



EUROMARINE
EUROPEAN
MARINE RESEARCH
NETWORK

Welcome and Introduction

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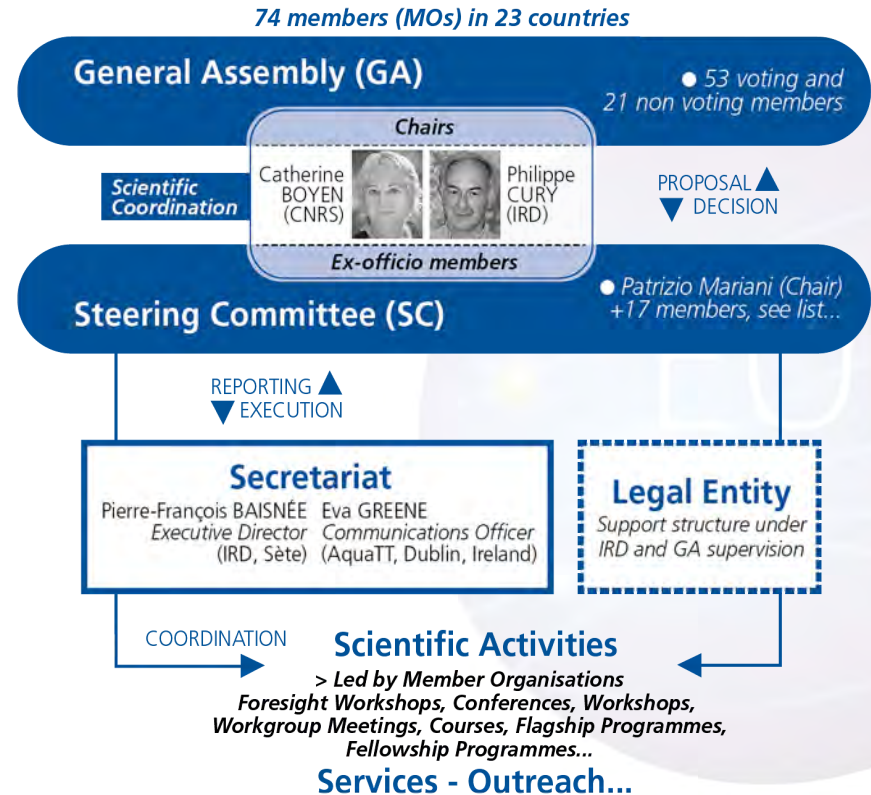
**EuroMarine 4th General Assembly Meeting
17-18 January 2018**

EuroMarine - a bottom-up approach to promote integrated and multidisciplinary methods to address global challenges in the marine environment

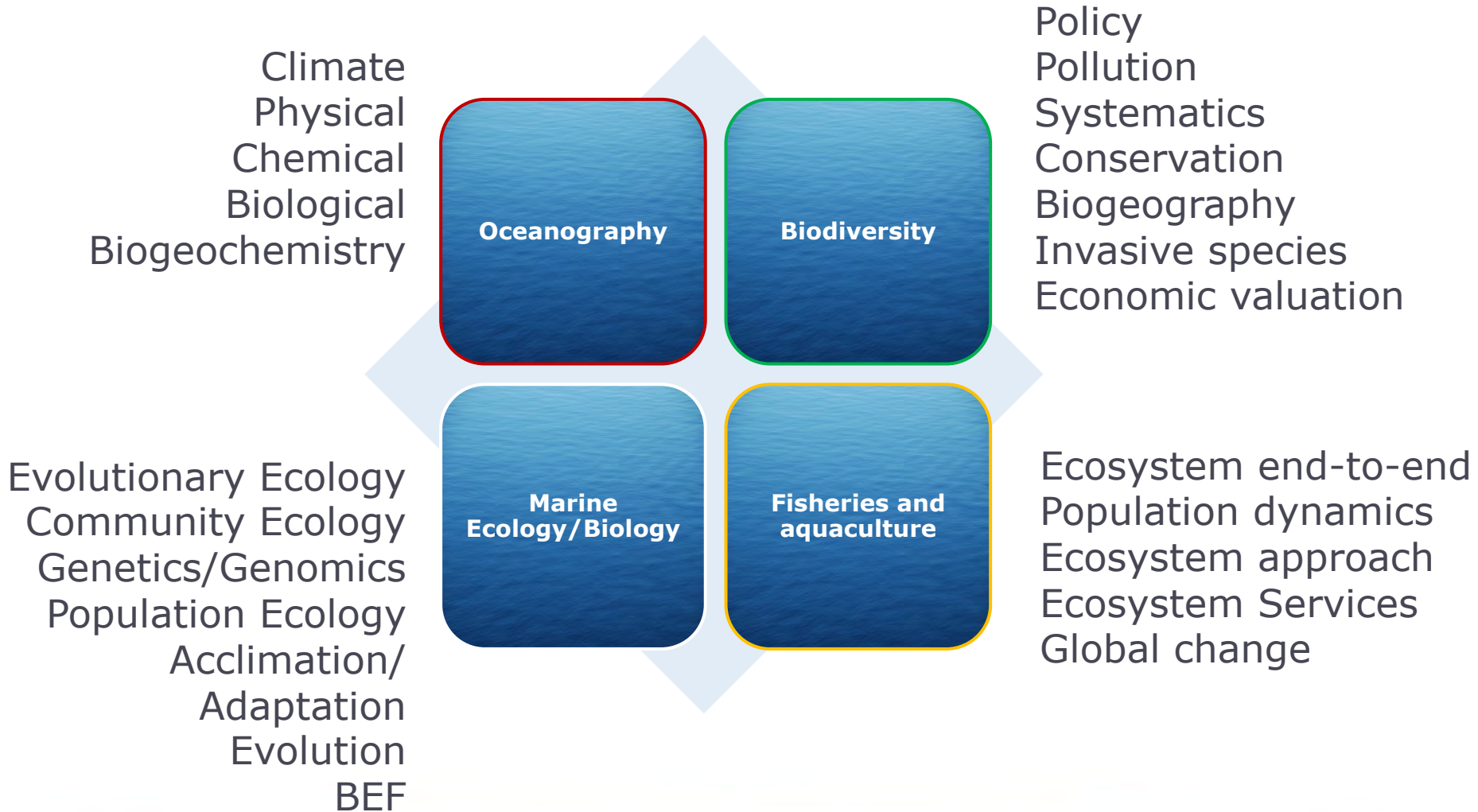
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| 2004 | Three FP6 Networks of Excellence and their follow-up structures | |
| 2011 | New network designed by FP7 preparatory project | |
| 2014 | Launch of the EuroMarine network 66 Organisations, 19 Countries, 19 Activities | |
| 2015 | First General Assembly (GA) meeting 68 Organisations, 22 Countries, 18 Activities | |
| 2016 | 2 nd GA Meeting, New website launched 73 Organisations, 23 Countries, 15 Activities | |
| 2017 | 3 rd GA Meeting, Blue Science for Blue Growth event, Era of Blue Enlightenment 74 Organisations, 23 Countries, 11 Activities, 23 Fellowships | |
| 2018 | 4 th GA Meeting: Porto, Portugal 17 – 19 January | |

