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PRESS RELEASE

The PIA3 project Shared digital spaces for life sciences (MuDiS4LS) outlines the next roadmap of the French Institute of Bioinformatics

The IFB / ELIXIR-FR infrastructure is very pleased to announce that the MuDiS4LS (Mutualised Digital Spaces for FAIR Life Sciences) project has been selected for funding. This project answered the ANR call *Structuring Equipment for Research* (ESR/Equipex +), which aimed at rationalising the French digital space and at pooling human and material resources. Communication from Ministry on the selected projects

The IFB submitted an ambitious project ***Mutualised Digital Spaces for FAIR data in Life and Health Sciences*** **(MuDiS4SL)** gathering39 teams from 14 organisations, with a total investment in staff of 2.5 persons•centuries (I.e. 3,000 persons•months), 4 national data centres (IDRIS, CCIN2P3, CINES et TGCC), 7 regional data centres and 6 national data-producing infrastructures (France Bioimaging, France Life Imaging, France Génomique, EMBRC France, FRISBI, Phenomin). The allocated budget amounts to 16.5 M€, which will fund servers totalling 30,000 CPU-core, 138 GPU cards, 20 PB of capacitive storage, 3 PB of fast storage and 6 PB of distributed backup storage, which will be pooled to provide hosting, computing and storage services for 22 IFB platforms, and will allow 13 people to be recruited to ensure the start-up of the services. The project has received strong support from the supervisory authorities (CNRS, INRAe, Inserm, CEA et INRIA), which have committed to maintaining 7 posts over the next 4 years. In total, 24 IFB platforms will received equipment or services within the framework of the MuDiS4LS project.

MuDiS4LS builds on the previous skills and experience of the IFB platforms: the **national network of IT resources** (NNCR) and its shared task forces; the active development of the interoperability working group; the machine usable Data Management Plans (maDMP); support for life sciences and health communities to deposit their data in international open access repositories (data brokering).

It also includes a strong training component to empower life scientists to manage, analyse and share their research data.

The relevance of the project for the end-user communities will be demonstrated through 3 case studies covering various application areas and addressing the **issue of multi-omics data integration and sharing**: (1) combining imagery data with other omics data; (2) marine biology; (3) health (addressing the challenges of health data hosting); (4) microbial research; (5) agriculture.

Overall, **MuDiS4LS will promote Open Science** by providing life scientists with all the keys to make their data findable, accessible, interoperable and reusable (FAIR).

About IFB

The IFB is the National Bioinformatics Infrastructure that provides support, deploys services, organises training and carries out innovative developments for the life sciences and bioinformatics communities, both academic and private. The IFB federates 31 bioinformatics platforms affiliated to the main French research organisations (CNRS, INRAe, Inserm, CEA, INRIA)
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