



EUROPEAN UNION



# IHO European Network

Plenary Session

27th, French RP, Brussels

12.03.18

# EMODNET SESSION

CHAIR OF THE IENWG – HEAD OF PUBLIC SERVICES AND INTERNATIONAL RELATIONS  
- CAPT. L. LOUVART



## A gateway to HOs data in Europe

On behalf of T. Schmitt, project manager

TITRE PRÉSENTATION



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12.03.18



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European Marine  
Observation and  
Data Network

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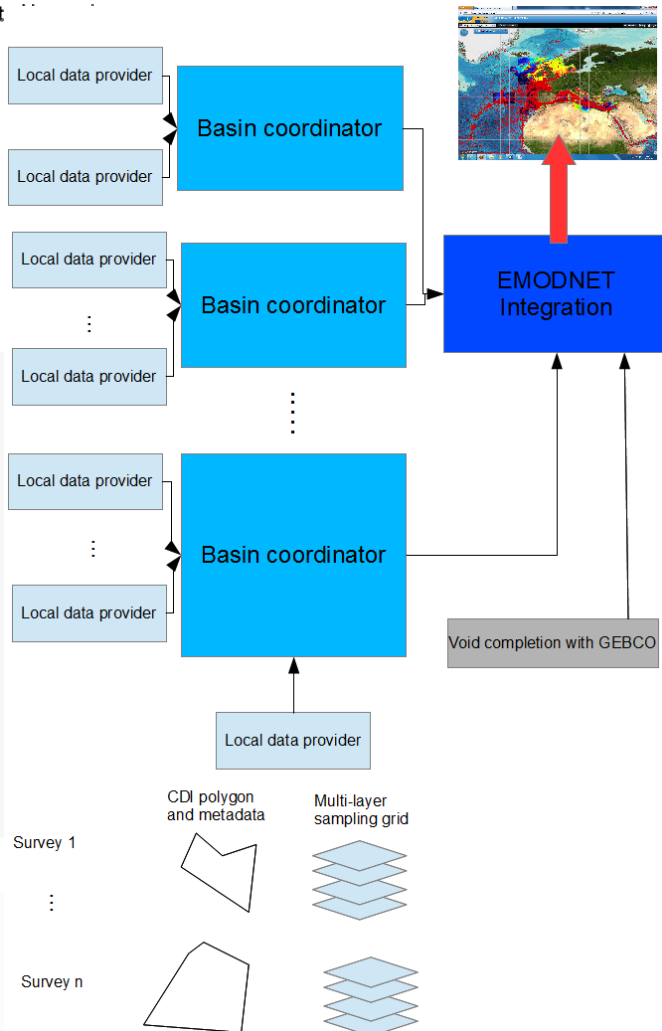
## Global objectives



- Common method to access data from surveys
- Multi-resolution Digital Terrain Model of the seabed
- Standard coastline and baseline data
- Web portal allowing easy access of the data and data products
- Interoperability (INSPIRE) and with organisations from outside EU
- Support to users and to the overall EMODnet community (secretariat, other themes)
- 3rd phase. Initiated in 2009.



