Update of relevant regional, national and European initiatives and list of research projects

Work Package 4

Outreach to external activities

Publication date: April 2015

MarineBiotech

PROJECT & PUBLICATION INFORMATION

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EXECUTIVE SUMMARY

The general aim is to link the ERANET Marine Biotech with regional, national, European and international activities and to reduce fragmentation of research efforts in the area of Marine Biotechnology via better coordination and cooperation between relevant players.

As a first goal this report supports the organization of activities during the project period of the ERANET Marine Biotech, in first instance for the activities in Work package 4 to enable the outreach to other networks and initiatives (who to invite in workshops, identification of gaps in information etc.) and it will also feed the activities in Work package 2 for strategic alignment and sustainability in future collaboration on Marine Biotech.

The report has to be used in this way. Only the last update (month 48) will show the potential collaboration and concrete actions foreseen for future. In this way the list of relevant actors and relevant projects should become more precise during the years.

In a first part of this report an overview is given of relevant initiatives (most of them are supported by the European Commission), in a second part of this report a selection method is elaborated to list relevant research projects (as far as information on research projects is publicly available).

TABLE OF CONTENTS

WORK PACKAGE 4-TASK 4.1: POTENTIAL FOR JOINT ACTIVITIES WITH OTHER RESEARCH COORDINATION AND NETWORK INITIATIVES

The general aim of Work package 4 is to link the ERANET Marine Biotech with regional, national, European and international activities and to reduce fragmentation of research efforts in the area of Marine Biotechnology via better coordination and cooperation between relevant players.

This report is a dynamic document. Each year it will be updated to make a selection of potential partners for future collaborations. One can expect that within the duration of the ERANET- project the list becomes narrow. The aim is to end up with a dense overview of the most important players to collaborate with to enhance cooperation.

The first version of the report was available for the project management team in September 2014 (month 12) and is updated for the project management team in April 2015 as the EC launched the H2020 programme and selected new initiatives at the end of 2014.

In a first part of this report an overview is given of relevant initiatives (most of them are supported by the European Commission), in a second part of this report a selection method is elaborated to list relevant research projects (as far as information on research projects is publicly available).

With regards to the relevant initiatives the first versions of the report use a rather broad interpretation of potential to collaborate. All initiatives that can be related towards 'marine', 'oceans and seas' or 'biotechnology' are selected. Also initiatives without thematic restrictions can be selected as within their scope marine biotechnology can be included. In this first report the initiatives are listed with contact information, general theme and a short comment why and how they can be linked to ERANET Marine Biotech. Based on this workshops, questionnaires or other activities will be organized to get more detailed information on their respectively strategic agenda and willingness to collaborate. With regards to future cooperation to limit the fragmentation also an analysis of key-players within the initiatives will be made to find the 'decision-makers' in this process.

With regards to the list of relevant research projects in this report the limit is the availability of public information on research projects. As an exercise to decide on the future process in selecting projects and collecting necessary information for deliverables in Work package 2 a first list is limited to FP7 funded projects and the first batch of H2020 funded projects.

Next steps are planned:

- Workshop hooked on with next event ERANET Platform to build on their inventory on collaboration and cooperation possibilities for Bio-related initiatives and to come up with more information on strategic agenda, plans and concrete actions for collaboration
- Next selection on initiatives to collaborate on (to discuss in Project Management Team meeting in April 2015) to go for more detailed information for strategic alignment (WP2)

PART 1: RELEVANT EUROPEAN INITIATIVES

FP7 ERA-NETS

Introduction

The objective of the ERA-NET scheme is to step up the cooperation and coordination of research activities carried out at national or regional level in the Member States and Associated States through:

- networking of research activities conducted at national or regional level
- mutual opening of national and regional research programs

Two different action types were defined:

'ERA-NET actions' - providing a framework for actors implementing public research programs to coordinate their activities, e.g. by developing joint activities or by mutually supporting joint calls for trans-national proposals.

'ERA-NET Plus actions' - providing in a limited number of cases with high European added value additional EU financial support to facilitate joint calls for proposals between national and/or regional programs.

Under the ERA-NET scheme, national and regional authorities identify research programs they wish to coordinate or mutually open up. The participants in these actions are, therefore, program 'owners' (typically ministries or regional authorities defining research programs) or program 'managers' (such as research councils or other research funding agencies managing research programs).

The scheme will contribute to making a reality of the European Research Area by improving the coherence and coordination across Europe of such research programs. The scheme will also enable national systems to take on tasks collectively that they would not have been able to tackle independently.

Both networking and mutual opening require a progressive approach. The ERA-NET scheme therefore has a long-term perspective that must also allow for the different way that research is organized in different Member States and Associated States.

BIODIVERSA2

Type:
ERA-NET (FP7)

Participants:
France (FRB, ANR, MEDDE), Austria (FWF), Belgium (BELSPO), Bulgaria (BNSF), Estonia (ERC), Germany (PT-DLR, DFG), Hungary (VM), Lithuania (RCL), The Netherlands (NWO), Norway (RCN), Portugal (FCT), Spain (MINECO), Sweden (Formas, SEPA), Turkey (MFAL), UK (DEFRA, JNCC, NERC)

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Summary:
By networking 21 funding agencies from 15 countries, BiodivERsA2 aims to strengthen the ERA on biodiversity. Building on the experience of the ERA-NET BiodivERsA, but with a wider, more balanced network, BiodivERsA2 promotes a strategy for biodiversity research, in partnership with other players in the field, and organizes joint funding to better integrate biodiversity science.
The specific objectives of BiodivERsA are to:
develop an efficient agenda-setting mechanism for joint activities
instate a recurrent funding opportunity for transnational biodiversity research projects
play an active role in the processes and interfaces to inform policy and users
demonstrate the usefulness and prepare the establishment of a longer term funding platform for biodiversity research

Start / End date initiative:
Start: 1/11/2010
End: 31/10/2014

Collaboration opportunities:

Organization of joint calls (possible topics: Marine Biodiversity)

Remark:
Project ends 31/10/2014; no signs of a sustainable structure.

COFASP

Type:
ERA-NET (FP7)

Participants:
Denmark (DASTI, ICES, DAFA, DTU), Italy (CNR, ISPRA), Norway (FHF, RCN), Spain (Tecnalia-AZTI, IEO), Germany (BMELV, BLE), The Netherlands (DLO), Iceland (RANNIS, MATIS), France (Ifremer, ANR), Romania (UEFISCDI), UK (DEFRA, Scottish Ministers), Greece (HCMR, GSRT), Portugal (FCT), Ireland (Marine Institute), Finland (FGFRI), Belgium (EV ILVO), Turkey (GDAR)

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Summary:
COFASP: Strengthening cooperation in European research on sustainable exploitation of marine resources in the seafood chains.
COFASP is an ERA-NET created to directly address actions envisaged within fisheries, aquaculture and seafood. The main objectives of COFASP are:
To lay the basis for exploitation according to the precautionary principles and to enhance innovation in and competitiveness of the primary sectors fisheries and aquaculture as well as subsequent seafood processing and distribution to the consumer.
To define the science, information and data necessary to underpin the revision of the CFP and to ensure its successful implementation by designing complementary national research programs and outlining monitoring and information/data sharing systems needed.

Start / End date initiative:
Start: 01/02/2013
End: 31/01/2017

Collaboration opportunities:

Organization of joint calls
Potential topics: joint call on aquaculture? (Use of biotechnology in aquaculture)

ERA-IB2

Type:
ERA-NET (FP7)

Participants:
The Netherlands (NWO), Flanders (EWI, IWT), Germany (FZJ, FNR, SMWK, BMBF), UK (TSB), Portugal (FCT), France (ADEME), Turkey (Tübitak), Romania (UEFISCDI), Spain (MINECO), Norway (RCN), Denmark (DASTI), Russia (FASIE), Poland (NCBiR)

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Summary:
ERA-IB-2 wants to increase Europe's competitiveness in Industrial Biotechnology (IB) by providing a platform for long-lasting collaboration and cooperation between national/regional program owners and managers of a large number of European countries, including new Member States and Associated /ICP Countries. ERA-IB-2 organizes annual joint calls for international research proposals.

Start / End date initiative:
Start: 01/12/2011
End: 30/11/2015

Collaboration opportunities:

Organization of joint calls:
Possible topics: use of marine resources in industrial biotechnology

Remark:
Project ends 30/11/2015; planning last joint call (in collaboration with ETB) is ongoing. Initiative might become sustainable.

ERA.NET RUS PLUS

Type:
ERA-NET plus (FP7 INCO)

Participants:
Austria (FWF), Belgium (FWO), Estonia (ETAG), Finland (AKA), France (CNRS, INRA, AMBAFRAN), Germany (DLR), Latvia (LZA), Moldova (CIP), Poland (NCBR), Romania (UEFISCDI), Russia (MON, RFBR, RFH, RAS), Slovakia (SAS), Switzerland (SNSF), Turkey (TUBITAK)

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Summary:
The ERA.NET PLUS initiative aims at enhancing the coordination of research programs between the EU Member States (MS)/ Associated Countries (AC) and Russia. The project will implement Joint Calls for excellent transnational research projects in the fields of NMP, Health, Environment, SSH and Innovation. ERA.Net RUS Plus is a follow-up to the current ERA.Net RUS action that was set up from 2009 to 2013 to link Russia to the European Research Area.

