

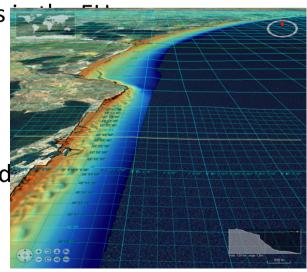


Shared objectives - IHO-DG MARE-CPMR





- Development of the concept of a Joint European Coastal Mapping Programme (JECMaP) within the IHO EU network in relation with the DG MARE,
- Bathymetric data is the basic common layer for all the users of marine data
- CPMR and its member-regions work since a lot of years on knowledge of the marine environment for integrated management of coastal areas
- 2015 Launch of project financed by the DG MARE (EMFF funds) « Coastal Mapping »
 - Assess the current availability of digital coastal maps
 - Disseminate this information by EMODnet
 - Share experience of coastal mapping in the EU
 - Develop standards for best practices
 - Propose how a future JECMaP could be implemented







Consortium

Hydrographic offices:

FRANCE - BELGIUM -GERMANY - GREECE -IRELAND - ITALY - LATVIA -NORWAY - PORTUGAL -SLOVENIA – SWEDEN

Regions:

CPMR – Regione Lazio

Public Bodies :

ISPRA - RWS - GeoEcomar -DDNI

IT company:

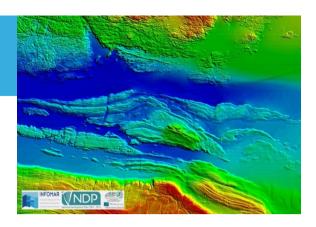
Worldline







Contributions



- Hydrographic offices involved in the acquisition of coastal data to fulfill their mission for the safety of navigation, are specialists of bathymetric measurements and processing
- CPMR and the Region helped to refine the perception of the needs of data for implementation of coastal policies, particularly coastal risks. High resolution bathymetric data is an essential data for coastal policy making
- Scientists of ISPRA brought the vision of the scientific needs and built tools for helping decision







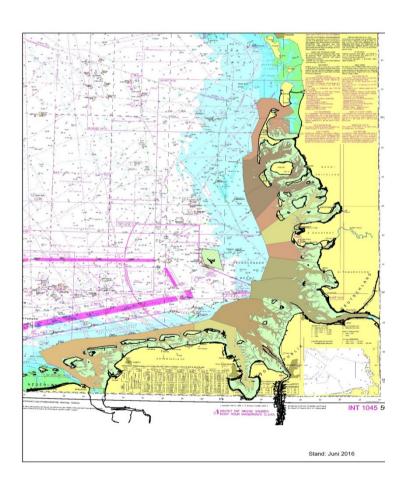
Main results

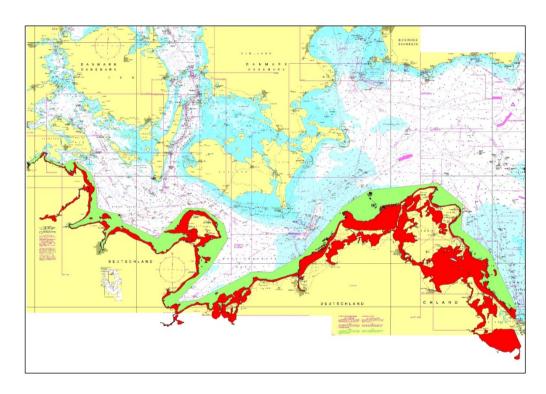
- A gap analysis (12 countries of the panel): more than 175 000 km2 of acquisition to do
- An analysis of the possibilities to share means: planes, vessels ... Possibilities identified but how to combine it with the EU financial programmes?
- An analysis of the national governance, business models running: how to combine the open data and the lack of financial means?





Gap analysis









Main results



- Standardized and high resolution data are the conditions of reusability of data by national and local authorities and stakeholders for the maritime policies
- Using standard procedures is necessary for data quality assurance. IHO standard must be used, no data should be collected without an assessment of its accuracy

Recommendation: take a step forward with the use of these standards in EU funded projects.



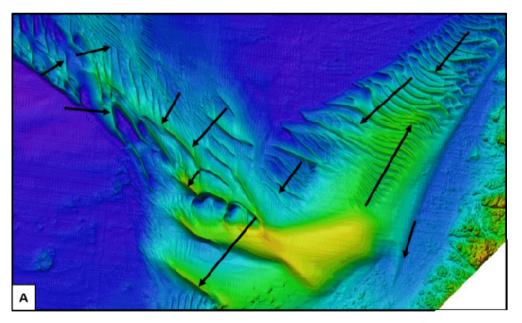


Protection against erosion

Modelling marine flood

Planning MRE





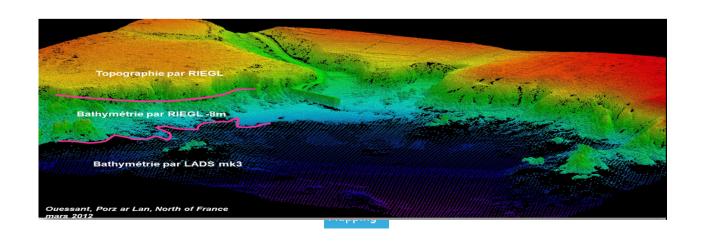




High Resolution Bathymetry in shallow water TOWARD A EU STRATEGY?

Bathymetric data in coastal zones:

A common ground for the coastal
and maritime policies (integrating land-sea interface)





How to fill the gaps with a European Strategy? Three axes proposed

- ➤ AXIS 1: Set up coordinated programmes for data acquisition at maritime basin scale
- ➤ AXIS 2: Increase the opportunities for bathymetric data acquisition in the framework of the EU operational programmes and funds
- AXIS 3: Promote the production of bathymetric data from multiple sources, usable by different categories of coastal users for maritime policies.





Design Joint European Coastal mapping programmes?

Co-financed by the States, the Regions and EU's relevant funds (EMFF, ERDF, H2020)

- Design programmes both at the scale of maritime basins AND by technology/platform
- Consider these data as a basis of research infrastructures in coastal areas, including updating
- What future developments with EOOS? A place for these considerations in the EOOS conference in November?





Increase the possibilities for coastal bathymetric data acquisition in the framework of the Interreg programmes, H2020, EMFF, LIFE

- Coastal zone is a high-risk zone for climate change issues and requires a lot of knowledge and data to deal with extreme climate events
- A lot of marine bathymetric data produced in the EU projects suffers a lack of visibility, common standards and mutualisation. → data lost
- Use of international standards for data production funded by EU funds
- Pooling these data in the EMODNET database
- Need of data validation by the competent offices of the Member State
- Developing campaigns in homogeneous areas, sharing platforms and funds from EU programmes





Increase the possibilities for coastal bathymetric data acquisition in the framework of the Interreg programs, H2020, EMFF, LIFE

Many opportunities but scattered and without long term management

How to work with the coordinators of EU programmes to deliver these messages and promote the eligibility of acquisition data projects?





Crowd-sourcing

- Promoting the production of usable bathymetric data for maritime policies, coming from different sources (EU project included)
- Organising training and dissemination of data acquisition standards, (possibilities in EOOS area with HOs?)
- Organising the validation of these data by the HOs of EU Member States (link with EMODNET project "ingestion and safe keeping of marine data")
- Evaluation of the gaps in the EU coastal seabed mapping suitable for crowd-sourcing
- Promoting the link between the EU and the IHO works (standards, databases)..





THANK YOU

