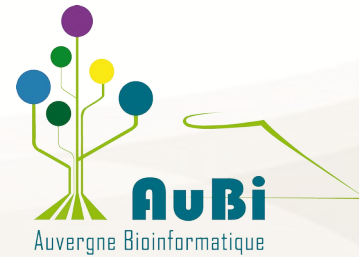


FAIRing Research Data to Live



Nadia Goué

AuBi platform – Clermont-Auvergne Mesocenter
Institut Français de Bioinformatique



4th of April 2024

Community of AuBi users

202 accounts
in march, 2024

Journée "Cycle de vie des données en biologie"



Diversity of Biologists and Data

Sequences



Images



Quantitatives
Qualitatives



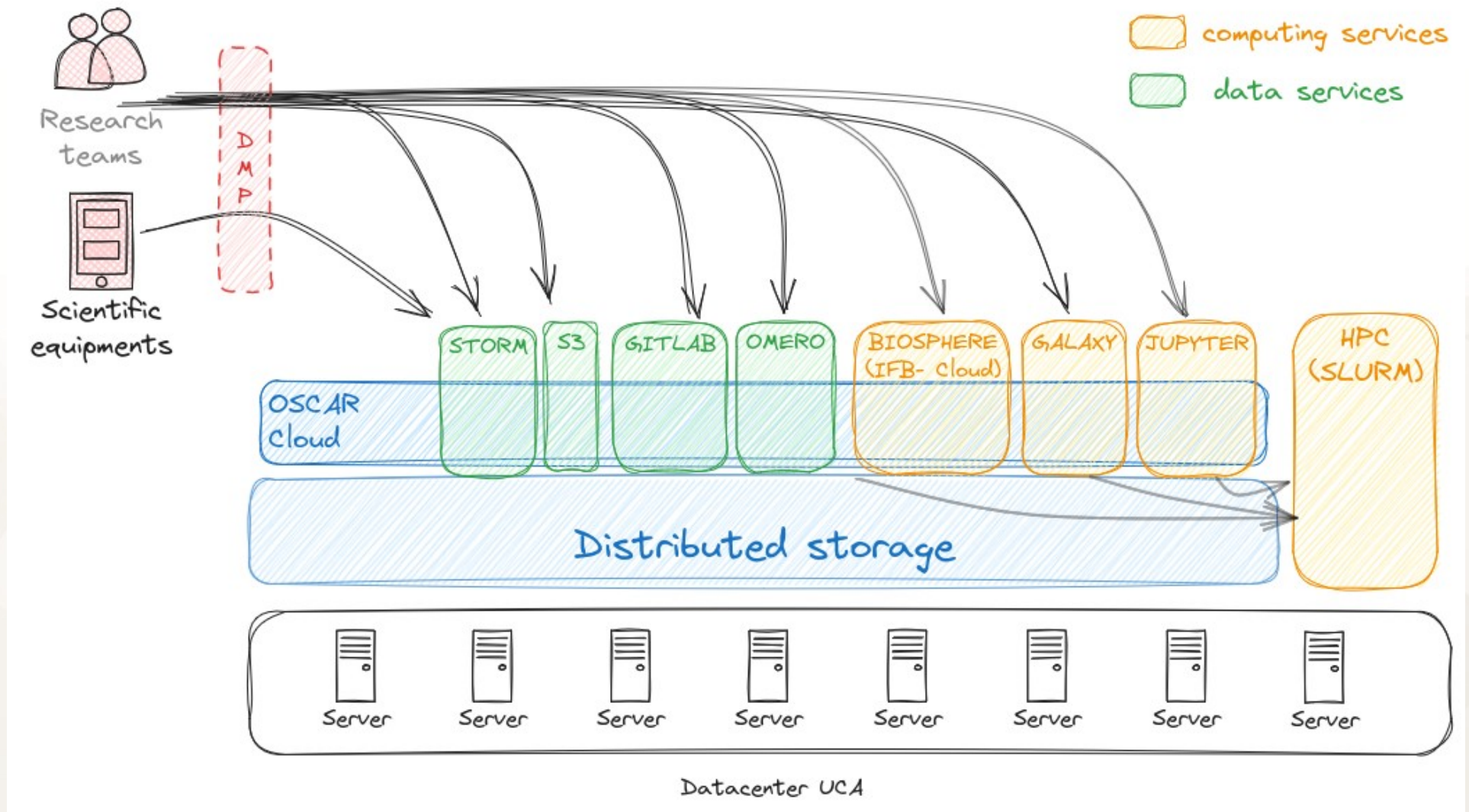
Digital models



Journée "Cycle de vie des données en biologie"



Datacenter & Mesocenter Infrastructures



Data Management Plan

Guidance and support : « Atelier de la donnée » - Mesocenter – AuBi

DMP for Mesocenter and AuBi services

INIST

Data Steward Wizard & IFB  MUDIS4LS
Mutualised Digital Space for FAIR Data in Life and Health Science



DMP OPIDoR

Tableau de bord Créer/Importer DMP publics Modèles de DMP

Vous pouvez choisir un formulaire différent

- Formulaire standard (stockage et sauvegarde des données)
- Formulaire Genci (stockage et sauvegarde des données)
- Formulaire GenOuest (stockage et sauvegarde des données)
- 6. Formulaire Mésocentre Clermont Auvergne (stockage et sauvegarde des données)**
- Formulaire Meso@LR (stockage et sauvegarde des données)
- Formulaire SPD-CNRS (stockage et sauvegarde des données)
- Formulaire standard (stockage et sauvegarde des données)

0.1 Comment les données seront-elles partagées ?



Search projects... Updated ↑ Project Template Univ Clermont Auvergne

Search project tags... OR

- Univ Clermont Auvergne
- CNRS
- CNRS LBDV UMR700
- INRAE-MycSA
- Institut Curie

CLIC - UCA · PGD structure développé par l'IFB 2.4.16

AuBi Bioimagerie · PGD structure développé par l'IFB 2.4.16