Start / End date initiative:
Start: 1/11/2013
End: 31/10/2018

Collaboration opportunities:
Organization of joint calls / collaboration with Russia

ERA-PLATFORM

Type:
ERA-NET (FP7)

Participants:
The Netherlands (Wageningen UR, Ministry of Economic Affairs), Germany (FNR, PTJ), France (INRA, FRB), UK (DEFRA, BBSRC), Austria (BMBFJ), Denmark (DASTI, Aarhus Universitet), Norway (NICe), Finland (TEKES)
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Summary:
PLATFORM brings together the European Research Area Networks (ERA-NETs) from FP6 and FP7 in the area of the Knowledge Based Bio-Economy (KBBE) with the aim to improve exchange and cooperation between ERA-NETs and strengthen their contribution to, and impact on, the European Research Area in the Knowledge Based Bio-Economy. Experienced ERA-NET coordinators and managers established a network that will increase synergies and thus contribute to their effectiveness and impact. The project will not only benefit the coordinators of the ERA-NETs, but all participants, as well as other KBBE actors such as Joint Programming Initiatives (JPI) in this area, SCAR and KBBE-NET Collaborative Working Groups. The project will establish a networking platform with a mutual learning dimension and a strategic dimension.

Start / End date initiative:
Start: 1/1/2012
End: 31/12/2014

Collaboration opportunities:

Networking activities
Learning opportunities (e.g. how to organize joint calls)
Strategic positioning

Remark:
Project ends 31/12/2014; will continue under Horizon2020 (see below)

ERASynBio

Type:
ERA-NET (FP7)

Participants:
Austria (FFG), Switserland (FDEA – KTI), Germany (BMBF, FZJ), Denmark (DASTI), Spain (MINECO), Finland (AKA), France (CNRS, ANR), Greece (GSRT), Latvia (LAS), The Netherlands (NWO), Norway (RCN), Portugal (FCT), Slovenia (MESCS), UK (BBSRC)
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Summary:
Synthetic Biology is an emerging multidisciplinary research area, which borders a number of closely associated and overlapping scientific fields. Six closely associated and partially overlapping scientific fields have been identified for the scope of ERASynBio: metabolic engineering, minimal genomes, regulatory circuits, orthogonal biosystems, protocells and bionanoscience.
Due to its truly interdisciplinary character it is expected that Synthetic Biology will have applications across several industrial sectors including biomedicine, industrial biotechnology, agriculture, bioremediation, bioenergy and biosensors.

Start / End date initiative:
Start: 1/01/2012
End: 31/12/2014

Collaboration opportunities:

Organization of joint calls
Potential topics: where synthetic biology meets marine biotechnology (use of marine resources in synthetic biology?)

Remark:
Project ends 31/12/2014; no signs of a sustainable structure.

ERASysAPP

Type:
ERA-NET (FP7)

Participants:
Switserland (SNSF – SystemsX.ch), Cyprus (RPF), Germany (BMBF, FZJ), Estonia (ETAG), Spain (ISCIII), France (INRA), Island (RANNIS), Luxembourg (FNR), Latvia (LAS), The Netherlands (ZonMw), Norway (RCN), Romania (UEFISCDI, ANCS), Sweden (VR, VGR)

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Summary:
This ERA-Net predominantly aims at funding transnational Applied Systems Biology research, encouraging institutions and scientists from different countries, EU Member States as well as others, to network and share existing resources.

Traditional research in the molecular life sciences has studied the properties of individual molecules, such as proteins, in an attempt to understand biological phenomena. Systems biology extends such studies by employing a systemic view on the exploration of biological questions and the investigation of living organisms. Specifically, systems biology studies how biological properties are determined by the interaction of such molecules. For this, systems biology creates mathematical models from iterative cycles of experiments, data evaluation and uses computer simulations to understand biological networks. Following a decade of basic research, systems biology has now accomplished a potential to shape future answers to urging economic, environmental and societal problems of the 21st century. It provides sustainable tools and means for a novel type of medical care, industrial compound production and 3rd generation biofuels, in addition to providing exciting insights into fundamental biological mechanisms.

Start / End date initiative:
Start: 1/01/2013
End: 31/12/2015

Collaboration opportunities:

Organization of joint calls
Potential topics: use of systems biology in a marine setting?

EuroTransBio (ETB)

Type:
Sustainable ERA-NET

Participants:
Austria (FFG), Flanders (IWT), Wallonia (SPW-DG06), Finland (TEKES), Alsace (Region Alsace), Germany (BMBF / FZJ), Italy (MSE), Russia (FASIE), Andalucia (IDEA0), Basque Country (Ministry for Economic Development and Competitiveness of the Basque Government)

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Summary:
EuroTransBio (ETB) is an international funding initiative supported by European program owners. It has established itself as the preferred funding instrument for small and medium sized enterprises (SMEs), collaborating in the area of modern biotechnology.
Since 2006, ETB has been launching annual calls for innovative research proposals. ETB operated under the ERA-NET scheme from 2004 till 2013. From 2014 onwards, ETB will function as a sustainable initiative. The mission of ETB is to foster the competitiveness of the European biotechnology industry by supporting research intensive SMEs and their strategic partner with the aim of achieving a thriving European biotechnology industry.

Start / End date initiative:
N.A.

Collaboration opportunities:

Organization of joint calls: ETB focusses on SMEs. A collaboration could be of interest in order to increase SME participation in ERA-MBT calls.

IraSME

Type:
Sustainable ERA-NET

Participants:
Austria (FFG), Flanders (IWT), Wallonia (SPW-DG06), Czech Republic (MPO), Germany (AiF Projekt GmbH, BMBF), France (Région Nord-Pas de Calais), Russia (FASIE)

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Summary:
IraSME is a network of ministries and funding agencies which are owners or managers of national and regional funding programs for cooperative research projects between Small and Medium sized Enterprises (SMEs) and Research and Technology organizations (RTOs). Against the background of growing competition in global markets, IraSME supports SMEs in their transnational innovation activities, helps them to acquire technological know-how, extend their networks and bridge the gap between research and innovation.
Twice a year IraSME issues calls for proposals for transnational cooperative research projects between SMEs and RTOs with the objective to develop innovative products, processes or technical services. The calls follow a bottom-up approach, i.e. research topics are not pre-defined and can be decided by applicants themselves. Funding is made available through national and regional programmes according to the ERA-NET principle. IraSME enables consortia of SMEs and RTOs (not mandatory) from at least 2 participating countries to work together in transnational projects.

Start / End date initiative:
N.A.

Collaboration opportunities:

Organization of joint calls:
IraSME focusses on SMEs. A collaboration could be of interest in order to increase SME participation in ERA-MBT calls.

HORIZON2020 ERA-NET COFUND ACTIONS

Introduction

ERA-NET Cofund under Horizon 2020 is designed to support Public-Public Partnerships, including Joint Programming Initiatives between Member States, in their preparation, establishment of networking structures, design, implementation and coordination of joint activities as well as Union topping-up of a trans-national call for proposals. It is based on the merger of the former ERA-NET and ERA-NET Plus actions and is implemented by using 'program co-fund actions'. It allows for program collaboration in any part of the entire research innovation cycle.

The main and compulsory activity of ERA-NET Cofund actions under Horizon 2020 is the implementation of a single co-funded joint call for proposals that leads to the funding of trans-national research and/or innovation projects (one co-funded call per Grant Agreement). In addition to the co-funded call the consortia may implement other joint activities including other joint calls without Union co-funding. The reimbursement rate for ERA-NET Cofund is 33% as top-up for cofunded call, as for the ERA-NET Plus actions under FP7. For additional activities the reimbursement rate is 33% calculated on a yearly unit cost. The duration of ERA-NET Cofund actions is set at 5 years. During this time the consortium has to prepare and implement the call, select and negotiate the projects, finalize the projects including final payment to their beneficiaries.

In the Work Program 2014-2015, several ERA-NET Cofund actions and CSAs (including those in support to JPIs) are planned.

Overview work program 2014

	Topic identifier & Title	Instrument; Budget	Call closure
Pillar "Industrial Leadership"			
ICT	ICT 26 - 2014: Photonics KET	ERA-NET; 6M€	23 April 2014
Nanotechnologies, Advanced Materials and Advanced Manufacturing and Processing	NMP 36 – 2014: Facilitating knowledge management, networking and coordination in NMP	CSA; 0.25–0.5M€	6 May 2014
Pillar "Societal challenges"			
Health, demographic change and wellbeing	HCO 2 – 2014: Joint Programming: Coordination Action for the Joint Programming Initiative (JPI) "More Years, Better Lives - the Challenges and Opportunities of Demographic Change"	CSA; 2M€	15 April 2014
Health, demographic change and wellbeing	HCO 7 – 2014: ERA-NET: Establishing synergies between the Joint Programming on Neurodegenerative Diseases Research and Horizon 2020	ERA-NET; 5M€	15 April 2014
Health, demographic change and wellbeing	HCO 8 – 2014: ERA-NET: Aligning national/regional translational cancer research programs and activities	ERA-NET; 5M€	15 April 2014
Health, demographic change and wellbeing	HCO 9 – 2014: ERA-NET: Systems medicine to address clinical needs	ERA-NET; 5M€	15 April 2014
Health, demographic change and wellbeing	HCO 10 – 2014: ERA-NET: Rare Disease research implementing IRDiRC objectives	ERA-NET; 5M€	15 April 2014

