



- Findable, standardized data at scale through the EHDEN Database Catalogue -

OHDSI Community Call
30 August 2022

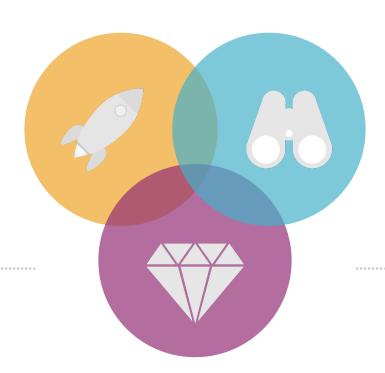
Julia Kurps, The Hyve



VISION & MISSION

Mission

Provide a new paradigm for the discovery and analysis of health data in Europe, by building a large-scale, federated network of data sources standardised to a common data model.



Vision

Aspire to be the trusted observational research ecosystem to enable **better health decisions**, **outcomes and care**.

Community Education Sustainability **Values**

Open science Quality Inclusiveness





Harmonisation

Harmonise in excess of **100 million** anonymous **health records** to the OMOP common data model, supported by an ecosystem of certified SMEs, and technical architecture for a federated network



Evidence

Impact our understanding of, and improvement of, clinical **outcomes for patients** within diverse healthcare systems in the EU



Community

Establish a self-sustaining **open science collaboration** in Europe, supporting academia, industry, patient organisations, regulators, payers, government, NGOs and others



Infrastructure



Creation of an **EU-wide** federated network architecture

Privacy by design

Data harmonisation to the OMOP common data model

Training & certification of **SMEs**

Research & Outcomes



Use cases to evaluate the EHDEN federated network

Collaboration on consistent **methodologies**

Collaboration with the global OHDSI research network

Incorporation of the ICHOM health outcome standards

Education & Community

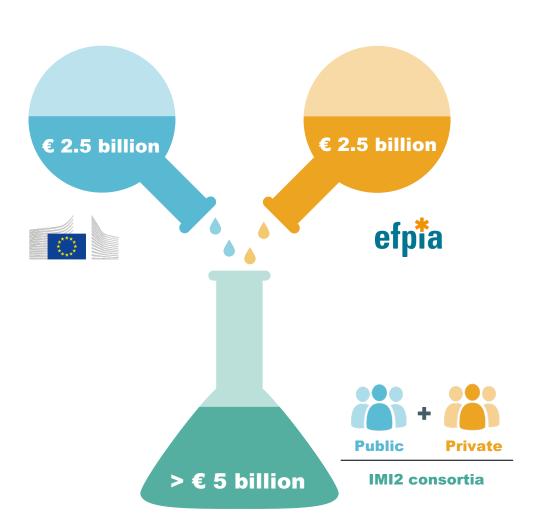


Establishment of the EHDEN Academy

Expansion of the **OHDSI** network in Europe

Collaboration on **collective memory** for research use cases







Carlos Moedas

EU commissioner for research, science and innovation

"Radical collaboration where multinational companies work together and share data instead of keeping it secret is helping to change the model of the pharmaceutical industry and solve problems more quickly." (Source)



Accelerate research and development.



Speed up patient access to innovative treatments.



Improve patient outcomes and safety of medicines.



