



HEALTH
DATA HUB

Health Data Hub

**Secondary use of
Health Data - European
Perspective**

The Health Data Hub is a project driven and supported by major public policies

The uses of health data are multiplying and access to data sources in the shortest possible time is essential. The Health Data Hub is a public structure created at the end of 2019 to facilitate access to health data for public interest projects in order to improve the quality of care for patients.



A unique gateway to health data in France



A state-of-the-art and secure technological platform



A collection of databases, including one of the largest medico-administrative database in the world

A project driven and supported by major public policies



Created following the **Villani report** promoting the implementation of large data sharing platforms to foster AI



A flagship project and an active contributor to the **National Strategy for Artificial Intelligence**



One of **FTAP's** (Public Policy Transformation Fund) major projects



One of the initiatives of the **French Digital Health Roadmap**

The HDH unique gateway for access to health data



Health data



without
starter kit

with
starter kit



The HDH is the one-stop shop for data access. The data access request is submitted online on a dedicated platform. It provides a **starter kit** to guide project leaders through the process.



The HDH verifies the completeness of the file and transmits it, if necessary, to the **Ethic and Scientific Committee** (CESREES) for evaluation.



If the CESREES gives a favourable opinion on the project leader's request, the **Data Protection Agency** (CNIL) assesses the request for access to the data for approval.

Which data is available in the main SNDS database?

- ✓ The SNDS is a **compilation of pre-existing databases fed by data flows**
- ✓ **These databases are already linked to each other** to enhance opportunities for research and innovation
- ✓ **We can link external databases with data from the SNDS**

The SNDS is made available on the National Insurance Fund portal, after a positive opinion from the CESREES scientific and ethics committee and authorisation from the CNIL.

3 main databases



SNIIRAM
DCIR

All data linked to health insurance reimbursement since 2006



PMSI

French hospitals discharge database allows to define the activity of hospitals, both from the public and private sector, for the initial purpose of hospital budget planning allocation



CépiDc

Medical Cause of Death Database to be matched with SNIIRAM. *The database does not contain any name.*

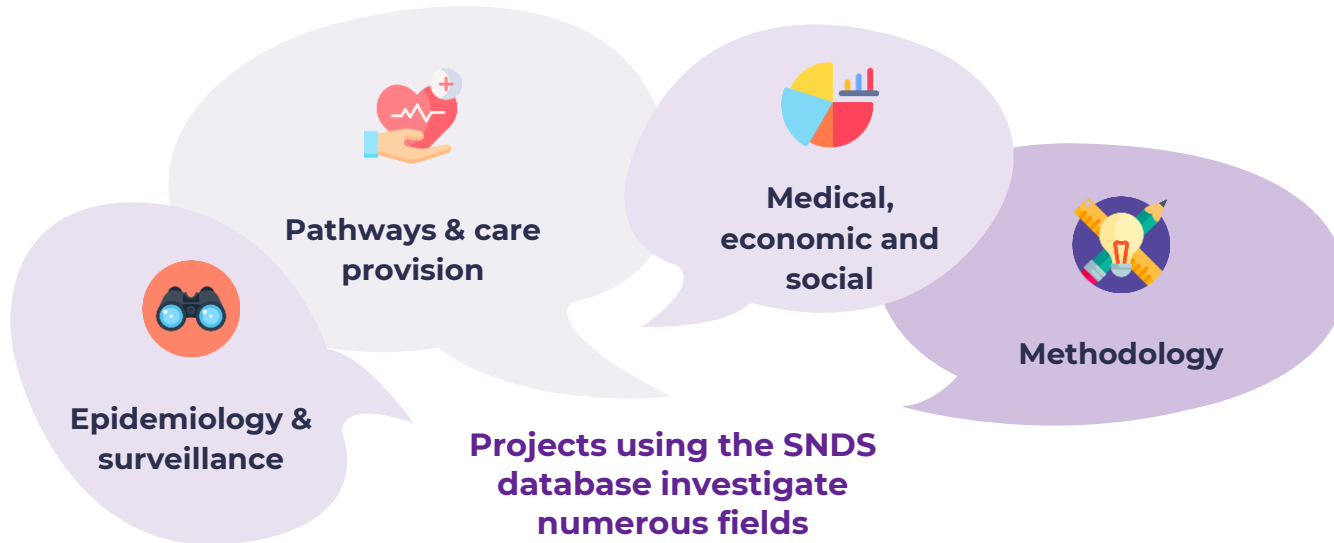
The use of the SNDS database by type of project as of today