# EMODNet bathymetry spirit: distributed roles

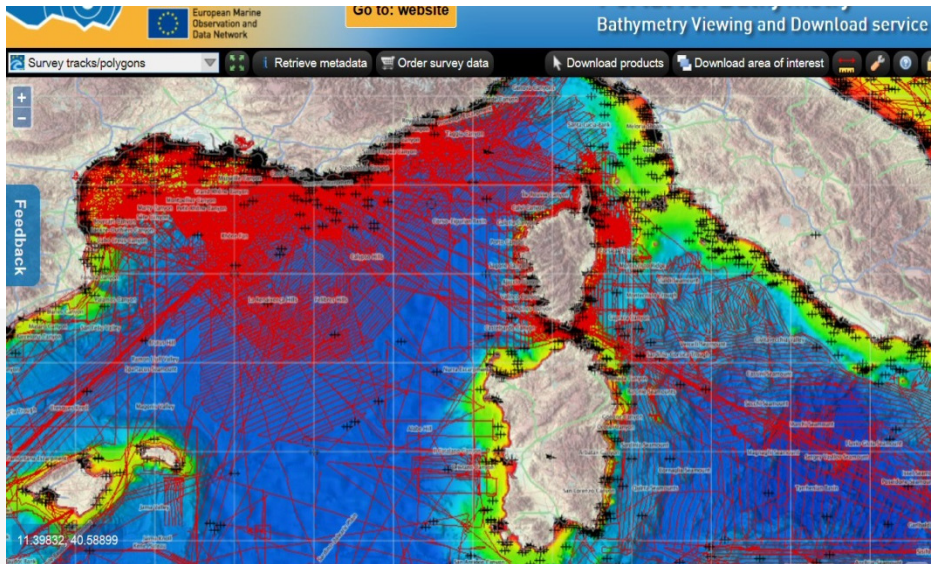


- Unified method and tools for data and metadata production
- Distributed role, from the local data provider, to the integration to the portal
- Distributed infrastructure (opposite to a central portal)
- Data diffusion is managed at the data provider level, with respect to his own data policy.





## Existing Emodnet Bathymetry



- ⊙ Ongoing since 2009, with one release at 500m, 250m (current version)
- ⊙ Portal allows access and download of the DTM product
- ⊙ Portals allows discovery of source data and connection with the data owner





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# EMODNET -3 Consortium



- 41 collaborating organisations
- Kick-off meeting held end of March 2017

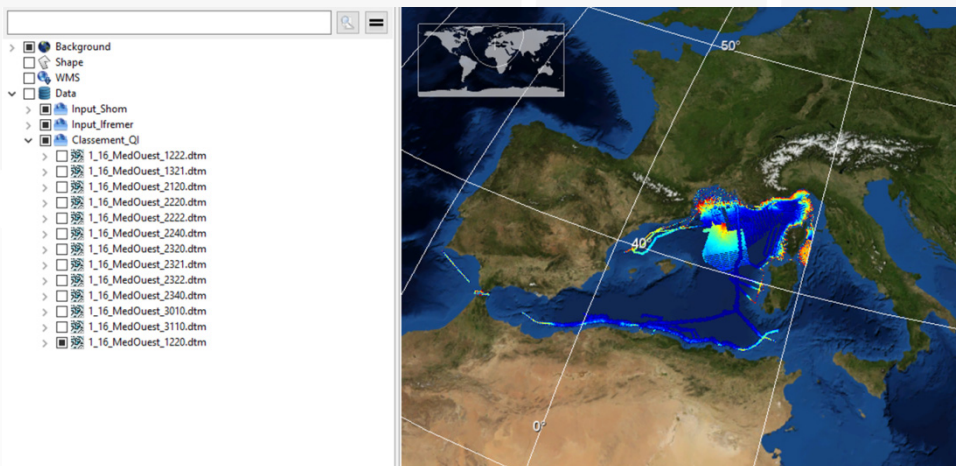
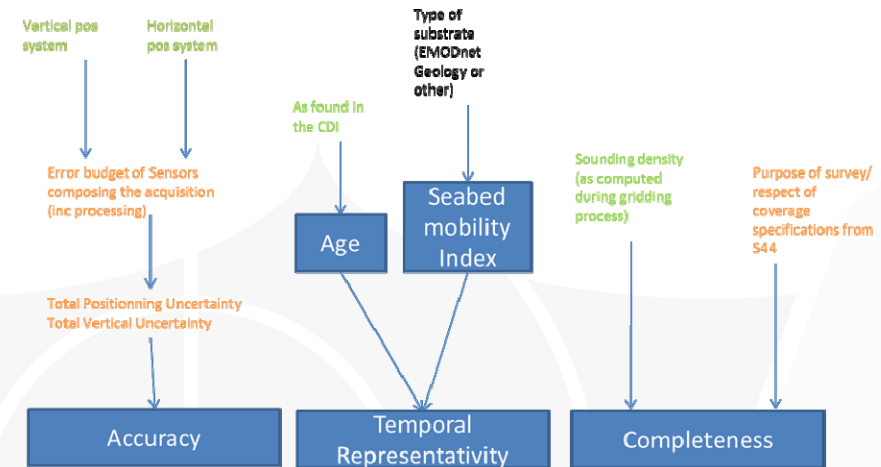


