

EOSC-Pillar

Coordination and Harmonisation of National & Thematic Initiatives to support EOSC

Points forts de l'EOSC-Pillar

Journée EOSC France 2022, 4 avril 2022

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EOSC-PILLAR
CONSORTIUM

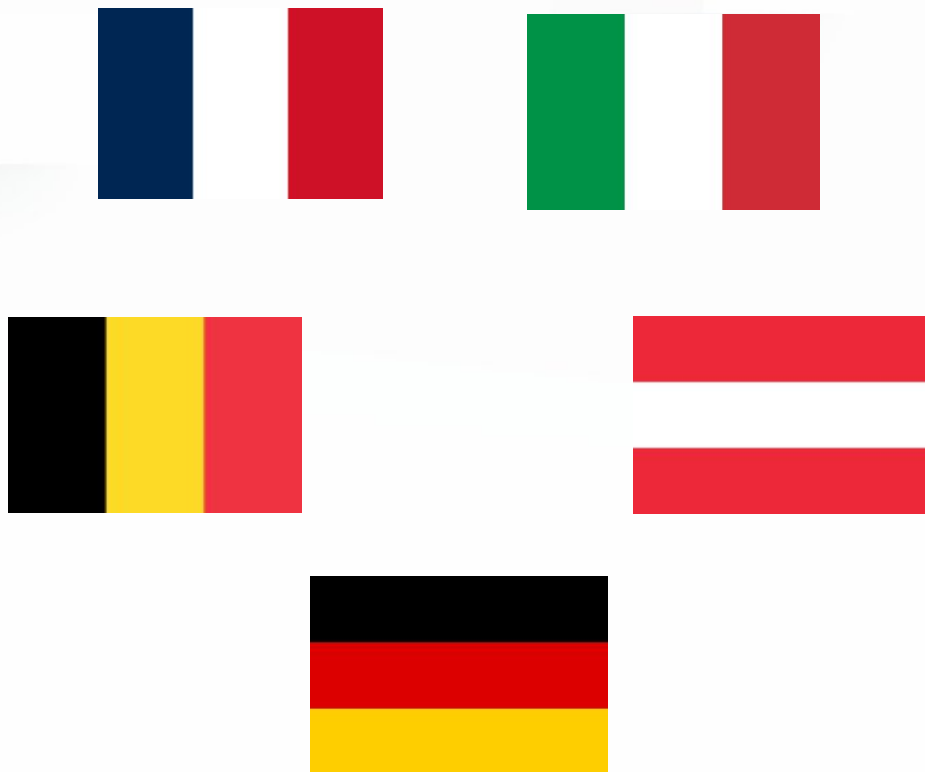


EOSC-Pillar has received funding from the European Union's Horizon 2020 research and innovation Programme under Grant Agreement No. 857650.

