EuroGOOS
European Global Ocean Observing System

EuroGOOS ROOS Chairs' reports

EuroGOOS General Assembly
30-31 May 2023

Meeting document O6.1

EuroGOOS
European Global Ocean Observing System

ArcticROOS

EuroGOOS Arctic Regional Ocean Observing System

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Arctic ROOS

EuroGOOS General Assembly
30-31 May 2023

Arctic ROOS updates

Co-Chairs: Anna Nikolopoulos (NPI) and Vidar Lien (IMR)

- Successful online workshop on opportunities and challenges for in-situ ocean observations in the Arctic
  - Four sessions with invited talks and fruitful discussions, over 100 participants

- Facilitated the initiation of an international Arctic GRA design Task Team
  - Roundtable discussions convened at the Arctic Science Summit Week 2023 in Vienna

- Updated MoU signed by members

- General Assembly 3-4 May 2023 in-person @DMI.dk
  - Update from partners and thematic discussions

Planned activities

- Support the OceanPrediction Decade Collaboration Centre
  - Host joint ArcticROOS - OP DCC workshop in fall 2023
  - Arctic regional leader closely tied to ArcticROOS
  - Participation in Steering Group / Expert Groups for the OP DCC Arctic region
- Establish Task Team on in-situ sea ice observations
  - In-situ sea-ice observations currently lacking in Copernicus and EMODnet
- Lead the process of designing a framework for an Arctic GRA
  - Task Team ToR and 18-month timeline established (started April 2023)

Task Team to Advance the Development of an Arctic GRA

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An international task team, initiated by Arctic ROOS, to work on a design for a potential future Arctic GOOS Regional Alliance

Co-Chairs: Jari Haapala (FMI, Finland), Craig Lee (University of Washington, United States)

Members: Nicoletta Ademollo (CNR-ISP, Italy), Maurizio Azzaro (CNR-ISP, Italy), Manuel Bensi (OGS, Italy), Dominique Berod (WMO, Switzerland), Agnieszka Beszczynska-Moeller (IO PAN, Poland), Maria Teresa Bezem (UiB, Norway), Melissa Chierci (IMR, Norway), Cathy Coon (Department of Interior, United States), Maria Hood (MOi, France), Michael Karcher (AWI, Germany), Takashi Kikuchi (JAMSTEC, Japan), Vidar Lien (IMR, Norway), Inga Lips (EuroGOOS, Belgium), Molly McCammon (AOOS, United States), Anna Nikolopoulos (NPI, Norway) Joseph Nolan (EuroGOOS, Belgium), Steffen Olsen (DMI, Denmark), Nicholas Roden (NIVA, Norway), Hanne Sagen (NERSC, Norway), Stein Sandven (NERSC, Norway), Toste Tanhua (GEOMAR, Germany) Jeremy Wilkinson (BAS, United Kingdom), Eun Jin Yang (KOPRI, Republic of Korea)

Objectives:

1. Lead the process to develop a proposal for a potential future Arctic GRA.
2. Ensure wide engagement of relevant rights holders and stakeholders in this process, including representatives of Arctic Indigenous and Local communities and organisations.
3. Prepare for the implementation of the proposed Arctic ocean observing alliance that includes equitable partnerships with Arctic Indigenous Peoples.

The Task Team is initially proposed to last 18 months (April 2023 to October 2024).

First meeting held on 21st April 2023.

Task Team was presented to the GOOS SC in April 2023, with feedback to be addressed before formal endorsement possible as an Arctic Task Team.

Connections to EuroGOOS Strategy

1. Stimulate communities of practice
    - Promote community measurements (citizens, fishermens, tourist ships, VOS)
    - Enhance delivery of real-time observations to the EMODnet
    - Co-develop products with users, for example enhance link to ice services
    - Develop best practices to measure and share data in the polar environment

1. Advocate for coordinated and integrated European ocean observing and operational oceanography
    - Establish workshops and seminars on topics related to the ArcticROOS
    - Form partnerships with large EU projects
    - Facilitate building of joint R&D projects
    - Be active on providing feedback on upcoming calls

Connections to EuroGOOS Strategy

3. Strengthen and expand partnerships

- Be active in developing of the ArcticGOOS (GRA)
- Keep a close dialogue with the AOOS, Canadian OOS, PAG etc. networks
- ArcticROOS members should be active in participation for developing the Atlantic-Arctic DBO (Distributed Biological Observatory) and other large international initiatives
- Expand activities to observe and model physics-biogeochemistry interactions

4. Promote sustainability across the value chain of operational oceanography and ocean observing

- Operational centres like met.no, DMI, FMI will implement new services in operational mode
- Impact and added value for clients of the pilot services should be assessed before implementing those in the Copernicus Marine Service
- Establish an observations system to combine in-situ and satellite data

5. Mobilise the public on the importance of the ocean and oceanographic services

- Provide information to the EuroGOOS office on the Arctic specific topics

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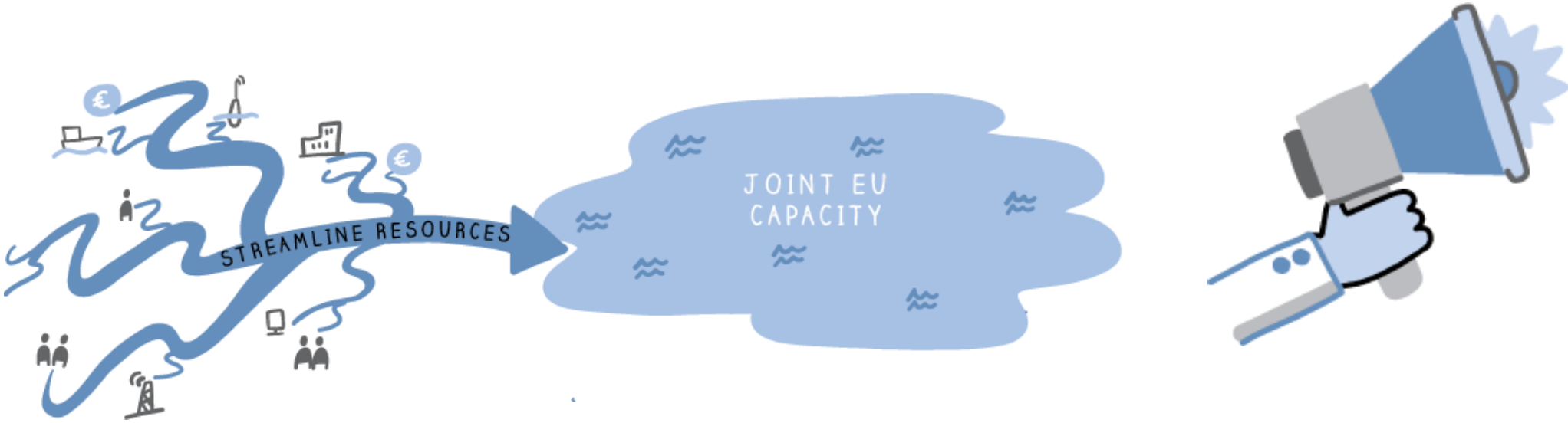

Co-Chairs:

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Vidar Lien (IMR)
vidar.lien@hi.no

EuroGOOS
European Global Ocean Observing System

BOOS

EuroGOOS Baltic Regional Operational Oceanographic System

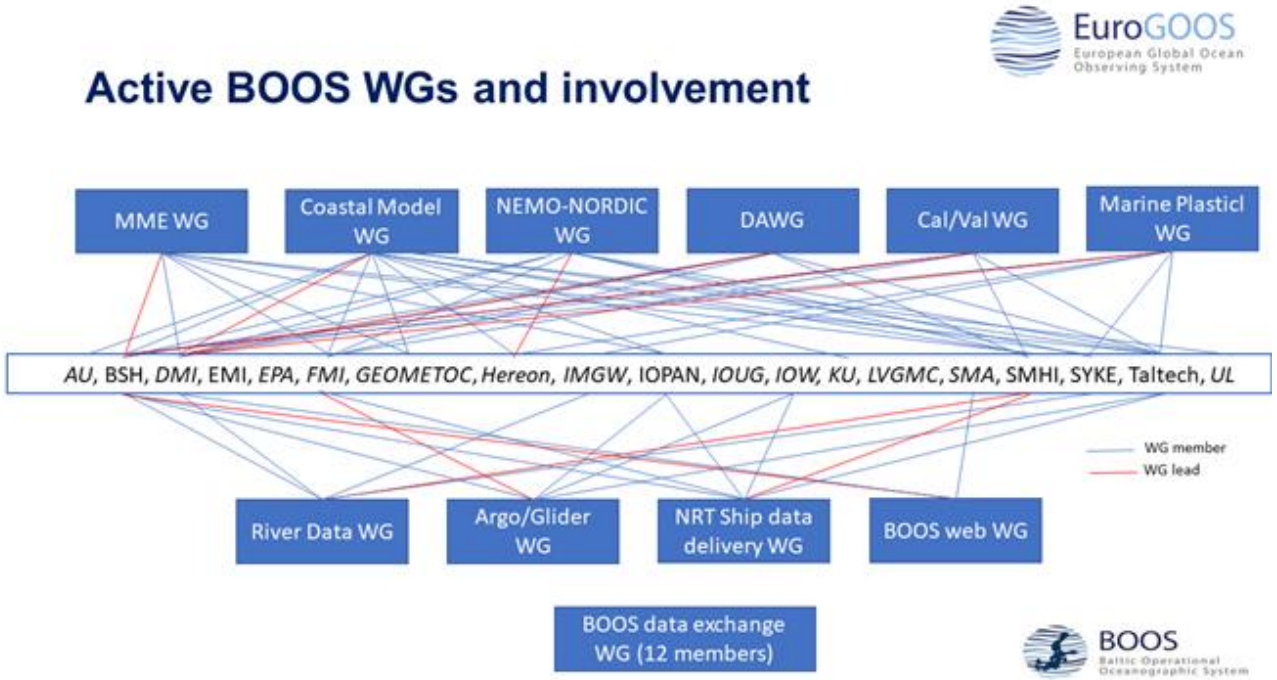
BOOS activities in 2022/23 and plans for 2023/24

EuroGOOS General Assembly
30-31 May 2023

Jun She, Danish Meteorological Institute

On-going BOOS cooperation

- **Research projects**:
  - CMEMS: BALMFC, INSTAC, SST TAC, SI TAC, OCTAC
  - JERICO-S3: DMI, FMI, SMHI, SYKE, TalTech
  - EDITO/OLAMUR: AU, DMI, HEREON, EMI, KLU
- **BOOS Work Groups** (12)
- **Bi/multi-lateral cooperation, e.g.,**
  - DMI-BSH on marine climate service
  - IOPAN-EMI-…Remote sensing cooperation
- **Other cooperation**: HELCOM, CMEMS, EMODnet, EuroArgo,…



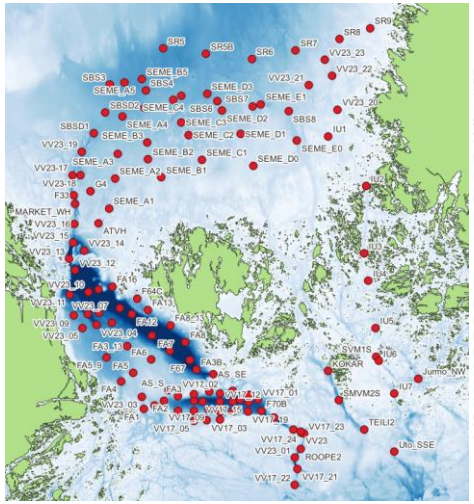
Highlighted features of BOOS cooperation

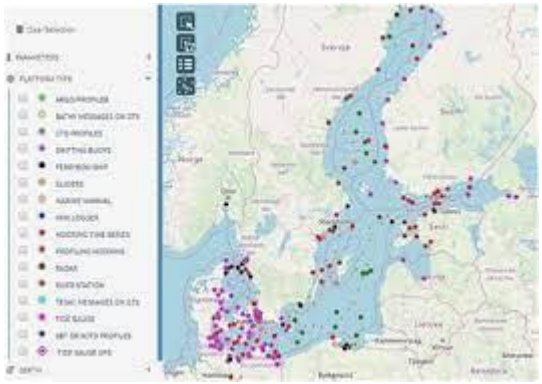
- **Virtual code environment** (github, slack)
  - Data assimilation WG
  - NEMO-Nordic WG
  - Cal/Val WG
- **Real-time echange** of observation and forecast, and **Multi-model ensemble** forecast: DataExWG, MME WG
- **BOOS-CMEMS** (BALMFC, INSTAC) cooperation
  - DA WG, NEMO WG, Cal/Val WG, MME WG, SHIP_DWG
- **BOOS-EMODnet** cooperation: RiverDWG
- **New WGs** on Machine learning and Remote sensing were established

