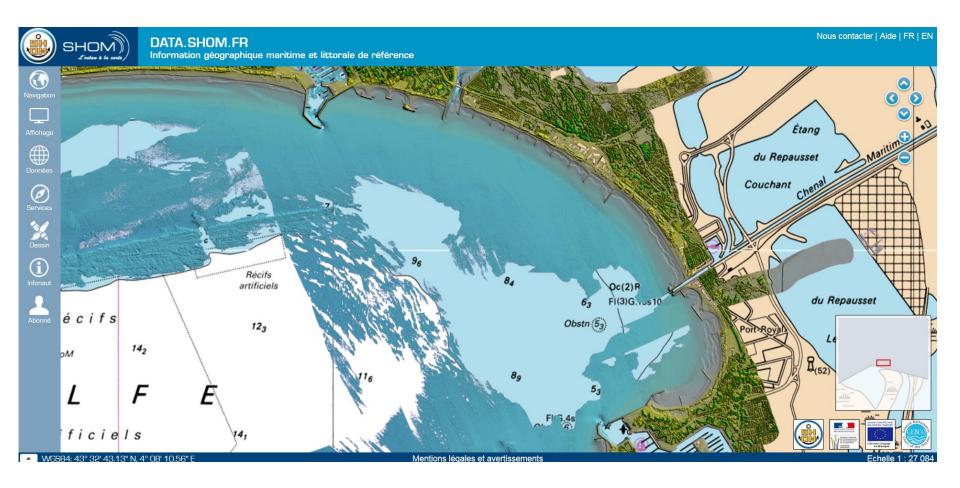


Commission

Managing the coastal zone and their risks Preserving the environment and developping the blue economy



Protection against erosion





Protection against erosion





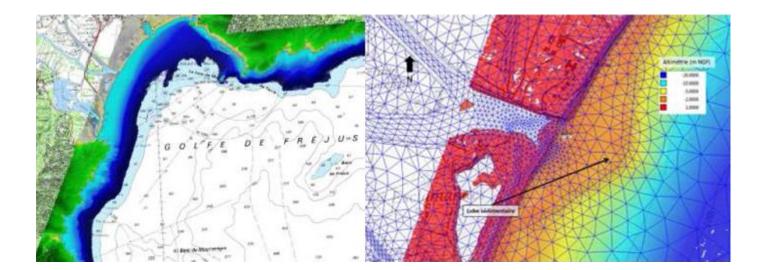
Link between different data scales and methods





