Using B2Drop in ROHub as personal storage for research artefacts

EOSC ask me anything webinar

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Reliance project coordinator

The EOSC Future, C-SCALE, DICE, EGI-ACE, OpenAIRE-Nexus and Reliance projects are funded by the European Union Horizon Programme calls INFRAEOSC-03-2020 and INFRAEOSC-07-2020.

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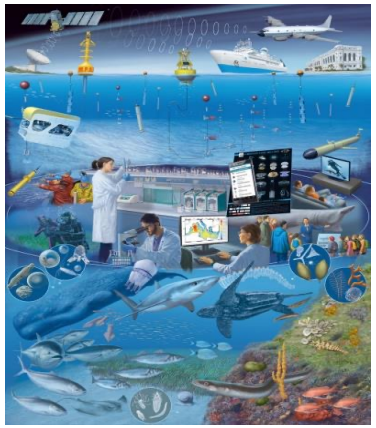
Reliance overview

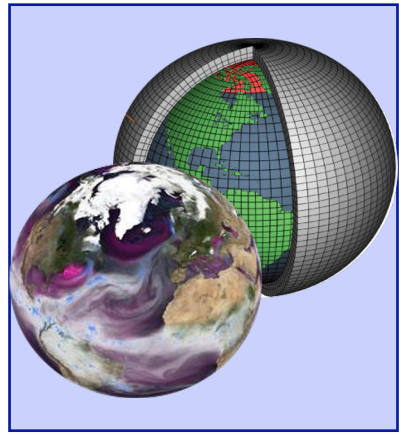
REsearch LIfecycle mAnagemeNt technologies for Earth Science Communities and CopErnicus users in EOSC

- RELIANCE seeks to ***extend the EOSC's capabilities*** with an enhanced support for ***research activities*** through a set of industry-strong, innovative, ***interconnected services***, and in alignment with the ***EOSC IF***.
- Adopting a holistic research mgmt. approach, it will ***enhance the discovery*** of and access to research data/results (incl. ***Copernicus*** data), improve the ***extraction*** of relevant information, ***managing the research lifecycle*** while promoting ***FAIR*** *and* ***open science*** principles.
- Reliance will pilot and demonstrate its services' value via ***3 Earth Science communities*** and others engaged via an ***Open Call,*** fostering the use of ***Copernicus data***, with the aim to enhance EOSC support for ***multidisciplinary*** research and to improve EU science as a whole



Sea Monitoring

Geohazard



Climate change

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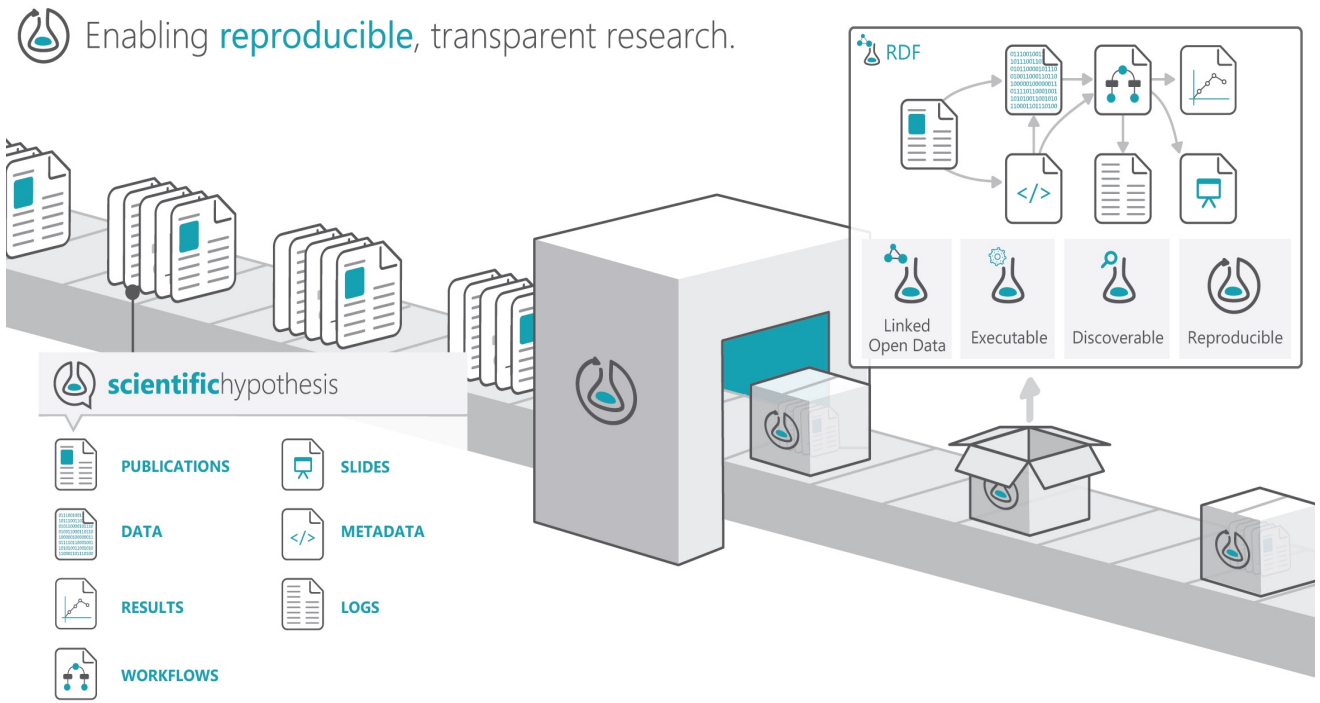
Research Objects - overview

