

Good practices and challenges for sharing multidisciplinary scientific data: how the QUAMPO project fits into the FAIR and open science movement?

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- QUAMPO: Multi-biomarkers approach to define the ecological status of Corsican ports
- Relied on a set of practices and faced number of challenges in order to share FAIR and open science data

Objective: offers the managers and the scientific community the first, to our knowledge, completely open database on marine biomarkers

Data dictionary

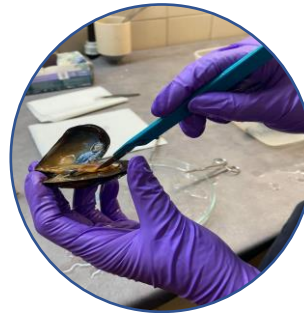
Challenges encountered:

- Difference of vocabularies in a multidisciplinary project
- Changing protocols during an experimental project

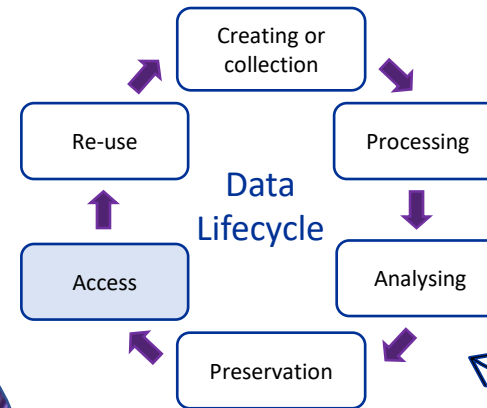
Solutions:

- Use of the Darwin Core, of ontologies and of Skos
- Use or creation of DOIs

Take home message: international and national outreach of the database by its opening to other monitoring projects



Analysis of a specimen of *Mytilus galloprovincialis*



Data paper

Challenges encountered:

- Collaboration of a large and geographically distant team

Solutions:

- Paper sprint: collaborative method of writing an article



Open database

Challenges encountered:

- Opening of not-FAIR data
- Making FAIR and public data originally made for internal use
- Create a base able to host other similar projects
- Accessibility of private data

Solutions:

- Curation (cleaning + enhancement) of data
- Universal variable naming
- Adding some data from the QUALIPERTUIS project of the LIENSs
- Data "as open as possible, as closed as necessary"

References



- Littoral, Environnement et Sociétés (LIENSs), UMR 7266 CNRS – La Rochelle University, 2 rue Olympe de Gouges, 17000 La Rochelle, France
- Station de Recherches Sous-marines et Océanographiques (STARESO), Pointe Revellata, BP 33, 20260 Calvi, France
- European Research Infrastructure on Highly Pathogenic Agents (ERINHA), 98 rue du Trône B-1050 Bruxelles, Belgium
- Oceanology Department, MARE centre, University of Liège, 15 Allée du 6 Août, Sart Tilman, B6c, 4000 Liège, Belgium
- Centre of Documentation, Research and Experimentation on Accidental Water Pollution (CEDRE), 715 rue Alain Colas, CS 41836, 29218 Brest cedex 2, France