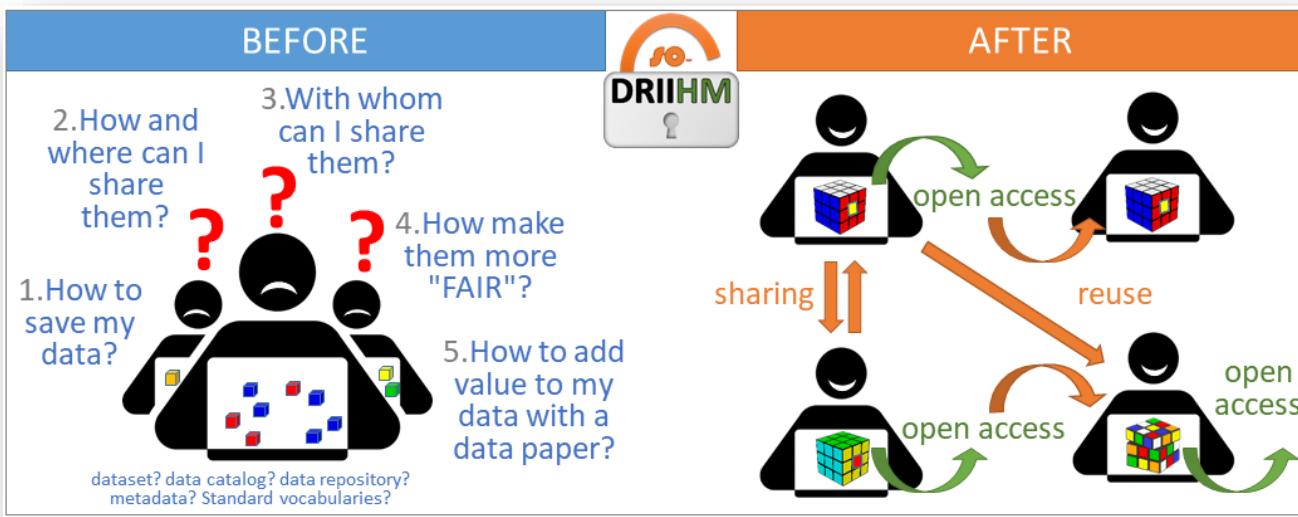


# Main results of the ANR SO-DRIIHM open science project

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

E. Lerigoleur<sup>1\*</sup>, F. Arnaud<sup>2</sup>, B. Cissé<sup>3</sup>, P. Dayre<sup>4</sup>, P. Duboz<sup>5</sup>, C. Jabéa<sup>1</sup>, M. Laffond<sup>6</sup>  
I. Le Berre<sup>7</sup>, M. Massaviol<sup>8</sup>, L. Mendy<sup>6</sup>, B. Morandi<sup>9</sup>, C. Pardo<sup>8</sup>,  
J-C. Raynal<sup>8</sup>, G. Skupinski<sup>10</sup>, M-L. Trémélo<sup>11</sup>



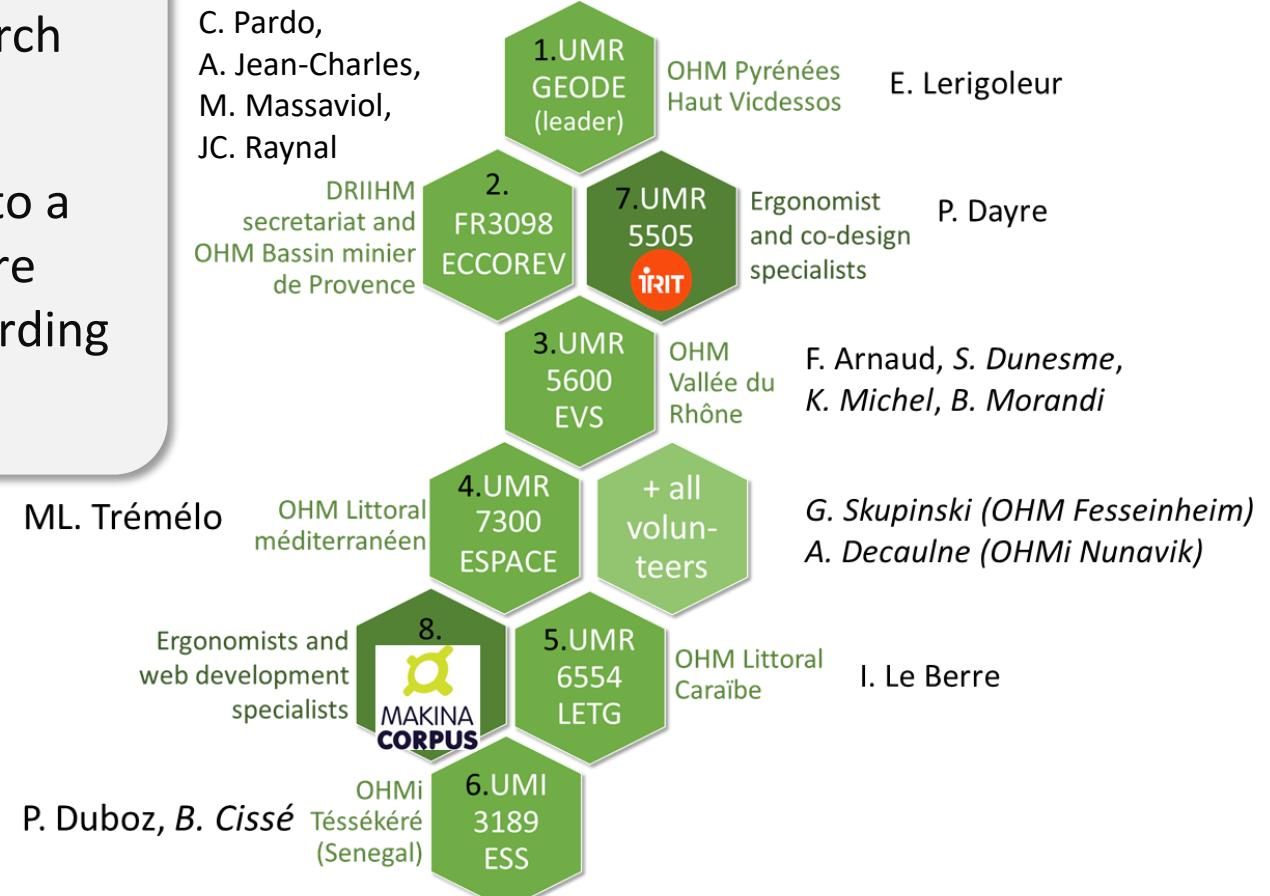
## **News from OHM and DRIIHM**

# 1. The ANR SO-DRIIHM project encourages the sharing and opening of data within the OHMs, between them and beyond

**WP 1.** Promote Open Science and encourage Open Science practices, showing the challenges and benefits of structuring, accessing, sharing and opening research data

**WP 2.** Enhance the DRIIHM existing infrastructure to a more user-friendly and interoperable e-infrastructure with new functionalities that will be prioritized according to users' expectations and motivations

- ✓ ANR Open science Flash 2019
- ✓ 8 partners
- ✓ 6 OHM + 1 OHMi
- ✓ 98 k€
- ✓ Oct. 2020 - **March 2024 (+1 year)**



## 2. The challenges of data sharing in the context of open science for DRIIHM

Acculturate DRIIHM scientists to data sharing practices in addition to open access publications

- Increase knowledge of the open science ecosystem and its vocabulary

Help OHM(i) project coordinators draw up a Data Management Plan (DMP)

- Find out about DMP models
- Learn how to use the [DMP OPIDoR](#) collaborative editing tool

Help producers of OHM(i) research data to better describe and display their data in dedicated catalogues

- Learn how to create **FAIR metadata**
- Understand the benefits of exposing data in one or more **metadata catalogues**

Help producers of OHM(i) research data to make their data as FAIR as possible and publish them

- Learn how to create **FAIR data**
- Know the recommended **data repositories**
- Know about licences for accessing and using data

### 3. Definition of FAIR Data...

#### Findable

Metadata and data should be findable for both humans and computers

#### Interoperable

Data needs to work with applications or workflows for analysis, storage and processing