Goal: Account, describe and share everything about your research, including how those things are related



http://www.researchobject.org

- **Unique identifier**, e.g. DOI
- **Hypotheses**
- **Data** used and results produced
- **Methods** employed to produce and analyse data
- **Scientific workflows** implementing such methods
- **Provenance** of their executions
- **Versioning** information
- **People** involved in the investigation
- **Annotations** about these resources
- …

RO-Crate

Workflow 4Ever

RoHub everest

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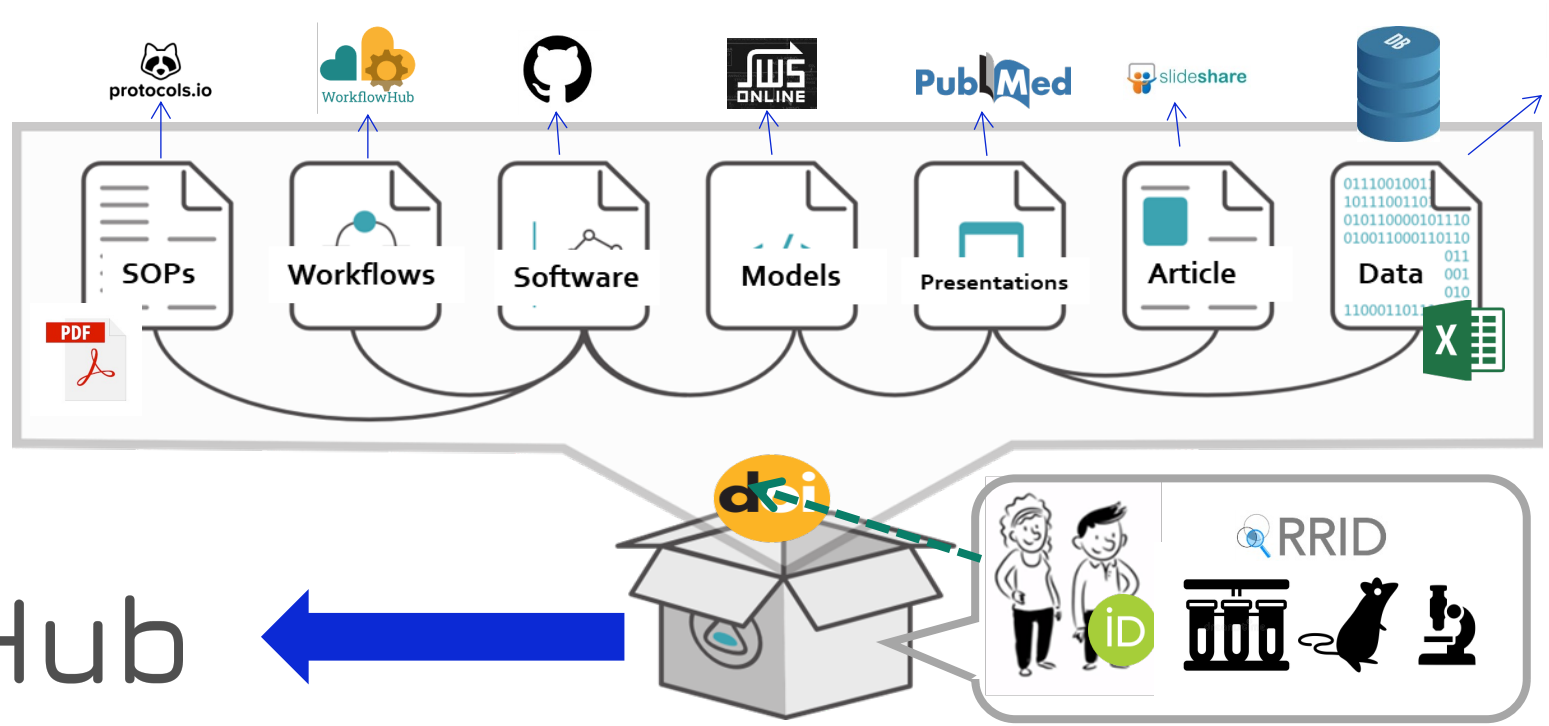
Encapsulated content and references to external resources