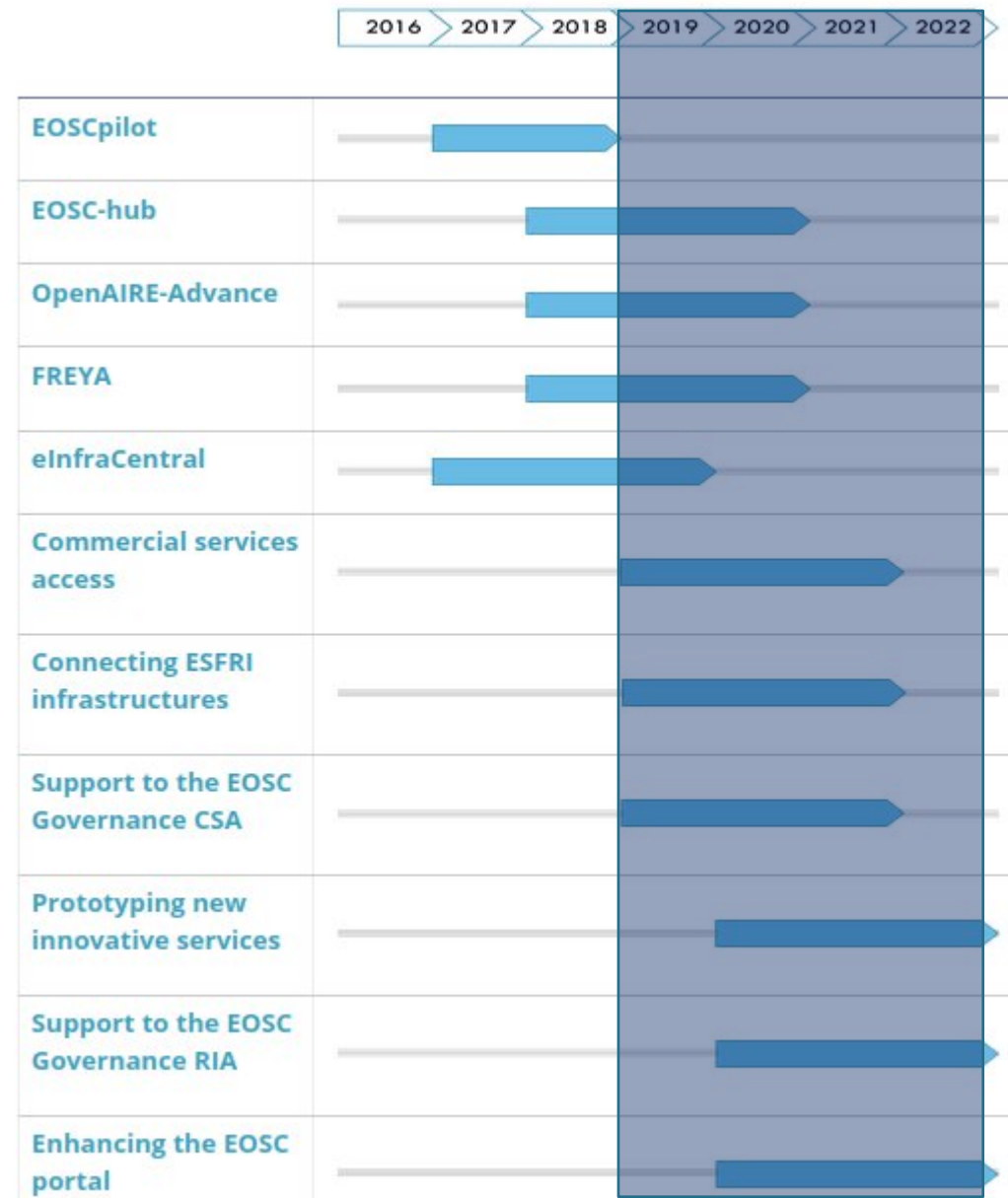
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Contexte du projet

* Projet régional (INFRAEOSC5b)



