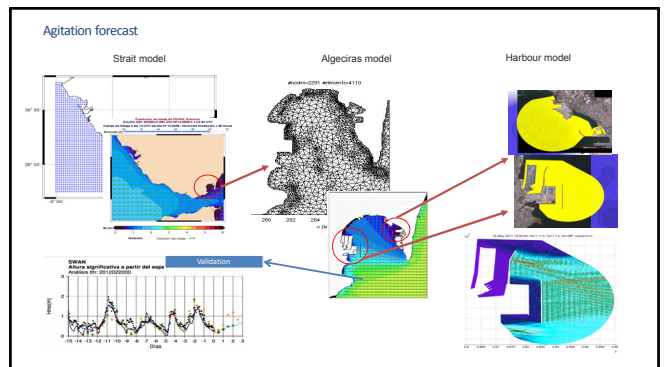
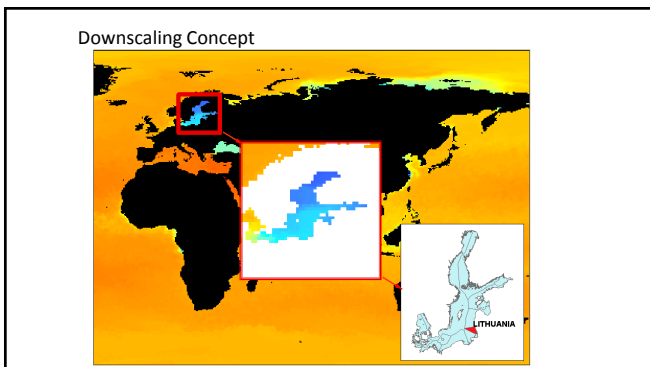
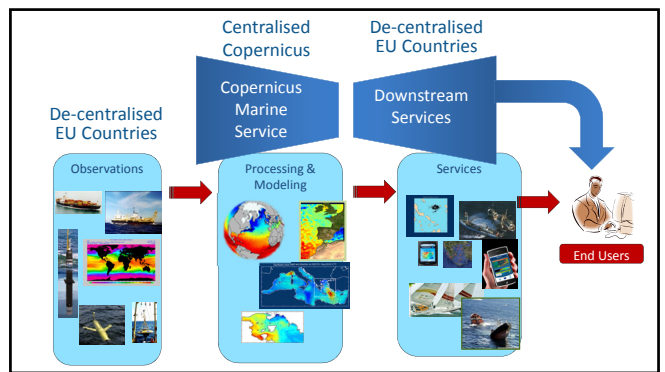
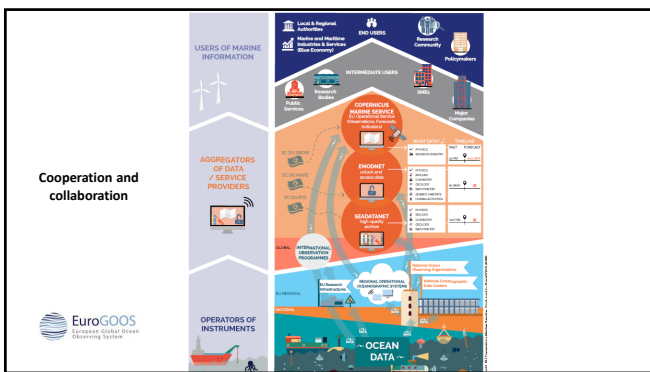
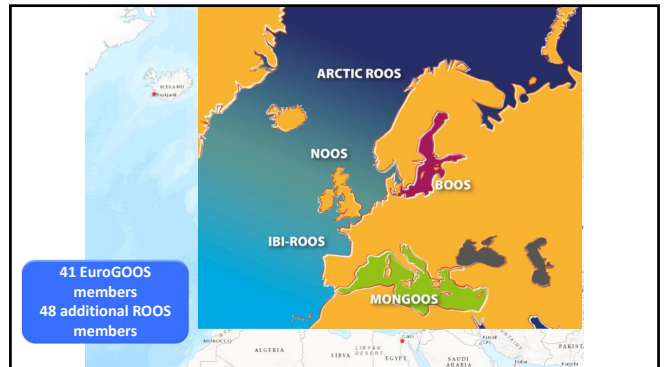


