

10 years of EMODnet Biology: past, present & future

Joana Beja, Leen Vandepitte, Ruben Perez Perez, Gizem Poffyn, Dan Lear, Vasilis Gerovasileiou, Peter Herman, Bart Vanhoorne, Lennert Tyberghein

PAST

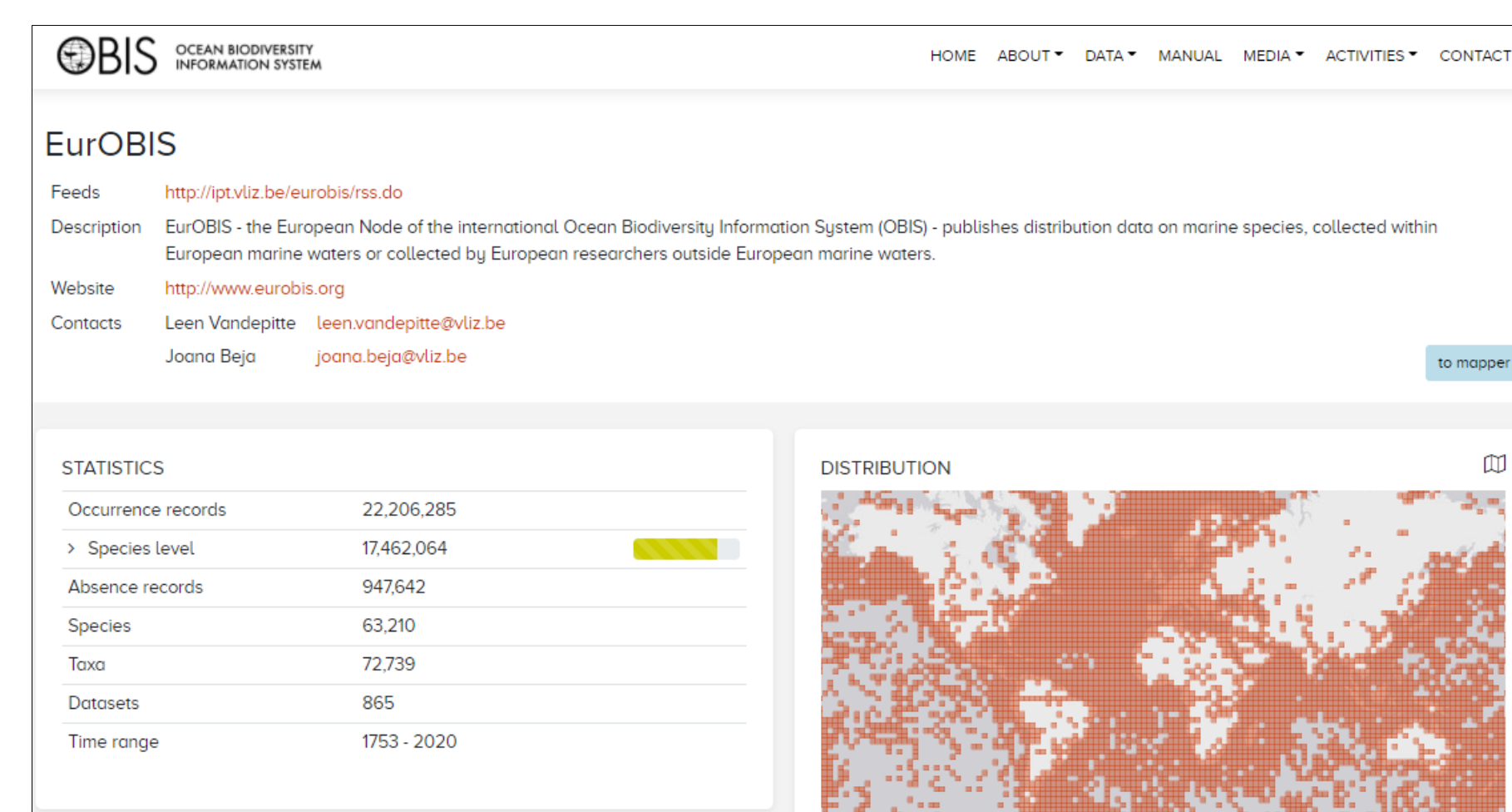
EMODnet Biology builds on the efforts from previous initiatives like **MarBEF** (2004-2009) and **EurOBIS** (2004-ongoing)



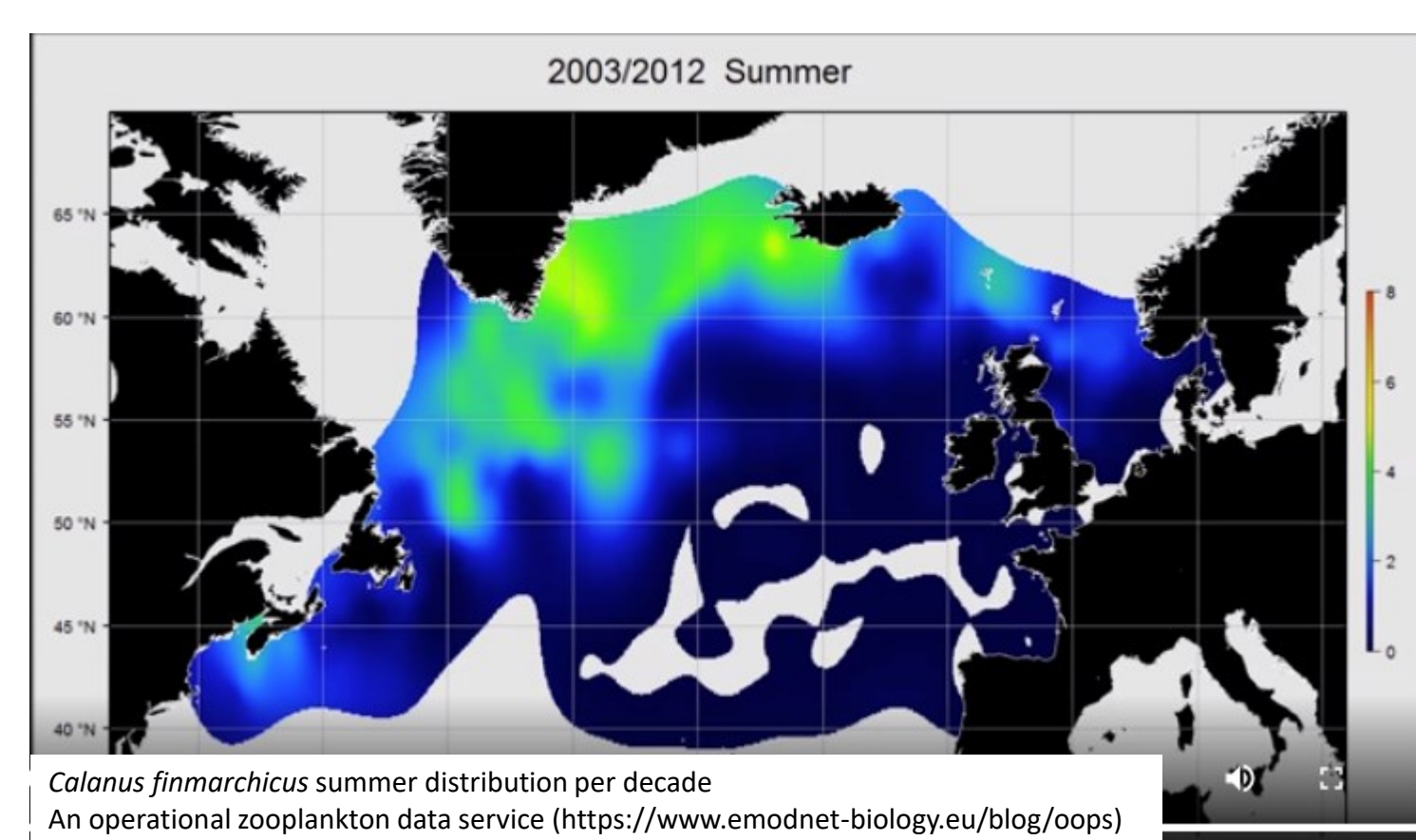
Phase I: set of preparatory actions for a limited set of sea basins to gather experience for the implementation of an operational system.

The portal included a dataset catalogue, data access querying and download. Work was done according to INSPIRE and OGC standards.

Data distributed to OBIS via EurOBIS (the backbone of EMODnet Biology)



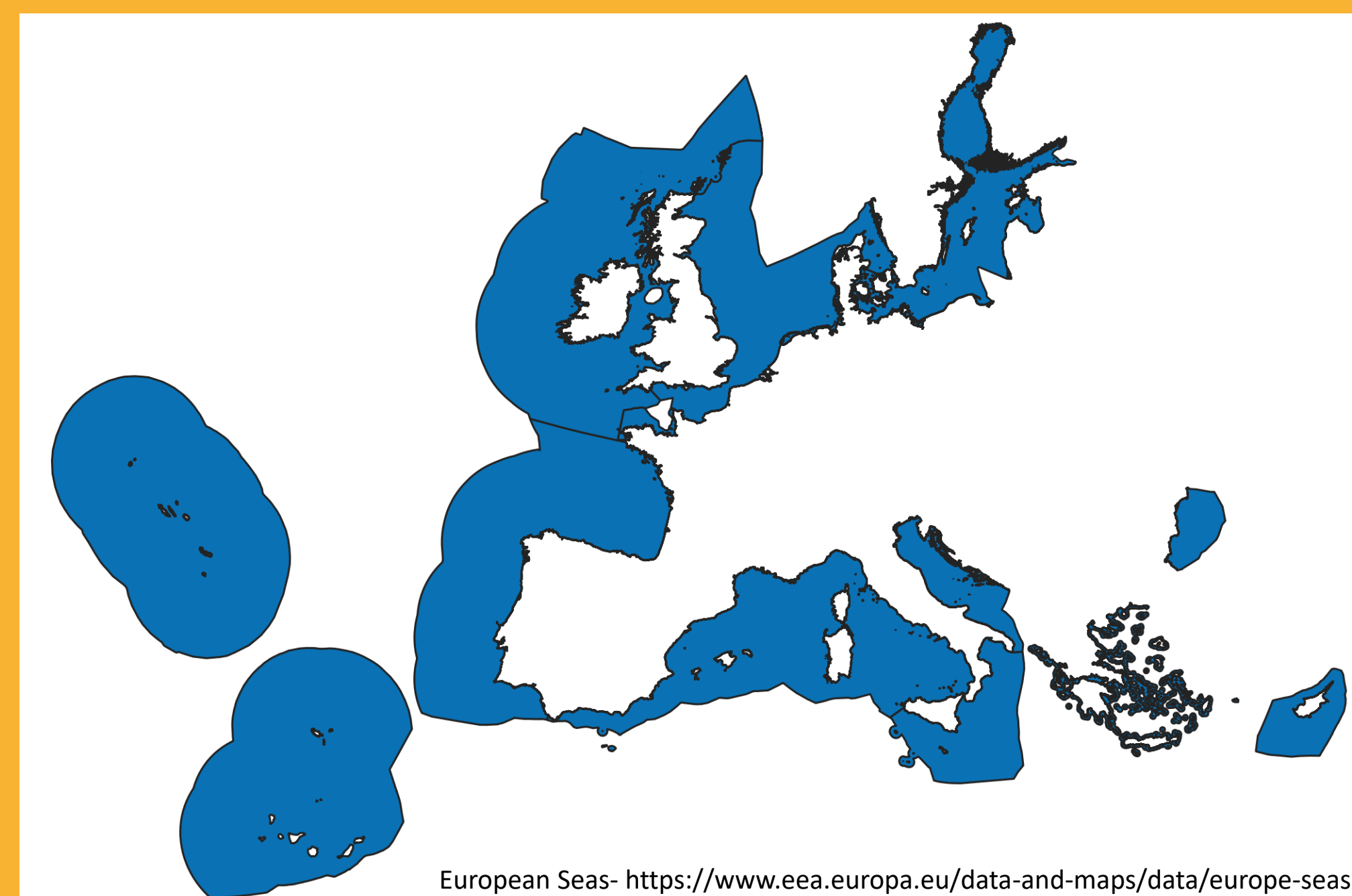
Phase II: consortium of 21 organisations to continue the work carried out in the preparatory action with the aim to freely and openly deliver (meta)data, data products from all European regional seas



