



EuroGOOS
European Global Ocean
Observing System



The role of EuroGOOS in co-ordinating Europe's Ocean Observations

**EurOcean/CNR Event on Ocean Observations
Tuesday 24th October 2017**

Glenn Nolan, Dina Eparkhina, Vicente Fernandez (EuroGOOS), Angel Muniz Piniella, Kate Larkin (EMB)



EuroGOOS

European Global Ocean
Observing System

Leading pan-European ocean observing network



AtlantOS



EUMETNET



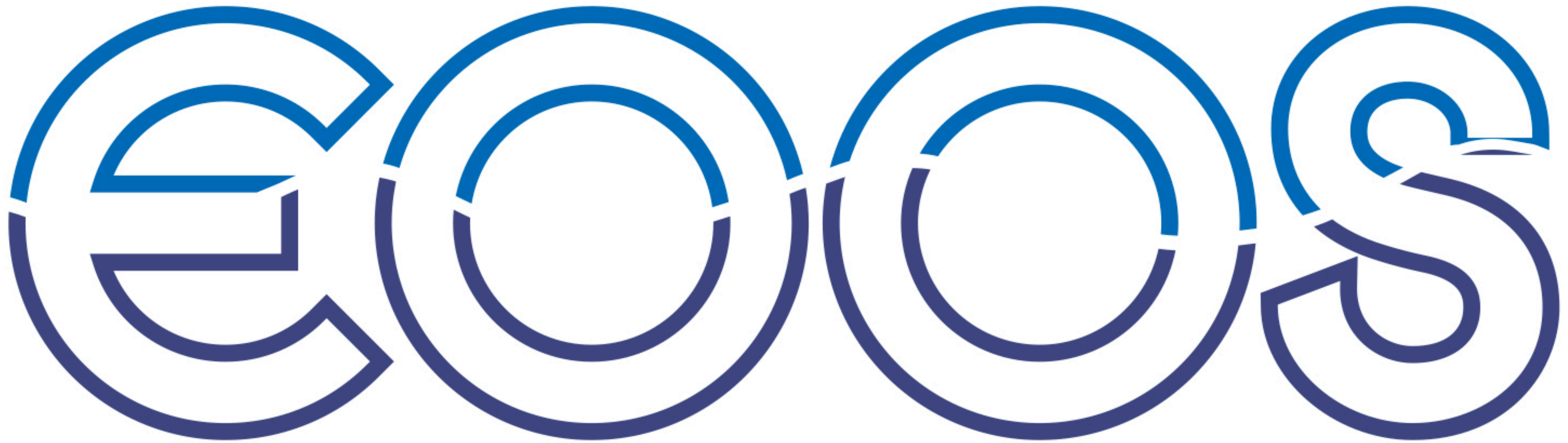


- EuroGOOS Regional Operational Oceanographic Systems, ROOSes
- National and regional **synergy** and delivery of oceanographic **products & services**
- Coordination of **observations** and the **data transfer**
- **ROOS regional data portals** = simplifying data transfer and enable **interoperability**



European regional coordination





EOOS is a coordinating framework designed to:

- ***align** and **integrate** Europe's ocean observing capacity;*
- ***promote** a systematic and collaborative approach to collecting information on the state and variability of our seas;*
 - ***underpin sustainable management** of the marine environment and its resources*

- **May 2015**, expert brainstorming workshop: recommendation to set up a steering group; steering group convened in March 2016, EuroGOOS and EMB co-chairs
- **EOOS steering group meetings**: 18 April 2016, 15 Sept. 2016, 9 Feb. 2017 – from now on three DGs: MARE, RTD, GROW
- **Summer 2016**: drafting of Consultation Document for an open stakeholder survey; Cons. Doc. presented at European Parliament EOOS event on **8 September**
- **May 2017**: EOOS consultation report released; call for national experts ongoing
- **Autumn 2017**: EOOS long-term strategy and short-term implementation
- **8 March 2018**: EOOS Forum, Academy of Sciences, Brussels

2007



EurOCEAN 2010



EurOCEAN 2014



2015



2016

EOOS



2018

EOOS

8 March 2018
The EOOS Forum

www.eoos-ocean.eu

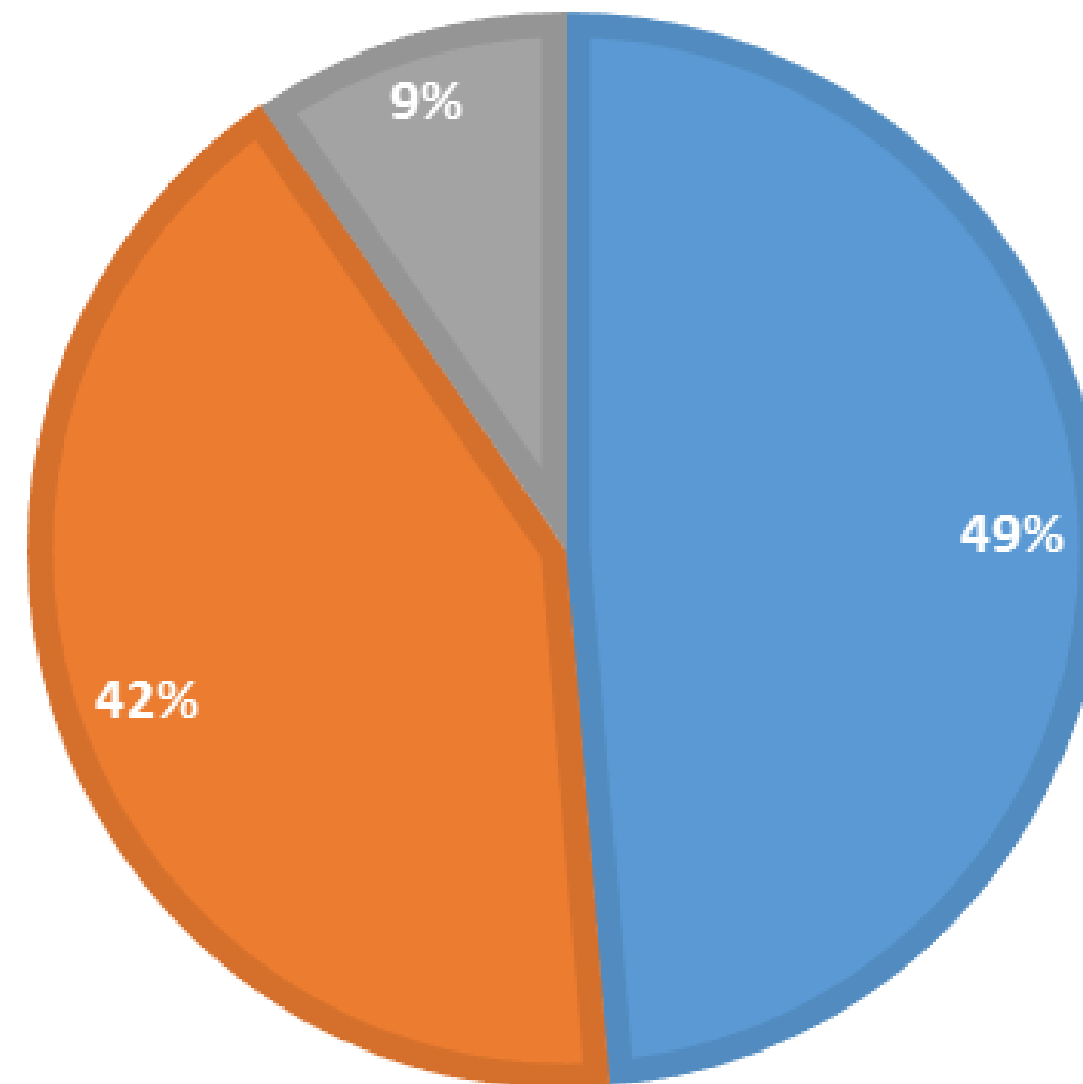
EOOS consultation: first results

Open on-line stakeholder consultation (6 weeks)

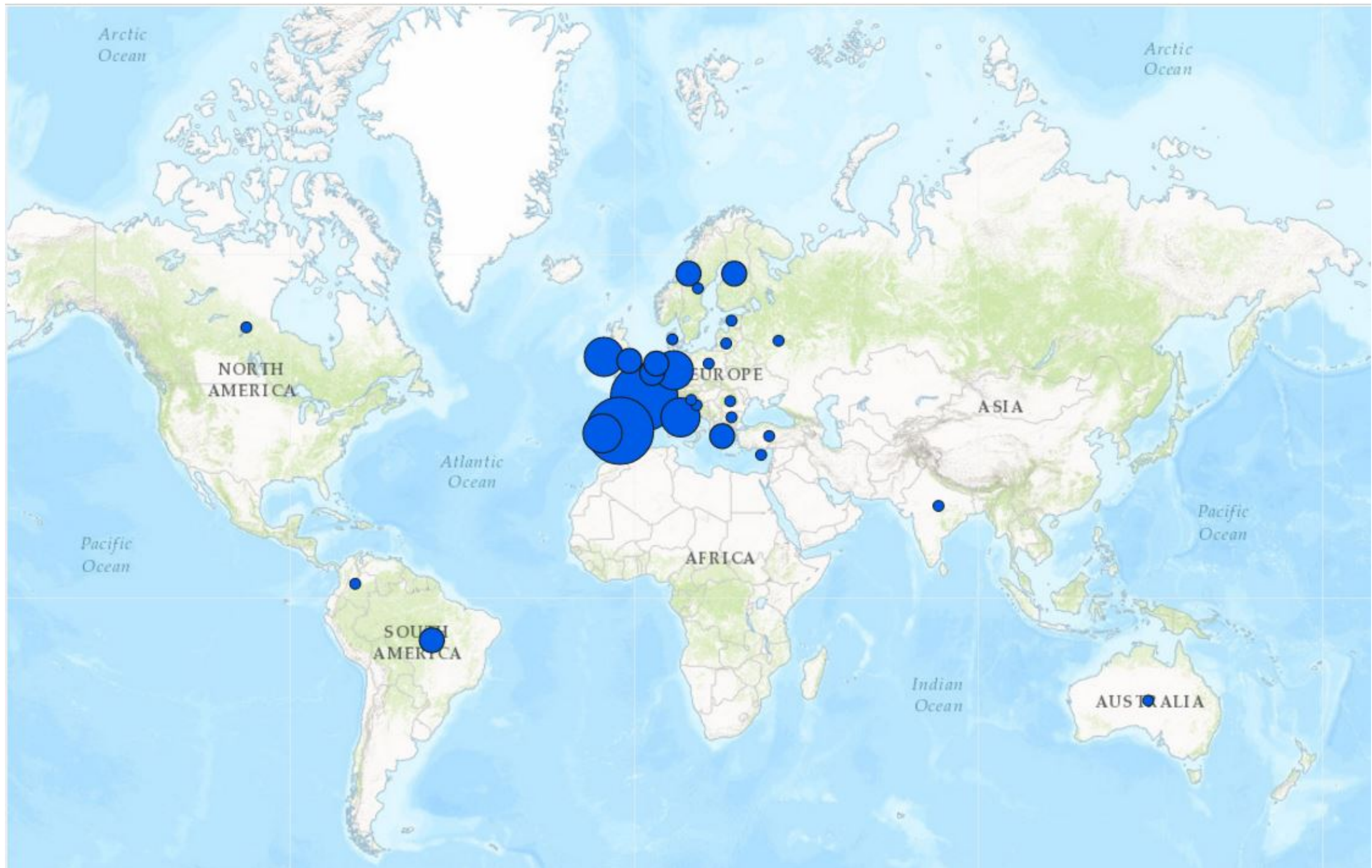
115 responses from 30 countries

- 56 individuals (on their own behalf)
- 48 single institutions/ companies
- 11 'umbrella' organizations of EU interest