	Topic identifier & Title	Instrument; Budget	Call closure
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy	ISIB 10 - 2014: Networking of Bioeconomy relevant ERA-NETs	CSA; 0.5M€	26 June 2014
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy	ISIB 11 - 2014: Coordination action in support of the implementation by participating States of a Joint Programming Initiative on Agriculture, Food Security and Climate Change	CSA; 2M€	26 June 2014
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy	ISIB 12 - 2014: Public-Public Partnerships in the bioeconomy (multiple topics): A. Sustainable and resilient agriculture for food and non-food systems	ERA-NET; 5M€	26 June 2014
Secure, clean and efficient energy	LCE 18 – 2014: Supporting Joint Actions on demonstration and validation of innovative energy solutions	ERA-NET; 34.25M€	7 May 2014
Climate action, environment, resource efficiency and raw materials	WATER-3-2014: Stepping up EU research and innovation cooperation in the water area	ERA-NET; 10M€	8 April 2014
Climate action, environment, resource efficiency and raw materials	SC5-9-2014: Consolidating the European Research Area on biodiversity and ecosystem services	ERA-NET; 12M€	8 April 2014
Europe in a changing world – inclusive, innovative and reflective Societies	REFLECTIVE-1–2014: ERA-NET on Uses of the past	ERA-NET; 5M€	3 June 2014
Europe in a changing world – inclusive, innovative and reflective Societies	INSO 7 - 2014: Towards joint programming under Horizon 2020	CSA; 3.2M€	29 April 2014
Europe in a changing world – inclusive, innovative and reflective Societies	INSO 8 - 2014: Synchronised Call initiatives	CSA; 1M€	29 April 2014
Europe in a changing world – inclusive, innovative and reflective Societies	15: Strategic evaluation of Joint Programming (p.93)	OTH; 0.5M€	2014

Overview work program 2015

	Topic identifier& Title	Instrument; Budget	Call closure
Pillar "Industrial Leadership"			
ICT	ICT 27 - 2015: Photonics KET	ERA-NET; 6M€	14 April 2015
Nanotechnologies, Advanced Materials and Advanced Manufacturing and Processing	NMP 14 - 2015: ERA-NET on Materials (including Materials for Energy)	ERA-NET; 10M€	26 March 2015

	Topic identifier& Title	Instrument; Budget	Call closure
Pillar "Societal challenges"			
Health, demographic change and wellbeing	HCO 11 – 2015: ERA-NET: Collaboration and alignment of national programmes and activities in the area of brain-related diseases and disorders of the nervous system	ERA-NET; 5M€	21 April 2015
Health, demographic change and wellbeing	HCO 12 – 2015: ERA-NET: Antimicrobial Resistance	ERA-NET; 5M€	2015
Health, demographic change and wellbeing	HCO 13 – 2015: ERA-NET: Cardiovascular disease	ERA-NET; 5M€	2015
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy	ISIB 12 - 2015: Public-Public Partnerships in the bioeconomy (multiple topics): B. Rural development C. Monitoring and mitigation of agricultural and forestry greenhouse gases (GHG) D. Sustainable crop production E. Sustainable livestock production F. Biomarkers for nutrition and health	ERA-NET; 15M€	11 June 2015
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy	BG-16-2015: Coordination action in support of the implementation of the Joint Programming Initiative on 'Healthy and Productive Seas and Oceans'	CSA; 2M€	11 June 2015
Secure, clean and efficient energy	LCE 18 –2015: Supporting Joint Actions on demonstration and validation of innovative energy solutions	ERA-NET; 57.85M€	28 April 2015
Climate action, environment, resource efficiency and raw materials	WATER-3-2015: Stepping up EU research and innovation cooperation in the water area	ERA-NET; 15M€	10 March 2015
Climate action, environment, resource efficiency and raw materials	SC5-2-2015: ERA for Climate Services	ERA-NET; 25M€	10 March 2015
Climate action, environment, resource efficiency and raw materials	SC5-15-2015: Strengthening the European Research Area in the domain of Earth Observation	ERA-NET; 15M€	10 March 2015
Europe in a changing world – inclusive, innovative and reflective Societies	EURO 5 - 2015: ERA-NET on Smart Urban Futures	ERA-NET; 5M€	7 January 2015
Europe in a changing world – inclusive, innovative and reflective Societies	14: Analysis of ERA-NET Cofund (p.93)	OTH; 0.1M€	2015

Stepping up EU research and innovation cooperation in the water area - WATER-3-2014

Type:
ERA-NET COFUND Action

Participants:
N.A.

Contact / Coordinator:
Pending
Website:
N.A.

Summary:
Water-related research and innovation is fragmented at EU level and dispersed at national level in several ministries, universities, agencies, regional governments and programs. To be more effective and increase the added value of related investments, the efforts and strategic research agendas of the many funding networks and organizations existing in Europe need to be integrated to establish transnational and trans-disciplinary research and innovation actions.
Proposals should pool the necessary financial resources from the participating national (or regional) research programs with a view to implementing a joint call for proposals resulting in grants to third parties with EU co-funding to support the priorities identified in the Strategic Research Agenda of the Water Joint Programming Initiative (JPI). Proposers should also consider implementing other joint activities including additional joint calls without EU co-funding. In 2014, this call should support research and innovation developing technological solutions and services to support the implementation of EU water policy, in particular for water distribution and measurement, waste water treatment and reuse, desalination, floods and droughts etc.

Start / End date initiative:
N.A.

Collaboration opportunities:

Organization of joint calls:
Opportunities exist although call topics (e.g. water distribution and measurement, waste water treatment and reuse, desalination, floods and droughts) are quite different from call topics ERA-MBT.

Remark:
This ERA-NET is linked to JPI Water

Consolidating the European Research Area on biodiversity and ecosystem services - SC5-09-2014

Type:
ERA-NET COFUND Action

Participants:
N.A.

Contact / Coordinator:
Pending
Website:
N.A.

Summary:
Biodiversity is our life insurance providing us with various (ecosystem) services and its deterioration and loss jeopardizes the provision of these services. The challenge is to advance towards completing the European Research Area in this field and to develop further the common vision and activities currently undertaken by Member States, enhancing coordination and thereby the overall impact of research and innovation in this domain. Ultimately, a unified and open biodiversity research area that promotes free circulation of scientific knowledge and technology and strengthens competitiveness needs to be created.

Proposals should pool the necessary financial resources from the participating national (or regional) research programs with a view to implementing a joint call for proposals resulting in grants to third parties with EU co-funding in this area, based on a joint vision and a common strategic research agenda for biodiversity and ecosystem services, involving also social sciences and humanities as appropriate. The joint call should be implemented in cooperation with non-EU countries where relevant, and by developing links with appropriate research infrastructures. In line with the EU's strategy for international cooperation in research and innovation international cooperation with international partners is encouraged. Proposers should also consider implementing other joint activities, including the establishment of a pan-European network of funding agencies and other key players in Europe, building on previous experience and avoiding overlaps with other initiatives, support to mutual learning and training, exchange of good practice, researcher mobility and equal opportunities (e.g. through EURAXESS) and better careers in the field as well as additional joint calls without EU co-funding.

Start / End date initiative:
N.A.

Collaboration opportunities:

Organization of joint calls?
Networking?
Strategic alliance with regard to marine biodiversity and ecosystems?

Stepping up EU research and innovation cooperation in the water area - WATER-3-2015

Type:
ERA-NET COFUND Action

Participants:
N.A.

Contact / Coordinator:
Pending
Website:
N.A.

Summary:
Water-related research and innovation is fragmented at EU level and dispersed at national level in several ministries, universities, agencies, regional governments and programs. To be more effective and increase the added value of related investments, the efforts and strategic research agendas of the many funding networks and organizations existing in Europe need to be integrated to establish transnational and trans-disciplinary research and innovation actions.
Proposals should pool the necessary financial resources from the participating national (or regional) research programs with a view to implementing a joint call for proposals resulting in grants to third parties with EU co-funding to support the priorities identified in the Strategic Research Agenda of the Water Joint Programming Initiative (JPI). Proposers should also consider implementing other joint activities including additional joint calls without EU co-funding. In 2015 the call should support research and innovation to support the implementation of EU water policy, in particular on sustainable water use in agriculture, to increase water use efficiency and reduce soil and water pollution.

Start / End date initiative:
N.A.

Collaboration opportunities:

Organization of joint calls:
Opportunities exist although call topics (e.g. sustainable water use in agriculture, to increase water use efficiency and reduce soil and water pollution) are quite different from call topics ERA-MBT.

Remark:
This ERA-NET is linked to JPI Water

COORDINATION AND SUPPORT ACTIONS (CSA)

Introduction

This FP7 funding scheme covers not the research itself, but the coordination and networking of projects, programs and policies including:

- Coordination and networking activities, dissemination and use of knowledge
- Studies or expert groups assisting the implementation of the FP
- Support for transnational access to major research infrastructures
- Actions to stimulate the participation of SMEs, civil society and their networks
- Support for cooperation with other European research schemes (e.g. "frontier research").

This type of projects is also foreseen in Horizon2020.

CSA OCEANS

Type:
CSA (FP7)

Participants:
Belgium (VLIZ), France (IFREMER), Germany (KDM, FZJ), Italy (CNR), Norway (RCN), Romania (UEFISCDI), Spain (MINECO), The Netherlands (NOW), UK (CEFAS, NERC)

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Summary:
CSA Healthy and Productive Seas and Oceans is a FP7 support action which is designed to reduce the time for JPI Oceans to move from the preliminary to the operational phase.
The project specifically aims at:
Supporting the governance structures in its work to establish JPI Oceans
Facilitating the development of a Strategic Research and Innovation Agenda (SRIA) and an Implementation Plan (IPlan) according to JPI Oceans vision and goals
Proposing procedures and tools for cooperation which provide the basis for joint trans-national actions based on variable geometry

Start / End date initiative:
Start: 01/09/2012
End: 31/08/2015

Collaboration opportunities:

Networking
Strategic collaboration?

