of the near-field, large-scale hydrodynamic situation, for environmental monitoring in cabled ocean observatories, marine renewable energy and port/harbor security. We will design, manufacture, and field test prototype smart sensor cables that measure differential pressure and temperature on the ocean floor and enable high resolution imaging of the surrounding volume in space and time, is simple, inexpensive and has very low power consumption.

The cables can be connecting with existing cabled ocean observatories. The technology is inspired by the biophysics of fish hydrodynamic sensing. The technology is scalable from meters to possibly hundreds of kilometres and allows a high sampling frequency. LAkHsMI will also develop innovative methods for hydrodynamic imaging. It produces several continuous on-line information products for interdisciplinary oceanography and seismic geophysics but also for other applications including tracking fish and fish schools or (sub) surface traffic in harbours. Software interfaces developed in the course of the project will be integrated with existing observatory systems (such as EUROGOOS).

LAkHsMI will design and implement the sensor cables on small large scales. Tests will be conducted in a tank, a pool, an in ocean observatory.

READ MORE:

http://cordis.europa.eu/project/rcn/193338_en.html

PARTICIPANTS LIST

- *TALLINNA TEHNIKAULIKOOL*
- *OU ELIKO TEHNOLOOGIA ARENDUSKESKUS*
- *RIJKSUNIVERSITEIT GRONINGEN*
- *AQUATERA LIMITED*
- *HERIOT-WATT UNIVERSITY*
- *HYDRO BOND ENGINEERING LIMITED*

MARIBE

Marine Investment for the Blue Economy

The primary aim of the MARIBE project is to unlock the sustainable growth and jobs potential of Blue Growth (BG). This aim will be fulfilled by identifying the most promising business models in the BG economy (in particular multi-purpose platforms).

Plans will be developed to overcome their challenges, propose how these models can be advanced to large scale pilot stage and test the feasibility of the recommended business models. The pilots will be enabled by securing support from the investment community and liaising with the EC to implement the outcomes of the project and continue funding support via H2020. The project will produce toolkits and guidelines for BG stakeholders and the investment community with regards to the BG socio-economic trends and technical and non-technical challenges as well as reports on best business models for BG.

The MARIBE consortium has connections to H2-Ocean, TROPOS and MERMAID but has the desired degree of independence and impartiality to ensure neutral business model assessment. The partnership comprises the full spectrum of academic and SME partners, including expertise from all relevant BG sectors. It includes the Food and Agriculture Organisation of the United Nations as a key global partner to secure a Trans-Atlantic pilot and Business Models Inc. as the business model expert.

Business models will first be mapped according to best practice methodology, cognisant of their value chains. The technical and non-technical challenges of the business will be measured based on their life cycle stage and proposals made for their mitigation. Key stakeholders from all sectors of Blue Economy to BG will be engaged, as well as key investors. Following these reviews and engagements, four Think Tank workshops will be organised to envision innovative new business models, in particular considering multipurpose platforms.

A final workshop will then define implementation plans for best business model for each of the four basins.

READ MORE:

http://cordis.europa.eu/project/rcn/194797_en.html
http://maribe.eu/

AT A GLANCE

Acronym: MARIBE

Call: H2020-BG-2014-1

Topic: BG-05-2014

Start date: 01/03/2015

End date: 01/09/2016

Duration: 18 months

Total Cost: € 1.977.951,25

EC Contribution: € 1.977.951,25

Consortium: 11 partners

Project Coordinator: University College Cork, National University Of Ireland, Cork, Ireland

PARTICIPANTS LIST

- *UNIVERSITY COLLEGE CORK, NATIONAL UNIVERSITY OF IRELAND, CORK*
- *ECOAST*
- *UNIVERSIDAD DE CANTABRIA*
- *FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS FAO*
- *AQUABIOTECH LIMITED*
- *BUSINESS MODELS INC BV*
- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *BVG ASSOCIATES LIMITED*
- *HERIOT-WATT UNIVERSITY*
- *SWANSEA UNIVERSITY*

THIRD PARTIES

- *UCC ACADEMY LIMITED*

MARISURF

Novel, Sustainable Marine Bio-Surfactant / Bio-Emulsifiers For Commercial Exploit

AT A GLANCE

Acronym: MARISURF

Call: H2020-BG-2014-2

Topic: BG-03-2014

Start date: 01/09/2015

End date: 01/09/2020

Duration: 60 months

Total Cost: € 4.749.647,50

EC Contribution: € 4.749.647,50

Consortium: 12 partners

Project Coordinator: Heriot-Watt University, UK

Surfactants and emulsifiers constitute an important class of chemical agents that are widely used in almost every sector of modern industry. The huge market demand is currently met almost exclusively by synthetic, mainly petroleum-based, chemical products, which are usually non-biodegradable and mostly toxic or GM plant based products (used in foods), which are undesirable by some end-users. Their biologically produced counterparts (i.e. bio-surfactants and bio-emulsifiers) offer more green sustainable alternatives. This has led to a number of manufactures looking for ways to increase competitiveness through searching for underexploited sources such as the marine environment.

Our objectives are to develop:

- innovative approaches in discovering, characterising and producing novel marine-derived bio-surfactants and bio-emulsifiers from a large bacterial collection (greater than 500 strains) housed at Heriot-Watt University, originally isolated from various coastal and open ocean waters around the world,
- novel, economic, and eco-friendly end-products with commercial applications in order to replace synthetic counterparts, and
- to demonstrate the functionality of new product development for commercial exploitation.

Our collection consists of novel bacterial species, originally isolated for their ability to degrade oils, with proven promise in this respect.

For this reason, our consortium (consisting of academic institutions, industrial companies and end users) offering a wide range of expertise, will address the technical bottlenecks for meeting our objectives, namely those of marine resource identification, sustainable supply, discovery pipeline and efficient production in biological systems.

The relevance of our proposal to the work programme is underlined by its expected impact in increasing efficiency of discovery pipelines, the development of more economic and eco-friendly end-products and finally in contributing to the implementation of the objectives of the EU Blue Growth.

READ MORE:

http://cordis.europa.eu/project/rcn/193327_en.html

PARTICIPANTS LIST

- *HERIOT-WATT UNIVERSITY*
- *BIO BASE EUROPE PILOT PLANT VZW*
- *NOVA-INSTITUT FUR POLITISCHE UND OKOLOGISCHE INNOVATION GMBH*
- *APIVITA KALLYNTIKA DIAITITIKA FARMAKA ANONYMI EMPORIKI KAI VIOTECHNIKIETAIREIA*
- *DEMOCRITUS UNIVERSITY OF THRACE*
- *UNIVERSITY OF PATRAS*
- *ACONDICIONAMIENTO TARRASENSE ASSOCIACION*
- *NANOIMMUNOTECH SL*
- *ECOTECHSYSTEMS SRL*
- *MACPHIE OF GLENBERVIE LTD*
- *MARLOW FOODS LIMITED*
- *UNIVERSITY OF ULSTER*

NOMORFILM

Novel marine biomolecules against biofilm - Application to medical devices

Microalgae are a source of secondary metabolites useful as new bioactive compounds. Activity of these compounds against bacterial pathogens and biofilm formation has not been determined yet. Biofilm formation is especially important in infections and tissue inflammation related to implants and catheters. These problems finally cause a release of the implant, which must be removed and replaced by a new one, entailing an increase in antibiotic consumption, together with a health costs of about 50,000-90,000 € per infection episode.

Taking both problems in account, the search of new antimicrobial agents that will be effective against the bacteria in their two ways of life, planktonic and biofilm stage, is a priority need in the clinical practice.

For this reason, the overall objective of NOMORFILM project is to search for antibiofilm compounds isolated from microalgae that will be useful in the treatment of this kind of infections and could be incorporated in the manufacturing of medical prosthetic devices. For this purpose, 4,000 microalgae species will be deeply screened specifically for new antibacterial and antibiofilm molecules. Structural elucidation of bioactive compounds from these extracts will assure that only new chemical entities, therefore with anticipated new mechanisms of action, will arise to further project stages, those including toxicity tests and animal models.

Most industrially interesting antibiofilm molecules will be incorporated into nanoparticles in order to develop manufacturing methodologies able to incorporate these compounds into real prosthetic devices matrixes. Marketing of results are assured by the presence of diverse SMEs along the manufacture and distribution of prosthetic devices, and the corresponding consortium agreements with respect to IPRs.

