

The importance of marine data for the development of the blue economy on local and regional level Committee of the Regions 13 October 2016





- why we are doing it
- what we are doing
- what we will do next





• why we are doing it

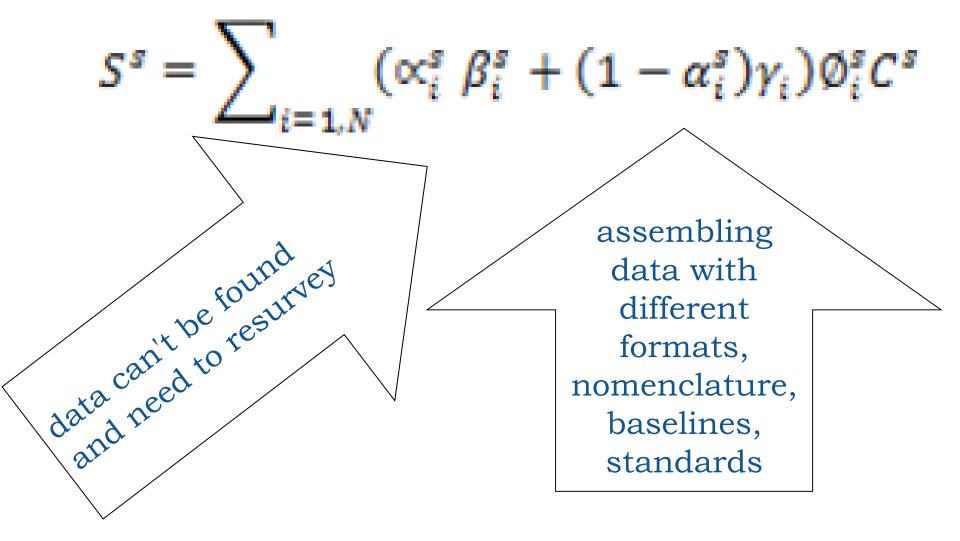
- save costs
- promote innovation
- reduce uncertainty
- what we are doing
- what we will do next





cost of

Furonean







# **Promote innovation**

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Coverage

Compatibility

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## reduce uncertainty

national weather service indicate that better knowledge of seabed topography from EMODnet improves forecasting of storm surges

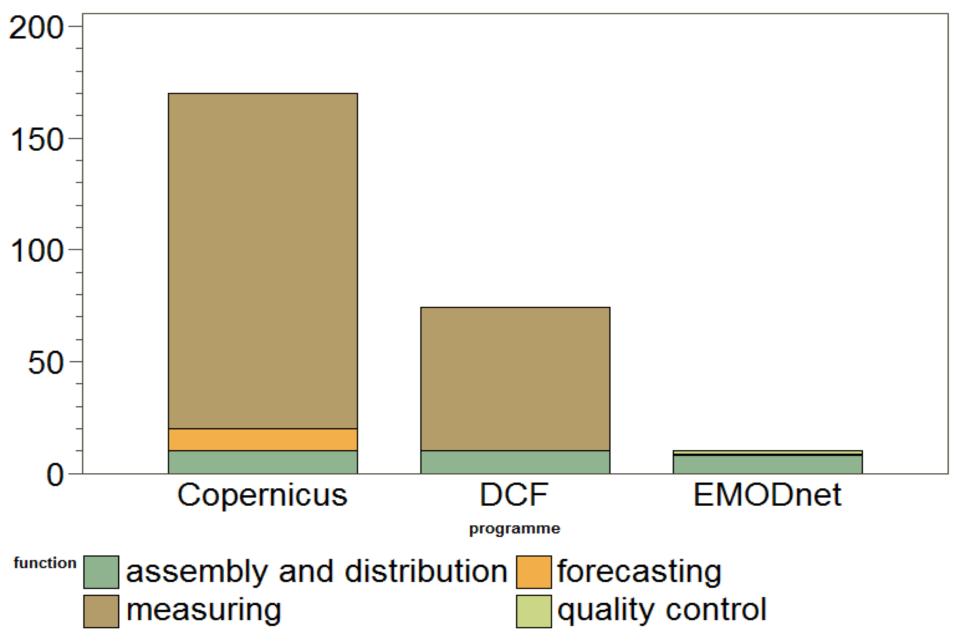




- why we are doing it
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#### annual budget € millions