PGD_PPM_MTH_2.3.21 · update available · PGD structure développé par l'IFB 2.3.21

Data Storage services

STORAGE for Research at Mesocenter

- ✓ File-based storage for internal laboratory data
- ✓ Security, Backup
- ✓ One Referent person per lab
- ✓ Terms of Use
- ✓ Guidance for DMP deposit



Data Storage services

FAIRisation of Image Data by Metadata Storage Management

omero.mesocentre.uca.fr

- ✓ Adding a “Public” folder with the possibility to get an DOI
- ✓ Guidance for metadata
- ✓ Training

50 active users
12 projects
3 To

The screenshot displays the OMERO web interface. At the top, there is a navigation bar with the OMERO logo and menu items: Data, History, Help, Figure, Tag Search, and Admin. Below this, a 'Training' dropdown menu is visible. The main interface is divided into several sections: a left sidebar with 'Explore', 'Tags', and 'Shares' tabs; a central area showing a file explorer with a tree view containing 'Training 1' and 'Experiment 33', with several image files listed below; a grid of image thumbnails in the center; and a right sidebar with a search bar and a 'Run Script' button. A context menu is open over the thumbnails, showing options: 'back', 'cluster', and 'util_scripts'. The bottom right corner of the interface shows 'Dataset ID:' and 'Owner:' fields.

Computing services

Microservices for PFEM

- ✓ metabocloud.mesocentre.uca.fr improved with FAIRChecker*



Welcome on the MetaboCloud catalog !

Annotation Cheminformatics JSON Web Service

CDK - RESTful API
Compute chemical properties, depict or convert a molecule.

[details](#)

[Swagger](#) [ReadTheDocs](#)

Annotation JSON Web Service

InChi - RESTful API
Produce InChI/InChIKey identifiers of chemical compounds.