READ MORE:

http://cordis.europa.eu/project/rcn/193300_en.html

AT A GLANCE

Acronym: NOMORFILM

Call: H2020-BG-2014-2

Topic: BG-03-2014

Start date: 01/04/2015

End date: 01/04/2019

Duration: 48 months

Total Cost: € 7.651.315,75

EC Contribution: € 7.651.315,00

Consortium: 19 partners

Project Coordinator: Barcelona Institute for Global Health (ISGlobal), Spain

PARTICIPANTS LIST

- *BARCELONA INSTITUTE FOR GLOBAL HEALTH (ISGLOBAL)*
- *KOBENHAVNS UNIVERSITET*
- *PYROGENESIS SA*
- *MBA INCORPORADO SL*
- *UNIVERSIDAD DE ALMERIA*
- *UNIVERSIDAD DE OVIEDO*
- *UNIVERSITE PIERRE ET MARIE CURIE - PARIS 6*
- *THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN*
- *FOTOSINTETICA & MICROBIOLOGICA S.R.L.*
- *KTEDOGEN SRL*
- *UNIVERSITA DEGLI STUDI DI FIRENZE*
- *CIIMAR - CENTRO INTERDISCIPLINAR DE INVESTIGAÇÃO MARINHA E AMBIENTAL*
- *UNIVERSIDADE DE COIMBRA*
- *KAROLINSKA INSTITUTET*
- *NANOMEDPHARMA LTD*

THIRD PARTIES

- *HOSPITAL CLINIC I PROVINCIAL DE BARCELONA*
- *CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE*
- *NAICONS SRL*
- *UPPSALA UNIVERSITET*

PRIMEFISH

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

AT A GLANCE

Acronym: PrimeFish
Call: H2020-BG-2014-2
Topic: BG-10-2014
Start date: 01/03/2015
End date: 01/03/2019
Duration: 48 months
Total Cost: € 5.275.426,25
EC Contribution: € 4.997.912,50
Consortium: 16 partners
Project Coordinator: Matis OHF, Iceland

PARTICIPANTS LIST

- *MATIS OHF*
- *MEMORIAL UNIVERSITY OF NEWFOUNDLAND*
- *VEREIN ZUR FOERDERUNG DES TECHNOLOGIETRANSFERS AN DER HOCHSCHULE BREMERHAVEN E.V.*
- *AALBORG UNIVERSITET*
- *CENTRO TECNOLOGICO DEL MAR - FUNDACION CETMAR*
- *SP/F SYNTESA*
- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *UNIVERSITE DE SAVOIE*
- *HASKOLI ISLANDS*
- *UNIVERSITA DEGLI STUDI DI PARMA*
- *UNIVERSITA DEGLI STUDI DI PAVIA*
- *KONTALI ANALYSE AS*
- *NOFIMA AS*
- *UNIVERSITETET I TROMSOE*
- *THE UNIVERSITY OF STIRLING*
- *TRUONG DAI HOC NHA TRANG*

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 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.

READ MORE:

http://cordis.europa.eu/project/rcn/193349_en.html
http://www.primefish.eu/

RESPON-SEA-BLE

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

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:

- existing communication strategies, material and governance that focuses on the ocean;
- the values, perceptions and understanding of the state, functioning and role of the ocean by different types of stakeholders and of the wider public;
- 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.

READ MORE:

http://cordis.europa.eu/project/rcn/194803_en.html
http://www.responseable.eu/

AT A GLANCE

Acronym: Respon-SEA-ble
Call: H2020-BG-2014-1
Topic: BG-13-2014
Start date: 01/04/2015
End date: 01/04/2019
Duration: 48 months
Total Cost: € 3.696.644,00
EC Contribution: € 3.696.644,00
Consortium: 18 partners
Project Coordinator: ACTEON SARL, France

PARTICIPANTS LIST

- *ACTEON SARL*
- *BALTIC ENVIRONMENTAL FORUM DEUTSCHLAND EV*
- *SEVEN ENGINEERING CONSULTANTS OE*
- *FUNDACION AZTI - AZTI FUNDAZIOA*
- *UNIVERSITE DE BRETAGNE OCCIDENTALE*
- *NATIONAL UNIVERSITY OF IRELAND, GALWAY*
- *CSP - INNOVAZIONE NELLE ICT S.C.A.R.L.*
- *STICHTING PROSEA MARINE EDUCATION*
- *NORSK INSTITUTT FOR VANNFORSKNING*
- *STIFTELSEN GRID ARENDAL*
- *COFAC COOPERATIVA DE FORMACAO E ANIMACAO CULTURAL CRL*
- *INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE DELTA DUNARII*
- *TELEVISION FOR THE ENVIRONMENT*
- *THE MARINE FOUNDATION LIMITED*
- *UNIVERSITY OF PLYMOUTH*

THIRD PARTIES

- *BALTI KESKKONNAFOORUM*
- *BALTIJOS APLINKOS FORUMAS VSI*
- *BALTIJAS VIDES FORUMS*

SEA CHANGE

SeaChange

AT A GLANCE

Acronym: SeaChange

Call: H2020-BG-2014-1

Topic: BG-13-2014

Start date: 01/03/2015

End date: 01/03/2018

Duration: 36 months

Total Cost: € 3.494.876,00

EC Contribution: € 3.494.876,00

Consortium: 17 partners

Project Coordinator: Marine Biological Association of the United Kingdom, UK

PARTICIPANTS LIST

- *MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM*
- *ASSOCIATION EUROPEENNE DES EXPOSITIONS SCIENTIFIQUES TECHNIQUES ET INDUSTRIELLES*
- *EUROGEO VZW*
- *RESEAU OCEAN MONDIAL AISBL*
- *VLAAMS INSTITUUT VOOR DE ZEE VZW*
- *DANMARKS TEKNISKE UNIVERSITET*
- *HELLENIC CENTRE FOR MARINE RESEARCH*
- *ASSOCIACIO SUBMON: DIVULGACIO, ESTUDI I CONSERVACIO DE L'ENTORN NATURAL*
- *FONDATION EUROPEENNE DE LA SCIENCE*
- *UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION -UNESCO*
- *AQUATT UETP LTD*
- *NATIONAL UNIVERSITY OF IRELAND, GALWAY*
- *CIENCIA VIVA-AGENCIA NACIONAL PARA A CULTURA CIENTIFICA E TECNOLOGICA*
- *CIIMAR - CENTRO INTERDISCIPLINAR DE INVESTIGAÇÃO MARINHA E AMBIENTAL*
- *GOETEBORGS UNIVERSITET*
- *COEXPLORATION LIMITED*
- *THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS*

THIRD PARTIES

- *NATIONAL MARINE SCIENCES EDUCATION ASSOCIATION*
- *CENTERS FOR OCEAN SCIENCES EDUCATION EXCELLENCE*
- *THE CANADIAN NETWORK FOR OCEAN EDUCATION*
- *NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION*

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.

READ MORE:

http://cordis.europa.eu/project/rcn/194804_en.html
http://www.seachangeproject.eu/

SUCCESS

Strategic Use of Competitiveness towards Consolidating the Economic Sustainability of the European Seafood sector

SUCCESS is bringing together an integrated team of scientists from all fields of fisheries and aquaculture science with industry partners and key stakeholders to work on solutions which shall improve the competitiveness of the European fisheries and aquaculture sector.

The supply-side of seafood markets is limited from both sea fisheries and aquaculture. At the same time demand for seafood products is increasing. In a globalised economy, the conjunction of these two trends should generate high opportunities for any seafood production activity. However, both fisheries and aquaculture companies are facing key challenges, which currently hinder them reaping the full benefits of seafood markets expansion, and even question their sustainability.

As a whole, the EU fisheries sector remains at low levels of profitability and sustainability. The SUCCESS project will examine two strategies to improve the competitiveness of the sector:

- increasing demand for EU seafood products, especially improving the awareness of the advantages of European production (including sustainability requirements and adjustment to market evolution); and
- cost reduction in certain production segments.

For both strategies development on world markets as well as consumer preferences and awareness will be analysed. Additionally, SUCCESS will explore the different sectors along the value chain (from fisheries and aquaculture producers via processing companies, wholesalers, retailers to direct marketing to mobile fishmongers and restaurants) and their potential for improvements in competitiveness.

These analyses also include long term predictions about the viability of certain production systems and will be considered in specific case studies on for example mussel production, shrimp fisheries, whitefish, traditional pond aquaculture and new aquaculture production systems.

READ MORE:

http://cordis.europa.eu/project/rcn/193322_en.html
http://www.success-h2020.eu/

AT A GLANCE

Acronym: SUCCESS

Call: H2020-BG-2014-2

Topic: BG-10-2014

Start date: 01/04/2015

End date: 01/04/2018

Duration: 36 months

Total Cost: € 5.207.821,75

EC Contribution: € 4.998.290,25

Consortium: 24 partners

Project Coordinator: Université de Bretagne Occidentale, France

PARTICIPANTS LIST

- *UNIVERSITE DE BRETAGNE OCCIDENTALE*
- *BUNDESVERBAND DER DEUTSCHEN FISHINDUSTRIE UND DES FISCHGROSSHANDELS E.V.*
- *JOHANN HEINRICH VON THUENEN-INSTITUT, BUNDESFORSCHUNGSINSTITUT FUER LAENDLICHE RAEUME, WALD UND FISCHEREI*
- *ALEXANDER TECHNOLOGICAL EDUCATIONAL INSTITUTE OF THESSALONIKI (TECHNOLOGIKO EKPAIDEFTIKO IDRYMA THESSALONIKIS)*
- *ASOCIACION DE MAYORISTAS DE PESCADOS DEL PRINCIPADO DE ASTURIAS*
- *DUCAMAR SPAIN SL*
- *FRIGORIFICOS ORTIZ SA*
- *FUNDACION CENTRO TECNOLOGICO ACUICULTURA DE ANDALUCIA*
- *RODECAN SL*
- *UNIVERSIDAD DE CANTABRIA*
- *LUONNONVARAKESKUS*
- *FISH-PASS*
- *INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER*
- *PECHEURS DE MANCHE ET D'ATLANTIQUESA*
- *WEMAKE SARL*
- *HASKOLI ISLANDS*
- *ICELAND SEAFOOD INTERNATIONAL EHF*
- *MARKMAR EHF*
- *NISEA SOCIETA COOPERATIVA*
- *UNIVERSITA DEGLI STUDI DI PALERMO*
- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *MORSKI INSTYTUT RYBACKI - PANSTWOWY INSTYTUT BADAWCZY*
- *KILIC DENIZ URUNLERI URETIMI IHRACAT ITHALAT VE TICARET AS*
- *FISHOR CONSULTING LTD*

TASCMAR

Tools and Strategies to access original bioactive compounds from Cultivation of MARine invertebrates and associated symbionts

AT A GLANCE

Acronym: TASCMAR

Call: H2020-BG-2014-2

Topic: BG-03-2014

Start date: 01/04/2015

End date: 01/04/2019

Duration: 48 months

Total Cost: € 6.758.452,50

EC Contribution: € 6.755.950,25

Consortium: 13 partners

Project Coordinator: Centre National de la Recherche Scientifique, France

TASCMAR project aspires to develop new tools and strategies in order to overcome existing bottlenecks in the biodiscovery and industrial exploitation of novel marine derived biomolecules (secondary metabolites and enzymes) with applications in the pharmaceuticals, nutraceuticals, cosmeceuticals and fine chemicals industries.