Remark:
Initiative is linked to JPI Oceans

INCOMERA

Type:
CSA (FP7)

Participants:
Flanders (IWT), Alsace (Region Alsace), Germany (KIT), Greece (Athena Research and Innovation Center in Information Communication & Knowledge Technologies; Region of Western Greece), Hungary (NIH), Iceland (Nyskopunarmidstod Islands), Italy (Regione Piemonte, Sviluppo Toscana, Veneto Innovazione), Portugal (FCT), Romania (UEFISCDI), slovakia (University of Bratislave, Ministerstvo Skolstva Slovenskej Republiky, Slovenska Akademia Vied), Andalusia (IDEA0), Galicia (Conselleria de Economia e Industria. Xunta de Galicia), Valencia (Instituto Valenciano de la Competitividad Empresarial), Israel (MATIMOP)

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Summary:
INCOMERA is LEADERA's follow-up project.
INCOMERA is a network of European research funders and administrations, working together to coordinate their efforts within the highly innovative and technology based themes of the EU Lead Market Initiative. The main aim of ICOMERA is to support the development of lead market initiative in Europe. The lead market initiative is the European policy for six important sectors that are supported by actions to lower barriers to bring new products or services onto the market. The LMI identified the following markets: Sustainable construction, Recycling, Renewable energies, Bio-based products, eHealth, and Protective textiles.

Start / End date initiative:
Start: 15/01/2014
End: 14/01/2018

Collaboration opportunities:

Organization of joint calls:
Potential call topic: bio-based products starting from marine biomaterials

PreSto GMO ERA-Net

Type:
CSA (FP7)

Participants:
Germany (FZJ, BMBF, JKI, Genius GmbH), Austria (BMLFUW, Universitaet Klagenfurt), Sweden (VR), Turkey (MRC), UK (FERA, NCL, University of Nottingham), France (ANSES, INRA), Italy (ENEA, UNIPR – DFS, UCSC), Switzerland (Eidgenoessisches Volkswirtschaftsdepartement), The Netherlands (LEI), Poland (NRI), Czech Republic (CRI), Spain (CRAG), Bulgaria (Agrobioinstitute)

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http://www.presto-gmo-era-net.eu

Summary:
The goal of the PreSto GMO ERA-Net project is to take key preparatory steps towards the planning and implementation of an ERA-Net action. This research coordination program will streamline transnational research on the effects of GMOs in the areas of human and animal health, environment and techno-economic impacts. The focus of the ERA-Net will be on GMOs which are intentionally released into the environment and/or used immediately in feed and food applications.

Start / End date initiative:
Start: 1/09/2013
End: 31/08/2015

Collaboration opportunities:

Networking activities
Strategic positioning (Use of GMO's in marine setting?)

Remark:
CSA seems to focus on GMOs in plants.

Networking of Bioeconomy relevant ERA-NETs - ISIB-10-2014

Type:
CSA

Participants:
N.A.

Contact / Coordinator:
Pending
Website:
N.A.

Summary:
More than 30 ERA-NETs have been set-up in the Sixth and Seventh Framework Programs on a wide range of scientific subjects and disciplines relevant to the Bioeconomy. While focusing on different scientific areas, they all work towards achieving a common goal of the transnational networking and coordination of national research programs and address a number of horizontal issues, such as the mapping of existing research potential and foresight activities, the launching of joint calls and addressing the challenges of IPR rules and bioethical concerns.
Proposals should build on the results expected by the PLATFORM network of Bioeconomy relevant ERA-NETs with the aim to further expand the network and strengthen the initiatives undertaken for mutual learning, maximizing synergies and increased coordination. The activities of PLATFORM should be continued under Horizon 2020 in close liaison with Joint Programming Initiatives (JPI) and Strategic & Collaborative Working Groups of SCAR, thus helping rationalizing on limited resources for maximum impact.

Start / End date initiative:
N.A.

Collaboration opportunities:

Networking activities
Learning opportunities (e.g. how to organize joint calls)
Strategic positioning

Remark: This initiative is the successor of PLATFORM

Coordination action in support of the implementation of the Joint Programming Initiative on 'Healthy and Productive Seas and Oceans' - BG-16-2015

Type:
CSA

Participants:
N.A.

Contact / Coordinator:
Pending
Website:
N.A.

Summary:
Proposals should build on the outcomes of the CSA Oceans project in support to the implementation of the Strategic Research and Innovation Agenda (SRIA) of JPI Oceans and in ensuring further alignment and convergence of national Research and Innovation activities and investments on marine research in line with the European Commission Recommendation of 2011. In this context, proposals should provide support for the designing and implementation of new transnational joint activities including joint calls if appropriate and using the most suitable and effective methods and tools for collaboration such as those proposed by the 'Voluntary guidelines on Framework Conditions', adopted by the High Level Group on Joint Programming. These new joint actions, in interface with other initiatives, should focus on relevant issues and grand challenges identified in the JPI Oceans' implementation plan and provide support to key marine and maritime related EU policies and strategies.

Proposals should be used to establish and consolidate an operational network of marine and maritime research funders and other key players in Europe, with a view to ensure alignment of national research agendas and actions implemented in the framework of other initiatives such as marine ERA-Nets (e.g. Seas-Era) and Article 185 initiatives (e.g. Bonus 'Joint Baltic Sea Research Program).

Cooperation between relevant EU marine research institutes should be further stimulated for better coordination in the collection of marine data, the use and sharing of marine research infrastructures of transnational interest.

Start / End date initiative:
N.A.

Collaboration opportunities:

Organization of joint calls?
Networking?
Strategic alliance?

JOINT PROGRAMMING INITIATIVES

What is the aim of JPI's?

Joint Programming – a concept introduced by the European Commission in July 2008 – is one of the five initiatives for implementing the European Research Area (ERA). The overall aim of Joint Programming is to pool national research efforts in order to make better use of Europe's precious public R&D resources and to tackle common European challenges more effectively in a few key areas (e.g. climate change, healthy ageing, etc.). JPI's will follow a structured strategic process whereby Member States agree common visions and strategic research agendas to address major societal challenges.

How do JPI's work?

Joint Programming is a new process combining a strategic framework, a bottom-up approach and high-level commitment from Member States. Suitable Joint Programming areas are identified by a High Level Group on Joint Programming (GPC), consisting of nominees from Member States and the Commission, following a thorough consultation of stakeholders. Based on the results of the GPC, the Council, upon a proposal by the Commission, recommends a limited number of areas in which to implement Joint Programming. From there on, participation of Member States in each initiative is "à la carte", based on voluntary commitments leading to partnerships composed of variable groups of countries.

For each initiative, participating countries will start with:
- Developing a shared vision for the area;
- Defining a Strategic Research Agenda (SRA) and SMART objectives (Specific, Measurable, Achievable, Relevant and Time-Bound); and
- Preparing for implementation of the SRA by analyzing the options, assessing expected impacts and defining the best mix of instruments to be used (e.g. joint calls).

Common approach

Since December 2008, the Council has been trying to encourage the Member States to find common approaches for an effective development and implementation of Joint Programming (JP) in research (e.g. peer review procedures, foresight activities, evaluation of Joint Programs, funding of cross-border research by national or regional authorities, optimum dissemination and use of research findings as well as protection, management and sharing of intellectual property rights).

Though past experiences show that establishing binding European rules will be difficult, it is necessary to find the right balance between developing a 'standard model' on one hand and giving 'flexibility within the model' on the other.

To discuss the common approach in more detail, a respective sub-group of the GCP has been established. They have published a set of non-binding recommendations, based on best practices. These guidelines are called 'Framework Conditions'. A specific project, called "JPIs TO CO-WORK", has been set up to provide JPIs with elements to better decide on the options available to implement the Framework Conditions.

Overview current JPI's

So far, ten Joint Programming Initiatives (JPIs) have been identified:
JPI Agriculture, Food Security, and Climate Change (FACCE JPI)
JPI A Healthy Diet for a Healthy Life
JPI Antimicrobial Challenge – An Emerging Threat to Human Health
JPI Climate – Connecting Climate Knowledge for Europe
JPI Cultural Heritage and Global Change: a new challenge for Europe

JPI Healthy and Productive Seas and Oceans
JPI More Years, Better Lives
JPI Urban Europe
JPI Water Challenges
JP Pilot Initiative – Neurodegenerative Disease Research (JPND)

The following JPI's could be of interest to ERA-Marinebiotech:
JPI Healthy and Productive Seas and Oceans
JPI Water Challenges
JPI Agriculture, Food Security, and Climate Change (FACCE JPI)
JPI A Healthy Diet for a Healthy Life

JPI Healthy and Productive Seas and Oceans

Type:
Joint Programming Initiative (FP7)

Participants:
Belgium, Denmark, Estonia, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Lithuania, The Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Turkey and United Kingdom.