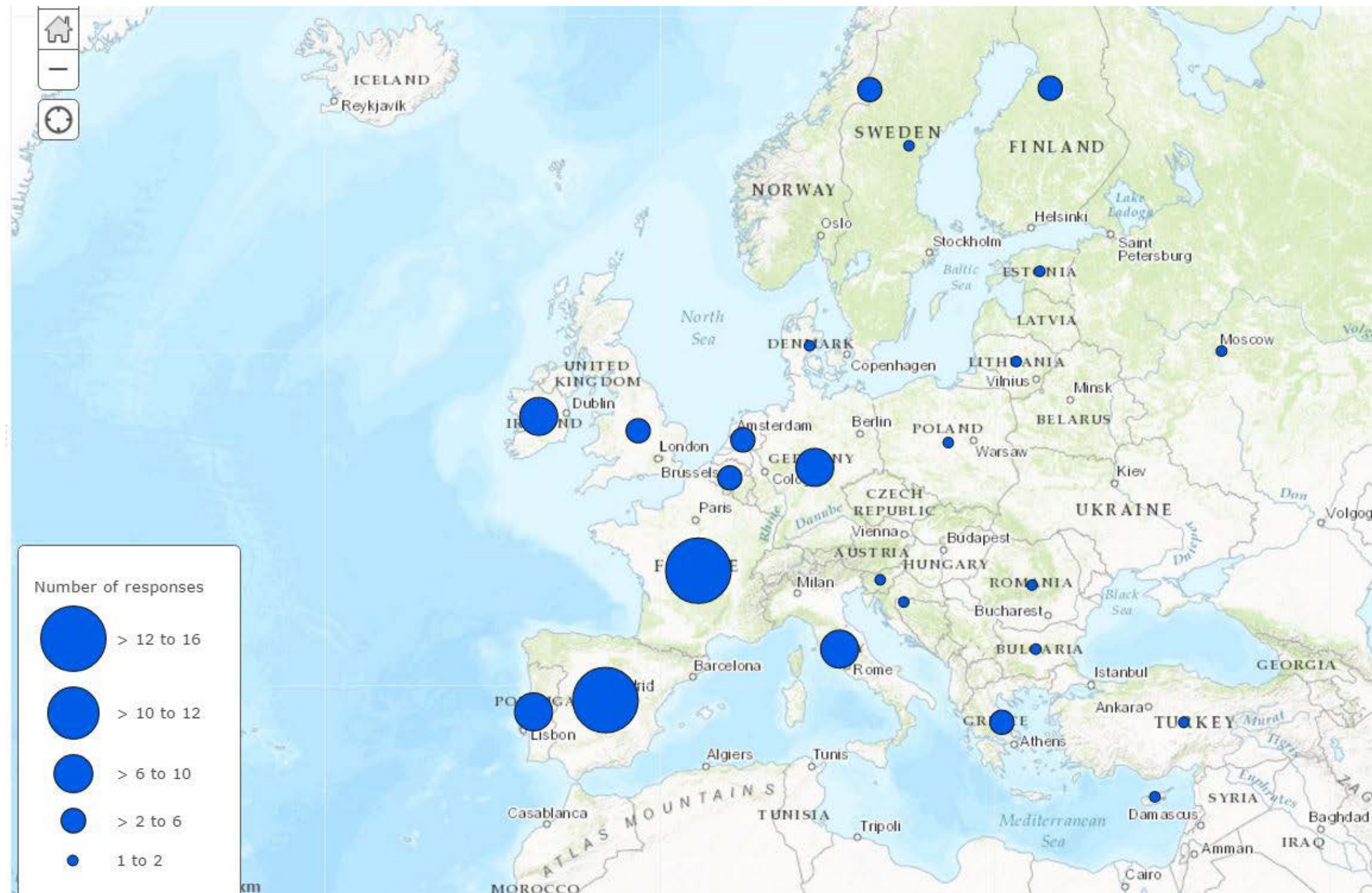
ARE YOU ANSWERING THIS QUESTIONNAIRE



- As an individual
- On behalf of a single institution / company
- On behalf of an 'umbrella' organization of EU interest



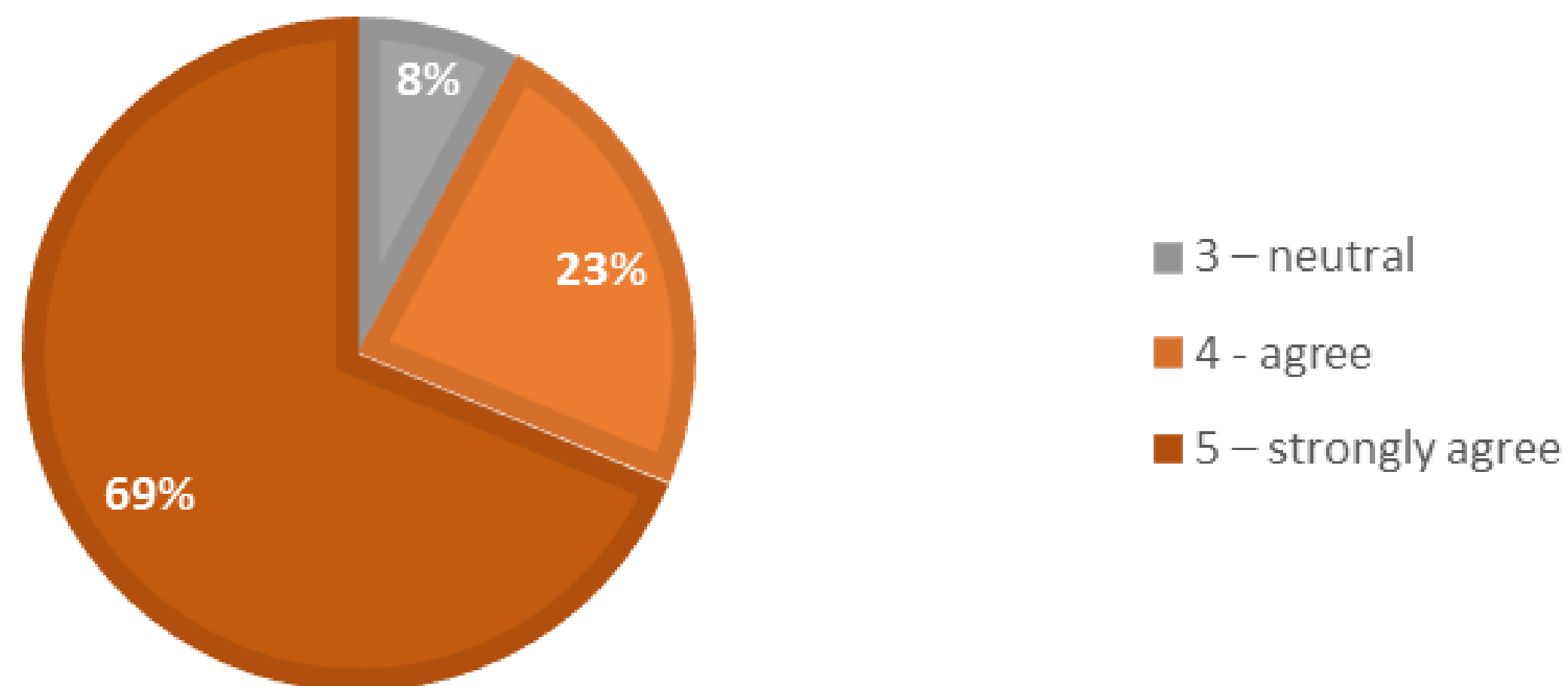
Survey: geographical spread - world



Survey: geographical spread – zoom on Europe

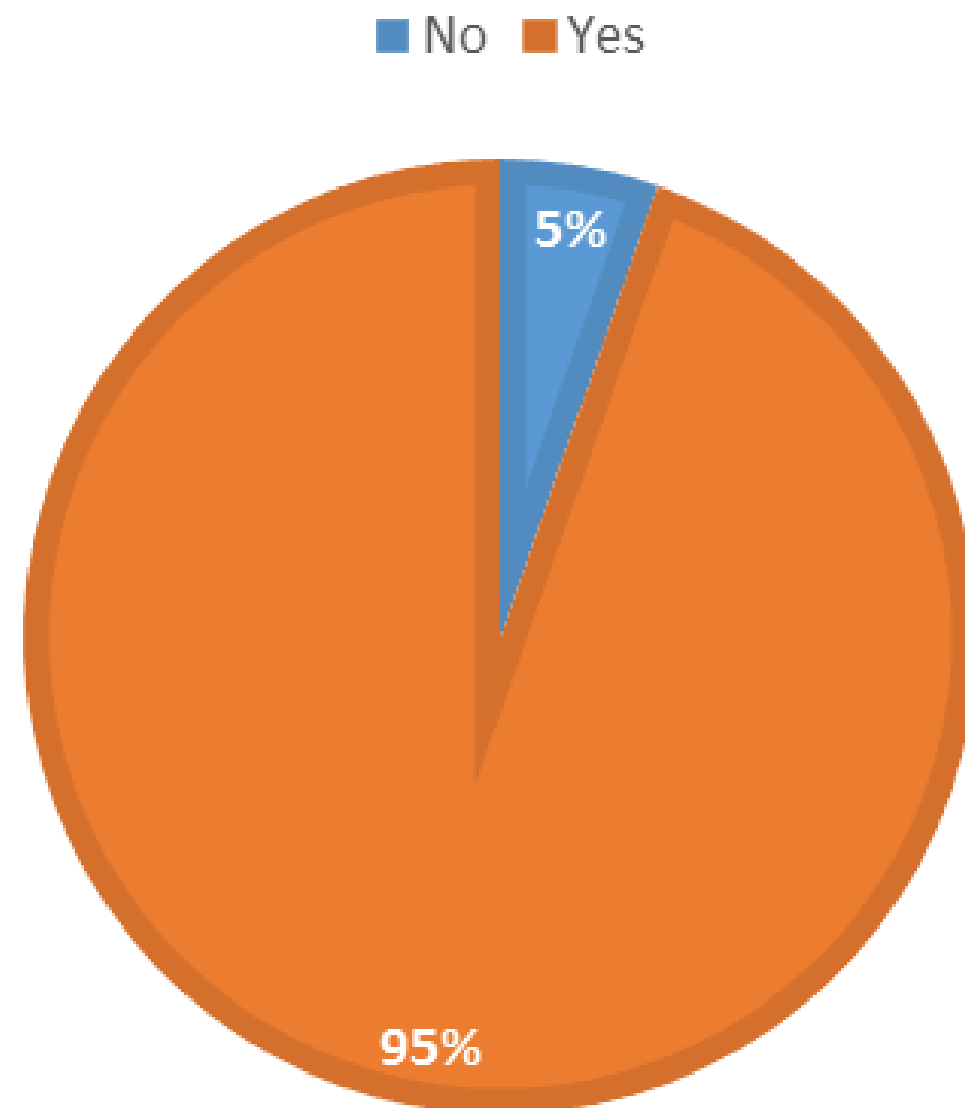
EOOS consultation: Agreement with the EOOS concept

DO YOU AGREE EUROPEAN OCEAN
OBSERVATION SHOULD BE BETTER
COORDINATED?



EOOS consultation: drivers

DO YOU AGREE WITH THE DRIVERS FOR EOOS OUTLINED IN THE CONSULTATION DOCUMENT?

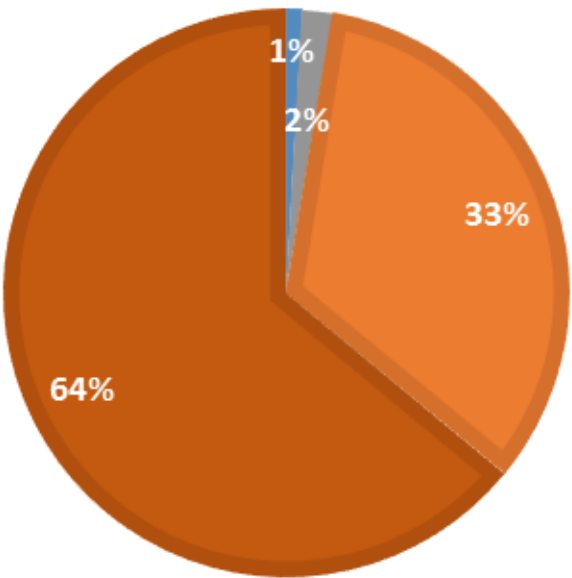


Other drivers:

- Need of a bottom up element (the community buy-in)
- Need to understand marine ecosystems (and observing science-driven EOVs)
- Sustainability in terms of funding and long-term planning
- Other suggestions