Exploitation of neglected and underutilized marine invertebrates and symbionts from the mesophotic zone will be combined with innovative approaches for the cultivation and extraction of marine organisms from lab to pilot-scale, using the unique prototypes Platotex™ and Zippertex™, both reaching the Technology Readiness Level 7. Thus, marine dedicated cultivation and extraction equipment will be built and validated.

These unique improvements will ensure sustainable supply of biomass and promote the production of high added value bioactive marine compounds. An integrated, holistic technological metabolomic approach will be applied, in conjunction with bioactivity profiling, as filtering and bio-prioritisation tools. Moreover, state-of-the-art analytical instrumentation and in-house databases will be employed for the dereplication and characterization of valuable compounds.

A panel of libraries (marine organisms, extracts, pure metabolites and biocatalysts) will be constructed and exploited throughout the project. A focused panel of in-vitro, cell-based, in-ovo and in-vivo bioassays for discovering metabolites with anti-ageing and/ or angiogenesis modulating activity will frame the entire work-flow and will reveal the lead compounds. In addition, the catalytic potential of mesophotic symbionts and deriving enzymes candidates will be evaluated in the fine chemicals and bioremediation industries.

The project activities will be constantly assessed via effective management for their societal, economic and environmental impact in order to find the best compromise between industrial development and sustainable growth.

READ MORE:

http://cordis.europa.eu/project/rcn/193302_en.html
http://www.tascmar.eu/

PARTICIPANTS LIST

- *CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE*
- *CRELUX GMBH*
- *APIVITA KALLYNTIKA DIAITITIKA FARMAKA ANONYMI EMPORIKI KAI VIOTECHNIKIETAIREIA*
- *ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON*
- *IMARE NATURAL SL*
- *PIERRE GUERIN SAS*
- *UNIVERSITE DE LA REUNION*
- *ASSOCIATION ECO OCEAN*
- *TEL AVIV UNIVERSITY*
- *BICT SRL*
- *T6 ECOSYSTEMS SRL*
- *ASTAREAL AB*
- *CHULALONGKORN UNIVERSITY*

UTOFIA

Underwater Time Of Flight Image Acquisition system

UTOFIA will offer a compact and cost-effective underwater imaging system for turbid environments. Using range-gated imaging, the system will extend the imaging range by factor 2 to 3 over conventional video systems, while at the same time providing video-rate 3D information. This will fill the current gap between short-range, high-resolution conventional video and long-range low-resolution sonar systems.

UTOFIA offers a new modus operandi for the main targeted domains of application: marine life monitoring, harbour and ocean litter detection, fisheries and aquaculture stock assessment, and seabed mapping.

READ MORE:

http://cordis.europa.eu/project/rcn/193162_en.html
http://www.utofia.eu/

AT A GLANCE

Acronym: UTOFIA
Call: H2020-BG-2014-2
Topic: BG-09-2014
Start date: 01/02/2015
End date: 01/05/2018
Duration: 39 months
Total Cost: € 5.716.971,00
EC Contribution: € 5.716.971,00
Consortium: 7 partners
Project Coordinator: Stiftelsen Sintef, Norway

PARTICIPANTS LIST

- *STIFTELSEN SINTEF*
- *FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV*
- *DANMARKS TEKNISKE UNIVERSITET*
- *FUNDACION AZTI - AZTI FUNDAZIOA*
- *SUBSEA TECH SAS*
- *BRIGHT SOLUTIONS S.R.L.*
- *ODOS IMAGING LIMITED*

CALL FOR AN INNOVATIVE, SUSTAINABLE AND INCLUSIVE BIOECONOMY

AGRISPIN

Space for Agricultural Innovation

AT A GLANCE

Acronym: AGRISPIN

Call: H2020-ISIB-2014-1

Topic: ISIB-02-2014

Start date: 01/03/2015

End date: 01/09/2017

Duration: 30 months

Total Cost: € 1.994.306,75

EC Contribution: € 1.994.306,25

Consortium: 20 partners

Project Coordinator: SEGES PS, Denmark

PARTICIPANTS LIST

- *SEGES PS*
- *BOERENBONDVERENIGING VOOR PROJECTEN VZW*
- *UNIVERSITAET HOHENHEIM*
- *VERBAND DER LANDWIRTSCHAFTSKAMMERNEV*
- *AGRICULTURAL UNIVERSITY OF ATHENS*
- *FUNDACION HAZI FUNDAZIOA*
- *PROAGRIA ETELA-POHJANMAA RY*
- *ASSOCIATION DE COORDINATION TECHNIQUE AGRICOLE*
- *CENTRE DE COOPERATION INTERNATIONAL EN RECHERCHE AGRONOMIQUE POUR LE DEVELOPPEMENT*
- *TEAGASC - AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY*
- *REGIONE TOSCANA*
- *LATVIJAS LAUKU KONSULTACIJU UN IZGLITIBAS CENTRS*
- *ZUIDELIJKE LAND- EN TUINBOUWORGANISATIE VERENIGING*
- *FUNDATIA ADEPT TRANSILVANIA*
- *INTERNATIONAL FEDERATION OF ORGANIC AGRICULTURE MOVEMENTS EUROPEAN UNION REGIONAL GROUP*

THIRD PARTIES

- *ANDREAS HERMES AKADEMIE IM BILDUNGSWERK DER DEUTSCHEN LANDWIRTSCHAFT EV*
- *FIBL PROJEKTE GMBH*
- *INTERNATIONALE AKADEMIE LAND- UND HAUSWIRTSCHAFTLICHER BERATERINNEN UND BERATER EV*
- *INSTITUT TECHNIQUE DE L AGRICULTURE BIOLOGIQUE*
- *UNIVERSITA DI PISA*

AgriSPIN identifies best practice for innovation and support systems.

Far from all innovation processes succeed.

In fact, many go away even before they begin. So what makes an innovation process move forward? And what stops it? The EU-project “AgriSPIN – Space for innovations in Agriculture” seeks to find the answers to those questions and many more by identifying best practices for innovation and support systems in European agriculture.

At the kickoff meeting in March of 2015, AgriSPIN officially started the process of hunting down “Space for innovations in Agriculture”. By uncovering the so-called blind spots in innovation projects, AgriSPIN’s goal is to contribute to improved methods of innovation in European agriculture.

Blind spots in an innovation project are all the important subprocesses which the participants may not view as critical to the project. Nevertheless, the entire project could fail if one or several of these subprocesses are derailed.

For example, blind spots can occur in the collaboration between a farmer who has an innovative idea and his advisor to whom he turns for advice. If they understand each other, chances are that the appropriate supportive measures will be put into play. If not, the chances of that happening are a lot slimmer.

The AgriSPIN project will examine the practice of innovation today by answering questions such as: How does the European farmer seek information and support? What competencies does he expect of his advisor? What kind of support system is in place today? By doing so, AgriSPIN intends to uncover best cases for innovation and identify the type of innovation support system that makes for the most optimal innovation process.

To ensure that the knowledge accumulated in the project is disseminated to as many stakeholders as possible, AgriSPIN will work towards creating a powerful European network among advisors, researchers, organisational experts and innovation companies.

By establishing a strong innovation network between the partners of the AgriSPIN project as well as reaching out to European agricultural networks, innovation networks, EU-funded innovation projects and to politicians, on a European, regional and national level, AgriSPIN hopes to contribute to a strengthened innovation effort in European agriculture.

READ MORE:

http://cordis.europa.eu/project/rcn/194802_en.html

BIOHORIZON

Cooperation between NCPs for Horizon 2020 Societal Challenge 2 on "Food security, Sustainable Agriculture, Marine and Maritime Research and the Bioeconomy" and the Key Enabling Technology

BioHorizon is a project funded by the European Commission under the Horizon 2020 programme. Its purpose is to align and enhance the services that National Contact Points (NCPs) for the Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy (Societal Challenge 2 - SC2), as well as the KET-Biotechnology provide to potential beneficiaries of European funding for Food Security research across Europe and worldwide.

The Biohorizon network of National Contact Points assists various parties by providing tailor-made information and also offers support in consortium building by locating suitable project partners and organising matchmaking events.

