

## 1. Introduction | The Health Data Hub, a public health data service

The uses of health data are increasing and it has become essential to ensure access to data sources as quickly as possible. Created at the end of 2019, the Health Data Hub is a public body tasked with facilitating access to health data for projects in the public interest, following the granting of open access to the French National Health Data System (Système national des données de santé – SNDS) in 2016.







The HDH actively supports 213 innovative projects to this date.



## After five years, where do we stand?



Production launch of a technology platform in just one year



**Recruitment of staff to reach 116 people** by 1 January 2025



**Support for 213 projects**, a third of which are led by industrial actors



Major European involvement, notably as leader of the HealthData@EU Pilot project, to build the first version of the FHDS



More than 100 active partnerships, resulting in the development of links with the entire ecosystem, including civil society



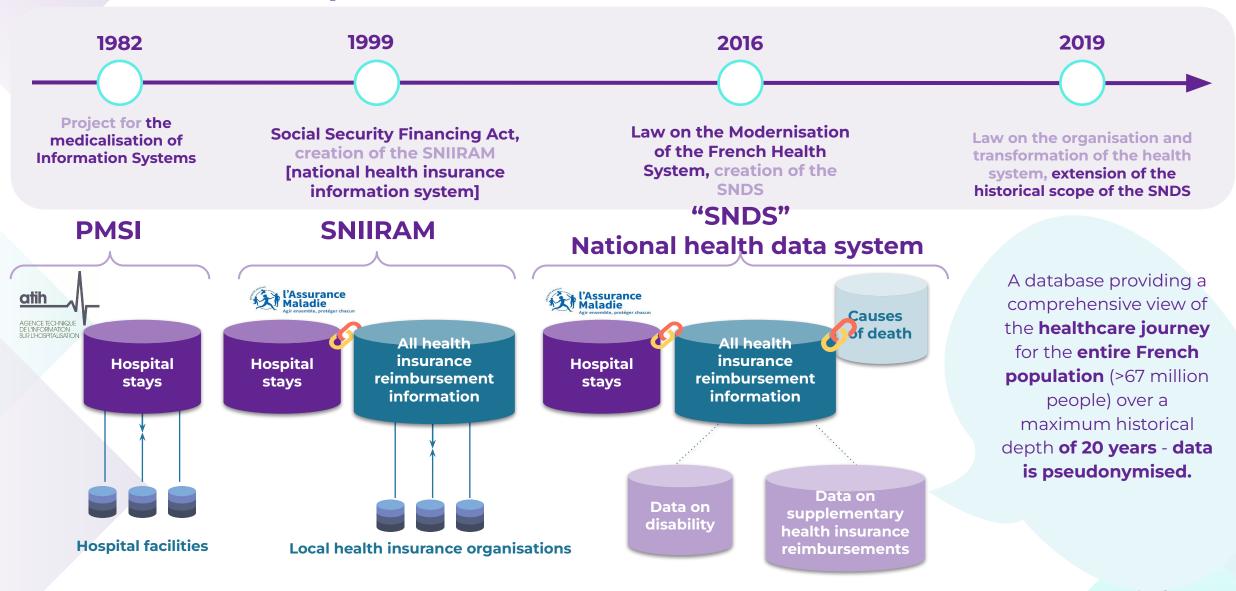
A major impetus for the constitution of new databases: AAP on health data warehouses (€75M), P4DP project (€10M)



More than 650 public talks since 2021 and participation in major projects such as PariSanté Campus, FIAC, DARWIN



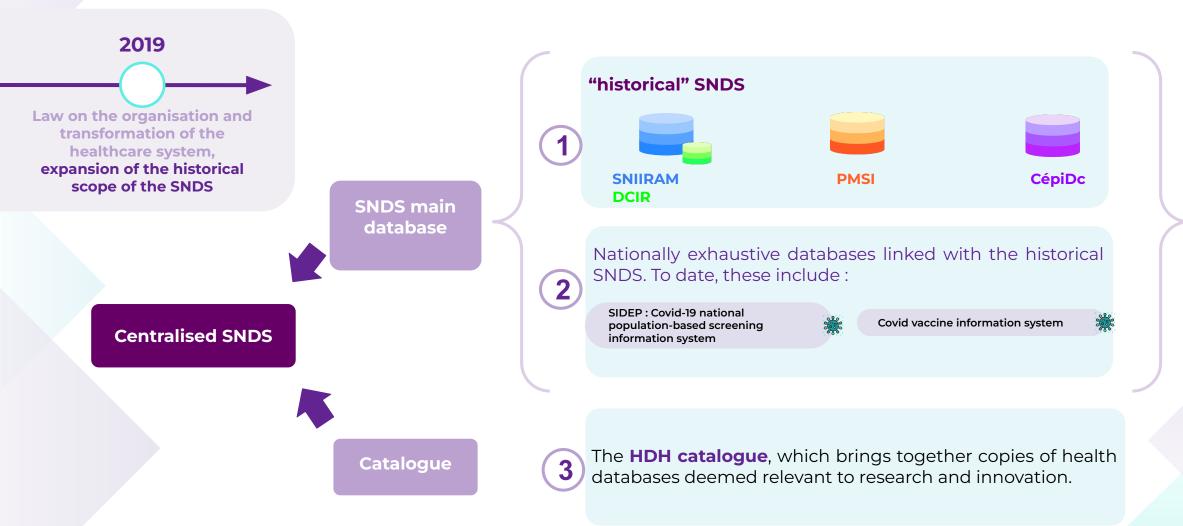
## What is the expanded SNDS? Context of creation