F A I R

#### Accessible

Once found, users need to know how the data can be accessed

#### Reusable

The goal of **FAIR** is to optimise data reuse via comprehensive well-described metadata

<https://scibite.com/solutions/enterprise-fair-data-mdm/>

### 3. Definition of FAIR Data... and clarifications to remove ambiguities !

#### Findable

Metadata and data should be findable for both humans and computers

F A

#### Accessible

Once found, users need to know how the data can be accessed

#### Interoperable

Data needs to work with applications or workflows for analysis, storage and processing

I R

#### Reusable

The goal of FAIR is to optimise data reuse via comprehensive well-described metadata

F A I R   
findable Accessible Interoperable Reusable

Open

- **FAIR data does not mean open**
  - Data can be FAIR with access restrictions clearly stated
- **Open data is not necessarily 100% FAIR**
- **FAIR is not a binary process → gradient in FAIRness**
- **Using a data repository does not induce 100% FAIRness**
  - This depends, for example, on whether the data repository imposes a data standard (e.g. GBIF yes, ZENODO no), and/or on the completeness and accuracy of the metadata
  - **F & A are the most easily achievable principles**
  - **I is the most difficult to implement**
  - **R is under progress in environmental / Humanities & Social Sciences** : reproducible research, use of controlled vocabularies and input templates, ...

<https://scibite.com/solutions/enterprise-fair-data-mdm/>

## 4. Data governance and data policies for OHM & OHMi

Statement in 2020

The LabEx had some data policy elements at its disposal (charter)



Challenges

Building a CNRS-Ecologie&Environnement-wide data policy



Actions

Initiative and co-construction of this data policy (coord. D. Joly DAS CNRS-INEE)



Results

**Politique des données des dispositifs et infrastructures de l'INEE**

[https://hal.science/  
hal-04000652](https://hal.science/hal-04000652)



## 4. Data governance and data policies for OHM & OHMi

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Results



**Politique des données des dispositifs et infrastructures de l'INEE**

[https://hal.science/  
hal-04000652](https://hal.science/hal-04000652)

The LabEx DRIIHM did not have the capacity to manage its own data repository

Find reliable, long-term partners

Partnership built with BBEES (data.InDoRES), HumaNum (Nakala), PNDB and GBIF + planned with Data Terra (EaSy Data)

- ✓ Partnership built
- ✓ Experimentation with data deposit in the respective data repositories, with testing and feedback
- ✓ Operational technical interoperability with Nakala, planned with others

# Our partner data repositories

- For ecology and environmental data
  - Data.InDoRES is our DRIIHM default data repository:  
<https://data.indores.fr/dataverse/driihm>
  - For biodiversity data:
    - PNDB (French platform) for FAIR metadata
    - GBIF (International platform) for FAIR metadata + data
  - For multi-source observation data, you can use the Data Terra infrastructure, particularly the [EaSy Data](#) platform for long tail data



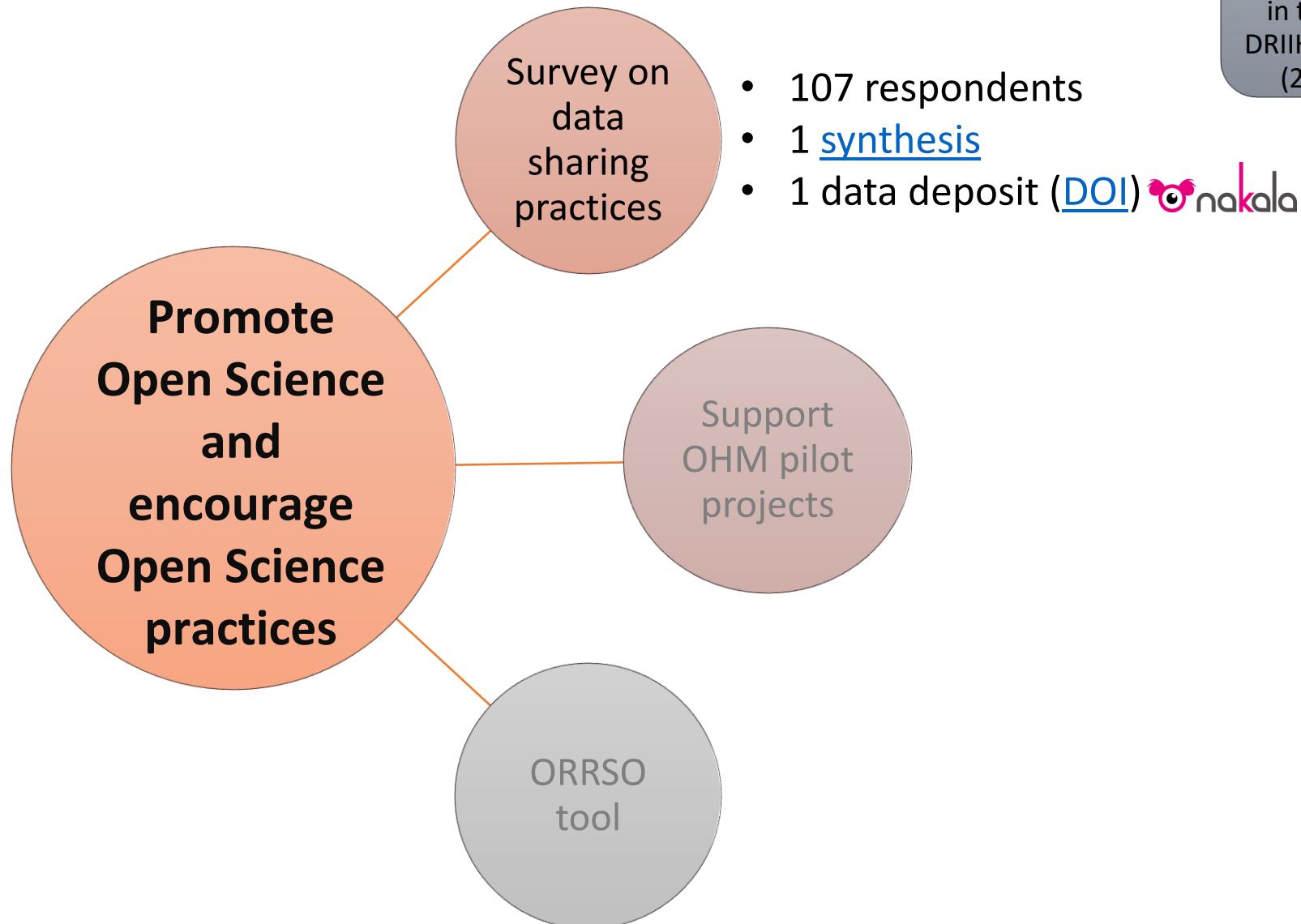
- For data in the Humanities and Social Sciences
  - Nakala (Huma-Num tool) is our DRIIHM default data repository:  
<https://nakala.fr/collection/10.34847/nkl.addd0599>



NB: [recherche.data.gouv](https://recherche.data.gouv) also offers a data repository

You can also use **trusted thematic data repositories**, depending on your scientific domain (eg. GenBank)  
→ Consult the [list of 49 thematic data repositories](#) recommended by the Comité pour la science ouverte (CoSO)

