

National Coordination

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#ELIXIRis10

National Coordination

Anne-Françoise Adam-Blondon

Head of Node, ELIXIR France

The French Institute of Bioinformatics (IFB) is ELIXIR-FR, the French Node of ELIXIR

IFB is a distributed French National Research Infrastructure

 36 platforms and research teams spread all over France

Coordination: IFB-core

 Multi-research organizations : CNRS, Inserm, INRAE, CEA

Common resources

 Supported by the French Ministry of Higher Education and Research since 2012

A large set of expertise in bioinformatics

>400 experts (~200 FTE)



IFB/ELIXIR-FR has a large set of domain of applications

IFB's domains of application encompass the three scientific priorities of the 2024-2028 programme of ELIXIR



Connect the latest developments and established data resources to realise the potential of cellular and molecular biology



The promise of genomics research to improve health and disease outcomes

Provide the infrastructure to support the discovery, access, sharing and analysis of human genomics data and linked data on a massive scale



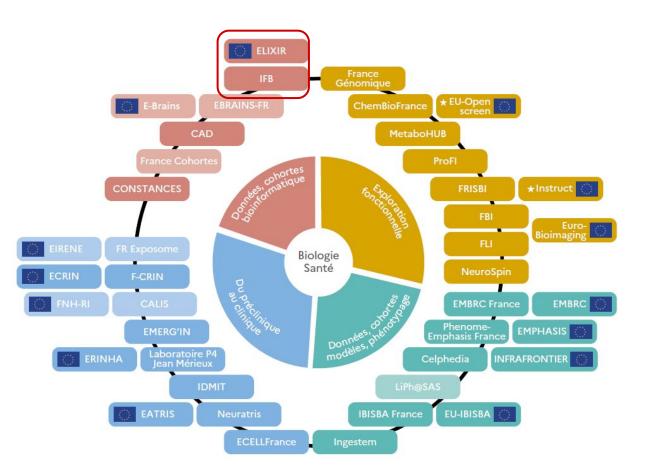


Biodiversity, food security and pathogens are interrelated societal challenges

Mobilise and integrate molecular data to support transnational research programmes in biodiversity, food security and pathogens

IFB-ELIXIR-FR is part of the French network of national Research Infrastructures in Life Sciences

- Contribution to transversal activities addressing common challenges
 - Multi-research organizations governance
 - FAIR data management and data interoperability
- Partnership in large national projects
- Enhance partnerships in ELIXIR activities and in European projects





IFB-ELIXIR-FR is contributing to ELIXIR's activities

- Liaising and networking with all platforms and most of the communities and contributing to their activities
- Co-coordinating and contributing to the strategic planning of some of them =>
- Contributing to European projects: 9 since 2020



ELIXIR Platforms bring together experts from Nodes to develop ELIXIR's technical vision and coordinate activities in defined technical areas. There are five Platforms: Data, Tools, Interoperability, Compute and Training.



Tools Platform Helps researchers find the best software tools to analyse their data.



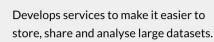
Interoperability Platform

Develops and encourages the adoption of standards to describe life science data.

Aims to identify k across Europe and

Aims to identify key data resources across Europe and support the linkages between data and literature.

Compute Platform



Training Platform

Helps scientists and developers find the training they need, and also provides that training.



IFB-ELIXIR-FR's 2022-2025 road map and organisation in transversal Task Forces





National activities

- Software development task force
 - Sharing good practices for development
 - Sharing recipes for deployment

Deployment of environments for analysis

E.g. <u>Usegalaxy.fr</u> (metabolomics, proteomics, covid19, ...)