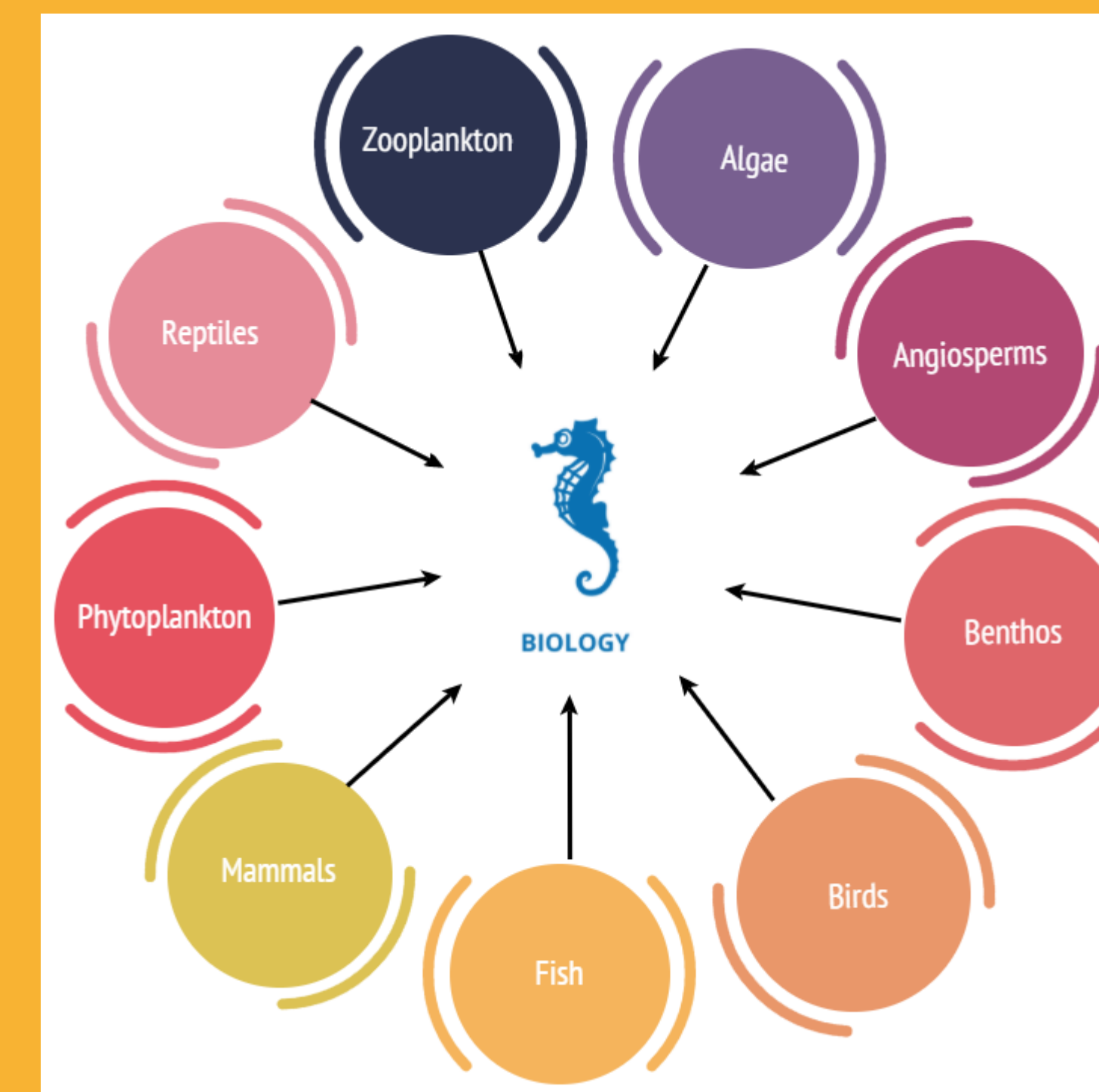
PRESENT

Phase III is now a consortium of 23 organisations, from government agencies, to research institutes and international organisations scattered across various European countries. It covers seven marine regions and nine functional groups.