3/12/2018

# Data and metadata collection Processing and DTM production

Definition of a new quality indicator based on:

- Age of dataset
- Horizontal and vertical precision
- Purpose of the survey



- ⇒ Implemented within data production tools (CDI and CPRD catalogues)
- ⇒ Globe processing software upgraded

⇒ **All data providers are now preparing and populating updated and new metadata and associated datasets**

# Technical development, portal, tools and services

- New modern EMODnet Bathymetry web portal with responsive design implemented
- WM(T)S, WFS services running and used for collaborations with NOAA for example
- Preparation and review of the set-up for the Virtual Research Environment developments at the DATARMOR computing facilities





# Outreach and international collaborations

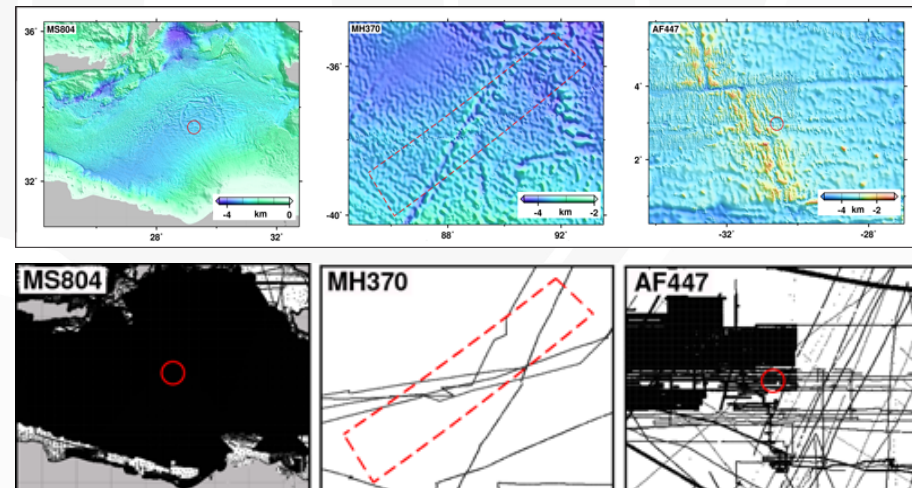
Since Jan. 2017:

- Emodnet bathymetry referenced in 19 peer reviewed papers and 4 book chapters since
- 8 Conferences (EUG, AGU, CARIS conference, Inmartech, ODIP workshop, EMODNET Geology Kick-off, IHO General assembly, ... )
- 4 Inserts or papers in technical and generalist papers, website
- “Workshop on Global Reference grid System” at the initiative of the JRC

Ongoing discussion to:

- include Emodnet-Bathy DTM in GE
- Collaborate with IHO/GEBCO (Seabed 2030)
- Converge with the AtlantOS project

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## Ongoing actions



- ④ Gather and populate metadata and pre-process source data
- ④ Generate regional basin DTMs
- ④ End of first year reporting
- ④ Coastal interaction between DTM and tidal levels to generate coastlines

Next Steering Committee in March.

## Expectations

### What' next beyond 2018 ?

- Long term data management, build on existing data communities (no duplication of data, systematic use of data flows)
- One single multidisciplinary portal supporting intelligent services (e.g. decision aid, risk assessment),
- Data rights preserved and permanently attached to the data (DRM with linked DOI)
- High interoperability (INSPIRE & S100 compliancy)
- Link between existing data status and the future data acquisition programmes (with a basin coordinator mechanism)

**MERCI !**