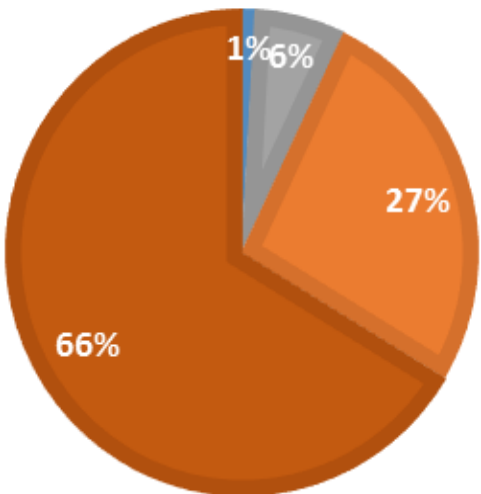
EOOS consultation: Role of EOOS

EOOS SHOULD HELP ALIGN AND CONNECT EXISTING EFFORT



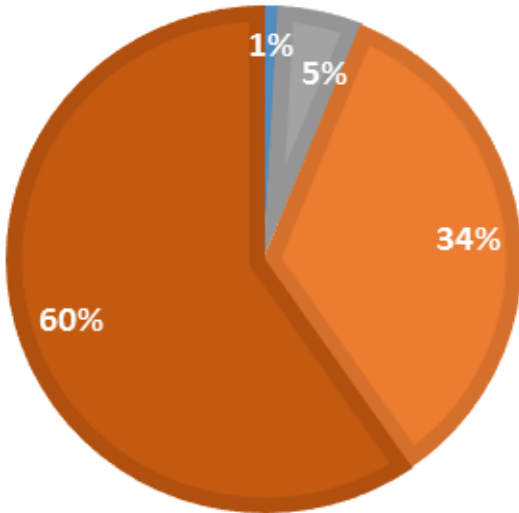
■ 2 – disagree ■ 3 – neutral ■ 4 - agree ■ 5 – strongly agree

EOOS SHOULD HELP IDENTIFY GAPS AND FOSTER INITIATIVES TO FILL THEM



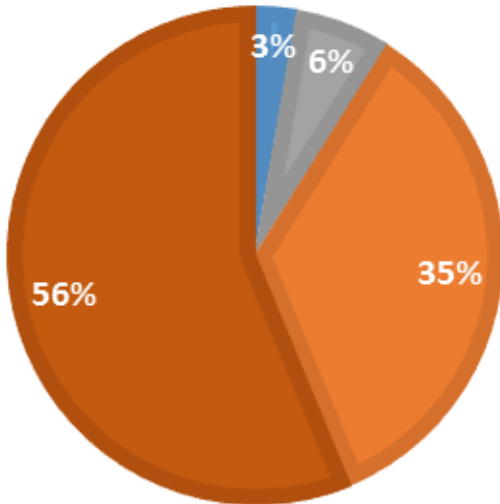
■ 2 – disagree ■ 3 – neutral ■ 4 - agree ■ 5 – strongly agree

EOOS SHOULD HELP PROMOTE OBSERVATIONS FOR MULTIPLE SECTORS



■ 2 – disagree ■ 3 – neutral ■ 4 - agree ■ 5 – strongly agree

EOOS SHOULD HELP INTEGRATE EUROPEAN OCEAN OBSERVING AT THE GLOBAL LEVEL



■ 2 – disagree ■ 3 – neutral ■ 4 - agree ■ 5 – strongly agree

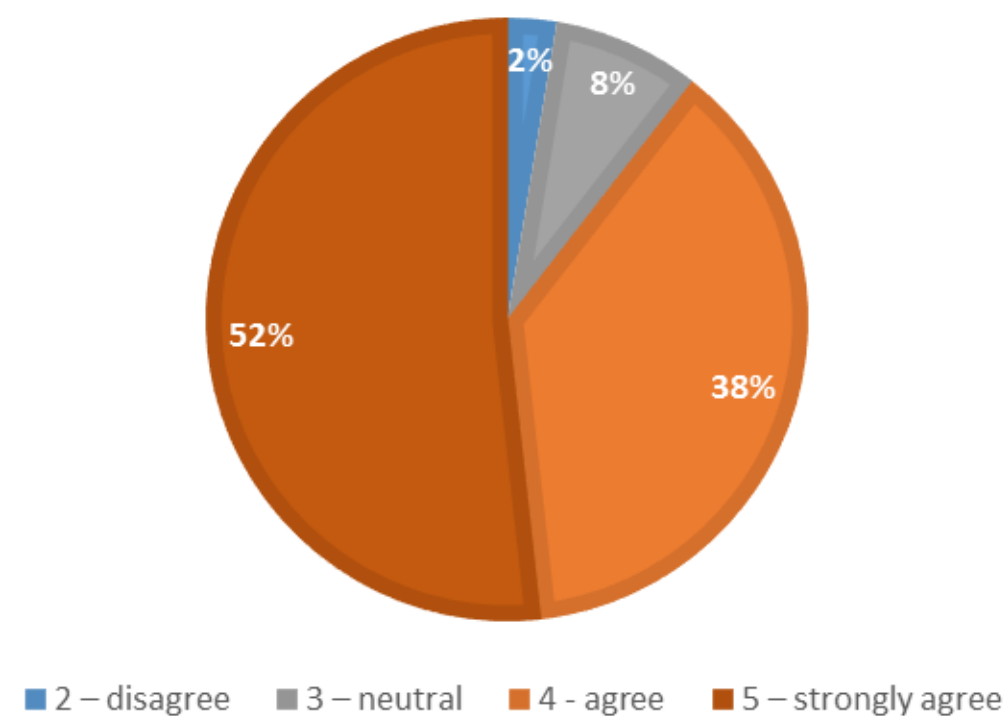
To what extent do you think EOOS should also play a role in:

Identifying priorities for R&D on ocean observation	36
Promoting open access to observation data	61
Other	16

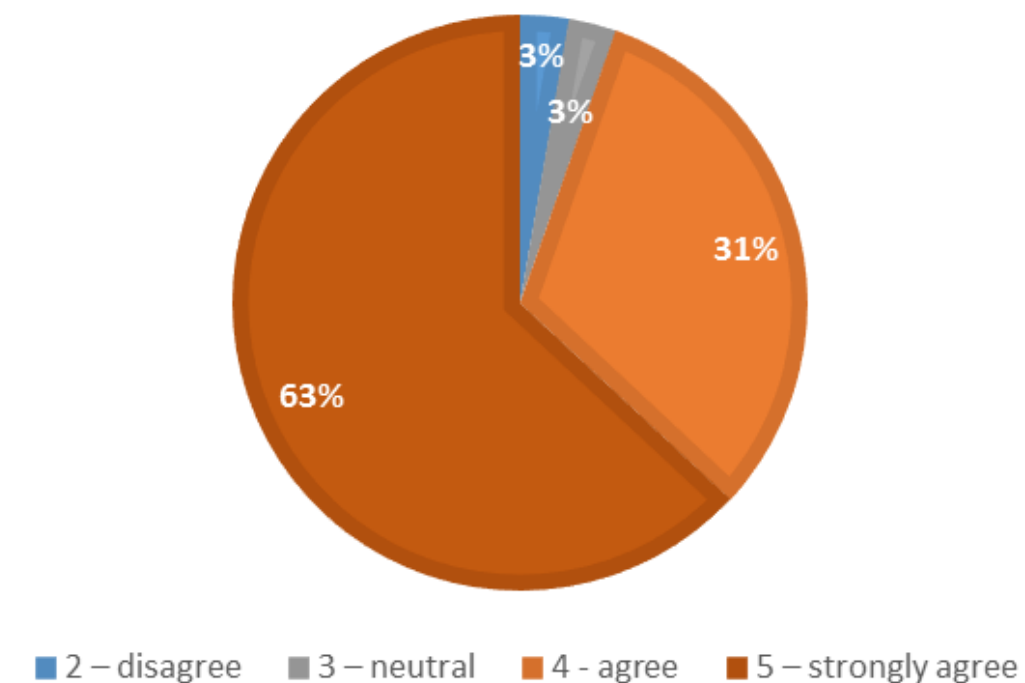


EOOS consultation: Scope of EOOS

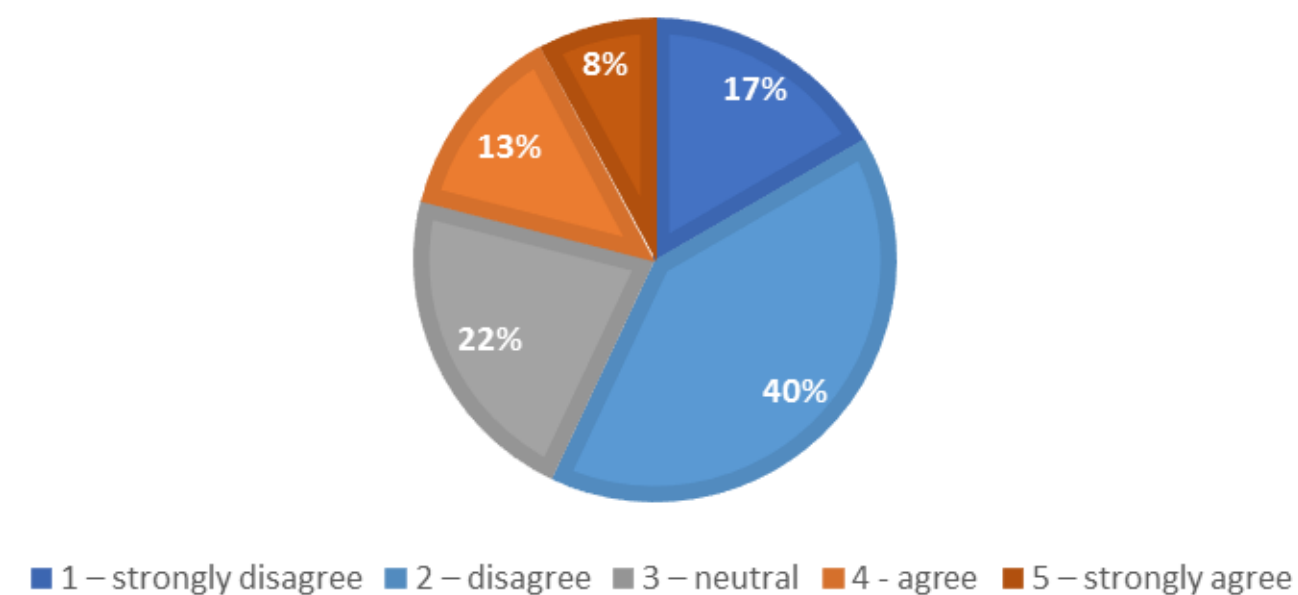
**ALL EUROPEAN OCEAN OBSERVATIONS
INCLUDING EU CONTRIBUTION TO GLOBAL
OBSERVING EFFORTS**



EU SEA BASINS AND SURROUNDING SEA

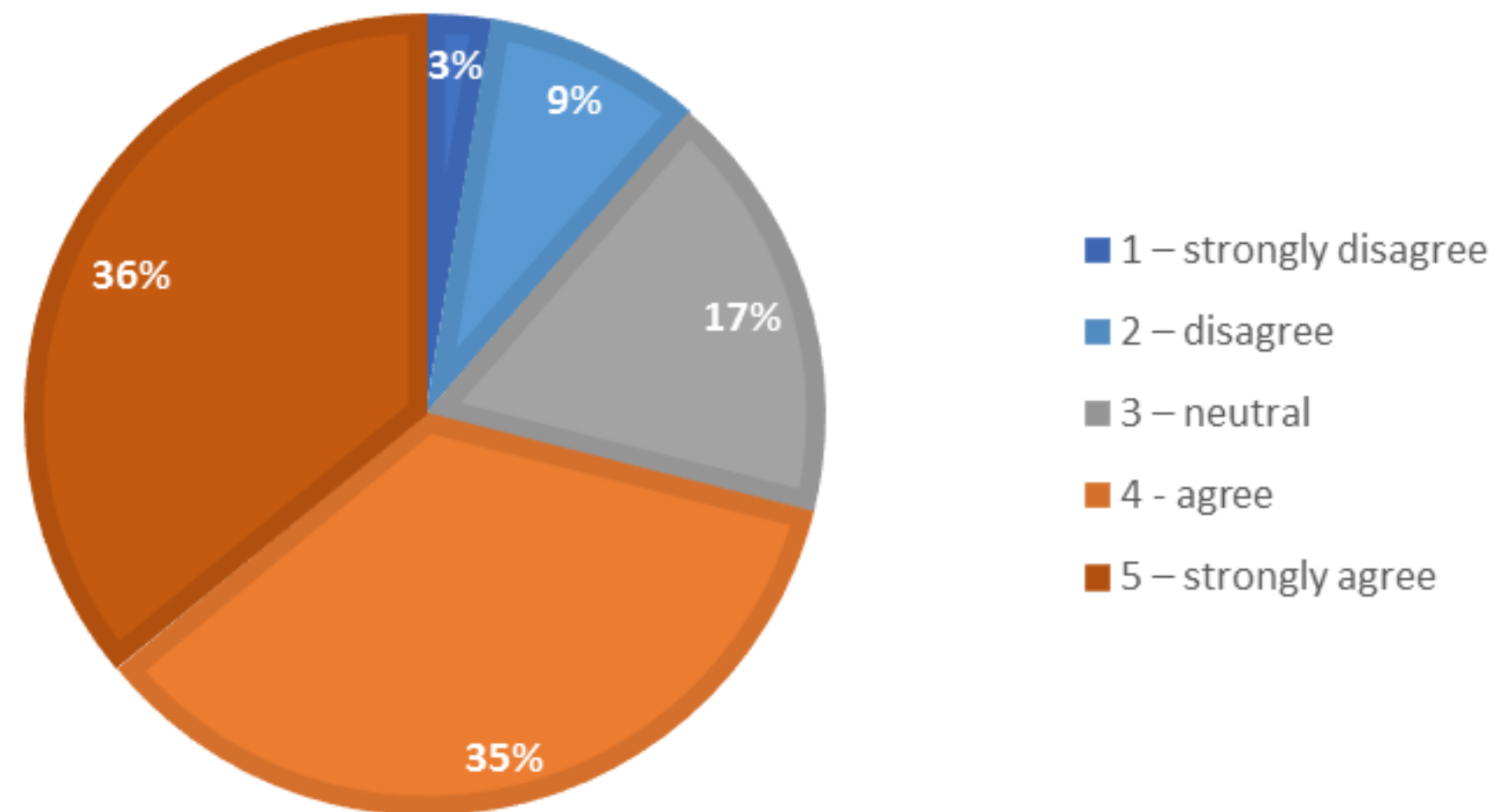


**EOOS SHOULD FOCUS MAINLY ON COASTAL
SEAS**



EOOS consultation: Marine Knowledge Value Chain

**THERE IS A GREATER NEED FOR IMPROVED
COORDINATION OF EUROPEAN DATA
ACQUISITION THAN OF DATA MANAGEMENT
AND ASSEMBLY?**

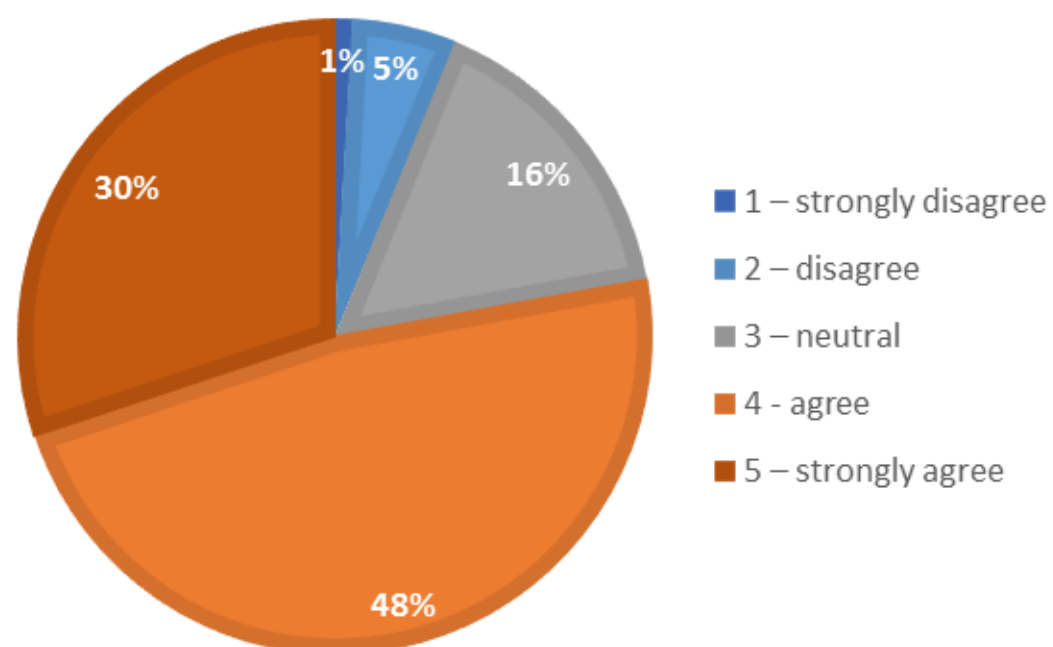


Comments:

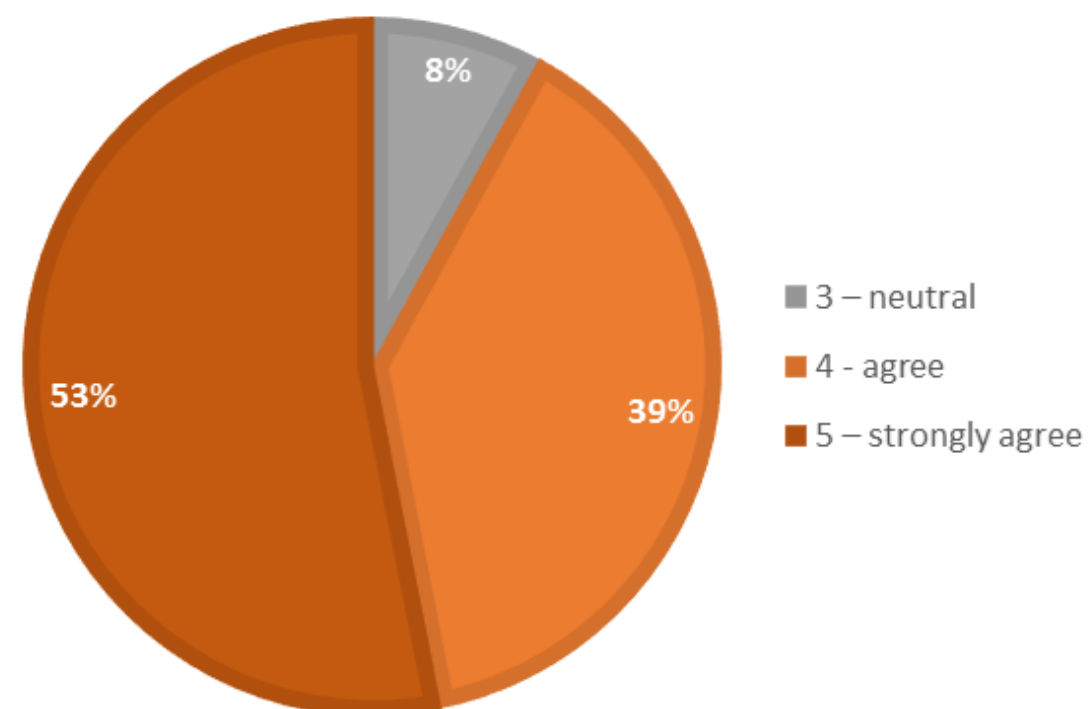
- two are intricately linked

EOOS consultation: Gap analysis

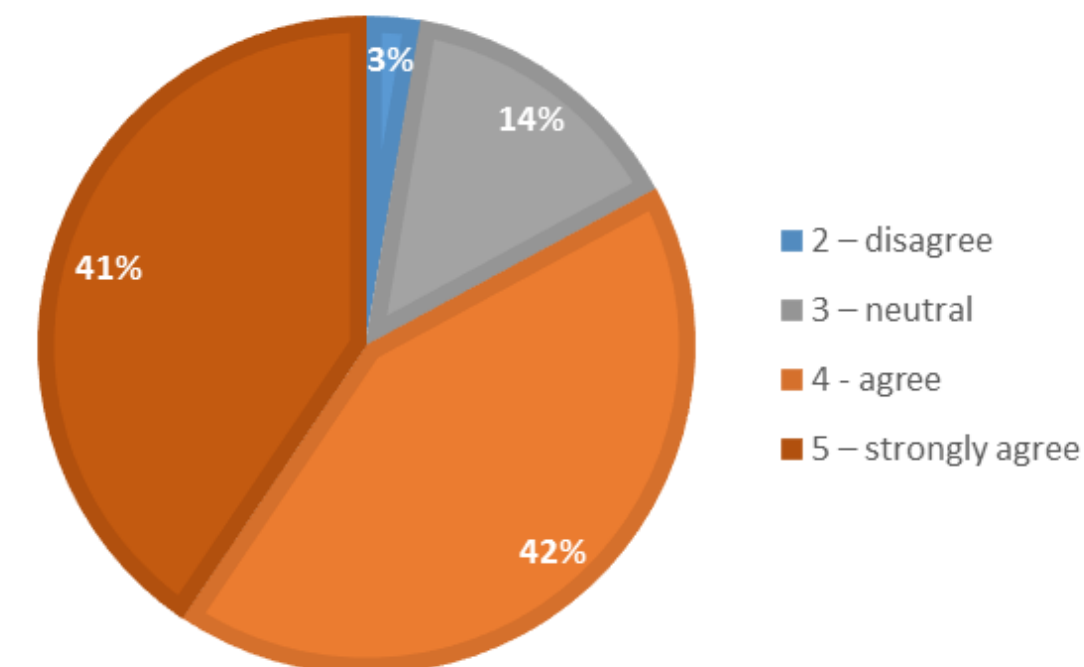
GOVERNANCE OF THE EUROPEAN OBSERVING SYSTEM/FRAMEWORK



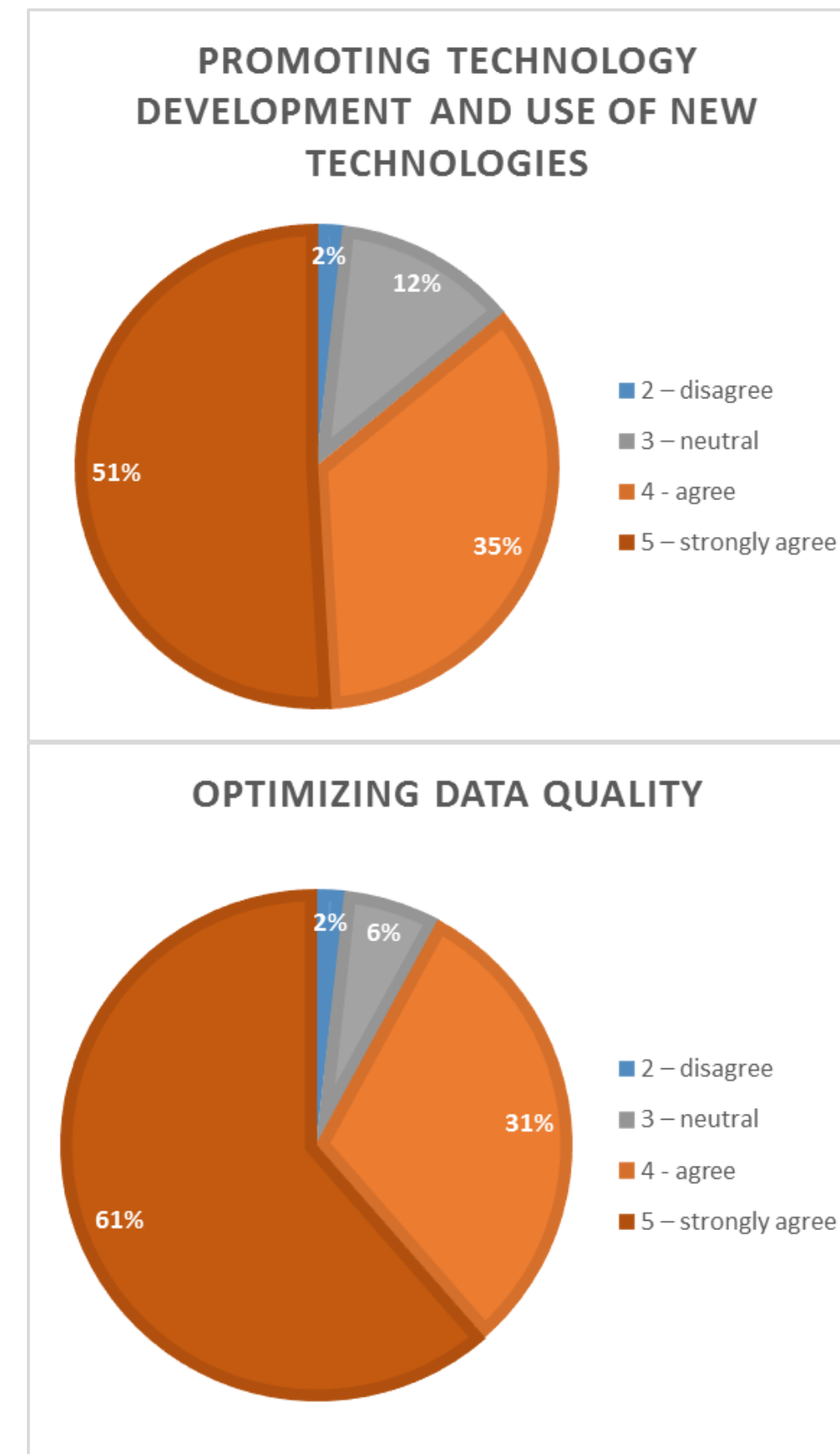
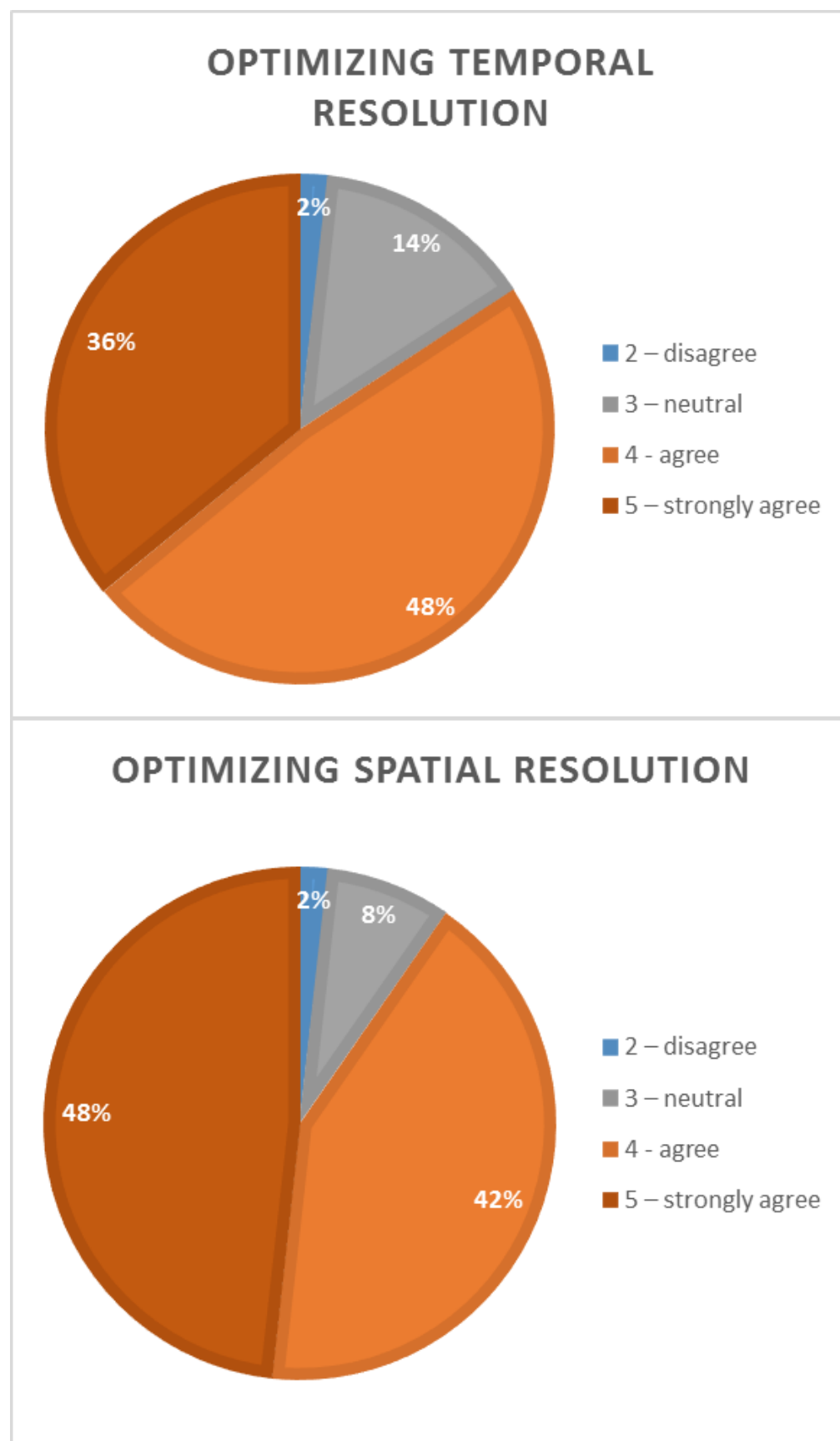
DELIVERING SUSTAINED OBSERVATION