What is EuroMarine?

- ▶ Self-sustained by membership fees
- ▶ Ethos
 - ▶ Bottom-up inclusiveness
 - ▶ Broad coverage of disciplines
 - ▶ Open to emerging fields
 - ▶ Multi-disciplinary teams
 - ▶ Current and emerging issues
 - ▶ Long-term
- ▶ Coordinated by CNRS & IRD
- ▶ Hosted by IRD

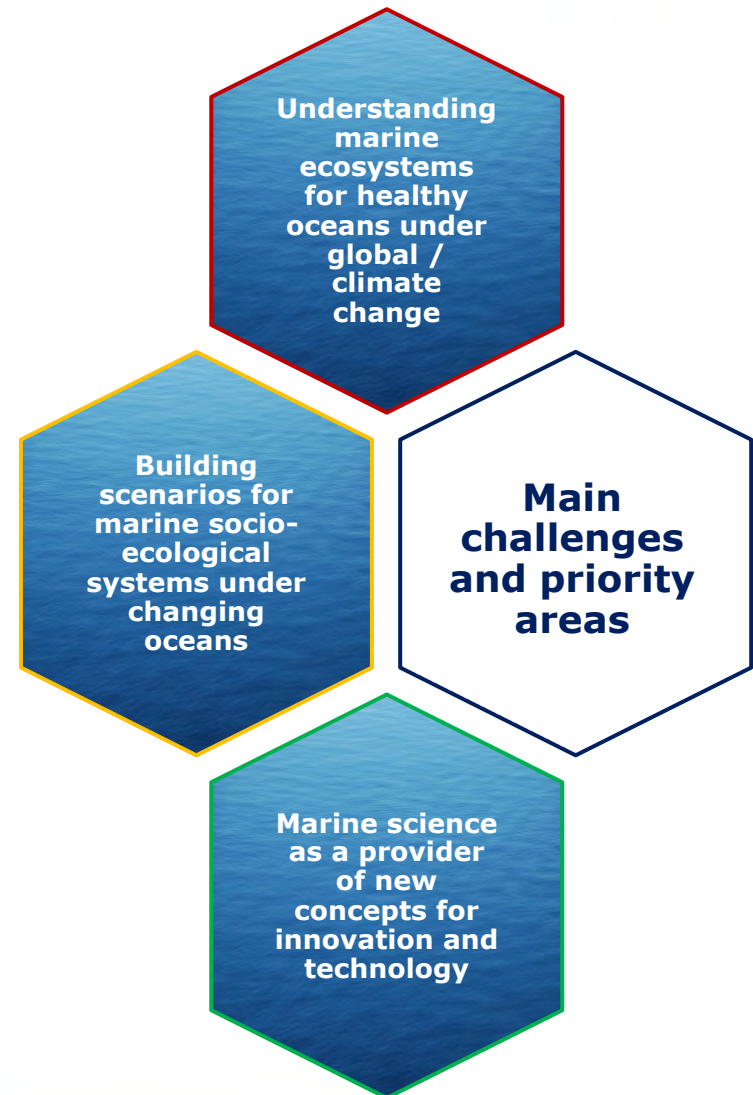


The network covers a wide range of disciplines



What is EuroMarine for?

