

Marine Science and Technology Projects funded under the 6th Framework Programme of the European Community

An independent Statistical Overview by EurOcean

European Centre for Information on Marine Science and Technology

eurOcean

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TABLE OF CONTENTS

4	FOREWORD
5	INTRODUCTION
6	LIST OF ACRONYMS AND ABBREVIATIONS
7	TECHNICAL NOTE
11	1. THE SIXTH FRAMEWORK PROGRAMME
11	1.1. Framework programmes funding for Marine Sciences
15	2. MARINE RELATED SCIENCE AND TECHNOLOGY PROJECTS IN THE SIXTH FRAMEWORK PROGRAMME
16	2.1. Distribution of funding by Activity Area
18	2.2. Distribution of projects by Activity Area
19	2.3. Distribution of funding and projects by Country
21	2.3.1. Distribution of projects by Coordinator Country
22	2.3.2. Distribution of funding by Coordinator Country
27	3. CHARACTERIZATION OF THE PRIORITY AREAS OF SUSTAINABLE DEVELOPMENT, GLOBAL CHANGE AND ECOSYSTEMS AND HUMAN RESOURCES AND MOBILITY-MARIE CURIE ACTIONS
27	3.1. Priority Thematic Area of Sustainable Development, Global Change and Ecosystems
29	3.2. Activity Area of Human Resources and Mobility – Marie Curie Actions
35	4. SUMMARY
39	5. LIST OF MARINE RELATED PROJECTS FUNDED UNDER THE SIXTH FRAMEWORK PROGRAMME

FOREWORD

The creation of a European Centre for Information on Marine Science and Technology had the objective of implementing the recommendations of the report *“Towards a new marine dimension for Europe through research and technological development”* adopted on 4th May 2000 by a group of governmental experts from 15 European countries brought together at the invitation of the Portuguese Minister for Science and Technology. This report, which was presented to the European Council for Research on 15th June 2000, recognised “the benefit of a focal point for information on marine science and technology”.

Portugal's Foundation for Science and Technology (FCT) and Ifremer (French Research Institute for the Exploitation of the Sea) decided to implement the recommendations of the above-mentioned report and signed a cooperation agreement to set up a centre for information on marine science and technology, namely EurOcean, of which the creation was officialized on 28 February 2002.

The main objectives of EurOcean are to: i) facilitate the access to information; ii) promote the development of indicators on marine science and technology, environment, and socio-economics; iii) encourage cooperation between the existing European organisations; iv) contribute to the preparation of syntheses. The implementation of these objectives is designed in collaboration with all interested relevant partners in order to avoid any duplication and to maximize benefits. Special attention is given to the end-users in order to ensure the efficiency and the usefulness of the activities developed by EurOcean.

The main activity of EurOcean is presently to develop electronic tools and information useful for all actors with interest in marine science and technology in Europe. Priority is being given to the inventory of the marine research infrastructures in Europe, to the inventory of European funded projects in marine RDT and activities of Public Outreach.

MEMBERS:

Belgium _ VLIZ – Flanders Marine Institute

France _ Ifremer – French Research Institute for the Exploitation of the Sea | Nausicaa – Centre National de la Mer | TBI - Technopôle Brest-Iroise

Ireland _ MI – Marine Institute

Malta _ MCST – Malta Council for Science and Technology

Norway _ IMR – Institute for Marine Research

Poland _ IOPAS - Institute of Oceanology of the Polish Academy of Sciences

Portugal _ FCT - Foundation for Science and Technology | FRCT - Azores Regional Fund of Science and Technology

Romania _ GEOECOMAR - National Institute of Marine Geology and Geo-ecology

Spain _ IEO – Spanish Institute of Oceanology

COOPERATING MEMBERS

IOC - Intergovernmental Oceanographic Commission of UNESCO

CPRM - Conference of Peripheral Maritime Regions

INTRODUCTION

Since March 2007 EurOcean has made available an inventory of the marine science and technology projects funded at European level. The InfoBase EurOcean_MaP¹ gathers information on 772 projects in marine related research in seven European Funding programmes – COST, EUROCORES, EUREKA, LIFE, INTERREG III, SMAP and FP6. The InfoBase covers research projects partly or entirely related to marine science and technology (strictly freshwater projects are not included).

This InfoBase, EurOcean-MaP, aims to facilitate access to information related to the European marine research projects funded in Europe and to enhance communication among the different actors working in this field. It is a contribution of EurOcean to the European Maritime Policy. The user-friendly interface and its search criteria provide the end-user with a simple and efficient mode of search.

This statistical overview reports to information compiled by EurOcean on the 479 identified marine science and technology related projects funded under the Sixth European Community Framework Programme for Research, Technological Development and Demonstration (FP6). This inventory is expected to be as complete as possible, considering that FP6 is already closed, and all known marine research related projects are expected to be gathered in EurOcean's InfoBase.

The significance of this analysis is demonstrated by the EU attention given to marine affairs, gaining on the momentum caused by the Integrated Maritime Policy² and the European Strategy for Marine and Maritime Research where was stated that “science and technology provide one of the keys for reconciling promotion of sustainable economic growth in sea-based activities with environmental conservation”³. With the beginning of the FP7 it is expected that the weight of marine science and technology in the overall funding keeps increasing.

¹ <http://www.mapinfobase.eurocean.org/>

² An Integrated Maritime policy for the European Union, COM (2007)575

³ A European Strategy for Marine and Maritime Research, COM (2008)

LIST OF ACRONYMS AND ABBREVIATIONS

- **AERO** - Aeronautics and Space
- **CA** - Coordination Action
- **COOR** - Coordination of Research Activities-ERA NET scheme
- **COST** - European Cooperation in Science and Technology
- **DG** - Directorate-General
- **EC** - European Commission
- **ECOSYSTEMS** - Global Change and Ecosystems
- **EFTA** - European Free Trade Association
- **ERA** - European Research Area
- **ESD -KA3** - Environment and Sustainable Development – Sustainable Marine Ecosystems
- **ESD -SRI** - Environment and Sustainable Development – Support for Research Infrastructures
- **EU** - European Union
- **EUREKA** - Network for Market Oriented R&D
- **EURATOM** - European Atomic Energy Community
- **EurOcean** - European Centre for Information on Marine Science and Technology
- **EurOcean_MaP** - European Marine Research funded Projects Infobase
- **EUROCORES** - European Collaborative Research Scheme From the European Science Foundation
- **FAIR** - Fisheries and Agriculture Programme
- **FOOD** - Food Quality and Safety
- **FP** - Framework Programme
- **INCO** - Specific International Co-operation Activities
- **INFRASTR** - Research Infrastructures
- **INNOVATION** - Research and Innovation
- **INTERREG III** - Community initiative which aims to stimulate interregional cooperation in the EU between 2000 and 2006
- **IP** - Integrated Project
- **IST** - Information Society Technologies
- **JRC** - Joint Research Centre Activities
- **LIFE (Thematic Area)** - Life Sciences, Genomics and Biotechnology for Health
- **LIFE (funding programme)** - Financial Instrument for the Environment
- **MAST** - Marine Science and Technology Programme
- **MOBILITY** - Marie Curie Actions-Human Resources & Mobility
- **NEST** - New and Emerging Science and Technology
- **NMP** - Nanotechnologies and Nanosciences, Knowledge based Multifunctional Materials and New Production Processes and Devices
- **NoE** - Network of Excellence
- **POLICIES** - Research for Policy Support
- **QoL-KA5** - Quality of Life and Management of living Resources – Sustainable Agriculture, Fisheries and Forestry and Integrated development of rural areas including mountain areas.
- **S&T** - Science and Technology
- **SMAP** - Environment and Sustainable Development in the Mediterranean Region
- **SME** - Specific Research Activities for Small and Medium-sized Enterprises
- **SOCIETY** - Citizens and Governance in a Knowledge-based Society
- **SSA** - Specific Support Action
- **STRP** - Specific Targeted Research Project
- **SUSTENERGY** - Sustainable Energy
- **TRANSPORT** - Sustainable Surface Transport
- **UK** - United Kingdom

TECHNICAL NOTE

SCOPE

This report analyses the 479 projects identified by EurOcean as being partly or entirely devoted to marine science and technology funded under the Sixth European Community Framework Programme for Research, Technological Development and Demonstration, which were collected by EurOcean and disseminated through the information base - EurOcean_MaP.

METHODOLOGY

The source for the information on projects gathered in this report is the EurOcean_MaP info-base. Other sources are identified along the document.

The collection of information of the funded projects under FP6 followed a three steps methodology:

- 1) The comprehensive analysis of all of the 10490 funded projects available on line on CORDIS database of FP6 projects.
- 2) A further search was done through the Internet for the completion of the information that is missing on the CORDIS database.
- 3) After the identification of the projects' coordinator a request was forwarded to each coordinator for the validation and completion of the information made available on EurOcean_MaP.

For purposes of systematization of the information presented in this report the following criteria were adopted:

- A country participation in a project consortium is only counted once per project, even if several organizations from the same country participate.
- In the distribution by Thematic Priorities it was decided to analyze individually, and at the same level of the priorities, the sub-priorities of the Area of Sustainable Development, Global Change and Ecosystems due to the facts that each sub-priority had its own budget awarded and the relevance to the marine science and technology sector.
- The Euratom budget was not considered for the purposes of this report.

TERMS

The terms that were used in Figures and Tables to support the characterization of the FP6 marine related projects are as follow:

Activity Area – It refers to the priority thematic and activity areas and in the case of the theme of Sustainable Development, Global Change and Ecosystems its sub-priorities.

Coordinations – Refers to the designated Coordinator for the project;

Funding – It includes the funding awarded under FP6 (not the total budget for the project or the total expenditure of the project);

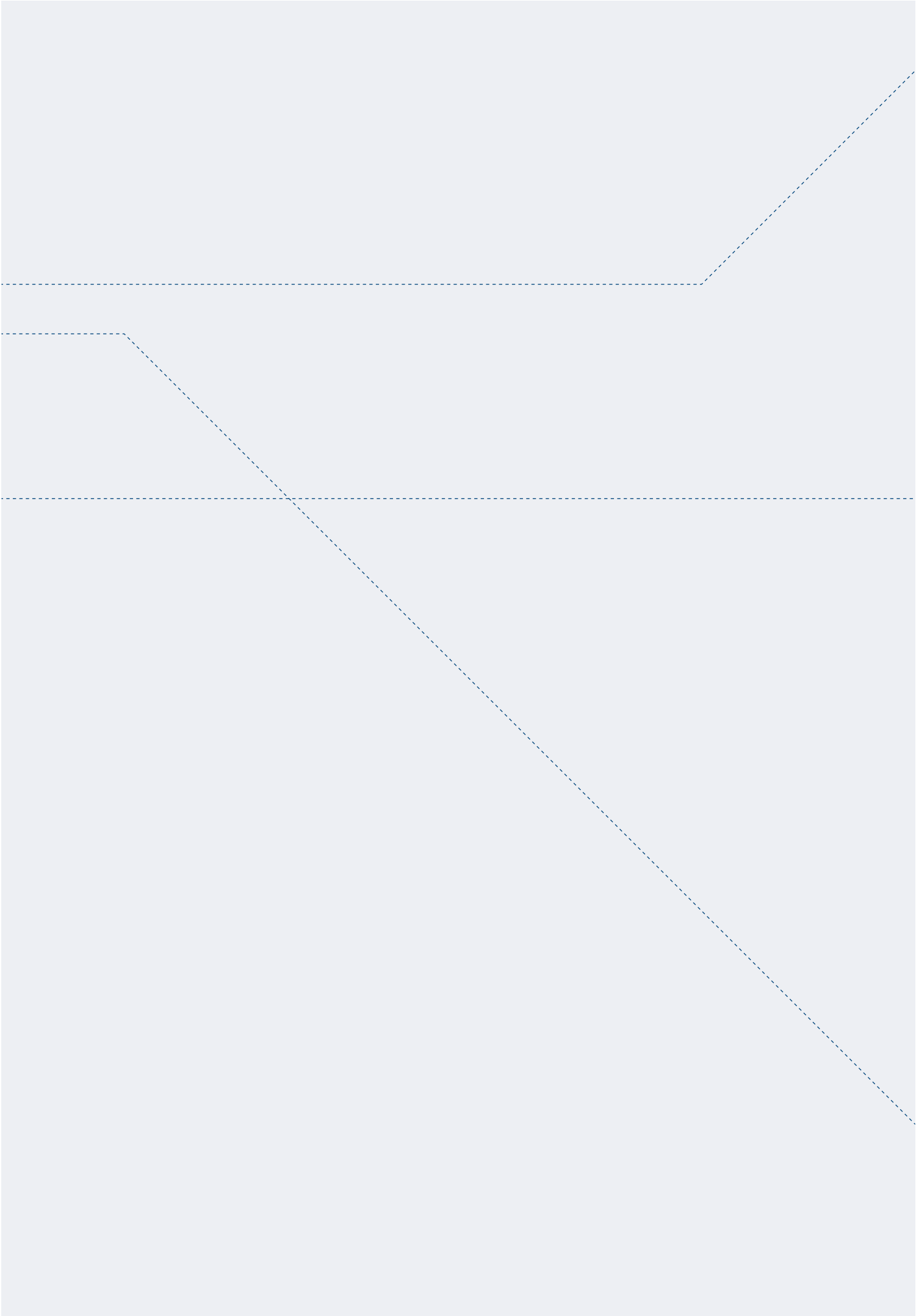
Partnerships – It refers to the participations in projects not as coordinators;

Funding Instrument – It refers to the different funding instruments defined in FP6.

DEFINITIONS

Information - refers to knowledge obtained from analytical processes of sets of data and descriptors in a manner suitable for dissemination and communication.

Infobase - is an electronic set of information that has been aggregated on a coherent and useful manner for easy access by end-users.



THE SIXTH FRAMEWORK PROGRAMME - FP6

1

1. THE SIXTH FRAMEWORK PROGRAMME

1.1. Framework programmes funding for Marine Sciences

The Framework Programme has the objective, as stated in article 130 of the Treaty on the European Union¹, of stimulating the scientific and technological bases of the Union's industry, encourage its competitiveness at international level, and also promote research activities as support for other EU policies. As for the main objective of the Sixth European Community Framework Programme for Research, Technological Development and Demonstration (FP6) of the European Union for the years 2002 to 2006, its primary goal is to enable the creation of the European Research Area (ERA), in cooperation with national efforts, through supporting collaboration in research, promoting mobility and co-ordination, investing in mobilizing research in support of other EU course of actions.

In FP6 three main blocks of activities were defined (*see Figure 1*): i) a first block with the objective of focusing and integrating European Research that encloses 7 Priority Thematic Areas of exceptional interest for Europe and Specific Activities that cover a wider field of research; ii) a second block that has the objective of Structuring the ERA and iii) a third block that has the objective of Strengthening the Foundations of the ERA.

Figure 1. Schematic overview of the FP6 structure



In the Framework Programmes there are different types of funding instruments defined, for the FP6 new funding instruments were introduced - *Integrated Projects, Networks of Excellence* and *Article 169*; in addition to traditional instruments - *Specific Targeted Research Projects, Coordination Actions, Specific Support Actions, Specific projects for SMEs, Specific Activities to promote Research Infrastructures* (These instruments apply to all of the programme priorities); and also Marie Curie Actions – Host-driven Actions, Individual Driven Actions, Excellence Recognition and Return and Reintegration mechanisms.²

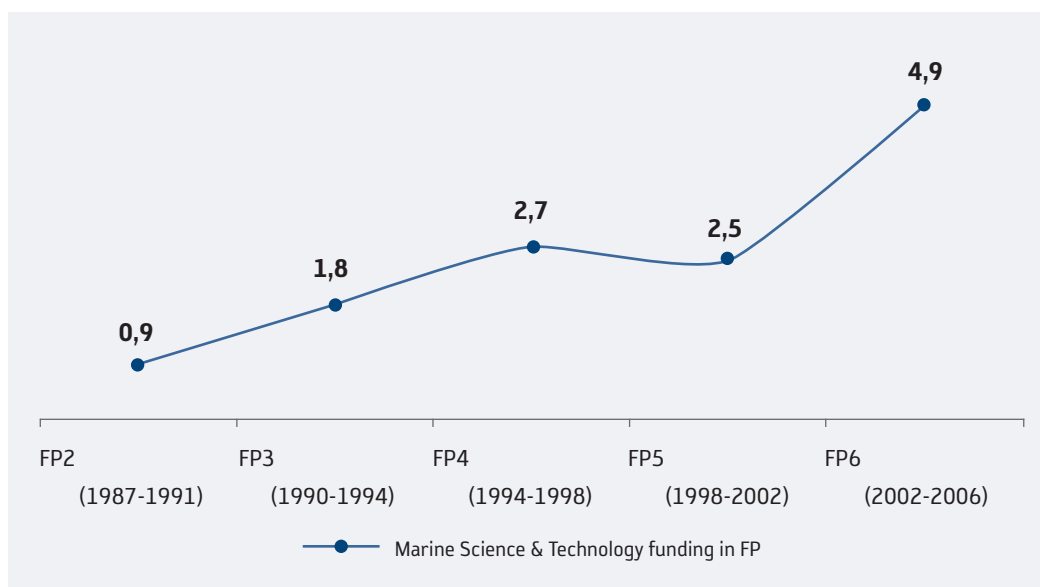
1_ Consult the treaty at http://europa.eu/abc/treaties/index_en.htm

2_ For more information on the funding instruments: <http://www.cordis.lu/fp6instrument-ip/>

1.1. Framework programme funding for Marine Sciences

The 479 projects identified by EurOcean as marine or marine related projects funded under FP6 received a total amount of 885 M€ which corresponds to 4,9% of the total FP6 budget of 17.883 M€³. This represents an increase of almost 100% in comparison with the estimates for the previous FP, Framework Programme 5 (see figure 2). In fact, if we look further back we can observe that the marine science and technology related projects have been constantly increasing its funding over the Framework Programmes, with the exception of a stagnation period between FP4 and FP5, which coincided with the end of the MAST programme, a programme inside the FP scheme that was specifically devoted to marine research.

Figure 2. Evolution of the FP6 funding to marine related research projects, in percentage



Notes:

FP2 - Estimation based on the budget for the programme MAST I

FP3 - Estimation based on the budget for the programme MAST II

FP4 - Estimation based on the budget for the programmes MAST III and FAIR

FP5 - Estimation based on the budget for the programmes ESD - KA3, ESD - SRI and QoL - KA5

Source:

EurOcean. 2009

FP6 funded 479 marine related Science and Technology projects, representing 3,3% of the total funded projects by FP6 of 10490⁴.

3_ Official Journal of the European Union, Decision N°786/2004/EC of the Parliament and of the Council of 21 April 2004

4_ Source: CORDIS Database on FP6



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MARINE RELATED SCIENCE AND TECHNOLOGY IN THE SIXTH FRAMEWORK PROGRAMME

2.