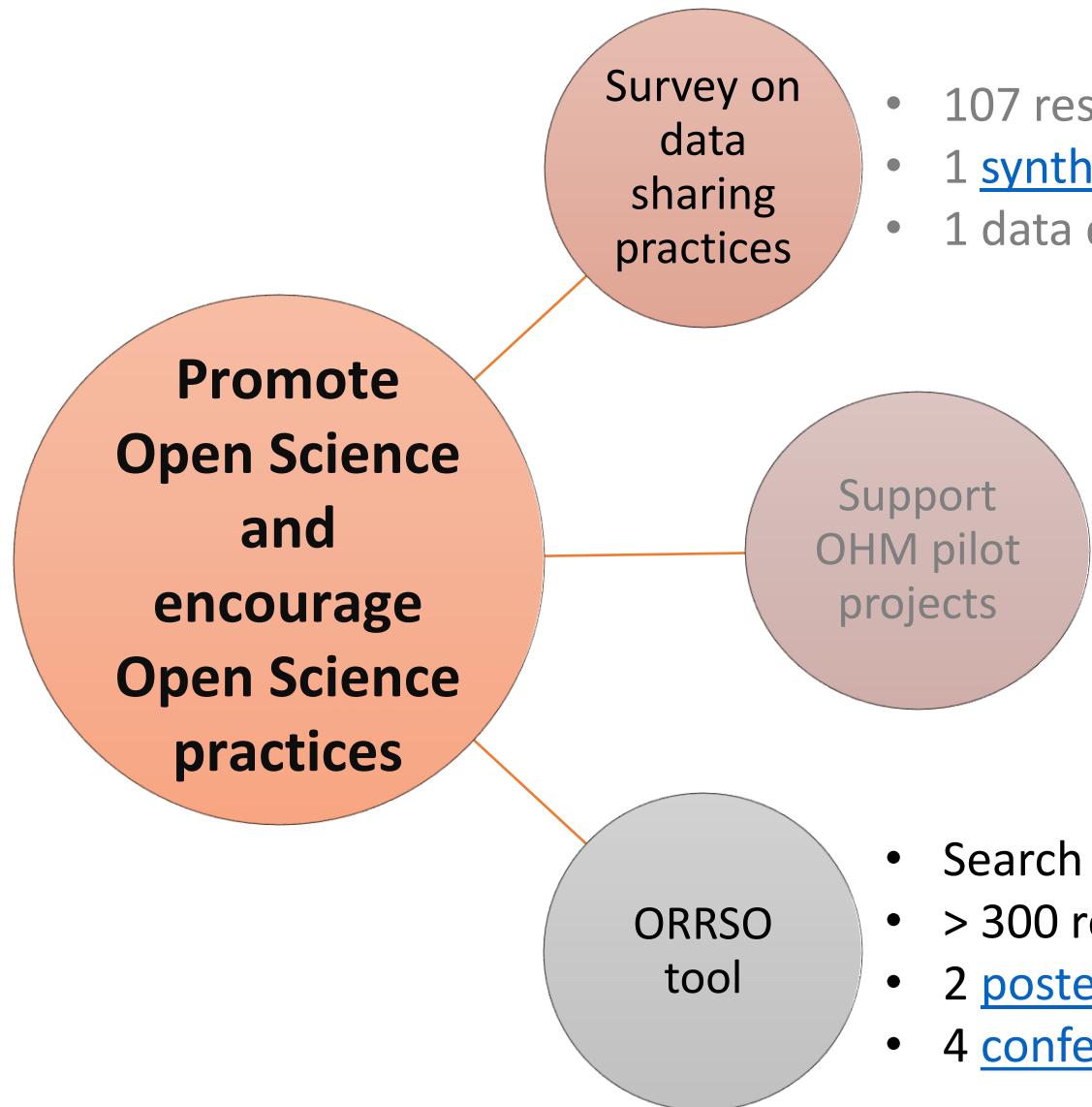
## 5. WP1 main actions & results



**38**  
productions  
in the HAL SO-DRIIHM collection  
(2019-2024)

- 1 data paper
- 26 conference papers
- 5 posters
- 6 other productions

## 5. WP1 main actions & results

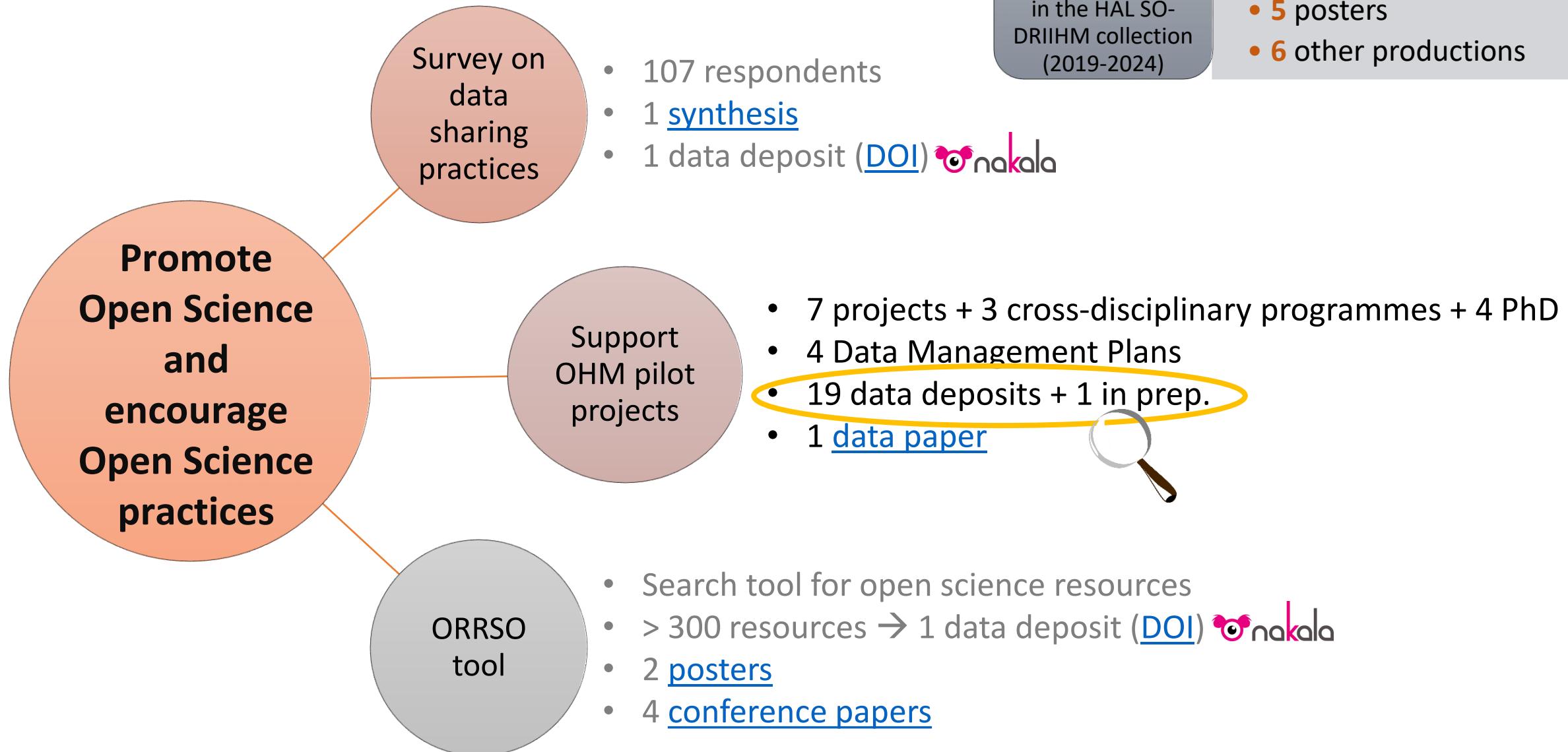


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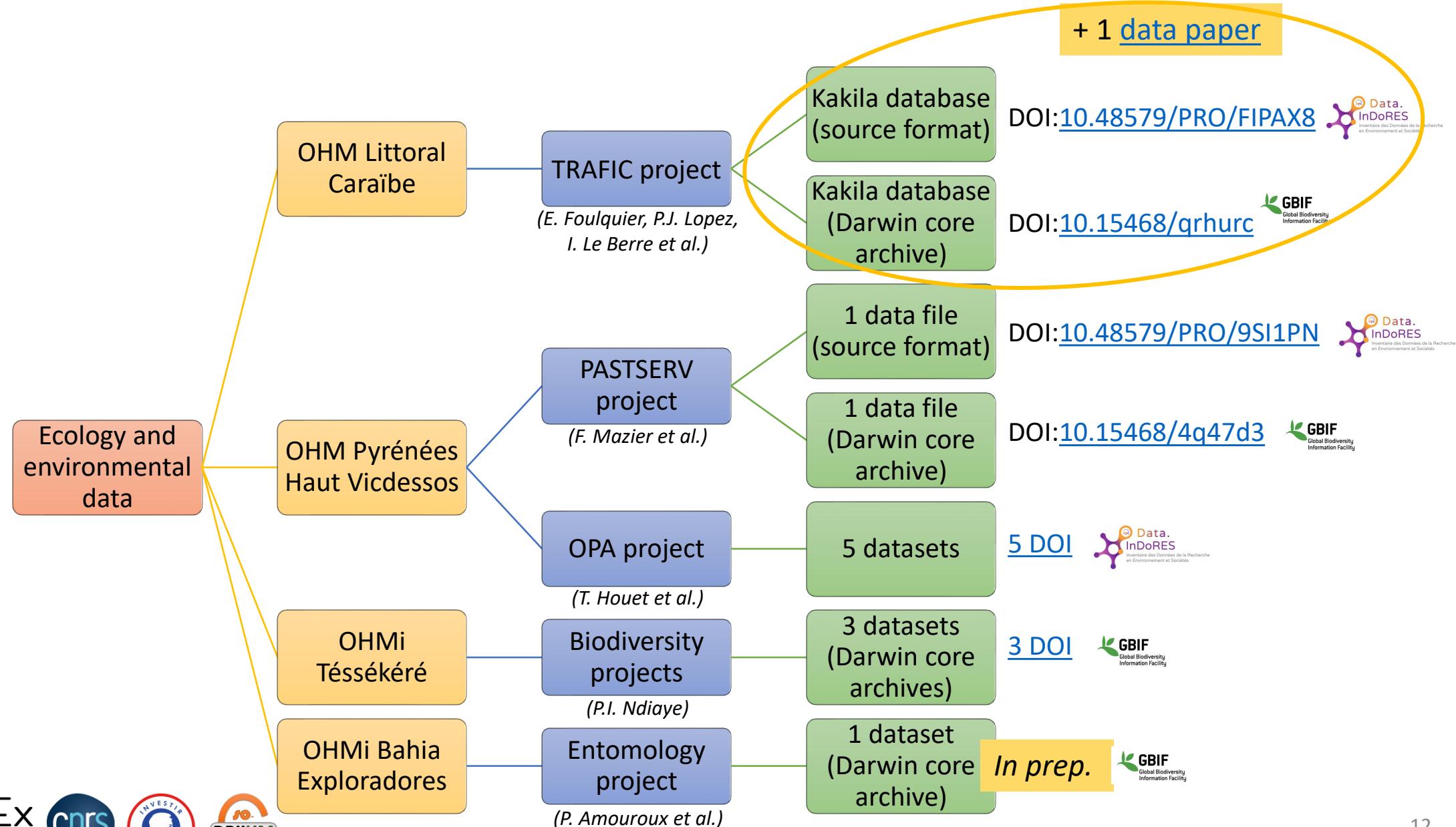
- 1 data paper
- 26 conference papers
- 5 posters
- 6 other productions



## 5. WP1 main actions & results



## 5. WP1 main actions & results → 12 data deposits for ecology and environmental data



# 5. WP1 main actions & results → 7 data deposits in Data.InDoRES



Kakila database of marine mammal observation data around the French archipelago of Guadeloupe in the French Antilles

8 avr. 2024 - OHM Littoral Caraïbe



Coché, Lorraine; Arnaud, Elie; Bouveret, Laurent; David, Romain; Foulquier, Eric; Gandillon, Nadège; Jeannesson, Etienne; Le Bras, Yvan; Lerigoleur, Emilie; Lopez Pascal-Jean; Madon, Bénédicte; Sananikone, Julien; Sèbe, Maxime; Le Berre, Iwan; Jung, Jean-Luc, 2024, "Kakila database of marine mammal observation data around the French archipelago of Guadeloupe in the AGOA sanctuary - French Antilles", <https://doi.org/10.48579/PRO/FIPAX8>, data.InDoRES, V2, UNF:6:EQCWjtWRyPMKn42mMhWtQ== [fileUNF]

Database collected as part of the Lorraine Coché master's 2 internship "Inventory and structuring of marine mammal observation data around Guadeloupe" in 2020 (Master Tropical marine ecosystems at the University of the Antilles). This database centralizes and harmonizes the data...



Vegetation surveys in mountainous area (Pyrenees, France)

14 sept. 2022 - OHM Pyrénées Haut Vicdessos

Mazier, Florence; Plancher, Clara; Haunold, Sébastien; Bonnet, Colline; Belly, Hugo; Houet, Thomas, 2022, "Vegetation surveys in mountainous area (Pyrenees, France)", <https://doi.org/10.48579/PRO/9SI1PN>, data.InDoRES, V1

The data file contains absolute cover percentage of plant species from vegetation survey in the Vicdessos mountainous area (Pyrenees, France). The data have been collected in 2015 and 2020 within the framework of two projects: ANR-10-JCJC-1804 MODE-RESPYR (Modeling Past and futur...



Land cover maps of the Haut Vicdessos valley (Pyrenees, France) from 1942 until 2008

25 juil. 2023 - OHM Pyrénées Haut Vicdessos

Houet, Thomas, 2023, "Land cover maps of the Haut Vicdessos valley (Pyrenees, France) from 1942 until 2008", <https://doi.org/10.48579/PRO/BBXGHL>, data.InDoRES, V3

Land cover maps made using visual interpretation from panchromatic aerial photographs segmented and classified using e-cognition. The geometric quality of the map is identical to that of the orthophotoplan of the corresponding year. Raster data have also been converted to vector d...