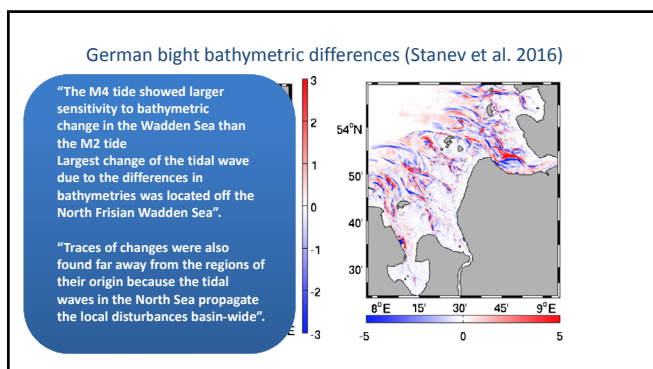
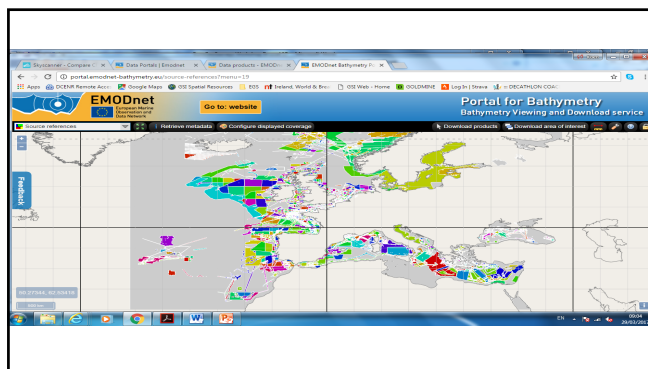
European Ocean Observing System:  
Observations to anticipate and monitor coastal risks

# EuroGOOS

Glenn Nolan,  
Vicente Fernandes,  
Patrick Gorringe,  
Erik Buch and  
Dina Eparkhina

Coastal mapping workshop, CPMR, Brussels, Feb 28<sup>th</sup> 2018

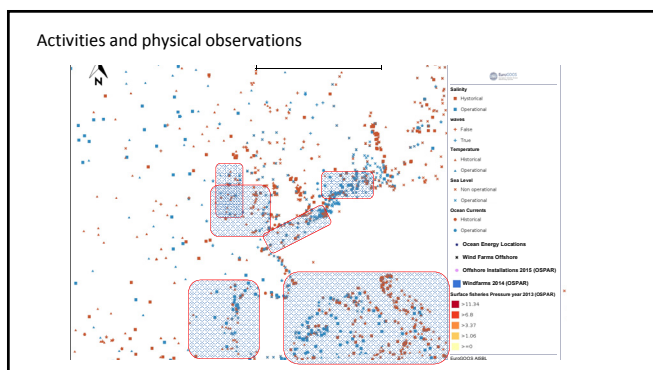




### Feedback from ocean forecasters

- Portugal**: "lack of free access to the current bathymetry data"
- Copernicus Marine Service**: Requirements not limited to Europe but also at global scale
- Baltic**: Shallow areas and estuaries original resolution sampled data required
- Ireland**: Extend INFOMAR to coastal locations for ocean energy, HAB and coastal inundation forecasting
- UK**: Improvements to operational storm surge model through use of EMODnet bathymetry
- Global Satellite altimetry correction (CLS, France)**: Arctic Sea, Hudson Bay & strait, Patagonian shelf, Indonesian seas, Gulf of Bengal, English Channel and Irish sea(s)
- Med Sea**: "all the publicly available products (Gebco, Etopo, SeaDataNet) in the Med become inadequate at certain resolution and for specific purposes"

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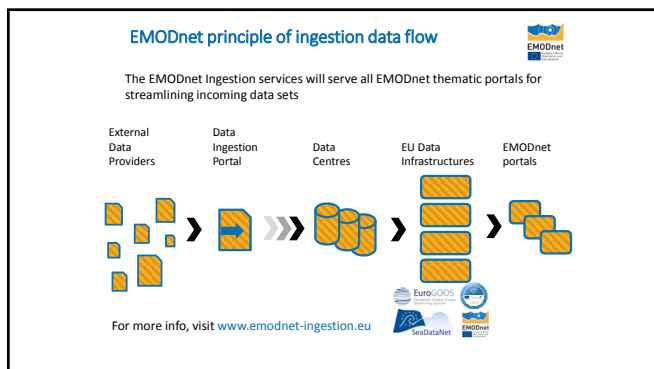