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Summary:
The JPI will focus on cross cutting issues to:
Foster enabling cross-cutting marine technologies across the maritime sectors
Foster the marine bio economy in relation to new products, services and jobs
Create the best enabling environment to maximize the development of marine renewable energies
Develop the necessary knowledge and technologies to conquer the new deep-sea frontier
Understand and mitigate impact of climate change and pressure from human activities on the marine environment, to reach GES (Good Environmental Status) of our seas by 2020
Improve understanding of marine ecosystems and their processes, in particular delivery of ecosystem services and the impacts of human activities
Understand climate change impact on coastal areas and the design of marine and maritime structures and activities, to optimize mitigation and significantly reduce costly damages
Develop and sustain infrastructure to support an integrated data and information base enabling industrial development and supporting maritime governance
Develop a research to policy mechanism, in particular to support of the marine strategy framework directive and marine spatial planning and management
Foster the inter-disciplinary human capacities that are necessary to the JPI goals

Start / End date initiative:
NA

Collaboration opportunities:
Strategic networking, organization joint calls?

JPI Water Challenges

Type:
Joint Programming Initiative (FP7)

Participants:
Austria (EAA, Vienna University of Technology), Cyprus (RPF), Denmark (DASTI, DHI), Estonia (Ministry for Environment, Tallinn University), Finland (Academy of Finland), France (BGRM, IRSTEA) Germany (BMBF, Jülich), Ireland (EPA), Israel (Ministry of Energy and Water), Italy (ISPRA, Ministry of the Environment, MIUR), Moldova (ASM), The Netherlands (Ministry of Economic Affairs, NEA), Norway (RCN, NEA), Poland (Ministry of Science and Higher Education, ERCE), Poland (FCT), Romania (Romanian Office for Science and Technology, ANCS), Spain (MINECO), Turkey (TUBITAK, SUEN), UK (DEFRA, CEH)

Contact / Coordinator:
To update

Summary:
The JPI "Water challenges for a changing world" deals with research, development and innovation in the field of water and hydrological sciences. The availability of water in sufficient quantities and adequate quality is indeed a public issue of high priority and addresses a pan-European and global environmental challenge. Discussions among JPI Partner & Observer countries have led to the identification of five types of research questions, addressing different aspects of European society:
Maintaining ecosystem sustainability
Developing safe water systems for the citizens
Promoting competitiveness in the water industry
Implementing a water-wise bio-based economy.
Closing the water cycle gap

Start / End date initiative:
N.A.

Collaboration opportunities:

Strategic networking

Remark:
JPI deals with fresh water challenges

JPI Agriculture, Food Security, and Climate Change (FACCE JPI)

Type:
Joint Programming Initiative (FP7)

Participants:
To update

Contact / Coordinator:
To update

Summary:
To update

Start / End date initiative:
N.A.

Collaboration opportunities:

To update

Remark:
To update

JPI a Healthy Diet a Healthy Life

Type:
Joint Programming Initiative (FP7)

Participants:
To update

Contact / Coordinator:
To update

Summary:
To update

Start / End date initiative:
N.A.

Collaboration opportunities:

To update

Remark:

JOINT TECHNOLOGY INITIATIVES

Introduction

Joint Technology Initiatives are long-term Public-Private Partnerships and are managed within dedicated structures based on Article 187 TFEU (ex Article 171 TEC). JTIs support large-scale multinational research activities in areas of major interest to European industrial competitiveness and issues of high societal relevance.

Joint Technology Initiatives (JTIs) are a means to implement the Strategic Research Agendas (SRAs) of a limited number of European Technology Platforms (ETPs). In these few ETPs, the scale and scope of the objectives is such that loose co-ordination through ETPs and support through the regular instruments of the Framework Program for Research and Development are not sufficient. Instead, effective implementation requires a dedicated mechanism that enables the necessary leadership and coordination to achieve the research objectives. To meet the needs of this small number of ETPs, the concept of "Joint Technology Initiatives" has been developed.

The text of the seventh Framework Program foresees the following identification criteria for JTIs:
- Inability of existing instruments to achieve the objective,
- Scale of the impact on industrial competitiveness and growth,
- Added value of European-level intervention,
- Degree and clarity of definition of the objective and deliverables to be pursued,
- Strength of the financial and resource commitment from industry,
- Importance of the contribution to broader policy objectives including benefit to society,
- Capacity to attract additional national support and leverage current and future industry funding.

Based on the criteria above, the following six initiatives were identified in the "Cooperation" Specific Program:
- Innovative Medicines Initiative (IMI)" - Health research theme
- Aeronautics and Air Transport (Clean Sky)" - Transport research theme
- Hydrogen and Fuel Cells Initiative (FCH)" - Energy research theme
- Embedded Computing Systems (ARTEMIS)" - ICT research theme
- Nanoelectronics Technologies 2020 (ENIAC)" - ICT research theme
- Global Monitoring for Environment and Security (GMES)" - Space research theme
- Biobased Industries (BBI)

Innovative Medicines Initiative 2

Type:
Joint Technology Initiative (Horizon2020)

Participants:
IMI 2 is a partnership between the European Union and the European pharmaceutical industry, represented by the European Federation of Pharmaceutical Industries and Associations (EFPIA).

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Summary:
The goal of the Innovative Medicines Initiative 2 (IMI 2) is to develop next generation vaccines, medicines and treatments, such as new antibiotics. It will build on the successes and lessons learnt under IMI. Like IMI, it will bring together companies, universities, public laboratories, innovative small and medium-sized enterprises (SMEs), patient groups and regulators in collaborative projects that will pave the way for breakthrough vaccines, medicines and treatments to tackle Europe's growing health challenges, and secure the future international competitiveness of Europe's pharmaceutical industry.
In particular, IMI 2 aims to deliver:
a 30% better success rate in clinical trials of priority medicines identified by the WHO;
clinical proof of concept in immunological, respiratory, neurological and neurodegenerative diseases in just five years;
new and approved diagnostic markers for four of these diseases and at least two new medicines which could either be new antibiotics or new therapies for Alzheimer's disease.

Start / End date initiative:
IMI 2 will start in 2014 and will run for 10 years.

Collaboration opportunities:

Organization of joint calls:
Potential call: new antibiotics derived from marine biomaterials

Biobased industries

Type:
Joint Technology Initiative (Horizon2020)

Participants:
To update

Contact / Coordinator:
To update

Summary:
To update

Start / End date initiative:
To update

Collaboration opportunities:

JOINT RESEARCH CENTERS

Introduction

As the Commission's in-house science service, the Joint Research Centre's mission is to provide EU policies with independent, evidence-based scientific and technical support throughout the whole policy cycle. Its work has a direct impact on the lives of citizens by contributing with its research outcomes to a healthy and safe environment, secure energy supplies, sustainable mobility and consumer health and safety.

The seven JRC institutes are located on five separate sites in Belgium, Germany, Italy, the Netherlands and Spain. The Institutes are:
- The Institute for Environment and Sustainability (IES)
- The Institute for Energy and Transport (IET)
- The Institute for Health and Consumer Protection (IHCP)
- The Institute for the Protection and Security of the Citizen (IPSC)
- The Institute for Prospective Technological Studies (IPTS)
- The Institute for Transuranium Elements (ITU)
- The Institute for Reference Materials and Measurements (IRMM)

Relevant JCR research topics

Costal and marine development
The JRC provides scientific and technical support for the implementation of the Marine Strategy Framework Directive which aims to protect marine waters.
The JRC systematically assesses key environmental indicators of marine and coastal areas using a unique combination of satellite observations and numerical modelling simulations. Remotely sensed data is analyzed and used to develop a marine and coastal knowledge base, which focuses on physically and biologically sensitive areas within European waters and other seas of interest. This knowledge base supports a consistent ecosystem approach to integrated coastal management and maritime spatial planning.
https://ec.europa.eu/jrc/en/research-topic/coastal-and-marine-environment?search

Ecosystems and biodiversity
The JRC supports the implementation of several European policies and strategies that aim to promote the conservation of biodiversity and ecosystems and the efficient use of natural resources. These include the EU 2020 biodiversity strategy, the 2012 Blueprint to Safeguard Europe's Water Resources, the EU Water Framework Directive, the EU Marine Strategy Framework Directive, the Environment Strategy for the Mediterranean, the EU Thematic Strategy for Soil Protection and the Common Agricultural Policy (CAP). The JRC aims to provide the scientific basis for the integration of EU biodiversity policies. In particular, it focuses on mapping ecosystem services, assessing available natural resources, and developing robust modelling approaches that evaluate ecosystem dynamics and future scenario simulations. The JRC also promotes consensus on best practices for the sustainable management of natural resources, notably for agriculture and rural development.
https://ec.europa.eu/jrc/en/research-topic/ecosystems-and-biodiversity?search

Fisheries and Aquaculture
Reliable and up-to-date information about the state of marine resources is essential to support sound management decisions. The JRC provides scientific and technical support to the European Commission services in charge of marine and maritime policies. JRC research in this field includes – inter alia - assessing the environmental status of marine waters, assessing fish stocks, providing economic analysis of the fisheries sector, developing new technologies for sustainable fisheries.

https://ec.europa.eu/jrc/en/research-topic/fisheries-and-aquaculture?search

Genetics for traceability in the fisheries sector
The JRC investigates the use of molecular technologies in the fight against IUU fishing, focusing in particular on catch identification, fraud throughout the fish product supply chain, and traceability ("From Ocean to Fork"). Molecular technologies are a powerful tool for independent control and can assist verification procedures, especially during the so-called "physical examination" of a shipment, product, container, storage place, etc. DNA-based techniques which can accurately identify the species and geographical origin of a fish, can also be extended to the growing aquaculture industry by identifying whether a fish is wild or farmed.
https://ec.europa.eu/jrc/en/research-topic/genetics-traceability-fisheries-sector?search

Water
The JRC supports several pieces of legislation including the Water Framework Directive (WFD) and its associated daughter Directives. In the context of the WFD, the JRC is actively involved in the Blueprint to safeguard Europe's water resources (the "Blueprint") initiative. This initiative, which is part of the EU 2020 Strategy and the Resource Efficiency Roadmap, aims to ensure that good quality water is available in sufficient quantities for all legitimate uses.
The JRC provides scientific assessments to address societal and economic challenges deriving from the evolving vulnerability of the European and global water environment. In particular, it develops modelling tools to predict climate change impacts on water, assesses water governance in developing countries and carries out studies on the preservation of ecosystems.
https://ec.europa.eu/jrc/en/research-topic/water?search

Institute for Environment and Sustainability

Type:
Joint Research Centre

Participants:
N.A.