2. MARINE RELATED SCIENCE AND TECHNOLOGY PROJECTS IN THE SIXTH FRAMEWORK PROGRAMME

2.1. Distribution of funding by Activity Area

2.2. Distribution of projects by Activity Area

2.3. Distribution of funding and projects by Country

2.3.1. Distribution of projects by Coordinator Country

2.3.2. Distribution of funding by Coordinator Country

Marine Science and Technology was not one of the seven Priority Thematic Areas defined in the FP6 scheme, hence Marine Science and Technology projects are distributed through the different Priority Thematic Areas and Activities defined in the Programme.

When looking to the distribution of allocated funding for marine research projects by the Priority Thematic and Activity Areas of FP6 we can perceive marine research as a transversal area, with projects being funded in 18 of the overall 20 Thematic and Activity Areas of the FP6 scheme (see Table 1).

Table 1. FP6 funding for Marine Science and Technology and overall Budget by Thematic and Activity Area

Priority Themes	FP6 Budget ¹	Marine Science and Technology related Funding ²	
	Million Euros		%
Focusing and integrating European Research			
Thematic Areas			
Aeronautics and Space	1.182,0	30,6	2,6
Citizens and Governance in a Knowledge-based Society	247,0	-	-
Food Quality and Safety	753,0	65,8	8,7
Information Society Technologies	3.984,0	10,7	0
Life Sciences, Genomics and Biotechnology for Health	2.514,0	1,8	0
Nanotechnologies and Nanosciences, Knowledge based Multifunctional Materials and New Production Processes and Devices	1.429,0	15,7	1,1
Sustainable Development, Global Change and Ecosystems			
Global Change and Ecosystems	769,0	264,3	34,4
Sustainable Energy Systems	890,0	28,2	3,2
Sustainable Surface Transport	670,0	208,4	31,1
Specific Activities covering a wider field of Research			
Policy Support and anticipating Scientific and Technological Needs ³	590,0	67,8	11,5
Specific International Co-operation Activities	346,0	28,9	8,3
Specific Research Activities for Small and Medium-sized Enterprises	473,0	50,7	9,9
Non Nuclear Activities of the Joint Research Centre	835,0	:	:
Structuring the European Research Area			
Research and Innovation	319,0	2,3	0,7
Human Resources and Mobility - Marie Curie Actions	1.732,0	45,9	2,6
Research Infrastructures	715,0	34,6	4,8
Science and Society	88,0	0,7	0,8
Strengthening the Foundations of the European Research Area			
Development of Research/Innovation Policies	55,0	-	-
Co-ordination of Research Activities - ERA NET Scheme	292,0	28,6	9,8
TOTAL ⁴	17.883,0	885,0	4,9

Notes:

1 - Source: Official Journal of the European Union, Decision N°786/2004/EC of the Parliament and of the Council of 21 April 2004

2 - Source: Marine Research Funded Projects Infobase - EurOcean_MaP, EurOcean. 2009

3 - Research for Policy Support + NEST activities

4 - The FP6 budget allocated to Euratom is not included

Statistical Symbols:

0 - Less than half of the unit used

- - not available

- Not applicable or real zero or zero by default

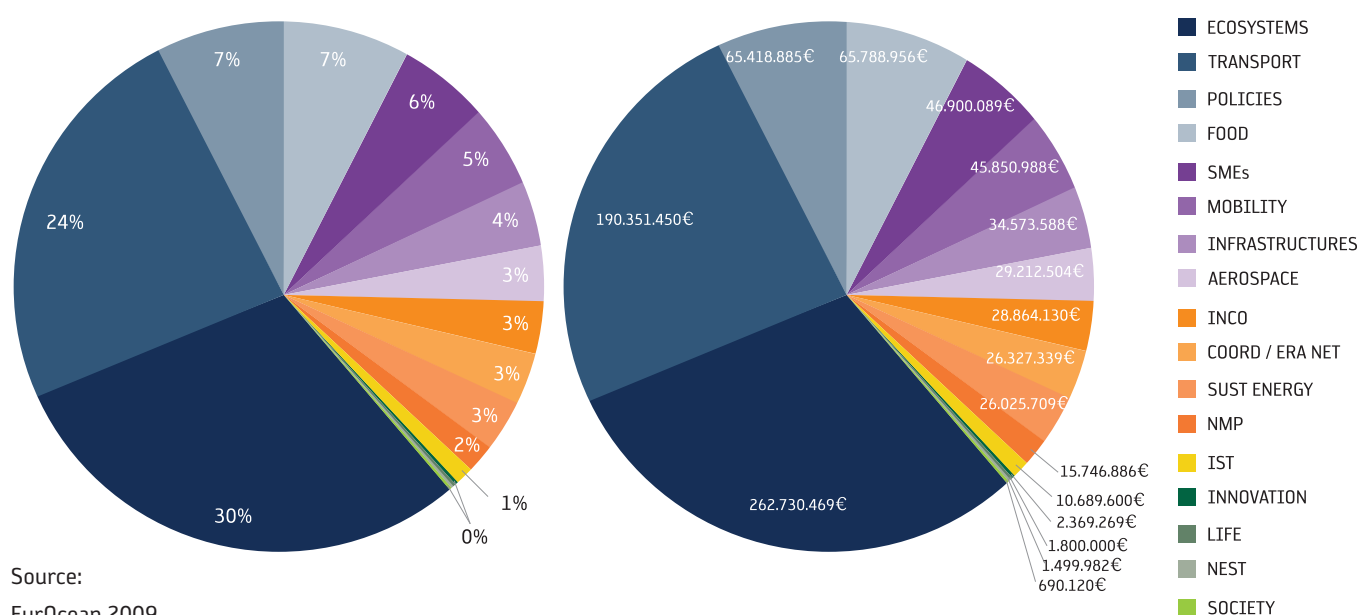
The activities of *Development of Research/Innovation Policies* in the Theme Strengthening the Foundations of the ERA and the Priority Thematic Area of *Citizens and Governance in a Knowledge based Society* are the only areas where there are no marine or marine related funded projects. The *Joint Research Centre Activities* have seven identified marine related projects; however the information regarding the amount of funding allocated to these projects is not available.

The Priority Thematic Area of *Sustainable Development, Global Change and Ecosystems* is, by far the area of the FP6 scheme where more funds were attributed to marine research. This Thematic Area was divided in three sub-priorities. It is the sub-priority area of *Global Change and Ecosystems* with an awarded total budget of 769 M€ that presents the highest amount of funding to marine related research with 264,3 M€ (34,4% of the total budget of this sub-priority). This sub-priority is followed by, other sub-priority area, *Sustainable Surface Transport* with 208,4 M€ of allocated funding for marine related research, representing 31,1% of the overall budget of 670 M€ approved for this sub-priority. In third appear the Activities related to *Research for Policy Support* that in conjunction with *NEST* activities received 67,8 M€ in marine related funding, which represents 11,5% of the total budget defined for this Activity Area.

2.1. Distribution of Funding by Activity Areas

On a closer look on the distribution of funding (see figure 3) we can see that the *Sustainable Development, Global Change and Ecosystems* Priority Thematic Area, specifically, its sub-priorities of *Global Change and Ecosystems*, with 262.730.469€ (30% of the total funds allocated to marine research), and *Sustainable Surface Transport* with 190.351.450€ (24% of the funds) sum over 50% of all marine research allocated funds from FP6. In third appear the Thematic Areas of *Research for Policy Support* (65.418.885€) and *Food Quality and Safety* (65.788.956€) with 7% of the total marine related funds, each.

Figure 3. Distribution of FP6 funding for Marine Science and Technology, by Thematic and Activity Area, in Euros and percentage

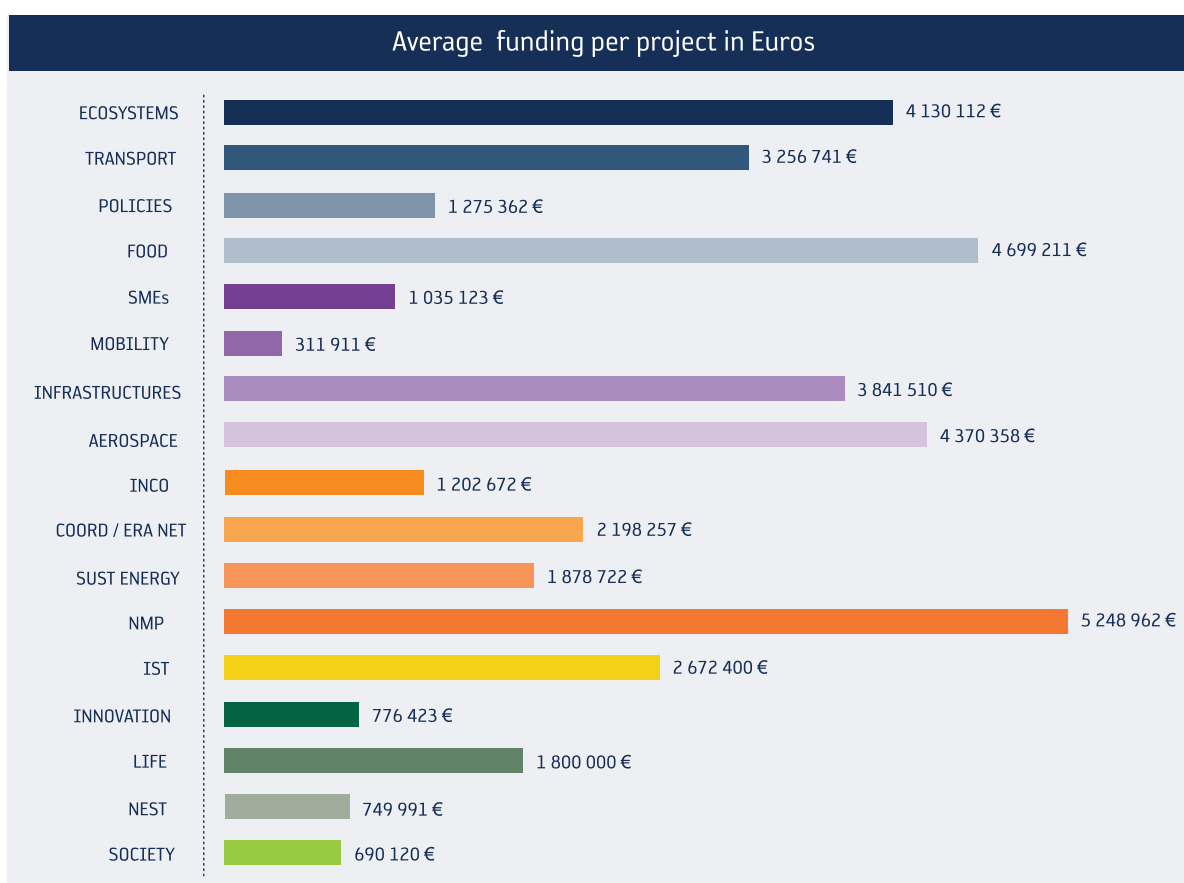


The least expressive Areas in terms of funding are the Activity Areas of *Science and Society*, *Information Society Technologies*, *Life Sciences*, *Genomics and Biotechnology for Health* and the *NEST* activities gathering less than 1%, each, of the marine research funding.

The average distribution of the funding by project (see figure 4) shows that the priority Theme of *Nanotechnologies and Nanosciences, Knowledge based multifunctional materials and New Production Processes and Devices* (NMP) is the one that attains a higher average funding per project, with an average funding of 5 248 962€ and with only 3 projects funded. *Food Quality and Safety* is the second priority Thematic Area with more average funding per project, with an average funding of 4 699 211€ per project and 14 projects funded.

Human Resources and Mobility - Marie Curie Actions is the Area with less average amount of funding per project, with an average funding per project of 311 911€. These Actions are mostly focused in the development and enrichment of individual Researchers' careers having fewer costs associated.

Figure 4. Average distribution of the FP6 funding for Marine Science & Technology projects, by Thematic and Activity Area, in Euros



Source:

EurOcean.2009

The five projects that received more funding in marine science and technology (see Table 2) were all funded under the Priority Thematic Area of *Sustainable Development, Global Change and Ecosystems* (3 in the sub-priority Area of *Global Change and Ecosystems* and 2 in the sub-priority of *Sustainable Surface Transport*). These projects, all Integrated Projects, received between 15 and 19 Million Euros from the Sixth Framework Programme.

The marine research project that received more funding was INTERSHIP¹ an Integrated Project that was funded under the sub-priority Thematic Area of *Sustainable Surface Transport* launched by the shipbuilding Industry and devoted to the increase of the competitiveness of EU shipbuilders by developing integrating tools and methods for design and manufacturing of complex one-of-a-kind vessels. This project is coordinated by Norway and the consortium gathers shipbuilders from other five European Countries.

Table 2. Top five projects in terms of funding awarded in the FP6

ACRONYM	INTERSHIP	DAMOCLES	HERCULES	ENSEMBLES	HERMES
TITLE	Integrated collaborative design and production of cruise vessels, passenger ships and RoPax	Developing Arctic Modelling and Observing Capabilities for Long-term Environmental Studies	High efficiency engine R&D on combustion with ultra low emissions for ships	ENSEMBLE based Predictions of Climate Change and their Impacts	Hotspot ecosystem research on the margins of European seas
COORDINATOR COUNTRY	Norway	France	Germany	United Kingdom	United Kingdom
OTHER PARTICIPANT COUNTRIES	France; Germany; Italy; Portugal; Spain	Belgium; Denmark; Estonia; Finland; Germany; Greece; Norway; Poland; Russia; Sweden; United Kingdom	Austria; Czech Republic; Denmark; Finland; Greece; Italy; Sweden; Switzerland; United Kingdom	Australia; Austria; Belgium; Czech Republic; Denmark; Finland; France; Germany; Greece; Italy; Netherlands; Norway; Poland; Romania; Spain; Sweden;	Belgium; France; Germany; Greece; Ireland; Italy; Morocco; Netherlands; Norway; Portugal; Romania; Spain; Sweden; Turkey
PRIORITY THEMATIC AREA	Sustainable Development, Global Change and Ecosystems - Sustainable Surface Transport	Sustainable Development, Global Change and Ecosystems - Global Change and Ecosystems	Sustainable Development, Global Change and Ecosystems - Sustainable Surface Transport	Sustainable Development, Global Change and Ecosystems - Global Change and Ecosystems	Sustainable Development, Global Change and Ecosystems - Global Change and Ecosystems
FUNDING INSTRUMENT	Integrated Project	Integrated Project	Integrated Project	Integrated Project	Integrated Project
FP6 FUNDING	19 M€	16 M€	15 M€	15 M€	15 M€

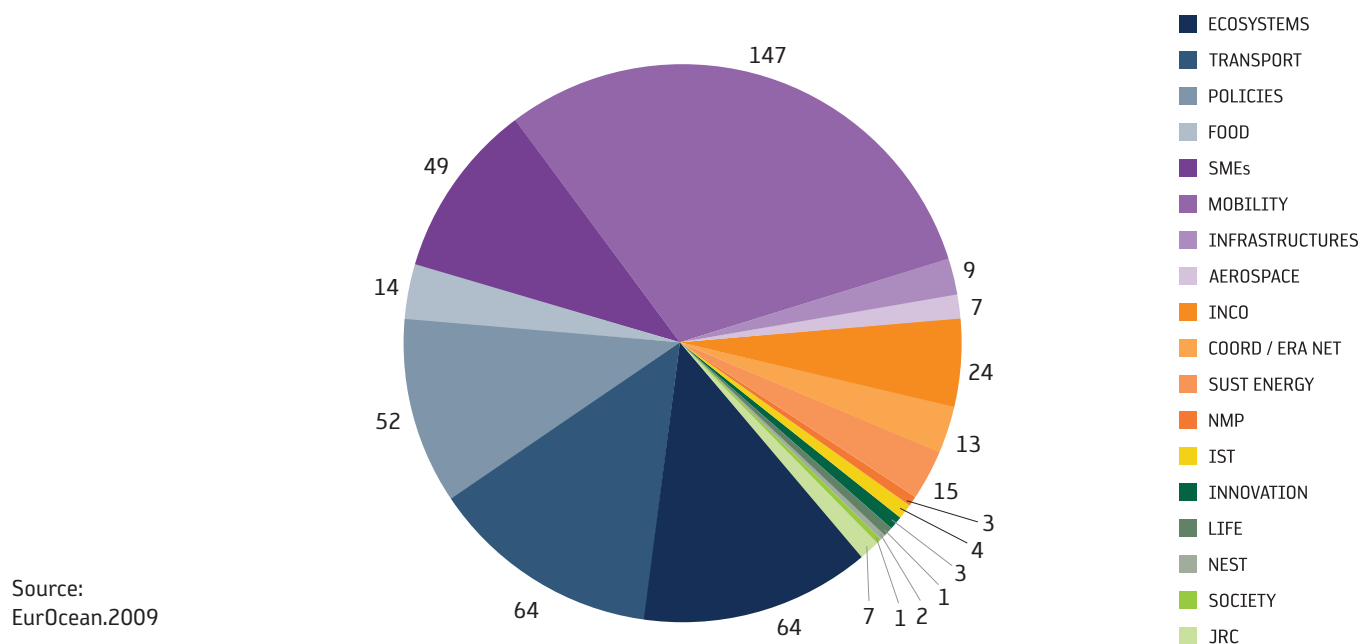
Source:
EurOcean.2009

2.2. Distribution of projects by Activity Areas

The distribution of the number of projects by different Activity and Priority Thematic Areas shows a distinct picture of the funding distribution (see *figure 5*). Looking into the number of projects that each Activity Area had funded, we see that *Human Resources and Mobility – Marie Curie Actions*, due to the individual nature of most of the Actions, has more than the double of projects (147) of the next Areas with more projects funded - sub-priorities *Sustainable Surface Transport* and *Global Change and Ecosystems* each with 64 projects funded.

1_ <http://www.intership-ip.com/>

Figure 5. Distribution of the FP6 funded projects in Marine Science & Technology, by Thematic and Activity Area, in Number



Research for Policy Support appears in fourth with 52 projects followed by the *Specific Research Activities related to SME's* (49). The Thematic Area of *Food Quality and Safety*, which is fourth in terms of funding, is only seventh in terms of the number of projects funded.

The Thematic Areas with less projects funded, in the area of marine science and technology, are the Activity Areas of *Science and Society* (1 project funded), *Life Sciences, Genomics and Biotechnology for Health* (1 project funded), and *NEST* activities with two projects funded related to marine research.

2.3. Distribution of funding and projects by Country

One of the requisites defined in FP6 for the eligibility of projects was the transnationality of the proposing consortium²; it was necessary to have partners from different Member and/or Associated Countries. The projects of only national or regionally scope, that had no cross-border cooperation, were not considered eligible for funding through FP6, in accordance with the EU founding principle of subsidiarity.

