This is the summary of the ASSEMBLE Plus FAIR data w/s of June 13-14 2019, at VLIZ Ostende.

The workshop agenda can be found on the links given below. This workshop was part of WP NA2 (specifically NA2.4): *Improving data access and standardisation of genomic and long-term marine biodiversity observations.* Attendees present were from:

- MBA and SAMS from the UK ASSEMBLE+, EMBRC
- CEFAS from the UK
- UGOT from Sweden ASSEMBLE+ (via webex link)
- SZN from Italy ASSEMBLE+, EMBRC
- SBR and CNRS from France ASSEMBLE+, EMBRC
- NiB from Slovenia ASSEMBLE+
- NIOZ from The Netherlands (Carribbean) ASSEMBLE+
- ECIMAT from Spain ASSEMBLE+, EMBRC
- CCMAR from Portugal ASSEMBLE+, EMBRC
- HCMR from Greece ASSEMBLE+, EMBRC
- VLIZ from Belgium ASSEMBLE+, EMBRC

The attendees included data managers and scientists involved in data collection and dataset creation at their institutes. The attendee sign-up can be found on the links given below. Presenters were from VLIZ (various), MBA (Dan Lear), and GFBio e.V (Ivaylo Kostadinov).

The outputs of the workshop were the following:

1. To teach the concepts of FAIR data, in particular for marine biological and genomics datasets
2. Hands-on sessions and demonstrations of using the Marine Data Archive and the Integrated Marine Information System (data catalogue) to archive data and to create metadata records
3. To show the participants how to FAIRify the datasets and data records that are in the ASSEMBLE Plus or their institute's collection in IMIS. Particular emphasis was placed on the Interoperability part of FAIR. Spreadsheets with links to these data records were provided and can be found in the links given below.
4. To discuss the planning that each participant and their institute would undertake to make their datasets and datarecords FAIR, with emphasis in particular on the data that are part of the ASSEMBLE+ collection and which are the subject of NA2.3, and will become part of WP NA2.5: *Set up virtual platform for data analysis*

Following on from the workshop, one2one communication between the VLIZ data centre and the participant institutes will take place. The goal is to assist in the FAIRification of the ASSEMBLE Plus data collection: to improve the existing records, to update where necessary, to remove and add where necessary, archive and publish datasets that are not yet so, to assist in making the datasets interoperable, and where possible to be then uploaded to EurOBIS for biodiversity data and suitable archives for genomics datasets (particularly those from Ocean Sampling Days).

As a reminder, the email addresses to use are the following:
data@embrc.eu for data questions related to the EMBRC and/or ASSEMBLE collection (emails currently go to Katrina Exter and Klaas Deneudt)
data@vliz.be for questions related to the content of IMIS dataset records or MDA files
mda@vliz.be for technical questions about the MDA
imis-support@vliz.be for technical questions about IMIS

The workshop documents can be found on Katrina Exter's google drive, in the Jun19FAIRws folder on https://drive.google.com/open?id=11nuuhQ5VWwl45NkVJ9_yxs1_iAq-PZC2. The subfolders are

1. The presentations can be found on https://drive.google.com/open?id=1Ngr3HUK22ym1Ywlz2SsNoVQtG9XDdVGe. The hands-on material can also be found there. An audio-video of the MDA session that was done on-demand will also be placed there when ready. Finally, a transcript of the questions and answers after the presentations can also be found there.
2. Associated material, including a FAIR primer, the ASSEMBLE+ Data Management Plan, and two reports from Dan Lear on challenges and benefits of data sharing, can be found on https://drive.google.com/open?id=12TFu7gqMMaHFcr4l5xHg-6zUFxbrrikh
3. The dataset records from the participants' marine stations, can be found on https://drive.google.com/open?id=1gzTJnx6tehg9vDwf8IlPO9MYWK-KP5z4. The first IMIS hands-on session material is also there.

Anyone with these links can view and download files.

The happy crowd at the FAIR data management workshop

The happier crowd at dinner