



# Impulser la science ouverte au sein du LabEx DRIIHM

Co-design d'une e-infrastructure  
intégrant les principes FAIR

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# Le LabEx DRIIHM

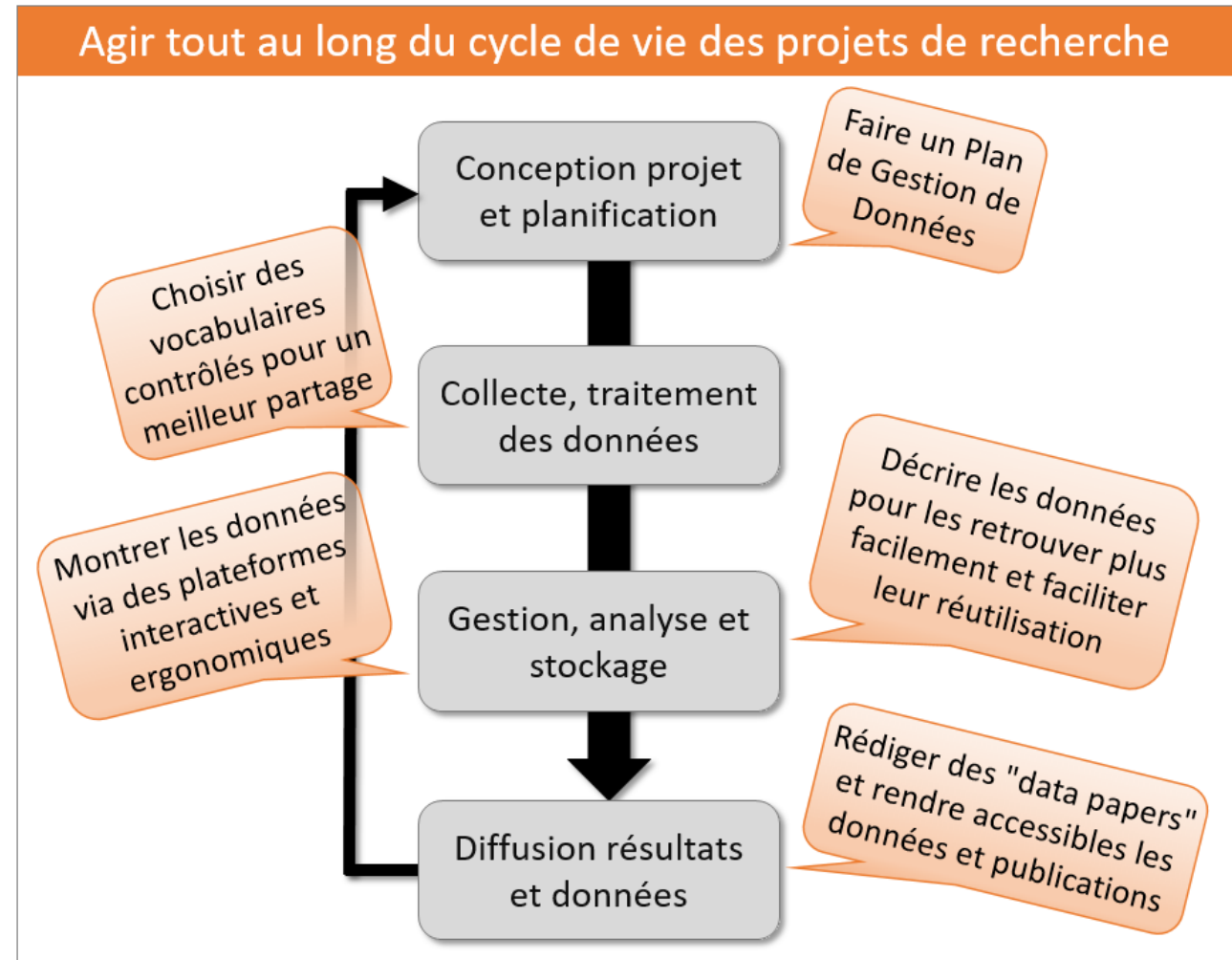
## Dispositif de Recherche Interdisciplinaire sur les Interactions Hommes-Milieus