Simulated land cover maps for 2080 on the Haut Vicdessos (Pyrenees, France) considering two pastoral land use change scenarios and model parameterization

25 juil. 2023 - OHM Pyrénées Haut Vicdessos

Houet, Thomas, 2023, "Simulated land cover maps for 2080 on the Haut Vicdessos (Pyrenees, France) considering two pastoral land use change scenarios and model parameterization", <https://doi.org/10.48579/PRO/BWJSR9>, data.InDoRES, V2

2 scenarios (MBAU, PHVU) and 4 different model parameterizations for each of them with detailed land cover for 1983 and 2008 distinguishing deciduous and coniferous. The 4 model parameterizations result from the following combination: the driving factors (slopes, orientations, di...

Wetlands map of the Bassies valley (Haut Vicdessos, Pyrenees, France)

25 juil. 2023 - OHM Pyrénées Haut Vicdessos

Houet, Thomas, 2023, "Wetlands map of the Bassies valley (Haut Vicdessos, Pyrenees, France)", <https://doi.org/10.48579/PRO/PL4RZQ>, data.InDoRES, V2

Wetland mapping from in situ surveys made in 2010 and used as validation data for wetland classification using remotely sensed data.

Simulated land cover maps for 2080, 2100 and 2120 on the Haut Vicdessos (Pyrenees, France) considering pastoral land use changes scenarios

25 juil. 2023 - OHM Pyrénées Haut Vicdessos

Houet, Thomas, 2023, "Simulated land cover maps for 2080, 2100 and 2120 on the Haut Vicdessos (Pyrenees, France) considering pastoral land use changes scenarios", <https://doi.org/10.48579/PRO/EJZQSA>, data.InDoRES, V2

Scenarios based on 3 land use assumptions: A) Without pastoral management constraints: land cover changes between 2008 and 2080 (or 2100 or 2120) occur at the same rate as those observed between 1983 and 2008. B) Taking into account the agro-pastoral pressure defined by the agro-...

Spectral signatures on the Bassies valley (Haut Vicdessos, Pyrenees, France) - 2010 campaign

28 avr. 2023 - OHM Pyrénées Haut Vicdessos

Houet, Thomas, 2023, "Spectral signatures on the Bassies valley (Haut Vicdessos, Pyrenees, France) - 2010 campaign", <https://doi.org/10.48579/PRO/PUQ99V>, data.InDoRES, V2

Data set (summary sheets) and location map of spectro-radiometric surveys of 19 representative microplots, used as training samples for remote sensing land cover classifications.

# 5. WP1 main actions & results → 5 data deposits in GBIF



## Bird biodiversity in Ferlo (North of Senegal)

Occurrence dataset

These data concern the avian biodiversity of the Koyli Alpha area located in the Ferlo (northern Senegal), on the route of the pan-African reforestation project of the Great Green Wall. This work was ...