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Summary:
The mission of the JRC's Institute for Environment and Sustainability (JRC-IES) is to provide scientific and technical support to EU policies for the protection of the environment, and the more efficient and sustainable management of natural resources at global and continental scales.
IES carries out research to understand, monitor and anticipate the complex interactions between human activity and the natural environment, in order to support the development and implementation of policies that protect the global environment and ensure that strategic resources (water, land, forests, food, minerals) are managed in a more sustainable manner for the benefit of present and future generations.

Start / End date initiative:
N.A.

Collaboration opportunities:

Strategic networking
Calls on topics of interest to the IES?

ARTICLE 185

Introduction

Article 185 refers to the article in the Treaty on the Functioning of the European Union which enables the European Union to participate financially in joint research programs carried out by several Member States. In practical terms, in an Article 185 initiative, the EU will co-fund the joint implementation of (parts of) national programs.

The actions supported may cover subjects not directly linked to the ten themes of the FP7 'Cooperation' Specific Programme, in as far as they have a sufficient EU added value. They will also be used to enhance the complementarity and synergy between FP7 and activities carried out under intergovernmental structures such as EUREKA and COST.

EUREKA

EUREKA is an intergovernmental organization for market-driven industrial R&D. It is a decentralized network facilitating the coordination of national funding on innovation aiming to boost the productivity & competitiveness of European industries. The network integrates over 40 pan-European economies, but also includes Israel, South Korea, and Canada. Following a bottom-up approach with projects being in any technological area with a civilian purpose, EUREKA has been the driving force of innovation in Europe for over 25 years.

EUREKA Clusters

EUREKA Clusters are strategic initiatives proposed and led by industry, developing generic technologies of key importance for European competitiveness. Clusters facilitate R&D and innovation projects on the basis of a broad industrial participation spanning large industry and SMEs as well as research institutions and other public or private organization.

EUREKA Clusters clearly reflect synergies where European industry, research and collaboration interests, innovation capacity and national funding opportunities meet.

So far, six EUREKA Clusters have been established:

Information technology:
- CATRENE
- EURIPIDES²
- ITEA 3

Communication
- CELTIC Plus

Energy
- EUROGIA2020

Water
- AQUEAU

As AQUEAU deals with fresh water research and development projects, collaboration opportunities with ERA-MBT are rather limited.

EUREKA Umbrellas

[EUREKA Umbrellas](#) are thematic networks that focus on a particular technology or business sector. Their goal is to generate and support R&D projects in their specific field of operation.

So far, four EUREKA Umbrellas have been established:

Manufacturing
- PRO-FACTORY+

Tourism
- EUREKA TOURISM PLUS

Materials
- E! SURF

Agrifood
- Euroagri Foodchain_2

None of these EUREKA Umbrellas are targets for direct collaboration with ERA-MBT.

Eurostars

[EUREKA's Eurostars Program](#) is the first European funding and support program to be specifically dedicated to research-performing SMEs. [Eurostars](#) stimulates them to lead international collaborative research and innovation projects. The Eurostars mission is "To support R&D-performing entrepreneurs, by funding their research activities, enabling them to compete internationally and become leaders in their sector."

BONUS

Within the marine and maritime sciences, the only Article 185 initiative is BONUS, the Joint Baltic Sea research and development program.

BONUS integrates the Baltic Sea system research into a durable, cooperative, interdisciplinary and focused multinational program in support of the regions sustainable development:

BONUS builds on the ERA-NET and BONUS+ programmes and has engaged to date over 100 research institutes and universities in nine Baltic Sea countries

BONUS combines research related to the Baltic Sea system into a joint and durable interdisciplinary and focused multinational programme that supports the Baltic Sea region's sustainable development

BONUS produces knowledge to support development and implementation of regulations, policies and management practices specifically tailored for the Baltic Sea region

BONUS issues calls for competitive proposals and funding projects of high excellence and relevance based on its strategic research agenda; this is developed in close collaboration with stakeholders across the Baltic Sea region

BONUS facilitates researchers' collaboration, networking, human capacity building and joint use of research infrastructures

BONUS supports European, regional and national coastal and marine environmental policies and plans, in particular HELCOM's Baltic Sea Action Plan

EUROSTARS

Type:
Article 185

Participants:
Austria (FFG), Belgium (DWTI, IWT, Innoviris, S**PW),** Bulgaria (Bulgarian SME Promotion Agency), Croatia(HAMAG-BICRO), Cyprus (RPF), Czech Republic (Ministry of Education, Youth and Sports), Denmark (IF), Finland (Tekes), France (EUREKA France c/o Bpifrance), Germany (EUREKA/COST-Bureau, DLR), Hungary (NIO), Iceland (ICI), Ireland (EI), Israel (ISERD), Latvia (LAS, Ministry of Educations and Science), Lithuania (AISTDP), Luxembourg (Luxinnovation GIE), Malta (ME), The Netherlands (RON), Norway (RCN), Poland (NCRD), Romania (UEFISCDI, Ministry of National Education), Slovak Republic (Ministry of Education, Science, Research and Sport), Spain (CDTI), Sweden (VINNOVA), Switzerland (SERI), Turkey (Tubitak), UK (TSB), South Korea (KIAT)

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Summary:
Eurostars is a program that supports research-performing small and medium enterprises, which develop innovative products, processes and services, to gain competitive advantage. Eurostars does this by providing funding for transnational innovation projects; the products of which are then rapidly commercialized. Eurostars provides funding and support to research-performing companies, especially SMEs. In a Eurostars project, the R&D-performing SME takes a leading position in a transnational consortium.

Start / End date initiative:
N.A.

Collaboration opportunities:

Organization joint calls:
Could be of interest as Eurostars focusses on SME's. Opportunity to incorporate more SMEs in ERA-MBT consortia.
Extensive network: possibility to enlarge the number of regions/countries participating in an ERA-MBT call.

BONUS

Type:
Article 185

Participants:
Denmark (DASTI), Estonia (ESR), Finland (FiRD Coop), Germany (FZJ), Latvia (LAS), Lithuania (RCL), Poland (NCBR), Sweden (Swedish Agency for Marine and Water Management, FORMAS)

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http://www.bonusportal.org

Summary:
BONUS brings together the research communities of marine, maritime, economical and societal research to address the major challenges faced by the Baltic Sea region. A full understanding of the Baltic Sea system is needed. This requires sound knowledge that is scientifically first-rate and relevant for society.
The EU framework provides mechanism for combining national research funding and for using this in the work aiming to meet the challenges of today. Over the past years the EU regulations show a paradigm shift from substance and sector based directives to integrated approaches such as the Water Framework Directive, the Integrated Maritime Policy and the Roadmap for Marine Spatial Planning. The development of European macro-regional policy within Baltic and Danube regions in particular are viewed as pioneers.

Start / End date initiative:
Start: 2010
End: 2017

Collaboration opportunities:

Organization joint calls:
Could be interesting in order to enlarge the number of regions/countries participating in an ERA-MBT call.

ENTERPRISE EUROPE NETWORK

Introduction

Enterprise Europe Network (EEN) focusses on helping small companies make the most of the business opportunities in the European Union. EEN experts help SMEs find international business partners, source new technologies and receive EU funding or finance. They also advise on IP, going international and EU law / standards.

EEN brings together business support organizations from more than 50 countries. EEN partners are connected through powerful databases and know Europe inside out.

Experts in 17 key sectors from all across the Enterprise Europe Network have teamed up to provide customized support:
- Aeronautics and Space
- Agrofood
- Automotive, Transport and Logistics
- BioChemTech
- Creative industries
- Environment
- Healthcare
- ICT Industry and Services
- Intelligent Energy
- Maritime Industry and Services
- Materials
- Nano- and Microtechnologies
- Services and Retail
- Sustainable Construction
- Textile& Fashion
- Tourism and Cultural Heritage
- Woman Entrepreneurship

The Network's Sector Groups organize brokerage events. They also advise companies on how to find partners to apply for EU-funded joint research projects.

The Sector Groups often form the link between the Enterprise Europe Network and other European actors and projects, including European Technology Platforms, Europe INNOVA projects and Business Innovation Centers (BICs) as well as research-driven clusters and National Contact Points of the European Commission's 7th Research Framework Program (FP7).