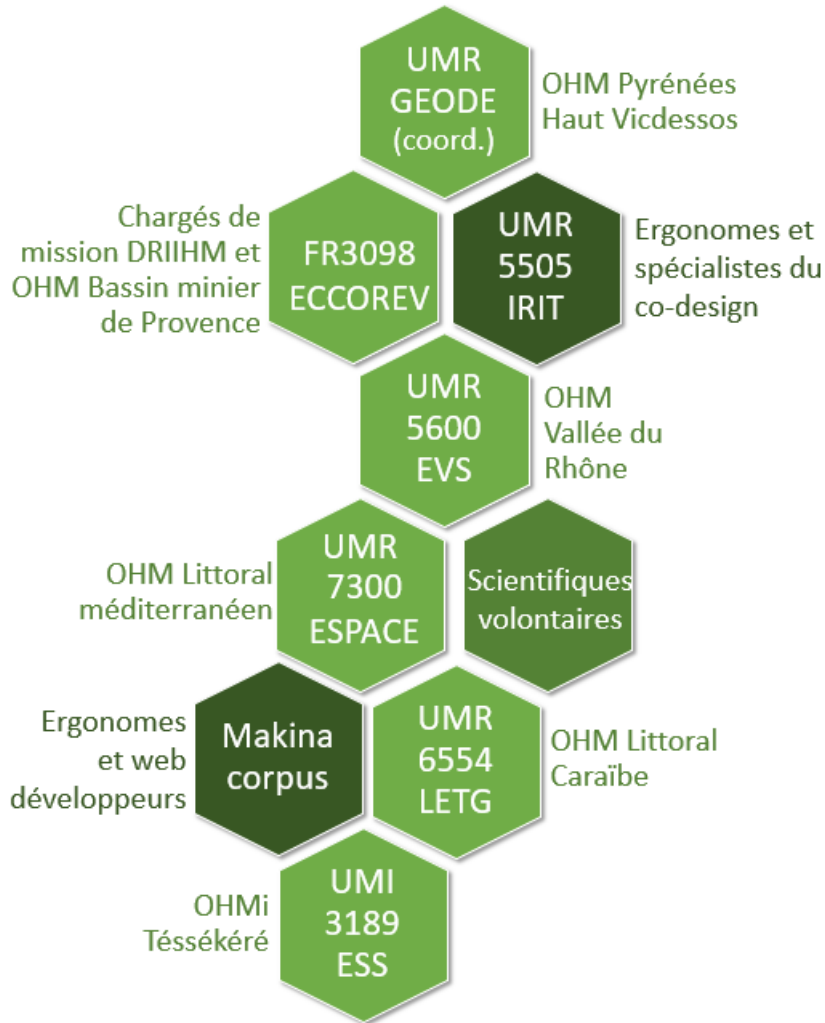
- ✓ Regroupe les **Observatoires Hommes-Milieus (OHM)**, outils créés par le CNRS-INEE en 2007
  - ✓ Chaque OHM s'organise autour d'un **objet focal** qu'un **événement fondateur** est venu bouleverser profondément
  - ✓ Quelques chiffres :
    - 13 OHM**
    - ~ 1000 scientifiques
    - 73 disciplines
    - 552 projets annuels
    - 756 publications (HAL)
- Richesse et hétérogénéité des données

# Les objectifs

1. **Promouvoir la science ouverte** et montrer les bénéfices du partage et de l'ouverture des données
2. **Co-construction d'une e-infrastructure** plus ergonomique et interopérable, intégrant les outils existants et accompagnant les chercheurs dans la "FAIRisation" des données