# Following the law of 2019, the scope of the SNDS has been expanded with the HDH catalogue



## The data catalog will soon be expanded to include other databases addressing a wide range of public health issues.

The **SNDS** catalog is a collection of databases that is not fixed in stone, but is built up iteratively. The decree of May 12, 2022 lists the **first 10 databases** to be included in the catalog, to which will be added the databases identified to join the catalog.

Base e-sis: breast cancer

Base ATU: early access

**BNDMR**: rare diseases

**EPICOV**: Covid-19

**ESME**: breast cancer

**E-must**: myocardial infarction

**HEPATHER**: hepatitis B or C

MDO: list of mandatory diseases

Memento: Alzheimer disease

**OSCOUR**: emergency monitoring

The integration of 12 other databases is currently being examined by the CNIL:

#### **Databases from call for project**

**ARAC**: remaining expenses

APSOREN, TARPON: emergency

medicine, traumatology



**SEDAAR**: ophthalmology

APRIORICS, PRECISION PREDICT,

**NetSARC**: oncology

#### **Databases supported in their construction**

P4DP: creation of a data warehouse for community care

ISIS, REALIGIST: creation of an oncology reference

database



#### Other relevant databases

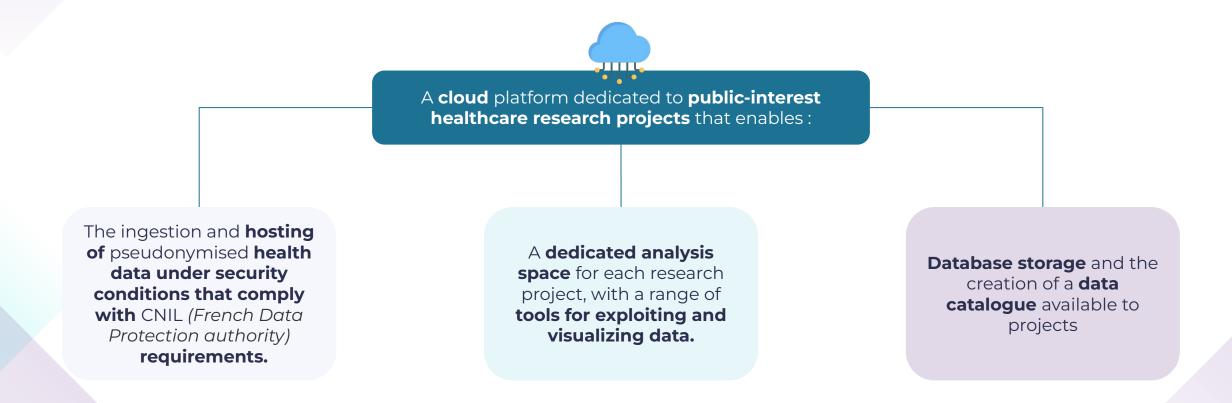
INTEGRA: hospital cohort on metabolic diseases

**UroCCR,** biological clinical registry for kidney cancer





## What is the technological platform? | Focus



It is part of the Health Data Hub's mission to simplify access to healthcare data, in a state-of-the-art technological and IT secure environment.



## 3. Technological offer | current offer\*

Programming languages and IDEs

Big Data infrastructures

Data visualisation

Data storage

Images

Collaboration

Available tools















Jse

- Data exploration
- Machine learning
- Image processing
- Queries and processing of a high volume of data
- Visualisation of data
- Structuring of data
- Queries

- Visualisation and annotation of images
- Code versioningDevelopment follow up

\*Complexity to take into account if a project leader wishes to use a tool outside the current technological offer

## How is the Health Data Hub being used in practice?



The Health Data Hub is the only French cloud technology platform



that provides health data projects with access to elastic storage and high computing capacity.



that allows different data sources to be linked



designed for use by a large number of users



while meeting the **highest security** standards



Supporting healthcare professionals in an increasingly complex clinical environment, with use cases such as the characterization of alerts for drug interactions, based on the main SNDS database



Saving time, improving screening, and reducing diagnostic delays — notably through the development of a diagnostic support tool for 10,000 MRIs



**Develop early warning systems for patient follow-up**, including the development of a warning tool for healthcare professionals based on data from connected medical devices, annotated with medico-administrative data



Offer patients the best long-term treatments, with use cases comparing care paths using cohort data enriched with medico-administrative data when clinical trials are not possible



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## The Health Data Hub works with the Government to prepare a national doctrine for hospital data warehouses

In 2022, the French government has launch a call for project to support the definition of a **national vision** for the creation of a national network of hospital health data warehouses.

