Rhys Cooper (BGS) EMODnet HRSM – EMODNet Geology ambassador

Dick Schaap (MARIS) EMODnet HRSM Technical Coordinator

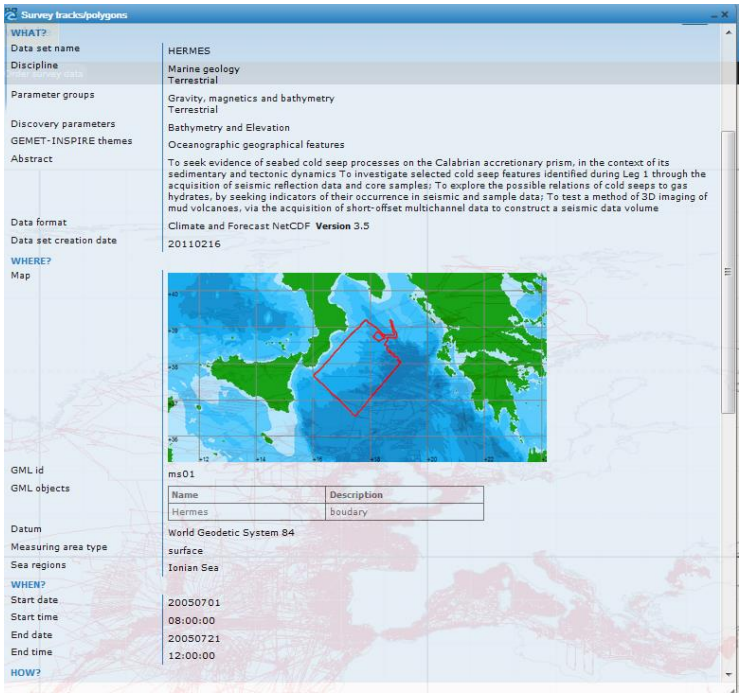
Thierry Schmitt (SHOM) EMODnet HRSM Coordinator

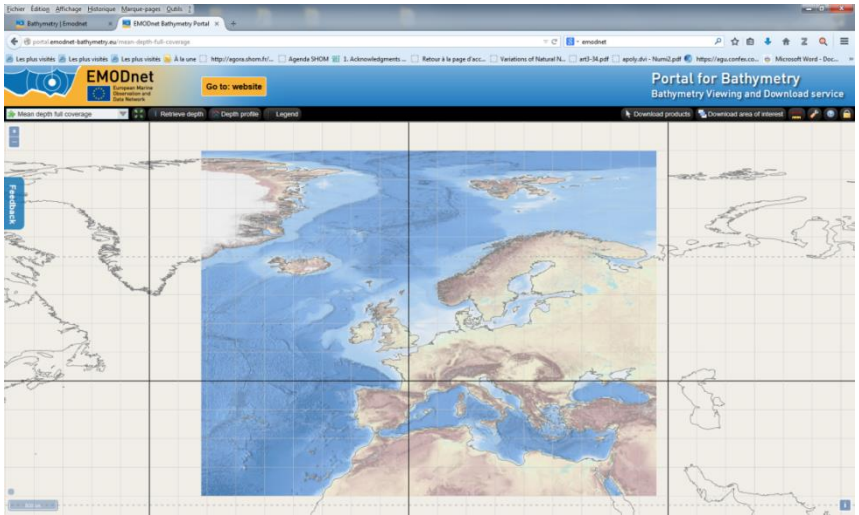
EMODnet High Resolution Seabed Mapping (HRSM)

RESULTS OF PREVIOUS PHASES AND CONTEXT

- **Since 2009 for the bathymetric theme.**
- **Distributed infrastructure bringing an inventory of bathymetric data available (under data producer's terms) and a synthetic product (DTM).**
- **Last release October 2016 (at 250m) with over 7000 datasets (surveys) and composite grid (including GEBCO, MAREANO, Baltic DTM…)**
- **EMODNET HRSM launched 20/12/2016 for 2 years with the objectives:**

  - improving the resolution to 100m (1/16 arcminute)
  - expanding to the North Pole
  - including alternative data sources (Satellite Derived Bathymetry)
  - provide auxillary information to the user (Quality)
  - developping cloud based processing