Tools development and deployment	2021	2022
New tools	19	16
Number of unique users of the platforms web tools	573 244	352 644
Number of uploads of the tools developed by the platforms	16 912	24 307





Vincent Lefort

Hervé Ménager

ELIXIR Tools PF coord

EDAM steering committee



Anthony Bretaudeau Elixir Galaxy community



Olivier Sallou Elixir Tech Coord

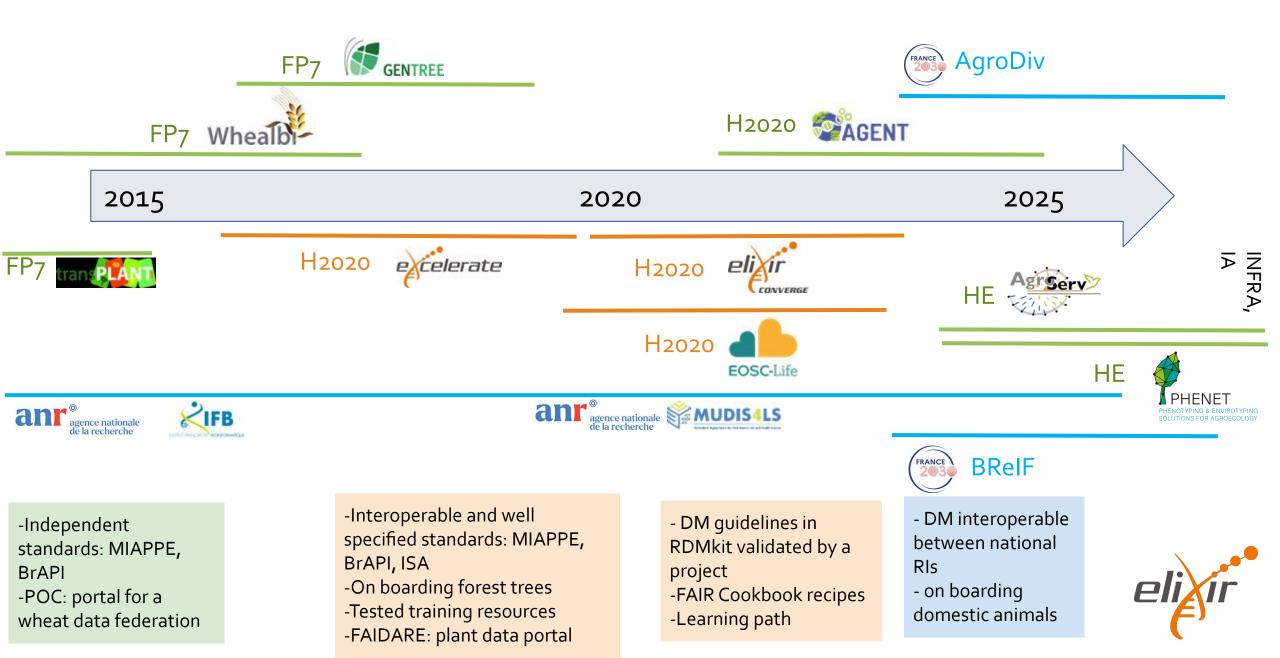
International/ELIXIR activities

- Service Delivery Plan ELIXIR-FR: labelling of French services
- Involvement in the coordination of the ELIXIR
 Tools Platform (Hervé Ménager): contribution to the strategic planning, coordination of activities, outreach, good practices
- Involvement in strategic projects for the ELIXIR Tools platform: BioContainers (Olivier Sallou) Dynamic deployment of virtual environments



 Involvement in the ELIXIR Galaxy community (Anthony Bretaudeau): contribution to <u>usegalaxy.eu</u>

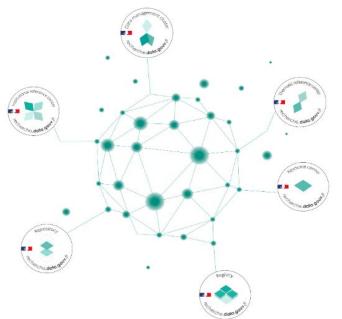
Data management in the Plant Science community: another example of synergy



IFB/ELIXIR-FR in the national « ecosystem » supporting Open Science

- 2022: the French Ministry of Research and Higher Education launches Recherche Data Gouv
- IFB/ELIXIR-FR is mandated to organize a « thematic reference center » for Life Science data :
 - Development and dissemination of data standards
 - Support to data management and data curation
 - Data brokering
 - Harvesting data for the national data catalog

Recherche Data Gouv at a glance



Modules to support research teams on all issues linked to data:

- Data management clustres
- Thematic reference centres
- Resources centres
- Institutional reference centers

Modules to deposit, publish and disseminate data:

- A repository to deposit and disseminate data
- A registry to search for data published in the repository itself or other external repositories