In the FP6 479 marine research related projects identified by EurOcean 94 countries were involved (*see table 3*): the 27 EU Member States, 2 EU applicant countries and 65 non-EU countries. In the overall, 19 EU members coordinated 420 projects, whereas the remaining 59 projects were coordinated by 10 non-EU countries and by the JRC (7 projects).

Of the non-EU countries that participated in the FP6 marine projects it is of notice the participation of 22 African countries. The remaining countries were: 12 from the American continent; 14 are from Asia; 3 from Oceania; 3 from the Middle East Region; and 11 are from Europe, but non-European Union members.

² The 6th Framework Programme in Brief, EC (2002)

Table 3. Countries with participations in FP6 marine related projects

AFRICA	
Algeria; Burkina Faso; Cape Verde; Egypt; Ethiopia; Ghana; Guinea; Guinea-Bissau; Kenya; Mauritania; Morocco; Mozambique; Namibia; Nicaragua; Niger; Senegal; Trinidad and Tobago; Tunisia; Uganda; South Africa; Syria; Tanzania	
AMERICA	
Argentina; Brazil; Canada; Chile; Colombia; Dominican Republic; Ecuador; Jamaica; Mexico; Peru; United States of America; Uruguay	
ASIA	
China; Brunei Darussalam; India; Indonesia; Japan; Malaysia; Singapore; South Korea; Taiwan; Thailand; Vietnam; Kazakhstan; Russia; Philippines	
EUROPE	
EU	Austria; Belgium; Bulgaria; Cyprus; Czech Republic; Denmark; Estonia; Faroe Islands; Finland; France; Germany; Greece; Hungary; Ireland; Italy; Netherlands; Luxembourg; Malta; Latvia; Poland; Portugal; Romania; Slovakia; Slovenia; Spain; Sweden; United Kingdom
Non - EU	Albania; Belarus; Croatia; Georgia; Iceland; Lithuania; Norway; Serbia & Montenegro; Russia; Switzerland; Turkey; Ukraine
MIDDLE EAST	
Israel; Lebanon; Palestine	
OCEANIA	
Australia; Fiji; New Zealand	

Source:
EurOcean.2009

In terms of the total projects participations (coordinations and partnerships in projects) (*see figure 6*) United Kingdom is the isolated leader with 282 project participations (representing 59% of the total countries participations per project), followed by France with 210 projects participations (44% of the total countries participations per project) and in third place is Spain with 182 project participations, Germany is fourth with 181.

The European Union members that have less expression in terms of the number of marine projects in which they participate are Luxembourg with the participation in only one marine related project and Slovakia with 5 participations in marine related projects.

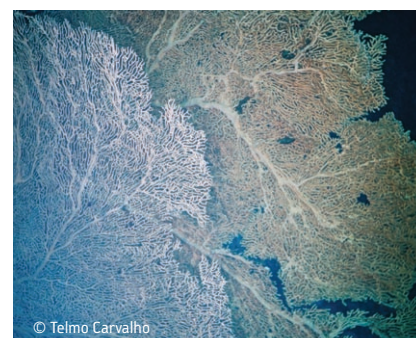
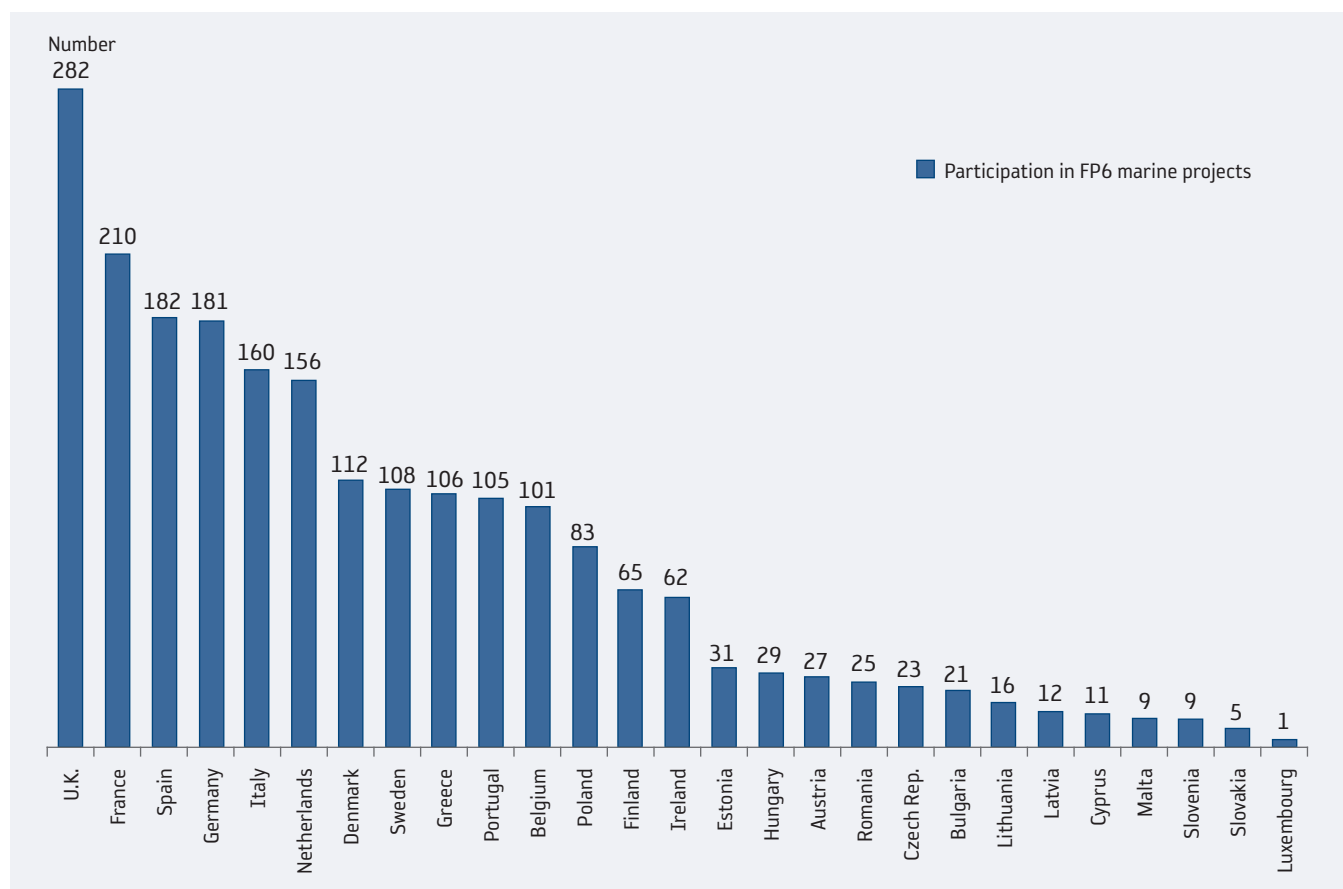


Figure 6. Distribution of the participations in FP6 funded projects in Marine Science & Technology, by EU Members, in Number



Source:
EurOcean.2009

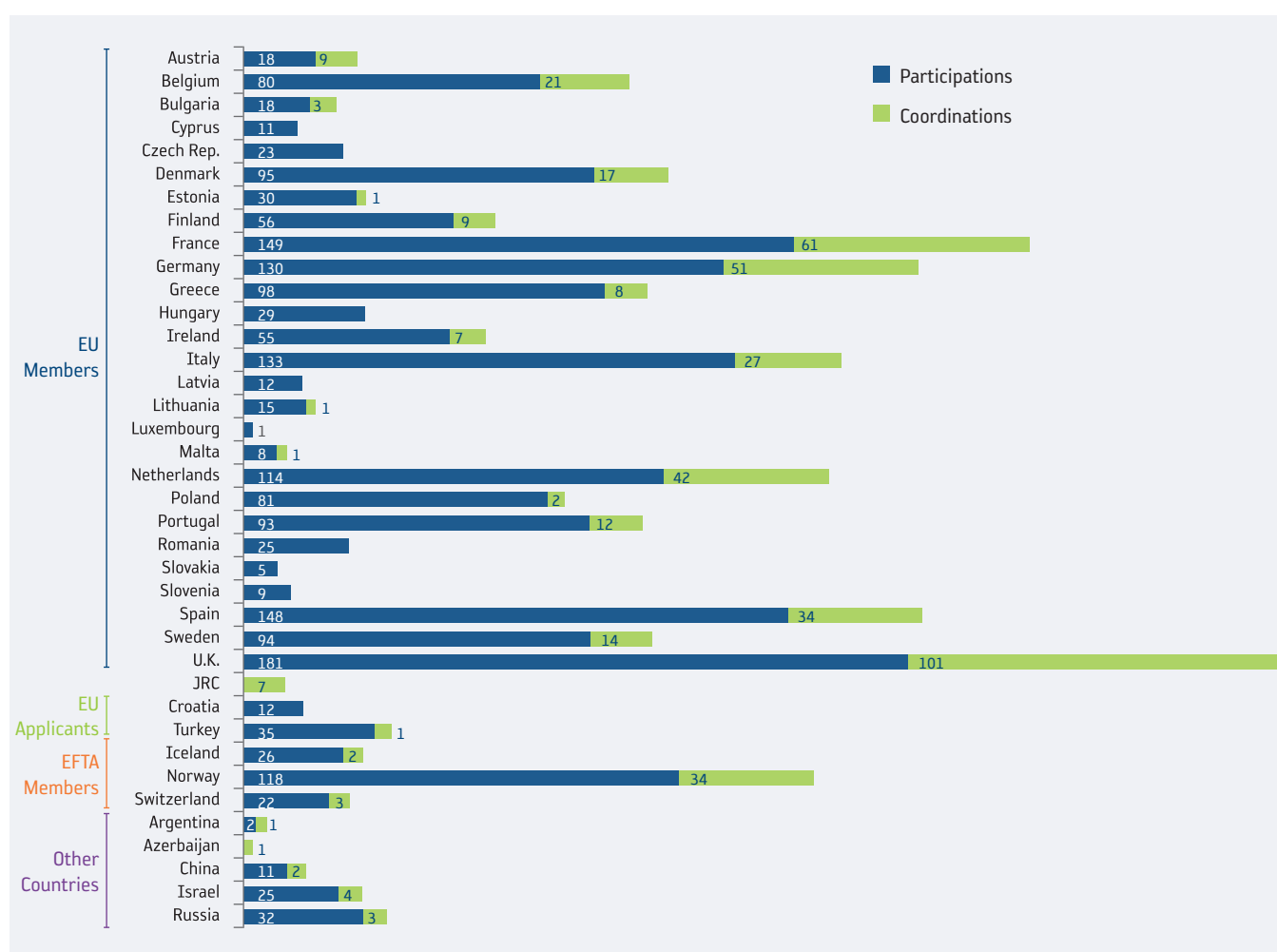
2.3.1. Distribution of projects by Coordinator Country

In FP6 it was required to specify a Coordinator for the project which received the final funding from the EC for distribution amongst the consortium. In analysing the distribution of FP6 marine projects by Coordinator Country it is visible that United Kingdom is the country responsible for the coordination of the highest number of projects (see figure 7), 101 FP6 marine related projects and participating in 181 as partner. France comes in second with 61 coordinations and 149 participations in other projects. In third is Germany with 51 projects coordinations.

Regarding non-EU countries, Norway coordinates the highest number of projects, with 34 research projects and participations in another 118 projects. Far behind are: Israel, with 4 coordinations; Switzerland and Russia with 3 leaderships each. As for the partnerships, Turkey, an EU applicant, comes in second with 35 participations followed by Russia with 32.

Of the EU member countries only Cyprus, Czech Republic, Hungary, Latvia, Luxembourg, Slovakia and Slovenia don't have projects coordinations, in analysing this fact it should be taken into account that several of these countries do not have coastline and most of them (with the exception of Luxembourg) are recent members of the EU (joined in 2004 – with the FP6 already in progress).

Figure 7. Distribution of the FP6 funded projects in Marine Science & Technology, by Coordinator Country, in Number



Source:
EurOcean.2009

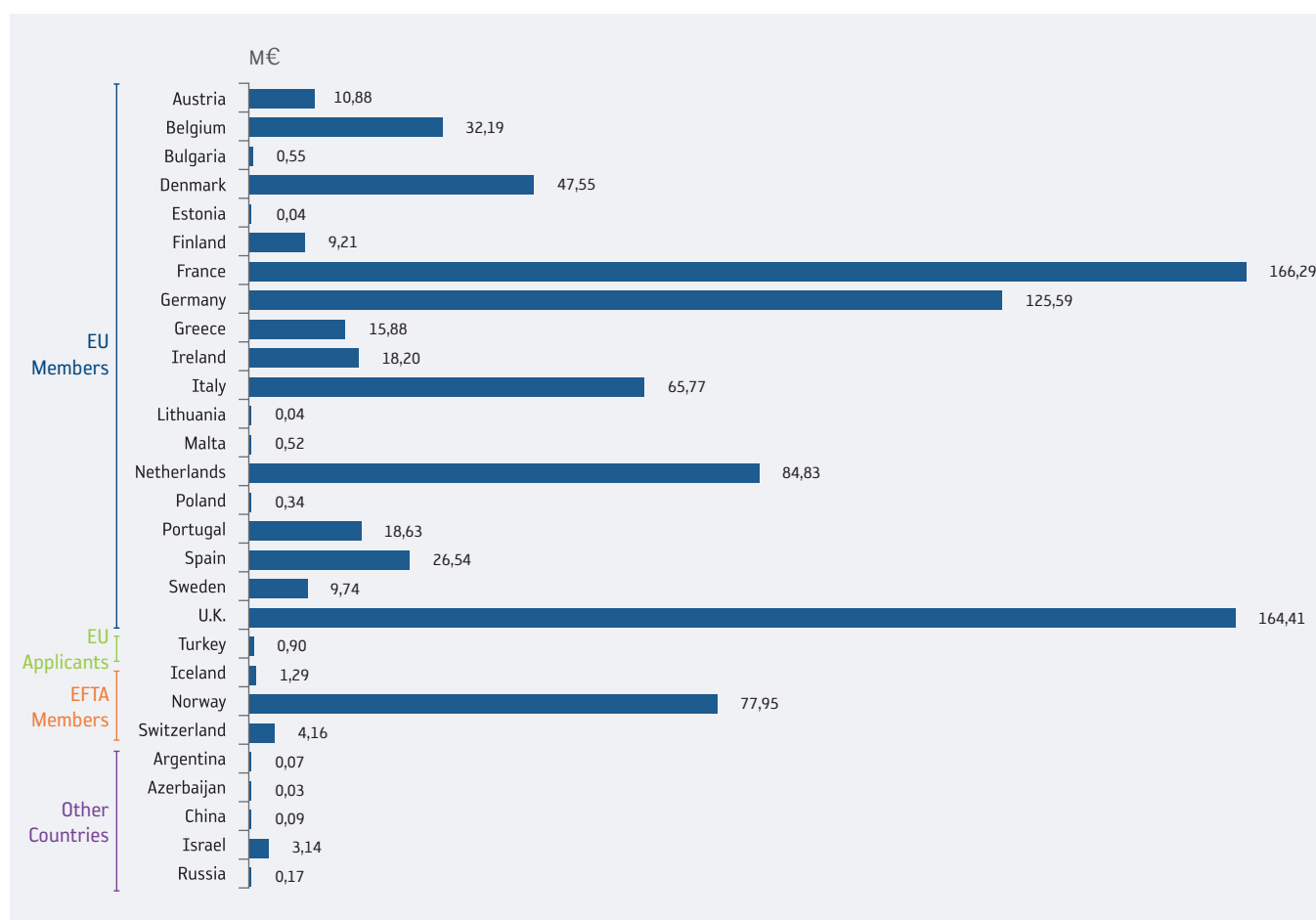
2.3.2. Distribution of funding by Coordinator Country

France with 166,29 M€ is the country that coordinates more FP6 funding, followed closely by the United Kingdom (with 164,41 M€), in spite of the differences in terms of number of projects coordinations. As stated above, France has less 40 project coordinations than United Kingdom. Together, United Kingdom and France coordinate 38% of all the marine related funding in FP6.

In the third position appears Germany with 125,59 M€ and in fourth is the Netherlands coordinating a total amount of 84,83 M€. Spain that is fourth (with Norway) in the number of projects coordinations only appears in the ninth place in terms of funding with 26,54 M€.

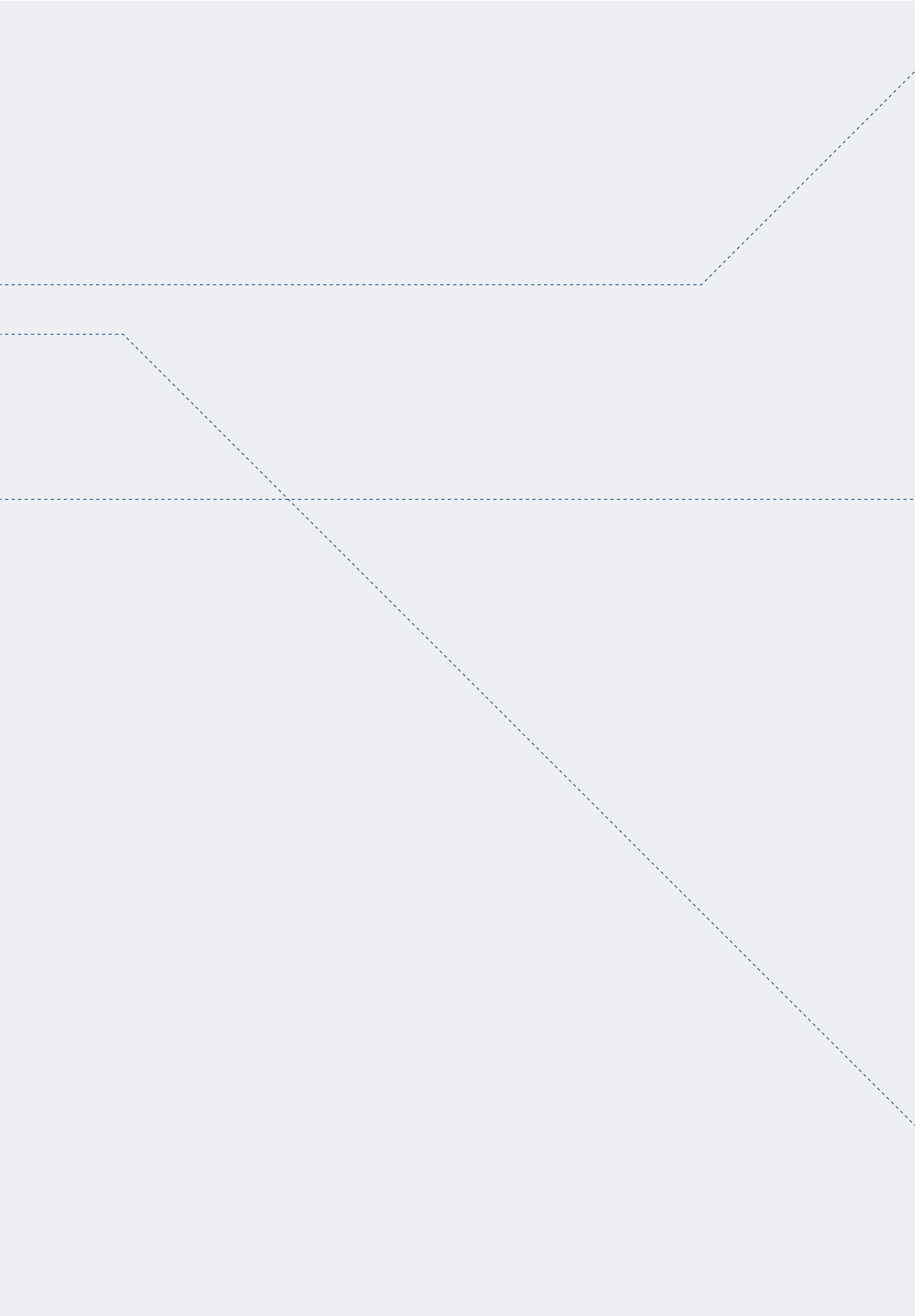
Norway is the non-EU country that coordinates the largest amount of funds with 77,95 M€, followed by Switzerland with 4,16 M€ and by Israel with 3,14M€. The other non-EU countries that coordinate FP6 projects are Argentina (a *Marie Curie Action*), Azerbaijan (*Specific International Co-operation Activities* project), China (2 *Marie Curie Actions*) Iceland (A *SMEs* project and a *Sustainable Surface Transport* project) Russia (3 *Specific International Co-operation Activities* projects). Turkey, an EU applicant also coordinates a *Specific International Co-operation Activities* project.