Maritime Industry and Services Sector Group

Type:
EEN Sector Group

Participants:
Turkey (Ege University), Germany (Investitions- Und Förderbank Niedersachsen Gmbh – Nbank, Wirtschaftsförderung Und Technologietransfer Schleswig-Holstein Gmbh, BIS Bremerhavener Gesellschaft für Investitionsförderung), Cyprus (RPF), Italy (Camera Di Commercio Industria, Artigianato E Agricoltura Di Napoli, Finlombarda, Unioncamere Lazio, Unione Regionale delle Camere di Commercio di Puglia), Spain (BEAZ), Croatia (Croatian Chamber of Economy), Iceland (Innovation Center Iceland), Greece (NDC / NHRF), France (BDI), Norway (IN), The Netherelands (Stichting Syntens), UK (Chamberlink)

Contact / Coordinator:
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Innovatienetwerk Voor Ondernemers
Rotterdam
The Netherlands
Email: niklaas.van.hylckamavlieg@kvk.nl
Website:
http://een.ec.europa.eu/about/sector-groups/maritime-industry-services

Summary:
Main services for this sector are:
Finding innovative technological solutions to complement your product development
Finding clients and co-operation partners for your products and processes
Promoting your innovative technologies in our database of technology profiles
Arranging one-on-one meetings with potential partners at Maritime Industry related trade fairs and company missions to visit potential partners
Communicating your interests and concerns in regard to European Union policies to EU policy makers
Informing you about research programs of the European Union and assisting you in applying for EU grants
Finding out about laws and regulations concerning the sector in other Network countries

Start / End date initiative:
Start: 2015 (contract renewal end 2014)
End: 2020

Collaboration opportunities:

Partner searches in view of ERA-MBT joint calls.

PART 2: LIST OF RESEARCH PROJECTS

EU FUNDED PROJECTS

For FP7 the EC used a database 'CORDIS' for the publication of funded projects. Due to the launch of H2020 this database was under construction and in April 2015 the EC launched a new 'open data' system to publish all relevant data on EU funded projects, including the new ones selected for grant under H2020. The format of this database is more friendly for analysis and it is possible to download information via EXCEL.
http://horizon2020projects.com/policy-research/h2020-project-details-revealed-in-open-data-document/
This will be the main source for selection of EU funded projects, relevant for the ERANET Marine Biotech.

FP7

As the 'open data' database was not available yet, we started the selection on FP7 projects with the inventory of 'The Marine Knowledge gate'. This tool provides an overview of European and national funded Marine Sciences and Technology projects. This database is regularly updated, and provides the option to make a sub selection of the inventory based on pre-defined criteria. http://www.kg.eurocean.org/list.jsp?page=1

In the next figure a first approach for selection is demonstrated.
The aim of this work is to use this demonstration to discuss during the Project Management Meeting in April 2015, especially with the benificiaries that perform the tasks in Work package 2. It might be that selection criteria change and new lists will be made.
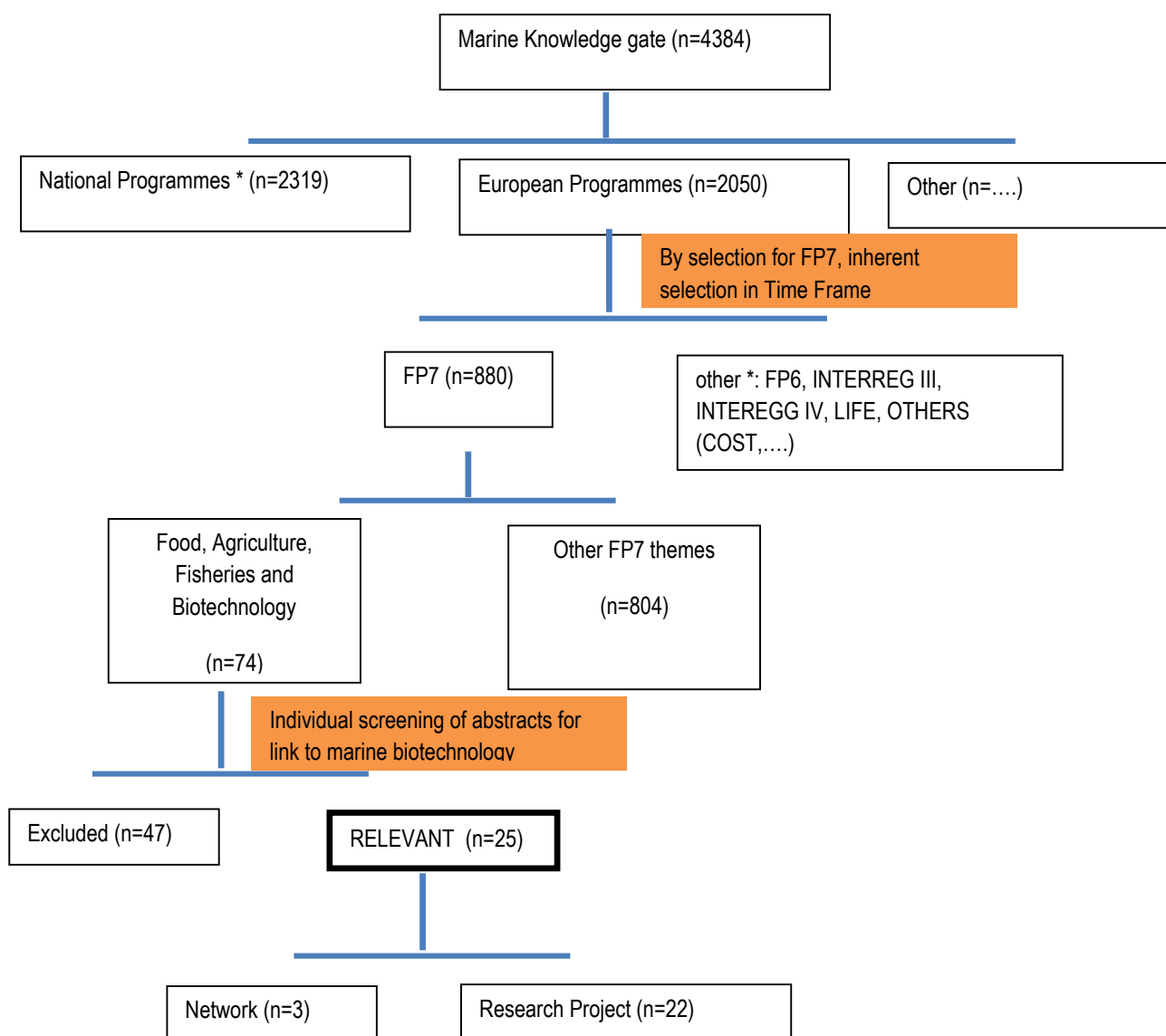The projectlist is available via an Excel-file.

Figure 1: Approach for selection of relevant project

* a fast screening of lists shows that these may also contain project related to marine biotech. However, clear selection criteria are required to look deeper into those. (option to break down selection of National Programmes illustrated in Figure 2)
** information available on type of action (see excel file)

An alternative to the above used approach for European programmes would have been to 1) either start with a pre selection of Projects related to MARINE DIRECTIVE (subsample of 21/74 projects) , followed by a manual screening.

The Marine Directive aims to achieve Good Environmental Status (GES) of the EU's marine waters by 2020 and to protect the resource base upon which marine-related economic and social activities depend. It is the first EU legislative instrument related to the protection of marine biodiversity, as it contains the explicit regulatory objective that "biodiversity is maintained by 2020", as the cornerstone for achieving GES.

Within the Marine directives the following subdivision is feasible:

01. Biological Diversity
02. Non-Indigenous Species
03. Commercial Fish
04. Food Webs
05. Eutrophication
06. Sea-Floor Integrity
07. Hydrographical Conditions
08. Contaminants and Pollution Effects
09. Contaminants in Fish and other Seafood
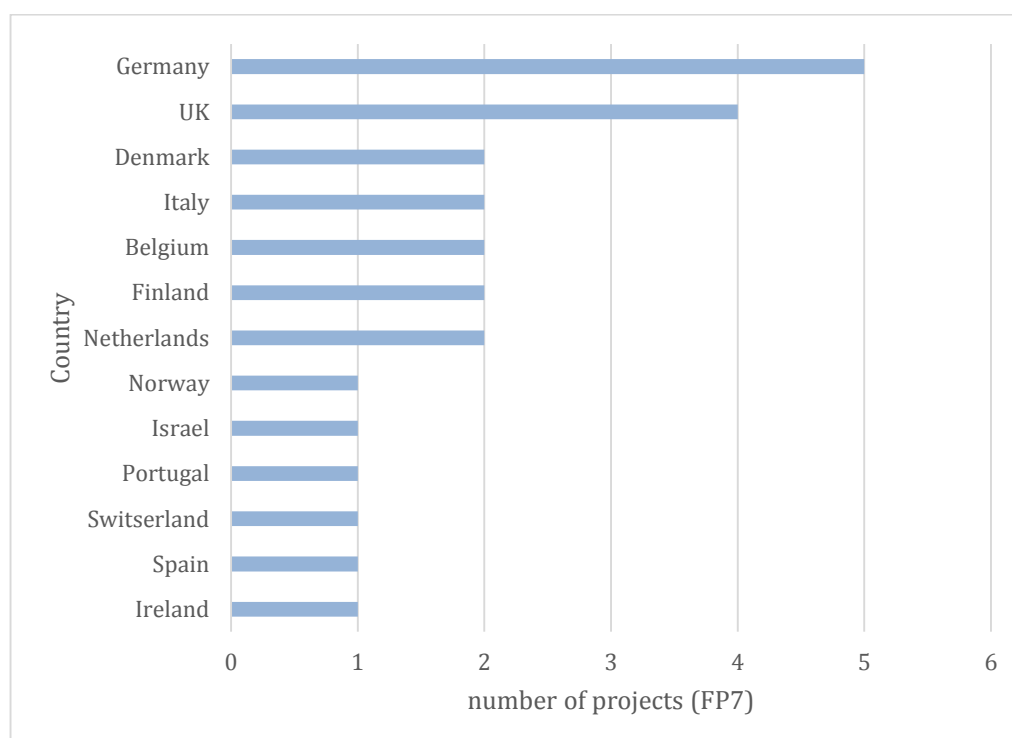10. Marine Litter
11. Underwater Noise/Energy
12. Not applicable