- ▶ Identification and initial development of:
 - ▶ emerging scientific topics
 - ▶ associated methodologies
- ▶ Foster new services
 - ▶ networking, news
 - ▶ mobility, education training, scholarly services
 - ▶ data, infrastructure
- ▶ Advocacy
 - ▶ improve science-governance interface
 - ▶ provide latest scientific expertise
 - ▶ knowledge exchange and mobilization



Greater visibility, opportunities and tools for marine scientists and their organisations

- ✓ Broad coverage of disciplines
- ✓ Bottom-up inclusiveness
- ✓ Openness to emerging fields
- ✓ Ability to assemble multidisciplinary teams
- ✓ Forum for debate and discussion





2017 REPORTING

EuroMarine Funding Calls

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- ▶ **19** activities/50 proposals
- ▶ 193,000 €
- ▶ 53 Full MOs involved

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- ▶ **18** activities/34 proposals
- ▶ 110,200 €
- ▶ 56 Full MOs involved

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- ▶ **15** activities/28 proposals
- ▶ 99,880 €
- ▶ 46 Full MOs involved

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- ▶ **11** activities/16 proposals + 23 fellowships
- ▶ 89,873 €
- ▶ 41 Full MOs involved

35 Foresight workshops



12 Capacity building and training courses



10 Working group meetings



6 Workshops & other

Notable 2017 Events



We advocate for the inclusion of the ocean on all future political agendas through scientific and fact-based decision making



European Parliament Brussels 8 February 2017



Responsive and creative science to help tackle current and emerging issues and challenges in the marine environment



| | |
|--|--------------|
| EUROMARINE NETWORK | 13:15 |
| DAVID MURPHY An introduction to EuroMarine | |
| ISABEL SOUSA PINTO EuroMarine: science and support for decision making | |
| ACTIVITIES & OUTCOMES | 13:45 |
| MICHAEL STEINKE Chemical ecology of marine interactions, the chemical language that shapes future marine health | |
| FRÉDÉRIQUE LE ROUX Emergence of pathogens in natural <i>Vibrio</i> populations: ecology, evolution and pathogenesis | |
| CRISTINA PITA Developing a method for understanding coastal community vulnerability in Europe: Social transformation of small-scale fisheries | |
| JORGE ASSIS Marine forests for stakeholders | |
| DISCUSSION | 14:30 |

2017 Individual Fellowship Programme

- ▶ In 2017, instead of directly funding Capacity Building and Training activities, EuroMarine granted individual fellowships to let EuroMarine PhD students and scholars in their first post-doctoral position attend an advanced course of their choice
- ▶ Call for applications: 11 April - 2 May 2017
- ▶ Up to €500 to cover direct costs related to participating in a training event
 - ▶ 23 early career marine scientists
 - ▶ 16 PhD students and seven post-docs
 - ▶ 13 Member Organisations from nine countries
 - ▶ Total funding awarded: €10,067



EUROMARINE
INDIVIDUAL FELLOWSHIP
PROGRAMME 2017

EuroMarine considers supporting capacity building and training for young scientists to be a key priority of this marine science network. The participation of young scientists in valuable training programmes ensures the continued success of research and development in the European science community in the future.

23 EARLY CAREER SCIENTISTS
including 16 PhD students and seven Post-docs received funding to attend a training course of their choice in 2017

13 MEMBER ORGANISATIONS
from 9 countries are represented by these early career scientists, who attended courses in 10 different countries worldwide

UNDERTAKING TRAINING
in diverse courses: programming, data science, analysis, modelling, ecology, genomics, natural products, trait-based approaches, oceanic processes and more

ADVANCING MARINE SCIENCE
is the overall objective of the €10,068 programme funding budget for 2017; capacity building for young scientists is key to advancing Blue Skills and Blue Growth

for more updates see
WWW.EUROMARINETWORK.EU

2017 Call for Proposals Outcomes

- ▶ Two eligible categories of activities:
 - ▶ Foresight Workshops (horizon scanning, FWS) – max funding 7,500 €
 - ▶ EuroMarine Working Groups (WG) or Workshops (WS) for building EuroMarine services or for otherwise consolidating the EuroMarine network – max funding: 5,000 €
- ▶ Submitted projects: 12 FWS, 4 WG
- ▶ Overall funding: 79,359 € (**41%** of EuroMarine 2017 membership contributions; 46% with fellowships)



FWS (9/12)

- ▶ **FWS (9,475 €)** Modelling Ocean Plastic Litter in a Changing Climate: Challenges and Mitigations (MODELPlastics)
- ▶ **FWS (7,500 €)** Marine Holobionts - concepts and challenges (HoloMarine)
- ▶ **FWS (7,500 €)** Autonomous Systems for Integrated Marine and Maritime Observations in Coastal areas (ASIMO)
- ▶ **FWS (7,445 €)** Anticipating Potential Pathways and Routes for Innovation towards desirable SocioEconomic impacts (APPRISE)



1st international foresight workshop on

Marine Holobionts - concepts and challenges

Roscoff Biological Station (France) - March 27th and 28th, 2018

Background and aim: The idea of considering organisms in connection with the complex microbial communities they are associated with, *i.e.* as holobionts, is a rapidly emerging concept in all fields of life science. Many marine labs have started to incorporate this notion into their research. However, there are few examples of research groups that bridge the gap between (1) the functional interdependencies of a host and its symbionts, (2) the impact these interdependencies have on the functioning of an ecosystem, and (3) the role of evolution and ecosystem in shaping these interdependencies. This workshop aims at bringing together a small group of experts and motivated early stage researchers working on different holobiont systems (micro, macro, plant, animal, viruses), at different scales (molecular to ecosystem), using different approaches (e.g. modeling, chemistry, microfluidics to genomics) to discuss key questions, opportunities and challenges in further integrating the holobiont concept into marine sciences.