Our support aims to help improve the quality of research project proposals submitted in the SC2 and KET-Biotechnology and to lower the barriers for newcomers, in particular new commerce and SMEs.

Finally, BioHorizon aims to improve the quality of NCP services throughout Europe by exchange of best practices, experience and common tools.

Activities:

Applying for funding from Horizon2020 calls will made easier for the applicants as they will be able to participate in a series of brokerage events in Brussels and cross-border and thematic brokerage events located in different parts of Europe. The brokerage events together with the establishment of a high quality database with potential participant's profiles will create the foundation for efficient matchmaking between interested parties from industry and academia. In turn, this will facilitate widening participation of the EU 28 and will allow the involvement of new stakeholders.

READ MORE:

http://cordis.europa.eu/project/rcn/194799_en.html
http://www.ncp-biohorizon.net/

AT A GLANCE

Acronym: BioHorizon

Call: H2020-ISIB-2014-1

Topic: ISIB-09-2014

Start date: 01/03/2015

End date: 01/03/2019

Duration: 48 months

Total Cost: € 2.089.912,50

EC Contribution: € 1.999.631,25

Consortium: 16 partners

Project Coordinator: Instytut Podstawowych Problemow Techniki Polskiej Akademii Nauk, Poland

PARTICIPANTS LIST

- *INSTYTUT PODSTAWOWYCH PROBLEMOW TECHNIKI POLSKIEJ AKADEMII NAUK*
- *AGENCE BRUXELLOISE POUR L'ENTREPRISE*
- *VEREIN EURESEARCH*
- *TECHNOLOGICKE CENTRUM AKADEMIE VED CESKE REPUBLIKY*
- *FORSCHUNGSZENTRUM JULICH GMBH*
- *FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS*
- *ASSOCIATION DE COORDINATION TECHNIQUE POUR L'INDUSTRIE AGROALIMENTAIRE*
- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *AGENCIJA ZA MOBILNOST I PROGRAME EUROPSKE UNIJE*
- *MATIMOP, ISRAELI INDUSTRY CENTER FOR RESEARCH & DEVELOPMENT*
- *THE ICELANDIC CENTRE FOR RESEARCH*
- *AGENZIA PER LA PROMOZIONE DELLA RICERCA EUROPEA*
- *CENTRUL PROIECTE INTERNATIONALE*
- *MINISTERIE VAN ECONOMISCHE ZAKEN*
- *FUNDACAO PARA A CIENCIA E A TECNOLOGIA*
- *TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU*

BIOSTEP

Promoting stakeholder engagement and public awareness for a participative governance of the European bioeconomy

AT A GLANCE

Acronym: BioSTEP

Call: H2020-ISIB-2014-1

Topic: ISIB-08a-2014

Start date: 01/03/2015

End date: 01/03/2018

Duration: 36 months

Total Cost: € 1.760.581,25

EC Contribution: € 1.758.081,25

Consortium: 9 partners

Project Coordinator: Ecologic Institut Gemeinnützige GmbH, Germany

The bioeconomy holds potential solutions to important challenges of the future. The social, economic and environmental impacts associated with its products and processes, however, will require extensive dialogue processes on the future development of the bioeconomy.

For this purpose, BioSTEP will apply a three-tier approach which aims at reaching all relevant actors in the bioeconomy domain, particularly policy makers, various stakeholder groups (scientists, business, non-governmental organisations, etc.), and citizens. Tailored communication tools, including workshops, conferences and exhibitions, will be developed for each target group in order to maximize outreach and to facilitate active engagement in public debates on the bioeconomy.

At a regional level, a 'living lab' approach will be applied and tested, which facilitates the involvement of public-private networks of stakeholders in bioeconomy-based innovation and business model development processes.

READ MORE:

http://cordis.europa.eu/project/rcn/194808_en.html
http://bio-step.eu/

PARTICIPANTS LIST

- *ECOLOGIC INSTITUT GEMEINNÜTZIGE GMBH*
- *BULGARIAN INDUSTRIAL ASSOCIATION - UNION OF THE BULGARIAN BUSINESS*
- *BIOCOM*
- *WIRTSCHAFT UND INFRASTRUKTUR GMBH & CO PLANUNGS KG*
- *AGHETERA SAS DI VALE MANFREDI & C*
- *UNIONE REGIONALE DELLE CAMERE DI COMMERCIO INDUSTRIA, ARTIGIANATO E AGRICOLTURA DEL VENETO*
- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *THE UNIVERSITY OF NOTTINGHAM*
- *UNIVERSITY OF STRATHCLYDE*

BIOLINX

Creating links to speed-up innovation in the bio economy

Creating links to speed-up innovation in the bioeconomy is not only the full title of the BioLinX project, but also the prime goal of the project. Migration towards a more bio-based economy offers important opportunities for Europe, both in terms of ecology and in terms of economy. Across Europe, researchers, governments and industries from various sectors and regions are starting to establish the contours of an advanced biobased economy that will make us less dependent on oil and other fossil fuels. Moreover, the bio-based economy provides a basis for a green growth strategy for Europe's industrial sectors (e.g. chemistry, energy).

Fully aware of the potential of the bioeconomy for the EU, the European Commission has successfully supported a large number of bioeconomy related research and innovation activities during the Seventh Framework Programme (FP7) and will continue to do so under Horizon 2020. However, despite the belief in the potential of the bioeconomy and the promising research results achieved during EU-funded and other activities, a range of hurdles slow down the pace of innovation and market exploitation of research results in the bioeconomy.

BioLinX will bridge research and innovation efforts in the bioeconomy by building three large clusters in Europe and initiating within them a range of powerful linking and innovation acceleration processes. The BioLinX partners have leading roles in the bioeconomies of South West Netherlands and Flanders, the Nordic Countries and Northern Italy and have a strong foothold in the lignocellulose, agro- and agro-waste feedstock sectors.

As a start BioLinX will select and scout more than 60 high potential bio-economy projects based on which links between the projects and with key regional Bioeconomy clusters (based on Smart Specialisation Strategies or equivalent (public available) information) can be identified. The relevant partners of the selected projects and regions will be invited to participate in the BioLinX Innovation Linking & Support Program. This program consist of activities focusing on Brokerage (to allow partnering), Innovation Incubation (to further stimulate the development in the project), Business development (to support development of new ideas and projects), Finance & Funding (to enable entrepreneurial behavior and funding for the future developments) and will identify and share good practices (to enable future learning). BioLinX will be complemented with activities on advocacy, communication and dissemination. BioLinX allows parties to exchange knowledge, know-how, market insights, innovation support mechanisms, open innovation experience, funding opportunities (both public and private) and more.

READ MORE:

http://cordis.europa.eu/project/rcn/196888_en.html

AT A GLANCE

Acronym: BioLinX

Call: H2020-ISIB-2014-1

Topic: ISIB-08b-2014

Start date: 01/07/2015

End date: 01/07/2018

Duration: 36 months

Total Cost: € 2.000.096,26

EC Contribution: € 1.997.434,26

Consortium: 11 partners

Project Coordinator: Rewin Projecten BV, The Netherlands

PARTICIPANTS LIST

- *REWIN PROJECTEN BV*
- *EUROPE UNLIMITED S.A.*
- *DECHEMA GESELLSCHAFT FUER CHEMISCHE TECHNIK UND BIOTECHNOLOGIE E.V.*
- *PNO CONSULTANTS GMBH*
- *INNOVATION ENGINEERING SRL*
- *SC SVILUPPO CHIMICA S.P.A*
- *NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO*
- *NV REWIN WEST BRABANT*
- *SP SVERIGES TEKNISKA FORSKNINGSINSTITUT AB*

THIRD PARTIES

- *PNO INNOVATION*
- *PROCESSUM BIOREFINERY INITIATIVE AB*

COMMBEBIZ

Communicating and Bridging BioEconomy Research to Business

AT A GLANCE

Acronym: CommBeBiz

Call: H2020-ISIB-2014-1

Topic: ISIB-08b-2014

Start date: 01/03/2015

End date: 01/03/2018

Duration: 36 months

Total Cost: € 1.695.091,25

EC Contribution: € 1.672.591,00

Consortium: 4 partners

Project Coordinator: Minerva Health & Care Communications LTD, UK

PARTICIPANTS LIST

- *MINERVA HEALTH & CARE COMMUNICATIONS LTD*
- *EUROPEAN BUSINESS AND INNOVATION CENTRE NETWORK*
- *PRACSIS SPRL*
- *TEAGASC - AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY*

CommBeBiz supports EC-funded Bioeconomy research projects to communicate their ideas, work and results to key stakeholders, contributing to the global drive to improve the sustainable use of our natural resources.

Through the creation of the CommBeBiz network and 5 Bioeconomy segments - Food, Agriculture, Fisheries, Forestry, and Biotechnology- the project facilitates the exchange of ideas and transfer of knowledge and expertise between researchers, start-ups, SMEs, accelerator programmes, investors, policy-players, social entrepreneurs & media.

CommBeBiz offers expert support to researchers and their projects in producing effective written and designed materials; on-line and in person presentations targeted at priority stakeholders; one–on-one reality checks from industry, social innovation and policy experts; and in dealing with and promoting their research to specialist & consumer broadcast, online and print media.