- access to data
  - INSPIRE compliant
  - common standards
- creation of data products
  - seamless across sea-basin
  - together with quality estimates
- free and open access
  - searchable
  - through common portal
  - machine-to-machine connections





#### thematic groups

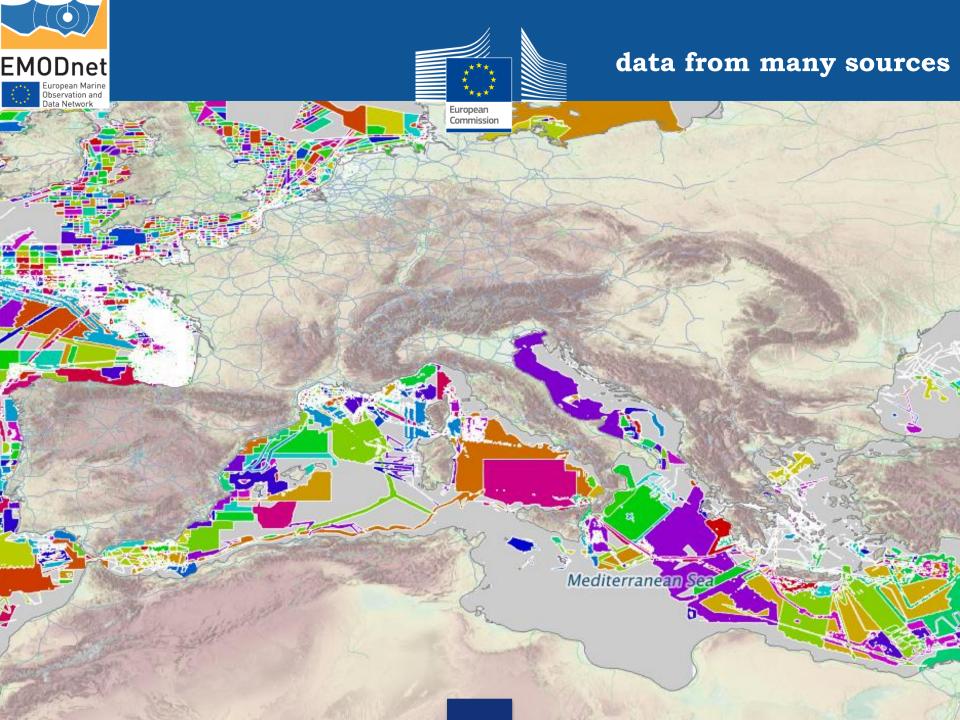
European Marine Observation and Data Network (EMODnet) consists of more than 100 organisations assembling marine data, products and metadata to make these gmented resources more available to public and private users relying on quality-assured, standardised and harmonised marine data which are interoperable and free of restrictions use. EMODnet is currently in its second development phase with the target to be fully deployed by 2020.

More information about EMODnet and its development process

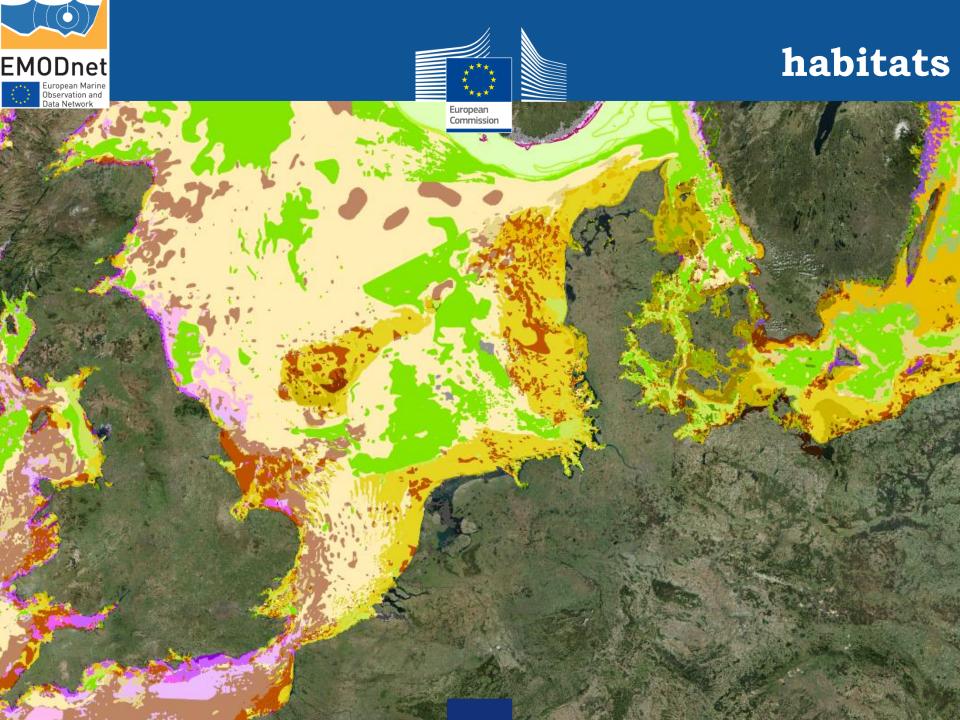
#### News Flash: EMODnet Checkpoints face 6 oil leak challenges