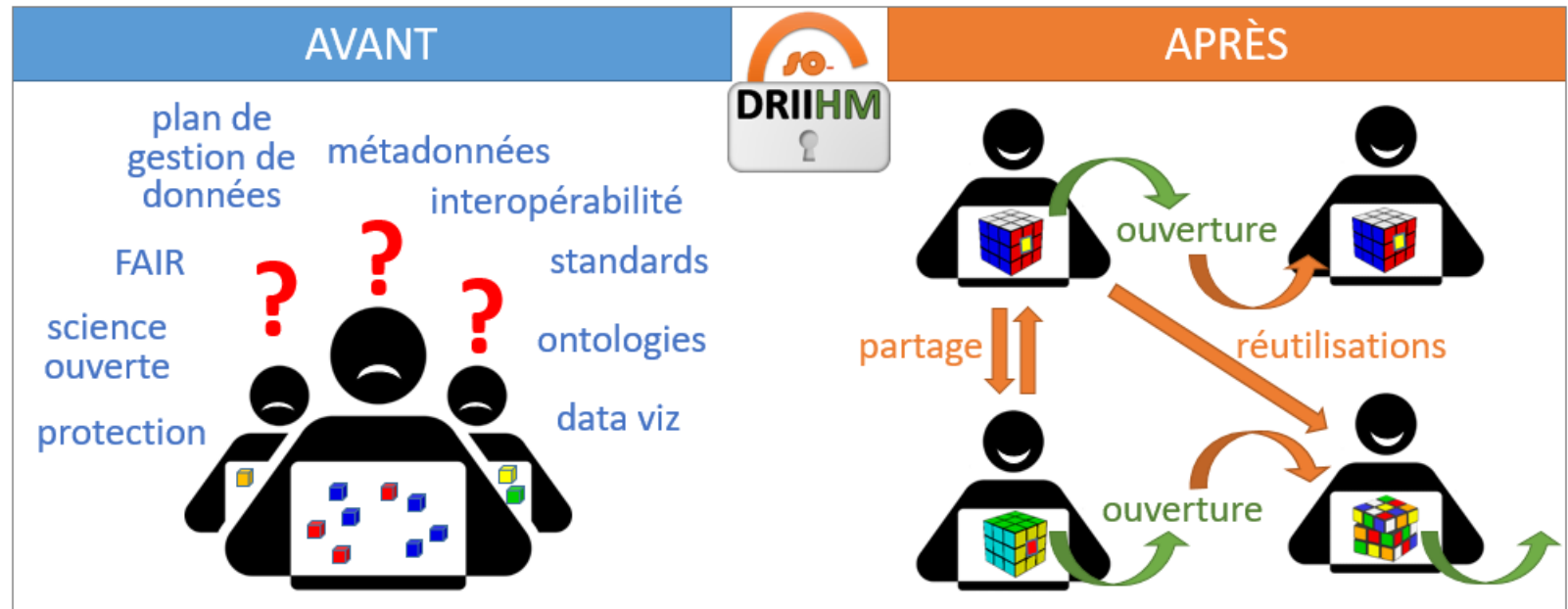


# Le consortium



# Les résultats attendus

"As open as possible, as closed as necessary"  
(H2020 EU Commission)



# Merci pour votre attention En savoir plus...

- Le projet
- Le poster

ANR AAP Flash données ouvertes SO-DRIIHM Edition 2019

Promote Open Science within the DRIIHM Interdisciplinary Research Facility on Human-Environment Interactions: Co-design of an e-infrastructure implementing the FAIR Principles

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Choix d'une des catégories	Outils - méthodes
Coût complet	334,646.85 €
Durée	24 months
Mots clés de la proposition	e-infrastructure; co-design; interdisciplinarity; awareness; FAIR

**DOI 10.5281/zenodo.3503385**

**Open Access**

Table of Contents

- Project summary
- 1. Description of the proposal
- 2. Consortium
- 3. Impact of the proposal
- 4. Result dissemination strategy and proom for sustaining the proposal and/or results
- 5. Self-evaluation process
- 6. Requested budget
- 7. Working plan