435

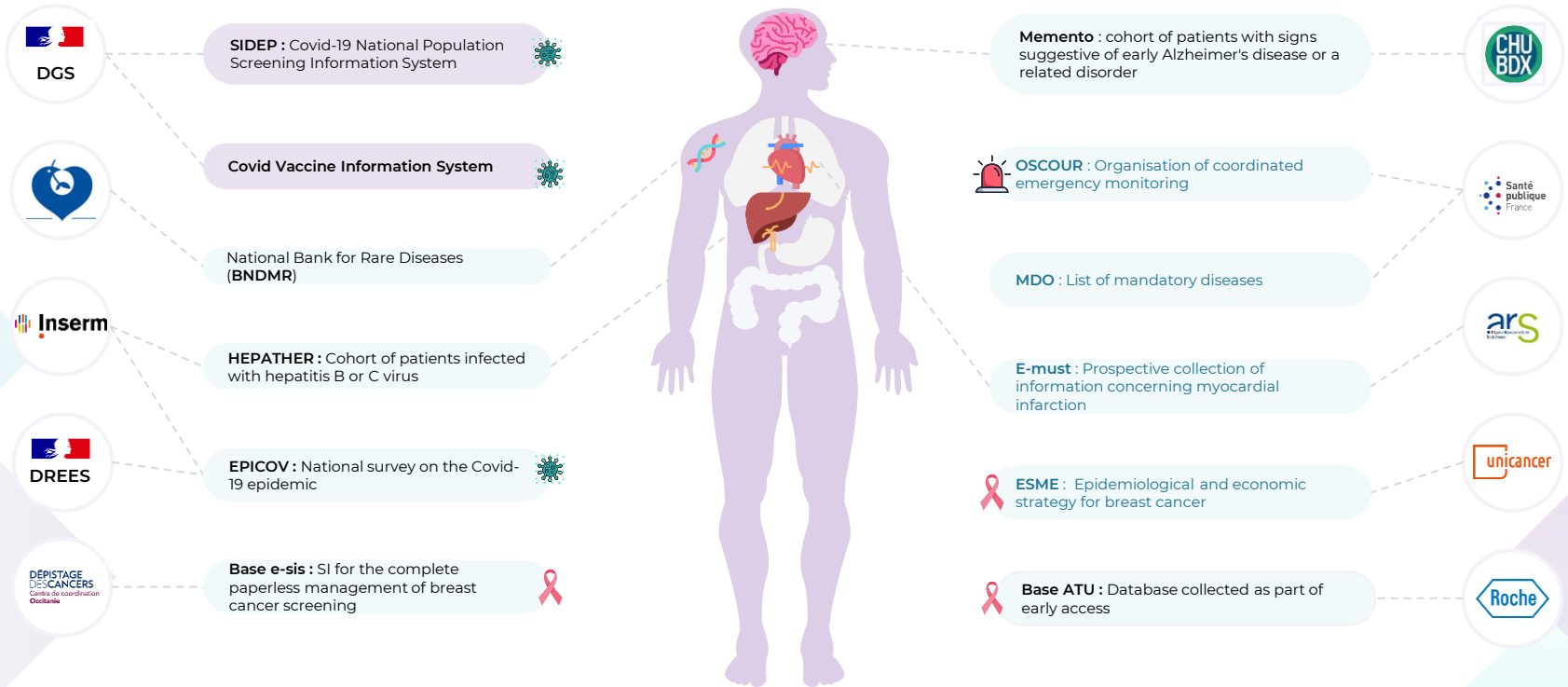
projects submitted to CESREES requested access to the SNDS database since the start of HDH



more than **#100** publications related to SNDS studies in 2020



Go beyond the use of the SNDS by making available existing databases of interest available to project leaders



Why is the Health Data Hub a *game changer* in research for health improvements?