order to assess the potential of current marine data services to address commercial and policy 'challenges' relevant to the development of Blue Economy, the six EMODnet Sea Basin Checkpoints were requested to assess the impact of simulated oil spills in their respective sea sins (the Arctic, Atlantic, Baltic, Black Sea, Mediterranean and North Sea). The 'Checkpoint Oil Leak Challenges' were launched on /05/2016, with teams reporting after 24 and 72 hours on the fate and expected impact of the spills. Further information and the detailed ports can be found on the maritime forum here.



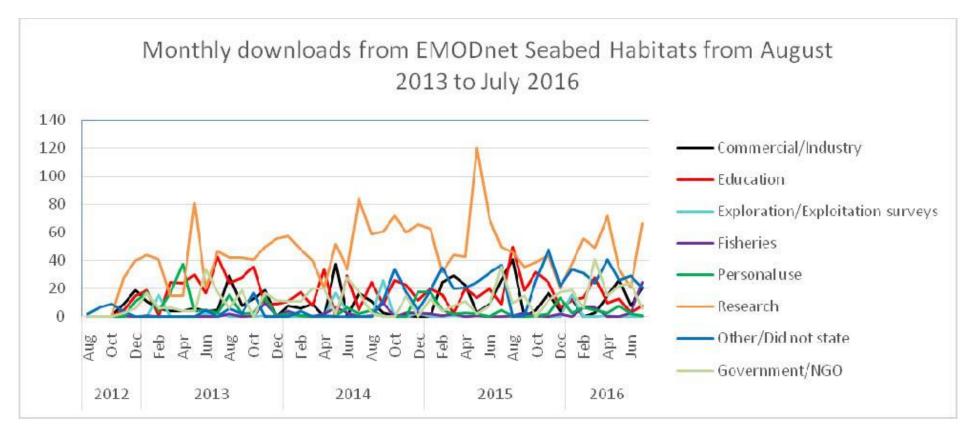


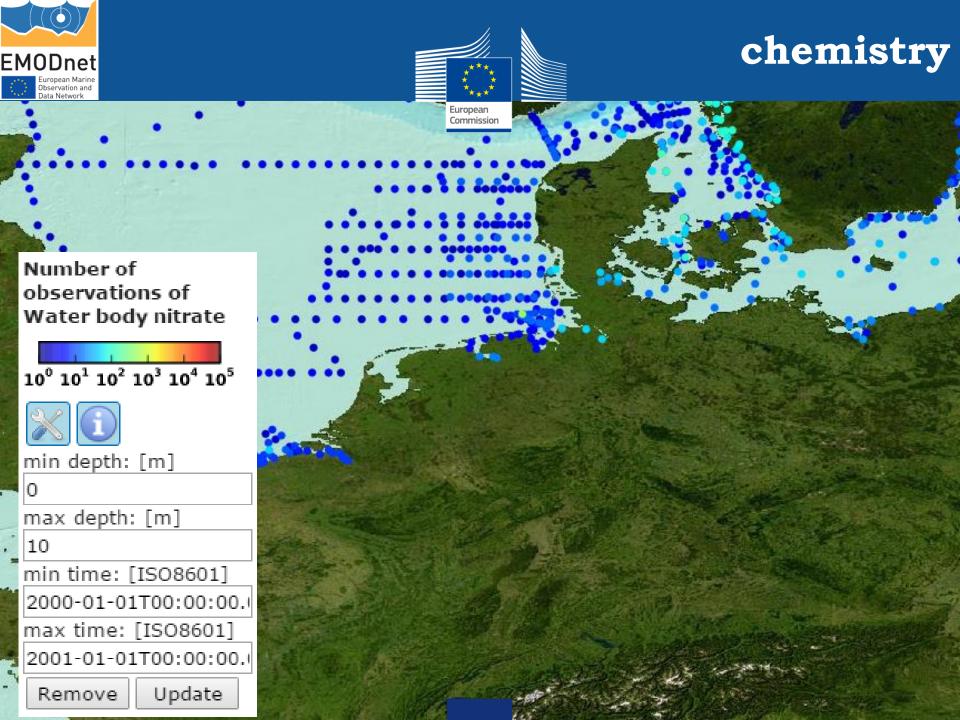
















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### chemistry

- Water body ammonium
- Water body chlorophyll-a
- Water body dissolved oxygen concentration
- Water body nitrate
- Jappi Water body nitrate masked using relative error threshold 0.5
- 🔲 Observations
- 📕 Additional fields
- Water body nitrate plus nitrite
- 🕼 Water bodv nitrate plus nitrite masked usina relative