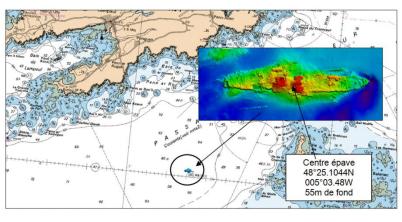


Discovering a submarine dune in an estuary increasing inundation risks





Manage the security of navigation and the marine archeology

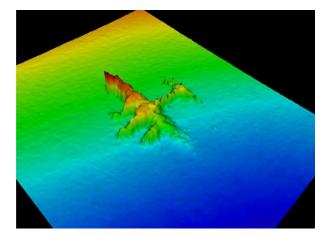


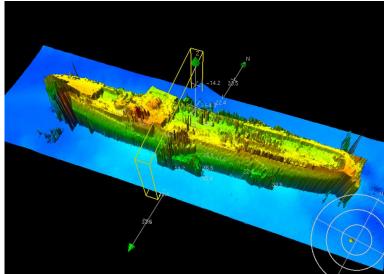




épaves en Corse

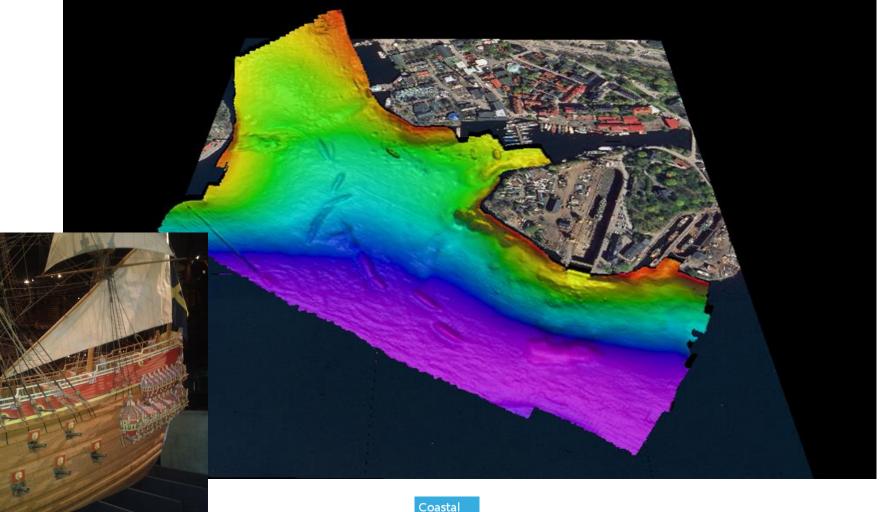








Stockholm coastal management; the Vasa history



Mapping



Commission

295

NEED OF EU PICTURE OF SITUATION FOR COASTAL HR BATHYMETRY COASTAL MAPPING PROJECT DG MARE 2014/10





European Legislation

- Maritime Spatial Planning Framework Directive (2014/89/EU)
- Marine Strategy Framework Directive (2008/56/EC)
- Promotion of the use of Energy from Renewable Sources Directive (2009/28/EC)
- Directive on the assessment and management of flood risks (2007/60/EC)
- EU White Paper on Adaptation to Climate Change
- Bologna Charter 2012 (European Regions charter for the promotion of a common framework for strategic actions aimed at the protection and sustainable development of the Mediterranean coastal areas)

NEEDS FOR SUSTAINABLE BLUE GROWTH EMODNET «GALAXY» Copernicus Programme

(European system for monitoring the Earth)

FUTURE NEEDS:

- Monitoring of different parameters
- Development a standardized operational EU Earth observation capacity

Mapping





COASTAL MAPPING PROJECT

Objectives:

- Assess the current availibility of digital coastal maps in the EU and disseminate this information by EMODnet (opening a portal)
- Share experience of coastal mapping in the EU (analysis of the needs and means in Europe for the acquisition of marine data in coastal areas? Analysis of governance, economical models, sources of funds)
- Develop an algorithm for choosing the most appropriate surveying method and standards for best practices
- Propose a future Joint European Coastal Mapping Programme (JECMaP) for marine data acquisition considering also Copernicus







Consortium from 13 EU MS

•*Hydrographic offices :* FRANCE – BELGIUM – GERMANY – GREECE – IRELAND – ITALY – LATVIA – NORWAY – PORTUGAL – SLOVENIA – SWEDEN