The CommBeBiz Annual Awards will provide 45 winning projects with a tailored support package, provided by Innovation experts, matched for their sector expertise.

CommBeBiz will capitalize on the experiences gained throughout the project by creating and cascading the BeBiz*BluePrint*, a practical handbook on successful approaches to driving effective transfer and exploitation of knowledge.

READ MORE:

http://cordis.europa.eu/project/rcn/194810_en.html
http://commbebiz.eu/

COSMOS

Camelina & crambe Oil crops as Sources for Medium-chain Oils for Specialty oleochemicals

COSMOS aims to reduce Europe's dependence on imported coconut, palm kernel and castor oil as sources for medium-chain fatty acids (MCFA, C10–C14) and medium-chain polymer building blocks. These are needed by the oleochemical industry for the production of plastics, surfactants, detergents, lubricants, plasticisers and other products. COSMOS wants to address this demand by turning camelina and crambe into profitable, sustainable, multipurpose, non-GMO European oil crops for the production of oleochemicals.

Seed properties will be optimised through genetic techniques. Field trials will be performed at different locations in Europe to assess the potential of the crops. Extracted oils will be separated into mono- and polyunsaturated fractions by selective enzyme technologies and extraction processes. Monounsaturated long-chain fatty acids will be converted through chemical chain cleavage processes to MCFA and high-value building blocks. Polyunsaturated fatty acids will be selectively hydrogenated to produce higher value unusual monounsaturated fatty acids.

Oil yield and crop value will be increased significantly by feeding the crop's vegetative tissues to insects producing high-value oils and proteins. Insects will be selected for synergy with the crops, but also for their tolerance to anti-nutritional compounds.

Next to the direct substitution of coconut and palm kernel oil, a whole range of other conventional raw materials and products will be substituted additionally. This approach is expected to be economically viable and associated with a lot of environmental and social benefits. The overall economic, social and environmental sustainability based on complete life cycles of the whole value chain will be assessed.

READ MORE:

http://cordis.europa.eu/project/rcn/193330_en.html

AT A GLANCE

Acronym: COSMOS

Call: H2020-ISIB-2014-2

Topic: ISIB-05-2014

Start date: 01/03/2015

End date: 01/09/2019

Duration: 54 months

Total Cost: € 10.811.197,50

EC Contribution: € 10.811.197,50

Consortium: 18 partners

Project Coordinator: Stichting Dienst Landbouwkundig Onderzoek, The Netherlands

PARTICIPANTS LIST

- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *ENZYMICALS AG*
- *ERNST-MORITZ-ARNDT-UNIVERSITÄT GREIFSWALD*
- *IFEU - INSTITUT FUER ENERGIE- UND UMWELTFORSCHUNG HEIDELBERG GMBH*
- *NOVA-INSTITUT FUR POLITISCHE UND OKOLOGISCHE INNOVATION GMBH*
- *CENTRE FOR RENEWABLE ENERGY SOURCESAND SAVING FONDATION*
- *SOLUTEX GC SL*
- *ARKEMA FRANCE SA*
- *UNIVERSITE DE RENNES I*
- *ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA*
- *VALSTYBINIS MOKSLINIU TYRIMU INSTITUTAS FIZINIU IR TECHNOLOGIJOS MOKSLU CENTRAS*
- *INCATT BV*
- *KRECA ENTO FEED BV*
- *LINNAEUS PLANT SCIENCE BV*
- *WAGENINGEN UNIVERSITY*
- *APEIRON SYNTHESIS SPOLKA AKCYJNA*
- *UNIWERSYTET WARMINSKO MAZURSKI W OLSZTYNIE*
- *IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE*

DIABOLO

Distributed, integrated and harmonised forest information for bioeconomy outlooks

AT A GLANCE

Acronym: DIABOLO

Call: H2020-ISIB-2014-2

Topic: ISIB-04a-2014

Start date: 01/03/2015

End date: 01/03/2019

Duration: 48 months

Total Cost: € 4.998.970,00

EC Contribution: € 4.734.594,50

Consortium: 34 partners

Project Coordinator: Luonnonvarakeskus, Finland

PARTICIPANTS LIST

- *LUONNONVARAKESKUS*
- *BUNDESFORSCHUNGS-UND AUSBILDUNGSZENTRUM FÜR WALD, NATURGEFAHREN UND LANDSCHAFT*
- *INTERNATIONALES INSTITUT FUER ANGEWANDTE SYSTEMANALYSE*
- *JOANNEUM RESEARCH FORSCHUNGSGESELLSCHAFT MBH*
- *UNIVERSITE DE LIEGE*
- *EIDGENOESSISCHE FORSCHUNGSANSTALT WSL*
- *ÚSTAV PRO HOSPODÁŘSKOU ÚPRAVU LESŮ BRANDÝS NAD LABEM*
- *ALBERT-LUDWIGS-UNIVERSITAET FREIBURG*
- *FORSTLICHE VERSUCHS- UND FORSCHUNGSANSTALT BADEN-WUERTTEMBERG*
- *JOHANN HEINRICH VON THUENEN-INSTITUT, BUNDESFORSCHUNGSINSTITUT FUER LAENDLICHE RAEUME, WALD UND FISCHEREI*
- *KOBENHAVNS UNIVERSITET*
- *KESKKONNAAGENTUUR*
- *UNIVERSITY OF PATRAS*
- *INSTITUTO NACIONAL DE INVESTIGACION Y TECNOLOGIA AGRARIA Y ALIMENTARIA*
- *UNIVERSIDAD DE SANTIAGO DE COMPOSTELA*
- *UNIVERSIDAD POLITECNICA DE MADRID*
- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *INSTITUT NATIONAL DE L'INFORMATIONGEOGRAPHIQUE ET FORESTIERE*
- *NEMZETI ELELMISZERLANC-BIZTONSAGI HIVATAL*
- *DEPARTMENT OF AGRICULTURE, FOOD AND THE MARINE*
- *UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN*
- *CONSIGLIO PER LA RICERCA IN AGRICOLTURA E L'ANALISI DELL'ECONOMIA AGRARIA*
- *ALEKSANDRO STULGINSKIO UNIVERSITETAS*
- *LATVIJAS VALSTS MEZZINATNES INSTITUTS SILAVA*
- *NORSK INSTITUTT FOR SKOG OG LANDSKAP*
- *INSTITUTO SUPERIOR DE AGRONOMIA*
- *INSTITUTUL DE CERCETARI SI AMENAJARI SILVICE*
- *UNIVERSITY OF BELGRADE-FACULTY OF FORESTRY*
- *SVERIGES LANTBRUKSUNIVERSITET*
- *GOZDARSKI INSTITUT SLOVENIJE*
- *NARODNE LESNICKE CENTRUM*
- *UKRAINIAN NATIONAL FORESTRY UNIVERSITY*
- *FORESTRY COMMISSION RESEARCH AGENCY*

THIRD PARTIES

- *OFFICE NATIONAL DES FORETS*

The Horizon 2020 project DIABOLO (Distributed, integrated and harmonised forest information for bioeconomy outlooks) tackles Europe's social, ecological and economic challenges.

The increasing competition for forest resources will necessitate new forest-related policies across different sectors. These policies demand relevant, harmonised, comprehensive, reliable and up-to-date information. As a response to this challenge, the DIABOLO project brings together 33 partners from scientific institutions in 25 European countries, including experts in the fields of policy analysis, forest inventory and forest modelling, who have live linkages to European and national policy institutions and stakeholder networks.

DIABOLO's aims are to:

- strengthen the methods to produce more accurate, harmonised and timely information derived from forest inventories and monitoring systems, that can be fed into the EU information systems (SEIS, EFDAC);
- support the development of EU policies and international processes relying on consistent forest information; and
- make innovative use of field-collected data and EC space-based applications of Earth observation.

Five major innovations can be expected from DIABOLO:

- more effective interface between science and policy;
- faster impact by sharing methods/techniques for harmonisation between 25 National Forest Inventories (NFIs);
- wider scope of NFIs;
- improved timeliness in forest disturbance monitoring; and
- better understanding of biomass supply dynamics and trade-offs between land-uses.

READ MORE:

http://cordis.europa.eu/project/rcn/193234_en.html
http://diabolo-project.eu/

FACCE-EVOLVE

Agriculture, Food Security and Climate Change Coordination and Support Action 2

The Joint Programming Initiative on Agriculture, Food Security and Climate Change (FACCE-JPI), launched in October 2010 by the European Council, brings together 21 countries committed to "building an integrated European Research Area addressing the challenges of agriculture, food security and climate change" (FACCE-JPI Strategic Research Agenda). The JPI aims at aligning research programming among its members in the long run, so as to increase the efficiency of research funding, cover gaps, avoid duplications and provide high-level innovative research on the European scene. The FACCE-Evolve Coordination and Support Action is designed to solidify foundations that will ensure long-term durability of joint programming and actions. FACCE-Evolve will thus continue to support the successful development of the FACCE-JPI and allow it to develop a set of means destined to ensure its self-sustainability.