Published by Observatoire Hommes-Milieux international Téssékéré

... by the LabEx DRIIHM, French programme ...

3 674 occurrences | 14 citations

## Large wild mammals in Ferlo (North of Senegal)

Occurrence dataset

These data are collected in the extension area of the Great Green Wall in Ferlo (North, Senegal) between 2016 and 2021. They concern the biodiversity of large wild mammals present in Koyli Alpha. This...

Published by Observatoire Hommes-Milieux international Téssékéré

... by the LabEx DRIIHM, French programme ...

420 occurrences | 27 citations

## Large wild mammals in Ferlo (North of Senegal)\_Trapping data

Sampling event

These data are collected using camera trapping in the extension area of the Great Green Wall in Ferlo (North, Senegal), particularly in Koyli Alpha between 2017 and 2020. They concern the biodiversity...



Published by Observatoire Hommes-Milieux international Téssékéré

... by the LabEx DRIIHM, French programme ...

439 occurrences | 13 citations



## Vegetation surveys in mountainous area (Pyrenees, France)

Sampling event

The data file contains absolute cover percentage of plant species from vegetation survey in the Vicdessos mountainous area (Pyrenees, France). The data have been collected in 2015 and 2020 within the ...

Published by UMR 5602 GEODE Géographie de l'environnement (CNRS/Université Toulouse 2)

... Haut Vicdessos (Labex DRIIHM ANR-11-LABX0010) ...



1 757 occurrences | 40 citations



## Kakila database of marine mammal observation data around the French archipelago of Guadeloupe in the AGOA sanctuary - French Antilles

Sampling event

Database collected as part of the Lorraine Coché master's 2 internship "Inventory and structuring of marine mammal observation data around Guadeloupe" in 2020 (Master Tropical marine ecosyst...

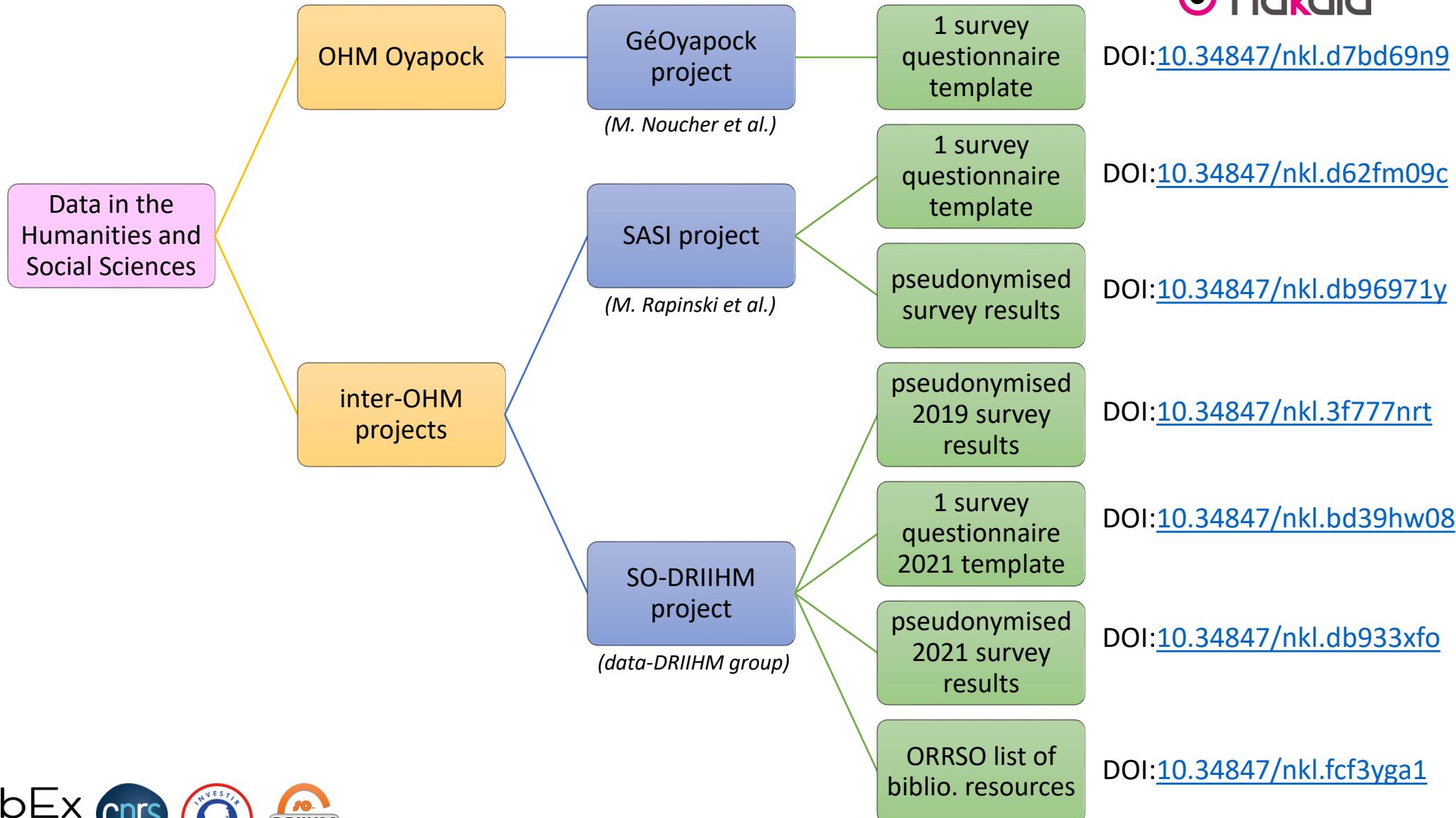
Published by Observatoire Hommes-Milieux Littoral Caraïbe

... by the LabEx DRIIHM, French programme ...

4 703 occurrences | 13 citations



## 5. WP1 main actions & results → 7 data deposits for data in Humanities and Social Sciences



## 5. WP1 main actions & results → 7 data deposits for data in Humanities and Social Sciences

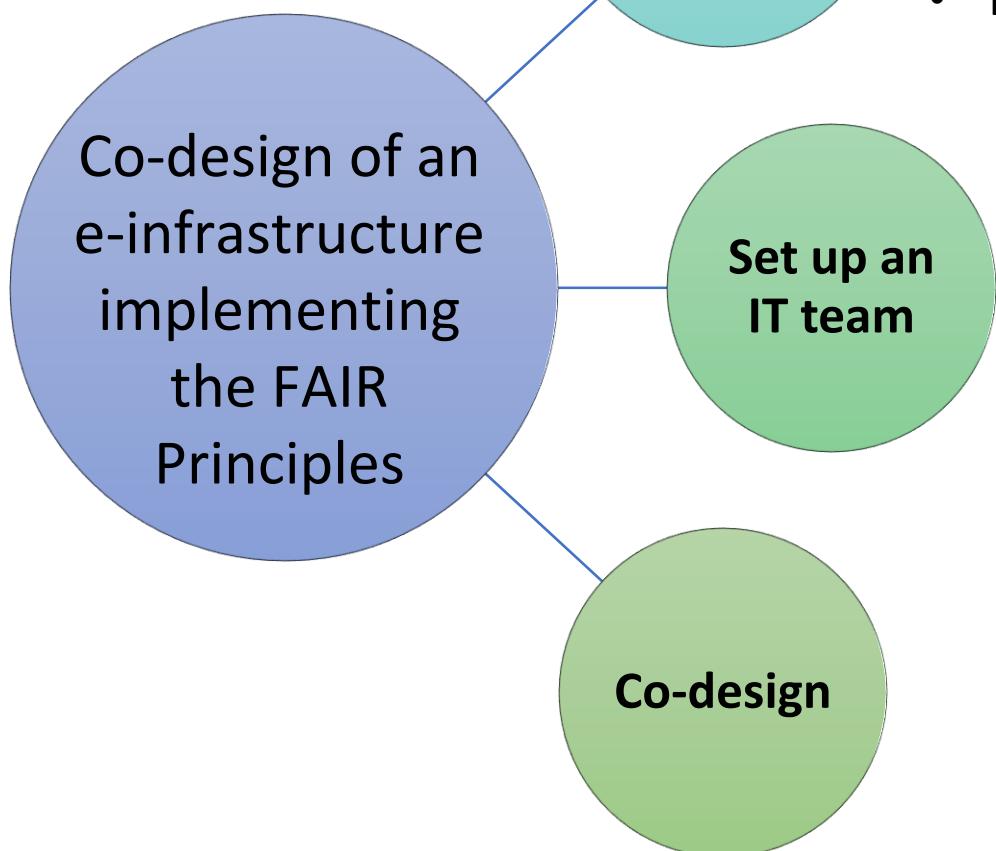
The screenshot shows the NAKALA platform interface. At the top, there is a search bar with the placeholder "Rechercher dans NAKALA..." and a magnifying glass icon. To the right of the search bar are language selection ("Fr") and user authentication ("Se connecter") buttons. Below the header, there is a filter bar with dropdown menus for "Filtrer par : Type de dépôt", "Licence", "Année de création", and "Trier par : Date de dépôt (décroissante)". The main content area displays a table of data deposits, each with a small icon, a title, authors, date, and status. The columns are labeled "Auteurs", "Date de dépôt", and "Statut". Each row has a three-dot menu icon on the right.