Le Health Data Hub is the only french **cloud technological platform** providing health data projects with :



providing health data projects with **elastic storage and computing capacities**



offering **the ability to link multiple different data sources**



suitable for a large number of users



meeting the **highest safety requirements**



Supporting the health professional in an increasingly complex clinical context with use cases like characterising alerts in case of drug interactions from the main SNDS database



Save time, improve screening, and reduce delays in diagnosis with projects like the one developing diagnostic tool for 10,000 MRI scans



Early warning systems for patient management with projects like the one developing an alert tool for medical professionals based on data from connected medical devices annotated with medical and administrative data



Offer patients the best long-term treatments with use cases using comparison of healthcare using cohort data enriched with medical and administrative data when clinical trials are not possible

The HDH supports a wide variety of projects...

#74 projects



Spontaneous arrivals

 **12** COVID projects as of today

... and tomorrow any project leader will be able to submit a project

Laureates of call for projects launched in collaboration with partners

either generalist...

...or thematic

Projects directly scouted by the HDH for their strategic interest and carried out with its partners

... such as patient associations, other data platforms, European and international actors, hospitals



 **EHDEN**
EUROPEAN HEALTH DATA & EVIDENCE NETWORK



FINDDATA
Social and Health Data Permit Authority



 **Fédération Française des Diabétiques**
Où patients et médecins contre le diabète

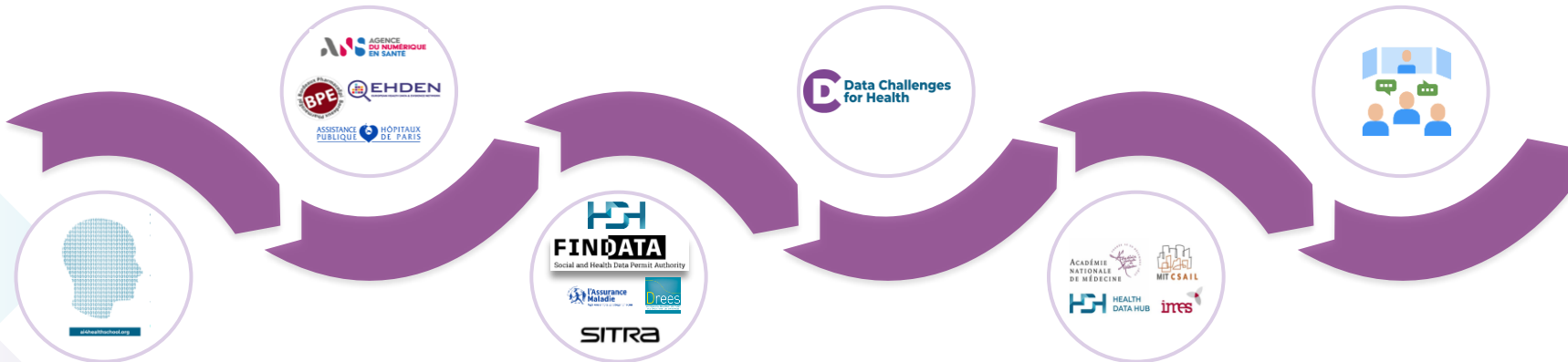
INRAE

The HDH is animating the health data ecosystem by creating meaningful contents and events and disseminate them

“Health data interoperability : A european challenge for impactful research project”

Data Challenges for health

4th edition of our "Health data and collective intelligence" colloquium



“AI4Health” Winter School

“What opportunities for national health data platforms?
in partnership with Findata

Symposium “AI and medicine”
in partnership with MIT

+120 events in which the Health Data Hub participated

#5 events supported by the French Presidency of the Council of Europe with the “PFUE” label

Health data sharing, a major priority for the European Commission and European health policy

Objective

remove obstacles to the smooth functioning of the data economy

Health data fragmentation



Multiple conditions for data use

Diversity of access governance models



Solutions

create an EU-wide governance framework for data access and use

2020

Data Governance Act proposal

2021

Joint Action TEHDAS “Towards a European Health Data Space”

2021

Pilot version of European Health Data Space: call for proposals financed up to 5m€

2022

Proposed **European Health Data Space** legislation

The HDH, leader of a European consortium to build and operate a first version of the EHDS



HealthData@EU pilot

17 partners, 9 countries
2 years
5 million euros of European fundings



Create and test a beta version of the European Health Data Space



Build a network of data platforms on a European scale...

