

GEO AquaWatch — GloboLakes Joint Workshop 30/8/2018





















COMMERCIAL SERVICE PLATFORMFOR USER-RELEVANT COASTAL WATER MONITORING SERVICES BASED ON EARTH OBSERVATION (CoastObs)

A H2020 Downstream applications project

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Project overview

Produce user relevant (marketable) innovative EO-based information products and services

Ensure user uptake of EO-based services by matching user requirements with product and system development

Lower cost of production by setting up highly automated information production system and targeting a user base with overlapping requirement

















Universida_{de}Vigo







Products

Standard Products

- · Chlorophyll-a
- Total suspended matter, turbidity
- Phycocyanin, Coloured dissolved organic matter
- · Sea surface temperature

Innovative Products

- · Seagrass, macro algae
- Phytoplankton size classes
- Harmful/indicator algae species
- Phytoplankton primary production

Higher level products

- Statistics/aggregation
- Indicators for water framework directive reporting
- · Harmful algal blooms forecast
- Shellfish culture potential



phytoplankton



seagrass



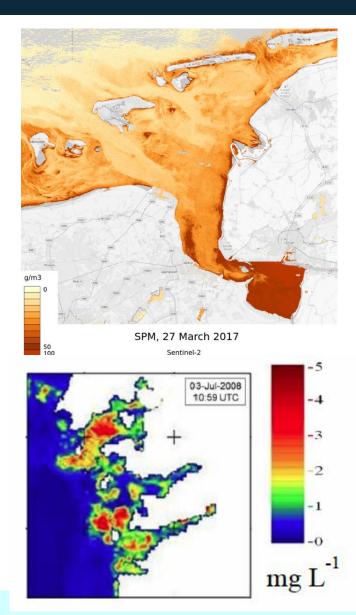
harmful algal blooms

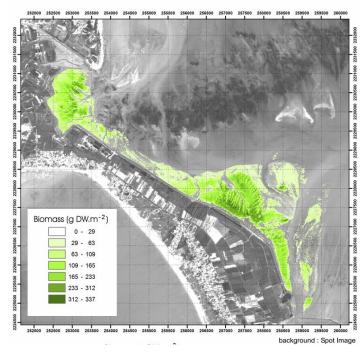


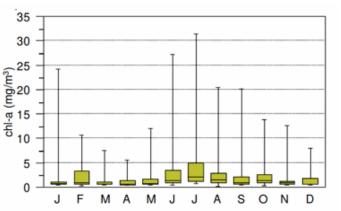
primary production



Product examples









Service types



Periodic reporting service

Water Framework Directive reporting

Monitoring of trends (e.g. eutrophication, carrying capacity)



Case studies



Food availability for Mussels Environmental / turbidity monitoring Coastal Dynamics



Monitoring, forecast & early warning of Harmfull algae blooms
Pseudo-nitzschia spp



Case studies



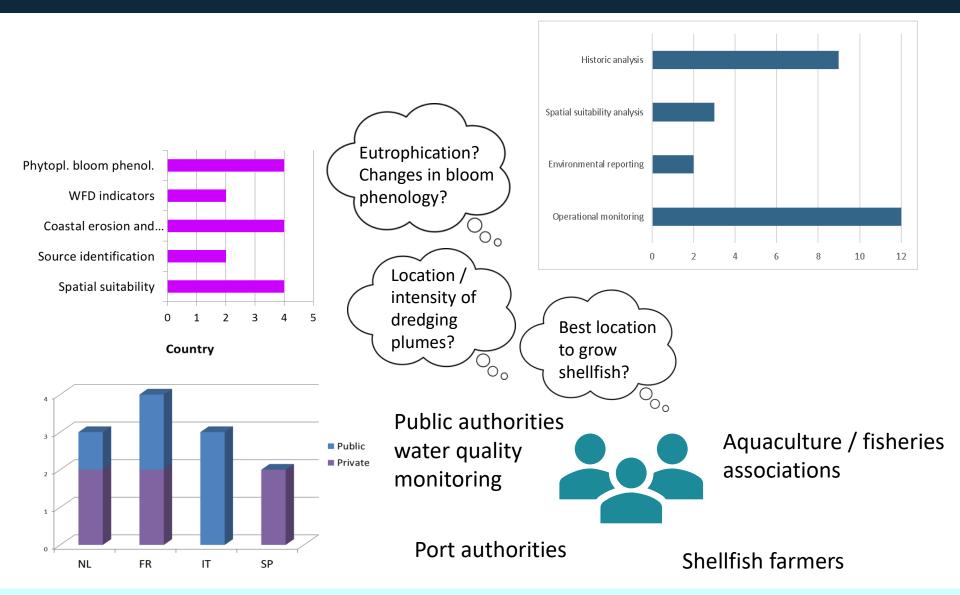
Submerged macrophytes
Morphodynamics, coastal erosion and accretion
Environmental monitoring



Intertidal macrophytes
Submerged seagrass
WFD reporting
Sediment plumes



Users and user requirements



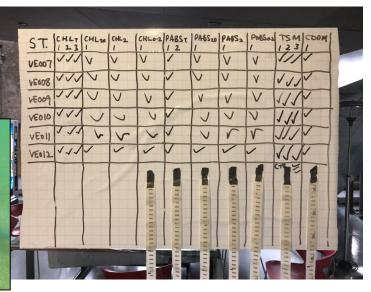


Product validation











Next steps

- Test product delivery & evaluation with users
- Set up of operational infrastructure including data cube software and web portal