Integrated view over fragmented resources using PIDs and metadata

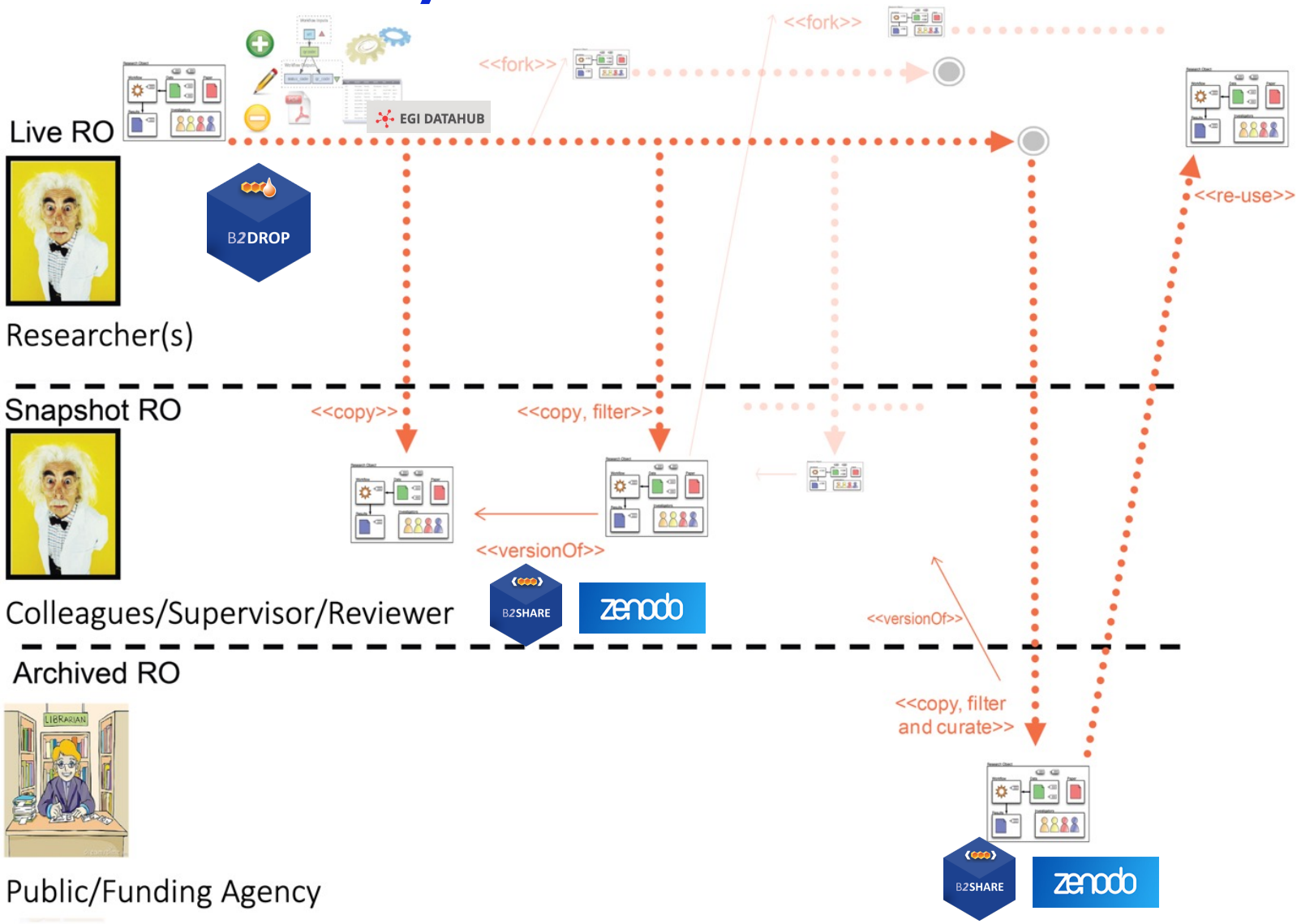


RoHub

The RO package has its own metadata, can be registered and deposited in its own right, unpackaged and accessed, activated and reproduced if appropriate

Management of Research Lifecycle (via ROs in EOSC)

- Researchers produce/generate multiple resources during the research lifecycle
- These resources are in many cases scattered and not easily shareable (e.g., locally stored)
- These resources may be in other cases too large to keep locally
- B2Drop can be used as a personal storage space to store these resources, managed transparently by ROHub
- ROs will connect and describe these resources, serving as entry point to the research's resources



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Using B2Drop in ROHub

Overview | Content | Quality | Activity | Life cycle | Relations | Impact

PUBLIC MANUAL LIVE DATA RESEARCH OBJECT