Program: The workshop will consist of three sessions each with three invited talks followed by group discussions.

Session 1: The holobiont concept and implications on research

Invited speakers: [Derek Skillings](#), [Marc-André Sélosse](#), [Monica Medina](#)

Session 2: Current approaches to study holobionts

Invited speakers: [Shinichi Sunagawa](#), [Tilmann Harder](#), [Claire Gachon](#)

Session 3: Challenges and opportunities for future research on marine holobionts

Invited speakers: [Thomas Bosch](#), [Damien Eyraud](#), [Roman Stocker](#)

The afternoon of the second day will be dedicated to small group meetings to work specifically on the preparation of a position paper encompassing the results of the workshop.

Venue: Roscoff is a small town on the northern coast of Brittany about 60 km north-east of Brest and offer exceptional variety of biotopes: <https://goo.gl/axoJA3>

Participation: The workshop accommodation and board will be free of charge for participants; a limited number travel grants will attributed on a need-base. The total number of participants in the workshop is limited to 30. If you wish to participate, please fill in the following application form before January 15th, 2018: <https://goo.gl/NQwiUj>.

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FWS (9/12)

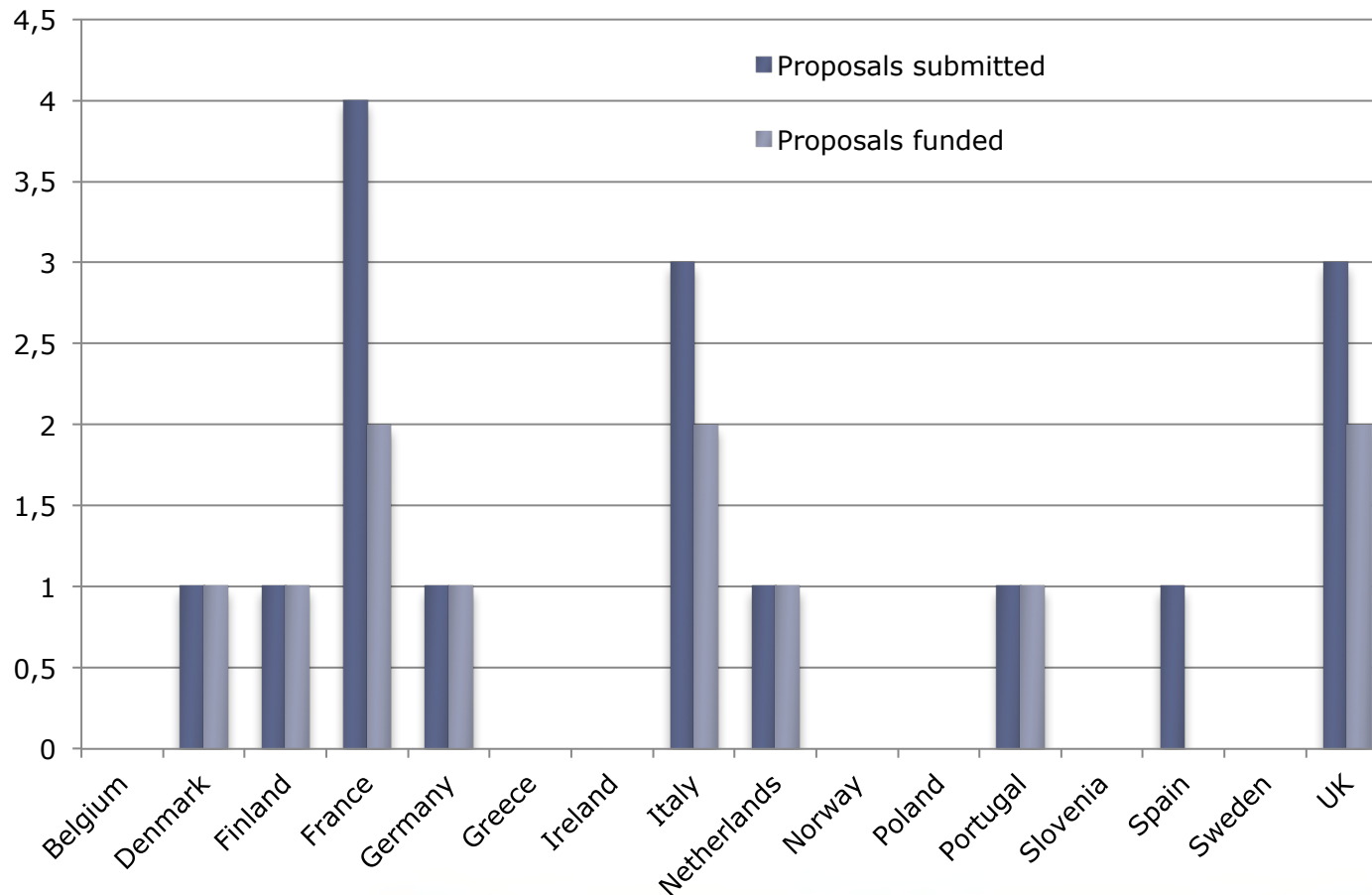
- ▶ **FWS (7,500 €)** Predicting the future of the ocean from signatures of the past: using marine sediment archives to understand adaptation of marine plankton to a changing environment
- ▶ **FWS (7,500 €)** Trait-based approach to seagrass ecosystems (TRAITGRASS)
- ▶ **FWS (7,500 €)** Improving the visibility of ocean data from new technologies: a case study of high frequency flow cytometry
- ▶ **FWS (7,484 €)** Ecosystem changes associated with offshore wind farms: bridging the gap between biogeochemical effects and its repercussions for ecosystem functioning and services
- ▶ **FWS (7,500)** Arctic Sea-Ice Change: Insights into near-future changes in Arctic sea-ice biogeochemistry and associated ecosystems