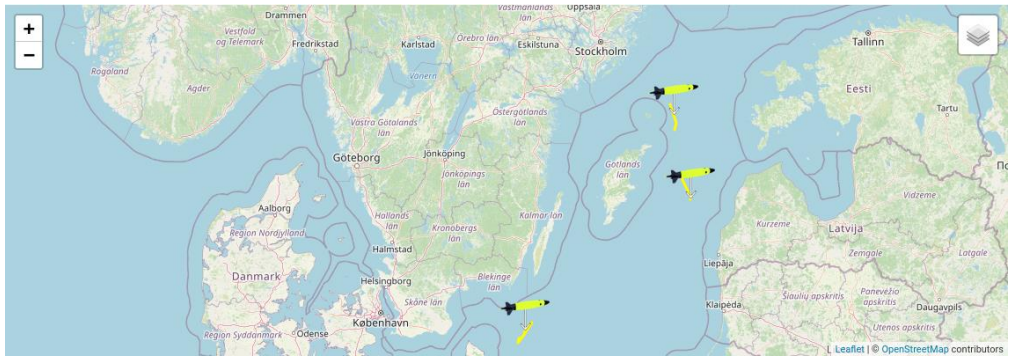
- **Observing:**
  - Private-public partnership: VOTO
  - Near Real Time ship data delivery
  - Shallow water Argo&gliders, bgc argo
- **Implementing seamless earth system approach**
  - Offshore farm impact-resolving modelling
  - Seamless modelling (riverine-estuarial-coastal-open sea, synoptic2climate, PHY2BIO)
  - Nature-based solution: AU, DMI, HEREON…
  - Towards Baltic Digital Twin: on-demand modelling, relocatable models, ML WG…
  - Optimizing in-situ observing system
- **National marine climate services:** BSH, DMI, UL…

Argo & Glider WG

- **Collaborative activities**:
  - Deployments and recovery
  - Planning joint missions
  - Providing NRT glider data for users
  - Developing DMQC methods
  - Legal aspects - Deploying to or crossing EEZ
  - sharing best practices about operating in shallow and seasonally ice-covered areas
  - widening the user community
- **DMQC Workshop** May 2023, Sopot
- **Shallow water glider** development

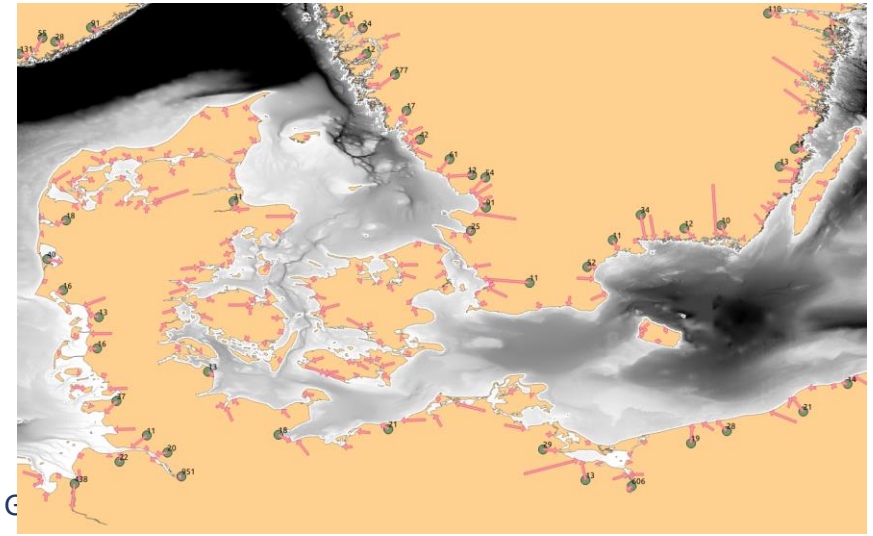


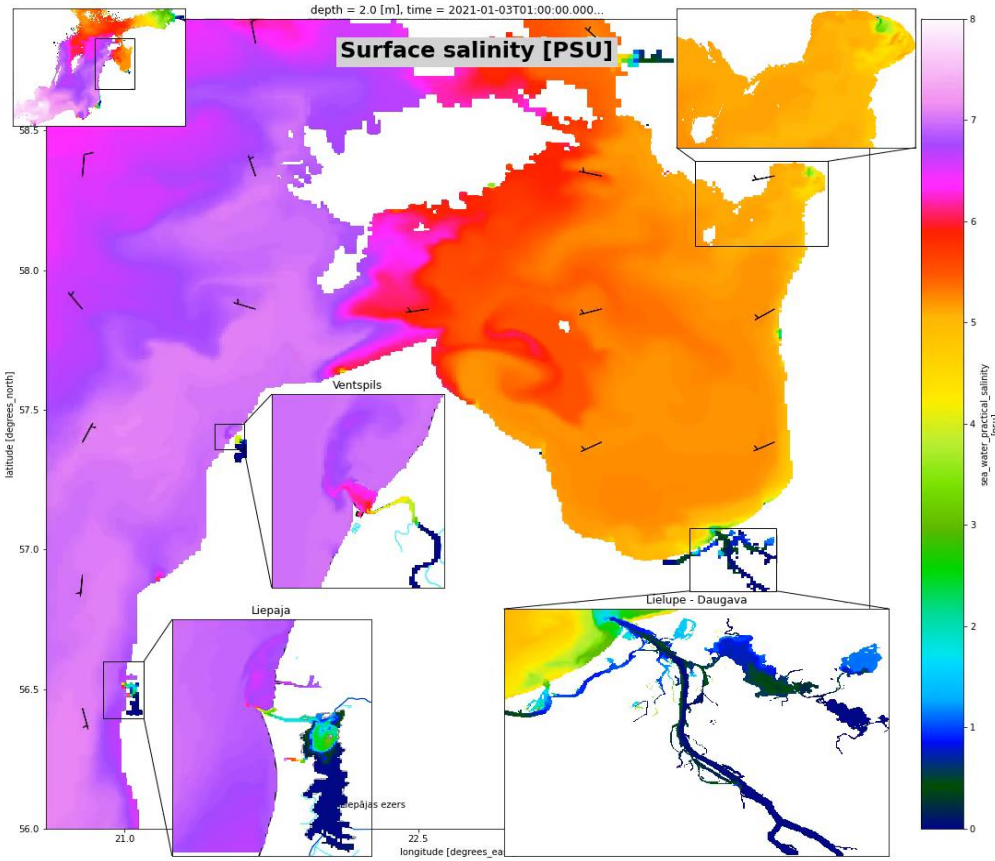




Coastal-Estuary modelling WG

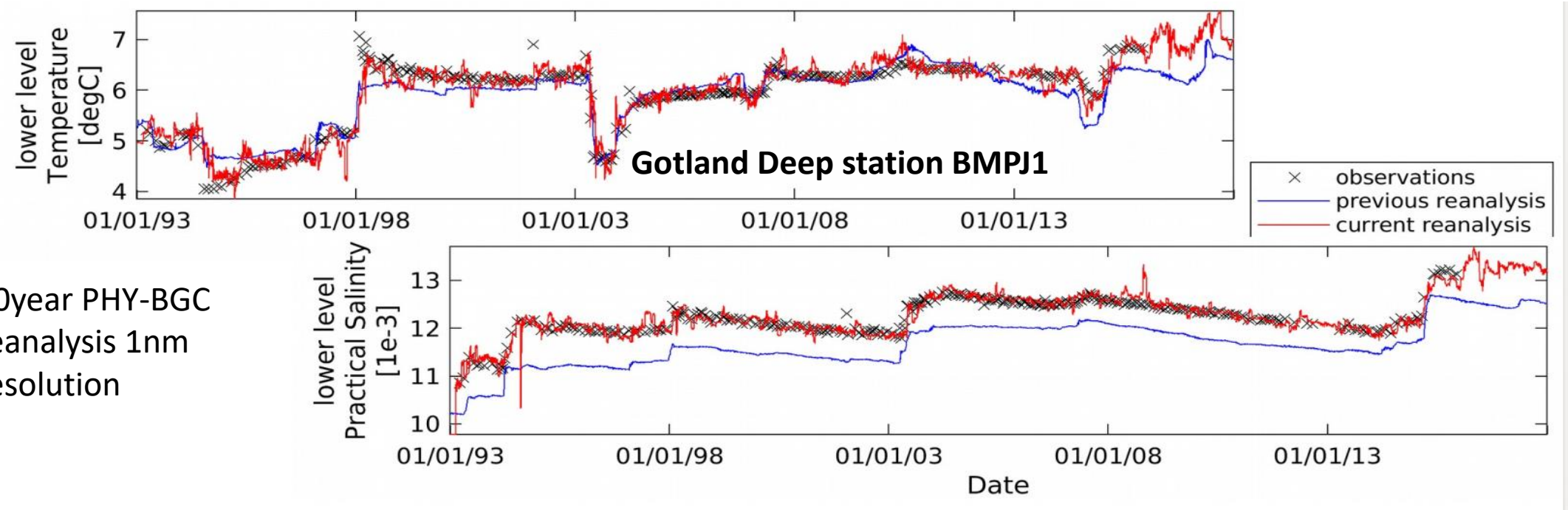
- **National systems**, DITO, Lighthouse, CMEMS coastal service
- **On-demand modelling** (open source, relocatable HBM, Auto-model configuration)
- **Seamless modelling**
- **Impact-resolving modelling**
- **CMWG Workshop** 2022





Data assimilation WG

- **Virtual coding** environment
- Coupled data assimilation framework **PDAF-OMI** applied to NEMO-ERGOM
- **T/S and Sea ice DA** is operational
- A new 1nm resolution 30y PHY-BGC **reanalysis** was released
- **OSEs**: Argo/mooring/glider data were assimilated in Interim reanalysis



30year PHY-BGC reanalysis 1nm resolution

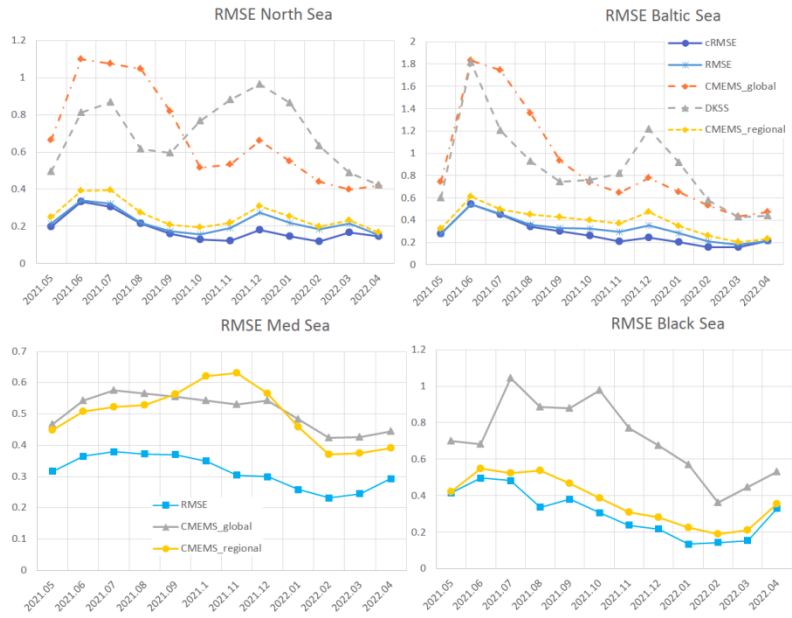
Marine plastic WG

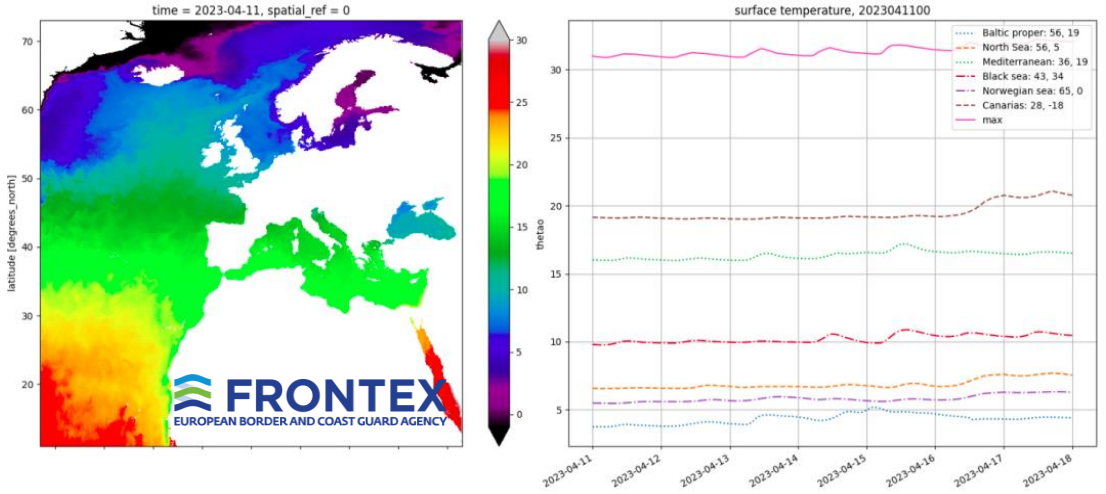
- Regular plastic monitoring cruises in IMWM, SYKE and TalTech; Invovlement in MSFD, HELCOM, ICES Marine litter WG/TGs
- Developing **new modelling capacities**: resuspension, Lagrangian modelling
- Improving **MP automatic sampling** instruments (TalTech)
- **MPWG Workshop** 2022
- **Make joint publications**

- Publications
  - Christensen et al.(2023). Simulating transport and distribuion of marine macro-plastic in the Baltic Sea. PloS one 18 (1), e0280644.
  - Frishfelds et al. (2022). Transport of Microplastics from the Daugava Estuary to the Open Sea. Front. Mar. Sci. 9:886775. doi: 10.3389/fmars.2022.886775
  - Mishra et al. (2022). Spatiotemporal Variability of Microplastics in the Eastern Baltic Sea. Frontiers in Marine Science, 9. DOI:10.3389/fmars.
  - Murawski et al. (2022). Modelling drift and fate of microplastics in the Baltic Sea. Front. Mar. Sci. 9:886295. doi:10.3389/fmars.2022.886295
  - She et al. (2022). Uncertainty and Consistency Assessment in Multiple Microplastic Observation Datasets in the Baltic Sea. Front. Mar. Sci. 9:886357.
  - She et al.(2023). Developing Realistic Models for Assessing Marine Plastic Pollution in Semi-Enclosed Seas. Oceanography. 36(1), p54-57.

Multi-model Ensemble (MME) WG

- **An aggregated MME forecast system for FRONTEX** (DMI)
  - Method: weighted MME forecast
  - Coverage: European Seas
  - Input data: CMEMS global & reginal forecasts, DMI & CMCC forecast (SST)
  - Operational service for FRONTEX
- Frishfelds et al. (2023). Aggregating Sea Surface Hydrodynamic Forecasts From Multi-Models for European Seas. TransNav, DOI: 10.12716/1001.16.

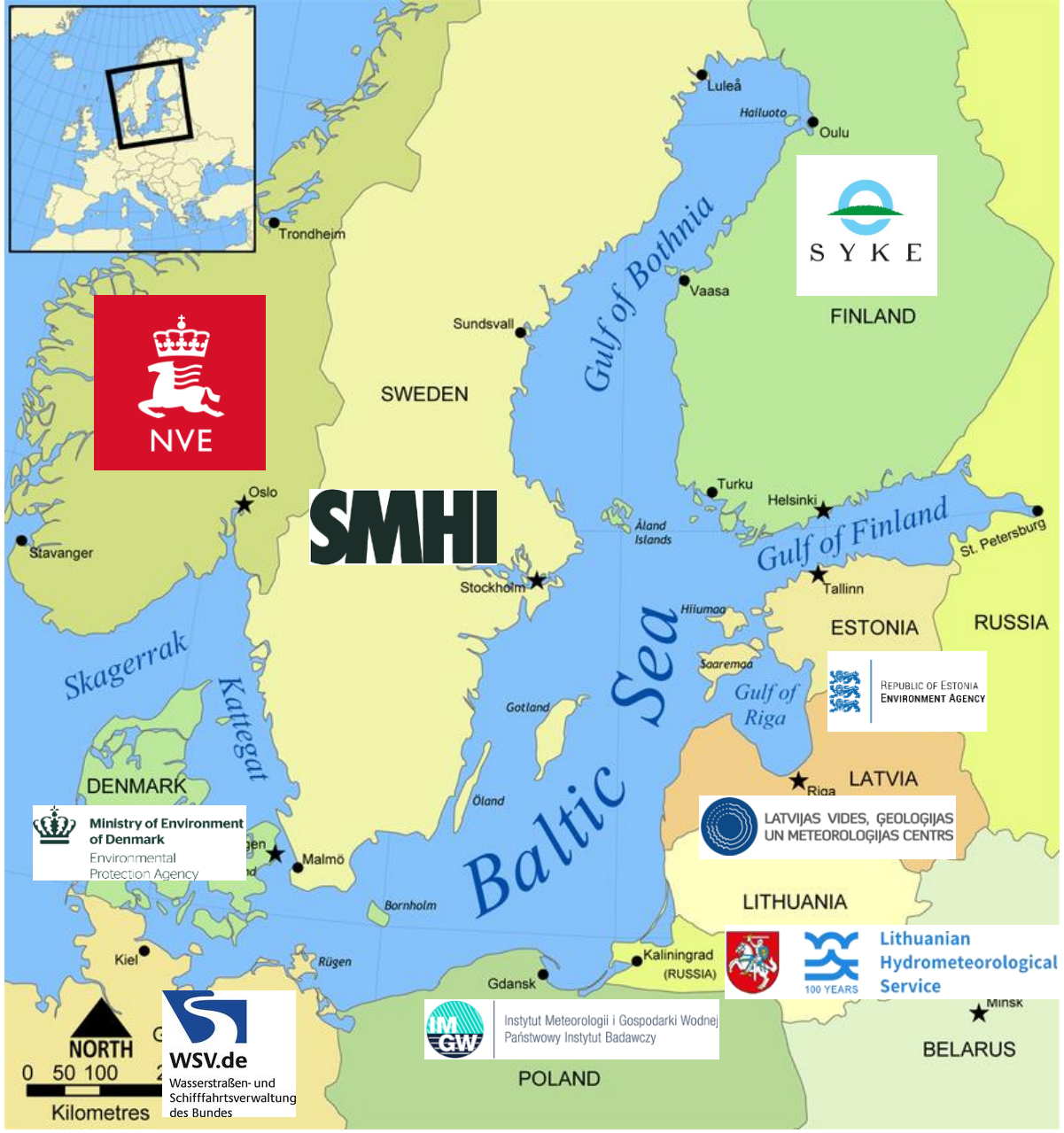




BOOS-NOOS, BOOS-BALMFC

BOOS-EMODnet RiverData WG: Status

Country	Operational	Constraints
Denmark	✓	
Estonia	✘	NRT only water levels
Finland	✘	Support needed
Germany	✓	
Latvia	✘	Support needed (only images)
Lithuania	✘	Support needed (only images)
Norway	✓	
Poland	✓	Stations being currently added
Russia	✘	?
Sweden	✓	



SHIP_DWG: NRT data from CTD monitoring cruises

- SMHI has set up the collection and data management for receiving CTD-profiles in near real time
- Data are immediately fetched, QC'd and delivered to Copernicus Marine (in NRT) and hence EMODnet

- **Estonian** data are already connected (fully automatic to speed up the process), **Finland** has just started (May 2023) to deliver and others on the way (**Poland**, **Denmark**, **Germany**…)

Start sending CTD-profiles from your cruises either in near real time (preferably) from the ship or in partly delayed mode from after the cruise to:

ftp.smhi.se
Contact Johanna, johanna.linders@smhi.se, to set up a dedicated folder

Machine learning in BOOS

- **Kraft et al.** (2022, **SYKE, FMI**) Towards operational phytoplankton recognition with automated high-throughput imaging, near-real-time data processing, and convolutional neural networks. Front. Mar. Sci. 9:867695. doi: 10.3389/fmars.2022.867695
- **Raudsepp and Maljutenko (TalTech, 2022):** A method for assessment of the general circulation model quality using the K-means clustering algorithm: a case study with GETM v2.5, GMD, 15, 535–551.
- **Westerlund (FMI, 2023):** A data-driven approach to rapidly estimate seasonal thermocline depth in the Northern Baltic Sea
- **Bellinghausen (Hereon,2023):** Short-term prediction of extreme sea-level at the Baltic Sea coast by Random Forests
- **Su (DMI, 2023):** Predict the monthly mean sea level with different machine learning method
- **A new ML WG** was established in BOOS AM 2023, led by Jian Su, DMI.

Updated BOOS website: BOOS Working Groups (implemented by EuroGOOS)

http://www.boos.org/working-groups/

New projects, proposals

- **EDITO Model_Lab:** develop on-demand coastal models, DMI, HEREON
- **OLAMUR**: assessing impacts of co-located aquaculture and wind farms, AU, FMI, HEREON, EMI, KLU
- **BlueMissionBANOS** Supporting the Mission Ocean Lighthouse in the Baltic and North Sea: IOPAN…
- **NECCTON**: Developing next generation CMEMS ecological model, BSH
- **FOCCUS proposal**: CMEMS Coastal Service, HEREON, DMI

Meetings

- DAWG/NEMOWG/Cal/valWG weekly meetings
- CMWG Workshop, Dec. 2022
- MPWG workshop, Dec. 2022
- Argo/Glider WG data quality control workshop, 3-4 May 2022
- BOOS-EMODnet River Data Workshop, 27 April 2023
- BOOS-EuroGOOS meeting on Web update
- BOOS WG cooperation meeting, 9 May 2023
- BOOS Scientific Workshop, 10 May 2023
- BOOS Annual Meeting, 14 December 2022
- BOOS Annual meeting, 11 May 2023

BOOS Scientific Workshop, 10 May 2023, FMI hybrid

BOOS 2023/24 plans & priorities

- **Observations:**
  - enhance interaction between BOOS-EMODnet on RiverData
  - enhance private-public monitoring: VOTO in OLAMUR & Argo/Glider WG
- **Data management**
  - Data QC for Argo/Glider WG
  - SHIP Data NRT delivery WG: to make it happen
- **Integrate model-observations**
  - demonstrate values and assess impacts of various ocean observing systems
- **Enhance cross-cutting cooperation**
  - BOOS relationship with national UNDOS Committtee and regional UNDOS (BSSC)
  - BOOS interactions with EuroGOOS CoastalWG, SAWG
  - BOOS-BALMFC/INSTAC cooperation
- **Modelling**
  - Implement seamless earth system approach (on-demand, open source, relocatable, impact-resolving, seamless modelling, MME etc).
  - High resolution models for BSHC port service
- Strengthen research in emerging areas with new WGs, eg ML WG
- Extend BOOS cooperation in remote sensing are via a new RSWG
- Improve BOOS website, together with EuroGOOS

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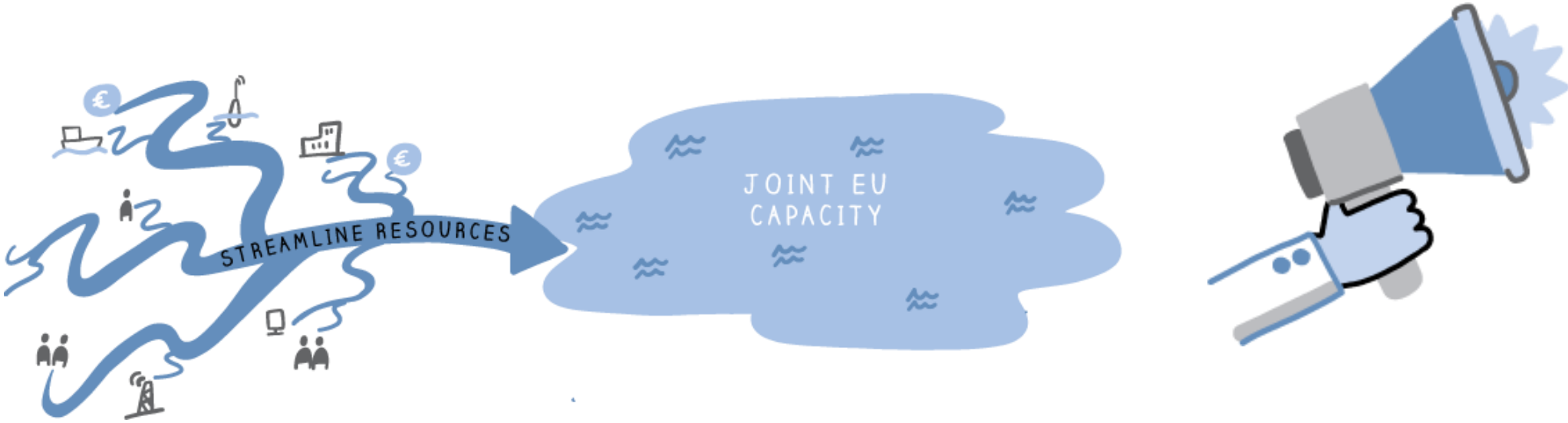

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IBIROOS

EuroGOOS Ireland Biscay Iberia
Regional Operational Oceanographic System

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IBI-ROOS
EuroGOOS Ireland-Biscay-Iberia
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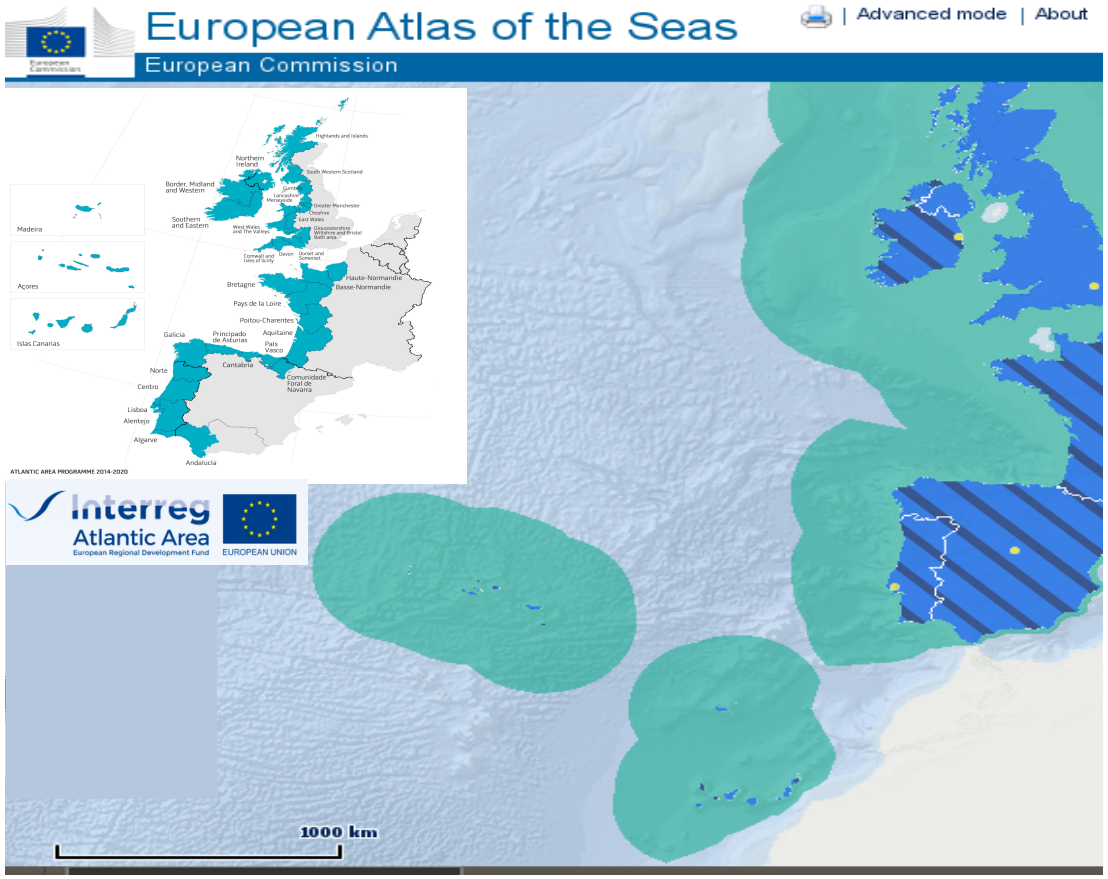
STRENGTHEN and expand partnerships



17 members, 5 countries (Portugal, Spain, France, Ireland, UK)

- Success in consolidating cooperation (Atlantic coastal observatories) extending IBIROOS activities to the Macaronesia (Canary, Azores and Madeira)
- Cooperation with UK institutes intensified and new observers
- We are preparing an updated MoU

Meetings

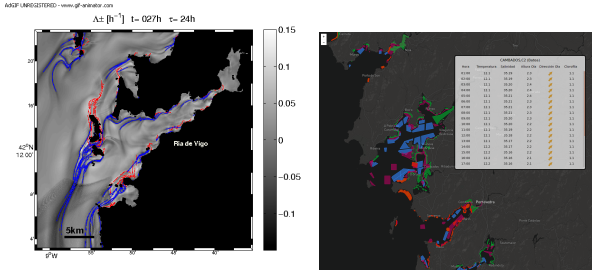
- 2019 IBI meeting in Plymouth (together with Mycoast meeting)
- 29 Nov-1 Dec 2022, Santiago de Compostela, IBIROOS Annual meeting together with MyCOAST
- 14-16 June 2023, Lisbon, IBIROOS Annual meeting together with MyCOAST meeting

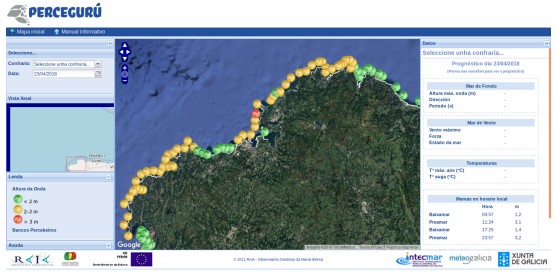
IBIROOS showcases the impact of regional cooperation in maintenance and development of sustained observing systems and operational products in the European Atlantic Area (shelf, slope, open ocean, islands)

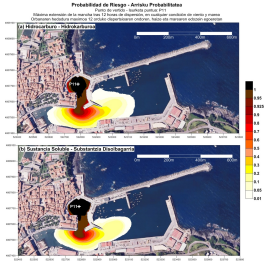
STIMULATE communities of practices

EuroGOOS
European Global Ocean Observing System

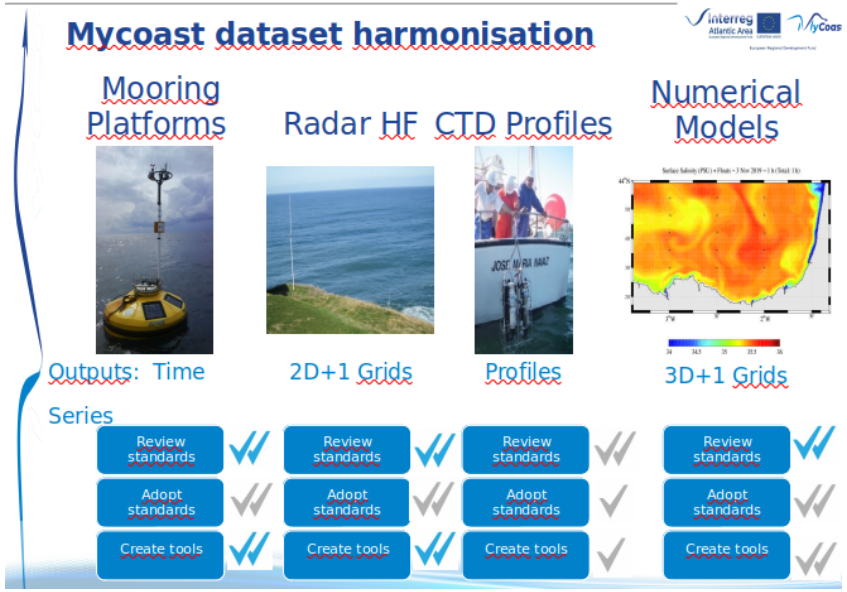
Review of existing tools for different coastal risks



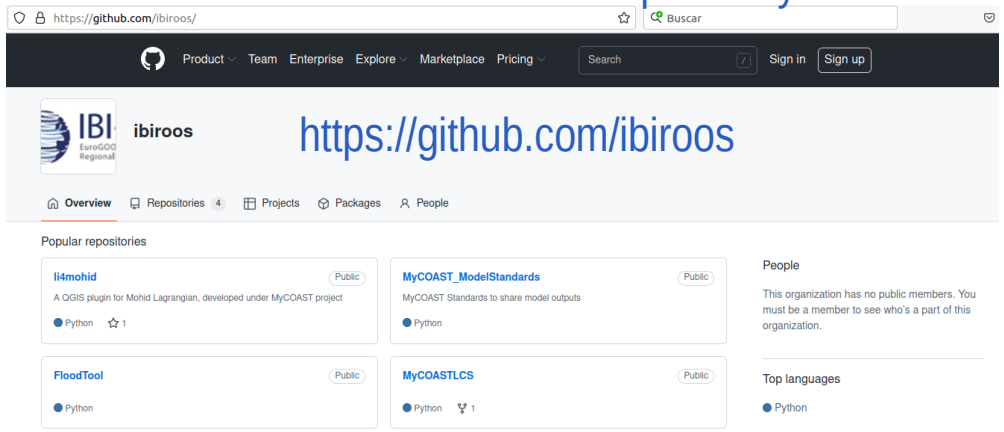




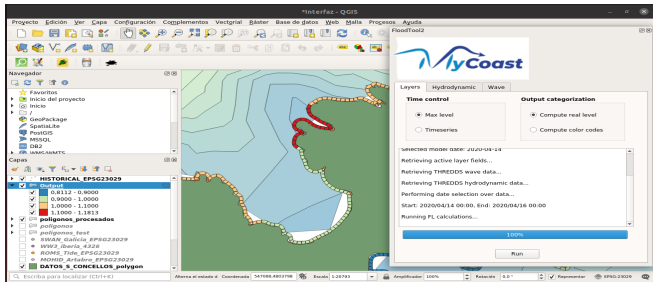
Selection of MyCoast tools
Co-design and Co-development

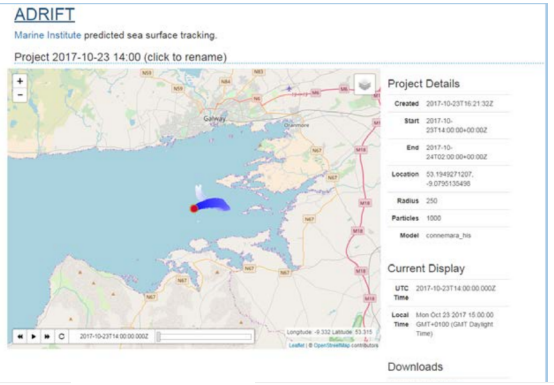


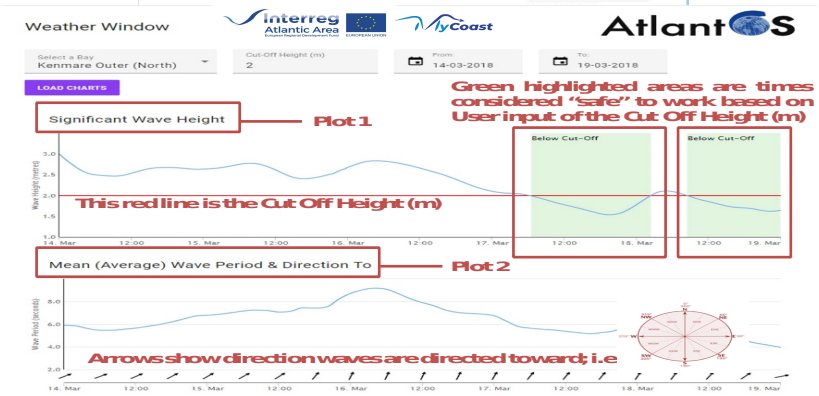
Standards and interoperability



Pilot demonstrations along the Atlantic Area
Co-production. AA Capitalization call







Interreg Atlantic Area
European Regional Development Fund
EUROPEAN UNION
MyCoast

Co-developed relocatable standardised tools for tackling coastal risks demonstrated along the Atlantic Area

Coastal Risk	MyCoast Tool	Models
Flood	Flood tool	ROMS (tide), SWAN (wave)
Pollution	MyCoastLCS	FVCOM, MOHID, ROMS, NEMO, TELEMAC
Search and rescue	ADRIFT	ROMS, FVCOM
HNS & OILSPILL Forecast	LI4MOHID	MOHID, FVCOM, NEMO, ROMS
Maritime safety tool	Weather Window tool	SWAN, WW3

ADVOCATE for coordinated and integrated EU observing and operational system

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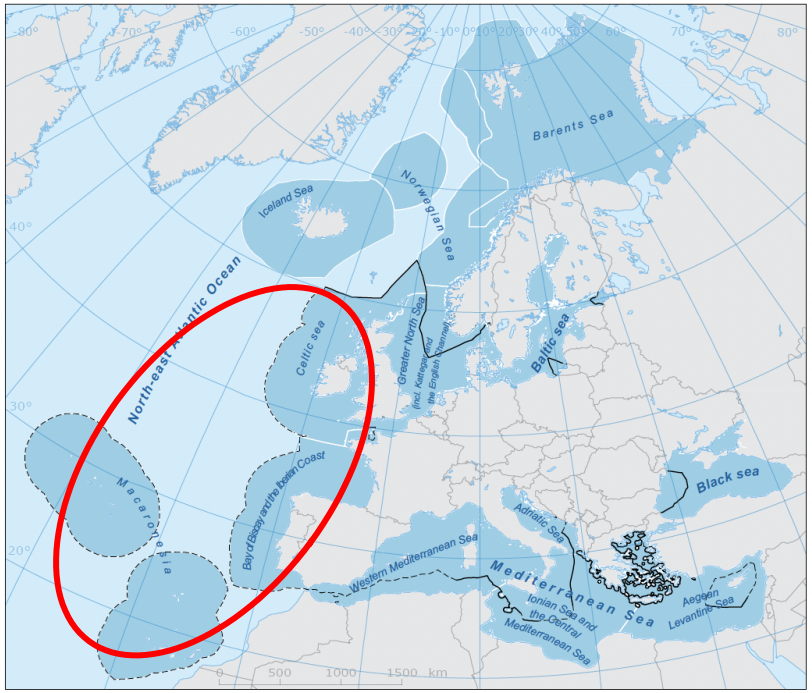

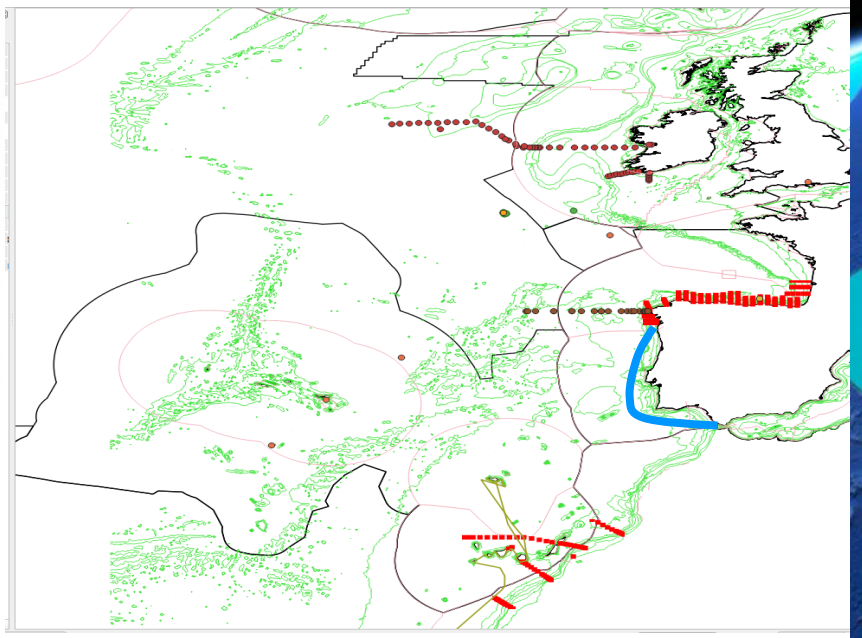

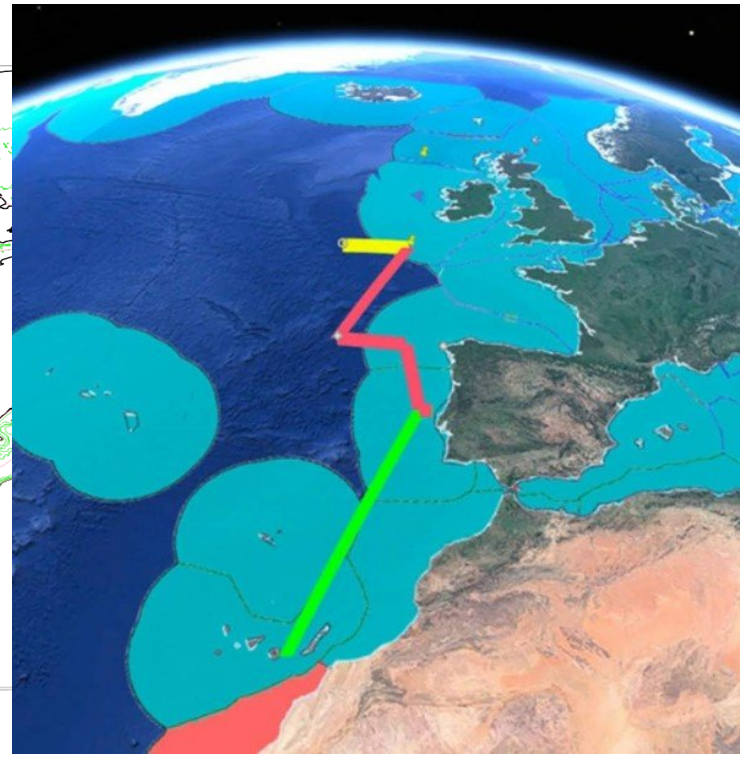

Monitoring cruises
MFSD implementation
Offshore pelagic ecosystem
Novel methodologies, SOPs, Best practises

#PAAnoramic Glider mission
Winter-spring 2023: AA capitalization call

https://www.ifado.eu/

PROMOTE sustainability across the value chain of operational oceanography and ocean observing

Interreg Atlantic Area European Regional Development Fund EUROPEAN UNION
iFADO

STIMULATE communities of practices

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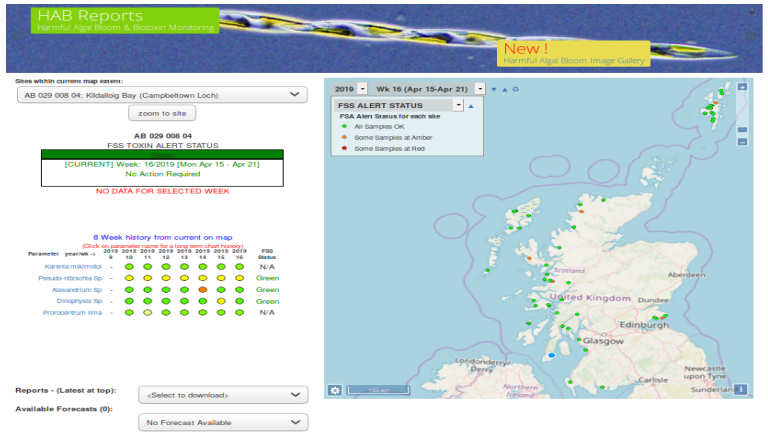
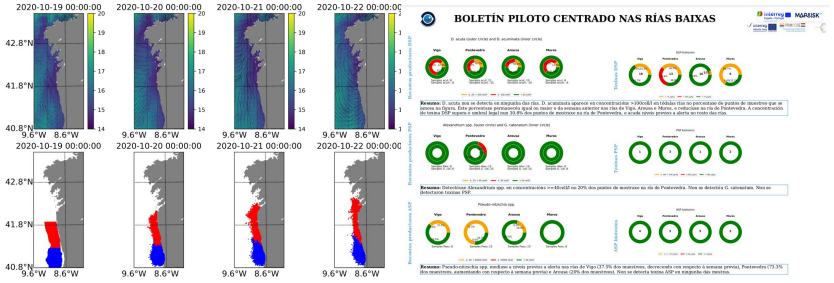
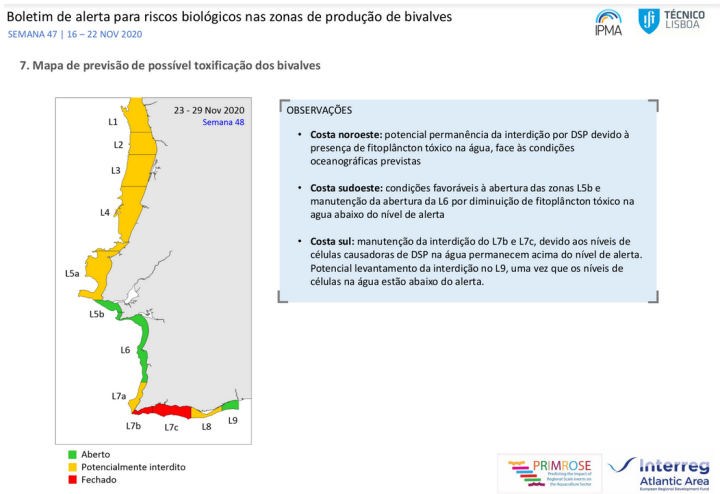
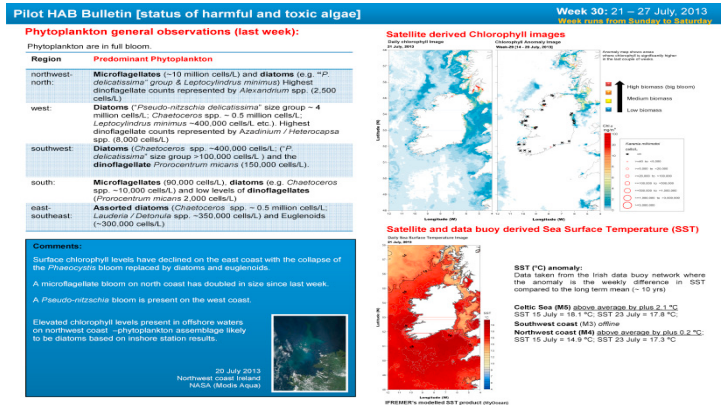
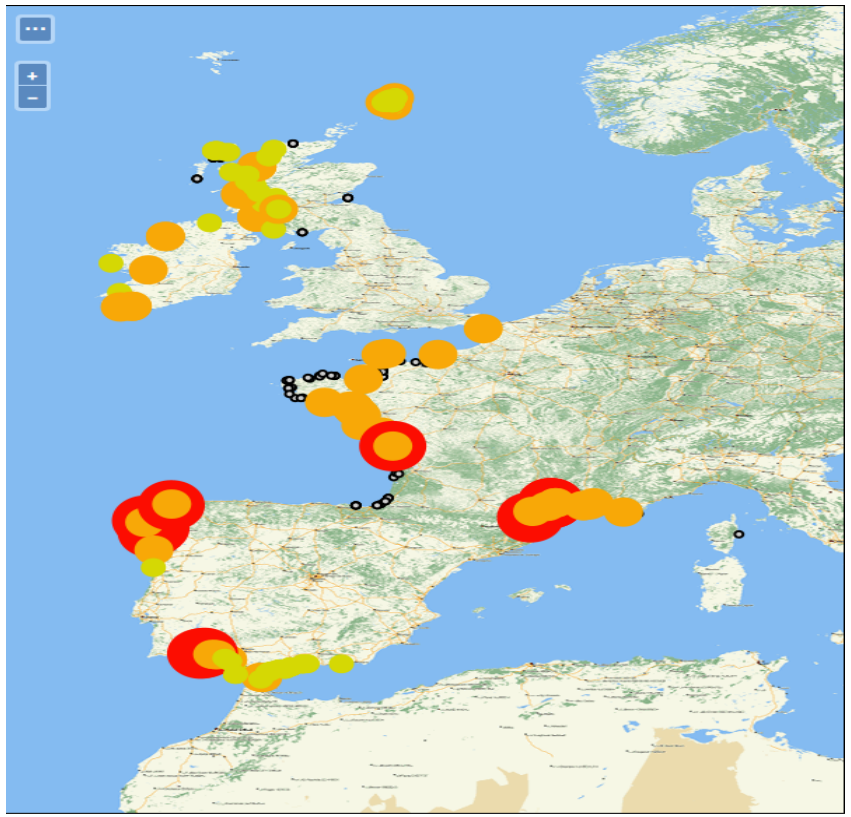










Dinophysis acuminata September 2020

Data sharing, Standards and interoperability

HAB early warning http://www.shellfish-safety.eu/

EuroGOOS
European Global Ocean Observing System

Chairs:
Manuel Ruiz Villarreal (IEO-CSIC)
Julien Mader (AZTI)

manuel.ruiz@ieo.csic.es
jmader@azti.es

EuroGOOS
European Global Ocean Observing System

MonGOOS

EuroGOOS
European Global Ocean Observing System

MonGOOS

EuroGOOS General Assembly
30-31 May 2023

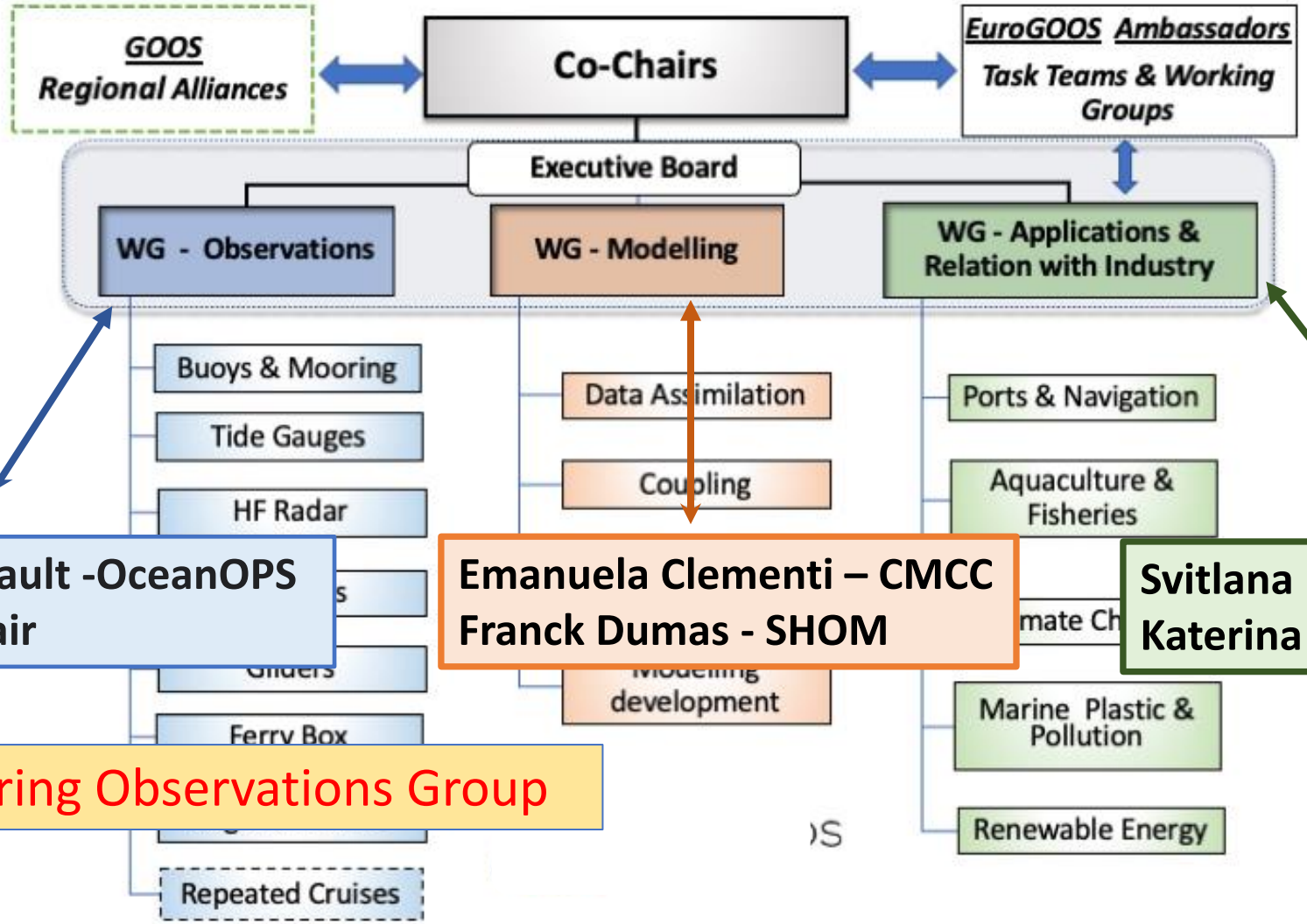
Strenghten and Stimulate collaborations

<u>34 partners</u> (48 partners before) have already signed the new MOA

From 12 countries:
Spain, France, Portugal, Italy, Greece, Slovenia, Croatia, Montenegro, Morocco, Israel, Cyprus and Malta.

- Egypt and Turkey have not sign the new MoA

MonGOOS Organization and Activities



Orens De Fommervault -OceanOPS co-chair

Emanuela Clementi – CMCC
Franck Dumas - SHOM

Svitlana Liubartseva – CMCC
Katerina Spanoudaki - FORTH

Missing Co-chairing Observations Group

Main Management Outcomes and Activities:

Management → Several Outcomes

EuroGOOS
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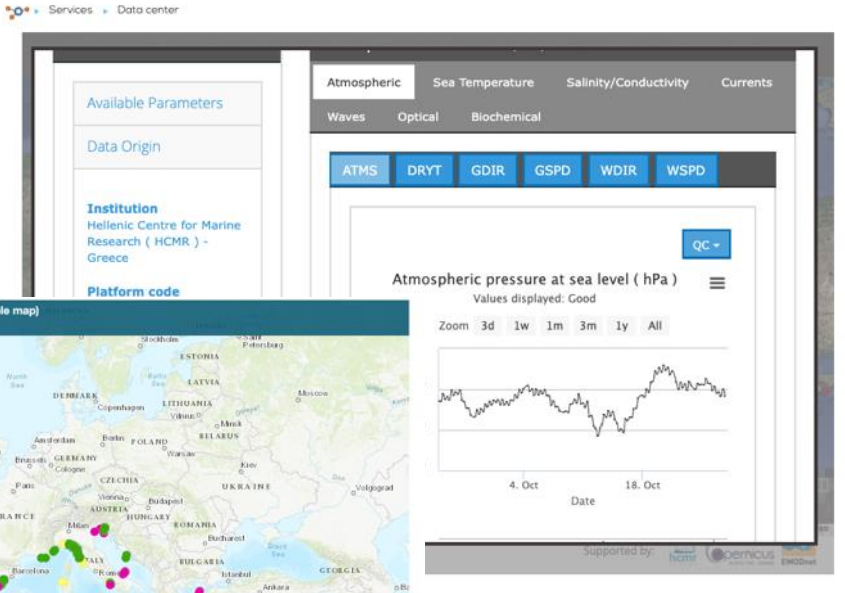
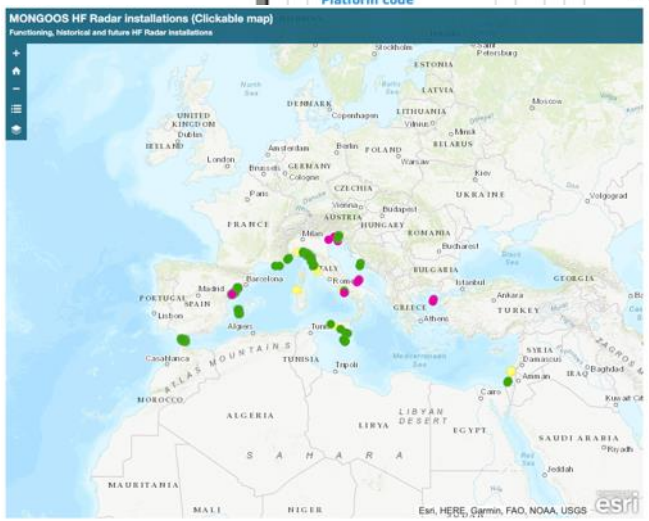
Website update (@eurogoos.eu):

- ✓ update member's site information
- ✓ update the code of the database link
- ✓ New section and link to Repeated Mediterranean Cruises
- ✓ .....

Close collaboration with EuroGOOS





still to be done:

- ❖ data providers information

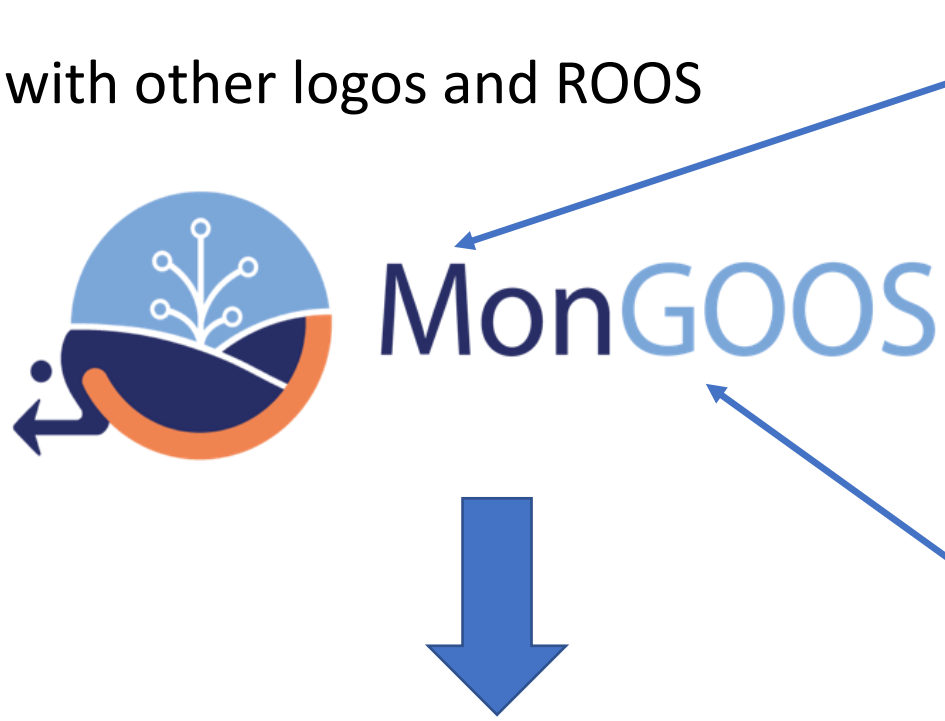
MonGOOS

Main Management Outcomes and Activities - Management

EuroGOOS
European Global Ocean Observing System

New logo !!!!

Style Unification with other logos and ROOS

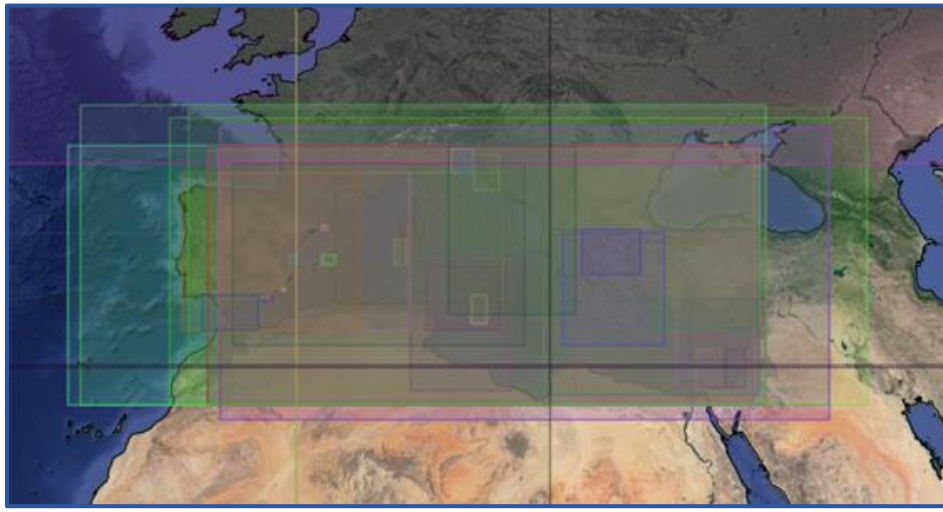


Mediterranean **o**ceanographic **n**etwork for the **G**lobal **O**cean **O**bserving System

Main Management Outcomes and Activities - Modelling

Collaboration with OceanPredict DCC

- ToR between MERCATOR /DCC and MonGOOS
- Contribution to the preparation of ATLAS together with MERCATOR
- Preparation of the first regional team meeting in the framework of the Ocean Predict DCC



Update of the Modelling database (working in progress)

- Collaboration with all the model providers in the Mediterranean Sea

Improvements of our institutional connections

Meetings during the reporting period

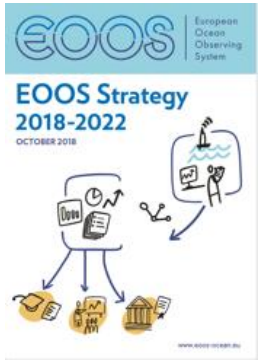
Active participation in several meetings for the presentation of MonGOOS

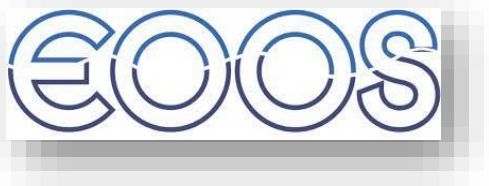
- EGU Conference, 24 -28 April 2023
- EuroGOOS TT meeting 4-5 April 2023
- Global Regional Alliances (GRAs) Council Meetings: 14 February 2023, , 6 July 2022
- Chair session of the Mediterranean at the DCC launch event, 11 - 12 January 2023
- GRA Council on Observing Together, 21 November 2022
- Workshop on collaboration between GMES and Africa GOOS, October 2022
- Kick-off event for the SCINMEET Ocean Decade program for the Mediterranean region, July 2022
- SHAREMED Project Expert Meeting, 1 June 2022

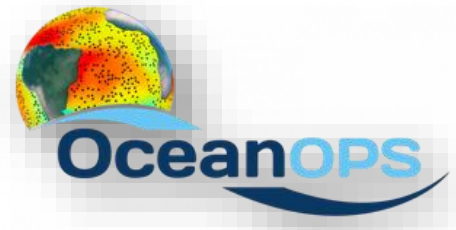
Main Management Outcomes (from the GA)

Being active as a community at ocean decade, and other future initiatives:

- *Sharemed Interreg project*
- *Ocean Predict DCC*
- *ScinMEET*
  - …







  - Strengthen the collaboration with OceanOps

Increase the dialog with EOOS at national and regional level and viceversa
Align at least part of the actions of the strategy plan between ROOS at regional level
Improve the connection with users and stakeholders

  - Open Access – Need to brake barriers, especially with industry (To set up a system and afterwards look for users)
  - Important to capitalize on projects (current + past)

Synergies and Strengthening scientific collaboration among partners

EuroGOOS
European Global Ocean Observing System

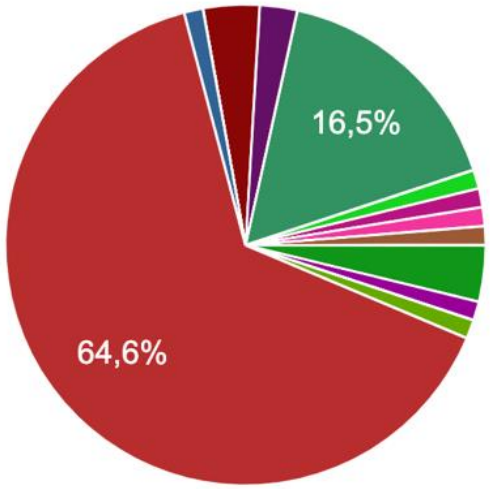
MonGOOS Extraordinary Assembly, 18 May, 2022

V. Cardin renewal mandate for 3 years (2022-2024) and election of new chair: Karim Hilmi

WORKSHOP & GA

Florence, 22-23/24 November 2022

12 Countries Participation
43 Presentations (Oral + Poster)



The importance of scales and uncertainties in ocean transport: Physical and biogeochemical interactions in the Mediterranean Sea

Organized by LAMMA, OGS, CMCC, ISPRA

EGU Session on:

Advances in understanding of the multi-scale and multi-disciplinary dynamics of the Southern European Seas (Mediterranean and Black Sea) - April 24– 28, 2023

Conveners: V. Cardin, A. Capet, A. Orfila, K. Schroeder

35 Presentations (Oral + Poster)

MonGOOS

Main Gaps and bottlenecks

EuroGOOS
European Global Ocean Observing System

✓To boost the participation of “sleeping partners”

✓ Communication between partners and within their institutions & dissemination of information

✓ Communication with stakeholders is generally lacking

✓ Consolidate MONGOOS presence on EuroGOOS Board; encourage participation of "ambassadors" at WG and TT

Nimit, K. (2021)

✓ Appointment of WG chairs to promote all activities

(new chairs might restart this activity)

MonGOOS

Main Gaps and bottlenecks

- Gap between EU and non-EU countries in terms of data density, policy and availability
- Not enough biogeochemical observations
- Almost no data close to river mouths (runoff, but also salinity and nutrients) – collaboration with DANUBIUS ERIC
- Need of observational data (specific campaigns) at straits
- Existing network mainly funded by national research funds and long term in situ observations is at a risk
- International collaborative framework exists but coordination and synergies must be strengthened
- Communities are too much disconnected

Nimit, K. (2021)

Main priority areas (2023-2024)

Cooperation

- Update information on forecast models within MonGOOS (website) according to the results of ATLAS (IT web-tool developed by MERCATOR)
- Start building future participation in the Regional Focal Point for the Mediterranean and Black Seas - Coastal Predict
- Start of cooperation with INFO /RAC, PlanBleu
- Preparation of a joint paper describing the modeling capabilities of MonGOOS (Mediterranean Sea)
- Knowledge exchange between Europe and Africa --Seamless Horizon 2020 project - Mediterranean Sea products
- Connection with EuroGO- SHIP - Participation in Euroship annual meeting,

Science based:

- Further advances in scientific understanding → Transmed ship cruise proposal
- Promote visibility and recognition of services
- Improving the usability of data

Management: MonGOOS DataBase

- ❑ Inventory of Oceanographic platforms
- ❑ Enhancing the Collaboration with EuroGOOS - Ambassadors

Next planned meetings (2023-2024)

- **June 2023** - First Regional Team Meeting in the framework

- **MonGOOS Workshop and GA**

When ? ------→ November 14 – 16,

Where? Tangier, Morocco

Hosted by the Université Abdelmalek Essaadi

First time in an African Med Country since MonGOOS was stablished

Dedicated session to present the Mediterranean activities in the framework of DCC

Applied session (hands-on) to apply products developed in the SeamLESS project

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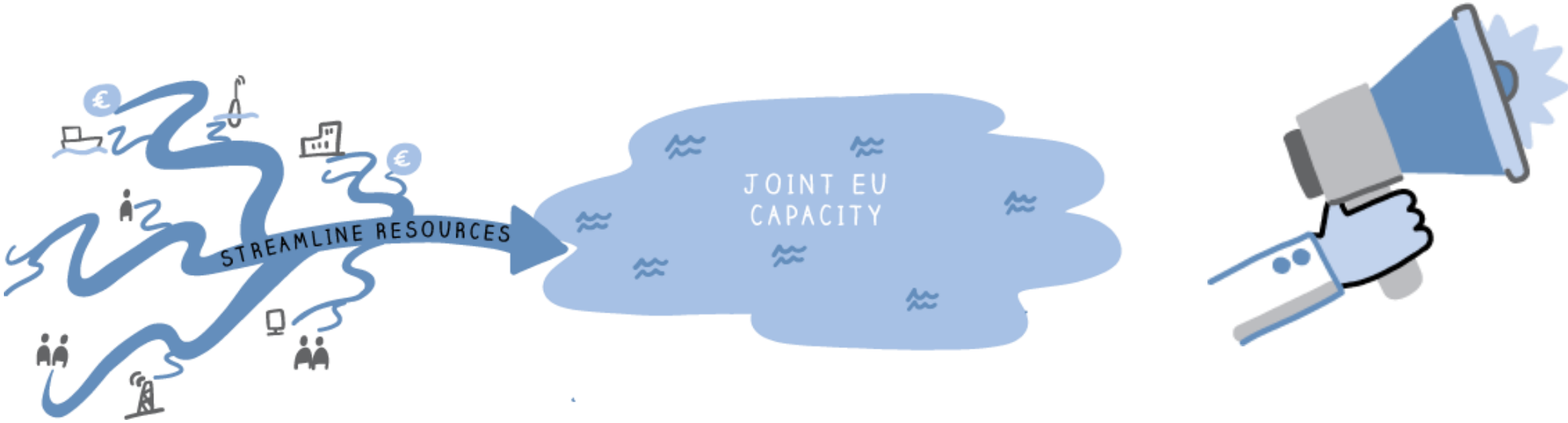


Vanessa Cardin Chair,
Karim Hilm co-chair

vcardin@ogs.it

EuroGOOS
European Global Ocean Observing System

NOOS

EuroGOOS North West European Shelf Operational Oceanographic System

EuroGOOS
European Global Ocean Observing System

NOOS

EuroGOOS General Assembly
30-31 May 2023

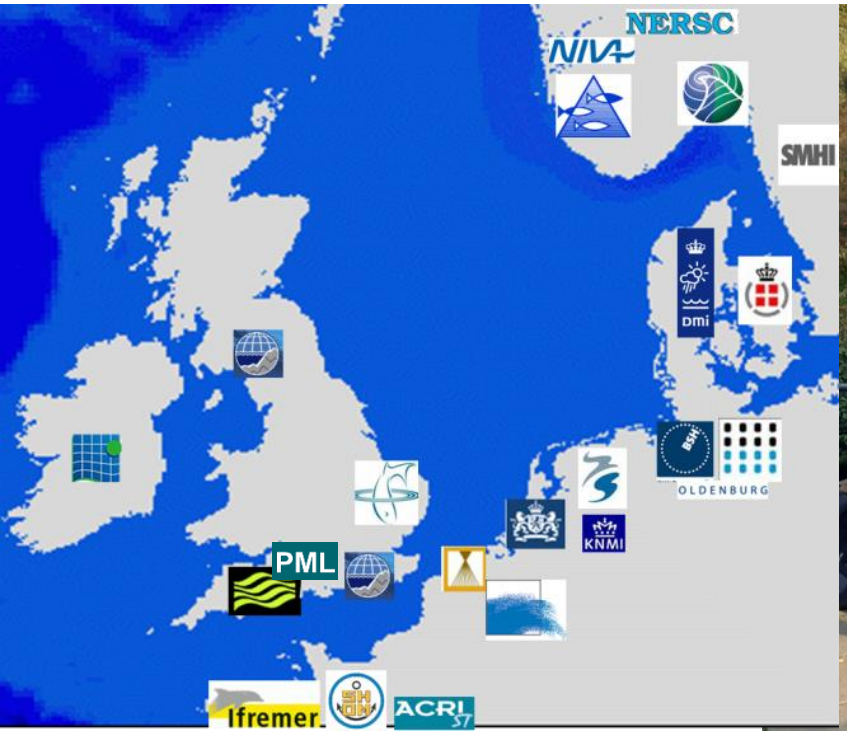
NOOS
EuroGOOS North West European Shelf Operational Oceanographic System

NOOS: a ROOS, a network of Institutes & a network of people !

EuroGOOS
European Global Ocean Observing System

NOOS is a network of 23 governmental agencies and research institutions

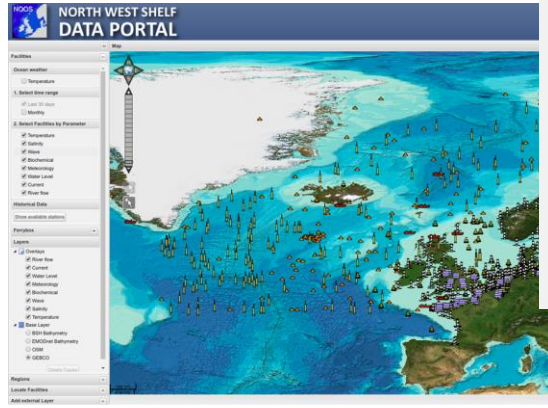
- From the 9 countries bordering the NWS
- Active in operational oceanography
- **Willing to operate real-time operational data, products and services**
- For the whole NWS and its Atlantic margin

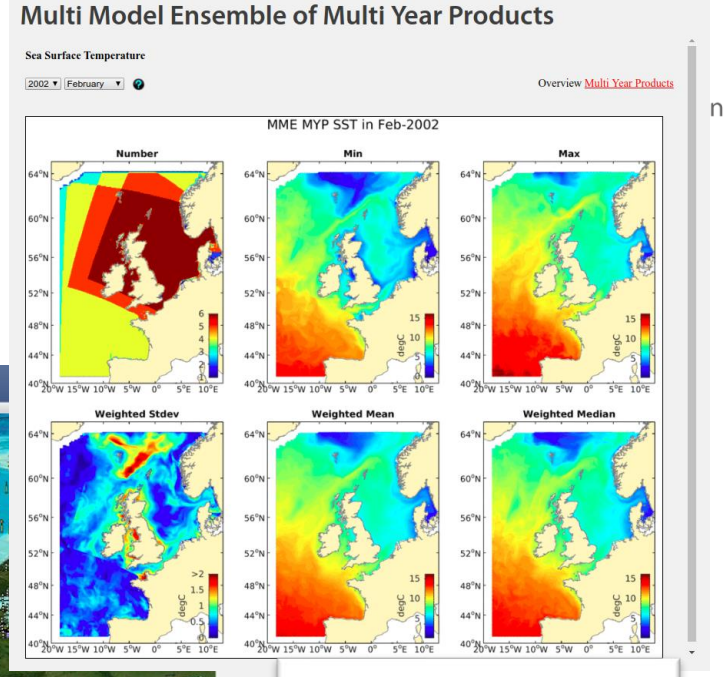


NOOS
EuroGOOS North West European Shelf Operational Oceanographic System

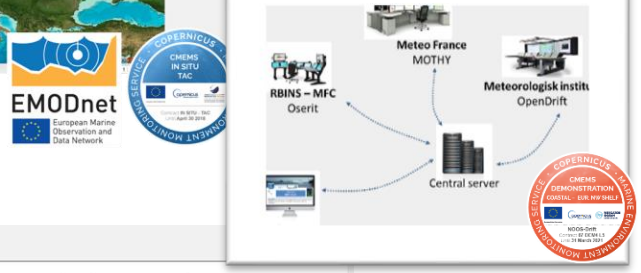
20+ years of active in-kind collaborations