	Auteurs	Date de dépôt	Statut
☰ Jeu de données sur les aliments consommés en Guadeloupe déclarés lors des enquêtes de Rappel 24h menées par l'OHM-Littoral Caraïbe (projet "Systèmes Alimentaires Sous Influence" SASI)	Marie Belin et al.	24/04/2024	⋮
☰ ORRSO Outil de recherche de ressources en science ouverte	Mathieu Massaviol et al.	08/04/2024	⋮
* Questionnaire projet GéOyapock	Matthieu Noucher	02/11/2023	⋮
☑ Données de l'enquête "Partagez votre expérience de partage de données !" (juin 2021) - projet ANR SO-DRIIHM	Pascal Dayre et al.	04/07/2023	⋮
☑ Questionnaire de l'enquête "Partagez votre expérience de partage de données !" (juin 2021) - projet ANR SO-DRIIHM	Pascal Dayre et al.	04/07/2023	⋮
* Questionnaire sur les systèmes alimentaires en deux volets : étique et éthique (projet "Systèmes Alimentaires Sous Influence" SASI)	Jean-Philippe Bedell et al.	17/05/2023	⋮
☑ Analyse du degré d'acceptabilité de la création d'une plateforme de dépôt et de partage des jeux de données des OHM (Observatoires Hommes-Milieux)	Aurore Defays et al.	13/04/2021	⋮

<https://www.nakala.fr/collection/10.34847/nkl.add0599>

## 6. WP2 main actions & results

In SO-DRIIHM we imagine the future platform as an open science gateway

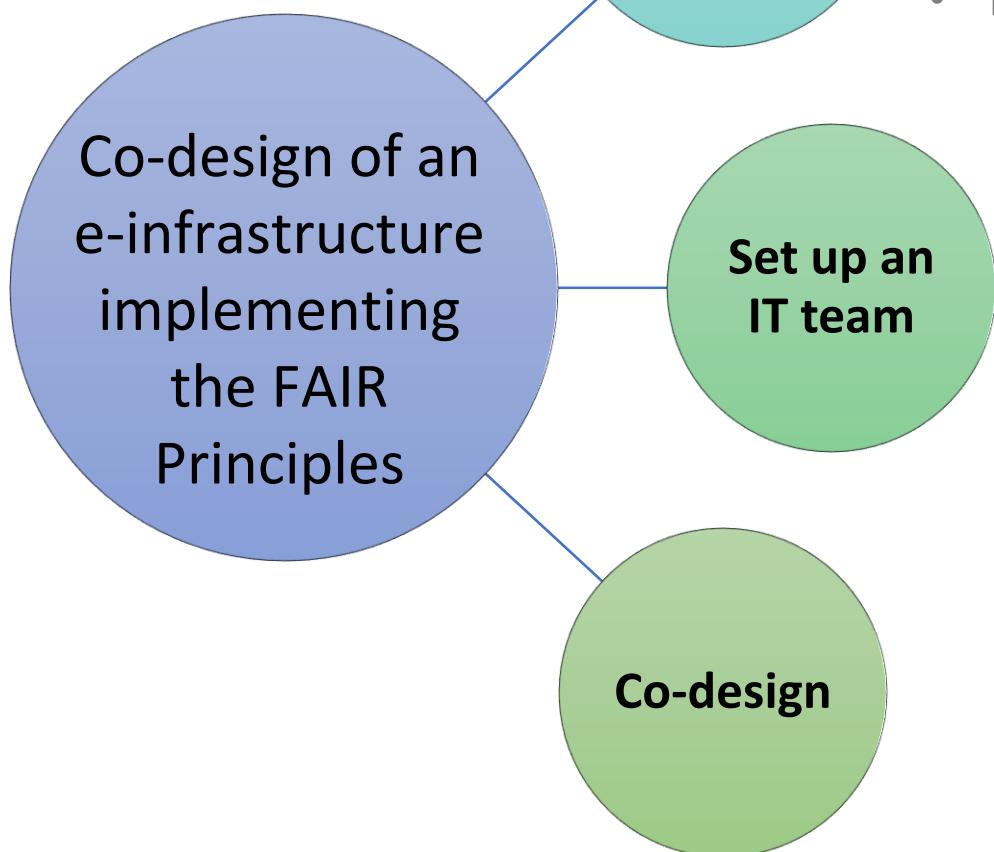


- **Search for OHM data and other linked resources**  
(land use, meteorological data, demographic data...)
- **Deposit data in a recommended data repository**
- Search for (OHM) publications
- How to make your data as FAIR as possible
- How to draft a data paper, ...

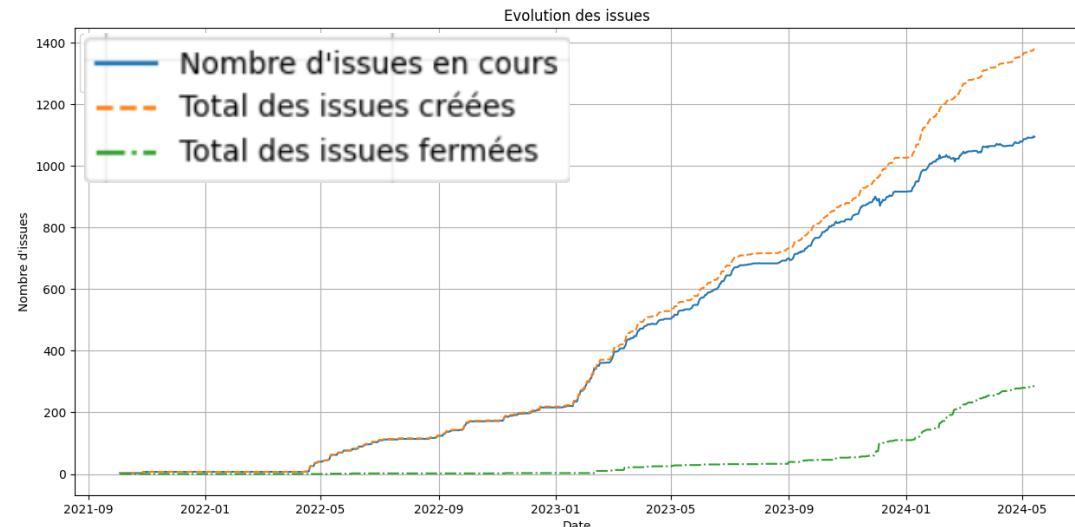


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In SO-DRIIHM we imagine the future platform as an open science gateway