WG (2/4)

- ▶ **WG (5,000 €)** The marine animal forests of the world: challenges, frontiers and the role of science in its management and conservation (ANFORE)
- ▶ **WG (4,955 €)** EuroMarine Working Group on Marine Research Infrastructures (EMGRI)

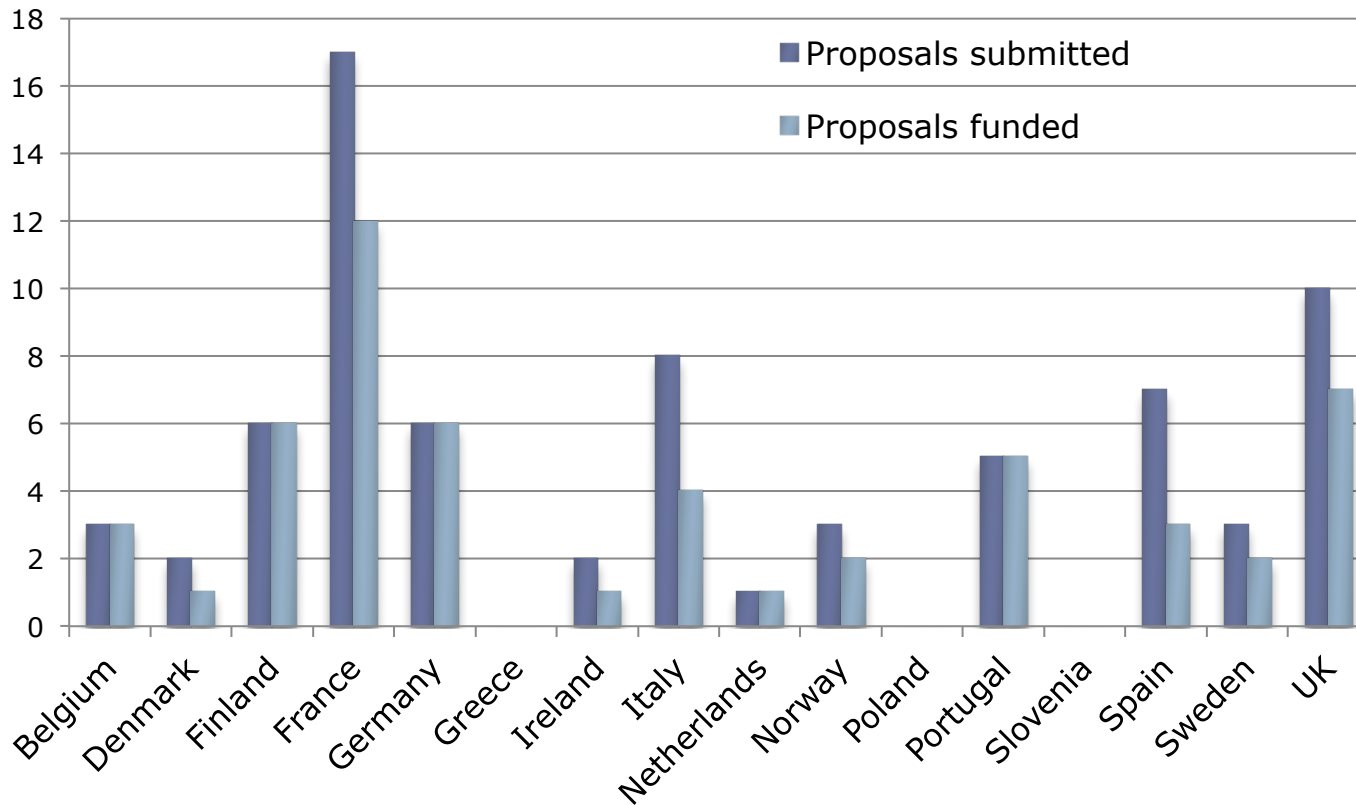


Proposals submitted versus funded per country