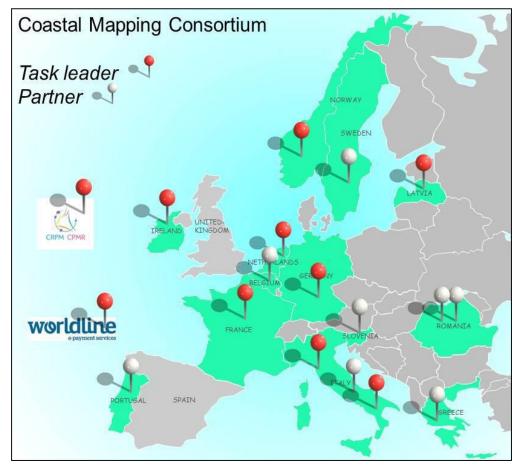
•*Regions :* CPMR – Regione Lazio

•*Public Bodies :* ISPRA – RWS - GeoEcomar – DDNI

•*IT company :* Worldline

Observers

•*Hydrographic offices :* UNITED KINGDOM - SPAIN



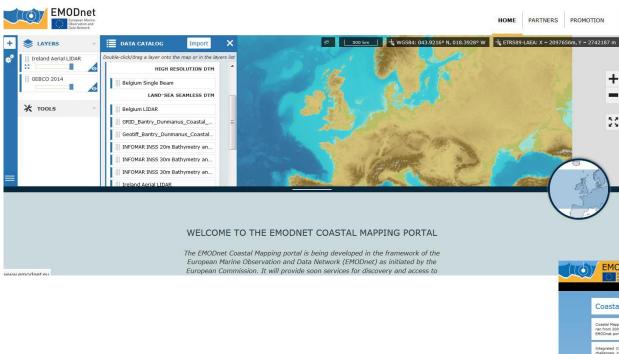


Coastal

Mapping

COASTAL MAPPING PORTAL: on line 23/12/2015

http://coastal-mapping.eu



Coastal mapping on EMODnet Central Portal

http://www.emodnet.eu/coastal-mapping

Emodnet « look and feel » including user registration process Incorporation of digital data and indications of most appropriate

Internet portal specification

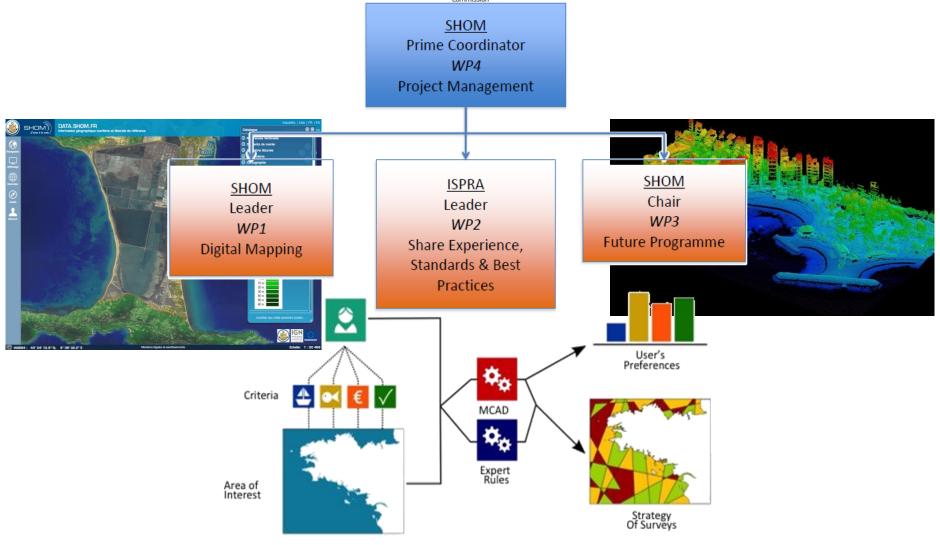
COASTAL MAPPING

- technique for future mapping
- Facility to download
- Data ingestion DTM, surveys, GPS points allowing mapping of coastline through crowd-sourcing
- Discussion board and project website