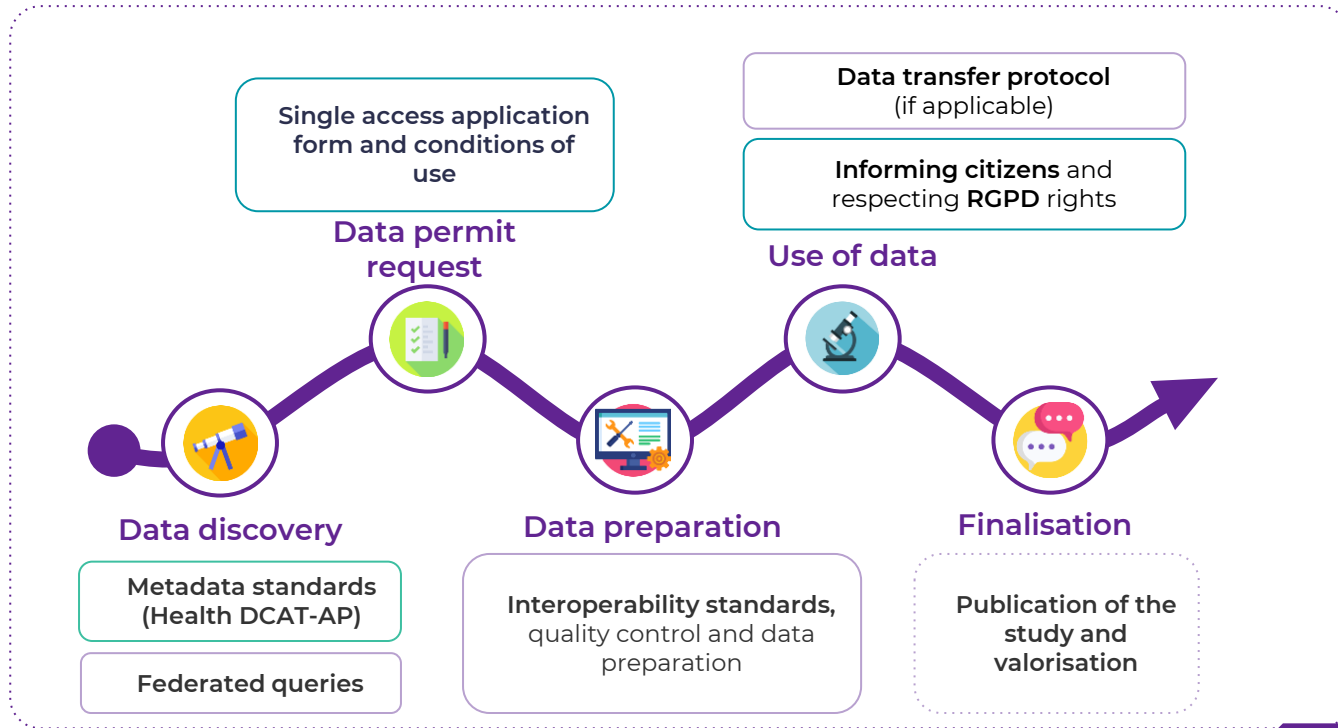


...tested by concrete cross-border use cases



The HDH, leader of a European consortium to build and operate a first version of the EHDS