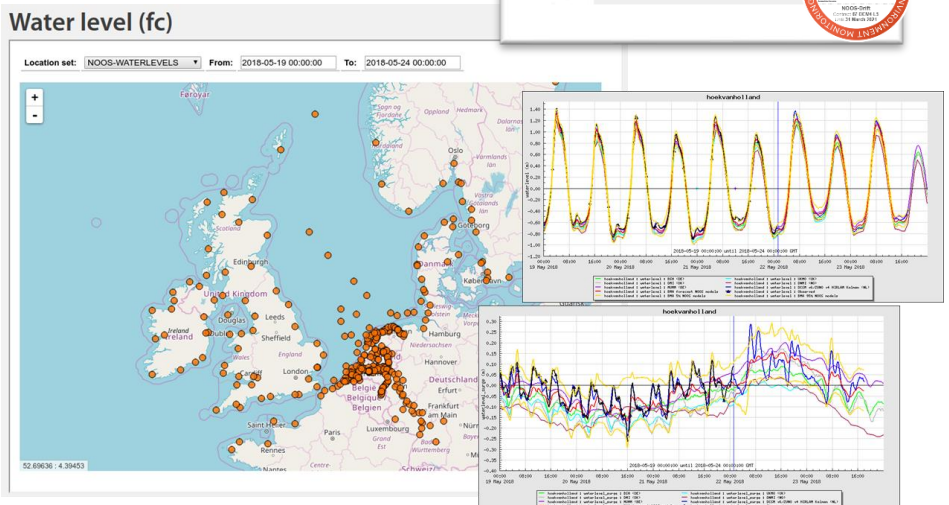
Sharing inspiring ideas & innovation





Back office work to





- Data portal,
- Storm surge & waves BMA forecast
- Multi-models ensemble forecast & reanalysis
- NOOS-Drift, a multi-models ensemble system to assess and improve drift forecast accuracy

Contributing to pan European structuring initiatives

[CMEMS, Copernicus Coastal Service, JERICO, EMODNET, EOOS, CoastPredict, Green Deal…]

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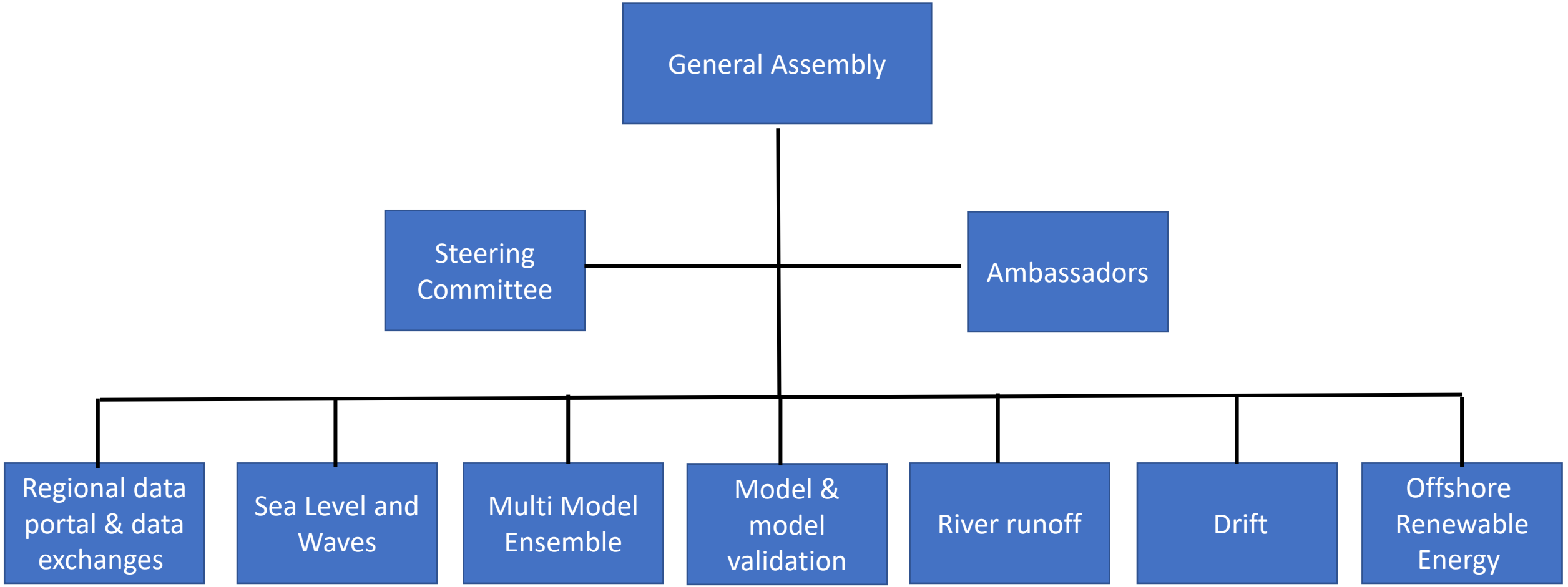

http://noos.eurogoos.eu/

NOOS
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Highlights 2022-2023

- NOOS annual meeting @Rotterdam, 14-16 Sept 2022
  Reconnecting with members after 2 years of pandemic
  Connecting with I-STORM, intl network of storm surge barrier

- ORE: A proposal for a new OSPAR WG on MSFD D7 (RWS, RBINS, BSH, SHOM)

- NOOS-Drift system in a test for a new SAR service of EMSA (‘23-’24)

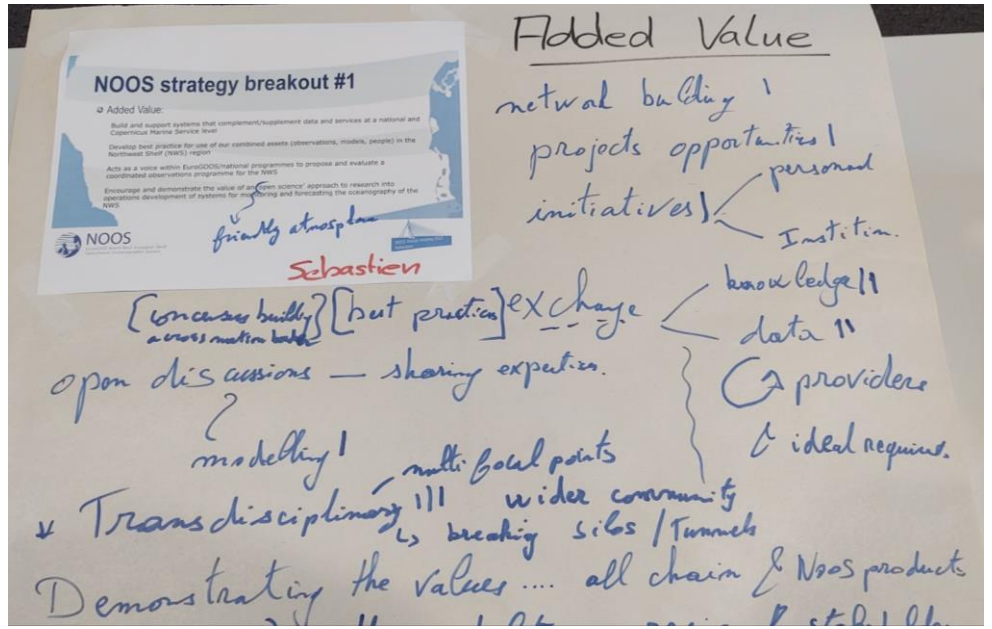
- Reactivating WGs : Half of the WGs have met at least once

- Extending and consolidating NOOS members basis:
  Contacts with Met Eireaan and NORCE Research Center

- NOOS strategy & NOOS MoU

NOOS Strategy document

- Objective : a 15-pages document to present ourselves internally and externally
- Methodology :
  - ‘19: first brainstorming with members
  - ‘20-’21 : Pandemy
  - ‘22 : world café around 4 themes
    - NOOS added value
    - Needs
    - Gaps, SWOT
    - Focus topics
  - ‘22-’23 : Steering Committee to draft the document



EuroGOOS
European Global Ocean Observing System

Vision : Sustain Ocean Observing Systems and operational oceanography services that benefit the European Society

Mission : To cooperate in the development and implementation of sustained and coordinated operational oceanography across the NWS region

(Fully aligned with EuroGOOS)

NOOS
EuroGOOS North West European Shelf Operational Oceanographic System

EuroGOOS
European Global Ocean Observing System

Objective 1

Cooperate as a NOOS community of experts

Objective 2

Improve operational oceanographic data and information services

Objective 3

Build together NOOS community products & services

Objective 4

Support European partners and networks

(Links EuroGOOS S01, SO2, SO3 and SO4)

NOOS
EuroGOOS North West European Shelf Operational Oceanographic System

Bottlenecks

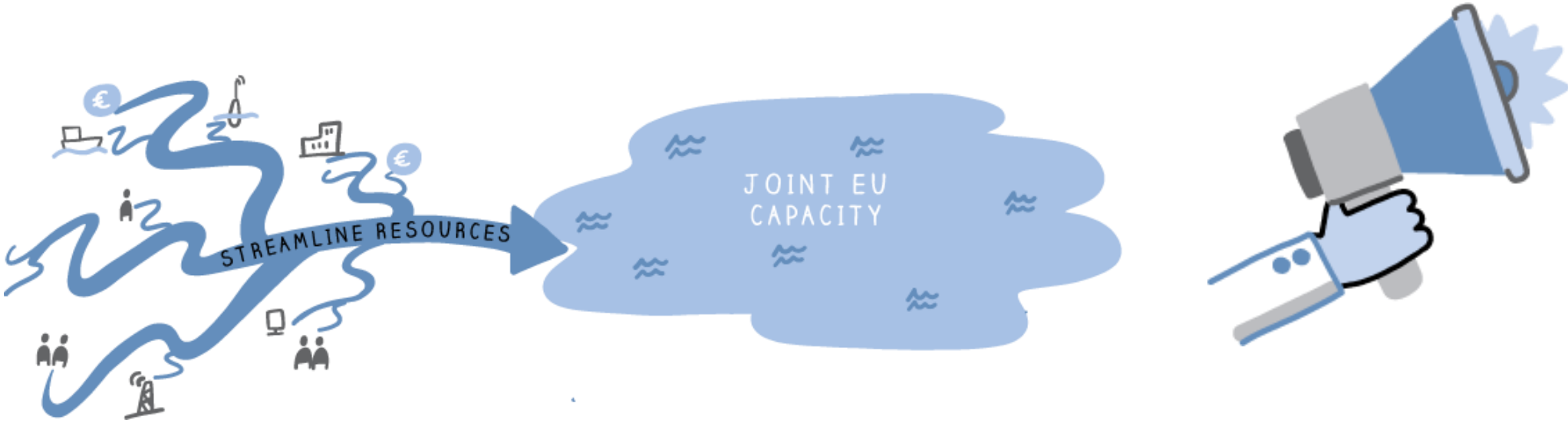
- Erosion of NOOS leadership in strategic initiatives:
  - CMEMS NWS-MFC future more than unclear and uncertain
  - No involvement in ECFAS
  - Not consulted in European Digital Twin(s) of the Ocean
  - No direct involvement in UN Ocean Decade initiatives

  => Need more interaction with the board.

- Lack of funding and resources
  - The greatest difficulty to initiate projects based on NOOS partnership

EuroGOOS
European Global Ocean Observing System

NOOS
EuroGOOS North West European Shelf Operational Oceanographic System



S. Legrand

slegrand@naturalsciences.be

http://noos.eurogoos.be/

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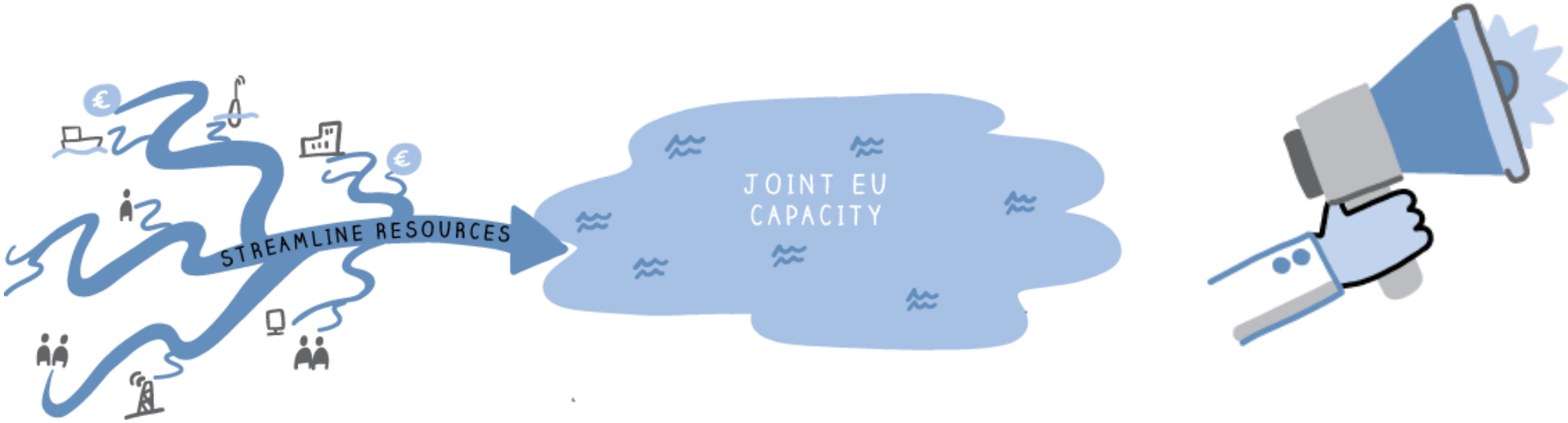

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