EHDEN CONSORTIUM



Start date: 1 Nov 2018 End date: 30 Apr 2024 Duration: 66 months



23 partners



Almost €30 million

Universities, public bodies and research organisations



Academic coordinator











SME & Mid-sized companies







Non-profit organisations





EFPIA & Associated partners























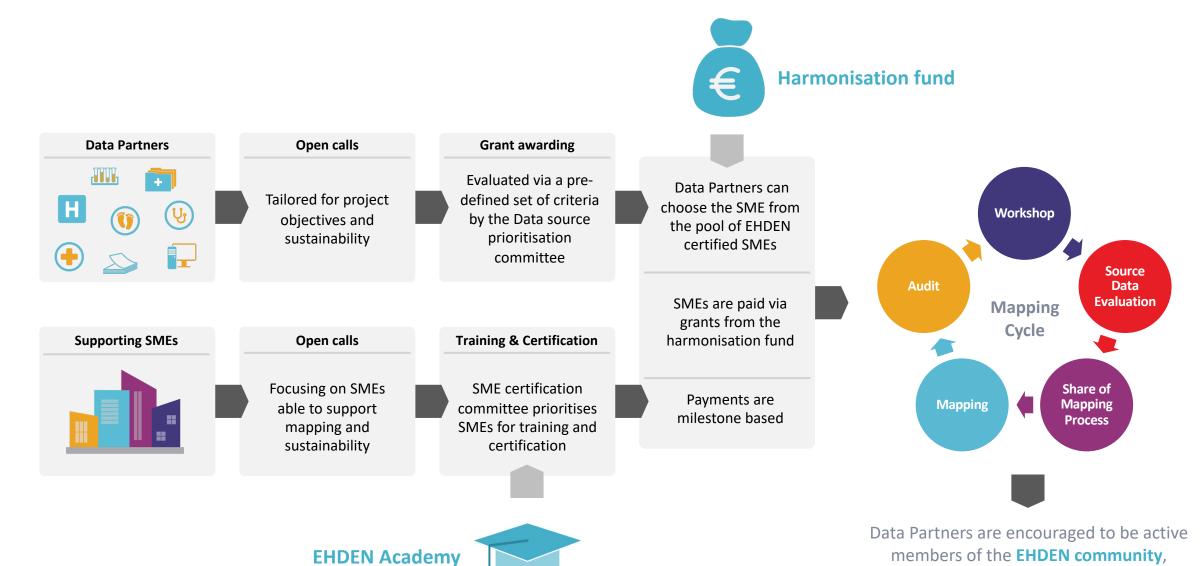








DATA PARTNERS AND SMES



participating in research studies.



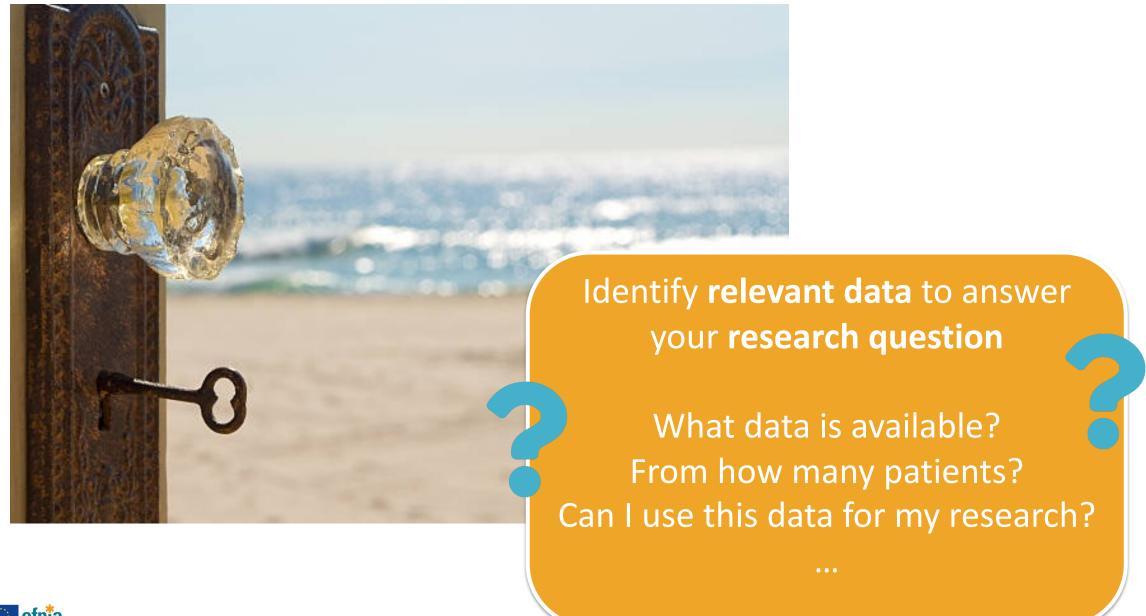
EUROPE: AN OCEAN OF DATA & A DESERT FOR ANALYSIS