OBSERVING AN INCREASING ARRAY OF MARINE ENVIRONMENTAL PARAMETERS

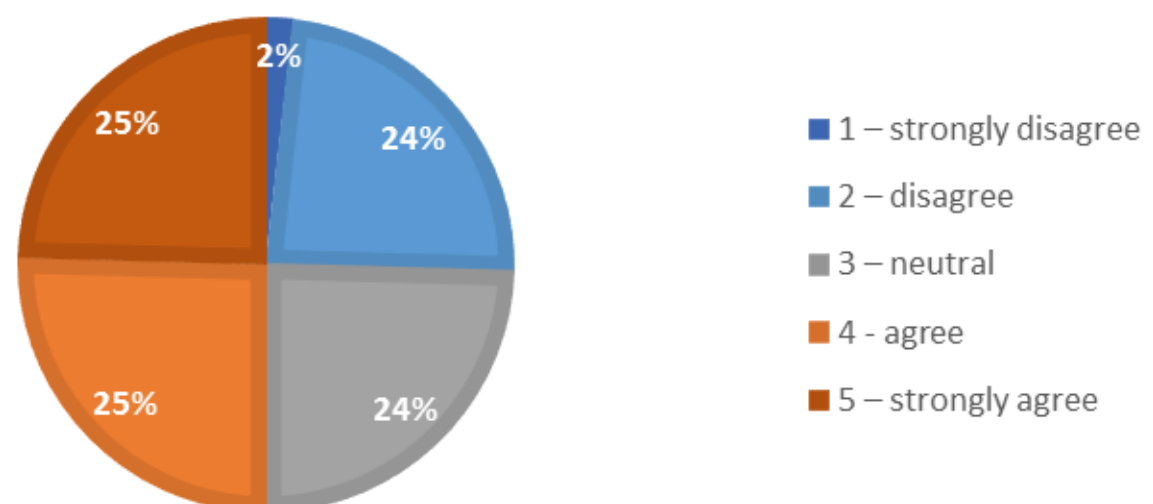


EOOS consultation: Gap analysis

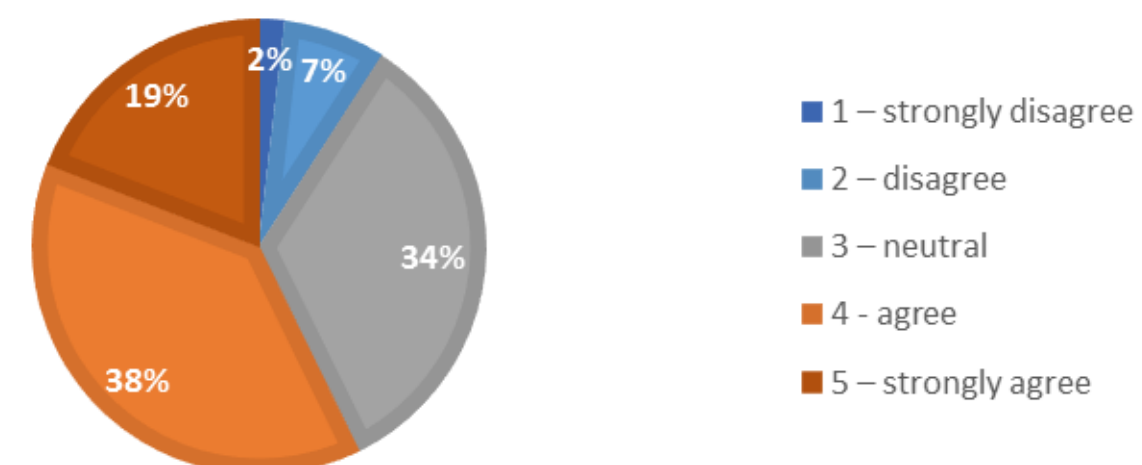


EOOS consultation: Governance

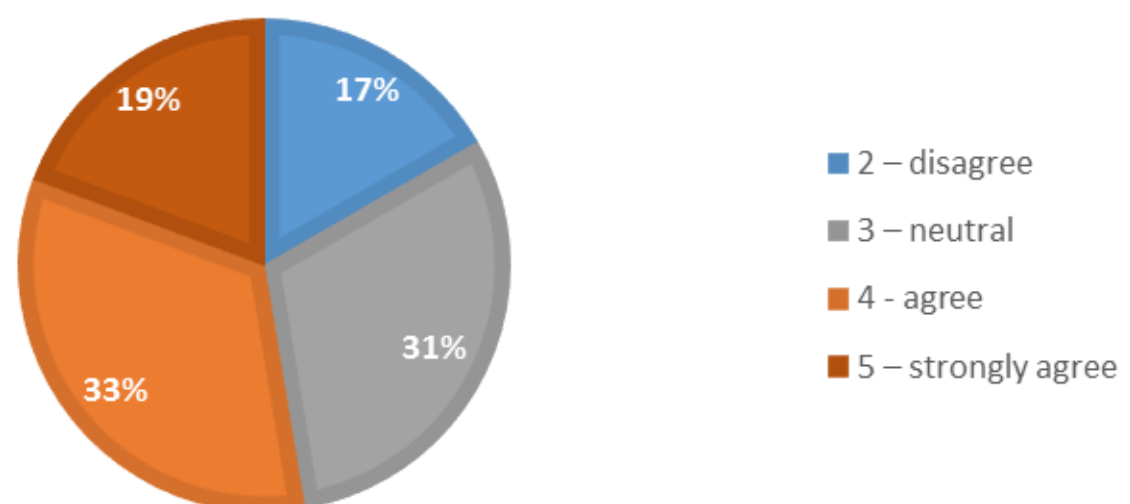
EUROPEAN OCEAN OBSERVATION AGENCY



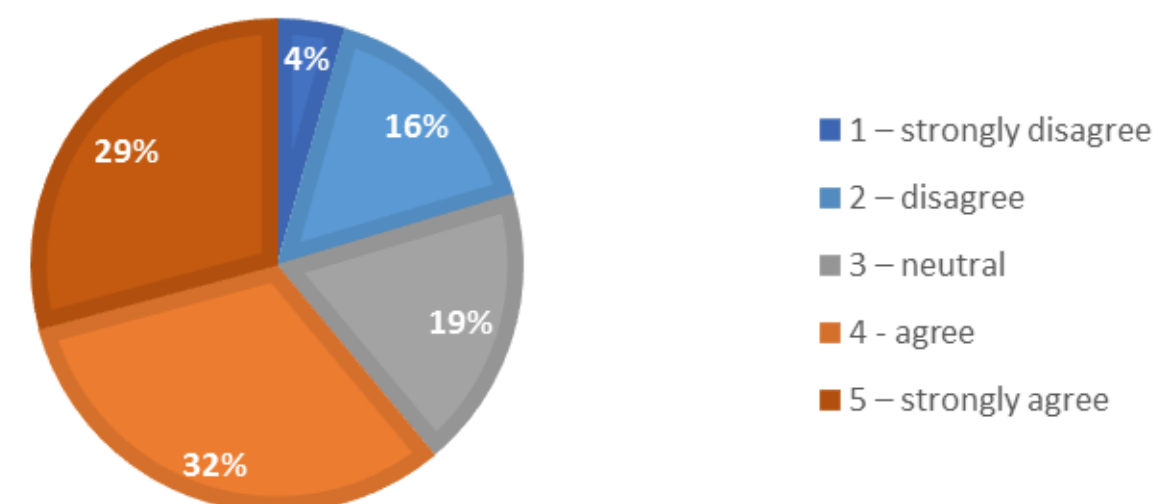
EXECUTIVE COMMITTEE WITH SOME
DECISION POWER