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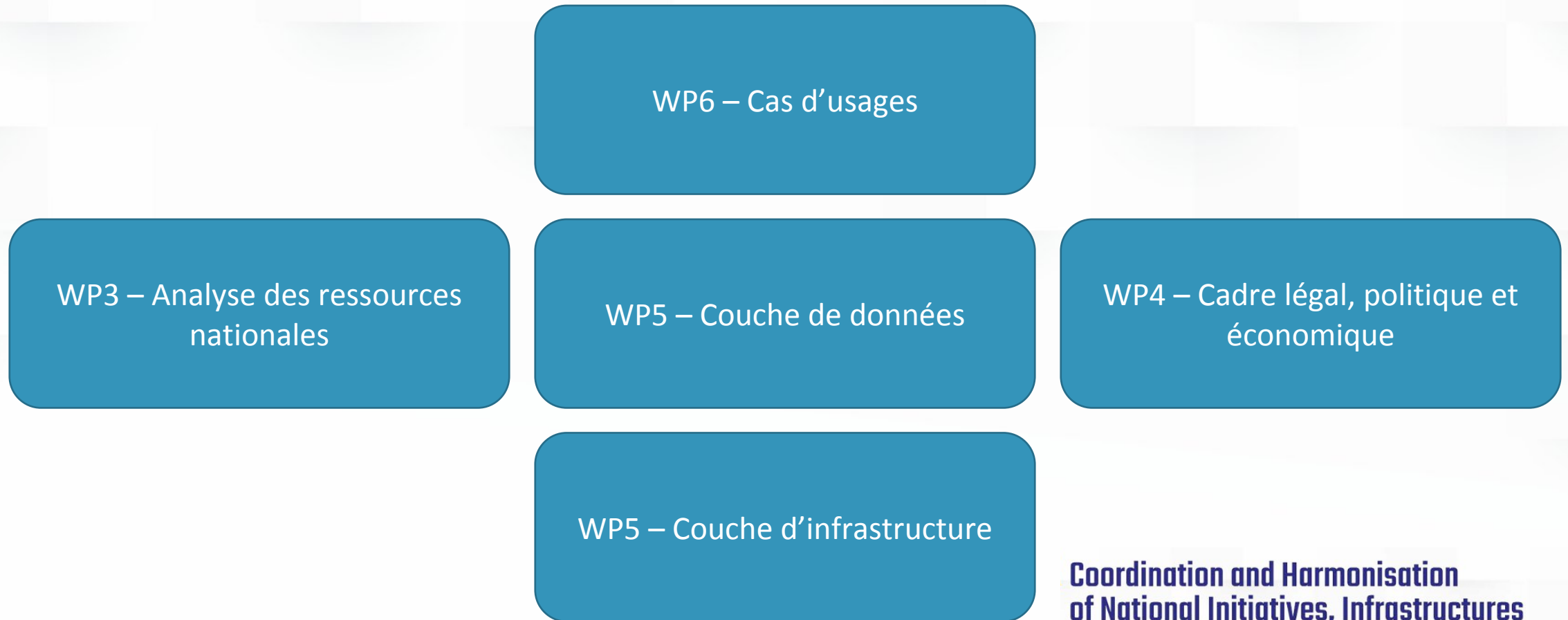


Contexte du projet



Le Franc, Yann. “EOSC-Pillar : un projet européen pour soutenir l’intégration des acteurs français dans la mise en place d’EOSC”.
Présentation lors de la conférence **Journées European Open Science Cloud France 2021**, France, Février, 2021. Consulté le 02 avril 2022,
<https://eoscfrance.sciencesconf.org/342980>

Organisation du projet



**Coordination and Harmonisation
of National Initiatives, Infrastructures
and Data services in Central and Western Europe**

Temporalité du projet (千里)

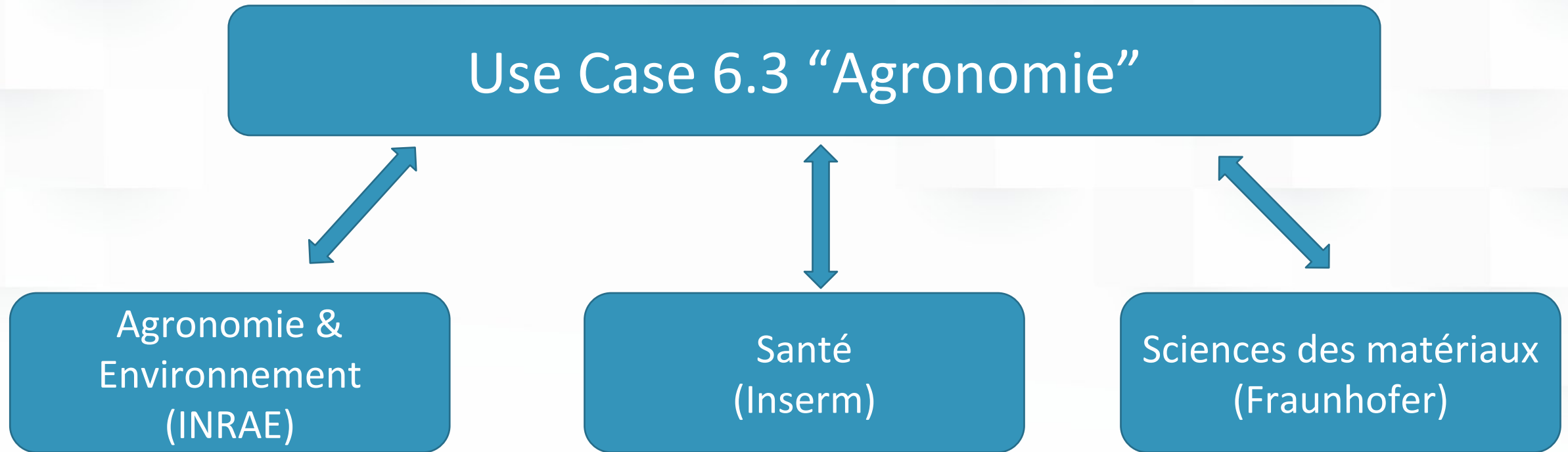
- Lancement : juillet 2019
- En cours :
 - Suites de l'enquête Initiatives nationales
 - Finition de certaines preuves de concept & services
 - Rapports sur l'intégration et l'usage transnational des services
- Fin du projet (avec extension) : décembre 2022

Use Cases

DOMAINE	LEAD	DOMAINE	LEAD
Sciences Humaines et Sociales 		Agronomie 	
Bioinformatique 	 La science pour la santé From science to health	Sismologie 	 Helmholtz Centre POTSDAM
Environnement et Géosciences 		Héritage culturel 	
Software Heritage 		Provenance et services thématiques 	 Consiglio Nazionale delle Ricerche

Le Franc, Yann. "EOSC-Pillar : un projet européen pour soutenir l'intégration des acteurs français dans la mise en place d'EOSC"

Un.e Use Case/Communauté peut en cacher un.e autre...



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Use Case 6.3 “Entrepôts de données”

Catalogue (F2DS)

Archivage

Virtual Research
Environment

Cloud Computing

Use Cases : des productions diverses

1 – Defining Procedures/Services to enforce Data provenance for thematic communities and beyond.

Provenance management is a key component in order to guarantee scientific data discovery, reproducibility and results interpretation. This demonstrator takes into account needs coming from two different communities: (i) material science/nanoscience and (ii) climate science.

2 – Agile FAIR Data for Environment and Earth System Communities.

Facilitating and speeding up the access to the distributed data sources and provide a web-based processing environment for Earth Sciences communities.

3 – Integration of Data repositories into EOSC based on communities' approaches.

Provide technical tools to address preservation, re-usability and reproducibility of data repositories with a focus on Agri-food, material and health sciences domains.

4 – Software Source Code Preservation, Reference and Access.

Provide a solution for the preservation of massive collections of software source code into EOSC.

5 – FAIR Principles in Data Life-cycles for Humanities.

Build a bi-directional relationship between publications and data or datasets deposited in different repositories for Social Sciences and Humanities.

6 – Exploring reference Data through existing computing services for the bioinformatics.

Bridging already available Galaxy computing services and data repositories for bioinformatics communities.

7 – Suitable Data formats for seismological Big Data provisioning via web services.

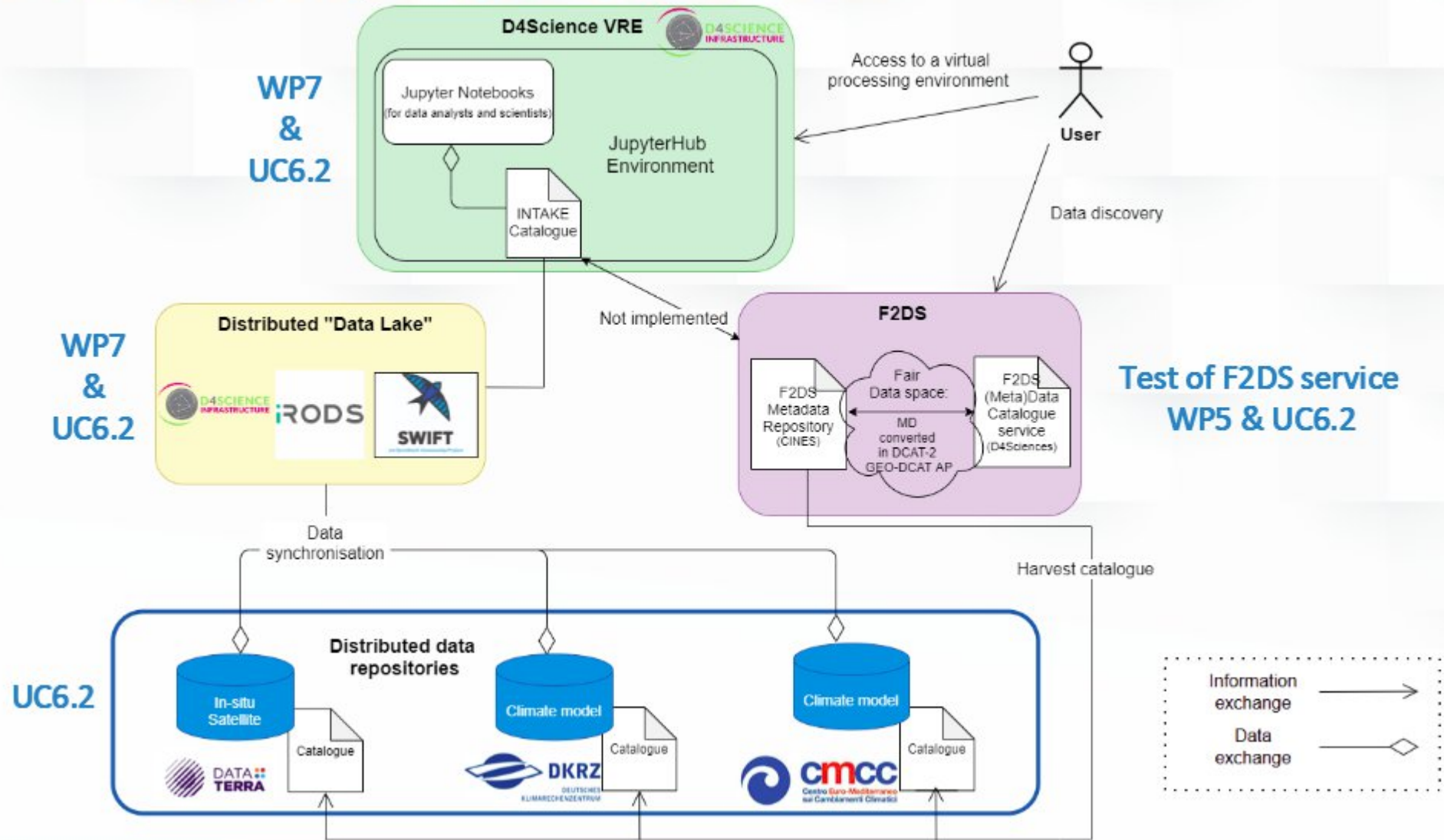
Develop automated tools to standardize datasets for seismological community and new implementation of the standard services capable of working with a large amount of data.

8 – Virtual definition of big Datasets at seismological Data centres according to RDA recommendations.

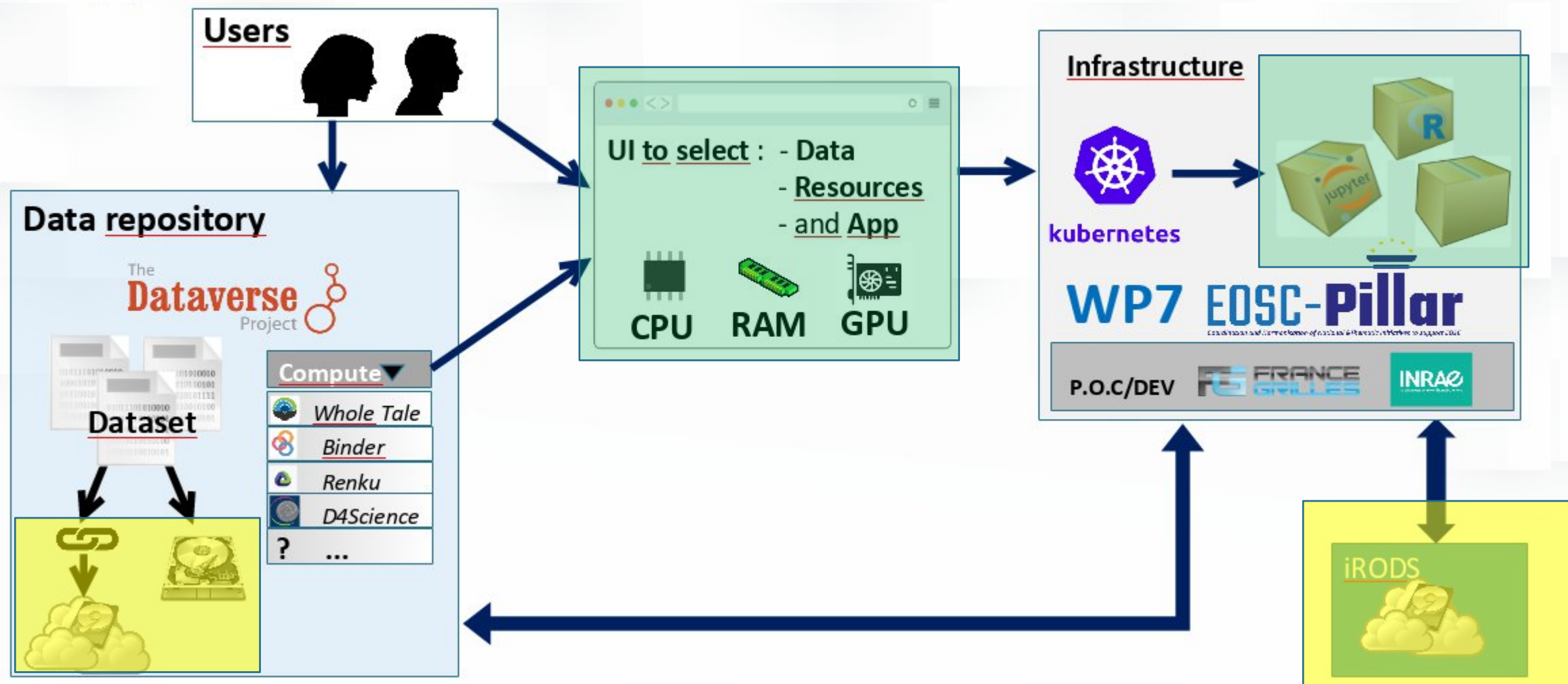
Making the Data Collections System, designed within the activities of RDA, generic enough and ready to be adopted by different communities within EOSC.

9 – Integrating Heterogeneous Data on Cultural Heritage.

Integrating in a cloud environment data resulting from scientific analyses and experiments on cultural heritage artefacts with other documentation



“Use case 6.2 «Agile FAIR Data for Earth Environment and Earth System Communities»”. Présentation lors de la conférence EOSC-Pillar Germany, Allemagne, Février, 2022. Consulté le 02 avril 2022, <https://eoscfrence.sciencesconf.org/342980>



Exemples de besoins de la 6.3

*"I need to integrate innovative services that allow researchers to **analyze data** and **publish** it easily. Our information system must guarantee **long-term storage** of experimental data"*

Engineer, Phenome-Emphasis community



"We want an on-demand infrastructure service that can abstract all the complexity. This would allow us to dedicate ourselves 100% to our research."

Science Team Leader, Montpellier.

"I need an easy access to the data produced on the experimental platforms. I need to correlate various datasets. I need an easy access to publish curated datasets or models."

Research Engineer, Phenome-Emphasis community



Outputs des Use Cases

- Productions
 - Preuves de concept
 - Recettes de déploiement
 - Connecteurs/Interopérabilité
- Services
- Informations
 - Documentation
 - Visibilité et Recommandations de synergies

Sans oublier...

- La couche de données et le Fair Federated Data Space
- Les résultats et conclusions des enquêtes
- Les recommandations sur le cadre légal et le business model

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Thank you!

Get in touch with us!



www.eosc-pillar.eu



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