Announce of **laureates** in two waves: April 2023 & 2024 T1 Call closed in April 15, 2023



#### Role of the Health Data Hub

- Provide operational support for the interministerial committee in organising the call for projects
- 2 Support the laureates in the implementation of their project
- **3** Manage the community



**75M€** allocated to laureates of the call

**50%** of expenditure covered

research and innovation projects to be launched min.

12 to 40

Standard data provision contract

Creating a National doctrine for hospital data warehouses will allow to:



Standardise practices and tools at the national level



Define a target territorial coverage



**Build a sustainable financial model** 







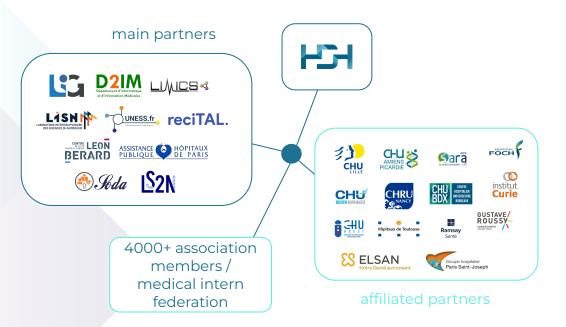
NHIS Global Forum 2025 - 11-12 June 2025

# The HDH commitment to support Al | "PARTAGES" a candidate consortium for the "Digital Commons" call, to create medical LLM in French and a corpus of synthetic medical records



The HDH has created a consortium to respond to the "digital commons for generative AI" call for projects, launched as part of France 2030. The consortium is mobilising cutting-edge skills to produce impactful deliverables that will be 90% open source and reusable by the entire medical, academic and industrial scientific community.





### Resulting in:



A basic medical LLM in French, open source



A training database of 10,000 fictional medical reports



Specific algorithms corresponding to initial use cases or training relevant to the ecosystem



A federated national platform for validating models on real hospital data that can be reused as part of the Grand Challenges program

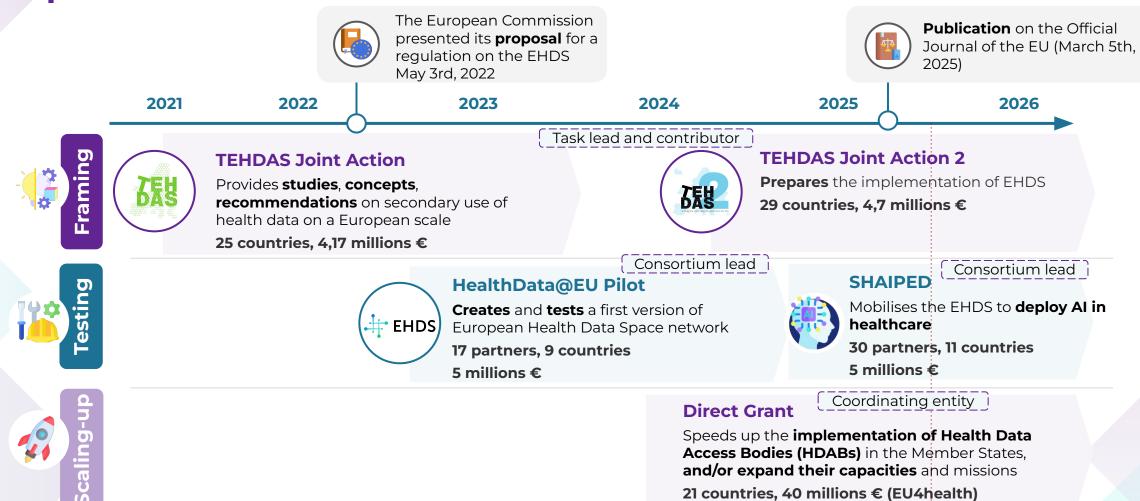


Methodological guides for algorithm refinement (fine-tuning) by hospital staff using their own data



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# **Growing initiatives for European Health Data Space implementation**





## **Overview of the SHAIPED project**

Supporting Health Data Access Bodies to establish Al Pathways Enabling Deployment of Al as medical device tools

4M€ in EU funding

**30 Partners throughout Europe** 

**Research Institutions / Hospitals / Public Instances / Start-ups** 















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**Member States involved** 

11 HDABs and other related organizations











## Within the 3 next years, SHAIPED is expected to provide the foundations and first results of an European Al space for health

SHAIPED aims at identifying, building new and strengthening existing pathways for AI medical device development, testing and deployment provided by Health Data Access Bodies

Framework Design



#### **Pathways**

More effective pathways for developing, testing and deploying AI medical devices leveraging EHDS and HDABs



#### **Capabilities**

Creation and implementation of the **necessary capabilities** for HDABs and their ecosystem (innovation, regulatory and data) to support these pathwavs



#### Recommendations

**Guidelines, recommendations** and regulatory backdrop to implement those pathways







## **Concrete outcomes**

**Testing of established** pathways (3 use cases) with outcomes, opportunities and challenges to consider











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