**SO-DRIIHM**

**Project summary**

As part of the international Open Science movement, this project deals with the structuration, sharing and opening of research data in the context of a network of thirteen CNRS-INEE observatories (OIHMs): the Interdisciplinary Research Facility on Human-Environment Interactions supported by the ANR (LabEx DRIIHM 2012-2025). This network involves nearly 1000 scientists. Large amounts of heterogeneous data are produced or collected, covering research in Natural and Life Sciences, and Human and Social Sciences. Several initiatives have been carried out within the LabEx DRIIHM to increase visibility and data sharing to connect scientific teams that are not always linked, promote the re-use of data and potentially lead to the emergence of new research topics. A range of tools has been developed over the years: metadata geo-catalogs, web GIS platforms, photo libraries, HAL collections, etc. However, there are significant contrasts in the contribution to these tools and their use between OIHMs, and two surveys conducted in 2017 and 2018 showed that researchers remain poorly informed about Open Science practices. The DRIIHM community is globally motivated by data sharing, but does not know how to proceed and identifies obstacles such as fear of hacking, misuse, security or loss of data ownership.

The objective of this project is to optimize the appropriation of Open Science by the DRIIHM community through: i) the organization of awareness campaigns showing the benefits of data sharing and openness; ii) the co-construction of a more ergonomic and interoperable e-infrastructure, integrating existing tools and accompanying researchers to find, share and (re-)use data through the concrete and gradual implementation of the FAIR principles. This project is part of international initiatives such as the Research Data Alliance and GO FAIR.

**SO-DRIIHM: promoting Open Science within the LabEx DRIIHM and improving its Research Data Infrastructure**

ANR

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**In a nutshell**

- ANR SO-DATA 2019 Flash call / 8 partners
- 6 Human-Environment observatories (OIHMs)
- Keywords: Open Science, e-infrastructure, interdisciplinarity, awareness, FAIR data
- 2 years (May 2020 - April 2022)

The DRIIHM community (1000 researchers from 13 OIHMs) produces amount of geospatial and tabular data, textual resources and iconographies. The complexity of socio-ecosystems is understood through a broad disciplinary spectrum covering the Natural and Life Sciences and the Human and Social Sciences.

**How to better share and reuse these valuable data?**

**SO-DRIIHM main objectives**

1. Promote Open Science and encourage Open Science practices, showing the benefits and challenges of structuring, accessing, sharing and opening data
2. Enhance the DRIIHM existing Research Data Infrastructure (RDI) to a more user-friendly and interoperable e-infrastructure with new functionalities that will be prioritized according to users' expectations

**"as open as possible, as closed as necessary"** (2020 EU Commission)

**1. Awareness campaigns and How-to guides**

What is a Data Management Plan (DMP)?  
How to create a DMP for my DRIIHM project?  
What about protected data in accordance with the EU General Data Protection Regulation?  
What is FAIR and how to ensure that the datasets are compatible with the FAIR data principles?  
How to manage my research datasets using the DRIIHM e-infrastructure?  
How to deposit my dataset in an external data repository (e.g. Pangaea, Zenodo)?  
How to share my datasets? how to open their access?  
How to archive scientific publications in HAL open archive?

**2. New intended functionalities of the DRIIHM e-infrastructure\*** (\*depending on researchers' expectations)

- Use a DMP model using the DMP OPIDoR tool developed by CNRS-INGT
- Make my datasets as FAIR as possible
- Manage my datasets using a dashboard
- Use a powerful search engine
- Use dataviz web interfaces
- Download easily datasets
- Generate a data paper draft

**FAIR tool**

- ✓ Create metadata
- ✓ Add license for access and re-use
- ✓ Add DOI

**+ Data dashboard**

- ✓ Change metadata
- ✓ Change license ...

**What does "as FAIR as possible" mean?**

Re-usable data: Metadata A, Data A, Metadata B, Data B, Metadata C, Data C, Metadata D, Data D, Metadata E, Data E, Metadata F, Data F

Indicators will be used to assess the level of FAIRness of the data

**→ Co-design of an e-infrastructure implementing the FAIR Principles**

**→ A close collaboration between members of the DRIIHM RDI group, ergonomists, web developers and researchers of the community**

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