EARTH SCIENCES

Created: 08 November 2021 (22:06)

Analysis of MOD_Aqua mass concentration chlorophyll concentration in sea water

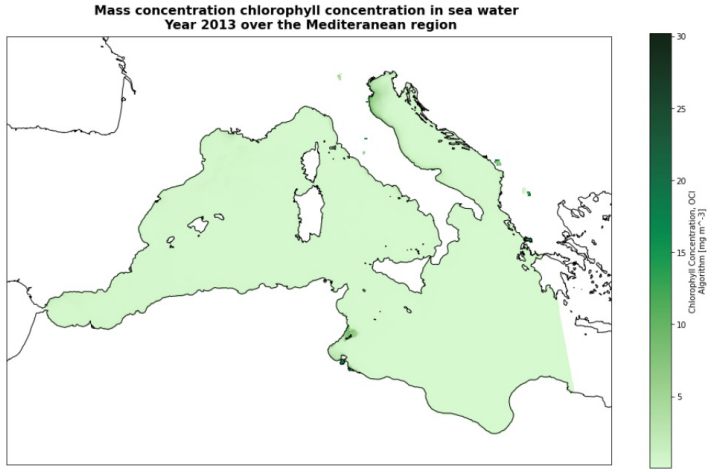
Anne Fouilloux

Last modified: 08 November 2021 (22:16)

Description:

This Research Object aggregates the resources associated with the analysis of MOD_Aqua mass concentration chlorophyll concentration in sea water

Sketch:



CONTENT

- Jupyter Notebook for using ADAM-API to access MODIS Aqua
- Mass concentration chlorophyll concentration in sea water Year 2013 over the Mediteranean region

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Size	103.98 KB

AGENTS

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QUALITY 0%

TOOLBOX

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Fouilloux, Anne. "Analysis of MOD_Aqua mass concentration chlorophyll concentration in sea water." ROHub. Nov 08 ,2021. https://w3id.org/ro-id/9e533d0d-b1de-4b0d-9dd8-14d136aacea5.