The FACCE-Evolve will therefore provide support to JPI members in order to:

- Investigate different options for self-sustainability and test the most suitable ones.
- Investigate and develop novel processes and tools to support uptake of the SRA and its updates as well as the bi-annual implementation plans and monitor effective harmonisation, integration and alignment of national research programming, to enable evidence-based policy making and effective cross-policy actions
- Implement and oversee the increasing number of joint actions
- Pursue ongoing coordination with Horizon 2020 objectives with a scale and scope of action that should go well beyond what either the EU or Member States can achieve on their own
- Ensure the perpetuation of an effective, enriching dialogue with European and international stakeholders
- Strengthen the international dimension and visibility of the JPI through a strong communication and dissemination strategy and links with other initiatives.

READ MORE:

http://cordis.europa.eu/project/rcn/194789_en.html
https://www.faccejpi.com/

AT A GLANCE

Acronym: FACCE-Evolve

Call: H2020-ISIB-2014-1

Topic: ISIB-11-2014

Start date: 01/03/2015

End date: 01/03/2020

Duration: 60 months

Total Cost: € 3.354.625,00

EC Contribution: € 2.000.000,00

Consortium: 10 partners

Project Coordinator: Institut National de la Recherche Agronomique, France

PARTICIPANTS LIST

- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *BUNDESANSTALT FÜR LANDWIRTSCHAFT UND ERNÄHRUNG*
- *FORSCHUNGSZENTRUM JULICH GMBH*
- *INNOVATIONSFONDEN*
- *INSTITUTO NACIONAL DE INVESTIGACION Y TECNOLOGIA AGRARIA Y ALIMENTARIA*
- *LUONNONVARAKESKUS*
- *MINISTERO DELLE POLITICHE AGRICOLE ALIMENTARI E FORESTALI*
- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU BIORESURSE ALIMENTARE*
- *BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL*

FACCE-SURPLUS

SUstainable and Resilient agriculture for food and non-food systems

AT A GLANCE

Acronym: FACCE SURPLUS

Call: H2020-ISIB-2014-1

Topic: ISIB-12a-2014

Start date: 01/03/2015

End date: 01/03/2020

Duration: 60 months

Total Cost: € 15.151.515,10

EC Contribution: € 5.000.000,00

Consortium: 23 partners

Project Coordinator: Forschungszentrum Juelich GMBH

PARTICIPANTS LIST

- *FORSCHUNGSZENTRUM JUELICH GMBH*
- *AGENTSCHAP VOOR INNOVATIE DOOR WETENSCHAP EN TECHNOLOGIE*
- *FONDS NATIONAL DE LA RECHERCHE SCIENTIFIQUE*
- *FONDS VOOR WETENSCHAPPELIJK ONDERZOEK-VLAANDEREN*
- *RESEARCH PROMOTION FOUNDATION*
- *BUNDESANSTALT FÜR LANDWIRTSCHAFT UND ERNÄHRUNG*
- *BUNDESMINISTERIUM FUER BILDUNG UND FORSCHUNG*
- *BUNDESMINISTERIUM FÜR ERNÄHRUNG, LANDWIRTSCHAFT UND VERBRAUCHERSCHUTZ*
- *AARHUS UNIVERSITET*
- *INNOVATIONSFONDEN*
- *POLLUMAJANDUSMINISTEERIUM*
- *INSTITUTO NACIONAL DE INVESTIGACION Y TECNOLOGIA AGRARIA Y ALIMENTARIA*
- *MINISTRY OF AGRICULTURE AND FORESTRY*
- *AGENCE NATIONALE DE LA RECHERCHE*
- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *MINISTERO DELLE POLITICHE AGRICOLE ALIMENTARI E FORESTALI*
- *MINISTERO DELL'ISTRUZIONE, DELL'UNIVERSITA' E DELLA RICERCA*
- *MINISTERIE VAN ECONOMISCHE ZAKEN*
- *NEDERLANDSE ORGANISATIE VOOR WETENSCHAPPELIJK ONDERZOEK*
- *NORGES FORSKNINGSRAD*
- *NARODOWE CENTRUM BADAN I ROZWOJU*
- *UNITATEA EXECUTIVA PENTRU FINANTAREA INVATAMANTULUI SUPERIOR, A CERCETARII, DEZVOLTARII SI INOVARII*
- *THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS*

The objective of FACCE SURPLUS is to strengthen the European Research Area in support of different integrated food and non-food biomass production and transformation systems, especially by organising, implementing and co-funding with the EU a joint call for transnational research projects on the topic of sustainable and resilient agriculture.

As this topic falls within the scope of the Strategic Research Agenda (SRA) of the Joint Programming Initiative on Agriculture, Food Security and Climate Change (FACCE–JPI), this ERA-NET Cofund will contribute substantially to the delivery of the FACCE–JPI Strategic Research Agenda.

It will thereby also contribute to the overall EU objective of building the European Research Area through enhanced cooperation, coordination and alignment of national research programmes. The action FACCE SURPLUS also aims at implementing other joint activities such as organizing workshops, scientific events, clustering of research platforms and infrastructures in the field of food and non-food biomass production and transformation systems, and also additional joint calls without EU co-funding.

Launching such joint calls on a regular basis would pave the way to the long term objective of FACCE SURPLUS to establish a self-sustaining joint programme for FACCE-JPI. This will include establishing links with ongoing FACCE-JPI actions as well as related EU and international initiatives. FACCE SURPLUS will also support innovation and value creation from biomass in a sustainable way.

The ERA-NET Cofund instrument is appropriate for FACCE-JPI, since it provides additional incentive to participating countries to engage financially on the field of sustainable and resilient agriculture, but also includes the flexibility to implement further activities to contribute to the establishment of a renewable bioeconomy in the ERA.

READ MORE:

http://cordis.europa.eu/project/rcn/194796_en.html
http://faccesurplus.org/facce-jpi/

HENNOVATION

A thematic network addressing animal welfare and practice-driven innovation in the laying hen sector

The Hennovation project will demonstrate the potential of innovation led by producers and industry practices (on farm, during transport and at the abattoir) through the establishment of on-farm and off-farm innovation networks that proactively search for and utilize new ideas to make their business more efficient and sustainable. The networks will initially tackle two particular issues of concern in the production chain: injurious pecking and the transport and use of end-of-lay hens. The networks are led by producers or transporters and hen processors interacting with veterinary surgeons, farm advisors and scientific researchers, consumers and those certifying egg production.

An overarching aim is to develop and disseminate technical innovations based on practice as well as on economic and scientific information. Due to increasingly stricter legislation with regard to animal welfare and sustainability of production, commercial animal husbandry has gone through tremendous changes in recent years.

These changes place substantial pressure on producers and industry, but also create a need for innovative practices. Producers and others in the industry often do not get to hear about relevant scientific innovation and the translation of scientific innovation into producers and industry practices is not always effective in bringing about intended change in terms of increased productivity and sustainability.

Therefore, the project will also develop the skills of the participants in the innovation networks and facilitate the interaction and communication of individuals within each network. Communication web based tools and an on-line training programme will be designed to support the knowledge sharing within and amongst the networks. The results of the Hennovation project are expected to inspire and support uptake of innovation in other livestock sectors.

READ MORE:

http://cordis.europa.eu/project/rcn/194800_en.html
http://www.hennovation.eu/

AT A GLANCE

Acronym: Hennovation
Call: H2020-ISIB-2014-1
Topic: ISIB-02-2014
Start date: 01/01/2015
End date: 01/07/2017
Duration: 30 months
Total Cost: € 2.094.055,00
EC Contribution: € 2.094.055,00
Consortium: 7 partners
Project Coordinator: University Of Bristol, UK

PARTICIPANTS LIST

- *UNIVERSITY OF BRISTOL*
- *VETERINARNI A FARMACEUTICKA UNIVERZITA BRNO*
- *UNIVERSITAT AUTONOMA DE BARCELONA*
- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *SVERIGES LANTBRUKSUNIVERSITET*
- *ADAS UK LIMITED*
- *THE UNIVERSITY OF EXETER*

INNPROBIO

Forum for Bio-Based Innovation in Public Procurement (InnProBio)

AT A GLANCE

Acronym: InnProBio

Call: H2020-ISIB-2014-1

Topic: ISIB-07-2014

Start date: 01/03/2015

End date: 01/03/2018

Duration: 36 months

Total Cost: € 1.971.805,75

EC Contribution: € 1.964.868,50

Consortium: 8 partners

Project Coordinator: Fachagentur Nachwachsende Rohstoffe e.V., Germany

In February 2014 the EU Council adopted a new European public procurement directive. The new directive provides new opportunities for public entities to purchase products and services which meet advanced ecological and social criteria. It allows making use of public procurement to support innovative products. It is against this background that the project InnProBio 'Forum for Bio-Based Innovation in Public Procurement' strives to explore these new possibilities for bio-based products and services.

InnProBio aims to boost the European market for bio-based products through Public Procurement of Innovation.

InnProBio aims to create and engage a community of public procurement practitioners interested in Public Procurement of Innovation (PPI) with Bio-Based Products and Services (BBPS).

The project will develop an elaborated and legally solid toolbox to inform about opportunities of the procurement of innovative bio-based products and services as well as to assist in drafting public tenders accordingly. It will conduct pilot capacity building and dialogue events with public procurers, decision makers, standardization bodies and business product suppliers from EU countries.

Furthermore recommendations to public decision makers and standardization bodies to support the procurement of innovative bio-based products and services will be provided. The final goal is to create cross-national buyers groups which collaboratively develop tenders aiming for bio-based products and services.