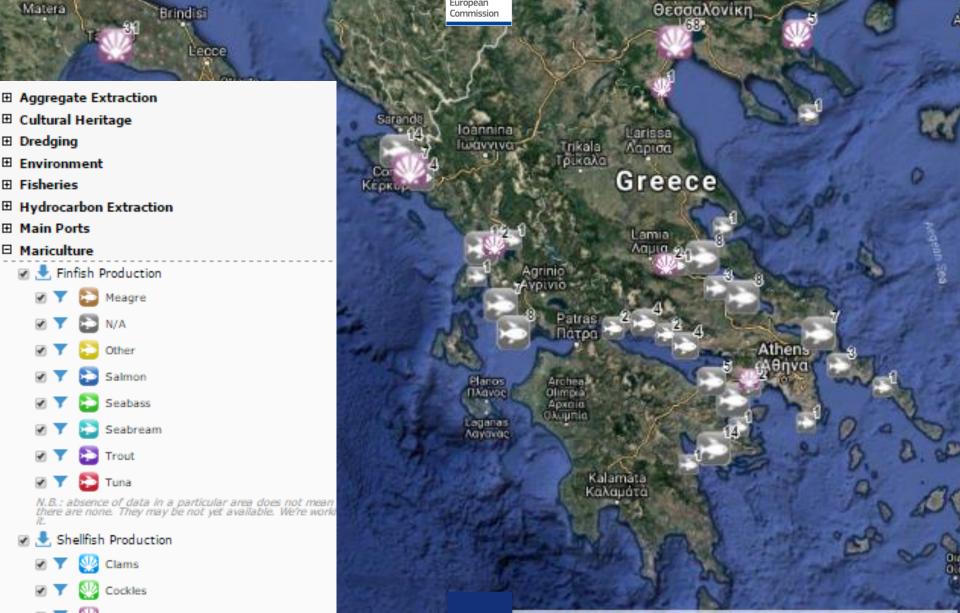






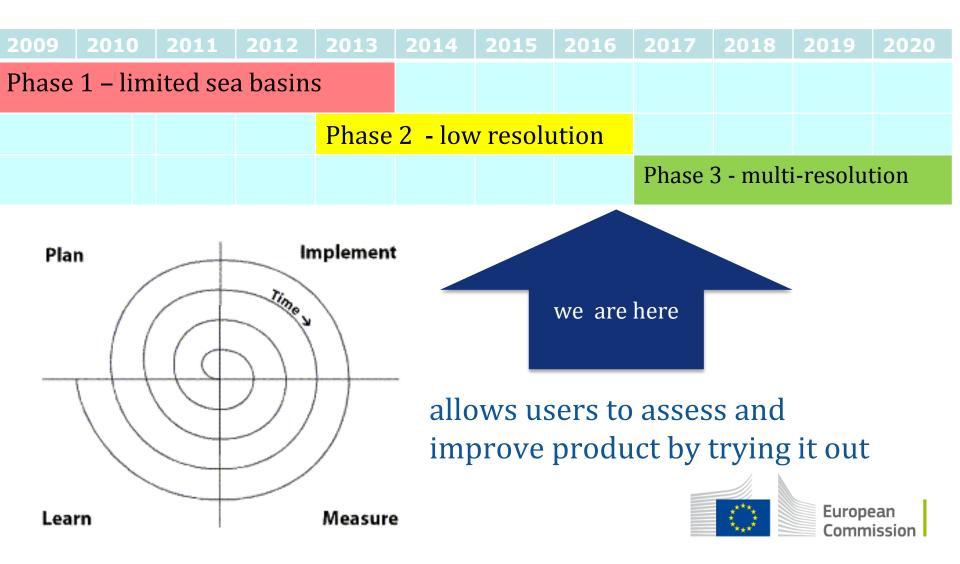
#### human activity

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#### prototype method



#### are data fit for use?



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About Challenges Checkpoint Service

Reports and News Links



The EMODnet MedSea Checkpoint evaluates the guality of the data fro monitoring systems in terms of their accessibility, availability, multiple-use reliability, time consistency, space consistency, as well as the planning of te advancements, new accessibility, new assembly protocols and observational required to meet Challenges described below.