SECRETARIAT/IMPLEMENTING AGENCY



COMMUNITY FORUM

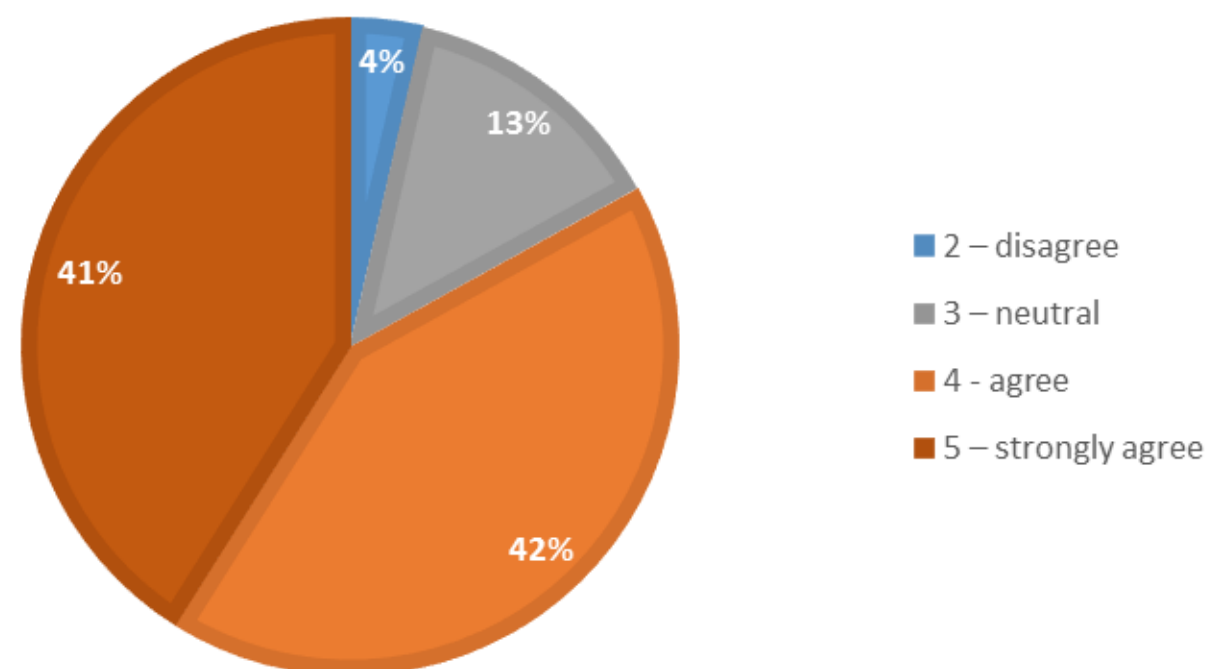


EOOS consultation: Governance (comments)

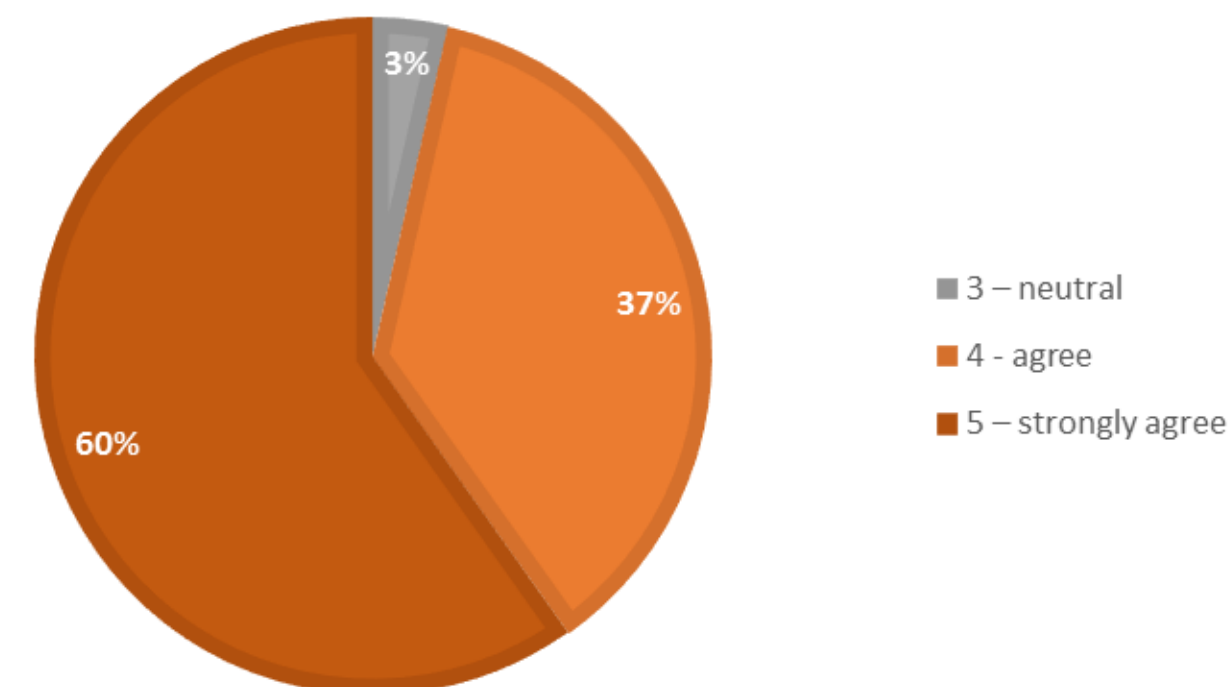
- Time frames: European Agency, long term; ExCom and secretary, short-medium term (to expand an existing structure)
- Inclusive flexible forum and a body with decision making (involvement of Member States/national agencies)
- Avoid competition with current limited resources
- Partnerships with other initiatives

EOOS consultation: Early coordination actions under EOOS

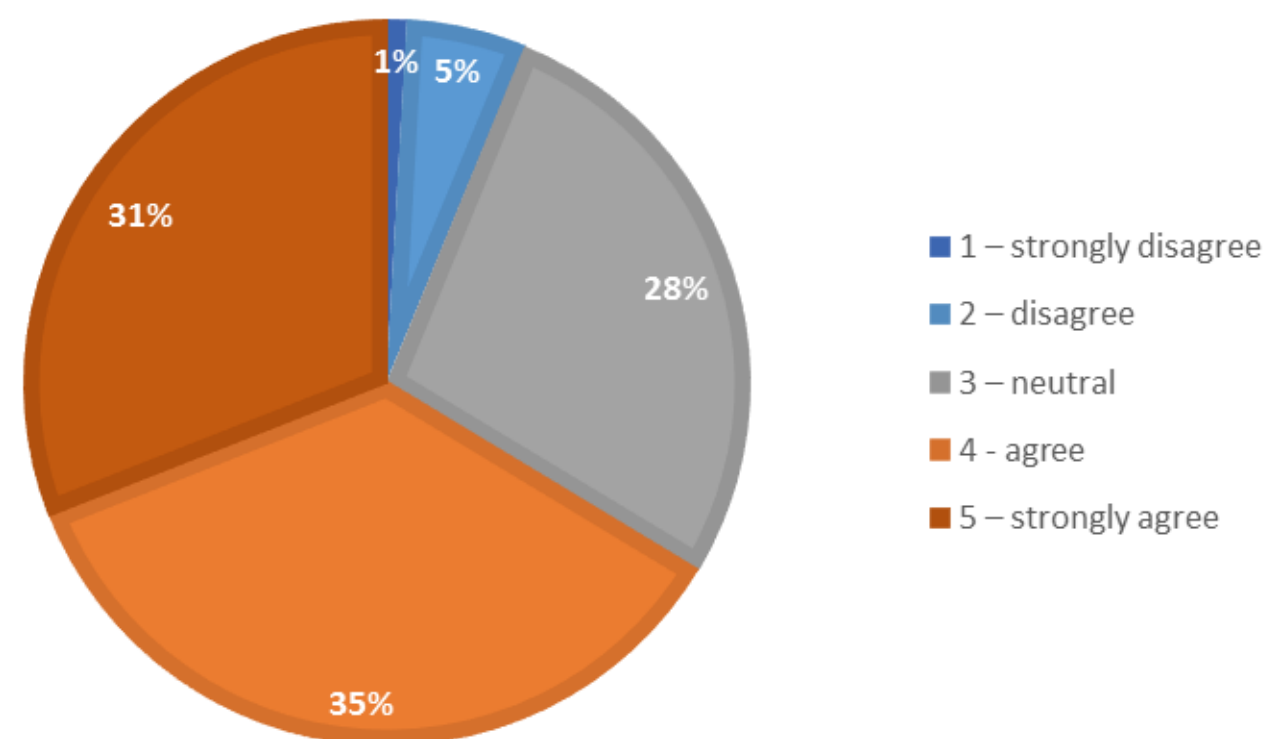
MAP AND CHARACTERIZE THE EXISTING
EUROPEAN OCEAN OBSERVING LANDSCAPE



FOSTER LINKS ACROSS EXISTING OCEAN
OBSERVING AND DATA INITIATIVES



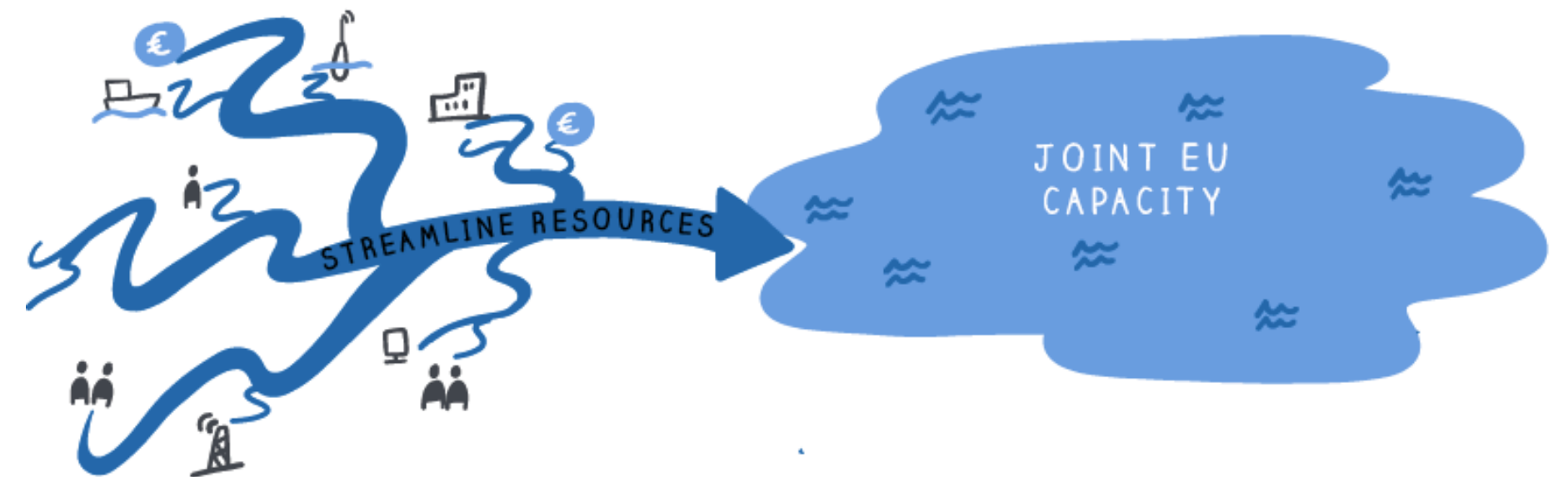
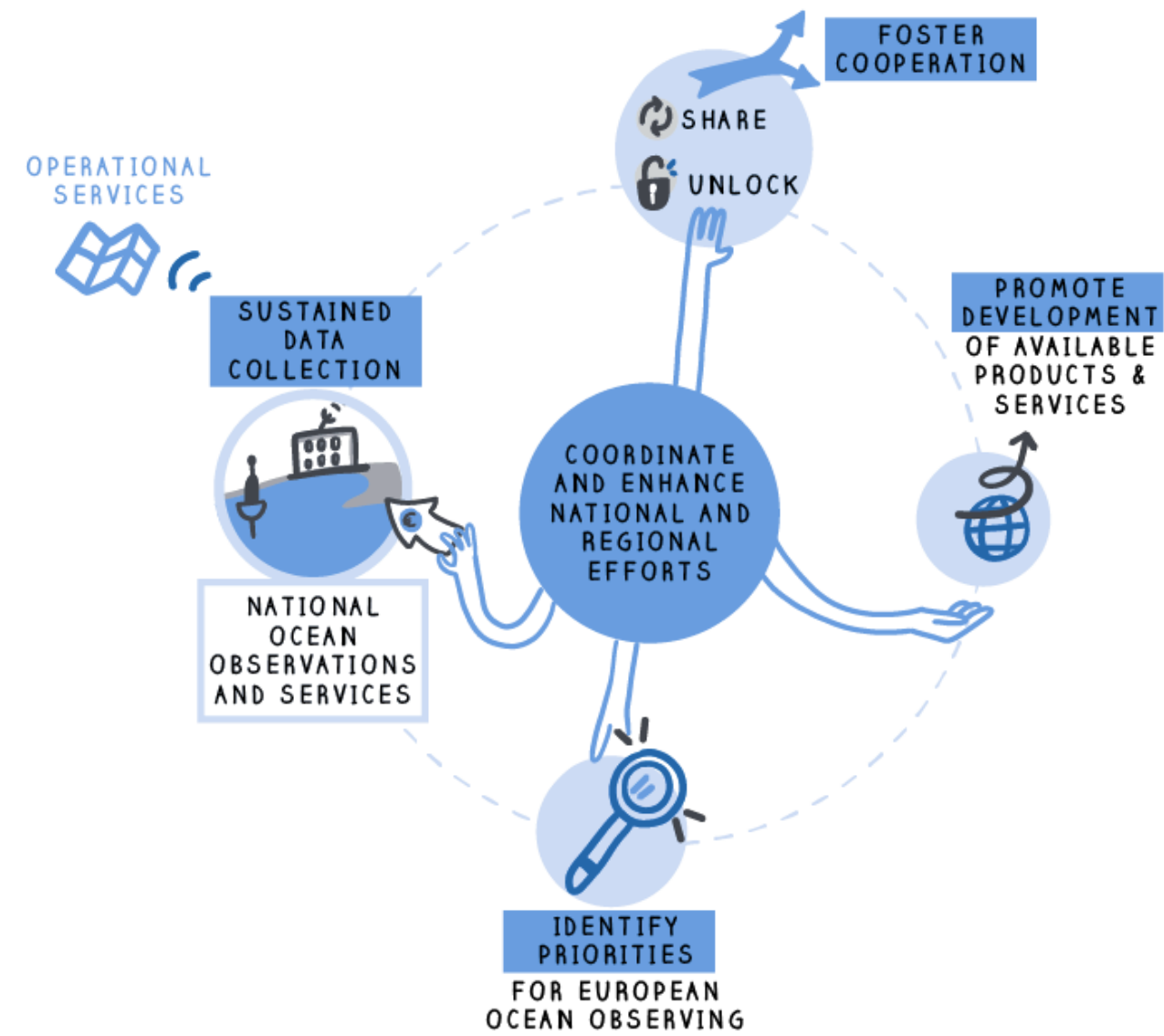
DELIVER A BUSINESS CASE