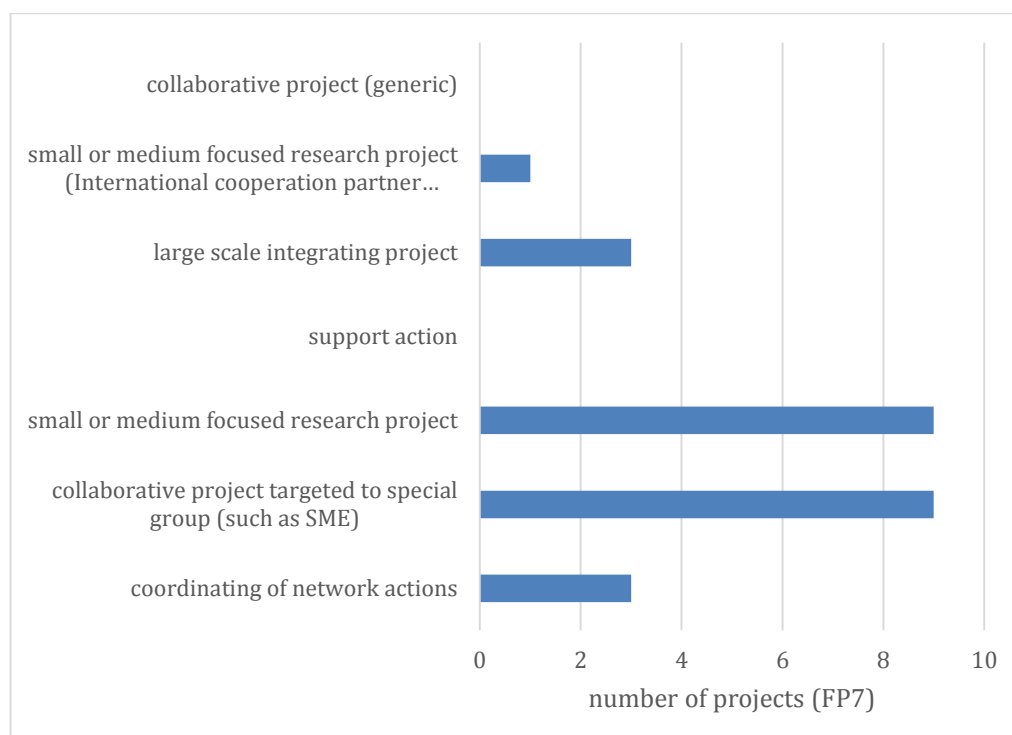Figure 2: country of coordinator of the project:

Figure 3: 'type' of activities in the projects:

Horizon 2020

Out of the 'open data' system a selection is made (based on text in 'objective') on marine projects, with exclusion of projects related to shipbuilding, coastal construction, energy, observation on ecosystems. Also for this first selection an excel file is made. If this selection is OK other data can be added.
(to discuss on the Project Management Meeting in April 2015).

National/Regional Funded projects

As the database of the Marine Knowledge Gate is also including research projects funded by National or Regional Programmes a similar exercise could be performed on national projects. At this moment it is unclear how 'complete' the information on national projects is (as for example not all IWT funded projects are public …). Most likely this database is limited to research projects funded via universities and public research organizations.
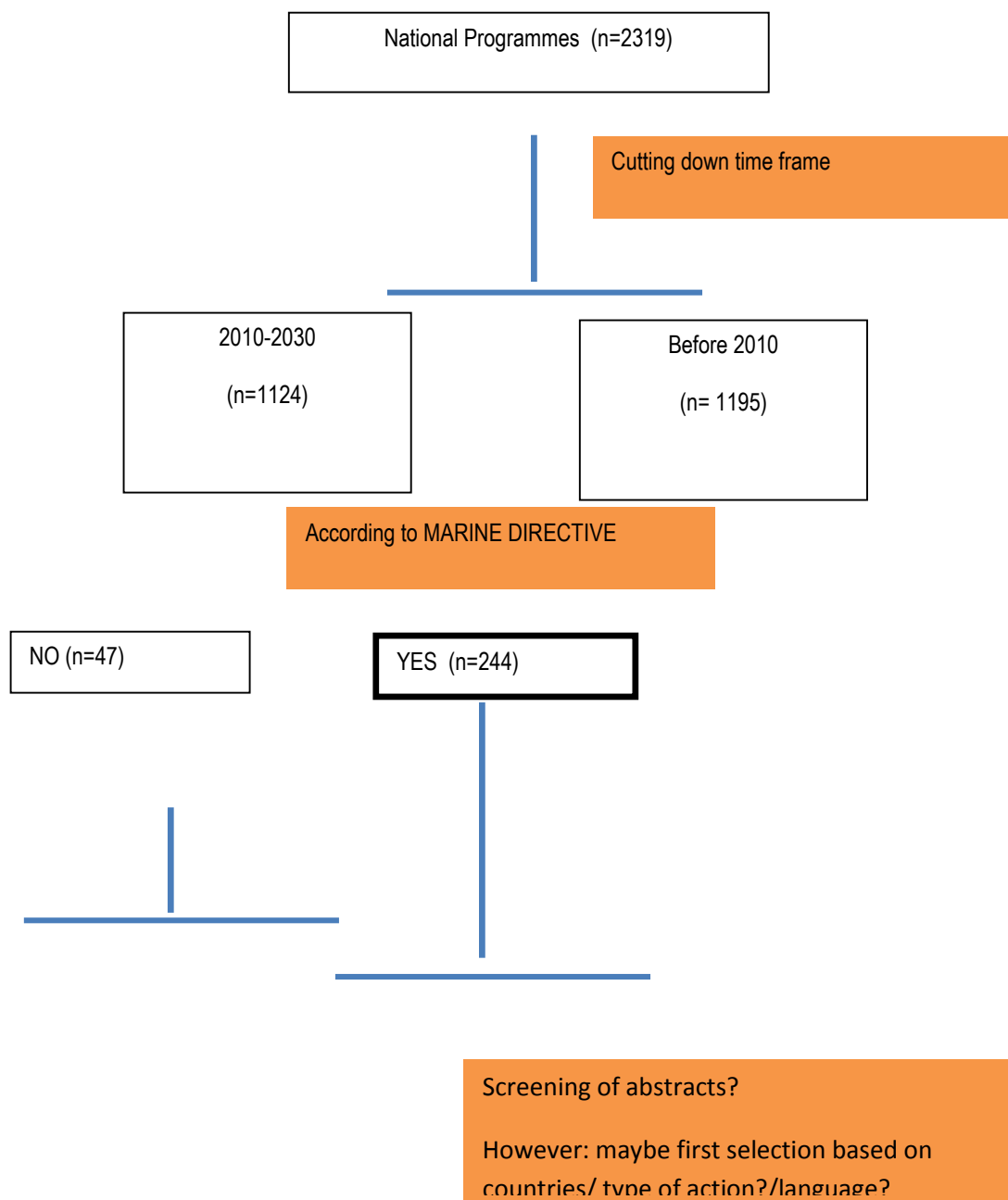(to discuss on the Project Management Meeting in April 2015).

National Programmes (n=2319)

Cutting down time frame

2010-2030

(n=1124)

Before 2010

(n= 1195)

According to MARINE DIRECTIVE

NO (n=47)

YES (n=244)

Screening of abstracts?

However: maybe first selection based on countries/ type of action?/language?

Figure 4: Example for Selection of relevant projects from National/ Regional Programmes

REMARKS

DATA SOURCES

As first sources of the information the CORDIS website, the ERA-Platform website, NETWATCH, and the websites of the individual initiatives were used.

Comment CORDIS:

Due to ongoing system changes at CORDIS, the last few months of new and updated projects, report summaries and results in brief are not currently available.

ERA-NETS

The following initiatives were not included in current overview:

FP6 ERA-NET Actions:

Reason: most initiatives ended or were replaced by new initiatives (FP7 ERA-NETS or sustainable actions)

FP7 + ERA-Net Actions

Reason: most initiatives ended. ERA-NET + actions organized only one joint call. No collaboration opportunities.

SEAS-ERA

Reason: ERA-NET ended 30-04-2014. COFASP is the successor of SEAS-ERA.

BS-ERA.NET

Reason: ERA-NET ended 31-12-2012.

KBBE-NET

Reason: initiative ended 2013

MARTEC

Reason: initiative will end 31-12-2014. Research fields MARTEC are not overlapping with those of ERA-MarineBiotech (i.e. Shipbuilding, Ship and port operation, Maritime equipment and services, Inland water and intermodal transport, Offshore industry/technology, Offshore structures for renewable energy, Fishing/aquaculture, Polar technology, Environmental impact, Safety and security, Human elements)

Support actions

The following initiatives were not included in current overview:

ERA-LEARN

Reason: Initiative ended 30-04-2014.