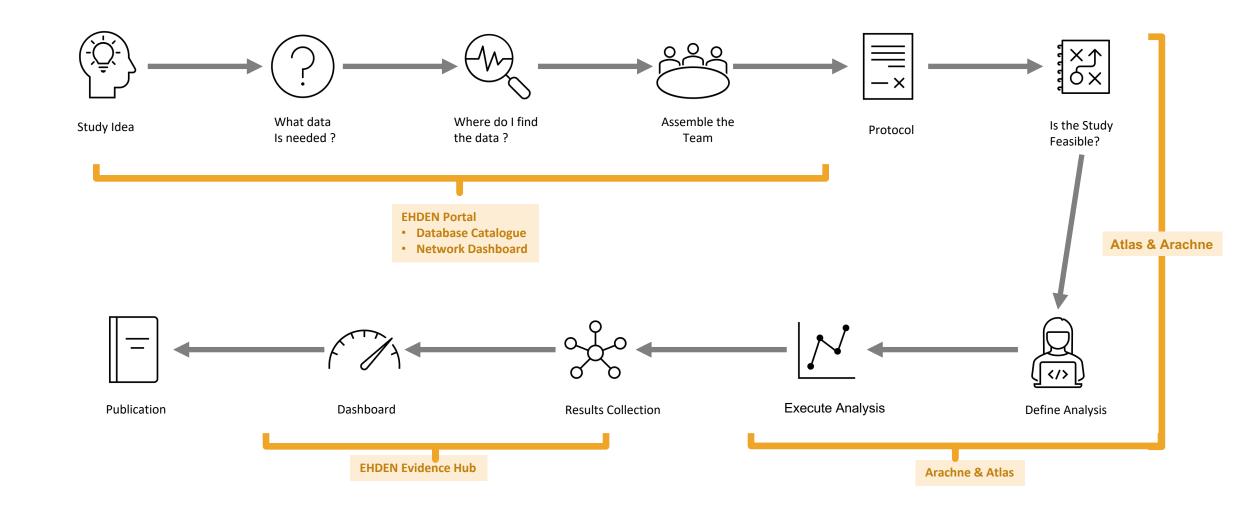


OPEN UP – KEY RESEARCH TOOL IN EHDEN





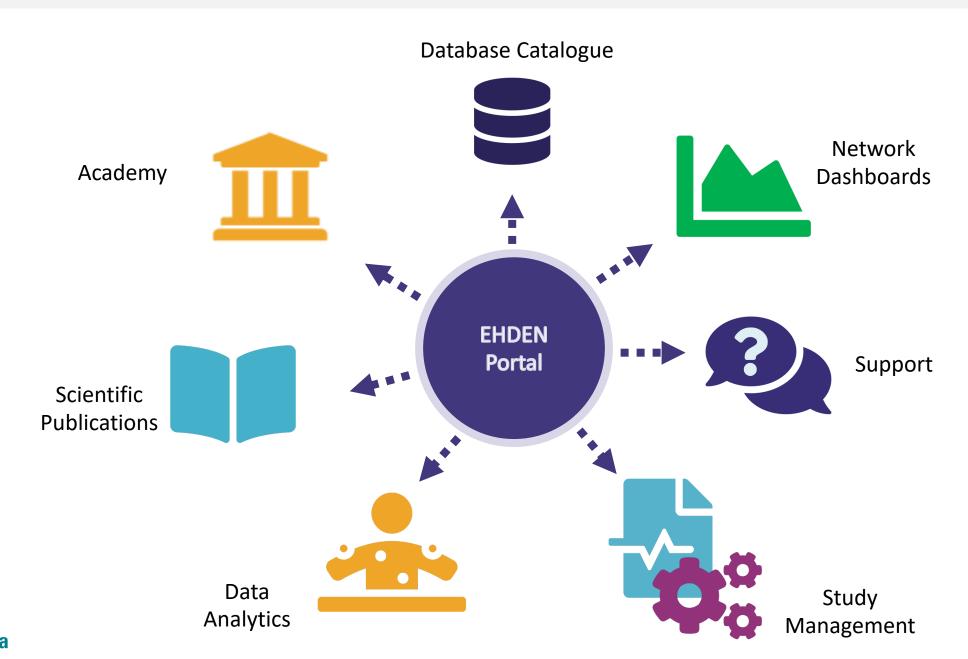
ROLE OF THE EHDEN PORTAL IN THE STUDY WORKFLOW