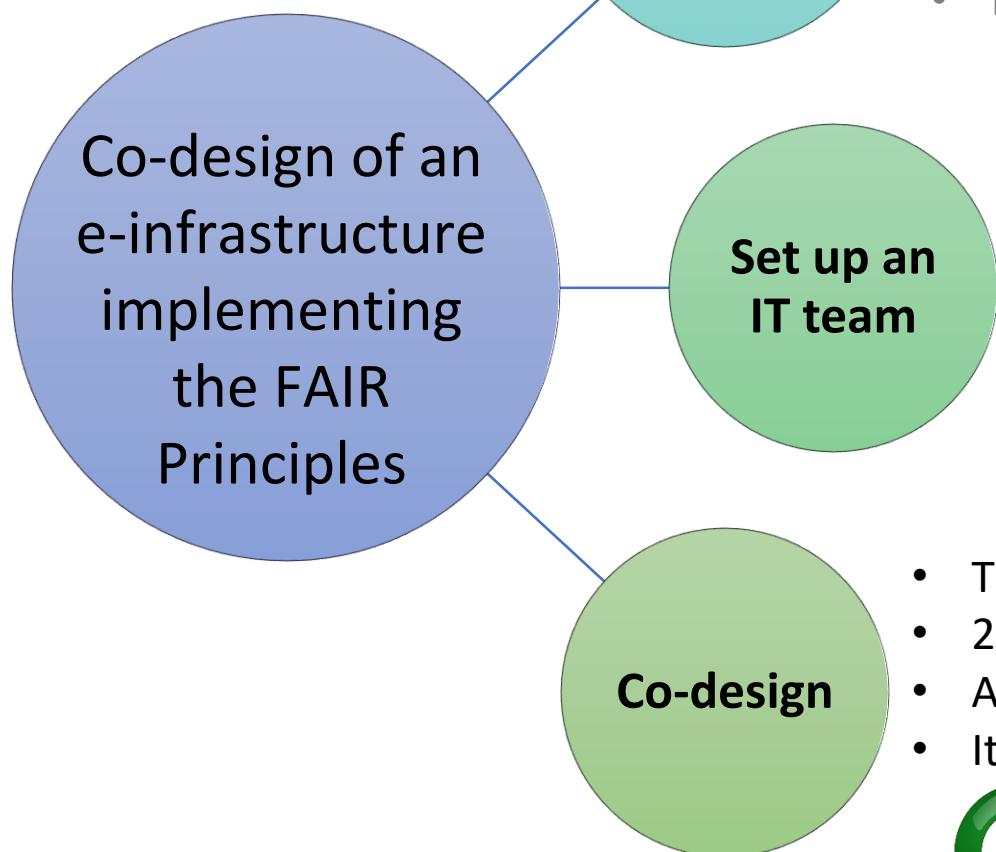


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  - Deposit data in a recommended data repository
  - Search for (OHM) publications
  - How to make your data as FAIR as possible
  - How to draft a data paper, ...
- 
- Managing the IT project on Gitlab
  - Find additional funding: Plan France Relance IRIT/Autonomens = 2 IT (0.8 ETP) x 2 years + operating costs
  - Recruit IT staff: Chloé Jabea (2023-06 → 2024-03)
  - Gradual involvement of the private partner Makina corpus
  - Carry out IT developments (>1100 Gitlab issues, >1300 commits!)



## 6. WP2 main actions & results

In SO-DRIIHM we imagine the future platform as an open science gateway



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  - Gradual involvement of the private partner Makina corpus
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- 
- The Data-DRIIHM group is involved in co-design
  - 27 “RDV SO-DRIIHM” meetings (every ~ 3 weeks)
  - A workshop in January 2024 with 6 volunteer scientists for beta-tests
  - Iterative development cycle and co-design → work in progress...



Work on interface mock-ups & co-design other exchanges

IT development of the prototype

Tests and deployment of a new version of the prototype

# Prototype overview

## - home page

- ✓ A generic platform to bring together several spaces for each scientific community
- ✓ Prototype and Gitlab environment hosted at IRIT



Institut de Recherche  
en Informatique de Toulouse  
CNRS - INP - UT3 - UT1 - UT2J

There are  
currently 3  
spaces



**Open Common** open science platform

WELCOME SEARCH DATA DEPOSIT DATA RESOURCES ACTUALITIES CONTRIBUTE ABOUT US CONTACT Register Login

Open Common est une plateforme internet qui accompagne les scientifiques à consulter les données de la recherche et à publier selon les principes FAIR leurs jeux de données dans des entrepôts de données partenaires.

La plateforme Open Common (OC) permet la saisie des métadonnées descriptives des ressources de la recherche tout en respectant les standards et les recommandations internationaux du web des données (W3C), des données ouvertes (DCAT), de l'union européenne pour les données scientifiques multidisciplinaires(DCAT-AP-JRC) et de l'éco-système numérique de la science ouverte. Elle offre un unique point d'accès à l'éco-système numérique de la science ouverte facilitant la saisie des métadonnées descriptives des ressources de la recherche selon un unique format défini par les standards tout en évitant des saisies multiples. L'utilisateur est supporté dans le processus de saisie des métadonnées descriptives et il est aiguillé dans le processus de dépôt des données comme la proposition d'un entrepôt.

Il est possible de s'inscrire à des espaces de données existants ou de demander l'ouverture d'un espace de données sur la plateforme. Un espace de données est dédié à une communauté de recherche qui peut être interdisciplinaire afin qu'elle puisse organiser ses données d'intérêt et publier sa production de données quelque soit sa taille.

Interact with data stewards and cooperate with your community to enrich your data.

**DRIIHM Space**  
Lauréat de la deuxième vague de l'appel à projet Laboratoire d'Excellence (LabEx) dans le cadre du programme « Investissements d'avenir », le LabEx DRIIHM, Dispositif de Recherche Interdisciplinaire sur les Interactions Hommes-Milieux, regroupe les Observatoires Hommes-Milieux (OHM, au nombre de 131), outils créés par le CNRS-INEE en 2007.  
Ce LabEx mis en place initialement pour 8

**IRIT Space**  
L'Institut de Recherche en Informatique de Toulouse (IRIT), une des plus imposantes Unité Mixte de Recherche (UMR5505) au niveau national, est l'un des piliers de la recherche en Midi-Pyrénées avec ses 600 membres, permanents et non-permanents et une centaine de collaborateurs extérieurs.

**UFTmip Space**  
Au 1er janvier 2023, l'Université de Toulouse est créée. L'Université de Toulouse constitue un établissement d'enseignement supérieur et de recherche au service de la science et de la société. L'Université de Toulouse est une communauté d'universités et d'établissements expérimentale, qui rassemble les membres fondateurs de

# Prototype overview (Moke-up)

## DRIIHM home page

2

The screenshot shows a web-based prototype for the LabEx DRIIHM platform. At the top left, there's a sidebar titled "OPEN COMMON" with a "Labex Driihm / Home" link. On the right side of the top bar are "Se connecter", an envelope icon, and a menu icon. The main content area has a header "LABEX DRIIHM". On the left, a "Filtrer" sidebar lists categories: "Home" (with "Public resources", "Public data" containing "LabEx DRIIHM", "OHM A", "OHM B", and "Dataset 1"), "Public publications", "Public searches" (with "Search A", "Search B", and "Search C"). The main content area includes a "Présentation" section with placeholder text, a "Rechercher" search bar, and a "Rechercher des ressources scientifiques (data set / publications / Codes)" search input. Below these are five orange-bordered buttons: "Access to my community resources", "Reference / Catalogue my resources FAIR", "Publish my resources FAIR", "Manage my resources", and "Access & Share thematic vocabulary FAIR". The "Documents" section contains six cards: "Open Science resources" (publication, data dataset, catalog, paper, datapaper, code, snippet, vocabularies, DMP, activity, workflow, image), "Understanding resources organization and data organization" (metadata and standards (DCAT...), vocabularies, DMP, datapapers), "Share open science properties and FAIR principles", "Understanding open science numeric ecosystem" (Persistent Identifier (PID), services, data repositories), "Understanding the platform and its services" (scouting, exploring and collaborating, get good practices, ask support), and "Support fonctionnalités" (developer's corner).

