EOSC-Life : Build the Life Science European Science Cloud

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EOSC-Life in a nutshell

- Started in 2019 – ends in 2023
- 13 ESFRI in Life Sciences, 47 Partners and 17 linked 3rd parties
- 26 M€
- Two WPs added in 2020 in response to the COVID-19 crisis
EOSC Life partners and solutions were quickly mobilized to:

- foster collaborations: International COVID-19 Biohackathon + Cloud resources
- Frontloading of open tools and workflows: [https://workflowhub.eu/](https://workflowhub.eu/) , [https://usegalaxy.eu/](https://usegalaxy.eu/)
- Build a repository for COVID-19 clinical trial data
Populating the EOSC with Data

- FAIRsharing EOSC-Life collection with more than a 100 of datasets: https://fairsharing.org/3513
- Provenance standard for life science data (ISO 23494) describing all the history of the data, including sensitive data and compliant with the Nagoya protocol + EML technical implementation
ELIXIR CONVERGE: upscaling the support to research data management

- 2019 – 2023
- 5M€ + 4M€ pour 3 WP COVID 19
- Complement/in synergy with EOSC Life

Major outputs:
- ELIXIR RDM community
- RDMkit: collaboratif knowledge portal in support to Data Management Planning

https://rdmkit.elixir-europe.org

Expert Network
Trainers
Domain experts

Pool the expertise of the community for the community

Best practices
Tools
Bio.tools
Services
Data Stewardship Wizard
Resources
FAIRcookbook
Standards
FAIRsharing
Training
TeSS

Tripartite EOSC France, Montpellier 13-14/06/2023
Packaging tools and workflows for use in the cloud

- **WorkflowHub**
  - a registry of scientific workflows to make them more findable
  - Adoption par Australia BioCommons

- **RO-Crate** ([https://www.researchobject.org/ro-crate/](https://www.researchobject.org/ro-crate/))
  - formalize packaging of research data with structured metadata (including provenance) using schema.org.
  - Integrated in workflowhub and Galaxy.
  - Adopted by projects/infrastructures to create FAIR digital objects (e.g. DISSCO SYNTHESIS +, Biodiversity Genome Europe)
- **Cloud deployment and cloud resource**
  + identification of suitable providers for sensitive resources

- **Providing access:** **LS LOGIN system**

- **Connecting, informing and training users**
Thank you!

Sources: