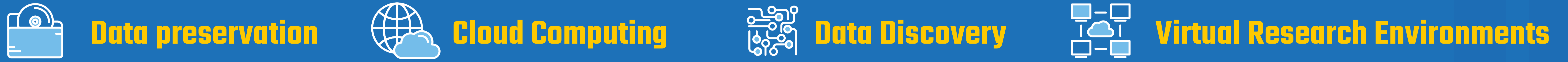




## Introduction

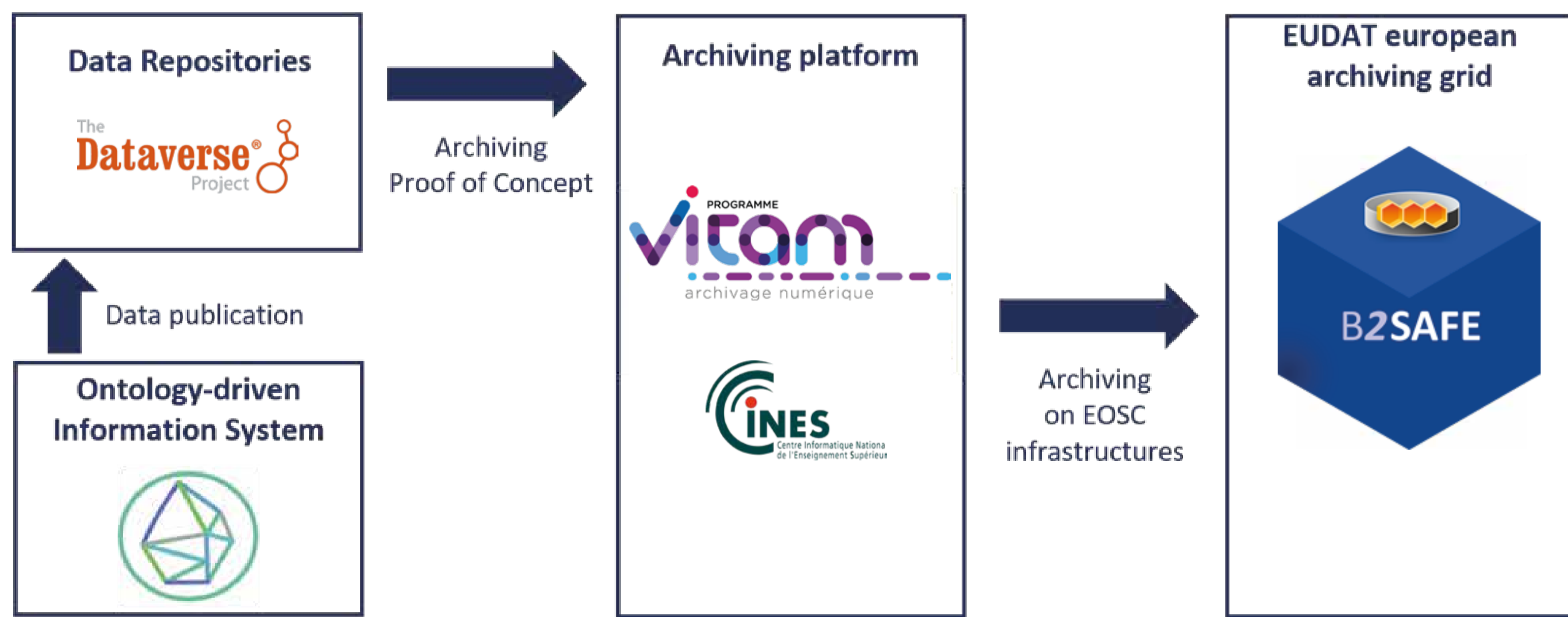
The agriculture, food and environment research community faces many challenges common to other domains: Easily find and publish data, preserve them, and facilitate their treatment and analysis through computing solutions. To address these needs, this use case aims to create a flexible federated research data ecosystem for the agrifood community through four aspects:



## Data Preservation

### Description

Provide long-term archiving of data from Dataverse repositories and phenotyping information system (OpenSilex).



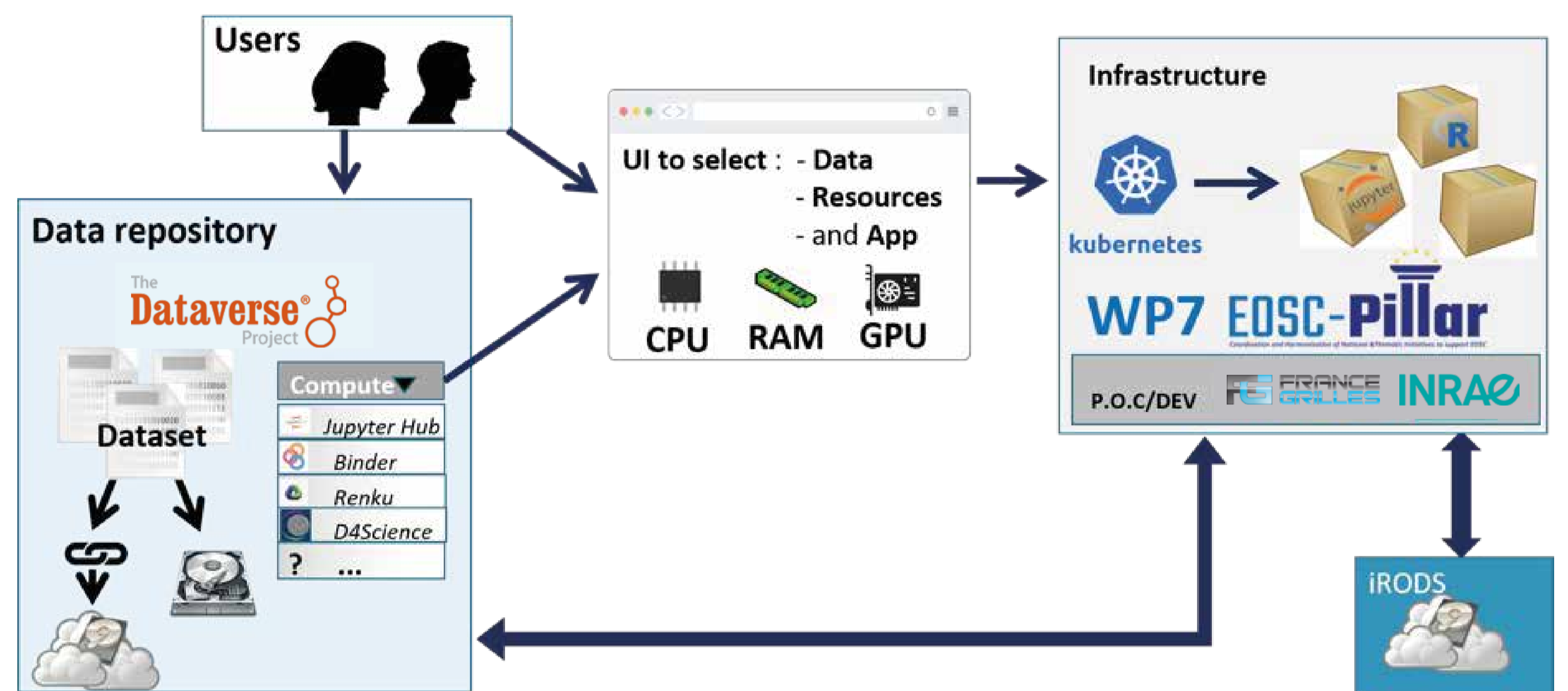
### Results

- ★ Archiving script working on production data
- ★ Dublin Core support for metadata archiving in Vitam
- ★ OpenSilex metadata-level data publication in progress

## Data in the Cloud

### Description

Allow researchers to compute on remote platforms, tailored to their needs and closer to the data to ease the reuse and publication of said data and foster reproducibility.



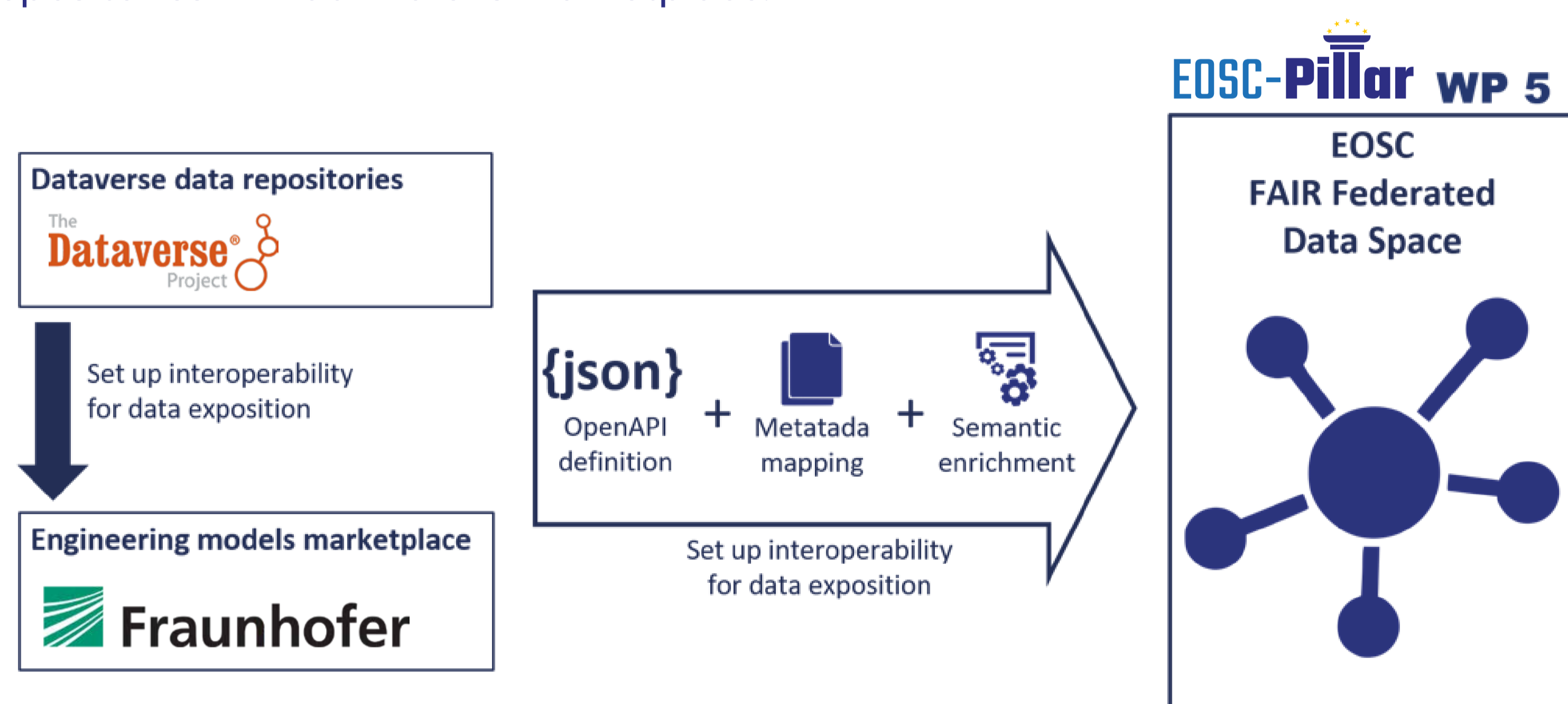
### Results

- ★ Deployment of computing platforms
- ★ Dataverse connector for JupyterHub

## Data Catalog

### Description

In addition to the exposition of the repository data in the FAIR Federated Data Space (F2DS) data catalog with the Work Package 5, enable the use of data from Dataverse repositories in Fraunhofer's marketplace.



### Results

- ★ Dataverse data supported in the F2DS
- ★ Connector between Dataverse and the marketplace

## Virtual Research Environments

### Description

Give the researchers the ability to use the multiple features offered by D4Science to manage their data stored on Dataverse based data repositories.



### Results

- ★ VRE instance and connection to external compute platforms
- ★ Scientists can access F2DS and Dataverse data from VRE

## More details



**EOSC-Pillar Website**  
<https://www.eosc-pillar.eu/use-cases/integration-data-repositories-eosc-based-communities-approaches>



**Use Case Factsheet:**  
<https://doi.org/10.5281/zenodo.6725546>



**Demonstrators' Source code:**  
<https://forgemia.inra.fr/dipso/eosc-pillar>



**Demonstrators' Source code:**  
<https://github.com/materials-marketplace/dataverse-app>

## Conclusion

The Use Case proposed several complementary proofs of concept to address the community needs along the data lifecycle. These could be easily deployed as services for other repository instances, and domains.

## Partners