# Prototype overview (Mock-up)

## Dashboard

The screenshot shows a web-based dashboard interface. At the top left is the 'OPEN COMMON' logo with three stylized human figures. To its right is the text 'Labex Driihm / Dashboard'. On the far right of the header are icons for language (French), user profile, and settings. Below the header is a vertical green sidebar on the left labeled 'LD' at the top. The main content area is titled 'DASHBOARD' in large green capital letters. It contains two sections: 'My last datasets' and 'My last searches'. Each section has a title, a 'Manage my datasets' or 'Start a new search' button, and a 'Add a dataset' or 'Add a search' button. Under 'My last datasets', there are four cards for 'Dataset A', 'Dataset B', 'Dataset C', and 'Dataset D', each showing 'Date' and 'Status'. Under 'My last searches', there are three cards for 'Search A', 'Search B', and 'Search C', each showing 'Date'.

# Prototype overview (Mock-up)

## Search

The screenshot shows the 'SEARCH' page of the Open COMMON platform. At the top, there are navigation links for 'Dashboard', 'Logout', and a user icon. Below the header, there are two buttons: 'Manage my searches' and 'Save my search'. A search bar contains the placeholder 'Search' and includes a magnifying glass icon and a clear button. Underneath the search bar are three filter buttons: 'Dataset' (selected), 'Keyword', and 'Reset all filters'. To the right of the search bar is a 'Sort' link.

On the left side, there is a sidebar with several dropdown menus:

- Recherche**: Options: Intense (selected), Extreme, All.
- Catalogue**: Placeholder text: "Choix ici ou avec l'arbre ? D'un ou plusieurs catalogues ? ou l'arbre a plus une fonction de navigation / etait une fois connecté à son compte".
- Resource type**: Options: Dataset (selected), Publication, Code, Vocabulary, --.
- Format**: Options: Shapefile, Excel.
- Themes**: Options:
  - Environmental Sciences
  - Life Sciences
    - Food and Nutrition
    - Animal biology

Below the sidebar, there are several filter buttons:

- Keyword
- Temporal coverage
- Spatial coverage
- Authors
- Publisher
- Available in
- Licence

The main content area displays a dataset card:

**Dataset title**  
Identifier / version: John Doe; Jane Doe  
Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tationem nonnullam praesent tincidunt ut laoreet dolore magna aliquam erat volutpat.

3 published distributions      FAIR Level       Parent catalogue A

Below the dataset card, there are three large, empty rectangular boxes representing additional dataset cards.

# Prototype overview

(Mock-up)

## Manage my searches

The screenshot shows a web-based application for managing search history. At the top, there's a header with the 'OPEN COMMON' logo, the text 'Labex Driihm / Dashboard / Manage search', and a language switcher (French). Below the header is a search bar with a magnifying glass icon and the placeholder 'Filter searches', followed by a green 'New search' button.

The main area is titled 'Manage my searches' and displays a table of search results. The columns are labeled 'Titre', 'Description', 'Access', 'Last research date', and 'Results'. Each row represents a search entry with these details. To the right of each row is a vertical column of five buttons: 'See results', 'Replay the search', 'Modify the search', 'Change access', and 'Delete'.

Below the table, there are two expandable sections labeled 'Historique de recherches' (History of searches) with arrows indicating they can be collapsed. Each section shows a list of dates and dataset counts, with a small circular icon next to the last item in the list.

Titre	Description	Access	Last research date	Results
Research title	Lorem ipsum	Public Shared Private	28-02-2024	18 Datasets
Research title	Lorem ipsum	Public Shared Private	28-02-2024	18 Datasets
			24-02-2024	15 Datasets
			21-02-2024	13 Datasets
Research title	Lorem ipsum	Public Shared Private	28-02-2024	18 Datasets

# Prototype overview

## (Mock-up)

## Manage my datasets

The screenshot shows a web-based application titled "OPEN COMMON" under "Labex DRIIHM / Dashboard / Manage my datasets". The main title is "Manage my datasets". A yellow tooltip at the top right of the table header area says "tri sur les éléments du tableau : Titre / Access / Date / Status / par def : Last date". A search bar "Filter dataset" and a green button "Add a dataset" are also visible.

The table has columns: Title, ID, Licences, Intern Access, Visibility, Last version date, Version number, and Status. The rows represent datasets:

- Dataset title 1:** DOI, short name (lien licence), Public (Private Shared). Status: Externally referenced Metadata Data Published > Distributions 1/1. Actions: Modify metadata, Add a distribution, Publish metadata, Change access, Duplicate dataset.
- Distribution A:** Id, ... (Public from date Private Shared). Last version date: 28-02-2024. Version number: V3. Actions: Modify metadata, Add a distribution, Publish metadata, Change access, Duplicate dataset.
- Distribution B:** Id, short name (lien licence), Public (Public from date Private Shared). Last version date: 28-02-2024. Version number: V7. Actions: Modify metadata, Add a distribution, Publish metadata, Change access, Duplicate dataset.
- Dataset title 2:** Id, Public (Private Shared). short name (lien licence) with an "Open Access" icon. Status: Lien Catalogue interne Lien Catalogue externe. Last version date: 22-02-2024. Version number: V3. Actions: Modify metadata, Add a distribution, Publish metadata, Change access, Duplicate dataset.
- Dataset title 3:** Id, Public (Private Shared). Status: Lien Catalogue interne Lien Catalogue externe. Last version date: 17-02-2024. Version number: V3. Actions: Modify metadata, Add a distribution, Publish metadata, Change access, Duplicate dataset.

Below the table, there are buttons: "Open distributions" (under Dataset title 2) and "Open distribution" (under Dataset title 3).

# Prototype overview

## (Moke-up)

## Dataset deposit workflow

\* These properties are mandatories. They are F and R (not A nor I) regarding FAIR principles

The screenshot shows the 'Describe the dataset' step of the 'Dataset deposit workflow'. The interface includes:

- Choisir la fiche**: FAIR (green button), Mandatory (grey button).
- Titre\***: FAIR (green button).
- Description\***: FAIR (green button). A modal window displays placeholder text: "Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim". It also contains a link: "Lien lorem ipsum".
- Auteurs\***: FAIR (green button).

The right side of the screen shows the overall workflow steps:

- 1 Describe the dataset**: The more you complete metadata fields, the more the dataset will be FAIR! By default your dataset will be stored in: Home / My resources / My data.
- 2 Select a Catalogue and metadata visibility**: Select a place to store the Dataset metadata. Select the level of visibility for metadata in the chosen catalogue.
- 3 Add Distribution(s) Recommended**: Upload your files and describe them to store and publish them in a Data Repository. You can also reference a data service if the data is accessible by this means.
- 4 Select a Data Repository**: If Distribution with file. Choose a Data Repository to publish your Dataset and its Distributions, and consequently obtain a DOI.
- 5 Summary and confirmation**: This step summarizes the informations you entered and the ones generated by Open Common. You can confirm the Dataset creation or go back to modify it. The Dataset is created as private and is sent to a moderator to be integrated in the catalogue you chose. If Distributions with files added, the Dataset and its Distributions will be sent to the Data Repository you choose, the latter might moderate your deposit and contact you in case of modifications needed. You can anytime check the status of your Dataset from your Dashboard.

## 7. Conclusion & outlook

The work of acculturation on open science has got off to a good start

More and more researchers are interested in sharing and opening up OHM(i) data

IT developments for the platform will continue, and we hope to see it go into production at the end of 2024, beginning of 2025 with the first operational functions

It's a start and the change in open science practices will continue

Making data as FAIR  
as possible is no  
longer an obstacle



Improving the visibility of  
OHM data so that they can be better  
exploited and cross-referenced



Thank you to  
everyone  
involved in the  
SO-DRIIHM  
project

Corinne Pardo,  
Mathieu  
Massaviol and  
all members of  
the data  
DRIIHM group

Optimising links between  
OHM(i) researchers and  
support staff

F. Mazier et al.

T. Houet H. Lepage

E. Foulquier, P.J. Lopez

P.I. Ndiaye & A. Niang

N. Montes de Oca & S. Daviet

M. Rapinski et al. JM. Olivier

M. Noucher et al. C. Vella et al.

V. Michot & A. Bergouignan

P. Amouroux

A.L. Boyer

Volunteer  
scientists

HAVE A QUESTION?  
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