- Mediterranean and North Sea
  - finishing
- Arctic, Atlantic, Baltic, Black Sea
  - beginning

**Climate and coastal protectio** 

how fast are our coasts eroding?

#### Marine protected areas

do we have coherent set of marine protected

areas?

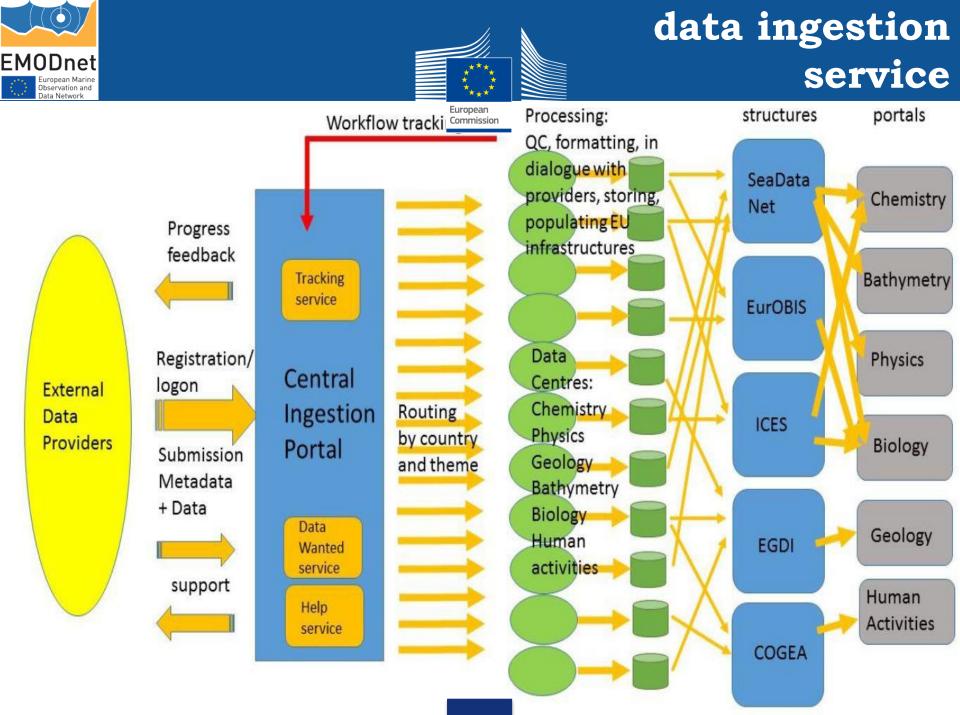
**Oil platform leaks** 

how quickly can we assess damage from oil spills?





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#### new features

- more parameters
  - marine litter
  - noise
  - ship traffic density
  - Palaeolithic landscapes
- higher resolution
- data ingestion service
- intensify collaboration with sea basin conventions and industry