READ MORE:

http://cordis.europa.eu/project/rcn/194784_en.html

PARTICIPANTS LIST

- *FACHAGENTUR NACHWACHSENDE ROHSTOFFE E.V.*
- *ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPASEKRETARIAT GMBH)**
- *NOVA-INSTITUT FUR POLITISCHE UND OKOLOGISCHE INNOVATION GMBH*
- *B.T.G. BIOMASS TECHNOLOGY GROUP BV*
- *MINISTERIE VAN ECONOMISCHE ZAKEN*
- *STICHTING NEDERLANDS NORMALISATIE - INSTITUUT*
- *UNIWERSYTET LODZKI*
- *UNIVERSITY OF HULL*

OK-NET ARABLE

Organic Knowledge Network Arable

Organic farming in the EU has recorded substantial growth. The area of organically managed agricultural land has almost doubled over the last decade and also the market has continued to grow despite the financial crisis. Organic farming is a productive form of agriculture which also provides ecosystem services and public goods. However, concerns have been raised whether organic farming is also productive enough in the light of the scarcity of natural resources and expected changes in food habits.

The overall aim of 'OK-Net Arable' is to increase productivity and quality in organic arable cropping all over Europe by improving the exchange of innovative and traditional knowledge among farmers, farm advisers and scientists.

To achieve this, 'OK-Net Arable' has three specific objectives:

- To synthesize the considerable scientific and practical knowledge already available in the area of organic arable farming and to identify the best methodologies for knowledge exchange. Based on this easily understandable communication and education material will be developed.
- To create a European network of farmer innovation groups. This network will serve to exchange experiences in improving organic arable cropping and test the communication and education material developed by the project.
- To create a platform for knowledge exchange in organic farming, offering evidence-based communication and education material as well as facilitating farmer-to-farmer learning. This platform will be a virtual meeting place for farmers, advisers and researchers all around Europe that otherwise would not be able to meet.

READ MORE:

http://cordis.europa.eu/project/rcn/194805_en.html

AT A GLANCE

Acronym: OK-Net Arable

Call: H2020-ISIB-2014-1

Topic: ISIB-02-2014

Start date: 01/03/2015

End date: 01/03/2018

Duration: 36 months

Total Cost: € 2.185.377,50

EC Contribution: € 1.936.627,50

Consortium: 19 partners

Project Coordinator: International Federation Of Organic Agriculture Movements European Union Regional Group, Sweden

PARTICIPANTS LIST

- *INTERNATIONAL FEDERATION OF ORGANIC AGRICULTURE MOVEMENTS EUROPEAN UNION REGIONAL GROUP*
- *FORSCHUNGSINSTITUT FUR BIOLOGISCHENLANDBAU OSTERREICH, ABGEKURZT FIBLOSTERREICH*
- *BIOFORUM VLAANDEREN*
- *FONDATSIYA ZA BIOLOGICHNO ZEMEDELIEBIOSELENA*
- *FORSCHUNGSINSTITUT FUR BIOLOGISCHENLANDBAU STIFTUNG*
- *BIOLAND BERATUNG GMBH*
- *FIBL PROJEKTE GMBH*
- *AARHUS UNIVERSITET*
- *SEGES PS*
- *EESTI MAHEPOLLUMAJANDUSE SIHTASUTUS*
- *INSTITUT TECHNIQUE DE L AGRICULTURE BIOLOGIQUE*
- *OKOLOGIAI MEZOGAZDASAGI KUTATOINTEZET KOZHASZNU NONPROFIT KFT*
- *ASSOCIAZIONE ITALIANA PER L AGRICOLTURA BIOLOGICA*AIAB*
- *CENTRO INTERNAZIONALE DI ALTI STUDI AGRONOMICI MEDITERRANEI - ISTITUTO AGRONOMICO MEDITERRANEO DI BARI*
- *CONSORZIO MARCHE BIOLOGICHE - SOCIETA COOPERATIVA AGRICOLA*
- *EIROPAS LAUKSAIMNIECIBAS UN LAUKU KONSULTANTU ASOCIACIJA*
- *PROGRESSIVE FARMING TRUST LTD LBG*

THIRD PARTIES

- *INAGRO, PROVINCIAAL EXTERN VERZELFSTANDIGD AGENTSCHAP IN PRIVAATRECHTELIJKE VORM VZW*
- *VERBAND DER LANDWIRTSCHAFTSKAMMERNEV*

PLATFORM2

Platform of bioeconomy ERA-NET Actions

AT A GLANCE

Acronym: PLATFORM2

Call: H2020-ISIB-2014-1

Topic: ISIB-10-2014

Start date: 01/03/2015

End date: 01/03/2018

Duration: 36 months

Total Cost: € 499.593,75

EC Contribution: € 499.593,00

Consortium: 9 partners

Project Coordinator: Stichting Dienst Landbouwkundig Onderzoek, The Netherlands

PLATFORM brings together ERA-NETs in the area of the bio-economy. The current proposal will continue and expand the work of FP7 PLATFORM (2012-2014) with the following objectives: to further increase collaboration among actors, to foster inclusiveness, to increase capacities for efficient and effective ERA-NETs, and to inform research policy making.

PLATFORM 1 organised inspiring annual events, dedicated workshops, a master class for call managers, fruitful two-way interaction with the Commission, the EIP AGRI and with the JTI BBI, and produced a comprehensive book about the bio-economy ERA-NETs and their activities. Surveys, analysis and events also engaged ERA-NETs from neighbouring themes with bio-economy relevance, JPIs Oceans and FACCE, SCAR WGs, and self-sustained ERA-NETs.

PLATFORM 2 will build on these activities and will further strengthen mutual learning, maximise synergies and increase coordination. PLATFORM 2 will expand the network to new ERA-NET actions (Co-fund), to more JPIs and will also seek stronger interaction with SCAR. On the website, a searchable database on bio-economy ERA-NET joint calls will be constructed, including statistics and impact assessments, such as on leverage. A World Café workshop is scheduled to ponder new, sustainable and alternative models for cooperation between public research programmes and make inventories of alignment actions taken by ERA-NETs.

The series of Annual Events will be continued and enable actors to discuss emerging cooperation needs, opportunities and tools. PLATFORM 2 will foster inclusiveness in all its work, in particular by a master class directed at new Member States and sessions at the Annual Events on improving both involvement and performance.

Capacities will be increased by sharing experience and by way of master classes on planning and managing (Co-fund) calls, as well as through evaluation and monitoring of ERA-NETs. The reflections and recommendations will be summarised in policy briefs.

READ MORE:

http://cordis.europa.eu/project/rcn/194798_en.html
http://www.era-platform.eu/project/platform2/

PARTICIPANTS LIST

- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *BUNDESMINISTERIUM FUER LAND-UND FORSTWIRTSCHAFT UMWELT UND WASSERWIRTSCHAFT*
- *FACHAGENTUR NACHWACHSENDE ROHSTOFFE E.V.*
- *FORSCHUNGSZENTRUM JULICH GMBH*
- *AARHUS UNIVERSITET*
- *INNOVATIONSFONDEN*
- *MINISTERO DELLE POLITICHE AGRICOLE ALIMENTARI E FORESTALI*
- *MINISTERIE VAN ECONOMISCHE ZAKEN*
- *MINISTRSTVO ZA IZOBRAZEVANJE, ZNANOST IN SPORT*

PROBIO

Professional support to the uptake of bioeconomy RD results towards market, further research and policy for a more competitive European bioeconomy

ProBIO is a support action which helps bioeconomy research projects to reach the market more effectively and gives them guidance on how to use their knowledge into new R&D projects.

In its first phase, ProBIO is screening bioeconomy projects results and is classifying them according to their nature and their market proximity. Whilst some of them are mature enough for market uptake, others may require further development to reach a higher maturity level or may have gained knowledge of relevance to policy makers.

Dedicated professional coaching provided by ProBIO's experts will be adapted to each project's needs and technology readiness. The closest-to-market projects will be supported in start-up creation and licensing deals with industrial partners to facilitate links with financial investors. Less mature ones will receive guidance on how to exploit their results for further research projects. At the same time, ProBIO will foster networking and knowledge exchange between European bioeconomy initiatives and key sector players so to raise awareness towards policy makers.

Finally, the project will organise a number of communication events to facilitate knowledge sharing along the bioeconomy value chains.

The ProBIO team includes green innovation consultancies and a European expert group with a strong track record in promoting the uptake of results from public research. Additional thematic expertise is ensured by two technical centres and a media agency specialised in European innovation.