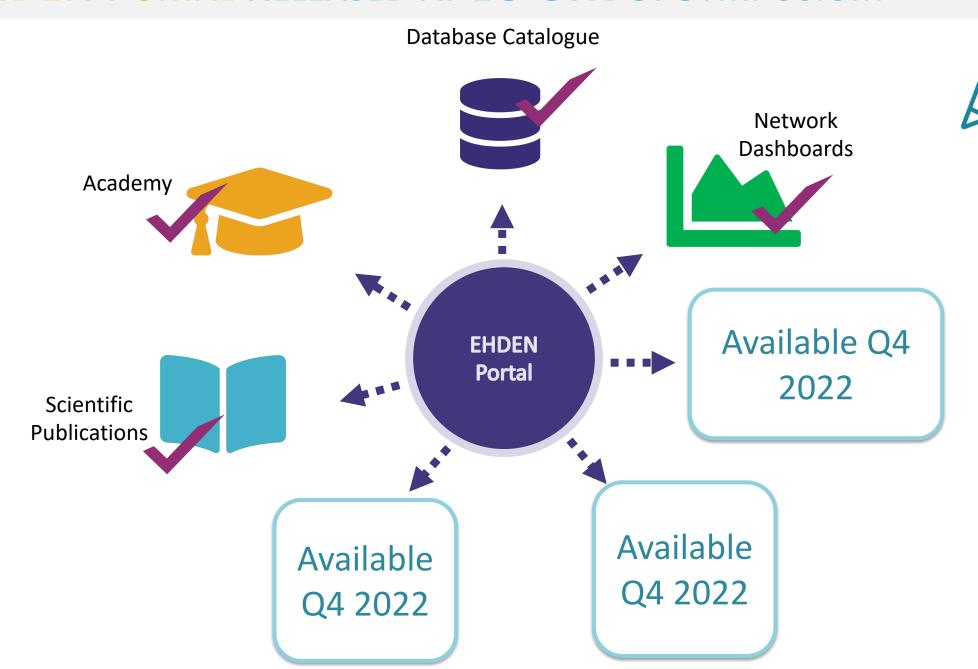
THE VISION OF THE EHDEN PORTAL — ONE-STOP-SHOP