MARINE REGIONS



FUNCTIONAL GROUPS

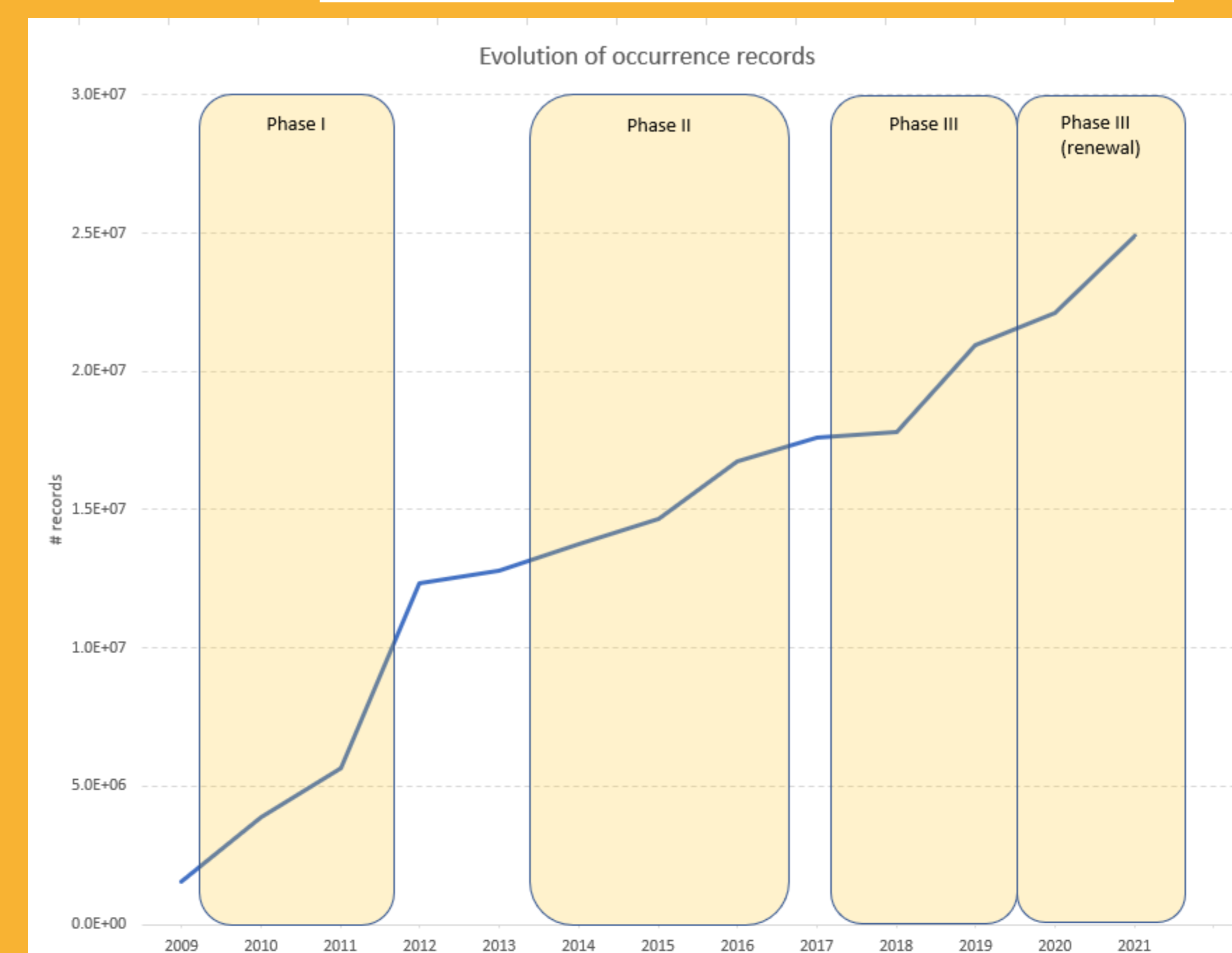
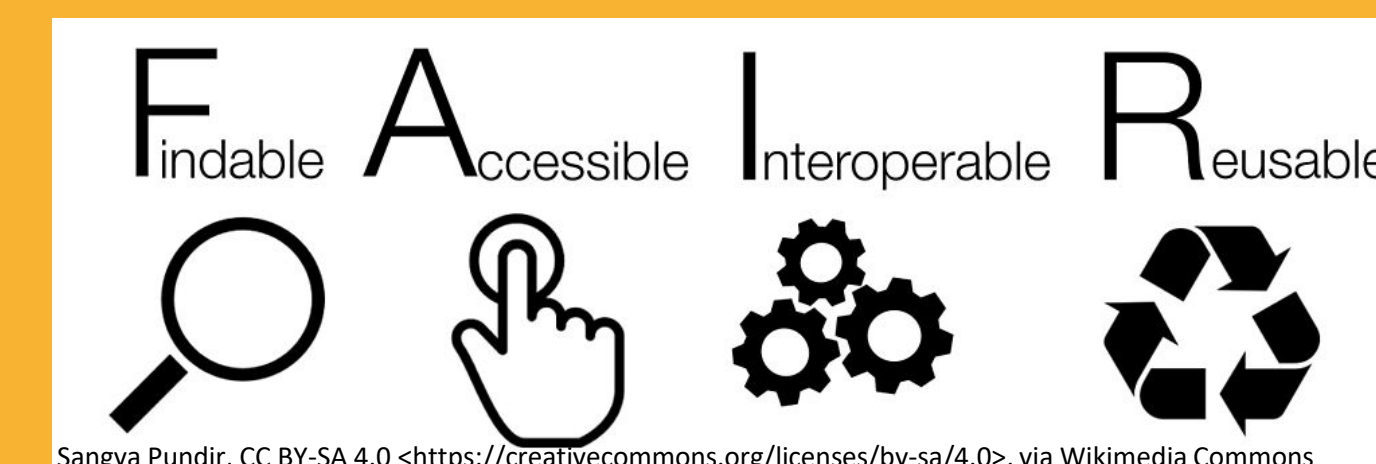