Figure 8. Distribution of the FP6 funding for Marine Science & Technology, by Coordinator Country, in Euros



Source:
EurOcean.2009







**CHARACTERIZATION OF THE PRIORITY AREAS OF
SUSTAINABLE DEVELOPMENT, GLOBAL CHANGE
AND ECOSYSTEMS AND HUMAN RESOURCES
AND MOBILITY-MARIE CURIE ACTIONS**

3.

3. CHARACTERIZATION OF THE PRIORITY AREAS OF SUSTAINABLE DEVELOPMENT, GLOBAL CHANGE AND ECOSYSTEMS AND HUMAN RESOURCES AND MOBILITY-MARIE CURIE ACTIONS

3.1. Priority Thematic Area of Sustainable Development, Global Change and Ecosystems

3.2. Activity Area of Human resources and Mobility – Marie Curie Actions

The previously analysis evidenced the Area that received the biggest incentive in terms of funding – the Priority thematic Area of *Sustainable Development, Global Change and Ecosystems*. Regarding the number of projects *Human Resources and Mobility - Marie Curie Actions* dominate. The following figures give a more detailed analysis on these Areas.

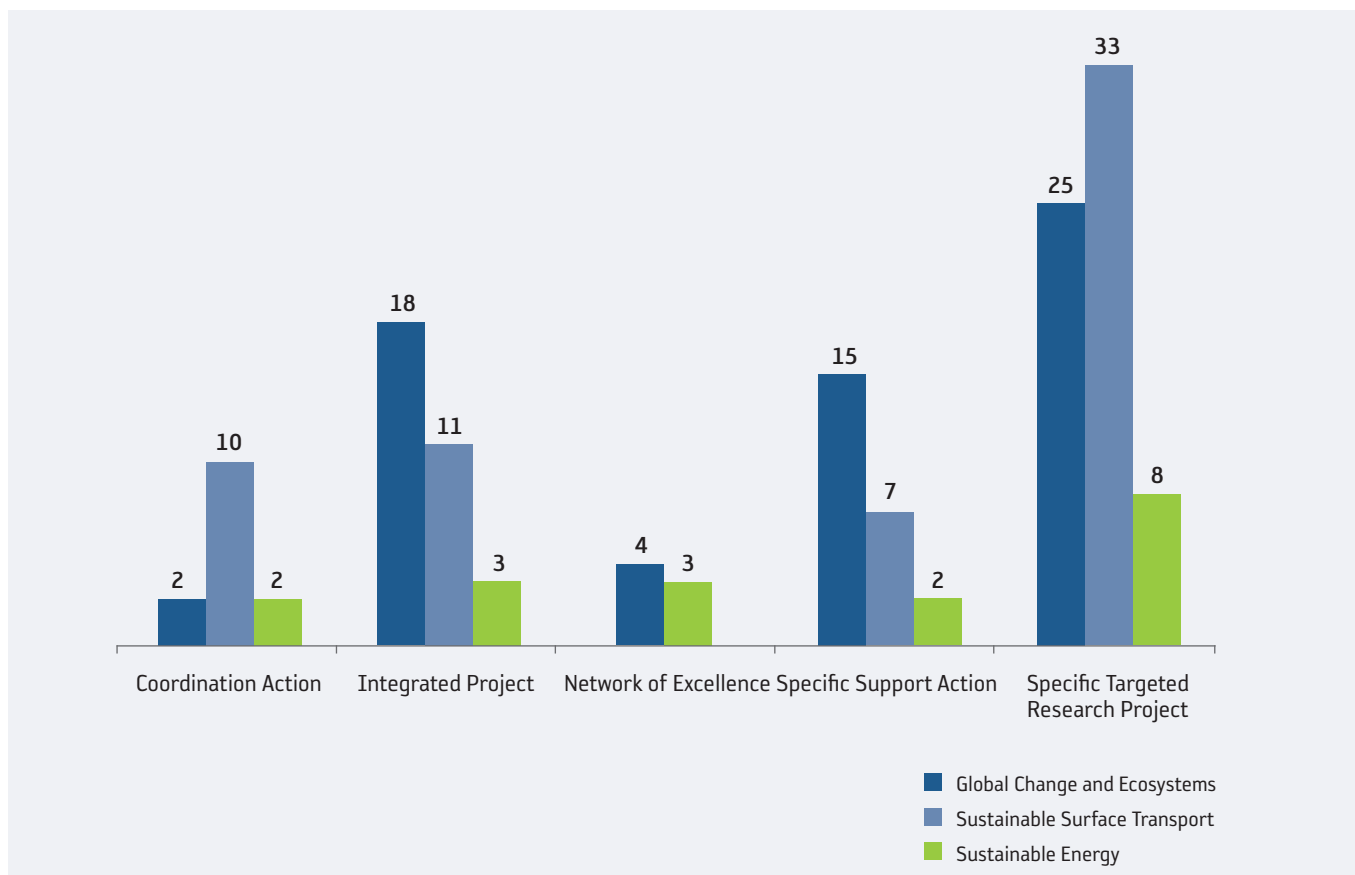
3.1. Priority Thematic Area of Sustainable Development, Global Change and Ecosystems

The main objective of the Thematic Priority Area of *Sustainable Development, Global Change and Ecosystems* is to strengthen the “S&T capacities needed for Europe to be able to implement a Sustainable Development model in the short and in the long term, integrating its social, economic and environmental dimensions”¹.

The Area of *Sustainable Development, Global Change and Ecosystems* was divided in three sub-priorities, as referred before. These sub-priorities, which had independent budgets allocated, are: *Global Change and Ecosystems*; *Sustainable Surface Transport*; and *Sustainable Energy*. These three sub-priorities, which were analysed independently, collect together for marine research the amount of 500,9M€ which represents 57% of the total marine related funds attributed by FP6.

In comparing the three sub-priorities *Global Change and Ecosystems* and *Sustainable Surface Transport* stand out, with the same number of projects funded – 64 projects, against only 15 projects funded in the sub-priority of *Sustainable Energy*.

Figure 9. Distribution of the marine funded projects on Sustainable Development, Global Change and Ecosystems, by funding Instrument, according to sub-priority Thematic Area, in Number

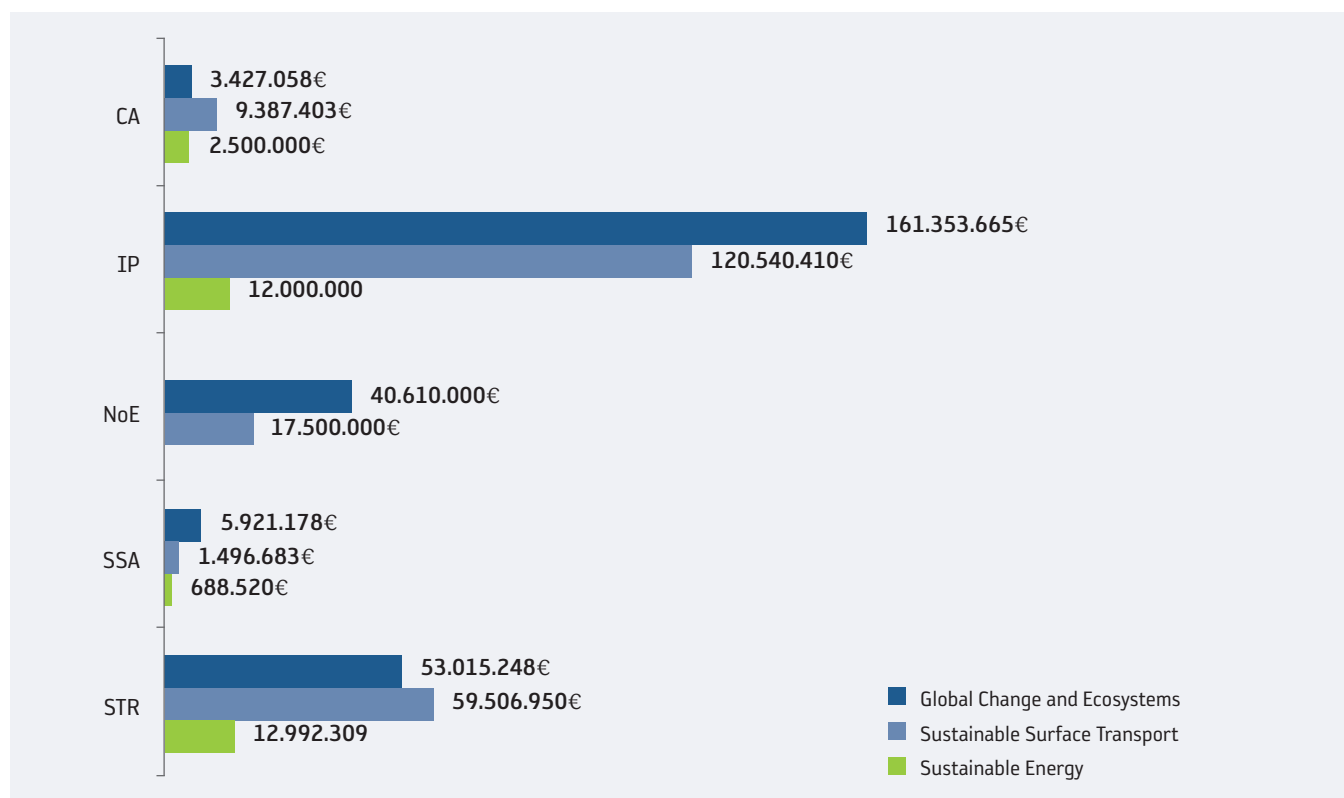


Source:
EurOcean.2009

1_ The 6th Framework Programme in Brief, EC (2002)

The distribution of projects by type of funding instrument shows that (see figure 9), for all the sub-priorities, the Specific Targeted Research Projects is the instrument that has more projects funded, although if we look at the distribution in terms of funding (see Figure 10), Integrated Projects received the larger portion in the sub-priorities of *Global Change and Ecosystems* and *Sustainable Surface Transport*, collecting, 61% of the funds for *Global Change and Ecosystems* and 58% of the funds of *Sustainable Surface Transport*. As for the projects funded through the sub-priority of *Sustainable Energy* the higher funding awarded was to the Specific Targeted Research projects representing 46% of the total *Sustainable Energy* marine devoted funds.

Figure 10. Distribution of marine funded projects on Sustainable Development, Global Change and Ecosystems, by funding Instrument, according to sub-priority Thematic Area, in Euros



Source:
EurOcean.2009

Integrated Projects predominance is not surprising considering the European Research Strategy in the pursuit of the objectives of Structuring and Strengthening the ERA: “An Integrated Project is an instrument to support objective-driven research where the primary deliverable is new knowledge. In addition, by mobilising a critical mass of resources, integrated projects should also have a structuring effect on European research.”²

Specific Targeted Research Projects have a more limited scope than Integrated projects. They derive from the shared-cost RTD projects that existed in FP5. The European Community support is in form of a grant in percentage of the total budget of the project, representing a lower investment per project.

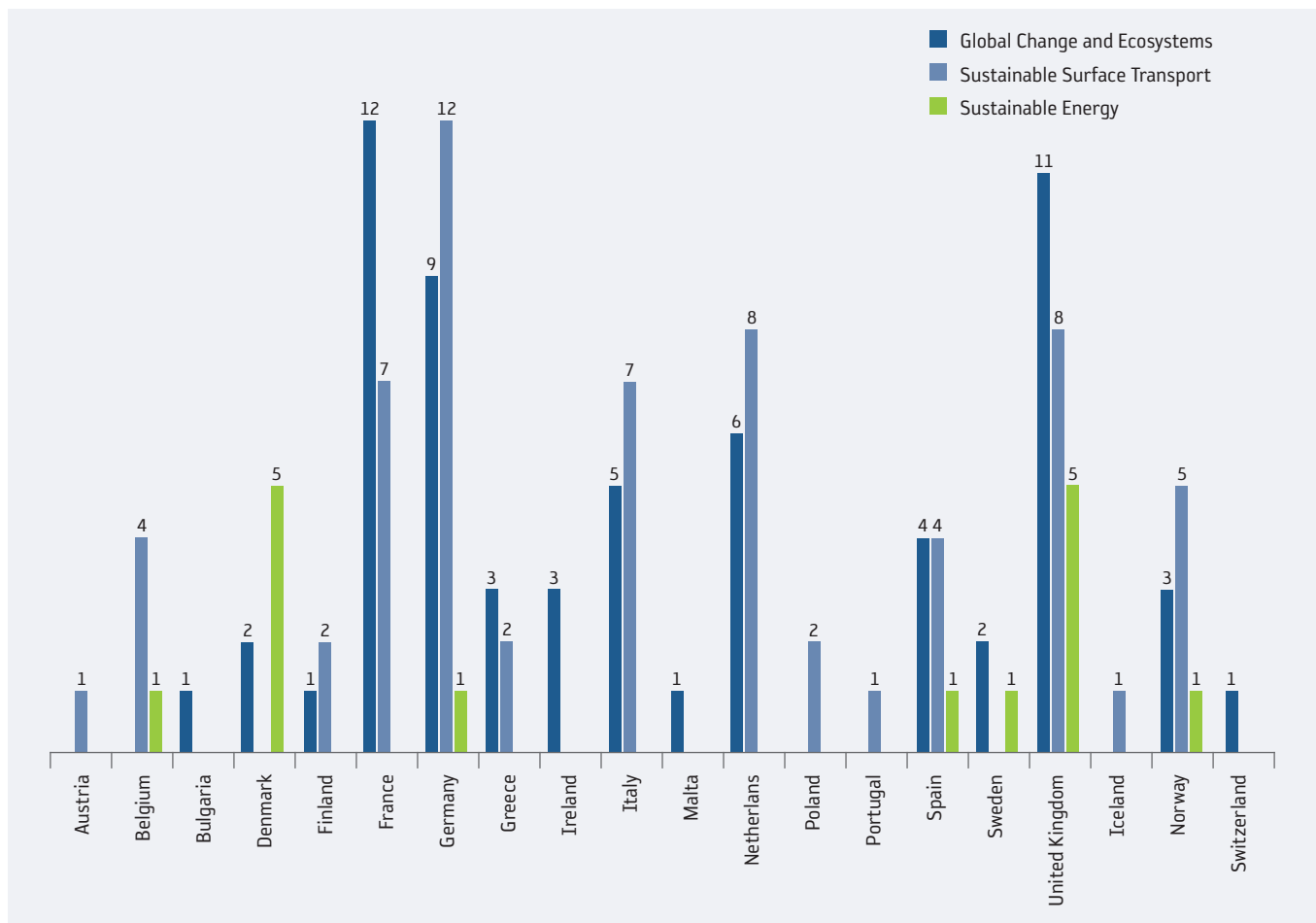
As for the coordination of projects (see Figure 11), France is the country with more coordinations in the sub-priority activity of *Global Change and Ecosystems* with 12 projects followed by United Kingdom (11) and Germany with 9 project coordinations.

² http://ec.europa.eu/research/fp6/pdf/leaflet-ip_en.pdf

In the sub-priority of *Sustainable Surface Transport* Germany is leader in the coordination of the marine related projects of this sub-priority with 12 projects which represent 20% of the total *Sustainable Surface Transport* marine related projects financed. Following Germany, with 8 projects each, are the Netherlands and the United Kingdom.

In the sub-priority of *Sustainable Energy* the first place is shared by Denmark and by the United Kingdom with 5 projects coordinations each in the area of marine sustainable energy.