Research Object editting

Basic information | People & organizations | Tags | Sketches gallery | Resources | Related locations | License & Funding | Advanced metadata

Basic information

People & organizations

Tags

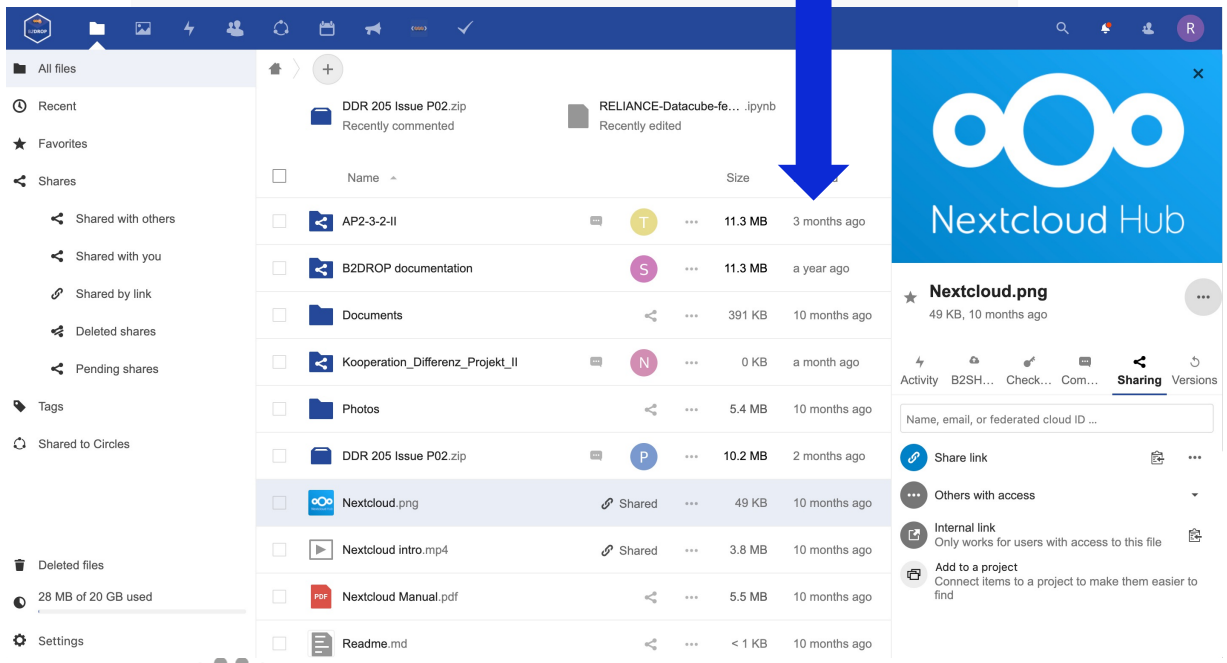
Sketches gallery

Resources

Home

Name	Details	Created	Creator
Jupyter Notebook for using ADAM-API to access MODIS Aqua		08 November 2021 (22:09)	Raul Palma
Mass concentration chlorophyll concentration in sea water Year 2013 over the Mediteranean region		08 November 2021 (22:08)	Raul Palma

Drag and drop files here...



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Key points

- B2Drop is a valuable service for researchers in Reliance to keep their research data synchronised and up-to-date and to share them with other researchers.
  - It is used as personal storage space by researchers
  - Complements other DICE services used in Reliance, i.e., DataHub as a community space, and B2Share as publication service (for research objects snapshots)
- Research objects in Reliance can connect resources in B2Drop with other resources used/produced in a research work, which may be scattered in different locations.
- ROHub is being integrated with B2Drop to allow researchers to use B2Drop as the default storage for internal resources.
- The integration is being done using user credentials (via the user token).
  - To allow the researchers to access the resources aggregated by his/her research objects also via the B2Drop dashboard.

See you next time!

Thanks for joining us today.
Don’t forget to attend our next ask me anything webinar

Software

01 March 2022

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