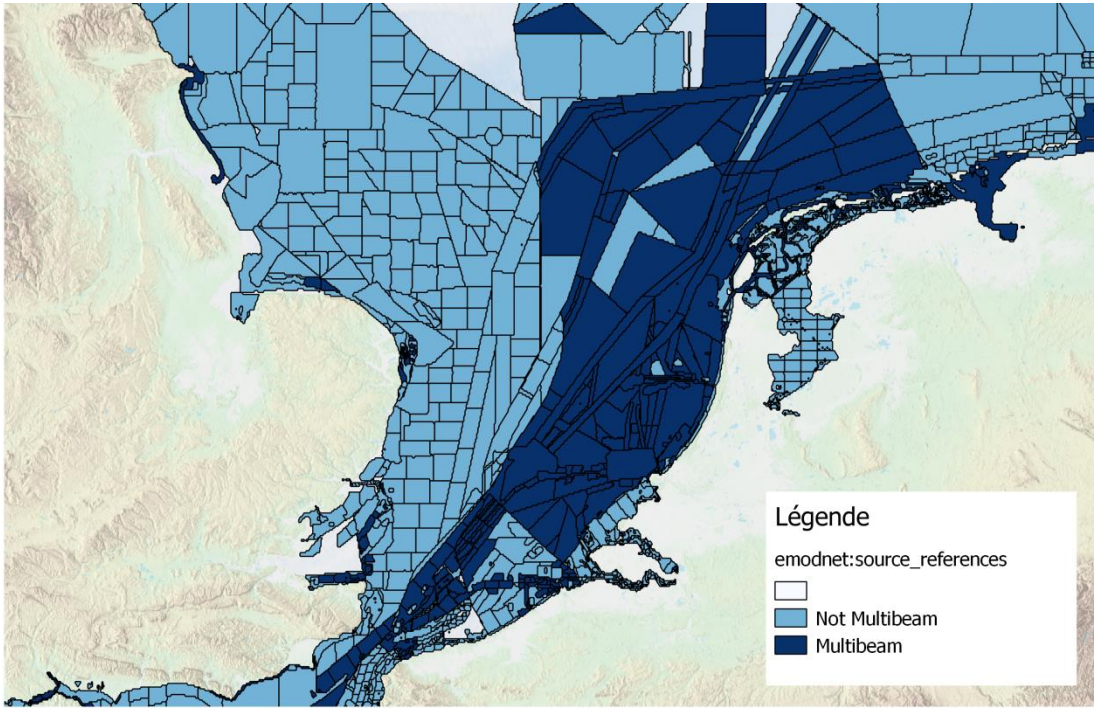
COMPOSITION OF THE HRSM CONSORTIUM

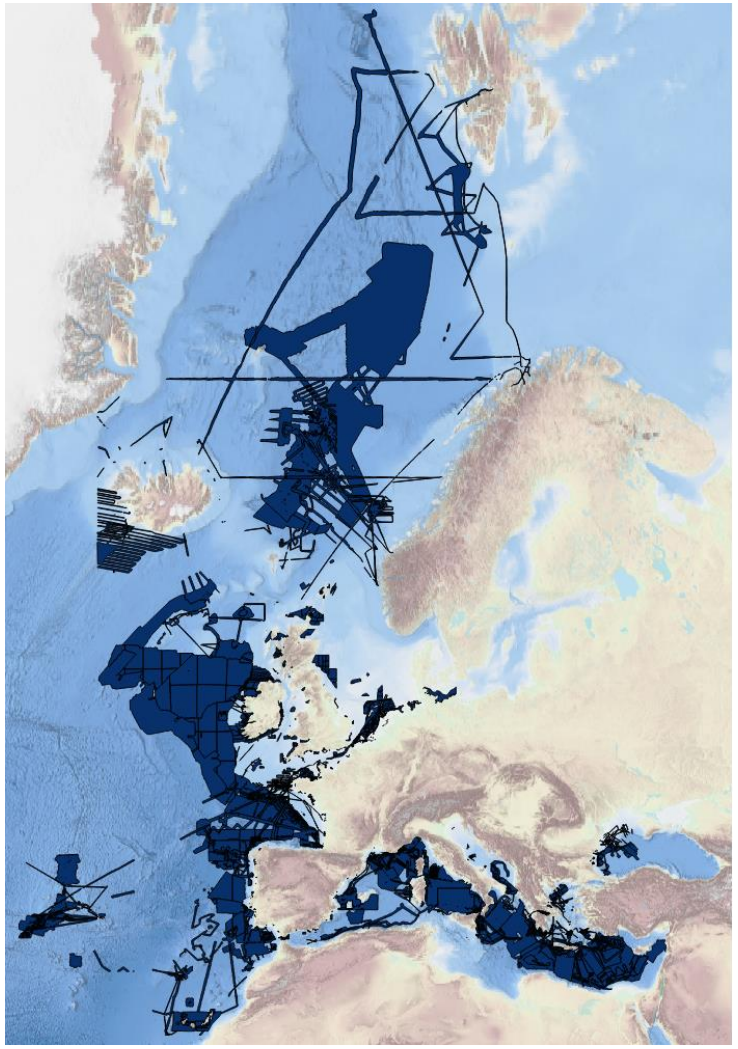
- 41 collaborating organisations
- 20 countries
- 16 Hydrographic Offices
- 17 Marine Research Institutes
- Over 70 specialists
- Strong relations with major national and international bodies (IHO, GEBCO, NOAA, National research agencies, National marine and environmental agencies, ...)