Figure 11. Distribution of Sustainable Development, Global Change and Ecosystems marine funded projects, by Coordinator Country, in Number



Source:
EurOcean.2009

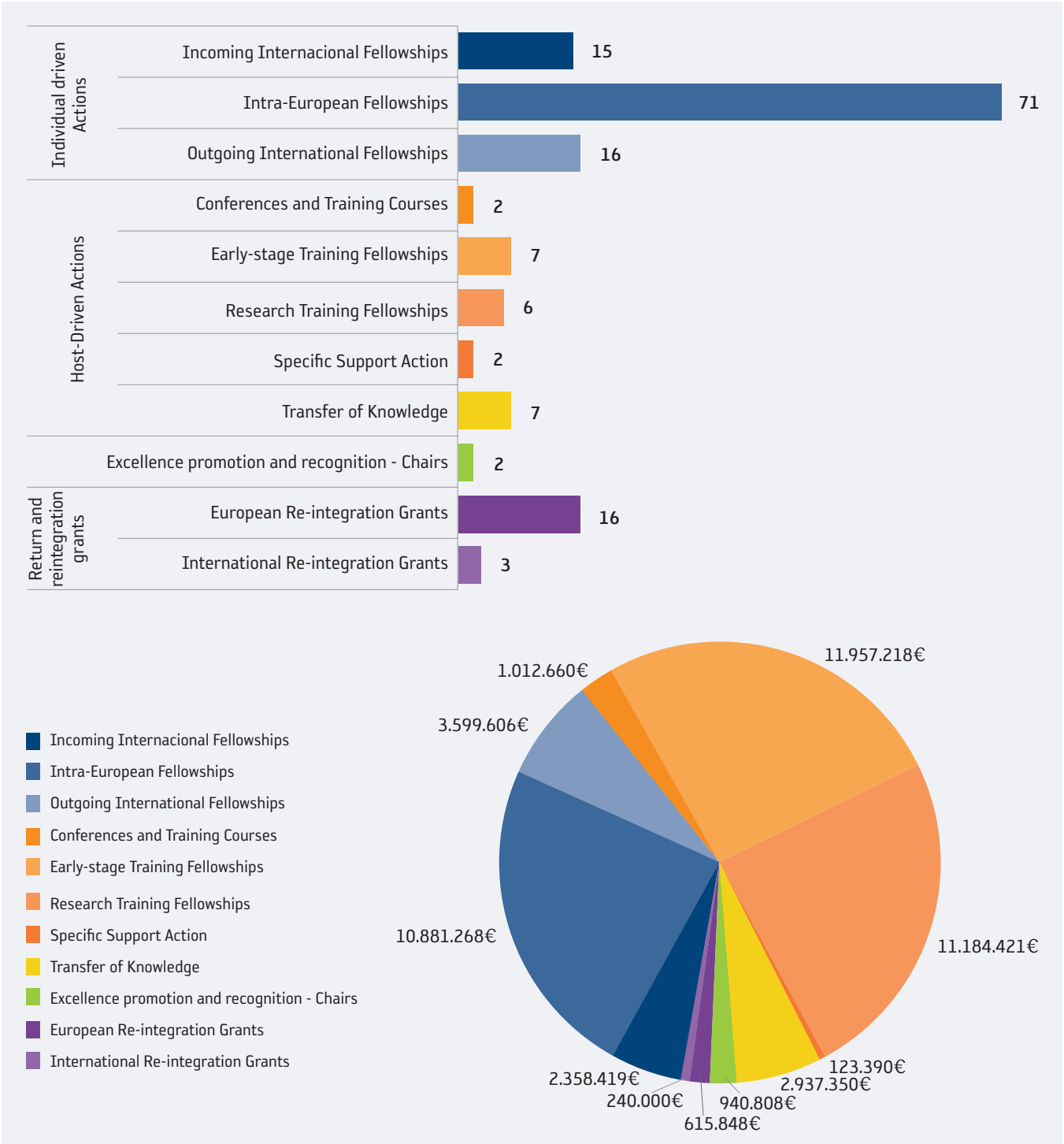
3. 2. Activity Area of Human Resources and Mobility - Marie Curie Actions

Marie Curie Actions have the objective of “providing broad support for the development of abundant and dynamic world class Human Resources in the European Research system, taking into account the inherent international dimension of research”³. The different instruments used offer several opportunities for researchers in different stages of their career. There are four types of Actions in FP6: i) Host-driven Actions; ii) Individual Driven Actions; iii) Excellence Promotion and Recognition; iv) and Return and Reintegration Mechanisms.

3_ The 6th Framework Programme in Brief, EC (2002)

By observing the charts below (see figure 12), is clear that Individual Driven Actions were the most fomented by the FP6 summing up to 70% (102) of all the Marie Curie Actions devoted to marine research, however these Actions only gathered 37% of the funds attributed to the total Marie Curie Actions of marine related research. In the perspective of the funding awarded is the Host –driven Actions that gathered more funds; specially the Fellowships for Early-stage Training (26%) and Research Training Networks (24%) that represent the larger investment, considering the large amount of funding available for each action and the small number of grants endorsed.

Figure 12. Distribution of marine funded projects on Human Resources and Mobility, by funding Instrument, in Number and in Euros



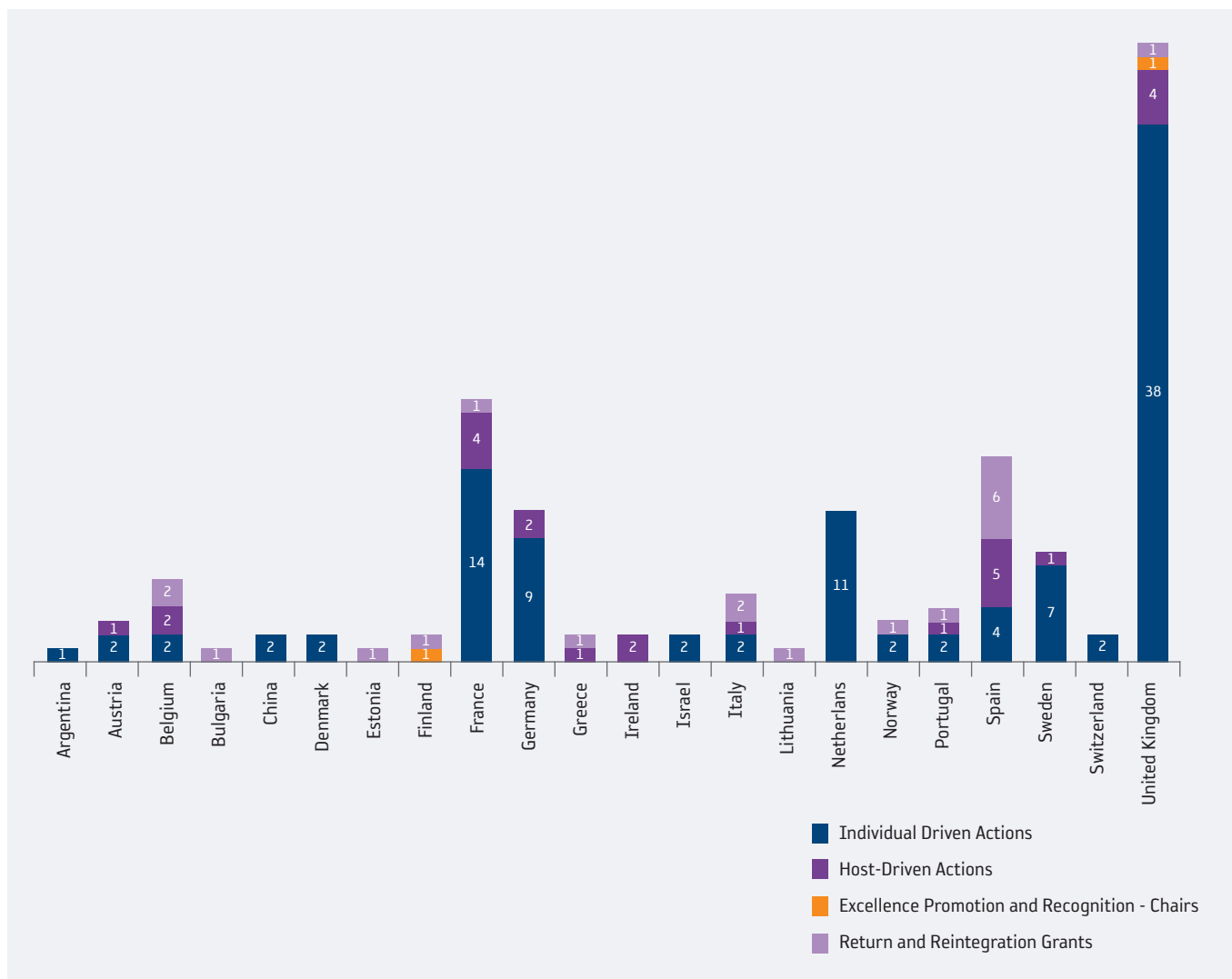
Source:
EurOcean.2009

Intra-European Fellowships also collected a small amount of funding, in comparison with the high number of projects supported (71), as it corresponds to individual grants that have the objective of allowing EU members researchers to spend one or two years doing research in another EU member or Associated country, having fewer costs than the Host-driven Actions above mentioned.

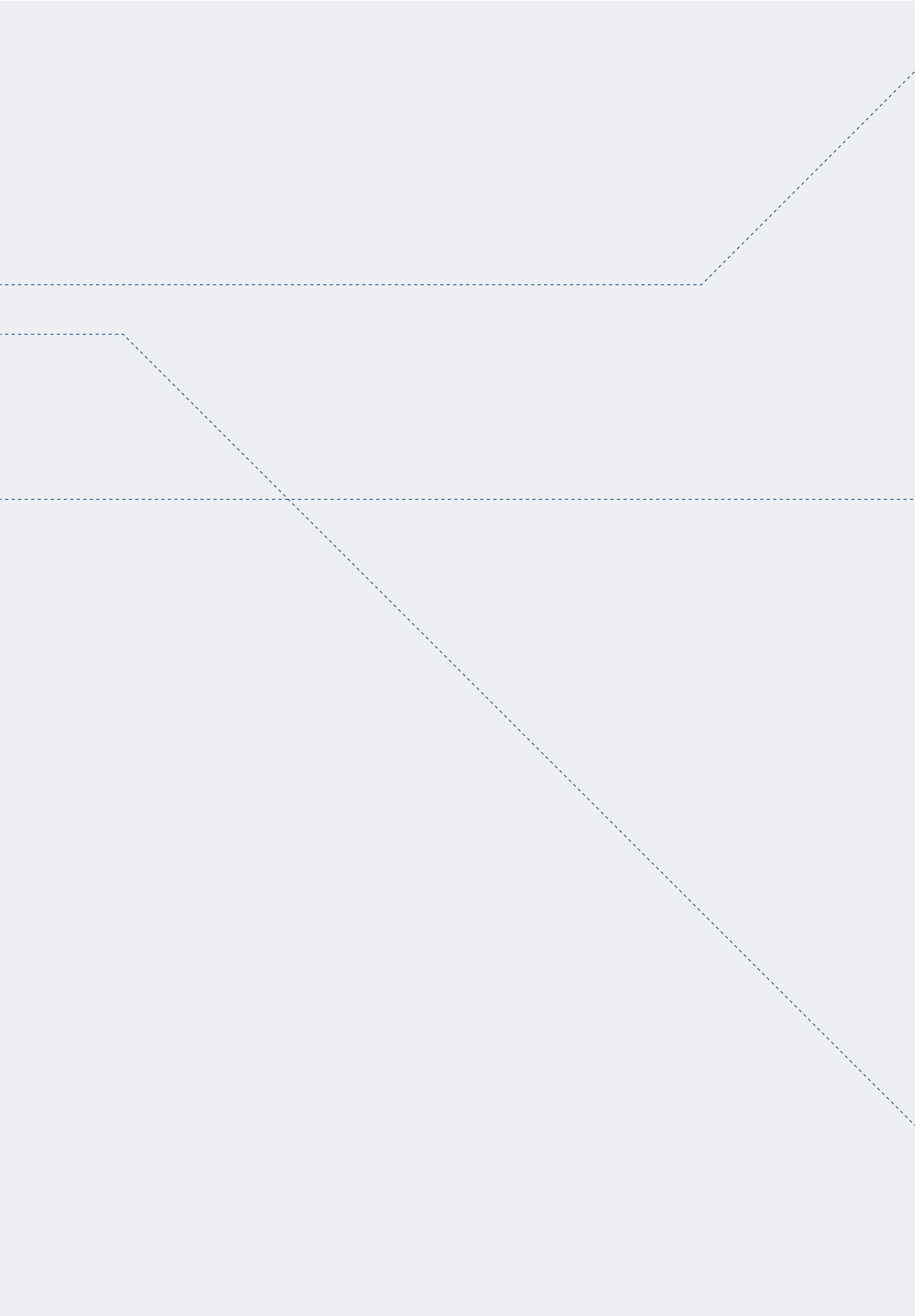
Observing the distribution of projects by Coordinator Country (see figure 13); United Kingdom stands out from the rest of the countries, with 44 *Marie Curie Actions* funded. Far behind is France with 19 *Marie Curie Actions*, less than half of the United Kingdom.

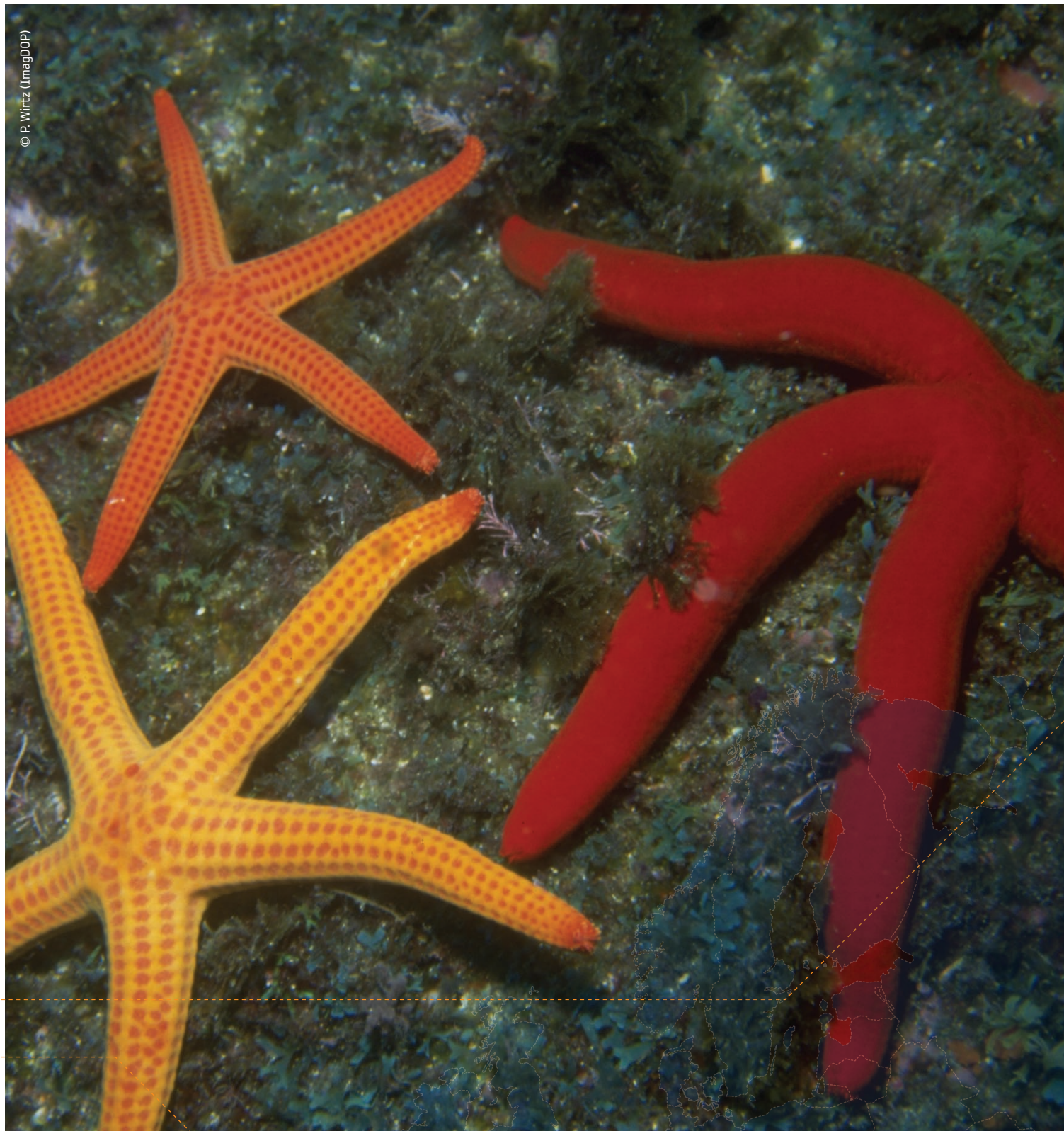
Looking at the type of Actions funded we see that, in Individual Driven Actions, United Kingdom, with 38 Actions funded, is the leader having more than the double of the following Country with more Individual Driven Actions funded (France with 14). Spain is first in Return and Reintegration Grants (6 Actions) and in Host-Driven Actions (5 Actions funded). Excellence promotion and recognition only had two actions funded, one in Finland and the other in United Kingdom.

Figure 13. Distribution of marine funded projects on Human Resources and Mobility, by type of Action, according to Coordinator Country



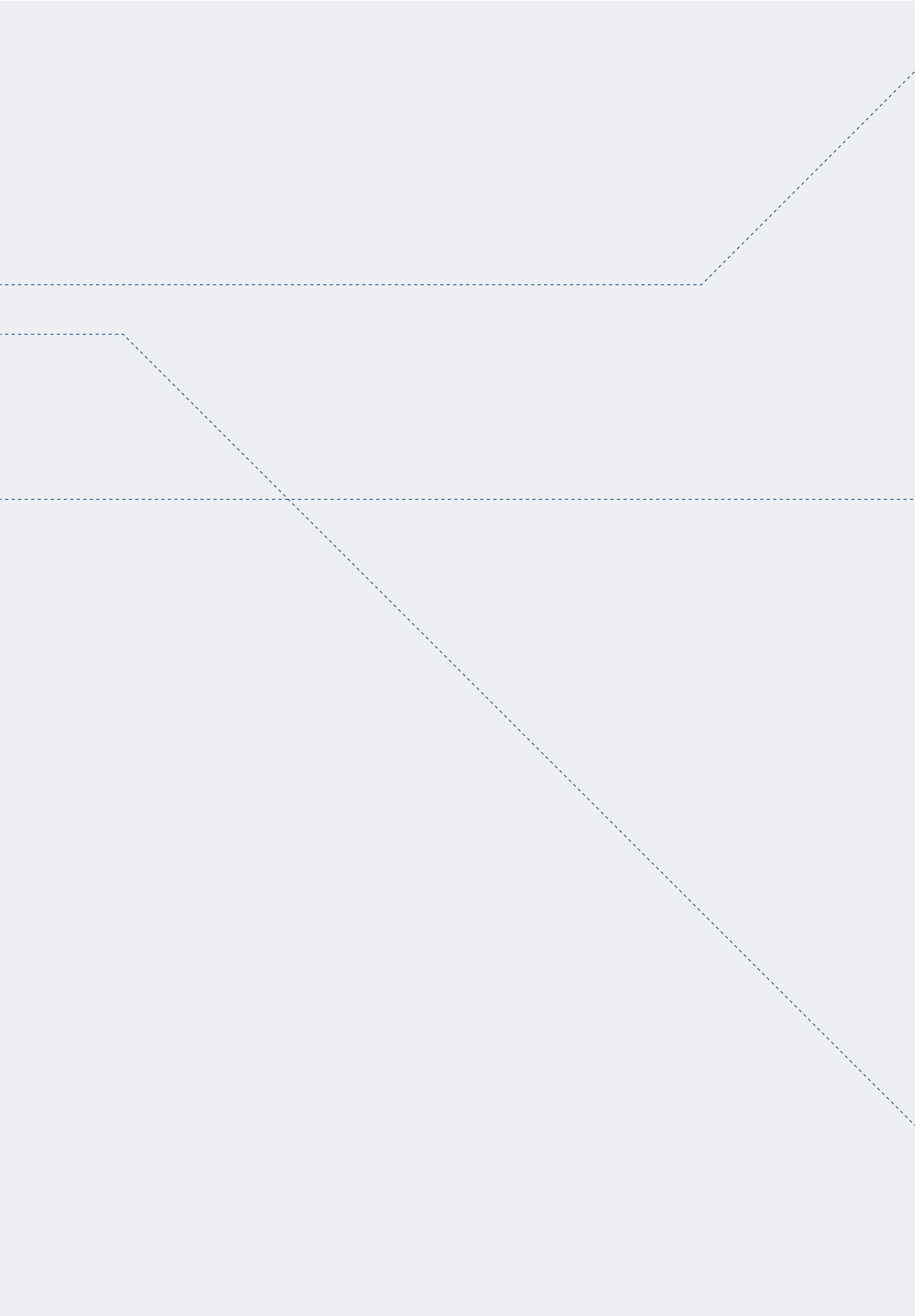
Source:
EurOcean.2009





4. SUMMARY

- The 6th Framework Programme funding for marine related research amounts to 885 M€ which represents 4,9% of the total FP6 budget.
- The Framework Programme funding for marine research almost doubled from FP5 for FP6.
- The Priority Theme Area of FP6 that received more funding dedicated to marine research was *Sustainable Development, Global Change and Ecosystems* specially the sub-priorities of *Global Change and Ecosystems* and *Sustainable Surface Transport*.
- In terms of the number of projects the Activity Area with more funded projects was *Human Resources and Mobility - Marie Curie Actions* with 146 projects funded.
- The marine research projects funded under FP6 brought together 94 countries; of special notice the 22 African countries that collaborated in the projects.
- United Kingdom was the country that participated in more marine related projects with 282 participations (181 participations and 101 coordinations).
- France is the country responsible for the coordination of 166,29 M€, making it the country responsible for more FP6 marine related funding.