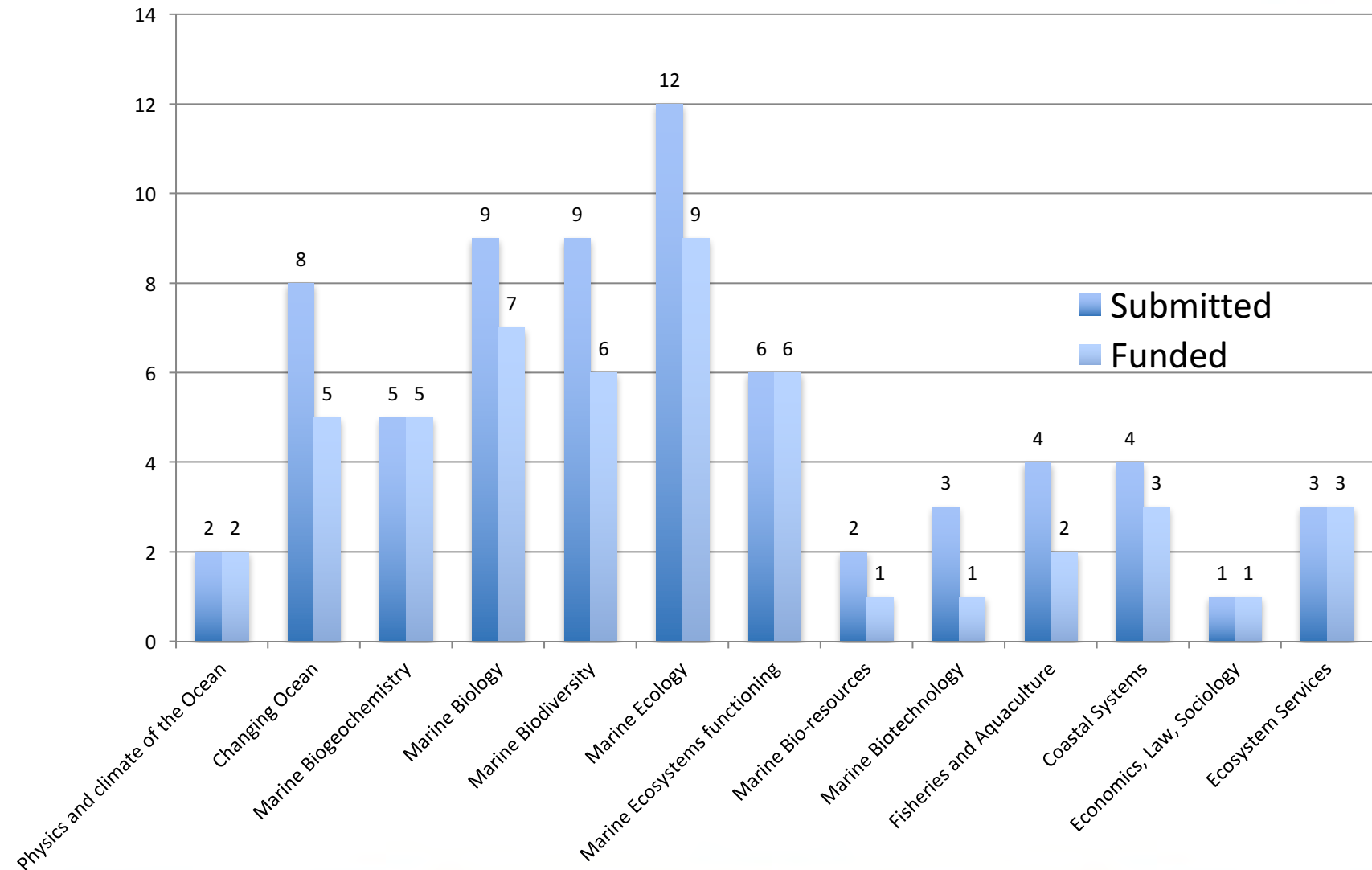
Considering
managing
organisations
only

Involvement of countries in submitted and funded proposals

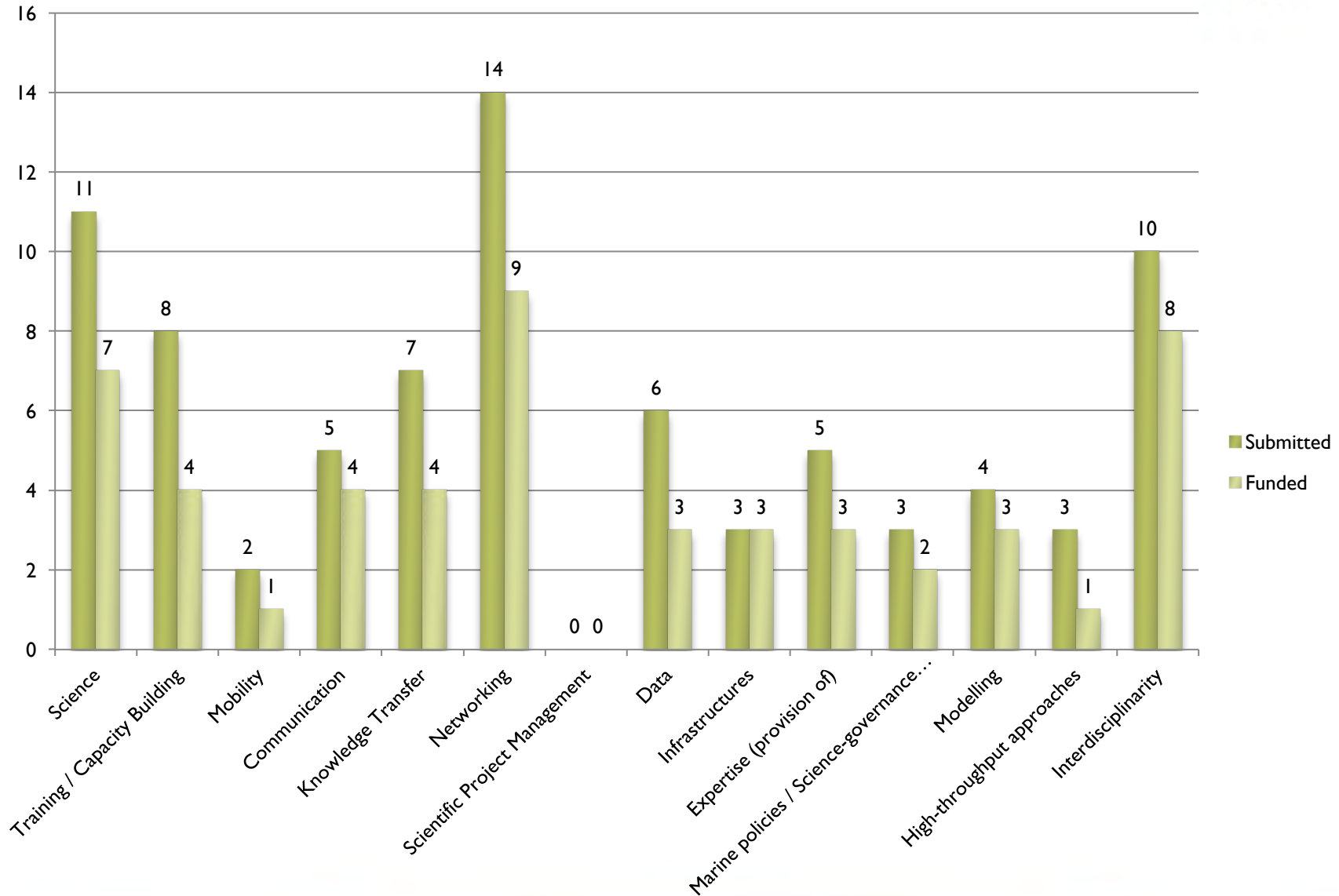


As reflected per the number of times Full MOs from a given country appear in proposals, be it as manager (M), co-organiser (C) or other key participant (K)