Project facts:

- Adherence to Darwin Core standards (OBIS-ENV extension)
- 1056 datasets with free open online data
- 75% of datasets with CC-BY, 19% CC-BY-NC, 6% other licences
- 88% records passed QC checks
 - taxon matched to WoRMS
 - taxon is at genus or (sub)species level
 - latitude & longitude are different from zero
 - Latitude & longitude within possible boundaries
- 28 data products

Our (meta)data complies with FAIR principles:

- **F**indable
 - via the catalogue <https://www.emodnet-biology.eu/data-catalog>
 - via the download toolbox <https://www.emodnet-biology.eu/toolbox/en/download/occurrence/explore>
 - via webservice <https://www.emodnet-biology.eu/emodnet-biology-api>
- **A**ccessible:
 - via data links included in the metadata records
- **I**nteroperable
 - by using WoRMS Aphia for marine species (www.marinespecies.org)
 - by using Marine Regions MRGIDs in sampling locations (www.marinerregions.org)
 - by using BODC NVS2 vocabularies in extended measurement or facts (www.bodc.ac.uk)
- **R**eusable
 - (meta)data are well described and include provenance
 - license information is available



FUTURE

Phase IV will see the maintenance of most of the consortium with a few new organisations

We will be working alongside various communities and initiatives to develop and implement standards for imagery and -omics data.

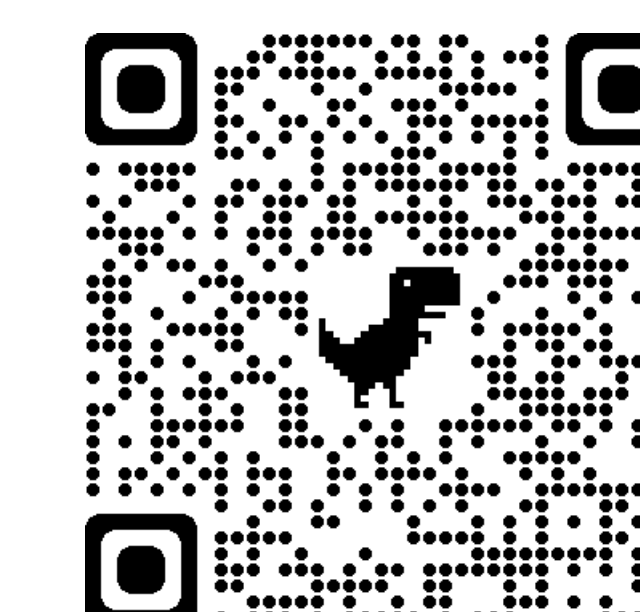


We will be:

- improving our webservice
- Implementing fitness for use label at record and dataset level
- providing data in more file formats
- creating more products that can support Nature Directive/MSFDs and other assessments

Existing resources:

- Course on How to contribute datasets to EMODnet Biology (<https://classroom.oceanteacher.org/course/view.php?id=430>)
- Online QC tool (<https://rshiny.lifewatch.be/BioCheck/>)
- Access EMODnet WFS data through R (<https://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=6654>)



bio@emodnet.eu
info@eurobis.org
@EUROBIS_VLIZ
@EMODNET