COLLABORATION WITH EMODNET GEOLOGY

EMODnet
European Marine Observation and Data Network

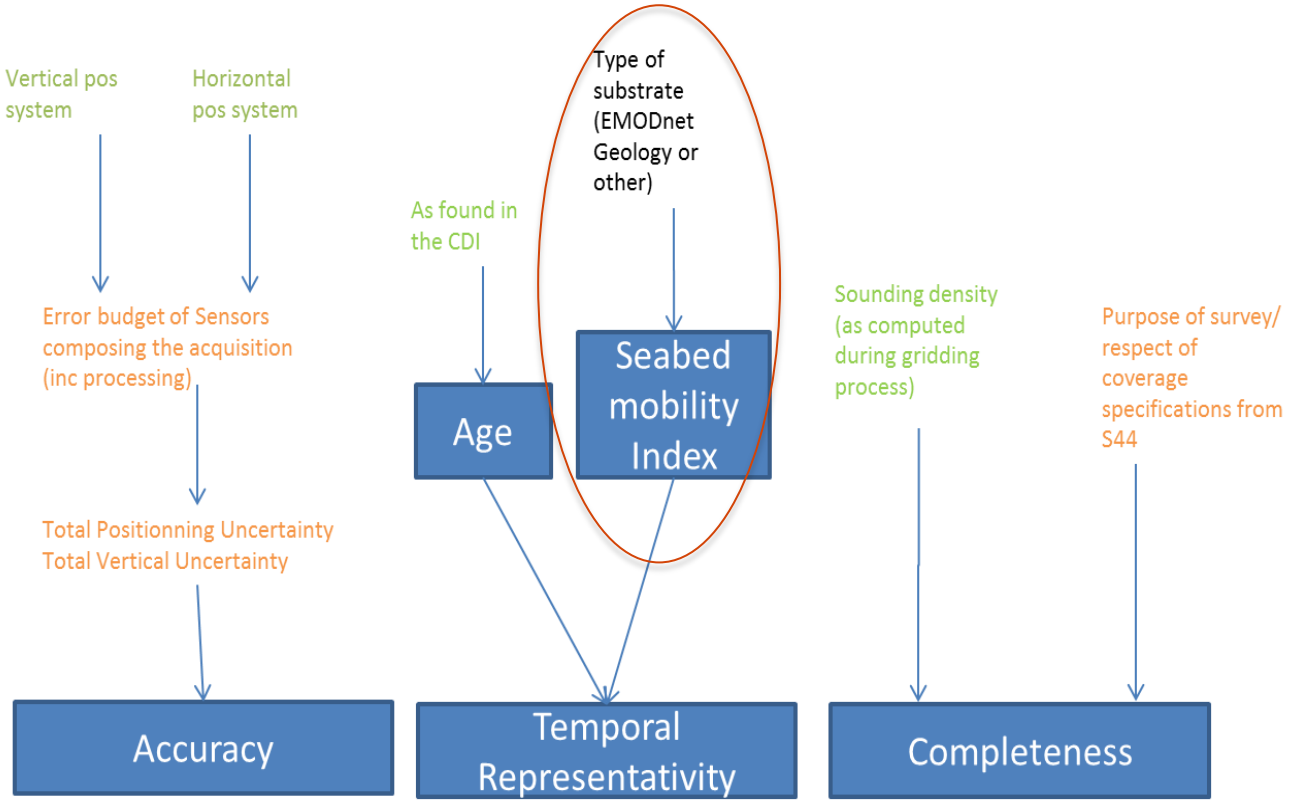
Providing a list of multibeam datasets





COLLABORATION WITH EMODNET GEOLOGY

EMODNET High Resolution Seabed Mapping to provide a Quality Indicator at the grid node level based. EMODNET Geology could help on an index of mobility.



Example of classes (tbd):

0: 30y – oldest date (geological structural, tidal basin changes,)

1: 10y – 30y

2: 5y – 10y (erosion/deposition at the scale of structure like continental shelf / canyons…)

3: 0y – 5y (time frame of dune migration or coastal shoreface modifications)

FINDING US

www.emodnet-bathymetry.eu