Scientific categories

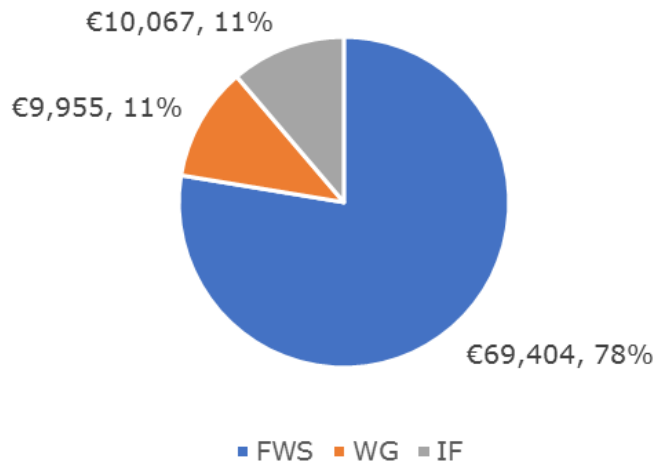


Other categories

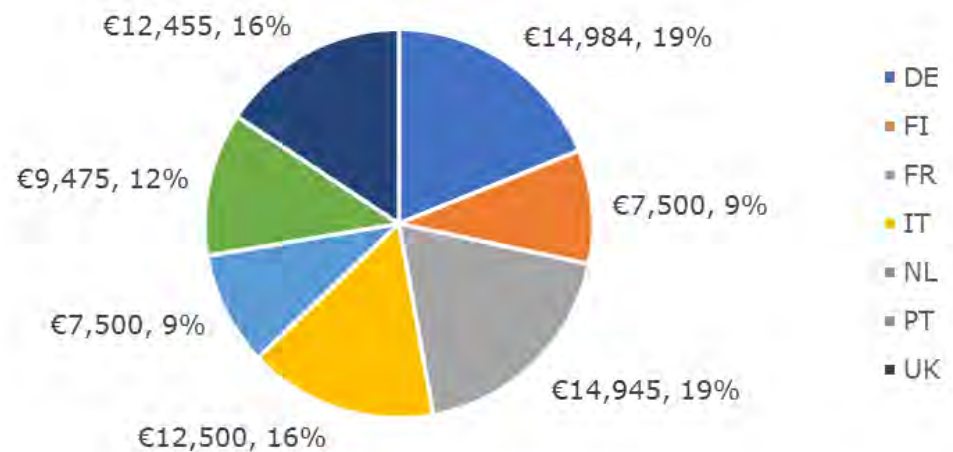


Budget numbers

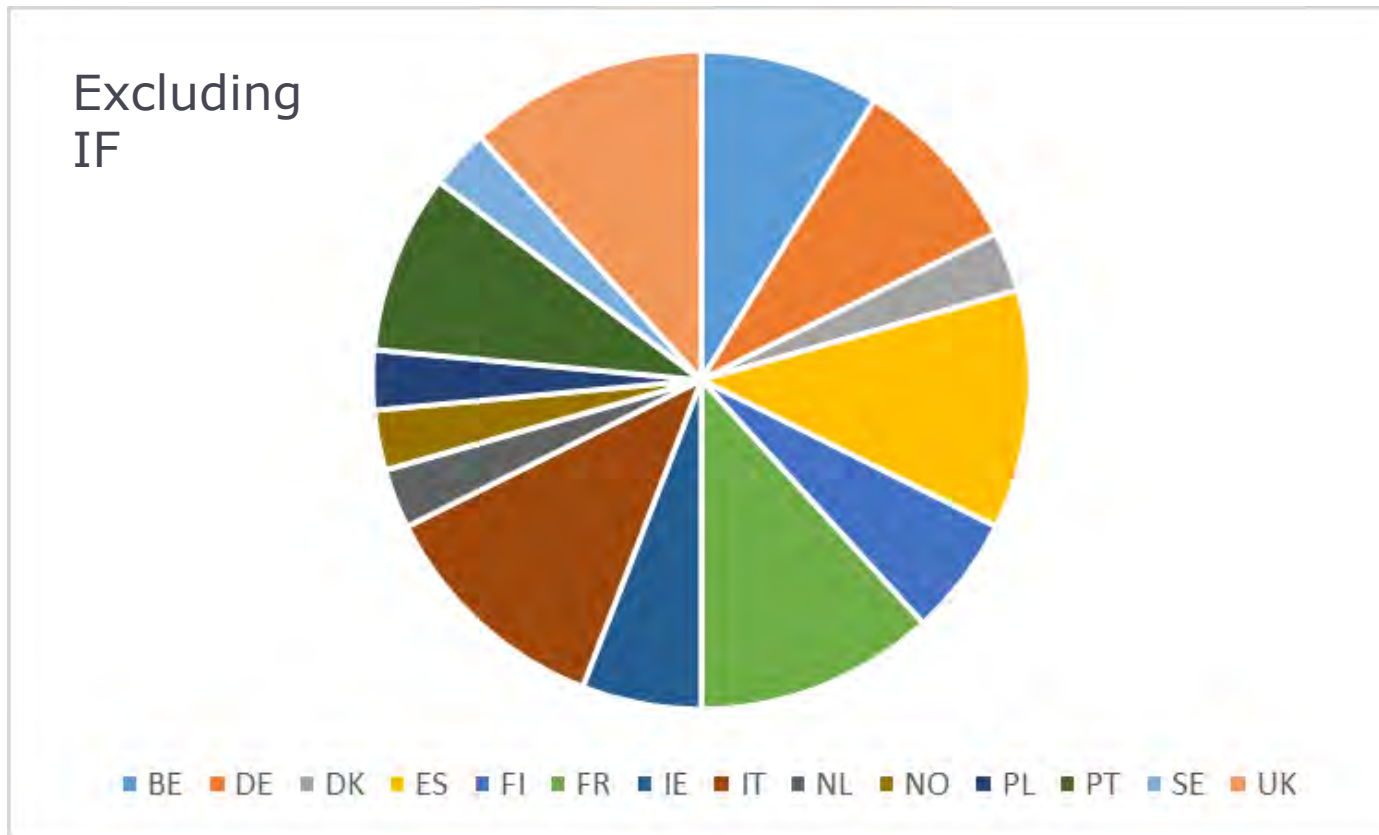
funded activities 2017



funding per MO (excluding IF)



EuroMarine Member Organisations involved in funded projects in 2017 (M, C, K participation)



Summary of Activity Outcomes 2014 - 2017

- ▶ Since 2014 EuroMarine has contributed over 490,000€ in funds to support 63 collaborative and bottom-up marine activities, with over 1,400 scientists involved in these innovative activities to date.
 - ▶ 35 Foresight workshops – 12 Capacity building and training courses – 10 Working groups – 6 Workshops & Other
- ▶ Topics covered to date: ecosystems, modelling, genomics, molecular, biogeochemistry, diatoms, ecology, fisheries, coastal resilience, global change, policy, chemical, biodiversity, MSP, biotechnology, evolution, governance, conservation, functional biology, social transformations, biomarkers.



Summary of Activity Outcomes 2014 - 2017

- ▶ **16 papers** published, 19 more under preparation
- ▶ **2 special issues** and a collection of papers underway
- ▶ **Scientific booklets, protocols, briefs, declarations** published
- ▶ Enhanced **collaborations** across national boundaries
- ▶ **Conference presentations**
- ▶ National and European **projects funded/joined** (1 H2020, 2 MSCA, 2 COST Action)
- ▶ **Proposals** ongoing (inc. COST Action, MSCA, ITN, ERASMUS+, EMBRIC, INTERREG)
- ▶ 2 online based **scientific games**
- ▶ **Follow up seminars, workshops**, meetings and more.....

Throughout 2017 the EuroMarine Membership Working Group worked on developing strategies to retain and increase membership.

Member Organisations 2017 (23 countries)

Full members



Permanent Invited



Transitional



The Future of EuroMarine

- ▶ Identify science priorities
- ▶ Provide new perspectives to
 - ▶ Facilitate long term integration of data
 - ▶ Build bottom-up links
 - ▶ Enhance education and training
- ▶ Engage with marine networks
 - ▶ Knowledge hub for marine science
 - ▶ Lobby for marine assessments
 - ▶ Share resources, infrastructure, knowledge



Thank you for your attention

www.euromarinenetwork.eu