19

Comments:

- What should be done first (3, step by step)
- Other mapping already done
- "Value of the ocean observing is nothing to be questioned by now"
- Gain commitment from EC and Member States



Building a European Ocean Observing System

8 September 2016, 15:00-18:00
Room ASP 3 G 3
European Parliament, Brussels

HOSTED BY
Ricardo Serrão Santos MEP

“With every drop of water you drink, every breath you take, you’re connected to the sea. No matter where on Earth you live.”

SYLVIA EARLE, OCEANOGRAPHER, UN CHAMPION OF THE EARTH

- **GOOS** Regional Alliances Forum
- **GEO**: Board, Projects Conference
- Meetings with **Commissioner Vella**
- **Galway**: Seabed Mapping WG
- **EOOS** event at the European Parliament
- **CIESM** Congress
- **COLUMBUS** Conference
- **MRI meetings**: Jerico, AtlantOS, Euro-Argo, FixO3, GAIC, ENVRI+
- **Exhibitions**: EMD, UNESCO IOC World Oceans Day, EGU, AGU, IMDIS
- **EC Science and Business Forum**
- **GEO-XIII Plenary**
- **IOC/IODE-XXIV Session**
- **IOC - DG MARE MSP Conference**
- ...



EOOS



European
Ocean
Observing
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Aligning, integrating and promoting
Europe's ocean observing capacity

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#EOOS

WHAT IS EOOS

EOOS is a coordinating framework designed to align and integrate Europe's ocean observing capacity, promote a systematic and collaborative approach to collecting information on the state and variability of our seas, and underpin sustainable management of the marine environment and its resources.

CONSULTATION

An open stakeholder consultation collected views from a wide community of ocean data providers, infrastructure managers, technology developers, data users, and broad ocean observing stakeholders. The consultation ran for 6 weeks; it is now closed.



Building EOOS: Open Stakeholder Consultation


EOOS will deliver a vision, roadmap and a common focal point for European ocean observing research and technology.



European
Ocean
Observing
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Aligning, integrating and
promoting Europe's ocean
observing capacity





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#EOOS

EOOS > News & Events

News & Events

Stakeholder consultation on EOOS design open – Have your say!

6 December 2016

From 12 December until 20 January 2017, an [open stakeholder consultation](#) is launched to help design an integrated and sustained European Ocean Observing System, EOOS. The consultation targets a wide European community of ocean data providers, infrastructure managers, technology developers, data users, and broader ocean observing stakeholders.

This survey is critical to collect views from the European ocean observing community and wider stakeholders and to inform any decision-making about a future EOOS.

The need for an end-to-end integrated and sustained European Ocean Observing System, EOOS, has been expressed by the oceanographic and scientific community during the development of the European [Integrated Maritime Policy](#) in 2007. Since then, EOOS has featured in a number of scientific and science-policy documents. An overview of those developments is available [here](#). Through those documents, a need for EOOS has been expressed at both regional and pan-European levels. However, to design an efficient and sustained EOOS concrete stakeholder recommendations are needed, as well as a policy buy-in.

The consultation survey was designed by the EOOS Steering Group brought together by EuroGOOS and the European Marine Board, in their consolidated actions to make EOOS a reality.

Have your say on the future EOOS!

Building a European Ocean Observing System – European Parliament event

30 November 2016

Date


08/09/2016

- Building EOOS EP Event Agenda (283.8 KiB)
- Building EOOS EP Event Summary (563.3 KiB)
- Building EOOS EP Event Flyer (904.5 KiB)

The need for an end-to-end integrated and sustained European Ocean Observing System (EOOS) has been expressed by the oceanographic and scientific community during the development of the [Integrated Maritime Policy](#) in 2007. In 2008, EuroGOOS and European Marine Board released a joint vision document (pdf) to outline the concept of this framework. Since then, EOOS has featured in a number of scientific and science-policy documents. An overview of those developments is available [here](#).

In 2016, after a successful brainstorming workshop, EuroGOOS and European Marine Board convened an expert panel acting as EOOS Steering Group. The Steering Group has developed a consultation document to collect feedback for the EOOS implementation roadmap and launch it for a wide stakeholder consultation.

On 8 September 2016, the EOOS progress and the consultation document were presented at a dedicated event at the European Parliament hosted by MEP Ricardo Serrão Santos.





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EOOS > EOOS materials

EOOS materials

- EOOS Consultation Document
 - [EOOS Consultation Document](#) (740.6 KiB)
- Summary of the EOOS event at the European Parliament, 8/09/2016
 - [EOOS-EP-event-main-outputs](#) (563.3 KiB)
- Slides on EOOS process
 - [EOOS-Progress-Nov2016](#) (1.0 MiB)
- EOOS flyer
 - [EOOS-flyer](#) (124.6 KiB)
- EOOS poster (A0)
 - [EOOS-poster-2016-A0](#) (206.4 KiB)

+

- Relevant Materials
- About: What is EOOS, Why, EOOS Progress



EOOS

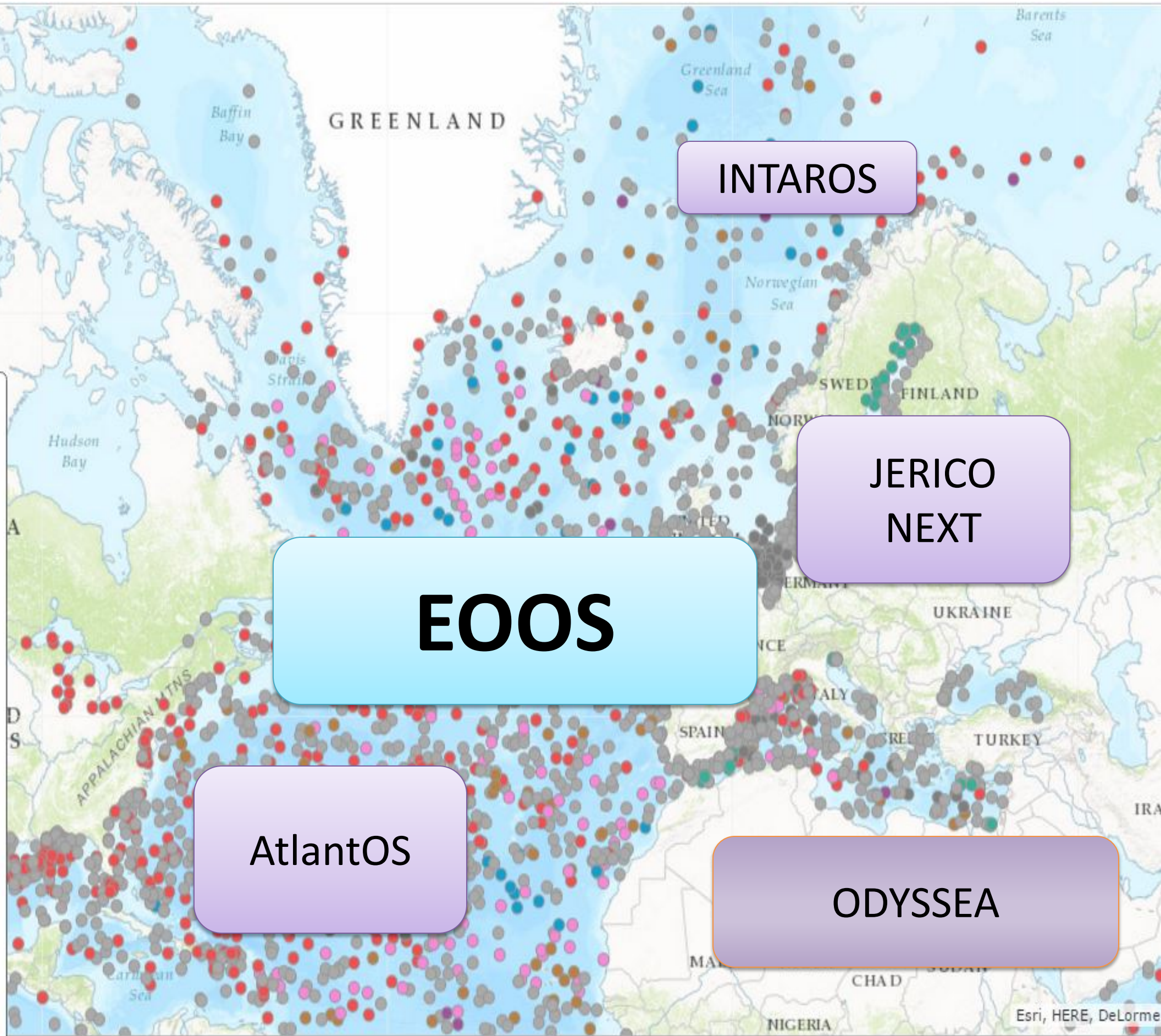
www.eoos-ocean.eu



Ocean Observations



- pour l'Exploitation de la Mer
- MET OFFICE (OCEAN WEATH. SERV)
 - SMHI
 - Met Office (Ocean Weather Services)
 - Bundesamt für Seeschifffahrt und Hydrographie BSH
 - BSH Bundesamt für Seeschifffahrt und Hydrographie
 - LOV Laboratoire Oceanographique de Villefranche
 - Other