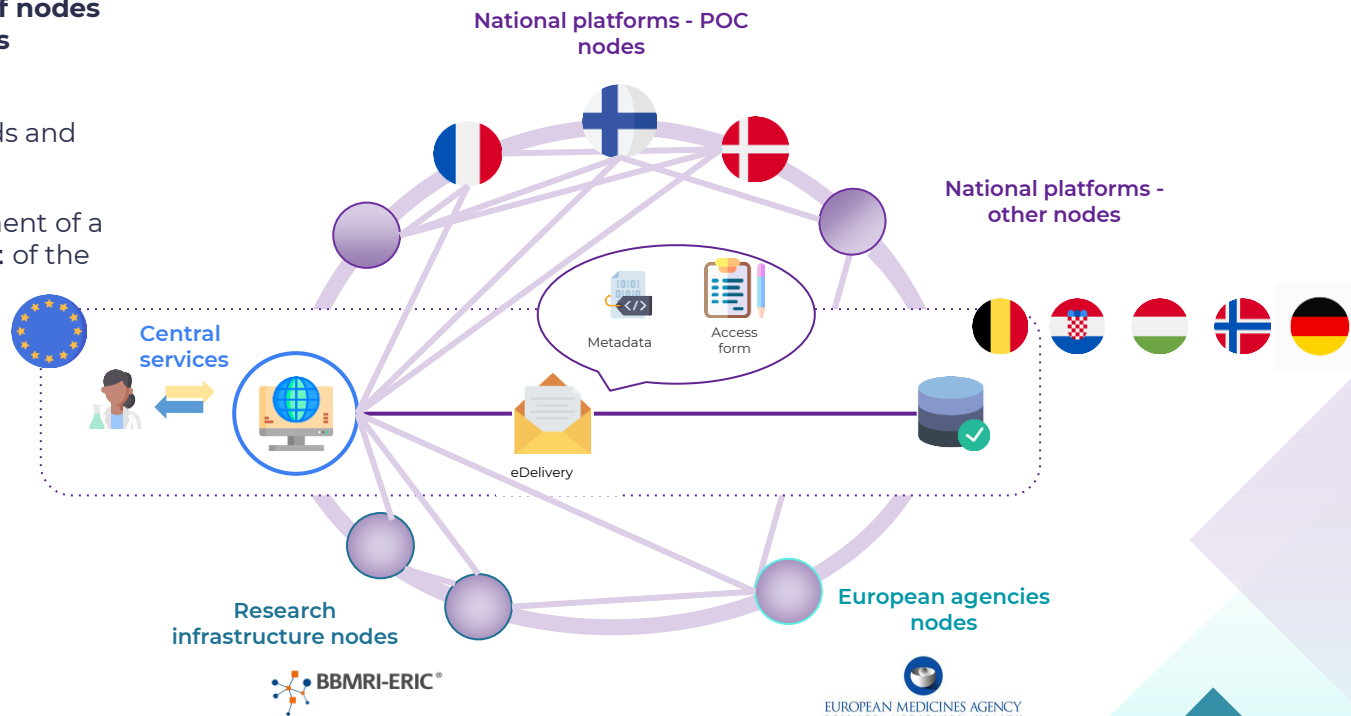
Create a first **user experience of the European Health Data Space...**



The HDH, leader of a European consortium to build and operate a first version of the EHDS

... based on a **technical infrastructure** allowing the exchange of information between nodes


- ✓ Design and deploy a **technical infrastructure** for the **network of nodes** and the link with **central services**
- ✓ Use European building blocks (eDelivery), open source standards and establish **security standards**
- ✓ After a **scoping phase**, development of a **POC**, then **MVP** and **deployment** of the network





The HDH, leader of a European consortium to build and operate a first version of the EHDS

1 


Antimicrobial resistance surveillance

led by 





2 

Identifying the risks of coagulation disorders in patients with Covid-19


led by 


EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH




3 


Test use, hospitalizations and vaccination adherence in vulnerable sub-populations


led by 




4 



Project to anticipate care pathways in cardio-metabolic diseases using AI


led by  HEALTH DATA HUB



5 

Identify genomic signatures characteristic of different types of colorectal cancers

led by  



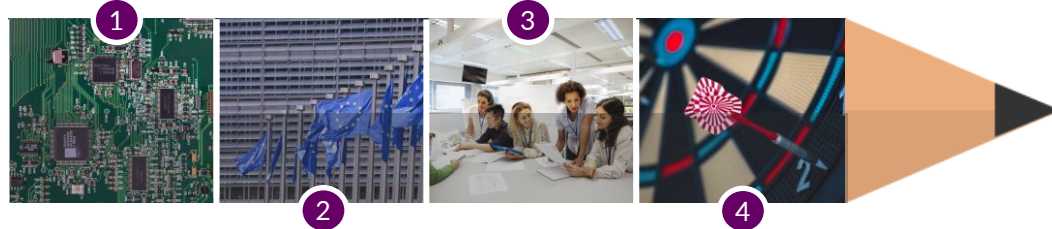
A broader strategy: building international partnerships with major actors



Joining impactful networks



Engaging in concrete partnerships




Answering to international and European calls for projects



Identifying new partners



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