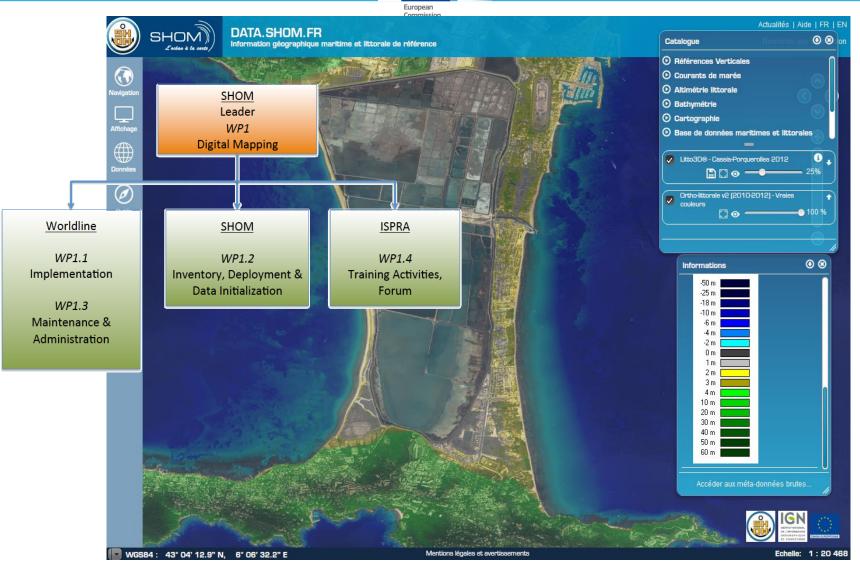




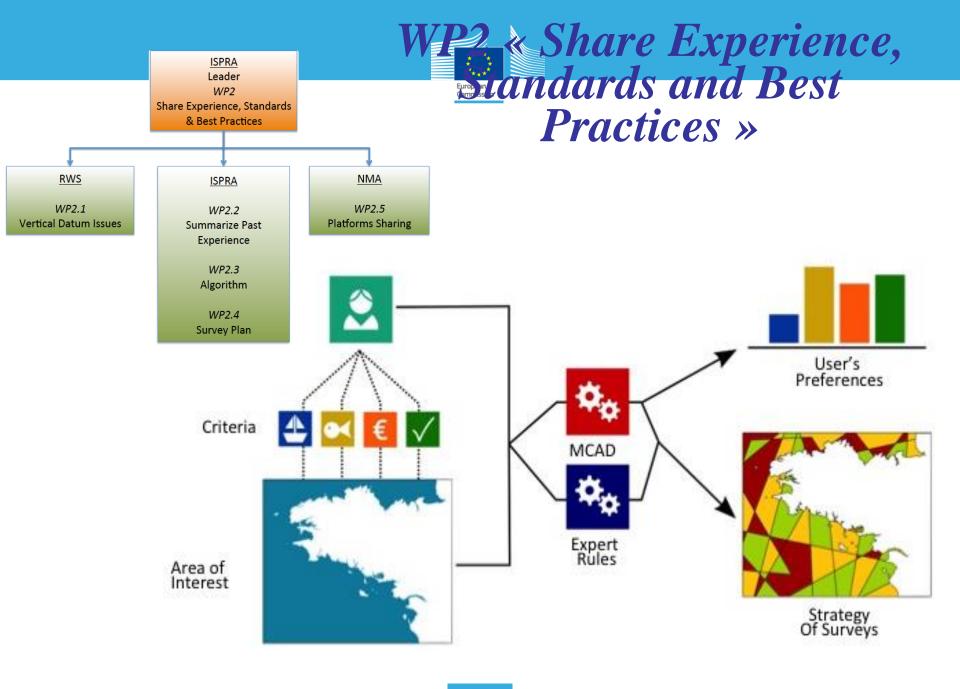




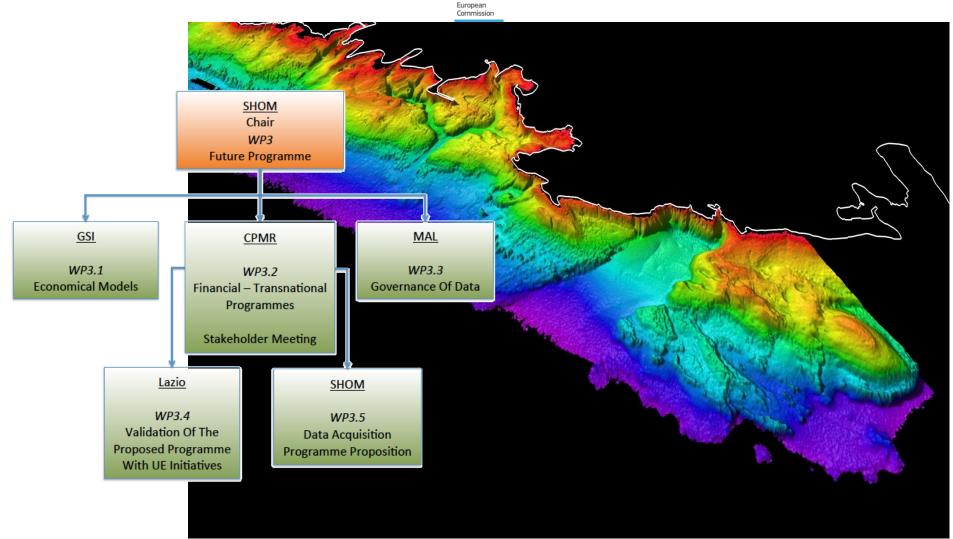
WP1 « Digit Mapping »