[details](#)

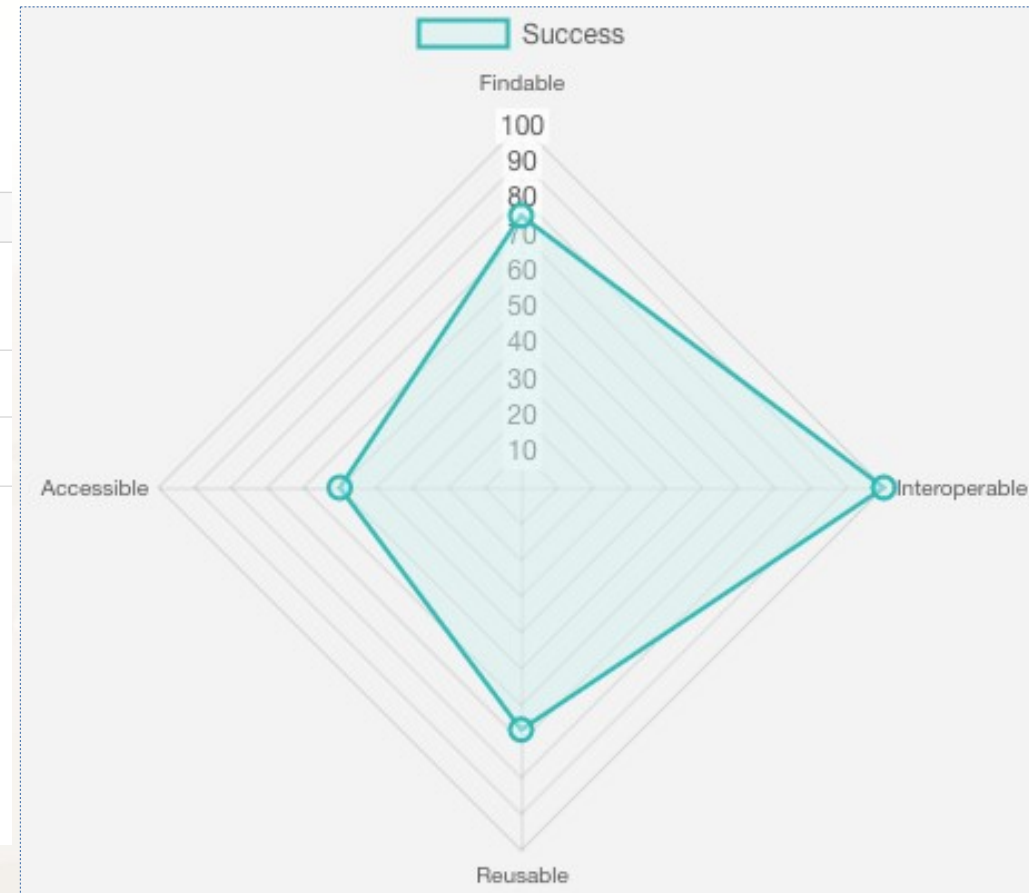
[Swagger](#) [ReadTheDocs](#)

Annotation Curation JSON Lipidomics Metabolomics Web Service

Goslin - RESTful API
Translates lipid names into a standardized name according to lipid shorthand nomenclature.

[details](#)

[Swagger](#) [ReadTheDocs](#)



Computing services

FAIRisation with Reproducible Workflows in Galaxy

galaxy.mesocentre.uca.fr

87 active users
30 To


- ✓ Open access tools
- ✓ Active communities : Hackathons [bio.tools]
- ✓ Galaxy Working Group & Eurobiolmaging
- ✓ Enable reuse of **workflows** [DOI]
- ✓ Galaxy Training Network

A Dashboard for project management at

2022: AuBi joined the project



InDEPTH Everything saved


 InDEPTH


Investigation


The InDEPTH (Impact of Nuclear Domains on Gene Expression and Plant Traits) Academy: a comm


Add a Datalink

Choose a tool

 Galaxy

 SSHFS

 Omero

 LabGuru

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Christophe Blanchet

DMP DSW

Paulette Lieby (IFB)

Sophie Desset

Franck Giacomoni

Mélanie Petera (PFEM)

MADBOT Team

Interop & Open Science group

Journée "Cycle de vie des données en biologie"