**LIST OF MARINE RELATED PROJECTS FUNDED
UNDER THE SIXTH FRAMEWORK PROGRAMME
(ordered by Priority Thematic or Activity Area)**

5.

**5. LIST OF MARINE RELATED PROJECTS FUNDED UNDER
THE SIXTH FRAMEWORK PROGRAMME
(ordered by Priority Thematic or Activity Area)**

PRIORITY ACTIVITY AREA

*SUB-PRIORITY ACTIVITY AREA (Sustainable Development, Global Change and Ecosystems) or
TYPE of ACTION (Marie Curie Actions)*

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
Aeronautics and Space			
HALO	Harmonised coordination of the atmosphere, land and ocean IPs of the GMES Backbone	United Kingdom	SSA
INSEA	Data Integration System for Eutrophication Assessment in Coastal Waters	Portugal	STREP
LIMES	Land and sea integrated monitoring for European security	Italy	IP
MERSEA	Marine environment and security for the European area	France	IP
MONRUK	Monitoring the Marine Environment in Russia, Ukraine and Kazakshtan using Synthetic Aperture Radar	Norway	STREP
MOTIIVE	Marine overlays on topography for Annex II (thematic data- marine/coastal) valuation and exploitation	United Kingdom	SSA
PEARL	Port Environmental Information Collector	Spain	STREP
Coordination of Research Activities – ERA NET scheme			
AMPERA	ERA-Net to foster prevention and best response to Accidental Marine Pollution	Spain	CA
BIODIVERSA	ERA-Net in biodiversity sciences	France	CA
BONUS	BONUS for the Baltic Sea science – network of funding agencies	Finland	CA
CIRCLE	Climate impact research co-ordination within a larger Europe	Austria	SSA
CIRCLE CA	Climate impact research co-ordination within a larger Europe	Austria	CA
Coastal-ERA	Control objectives and shellfish target assurance levels ERA- NET	Spain	SSA
CRUE	Coordination of research financed in the European Union on Flood risk management	United Kingdom	CA
ECORD	European consortium for ocean research drilling	France	CA
EUROPOLAR	The European Polar Consortium: strategic coordination and networking of European polar RTD programmes	France	CA
MARIFISH	Coordination of European Marine Fisheries Research Programmes	United Kingdom	CA
MARINERA	Coordination of national and regional marine RTD activities in Europe	France	CA

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
MARTEC	Maritime Technologies	Germany	CA
NET-BIOME	NETworking tropical and subtropical Biodiversity research in OuterMost regions and territories of Europe in support of sustainable development	France	CA
Food Quality and Safety			
AQUAGRIS	Environmental management reform for sustainable farming, fisheries and aquaculture	United Kingdom	CA
AQUAMAX	Sustainable aquafeeds to maximise the health benefits of farmed fish for consumers	Norway	IP
BIOTOX	Cost effective tools for risk management and traceability systems for lipophilic marine biotoxins in seafood	Netherlands	STREP
BIOTOXMARIN	Development of novel analytic tools for the detection of marine biotoxins	Germany	STREP
CODE-EFABAR	Code of good practice for farm animal breeding and reproduction	Netherlands	SSA
CONSENSUS	Multi-stakeholder platform for sustainable aquaculture in Europe	Belgium	CA
DETECTOX	Development of an SPR-based biosensor for the detection of lipophilic phycotoxins in shellfish residues	United Kingdom	STREP
EADGENE	European Animal Disease Genomics Network of Excellence for Animal Health and Food Safety	France	NoE
ERMES	European Research for MEditerranean Seafood	Belgium	SSA
EUROLATSEA	European Research for the Latin-American Seafood industry	Belgium	SSA
IMAQUANIM	Improved immunity of aquacultured animals	Denmark	IP
LIPGEN	Diet, genomics and the metabolic syndrome: an integrated nutrition, agro-food, social and economic analysis	Ireland	IP
SEAFOODPLUS	Health improving, safe seafood of high quality in a consumer driven fork-to-farm concept	Denmark	IP
SUSTAINAQ	Sustainable aquaculture production through the use of recirculation systems	Norway	SSA
Human Resources & Mobility - Marie Curie Actions			
<i>INDIVIDUAL DRIVEN ACTIONS</i>			
ADELIEPENGUINSUCCESS	Long-term foraging success in an Antarctic top-predator, the Adélie Penguin: effect of individual quality, colony size and access to prey	France	OIF
ALLELO-SIGNALLING	Dissection of signal transduction cascades regulating inter and intra-species interactions among phytoplankton assemblages in the marine environment	France	I-EF

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
AQUA-FINDER	Locating chemical hot-spots in the water using underwater robots	Portugal	OIF
ARTIFICIAL SYMBIOSIS	Artificial symbiosis for the cultivation of marine invertebrate-associated bacteria	Spain	OIF
AUVI	Autonomous vehicle for underwater inspections	Argentina	IIF
BCR	The Blues of Coral Reefs	Israel	OIF
BIOECOTOX	Biomarkers: the early warning sentinel of chemical pollution risk assessment	Italy	I-EF
BIO-ENGINEERS	Influence of biological and physical processes on intertidal sediment dynamics and on the release of pollutants trapped in sediments and the toxicity of these pollutants	United Kingdom	I-EF
BIOMECH	Biomechanics of the Sediment Erosion, Transport, Deposition and Consolidation cycle	United Kingdom	I-EF
BIOSCALE	Upscaling and modelling the influences of BIOturbation activities on sediment erosion at the SCALE of the Westerschelde estuary	Netherlands	I-EF
BIOWARM	Marine sponges as models for assessing biological effects of the Mediterranean Sea warming	Spain	I-EF
BIRD SPATIAL ECOLOGY	From individual behaviour to population dynamics in the Oystercatcher using spatially and temporally explicit approaches	Netherlands	I-EF
BRYOARC	Biodiversity and adaptation in Arctic bryozoans	United Kingdom	I-EF
CAESAR	Capillary electrophoretic separation of dissolved carbohydrates of the aquatic realm	Netherlands	I-EF
CARBALIS	Carbon and Ballast Interactions during Sinking: an Experimental and Modelling Approach	France	OIF
CD-PALEO	Development of Cadmium isotopic measurements by MC-ICP-MS using a double spike approach: Application to marine sediments and paleoceanography	Germany	I-EF
CHARMAD	Chemical characterisation and cycling of marine dissolved organic matter	France	I-EF
CONTROXFISH	Controlling Oxidative Deterioration During Manufacturing and Storage of Healthy Seafood Products Prepared from na Underutilised Fatty Fish Specie	Denmark	I-EF
CORALS AND ENDOLITHS	Relationship between living and growing corals and microbial endoliths: parasitism or mutualism	France	OIF
CORETEX	Mapping and Monitoring Coral Reefs Using Satellite Image Data and Texture Analysis Methods	United Kingdom	OIF
DEFUNIREG	Diversity and ecological function of benthic nitrate reducing populations along an estuarine nitrate gradient	United Kingdom	I-EF

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
DIATRACK	Functional diversity in marine biogeochemistry: a combined approach using fluorescent and isotopic tracers for the quantification of silica deposition by individual diatom cells.	France	IIF
DIFMET	Diffusive trace metals in Arctic Ocean surface waters	United Kingdom	I-EF
DINO-CULT	Calcareous dinoflagellate culturing experiments: understanding the life cycle of oceanic species	United Kingdom	I-EF
DIVERPLAN	DIVERSity of marine microPLANKton	United Kingdom	I-EF
DNACHIP	Construction of a DNA CHIP for the identification of marine fishes, their eggs and larvae in European waters	Germany	IIF
ECCRE	Biodiversity and Vulnerability of European Cold-Water Coral Reef Ecosystems	United Kingdom	IIF
ECOCOD	Environmental Control of Cod Dynamics	Norway	I-EF
ECOGIB	Ecohydrodynamical data analysis and modelling studies of the Gibraltar Strait	Belgium	I-EF
ECOTRENDS	Long-term trends on high-diverse benthic communities in the NW Mediterranean Sea: Ecological consequences of climate change	France	I-EF
ECTOPATH	Pioneering post-genomic approaches for studying algal host-pathogen interactions: characterization of the Ectocarpus-Eurychasma model	United Kingdom	I-EF
ERATS	Ecological risk-assessment of transgenic salmon	Sweden	OIF
ESFCR	Ecological Structure and Functioning of the Cambrian Radiation	France	I-EF
ESUMAST	Ecological Significance of Uncultured Marine Stramenopiles	Spain	I-EF
EUROFISHCODE	DNA barcodes for species identification of fish and shellfish in Europe: implementation and application in selected case-studies.	United Kingdom	I-EF
EXTALGAE	Biological consequences of global climate change. The effects of salinity and temperature in extremophilic algae.	Sweden	I-EF
FAIRY	Factors controlling the bioavailability of Atmospheric Iron in the maRine ecosYstems	France	OIF
FISHBONEP	Role of Parathyroid Hormone related Protein (PTHrP) in endochondral bone development: Application as a possible marker for skeletal anomalies in fish.	Portugal	OIF
FISHIMRES	Functional characterisation of the fish immune response to parasite	Netherlands	I-EF
FISHINOIDS	Fish and Flavonoids	United Kingdom	IIF
FLOW IN MUSHY LAYERS	Solidification of mushy layers: numerical investigation and natural implications	United Kingdom	I-EF

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
GLASEAL	Acceleration of glacier wastage and sea level rise	Sweden	IIF
GNOM	Groundwater-derived Nutrient and Organic Matter: alteration during transit through coastal sediment	Switzerland	OIF
HOMER	Hydrophobicity, Lipophilicity and Bioavailability of Trace Metals in Coastal Systems	United Kingdom	I-EF
HSE DEGASSING SYSTEM	Degassing systematics of Highly Siderophile Elements from magmas: New constraints on the convecting mantle, and the origins of global HSE anomalies in sedimentary rocks.	United Kingdom	I-EF
HYDRAMED	Geological Assessment of Gas Hydrates in the Mediterranean Sea	Italy	I-EF
IAC IOCEX	Impact of upstream anomalies in the Agulhas Current system on the inter-ocean exchange and primary production around Southern Africa	Netherlands	I-EF
ILVIROMAB	Impact of Lysogenic Viruses on Marine Bacterioplankton	France	I-EF
INTERAM	Larval Invertebrate Microalgal Interactions	United Kingdom	IIF
ISOCLIV	Exploring the influence of intraseasonal oscillations on the climate variability in the Indo-Pacific sector during boreal summer	United Kingdom	I-EF
LIST	Larvae in situ tracking: detection and identification of early-life-stages of marine organisms using in situ hybridisation with oligonucleotide probes	Germany	I-EF
LOTUS	Long time-series undersea surveillance	United Kingdom	OIF
MACROmicro	Macrofaunal impact on microbial diversity and organic contaminant degradation in marine sediments	Denmark	I-EF
MACRO-MSAA	Synthesis of Marine Macrolides and Hybrid Structures as Novel Microtubule Stabilising Anticancer Agents	United Kingdom	I-EF
MARCYAN2	Ecological control of nitrogen fixation in marine Cyanobacteria	Netherlands	I-EF
MARINE CH₄ OXIDATION	The role of water column methane oxidation in the global carbon budget	Germany	OIF
MARINE MAGNETISM	Probing the long-term forcing mechanisms of the Asian Monsoon by magnetic analysis of aeolian dust in sediments from the North Pacific Ocean	China	IIF
MARINE MAGNETISM	Probing the long-term forcing mechanisms of the Asian Monsoon by magnetic analysis of aeolian dust in sediments from the North Pacific Ocean	United Kingdom	IIF
MARIRON	Modelling the marine iron cycle: Past and future biogeochemical-climate feedbacks	Switzerland	IIF
MAST	Microarray analysis of salmon transcriptomes: Evaluation of a large cDNA array and production of a targeted diagnostic oligonucleotide array	United Kingdom	I-EF

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
MICELO	Forging a Link Between Millenial Cycles and Enso-Like Oscillations	United Kingdom	I-EF
MIDIA	Molecular indicators of DNA damage in aquatic organisms	United Kingdom	I-EF
MIGPAT	Migration pathways into deep-sea chemosynthetic environments	United Kingdom	I-EF
MISESCIREAD	Modelling Ice Sheet Evolution and Sea-Level Change to Investigate Rapid and Early Antarctic Deglaciation	Germany	I-EF
MOSEVEM	Modelling sedimentation and vegetation patterns in tidal marshes	Netherlands	I-EF
MT GENOME G.SALARIS	The mitochondrial genome of the fish parasite Gyrodactylus salaris - characterization and utility	United Kingdom	I-EF
NEW VENTS	New Zealand Cold Vents: Integrative petrographical, geochemical and geophysical investigations on active marine vents and fossil vents on land	Belgium	OIF
NOMORE	Mathematical Modelling for Parallel Multi-Scale Numerical Simulation of Pollution Processes in Marine Environment	France	I-EF
OIBH2O	The origin of water in ocean island volcanism: correlating volatile and radiogenic isotope signatures in Atlantic OIB	United Kingdom	I-EF
PAPHOS	Prokaryotic activity and phylogeny of oceanic systems	Netherlands	I-EF
PCFluCS	Assessment of community structure and seston quality effects on plankton carbon fluxes at two contrasting coastal sites	Sweden	IIF
P-DIAGENEX	Pathways for Phosphorus (and Nitrogen) Release from Sediments of the Tamar Estuary (SW England) and the Gippsland Lakes (Australia) Eutrophic Ecosystems: Diagenesis Experiments and Modeling	United Kingdom	OIF
PHARMAR	Transformation and distribution properties of selected pharmaceuticals and personal care products (PPCPs) in the marine environment	Norway	I-EF
PLAICELIFELINE	Determination of Plaice lifetime movements in the North Sea by linking natural and electronic data records	United Kingdom	I-EF
POPIS	Polar organic pollutant integrative sampler for assessing bioavailability	China	IIF
PPCPs-TRANSWATER	Occurrence, Persistence and Impact of Pharmaceuticals and Personal Care Products-PPCPs in Transitional and Coastal Waters	United Kingdom	I-EF
PREMOCRA	Phylogeography and reproductive modes of two cryptic invasive red algae	Netherlands	I-EF
PREMOSGAMES	PREdictive MOdel of Seagrass Growth And MEadow Spreads	Netherlands	I-EF
PROACTINOR	Single cell activity of prokaryotes assessed by MICRO-CARD-FISH in relation to bulk prokaryotic activity in the North Atlantic deep waters.	Netherlands	I-EF

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
PROTARC	Molecular prospecting for novel bioactivities and understanding cellular proteolysis: Studies on proteases and unfoldases from hyperthermophilic Archaea	France	I-EF
P-T FISH FAUNA	South American Permo-Triassic Fish Fauna Turnover and its Bearing on the Mass Extinction Scenario	United Kingdom	I-EF
RADANN	Radiolarian artificial neural network based estimation of the paleo sea surface temperatures and salinities in the Arctic and Antarctic Ocean and their response to insolation forcing	Sweden	IIF
RAMSES	Risk Assessment Methodologies for Surfactants of Environmental Significance	Sweden	I-EF
S. ATLANTIC PLUME	The characterisation and temporal evolution of the South Atlantic Plume	United Kingdom	I-EF
SALMOHRID	Patterns and processes of salmonid diversification in Europe's oldest body of freshwater, Lake Ohrid	Austria	I-EF
SEDCoral	The Sedimentary Environment of Deepwater Corals : characterisation of a fragile marine habitat in need of conservation	United Kingdom	I-EF
SOVEREIGN	Experimental studies of morphological and physiological variation in <i>Nitzschia</i> spp: improving taxon delimitation and determining ecological tolerances for water quality assessment using diatoms	United Kingdom	I-EF
SPONGE-EVOLUTION	The Systematics of Sponges without Mineral Skeleton and its Phylogeographic Implications	Germany	OIF
SQUIDMATE	Testing for post-copulatory female choice in a cephalopod	United Kingdom	IIF
SUNKEN WOOD MICRODIV	Biodiversity and functions of microbial communities associated with sunken woods in marine environments	France	I-EF
SWODDIES	Dynamics of Slope Water Oceanic eDDIES in the Bay of Biscay.	Spain	I-EF
TAPAS	Alternative feeds in aquaculture: Transcriptome and Proteome Analyses in Salmon	United Kingdom	I-EF
TEMABESCA	Trophic Ecology of Marine Benthic Scavengers	Germany	I-EF
TEPIC	Trace elements in polar ice cores: Archives and source-of-region apportionment of toxic metals since Holocene	Germany	IIF
TICOPIC	Triple Isotopic Composition of Oxygen in Polar Ice Core to understand the links between climate change and water cycle	Israel	I-EF
TRAINERTJE	Modelling multimedia fate and exposure of organic chemicals	Sweden	I-EF
TRIASDIVERSITY	Patterns and processes of species diversification after mass extinctions: A case study on Triassic Pectinoidea (Mollusca, Bivalvia)	United Kingdom	I-EF
TROBAT	Trophic Resource Dynamics in Bathyal Demersal Communities	United Kingdom	I-EF

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
UVphytoMAA	UV photochemical bleaching of phytoplankton and Coloured Dissolved Organic Matter and the interactive effects on the inhibition of photosynthesis and the production of phytoplankton sunscreens.	United Kingdom	I-EF
VENTSULFURMICDIV	Biodiversity of microbial communities involved in sulphur cycling at a shallow water hydrothermal vent	Austria	I-EF
WAB-ART	Modelling of Wave Breaking at Artificial Coastal Reefs	Germany	I-EF
ZOOPALIS	Zooplankton OPAL and Iron Study (ZOOPALIS) - Investigating the effect of grazing on Si and Fe recycling	France	I-EF
<i>HOST-DRIVEN ACTIONS</i>			
AQUALABS	Advanced laboratory training courses in Aquaculture for early-stage researchers	Ireland	CaTC
ASSESSING MICROPHYTO	Assessing microphytobenthos structure in intertidal mudflats using visible - infrared remote sensing and pigment analysis by HLPC	France	ToK
AWARE: ECO-HEALTH	Raising awareness amongst (young) people on the importance fo research on aquatic ecosystems and pollution and the impact on food and health	Belgium	SSA
BIOCAPITAL	Cope with the Challenges and Opportunities of the 21st Century: Integrated Basic and Applied Training in a Success-oriented Bioprospecting	Germany	RTN
BIODEM	Biogeochemical and physical drivers of deep European margin ecosystems	France	RTN
BIOTRACS	Bio-transformation of trace elements in aquatic systems	United Kingdom	E-sT
DOCREG	Development of Oceanographic Research in Greece	Greece	SSA
ECO-IMAGINE	European Conferences and Forum for Integrated Coastal Management and Geo-Information Research	Italy	CaTC
ECOSUMMER	ECOsystème approach to SUSTainable Management of the Marine Environment and its living Resources	United Kingdom	E-sT
ESTEAM	Moving into the Genomics of Marine Biodiversity	France	E-sT
FAASIS	Fellowships in Antarctic Air-Sea-Ice Science	United Kingdom	E-sT
FISHACE	Fisheries-induced Adaptive Changes in Exploited Stocks	Austria	RTN
GYROSCOPE	GYROSCOPE: A multidisciplinary approach to host-shifting and invasive potential by gyroductylid parasites	United Kingdom	ToK
MARIE	Modelling and assimilation for rofi environments limits of predictability	Spain	ToK
MARMIC EST	Marie Curie Training Site for Marine Microbiology	Germany	E-sT

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
METAOCEANS	Elucidating the structure and functioning of marine ecosystems through synthesis and comparative analysis	Spain	E-sT
MOMARNET	Monitoring deep seafloor hydrothermal environments on the Mid-Atlantic Ridge	France	RTN
PARAQUAM	Parasite pathogens in new species of Mediterranean aquaculture: an experimental approach	Spain	ToK
PATHMEDA	Pathogens and parasites in Mediterranean aquaculture	Spain	ToK
RISICO	Risk assessment of surfactants in coastal environments	Belgium	E-sT
SEAMOCS	Applied stochastic models for ocean engineering, climate and safe transportation	Sweden	RTN
SEAPAID	Seagrass production and isotopic discrimination	Spain	ToK
TRAMWAYS	Transfer of knowledge in microbial signal transduction pathways and metagenomics	Ireland	ToK
WAVETRAIN	Research training network towards competitive ocean wave energy	Portugal	RTN

EXCELLENCE PROMOTION AND RECOGNITION

D3D-LEM	Dynamic 3D modelling and simulation for landscape and environmental management.	United Kingdom	Chairs
PBL-TMRES	Planetary Boundary Layers - Theory, Modelling and Role in Earth Systems	Finland	Chairs

RETURN AND RE-INTEGRATION GRANTS

CLONMACMORPH	Morphological responses and interactions of clonal marine macrophytes with their nutrient environment	Portugal	ER-iG
CLOWNFISH EVOLUTION	Molecular phylogeny and evolution of specialization in anemone fishes and in their host sea anemones	Italy	ER-iG
COMEHERE	Combining Methodologies to Assess Water Pollutant Hazard and Environmental Risk in South Europe	Italy	IR-iG
FISH CONDITION	Effects of environmental and habitat characteristics on condition and reproduction of exploited marine fish populations	Spain	ER-iG
GEN-IRON-FISH	Effects of consuming fish on iron bioavailability in women with the G277S transferrin gene mutation	Spain	ER-iG
GnRH SYSTEMS IN COD	Characterization of GnRH systems in Atlantic cod: cloning, brain distribution, and mechanisms of action.	Norway	ER-iG
ISEMAR	Application of Integrated Sea-Bottom Exploration by Hydro-acoustic Methods: Forecast of Marine Aggregates Resources in Lithuania	Lithuania	ER-iG
MAPHOPE	Magnetic proxies for evaluation of "hot spots" industrial pollution in East Bulgaria	Bulgaria	ER-iG

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
MARIBA	Understanding seabird distribution patterns to design marine Important Bird Areas (IBAs)	Spain	ER-iG
PEIPSIREM	Satellite based remote sensing of aquatic environment in Estonia by the example of Lake Peipsi	Estonia	ER-iG
PHOCOENA2004	Evaluation of the immunotoxicity of mercury, zinc, polychlorobiphenyls and methyl sulfonyl polychlorinated biphenyls on cytokine and proteome expression in marine mammals	Belgium	ER-iG
PHYTODEATH	Effect of ultraviolet radiation on programmed cell death in phytoplankton: impact on biomass cycling and biodiversity	Spain	ER-iG
PIMAUABI	Pathogens and immune response of aquacultured bivalve molluscs	Spain	ER-iG
PROCES	Production and Removal of dissolved Organic matter in Contrasting oceanic EnvironmentS	Spain	ER-iG
RSFLUX	Monitoring suspended matter fluxes in coastal waters using ocean color remote sensing and transport modelling. An integrated approach.	France	ER-iG
SCALERECPRO	Scale-dependent recruitment processes in soft-sediments and its environmental controls	Finland	ER-iG
SIMPLIC	Mathematical Modeling of Marine Ecosystems in a sustainable development perspective: model development, parameterization and simplification using data assimilation	Belgium	ER-iG
STRATMIX:CPCAUFLFIELD	Rigorous bounds on mixing in stratified shear flows: A route to improved parameterizations.	United Kingdom	IR-iG
X-FLOOD	Advancing Quantitative Precipitation Estimation and Short-to-Medium Range Forecasting on the Basis of Remotely Sensed Data Assimilation	Greece	IR-iG

Information Society Technologies

ELOGMAR-M	Web-based and mobile solutions for collaborative work environment with logistics and maritime applications	Germany	CA
EURITRACK	European illicit trafficking countermeasures kit	France	STREP
GREX	Coordination and control of cooperating heterogeneous unmanned systems in un-certain environments	Germany	STREP
WIN	Wide information network for risk management IP	France	IP

Joint Research Centre Activities

ECOMAR	Monitoring and assessment of the ecological quality of inland and marine waters		Unknown
FISHREG	Monitoring compliance with EU fisheries regulations		Unknown
MIDIV	Monitoring illicit discharges from vessel		Unknown

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
MONMAR	Monitoring the variability of marine ecosystems		Unknown
WATCON	Impacts of contaminants in EU inland, coastal and drinking waters		Unknown
WATERCRM	Support of standardisation and harmonisation of water pollution monitoring		Unknown
WATER-INFO	Integrated water quality information system		Unknown

Life sciences, genomics and biotechnology for health

DIATOMICS	Understanding Diatom Biology by Functional Genomics Approaches	Italy	STREP
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Nanosciences, nanotechnologies, materials & new production technologies

AMBIO	Advanced nanostructured surfaces for the control of biofouling	United Kingdom	IP
CROCELLS	Climbing Robot for Fast and Flexible Manufacture of Large Scale Structures	United Kingdom	STREP
OPCOM	Development of Ultrasonic Guided Wave Inspection Technology for the Condition Monitoring of Offshore Structures	United Kingdom	STREP

New and Emerging Science and Technologies (NEST)

METAFUNCTIONS	Environmental and Meta-Genomics - a bioinformatic system to detect and assign functions to habitat specific gene patterns	Germany	STREP
PHARMAPOX	Chemistry, pharmacology and bioactivity of a novel apoptotic compound - a sex regulator in decapod crustaceans with promising environmental and medical applications	Italy	STREP

Research and Innovation

EUROMIND	Creating an innovative EUROpean Open Maritime INDustry through facilitating the integration of standards into new business practices and services	Netherlands	CA
FISH	Facilitating innovation for sustainable fisheries and marine resources	Norway	Unknown
ICEMAKER	Development of a low cost, low power consumption system for manufacturing ozonised fluid ice for fishing, via an absorption system	Spain	SMEs-CopRC

Research for Policy Support

AFISA	Automated Fish Ageing	France	STREP
AFRAME	A Framework for Fleet and Area Based Fisheries Management	Spain	STREP
AQUABREEDING	Towards enhanced and sustainable use of genetics and breeding in the European aquaculture industry	Italy	SSA

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
AQUAFIRST	Combined genetic and functional genomic approaches for stress and disease resistance marker-assisted selection in fish and shellfish	France	STREP
AQUAFUNC	Integrated knowledge on functional genomics in sustainable aquaculture	Sweden	SSA
AQUAGENOME	Genomic in fish and shellfish: From research to aquaculture	France	CA
BECAUSE	Critical interactions between species and their implications for a precautionary fisheries management in a variable environment – a modelling approach	Germany	STREP
BENEFISH	Evaluation and Modelling of Benefits and Costs of Fish Welfare Interventions in European Aquaculture	Germany	STREP
CAFE	Capacity, F and Effort	United Kingdom	STREP
CEDER	Catch, Effort and Discard Estimates in Real time	Belgium	STREP
CEVIS	Comparative Evaluations of Innovative Solutions in European fisheries management	Denmark	STREP
COBECOS	Costs and Benefits of Control Strategies	Italy	STREP
COMMIT	Creation of multi-annual management plans for commitment	United Kingdom	STIP
DEGREE	Development of fishing gears with reduced effects on the environment	Netherlands	STREP
DIPNET	Disease interactions and pathogen exchange network	France	CA
ECASA	Ecosystem approach for sustainable aquaculture	United Kingdom	STREP
EFI+	Improvement and spatial extension of the European Fish Index	Austria	STREP
EFIMAS	Operational evaluation tools for fisheries management options	Denmark	STREP
EMPAFISH	European marine protected areas as tools for fisheries management and conservation	Spain	STREP
ENVIEFH	Environmental Approach to Essential Fish Habitat Designation	Greece	SSA
FASTFISH	On farm assessment of stress level in fish	Norway	STREP
FEUFAR	The Future of European Fisheries and Aquaculture Research	Netherlands	SSA
FinE	Fisheries-induced Evolution	Austria	STREP
FISBOAT	Fisheries independent survey based operational assessment tools	France	STREP

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
GENIMPACT	Evaluation of genetic impact of aquaculture activities on native populations - a European network	Norway	CA
HOP!	Macro-economic impact of high oil price	Italy	STREP
IBEFish	Interaction between Environment and Fisheries - a Challenge to Management	Finland	SSA
ICES-FISHMAP	Update and revision of the ICES Atlas of North Sea fishes: a web-based application	Netherlands	SSA
IMAGE	Indicators for fisheries MANaGement in Europe	Netherlands	STREP
IMPACT FISH	Impact assessment of the FP4 and FP5 research	Belgium	SSA
IMPASSE	Environmental impacts of invasive alien species in aquaculture	United Kingdom	CA
IN EX FISH	Incorporating extrinsic drivers into fisheries management	United Kingdom	CA
INDECO	Development of indicators of environmental performance of the common fisheries policy	United Kingdom	STREP
ISTAM	Improve Scientific and Technical Advice for fisheries Management	France	CA
NECESSITY	Nephrops and cetacean species selection information and technology	Netherlands	STREP
OATP	Evaluation of the promotion of Offshore Aquaculture Through a Technology Platform	Ireland	SSA
PANDA	Permanent network to strengthen expertise on infectious diseases of aquaculture species and scientific advice to EU policy	United Kingdom	CA
POORFISH	Probabilistic assessment, management and advice model for fishery management in the case of poor data availability	United Kingdom	STREP
PROFET POLICY	Fish Policy Flow	Belgium	SSA
PRONE	Precautionary risk methodology in fisheries	Finland	STREP
PROTECT	Marine protected areas as a tool for ecosystem conservation and fisheries management	Denmark	STREP
RECLAIM	REsolving CLimAtic IMPacts on fish stocks	Netherlands	SSA
REPROFISH	Integrating basic and applied knowledge on finfish reproduction	France	SSA
SAMI	Synthesis of Aquaculture and Marine Ecosystem Interactions	Denmark	SSA
SARDONE	Improving assessment and management of small pelagic species in the Mediterranean	Italy	STREP
SEACASE	Sustainable extensive and semi-intensive coastal aquaculture in Southern Europe	Portugal	STREP

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
SHEEL	Secure and harmonised European electronic logbook	Portugal	STREP
SLIME	Restoration of the European eel population; pilot studies for a scientific framework in support of sustainable management	Netherlands	SSA
UNCOVER	Understanding the Mechanisms of Stock Recovery	Germany	STREP
VIROBATHE	Methods for the concentration and detection of adenoviruses and noroviruses in European bathing waters with reference to the revision of the Bathing Water Directive 76/160/EEC	United Kingdom	STREP
WEALTH	Welfare and health in sustainable aquaculture	Norway	STREP
WOPER	Workshop for the analysis of the impact of perkinsosis to the European Shellfish Industry	Spain	SSA

Research Infrastructures

Black Sea SCENE	Black Sea Scientific Environmental Information Network	Netherlands	CA
CeMaCE	Centre for Marine Chemical Ecology	Sweden	SSA
DesignACT	Designing the European Aquaculture Centre of Technology	Norway	Design study
HYDRALAB-III	Integrated Infrastructure Initiative HYDRALAB III	Netherlands	III
KM3NET	Design Study for a Deep Sea Facility in the Mediterranean for Neutrino Astronomy and Associated Sciences	Germany	Design study
METRI-2	Marine environment tests and research infrastructure - 2	France	SSA
PLANKTON-NET	An open-access framework for developing and supporting distributed knowledge centres for taxonomic data - a pilot study targeting EU phytoplankton	Germany	SSAs
SALVADORE	Seismic analysis of the lithosphere via advanced processing techniques and access to deep ocean recorders during exploration	Germany	SSA
SEADATANET	Pan-European infrastructure for Ocean & Marine Data Management	France	III

Science and Society

SAFMAMS	Scientific Advice for Fisheries Management on Multiple Scales	Denmark	SSA
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Specific International Co-operation Activities

AqASEM	ASEM aquaculture platform	Belgium	SSA
BOMOSA	Integrating BOMOSA cage fish farming systems in reservoirs, ponds and temporary water bodies in Eastern Africa	Austria	STREP

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
CENSOR	Climate variability and El Niño Southern oscillation: implications for natural coastal resources and management	Germany	STREP
CLEAN BLACK SEA	Clean Black Sea Working Group	Bulgaria	SSA
COMSHELFRISKS	Promoting a combined approach to investigating risks of earthquakes, landslides, and tsunamis in coastal, shelf, and continental slope areas	Russia	SSA
ECOMANAGE	Integrated ecological coastal zone management system	Portugal	STREP
ECOMON	The current state of the Russian Marine Ecosystem Monitoring for the White Sea and its relevance to the EU Directive on Water Policy and UN Agenda 21	Russia	SSA
ECOST	Ecosystems, Societies, Consilience, Precautionary principle: Development of an assessment method of the societal cost for best fishing practices and efficient public policies	United Kingdom	STREP
EMCOL	Eastern Mediterranean Centre for Oceanography and Limnology	Turkey	SSA
ENIMOT	Workshop "Environmental impact of oil transportation"	Azerbaijan	SSA
GMS APPLICATION	Generic Model Simulations of spreading of marine pollutants in the Arctic environment during the 21st Century	Russia	SSA
INCOFISH	Integrating multiple demands on Coastal Zones with emphasis on aquatic ecosystems and fisheries	Germany	STREP
IRRISEASOIL	A Cheap and Easy-to-Handle Desalination Approach for Crop Irrigation under Mediterranean Conditions	United Kingdom	STREP
MANGROVE	Mangrove ecosystems, communities and conflict: developing knowledge-based approaches to reconcile multiple demands	United Kingdom	STREP
MEDITATE	Mediterranean Development of Innovative Technologies for integrated water management	France	STREP
MERCW	Modelling of Ecological Risks related to Sea-dumped Chemical Weapons	Finland	STREP
MUGIL	Main Uses of the Grey mullet as Indicator of Littoral environmental changes	France	SSA
PASARELAS	Discovery Modelling Mediation Deliberation: Interface Tools for Multi-stakeholder Knowledge Partnerships for the Sustainable Management of Marine Resources and Coastal Zones	France	SSA
PHILMINAQ	Mitigating impact from aquaculture in the Philippine	Norway	SSA
PUMPSEA	Peri-urban mangroves forests as filters and potential phycoremediators of domestic sewage in East Africa	Portugal	STREP
REEFRES	Developing ubiquitous restoration practices for Indo-Pacific reefs	Israel	STREP
SPEAR	Sustainable options for people, catchment and aquatic resources	Portugal	STREP
TBTIMPACTS	Assessing Impacts of TBT on Multiple Coastal Uses	Italy	STREP

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
TRANSMAP	Transboundary networks of marine protected areas for integrated conservation and sustainable development: biophysical, socioeconomic and governance assessment in East Africa	Portugal	STREP

Specific Research Activities for Small and Medium-sized Enterprises (SMEs)

3D MULTICAM	Accurate and instantaneous subsea 3D measurement by use of laser projection and parallelized close range photogrammetry	Norway	CopRC
ALFA	Development of an automated innovative system for continuous live feed production in aquaculture hatchery units	Norway	CopRC
ALGADEC	Development of a rRNA-Biosensor for the Detection of Toxic Algae	Germany	CopRC
AQUADEGAS	Development of cost effective, reliable, robust, flexible, compact and efficient degassing and aeration method for intensive aquaculture.	Norway	CopRC
AQUAETREAT	Improvement and innovation of aquaculture effluent treatment technology	Italy	CollRP
BLUESEED	Technology development for a reliable supply of high-quality seed in blue mussel farming	Netherlands	CopRC
CERTOL	Non-toxic antifouling for leisure boats	Sweden	CopRC
CHAINTEST	Autonomous Robotic System for the Inspection of Mooring Chains that Thether Offshore Oil Gas Structures to the Ocean Floor.	United Kingdom	CopRC
CODLIGHT TECH	Light Technology for Photoperiod Regulation in Cod Mariculture	Iceland	CopRC
COMPETUS	Genetic improvement of farmed sea bass, Dicentrarchus labrax: Strain testing and response to selection	France	CopRC
CORALZOO	The development of an SME-friendly European breeding program for hard corals	Netherlands	CollRP
CRAB	Collective Research on Aquaculture Biofouling	Netherlands	CollRP
CRUSTASEA	Development of best practice, grading & transportation technology in the crustacean fishery sector	Norway	CollRP
DESOL	Low cost low energy technology to desalinate water into potable water	Germany	CopRC
DOLFIN	Development of innovative plastic structures for Aquiculture using a new composite with crop waste as reinforcing filler	Spain	CopRC
ENVIROPHYTE	Improvement of the cost effectiveness of marine land based aquaculture facilities through use of constructed wetlands with salicornia as na environmentally friendly biofilter and a valuable by product	Israel	CopRC
ESCAPEPROOFNET	Escapees in European Aquaculture Development of an Escape-proof Net Especially for Cod, Bass and Bream Fish Farming	Norway	CopRC
FASTER	Fostering alliances for sustainable transport in European research	Belgium	SSA
FINE FISH	Reduction of malformations in farmed fish species	Belgium	CollRP