### Task Teams

Tide Gauge Ferrybox Glider HF radar Euro-ARGO EMSO Fixed Platforms Animal-Borne

- EuroGOOS Task Teams are operational networks of observing platforms;
- Promote collaboration among European observing infrastructures;
- Task Team members exchange open source tools, collaborate in areas of common interest, and jointly make European marine data available to the EuroGOOS ROOS regional data portals and hence to major EU data initiatives and data aggregators i.e. EMODnet, SeaDataNet and Copernicus Marine Service (CMEMS);
- Coordinate the existing efforts of the individual observation communities;
- Provide an up to date picture of the reporting platforms in Europe;
- Provides recommendations of common operational data procedures and services (incl. data quality control, data formats and data management);
- Brings people and communities together, avoiding duplication of efforts
- Open for additional members

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- ### Anticipating and monitoring coastal risks
1. Better river inputs, coastal bathymetry and meteorological forcing are among the requirements to improve current coastal services
  2. High resolution (spatial and temporal) satellite imagery is also a strong precursor for coastal services
  3. Many "local" measurements made that are not currently in Copernicus and EMODnet, these could be made available to improve forecasts at bay scale.
  4. All the above lead to better ocean forecasts + response to risks
  5. Work underway on making more data available: Data Ingestion, EuroGOOS, EEA

# EOOS

EOOS is a coordinating framework designed to:

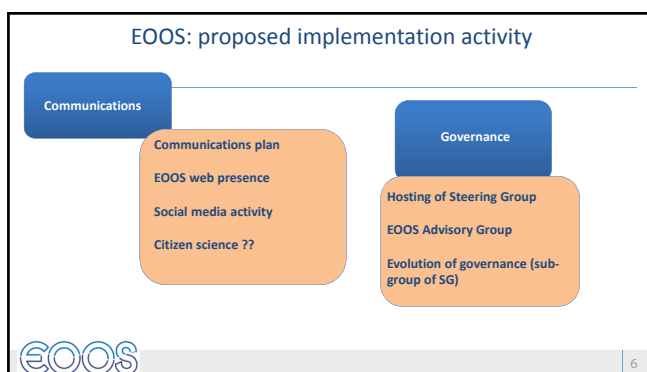
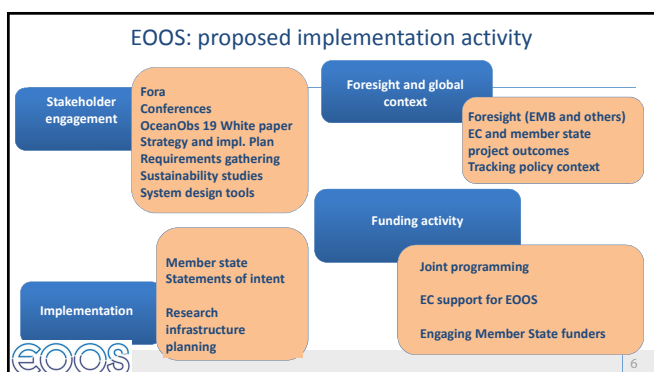
- align and integrate Europe's ocean observing capacity;
- promote a systematic and collaborative approach to collecting information on the state and variability of our seas;
- underpin sustainable management of the marine environment and its resources


- **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 2015 2016 2017 2018

8 March 2018 The EOOS Forum [www.eoos-ocean.eu](http://www.eoos-ocean.eu)

Dira Egarhina, EuroGOOS General Assembly 2017

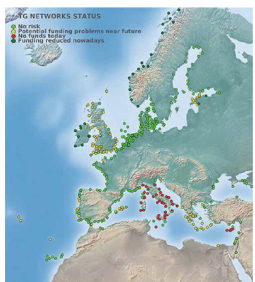




**Sea level observation networks in and around Europe**

Challenges in monitoring increasing sea level hazards

- Sustainability
- Future plans to apply to all platforms



**SLR NETWORKS STATUS**

Legend:  
 No risk  
 Potential flooding problems near future  
 Flooding hazard  
 Flooding tracked nowadays

Figure 1.1. A map of Europe showing the regions of Europe where sea level rise is expected to be a problem. The map is based on the data from the EuroGOOS project.



**Forum**

8 March 2018  
Area 42  
Brussels

**Conference**

November 21<sup>st</sup> to 23<sup>rd</sup> 2018  
The Egg, Brussels

[www.eoos-ocean.eu](http://www.eoos-ocean.eu)




# THANK YOU

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ANY QUESTIONS?

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