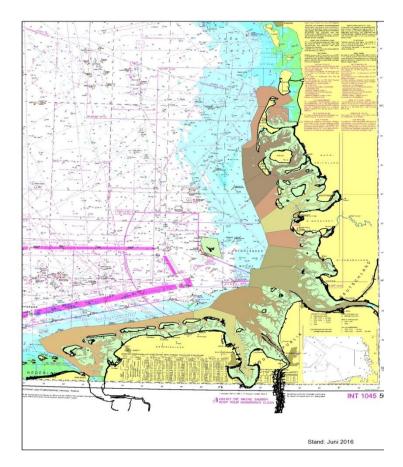


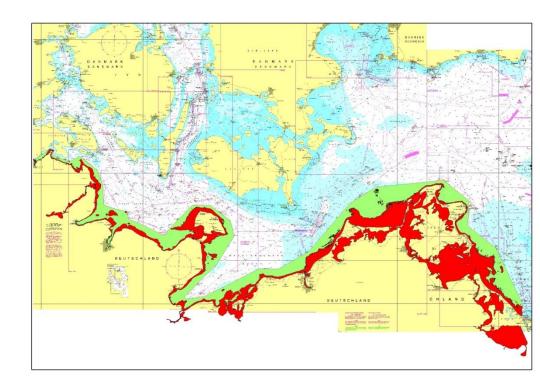






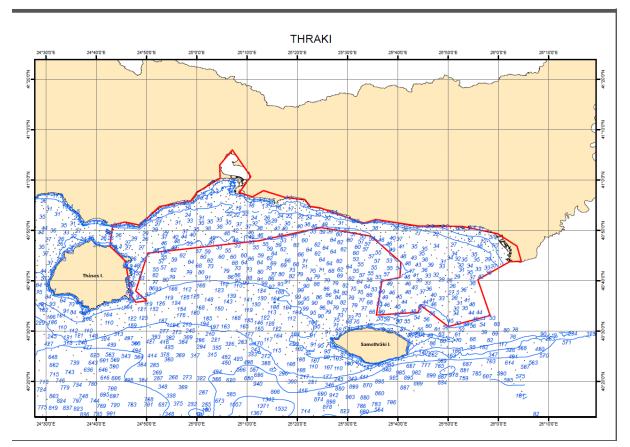
Analysis of the needs and means in Europe for the acquisition of bathymetric data in coastal areas Areas of the German coastal zone North Sea (intertidal zone in light green) Baltic Sea (Bathymetric Lidar in red)





Analysis of the needs and means in Europe for the acquisition of bathymetric data in coastal areas Example of Greece

Suggested Areas	Depths	Surface(km²)
Kerkyra	0 to 50m	365
Preveza	0 to 50m	410
Thraki	0 to 50m	2200
Limnos	0 to 50m	625
Kos	0 to 50m	235





ACQUISITION OF HIGH RESOLUTION COASTAL BATHYMETRIC DATA

TOWARD A EUROPEAN STRATEGY?

The bathymetric data in coastal zones: A common basis for the coastal and maritime policies (integrating interface) A chance for innovation in blue growth





How could a JECMAP be run?

Three axes

- AXIS 1: Set up coordinated programmes for data acquisition at maritime basin scale,

- AXIS 2: Increase the possibilities for bathymetric data acquisition in the framework of the EU operational programmes and funds,

- AXIS 3: Promote the production of <u>usable</u> bathymetric data for maritime policies by different categories of coastal users and from multiple sources; "the community sourcing"