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
FISHTANKRECIRC	Electro-coagulation technique of water treatment	Norway	CopRC
FLEXIRISERTEST	Development of novel underwater digital radiography techniques, sensors and systems for the volumetric examination of offshore subsea flexible risers and flow lines.	United Kingdom	CopRC
FPSO-INSPECT	Non-intrusive in-service inspection robotic system for condition monitoring of welds inside floating production storage and offloading (FPSO) vessels	United Kingdom	CopRC
FRESHLABEL	Integrated Approach to enable Traceability of the Cooling Chain of Fresh and Frozen Meat and Fish Products by means of Taylor-made Time/ Temperature Indicators	Germany	HRA
GRRAS	Towards Elimination of Growth Retardation in Marine Recirculating Aquaculture Systems for Turbot	Netherlands	CopRC
HULL INSPECTOR	Development of an autonomous mobile inspection vehicle for detecting structural defects in ship's hulls	United Kingdom	CopRC
IntelFishTank	Development of an intelligent fish tank for cost effective aquaculture through control of water quality in each different fish tank	Norway	CopRC
JODIS	Laser Joining Technologies for Dissimilar Material Combinations	Germany	CopRC
KEYZONES	To investigate sustainable biological carrying capacities of key European coastal zones	United Kingdom	CopRC
LRUCM	Long Range Ultrasonic Condition Monitoring	United Kingdom	CoIRP
LUCIOPERCIMPROVE	Improving egg and larval quality in pikeperch by broodstock management, husbandry and nutrition and sex control	Belgium	CopRC
MAPO	Enhancing Research and Development Projects to Find Solutions to Struggle against various Marine Pollutions	France	SSA
MusselHarvest	Development of a cost effective technique for mussel harvesting combined with product control and retubing	Norway	Unknown
NETWASH	In-situ Net Cleaning System in Aquaculture	Norway	CopRC
OCEANSAVER	Dramatically reducing spreading of invasive, non-native exotic species into new ecosystems through n efficient and high volume capacity Ballast Water Cleaning System	Norway	CopRC
OPTIPORT	The development of a new more efficient and safer portable traffic optimisation system for EU ports	Denmark	CopRC
PIPESCAN	Development of inspection systems for the inspection of metal pipelines buried underground (PIPESCAN)	United Kingdom	
RACEWAYS	A hyperintensive fish farming concept for lasting competitiveness and superior production	Norway	CopRC
RISERTEST	Development of a Guided Long Range Ultrasonic Inspection System for the examination of offshore subsea Risers, Steel Catenary Risers (SCRs) and Flowlines	United Kingdom	CopRC
SAFE-RAY	Development of digital radiography techniques, sensors and systems to replace film radiography for defect detection in safety critical welds and castings	United Kingdom	CopRC

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
SAMANTHA	Safety Intelligent Fisheries Product Traceability Management Throughout the Supply Chain	Spain	CopRC
SPIES-DETOX	Active biological monitoring and removal of toxins in aquaculture ecosystems and shellfish - including the development of a Solid-Phase In-situ Ecosystem Sampler and detoxification of shellfish	United Kingdom	CollRP
SPIINes 2	Sea urchin Production in Integrated systems, their Nutrition and roe Enhancement	United Kingdom	CopRC
SPILLREC	Enhanced Design and Manufacturing of Waterborne Spills Recovery Systems	Spain	CopRC
SPONGES	Sustainable production, Physiology, Oceanography, Natural products, Genetics and Economics of Sponges	Germany	CopRC
STUNFISHFIRST	Development of prototype equipment for humane slaughter of farmed fish in industry	Netherlands	CopRC
SUBFISHCAGE	Development of a cost effective submersible fish cage system	Norway	CopRC
SWIRL-JET STUDY	Commercial exploitation or scientific curiosity in swirling fluid jets	United Kingdom	CopRC
TURPRO	Biological optimisation and development of processing methods for turbot farming	Norway	CopRC
WAVEGEN	Wave Pump Submersible Power Generator	Italy	CopRC

Sustainable development, Global Change and Ecosystems

GLOBAL CHANGE AND ECOSYSTEMS

3HAZ-CORINTH	Earthquakes, tsunamis and landslides in the Corinth rift, Greece A multidisciplinary approach for measuring, modelling, and predicting their triggering mode and their effects.	France	STREP
ALERT	Sustainable Management of Water Resources by Automated Real-Time Monitoring	United Kingdom	STREP
AMMA	African Monsoon Multidisciplinary Analysis	France	IP
AQUAS	Water Quality and Sustainable Aquaculture: Links and Implications	Spain	SSA
ASCABOS	A Supporting Programme for Capacity Building in the Black Sea Region towards Operational Status of Oceanographic Services	Bulgaria	SSA
BASIN	Resolving the impact of climatic processes on ecosystems of the North Atlantic basin and shelf seas: Integrating and advancing observation, monitoring, and prediction	Germany	SSA
CARBOOCEAN	Marine carbon sources and sinks assessment	Norway	IP
CIRCE	Climate Change and Impact Research: the Mediterranean Environment	Italy	IP
COBO	Integrating new technologies for the study of benthic ecosystem response to human activity: towards a Coastal Ocean Benthic Observatory	United Kingdom	STREP

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
CONSCIENCE	Concepts and Science for Coastal Erosion Management	Netherlands	STREP
DA.G.OT	European reference framework on dangerous good transport	Italy	SSA
DAISIE	Delivering alien invasive species inventories for Europe	United Kingdom	STREP
DAMOCLES	Developing Artic Modelling and Observing Capabilities for Long-term Environmental Studies	France	IP
DAMOCLES TTC	Developing Artic Modelling and Observing Capabilities for Long-term Environmental Studies - Extension	France	IP
DYNAMITE	Understanding the Dynamics of the Coupled Climate System	Norway	STREP
ECODIS	Dynamic sensing of pollution disasters and predictive modeling of their ecological impact	Netherlands	STREP
ECOOP	European coastal-shelf sea operational observing and forecasting system	Denmark	IP
EDIT	The European Distributed Institute of Taxonomy project	France	NoE
ELME	European lifestyles and marine ecosystems	United Kingdom	STREP
ENCORA	European network for coastal research	Netherlands	CA
ENCORA TTC	European network for coastal research - Extension	Netherlands	CA
ENSEMBLES	ENSEMBLE based Predictions of Climate Change and their Impacts	United Kingdom	IP
EPIBATHE	Assessment of human health effects caused by bathing waters	United Kingdom	STREP
EPICA-MIS	New Paleoconstructions from Antarctic Ice and Marine Records	France	STREP
ERAPHARM	Environmental risk assessment of pharmaceuticals	Germany	STREP
ESONET	European Seas Observatory Network	France	IP
ESONIM	European Seafloor Observatory Network Implementation	Ireland	SSA
ESTTAL	Expressed Sequence Tag (EST) Analysis of Toxic Algae	Germany	STREP
EUR-OCEANS	European network of excellence for ocean ecosystems analysis	France	NoE
EXOCET/D	Extreme ecosystems studies in the deep ocean: technological developments	France	STREP
FACEIT	Fast advanced cellular and ecosystems information technologies	Switzerland	STREP

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
FISH & CHIPS	Towards DNA chip technology as a standard analytical tool for the identification of marine organisms in biodiversity and ecosystem science	Germany	STREP
FLOODsite	Integrated flood risk analysis and management methodologies	United Kingdom	IP
GRAND	Grand Global Ocean Observing System (GOOS) regional alliances (GRASS) network development	Malta	SSA
HABIT	Harmful algal bloom species in thin layers	Ireland	STREP
HERMES	Hotspot ecosystem research on the margins of European seas	United Kingdom	IP
HERMES TTC	Hotspot Ecosystems Research on the Margins of European Seas - Extension	United Kingdom	IP
IASON	International Action for Sustainability of the Mediterranean and Black Sea Environment	Greece	SSA
IPY-CARE	Climate of the Arctic and its Role for Europe (CARE) - a European component of the International Polar Year	Norway	SSA
MAP	Secondary Marine Aerosol Production from Natural Sources	Ireland	STREP
MARBEF	Marine biodiversity and ecosystem functioning	Netherlands	NoE
MARINE GENOMICS EUROPE	Implementation of high-throughput genomic approaches to investigate the functioning of marine ecosystems and the biology of marine organisms	France	NoE
MEDESOL	Seawater desalination by innovative solar-powered membrane-distillation system	Spain	STREP
MEDINA	MEbrane-based Desalination: an INtegrated Approach	Italy	STREP
METHAPU	Validation of renewable Methanol based Auxiliary Power System for commercial Vessels	Finland	STREP
MILLENNIUM	European climate of the last Millennium	United Kingdom	IP
MODELKEY	Models for assessing and forecasting the impact of environmental key pollutants on marine and freshwater ecosystems and biodiversity	Germany	IP
NEAREST	Integrated Observations from Near Shore Sources of Tsunamis: Towards an Early Warning System	Italy	STREP
OOMPH	Organics over the Ocean Modifying Particles in both Hemispheres	Germany	STREP
PROBIOPRISE	Creating a European platform for SMEs and other stakeholders to develop a research programme for probiodiversity business	United Kingdom	SSA
QUANTIFY	Quantifying the Climate Impact of Global and European Transport Systems	Germany	IP
QUANTIFY TTC	Quantify Extension	Germany	IP
RIOS	Reducing the impact of oil spills	Sweden	SSA

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
SEAHELLARC	Seismic and tsunami risk assessment and mitigation scenarios in the western Hellenic ARC	Greece	STREP
Search for DAMOCLES	Study for Environmental Arctic Change - Developing Arctic Modelling and Observing Capabilities for Long-term Environmental Studies	France	SSA
SEED	Life history transformations among harmful algal blooms species and the environmental and physiological factors that regulate them	Spain	STREP
SEPRISE	Sustained, Efficient Production of Required Information & Services within Europe	Sweden	SSA
SESAME	Southern European Seas: Assessing and Modelling Ecosystem Changes	Greece	IP
SIMORC	System of industry metocean data for the offshore and research communities	Netherlands	SSA
SPICOSA	Science and Policy for Coastal System Assessment	France	IP
TENATSO	Tropical Eastern North Atlantic Time-Series Observatory	Germany	SSA
THRESHOLDS	Thresholds of environmental sustainability	Spain	IP
TRANSFER	Tsunami Risk and Strategies For the European Region	Italy	STREP
YEOS	Yellow Sea observation, forecasting and information System	Denmark	SSA
SUSTAINABLE ENERGY			
Alda	Demonstration plant of a tunnelled wave energy converter	Denmark	STREP
Aquabuoy	Aquabuoy demonstration offshore wave energy plant	United Kingdom	STREP
AWS-MKII	Deployment, monitoring and evaluation of a prototype advanced wave energy device (AWS)	United Kingdom	STREP
BEATRICE WINDENERGY	Beatrice Offshore Deepwater Wind Farm Project	United Kingdom	IP
CA-OE	Co-ordinated action on ocean energy	Denmark	CA
DOWNVIND	Distant offshore windfarms with no visual impact in deepwater	United Kingdom	IP
EU-OEA	European ocean energy association	United Kingdom	SSA
LOWEC	Low offshore wind energy cost	Sweden	IP
NEREIDA MOWC	Nereida MOWC: OWC integration in the new mutriku breakwater	Spain	STREP

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
POWWOW	Prediction Of Waves, Wakes and Offshore Wind	Denmark	CA
SEEWEC	Sustainable Economically Efficient Wave Energy Converter	Belgium	STREP
STANDICE	Standardization of Ice Forces on Offshore Structures Design	Germany	SSA
WAVE DRAGON MW	Development and validation of technical and economic feasibility of a multi MW Wave Dragon offshore wave energy converter	Denmark	STREP
WAVESSG	Full-scale demonstration of robust and high-efficiency wave energy converter	Norway	STREP
WaveStar	High-efficient, low-weight, pile-supported 500-kW wave energy converter	Denmark	STREP
<i>SUSTAINABLE SURFACE TRANSPORT</i>			
ACMARE/WATERBORNE	Co-ordination action to implement an advisory council for maritime transport research in Europe	Belgium	CA
ADOPT	Advanced decision support system for ship design, operation and training	Germany	STREP
ALERT	Assessment of life-cycle effect of repairs on tankers	United Kingdom	CA
BaWaPla	Ballast Water Treatment Plant	Germany	STREP
CAESAR	CA for the European Strategic Agenda of Research on intermodalism and logistics	Italy	CA
CALM II	Advanced Noise Reduction Systems	Austria	CA
CAPOEIRA	CA of Ports for integration Of Efficient Innovations and development of adequate Research, development and innovation Activities	Spain	CA
CAREMAR	Coordinated academic rtd and education supporting innovation in marine industries	United Kingdom	CA
CAS	Cost effective inspection and structural maintenance for ship safety and environmental protection throughout its life cycle	France	STREP
CENTRAL LOCO	Central European Network for Logistics Competence	Poland	SSA
CHINOS	Container Handling in Intermodal Nodes - Optimal and Secure	Germany	STREP
CLEANMOULD	Boat Hulls with Enhanced Performance	United Kingdom	STREP
CREATE3S	Production to improve total efficiency of new generation short sea shipping	Netherlands	STREP
CREATING	Concepts to reduce environmental impact and attain optimal transport performance by inland navigation	Netherlands	STREP
CRONET-DAYS	Promoting and facilitating ERA-networking between European Contract Research Organisations (C.R.O)	France	SSA

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
DE-LIGHT Transport	Developing lightweight modules for transport systems featuring efficient production and lifecycle benefits at structural and functional integrity using risk based design	Germany	STREP
DIFIS	Double inverted funnel for intervention on ship wrecks	Netherlands	STREP
DSS-DC	Decision support system for ships in degraded condition	Norway	STREP
ECODOCK	Environmentally friendly coatings for shipbuilding and ships in operation	Germany	STREP
EFFORTS	EFFective Operation in poRTS	Italy	IP
EMDM	European maritime data management	France	STREP
ENCOMAR-TRANSPORT	Enhanced co-operation between EU member states and associated candidate states in maritime research on transport	Germany	SSA
EU-MOP	Elimination units for marine oil pollution	Greece	STREP
EUROMAR-BRIDGES	Building Bridges Between EU Member and Candidate States in Maritime Research on Transport Within the Frames of European Research Area	Poland	SSA
FELICITAS	Fuel cell power trains and clustering in heavy-duty transports	Germany	IP
FLAGSHIP	European Framework for Safe, Efficient and Environmentally-Friendly Ship Operations	Belgium	IP
FREIGHTWISE	Management framework for intelligent intermodal transport	United Kingdom	IP
GIFT	Gas import floating terminal	France	STREP
HANDLING WAVES	Decision Support System for Ship Operation in Rough Weather	Italy	STREP
HERCULES	High efficiency engine R&D on combustion with ultra low emissions for ships	Germany	IP
HISMAR	Hull identification system for marine autonomous robotics	United Kingdom	STREP
HTA	An alliance to enhance the maritime testing infrastructure in the EU	Netherlands	NoE
ICOMOB	Icebreaker cooperation on the motorway of the Baltic Sea	Finland	SSA
IMPROVE	Design of Improved and Competitive Products Using an Integrated Decision Support Systems for Ship Production and Operation	Belgium	STREP
INMARE	Technologies and Methodologies for Safe, Environmental-friendly and Efficient Shipping Operations of the future	Italy	CA
INTERMODE-TRANS	Specific Support Action for pan-European stakeholders and users sustaining integrated pilot technologies for increasing the efficiency of intermodal transport	France	SSA

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
INTERSHIP	Integrated collaborative design and production of cruise vessels, passenger ships and ropax	Norway	IP
LOGBASED	Logistics-based design	Norway	STREP
MARNIS	Maritime Navigation and Information Services	Netherlands	IP
MARSTRUCT	Network of excellence in marine structures	Portugal	NoE
MC-WAP	Molten Carbonate Fuel Cells	Italy	IP
MOSES	Motorway of the sea European style	Norway	IP
MTCP	Maritime transport co-ordination platform	United Kingdom	CA
NEW-H-SHIP	Assimilation of Fuel Cells in maritime applications	Iceland	SSA
NG²SHIP I/F	New Generation Natural Gas Ship Interfaces	France	STREP
OFIENGINE	Development of the New Thermal Spraying Equipment and Technology for Production of Components for Marine Transport Engines	Spain	STREP
OSH	Oil Sea Harvester	France	STREP
POP&C	Pollution prevention and control - safe transportation of hazardous goods by tankers	Norway	STREP
POSSEIDON	Progressive Oil Sensor System for Extended Identification ON-Line	Germany	STREP
ROTIS II	Remotely operated tanker inspection system II	Italy	STREP
SAFE OFFLOAD	Safe offloading from floating LNG platforms	Netherlands	STREP
SAFECRAFTS	Safe abandoning of ships, improvement of current life saving appliances systems	Netherlands	STREP
SAFEDOR	Design, operation and regulation for safety	Germany	IP
SAFEICE	Increasing the safety of icebound shipping	Finland	STREP
SAFETOW	Strategic aid for escort and salvage tugs at work	United Kingdom	STREP
SAND.CORE	CA on Advanced Sandwich Structures in the Transportation Industry	Germany	CA
SECURCRANE	Design of an innovative system for the drive and control of port cranes for safe remote operation	Italy	STREP
SHIPDISMANTL	Cost effective and environmentally sound dismantling of obsolete vessels	Greece	STREP

ACRONYM	TITLE	COORDINATOR COUNTRY	FUNDING INSTRUMENT
SHIPMATES	Ship repair to maintain transport which is environmentally sustainable	United Kingdom	STREP
SMOOTH	Sustainable methods for optimal design and operation of ships with air-lubricated hulls	Netherlands	STREP
SPREEX	Spill response experience	Spain	CA
SUPERPROP	Superior life-time operation economy of ship propellers	Spain	STREP
VIRTUE	The virtual tank utility in Europe	Germany	IP
VISIONS	Visionary concepts for vessels and floating structures	Belgium	NoE

EurOcean Members:



EurOcean Cooperating Members:





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