READ MORE:

http://cordis.europa.eu/project/rcn/196639_en.html
http://www.probio-project.eu/

AT A GLANCE

Acronym: ProBIO

Call: H2020-ISIB-2014-1

Topic: ISIB-08b-2014

Start date: 01/03/2015

End date: 01/09/2017

Duration: 30 months

Total Cost: € 1.588.158,75

EC Contribution: € 1.588.158,75

Consortium: 8 partners

Project Coordinator: Azienda Speciale Innovhub - Stazioni Sperimentali Per L'industria, Italy

PARTICIPANTS LIST

- *AZIENDA SPECIALE INNOVHUB - STAZIONI SPERIMENTALI PER L'INDUSTRIA*
- *GREENOVATE! EUROPE*
- *I.CON. INNOVATION GMBH*
- *INVESTORNET-GATE2GROWTH APS*
- *ZABALA INNOVATION CONSULTING, S.A.*
- *TECHNOFI SA*
- *ICONS SRL*
- *SP SVERIGES TEKNISKA FORSKNINGSINSTITUT AB*

PEGASUS

Public Ecosystem Goods And Services from land management - Unlocking the Synergies

AT A GLANCE

Acronym: PEGASUS

Call: H2020-ISIB-2014-2

Topic: ISIB-01-2014

Start date: 01/03/2015

End date: 01/03/2018

Duration: 36 months

Total Cost: € 3.007.800,00

EC Contribution: € 2.977.525,00

Consortium: 15 partners

Project Coordinator: Institute For European Environmental Policy, London, UK

PARTICIPANTS LIST

- *INSTITUTE FOR EUROPEAN ENVIRONMENTAL POLICY, LONDON*
- *BUNDESANSTALT FUER BERGBAUERNFRAGEN*
- *JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION*
- *USTAV ZEMEDELSKE EKONOMIKY A INFORMACI*
- *VEREIN FUR LANDLICHE STRUKTURFORSCHUNG EV*INSTITUT FUR LANDLICHE STRUKTURFORSCHUNG AN DER JOHANN WOLFGANGGOTHE-UNIVERSITAT*
- *MITTETULUNDUSUHING OKOLOOGILISTE TEHNOLOOGIATE KESKUS*
- *EUROMONTANA*
- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *CONSIGLIO PER LA RICERCA IN AGRICOLTURA E L'ANALISI DELL'ECONOMIA AGRARIA*
- *STICHTING BIRDLIFE EUROPE*
- *STICHTING DIENST LANDBOUWKUNDIG ONDERZOEK*
- *UNIVERSIDADE DE EVORA*
- *UNIVERZA V LJUBLJANI*
- *UNIVERSITY OF GLOUCESTERSHIRE LBG*

THIRD PARTIES

- *INSTITUT NATIONAL SUPERIEUR DES SCIENCES AGRONOMIQUES DE L'ALIMENTATION ET DE L'ENVIRONEMENT*

PEGASUS aims to stimulate a long-lasting improvement in the provision of public goods and ecosystem services from agricultural and forest land in the EU.

Rural land provides a range of key functions and services on which society depends. However environmental and social benefits continue to be undervalued in land management decisions.

Using the concepts of public goods (PG) and ecosystem services (ESS), PEGASUS will develop innovative, practical ways of making these concepts more accessible and operational within the context of promoting more sustainable land management practices. It will identify and develop cost-effective mechanisms and tools for policy, business and practice to increase the sustainability of primary production in pursuit of the EU2020 vision of 'smart, sustainable and inclusive growth'.

Throughout the project, the 14 EU partners involved in PEGASUS will adopt participatory action research with relevant stakeholders – land managers, rural stakeholders and policy makers at local, regional, national and EU level – to understand better and find solutions to the range of policy and practical challenges faced in different case study contexts. The causalities between socio-political and institutional drivers, different land management systems and the delivery of PG and ESS will be explored, feeding into the development of an operational framework and practical tools that can be used to identify and map what PG and ESS provision is needed and feasible within particular territories and sectors.

By improving recognition of the social and economic value of PG and ESS, PEGASUS will promote improved and innovative approaches to their provision in practice by businesses and communities. It will also propose evidence-based recommendations to advance the CAP, forestry and other relevant policies, to encourage greater delivery of environmental and social benefits from agricultural and forest activities.

READ MORE:

http://cordis.europa.eu/project/rcn/193257_en.html

PROVIDE

PROVIding smart DElivery of public goods by EU agriculture and forestry

The objective of the PROVIDE project is to develop a conceptual basis, evidence, tools and improved incentive and policy options to support the "smart" provision of public goods by EU agriculture and forestry ecosystems. PROVIDE will consider a wide range of public goods and legislation and will address the issue by way of a multi-scale framework, working both at the EU level and the case study level in thirteen EU countries.

The project will first perform a mapping and inventory of public goods and the mechanisms producing such goods, making it possible to identify 'hotspots' for mechanisms and policy development. Around these 'hotspots', the project will then value different public goods and explore value transferability across several regions and ecosystems. Thereafter, innovative policy tools and mechanisms will be comparatively evaluated in order to achieve smart production of public goods, consistent with current productivity needs, bioeconomy strategies and rural development. The outcomes of these activities will feed information into a framework and toolbox.

The practical results of the project will be: a renewed ("unpacked") conceptualisation of the notion of public goods; an operational framework to support the smart provision of public goods; a toolbox bringing together an inventory of options, operational means for valuation and evaluation, and a selection of policy/sector mechanisms; a consolidated and long-lasting community of knowledge and practice.

The PROVIDE project will mobilise 14 partners from 13 different EU countries.

READ MORE:

http://cordis.europa.eu/project/rcn/197077_en.html

AT A GLANCE

Acronym: PROVIDE

Call: H2020-ISIB-2014-2

Topic: ISIB-01-2014

Start date: 01/09/2015

End date: 01/09/2018

Duration: 36 months

Total Cost: € 2.991.436,25

EC Contribution: € 2.991.436,25

Consortium: 14 partners

Project Coordinator: Alma Mater Studiorum - Universita Di Bologna, Italy

PARTICIPANTS LIST

- *ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA*
- *UNIVERSITAET FUER BODENKULTUR WIEN*
- *INSTITUTE OF AGRICULTURAL ECONOMICS*
- *TECHNOLOGICKE CENTRUM AKADEMIE VED CESKE REPUBLIKY*
- *LEIBNIZ-ZENTRUM FUER AGRARLANDSCHAFTSFORSCHUNG (ZALF) E.V.*
- *TALLINN UNIVERSITY*
- *UNIVERSIDAD DE CORDOBA*
- *LUONNONVARAKESKUS*
- *INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE*
- *ISTITUTO DELTA ECOLOGIA APPLICATA SRL*
- *STICHTING VU-VUMC*
- *UNIWERSYTET WARSZAWSKI*
- *UNIVERSITATEA ALEXANDRU IOAN CUZA DIN IASI*
- *THE JAMES HUTTON INSTITUTE*

WINETWORK

Network for the exchange and transfer of innovative knowledge between European wine-growing regions to increase productivity and sustainability of the sector

AT A GLANCE

Acronym: WINETWORK

Call: H2020-ISIB-2014-1

Topic: ISIB-02-2014

Start date: 01/04/2015

End date: 01/10/2017

Duration: 30 months

Total Cost: € 1.999.471,75

EC Contribution: € 1.999.221,75

Consortium: 12 partners

Project Coordinator: Institut Francais de la Vigne et du Vin, France

PARTICIPANTS LIST

- *INSTITUT FRANCAIS DE LA VIGNE ET DU VIN*
- *MINISTERIUM FUER UMWELT, LANDWIRTSCHAFT, ERNAEHRUNG, WEINBAU UND FORSTEN RHEINLAND- PFALZ*
- *FUNDACION EMPRESA UNIVERSIDAD GALLEGA*
- *INSTITUTO GALEGO DA CALIDADE ALIMENTARIA*
- *EUROQUALITY SARL*
- *UNIVERSITE DE REIMS CHAMPAGNE-ARDENNE*
- *INSTITUT ZA POLJOPRIVREDU I TURIZAM USTANOVA*
- *ESZTERHAZY KAROLY FOISKOLA*
- *SOCIETA ITALIANA DE VITICOLTURA ED ENOLOGICA*
- *VINIDEA SRL*
- *A.D.V.I.D. ASSOCIACAO PARA O DESENVOLVIMENTO DA VITICULTURA DURIENSE*

THIRD PARTIES

- *ASOCIACION PLATAFORMA TECNOLOGICA DEL VINO DE ESPANA*

The WINETWORK project has the ambition to stimulate collaborative innovation in the wine sector. The project will implement a methodology that has been successful in promoting demand-driven innovations in previous regional and European projects. For three years, eleven partners of seven European countries, representing more than 90% of the EU wine production, will exchange on their knowledge on two important diseases in vineyard: the grapevine trunk diseases and Flavesence dorée.

These diseases are well-known in many vineyards and extend for several years in different European countries. As many winegrowers are testing innovative and sustainable approaches to fight these diseases, it is very beneficial to capture these ideas and to share them between European countries. The project approach is based on the interactions between a network of facilitators' agents, regional working groups and one European scientific working group.

This participatory approach will allow transferring results from science and practical knowledge to materials adapted to end-users. This network will promote the interactions between scientists and practitioners to gather and share experiences and knowledge of different actors from the main wine producing European regions. The precise role of the technical relay partners will be to contribute to the collection of data at National scale by organizing workshops and discussions with the maximum of National stakeholders and practitioners (winegrowers, nurseries, public bodies etc.) and to run pilot action in a specific Region of interest. The project will also identify the most important topics to be addressed after the end of the project, offering important replication opportunities and sustainability of the created network.

Winetwork project will directly and regularly involve around 180 people to collect, identify and synthesize best practices and research results from all Europe in order to present and share it to the whole community.

READ MORE:

http://cordis.europa.eu/project/rcn/194794_en.html
http://www.winetwork.eu/

EUROPEAN COMMISSION

Director-General for Research and Innovation
Directorate F – Bioeconomy

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

Bioeconomy website:
https://ec.europa.eu/research/bioeconomy