INTAROS

JERICO
NEXT

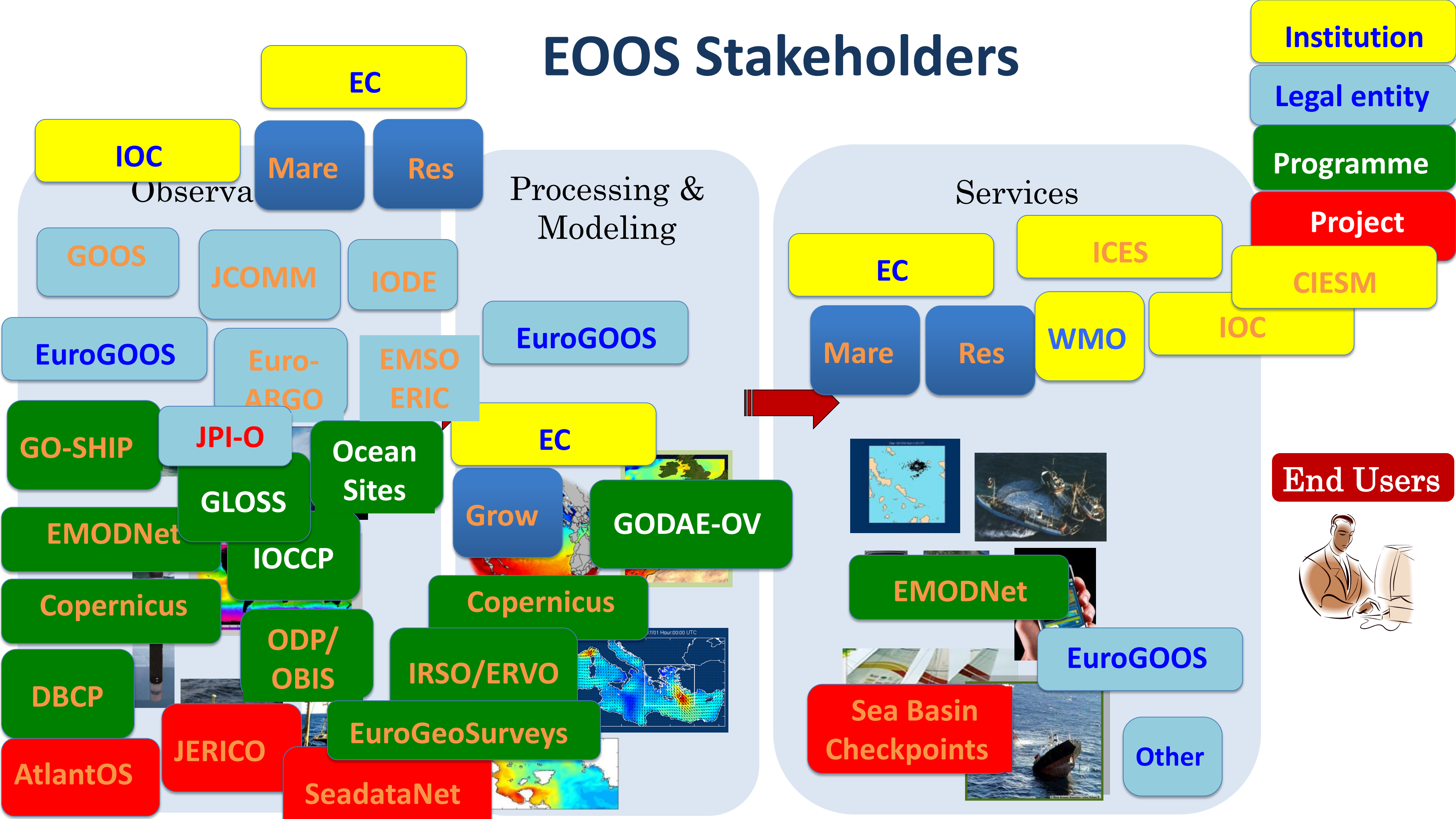
EOOS

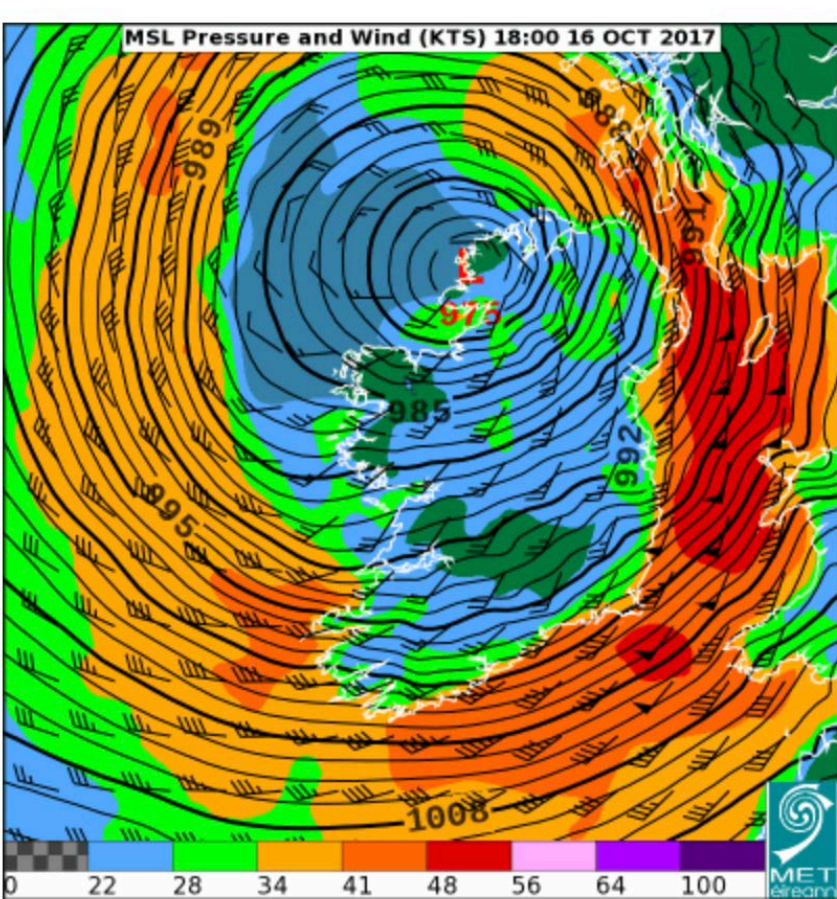
AtlantOS

ODYSSEA

September 8, 2015 to September 8, 2017

EOOS Stakeholders





EOOS: major foci to date

1: Governance and policy context

**7: Pilot demonstrators
Observing system benefits**

2: Requirements for sustained ocean observations in Europe

8: Communication and citizen science

6: Unlocking valuable existing observational data sets not currently shared

3: Observing system: current status and readiness

4: Gap analysis: OSE/OSSE experiments + Seabasin CP/MSP

5: Defining gaps in the bathymetric mapping of the EOOS area

EOOS: alignment with existing activity

**Governance and
policy context**

**SG established
Collaboration with EMB
DG reps on SG
List from JPI-O, EG, EMB**

**Observing system:
current status and
readiness**

**EuroGOOS/GOOS
mapping
AtlantOS D1.3
EMODNET inventory
EEA report**

**AtlantOS WP1 (gaps)
EEA in-situ coordination
(state of play, factsheets)
CMEMS contract (gaps,
agreements)
ROOS knowledge**

**Requirements for sustained
ocean observations in
Europe**

**AtlantOS OSSE/OSE
Report completed under Mercator
contract (DMI)**

**Gap analysis: OSE/OSSE
experiments + Seabasin CP/
MSP**

Sea level observation networks in and around Europe

Challenges
in monitoring increasing
sea level hazards

Note to policymakers
Brussels, April 2017

- Sustainability
- Future plans to apply to all platforms

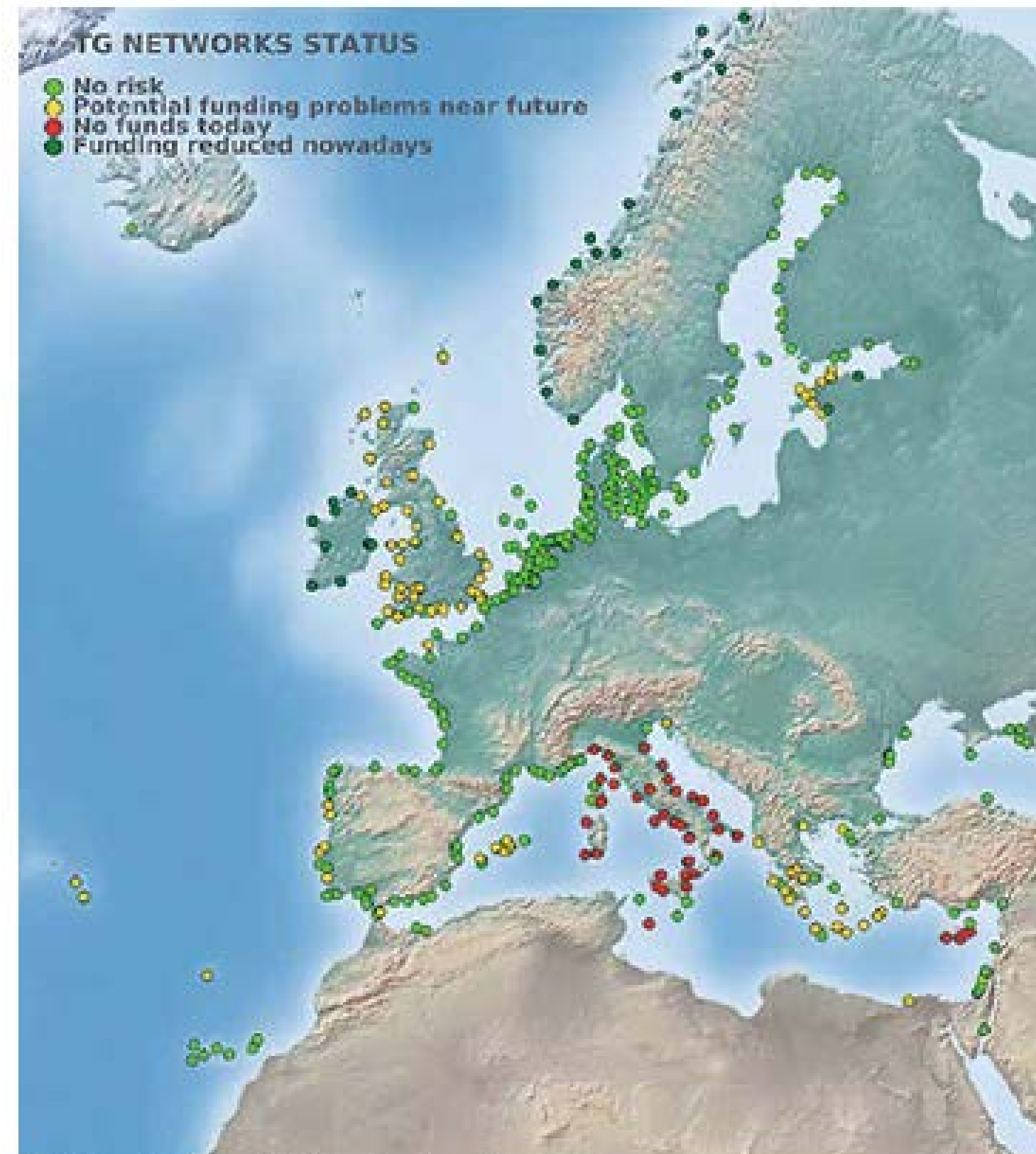


Figure 1: Funding status of tide-gauge stations in the regions of European interest according to the responses from national contacts collected by the EuroGOOS Tide Gauge Task Team in 2016

EOOS: alignment with existing activity

Unlocking
valuable existing
observational
data sets not
currently shared

EMODNET Physics 3 FUND
Data Ingestion call funded

Improvements planned to
Products from EG members
AtlantOS WP8
Planned in INTAROS and
Odyssea

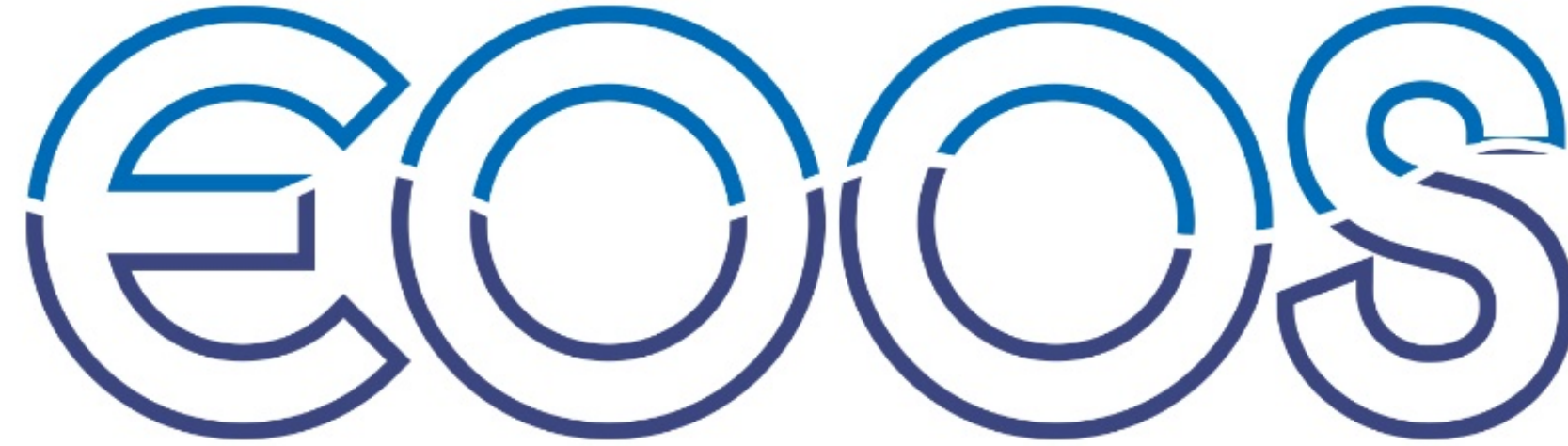
Pilot demonstrators
Observing system benefits

Defining gaps in the
bathymetric mapping of
the EOOS area

EMODNET Bathymetry
EuroGeoSurveys
ASMIWG: deep water focus

Logo approved
Consultation
Webpage roll-out
Parliament event
Communication to members
Continued dialogue with
Stakeholders

Communication and citizen
science



Forum

8 March 2018

The Royal Belgian Academy of Sciences
Brussels

Conference

November 2018

TBD

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European Global Ocean
Observing System

European
MARINE BOARD
Advancing Seas & Oceans Science