EHDEN PORTAL RELEASED AT EU OHDSI SYMPOSIUM





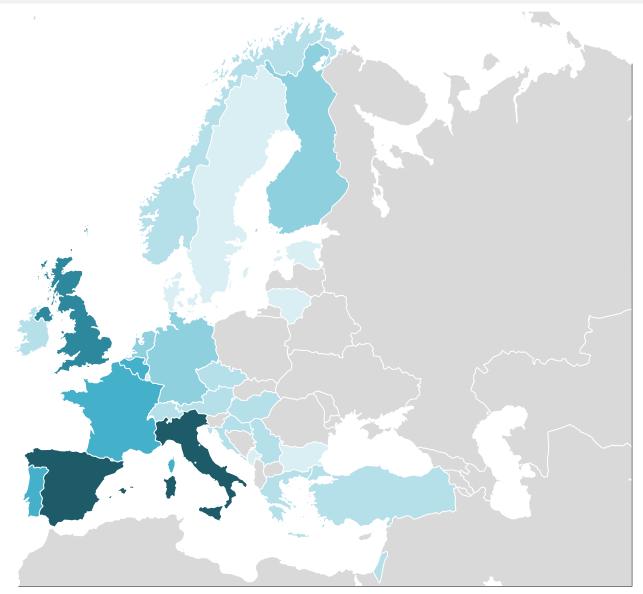








GEOGRAPHICAL SPREAD DATA PARTNERS

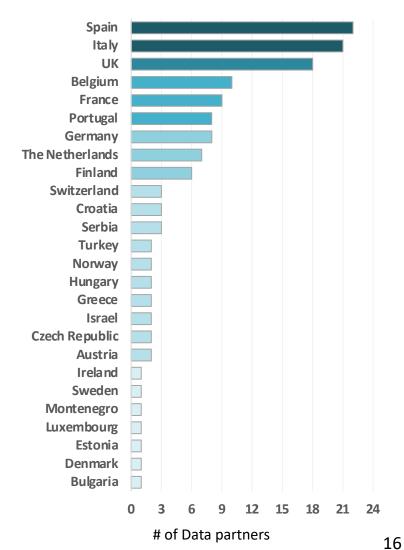


Geographic spread of data partners. The shade of blue indicates the # of data partners in that country (darker = more)

Applications (n=283)



Awarded applications (n=140)



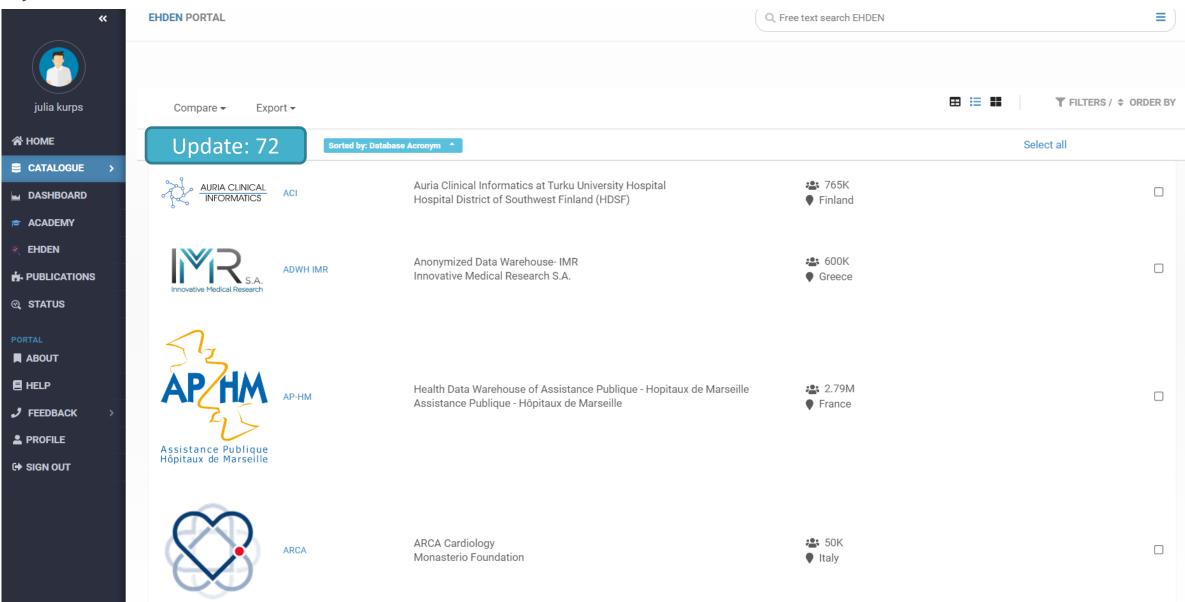








Database Catalogue – 67 Data Partners...and Counting











COMPONENTS OF THE DATABASE CATALOGUE

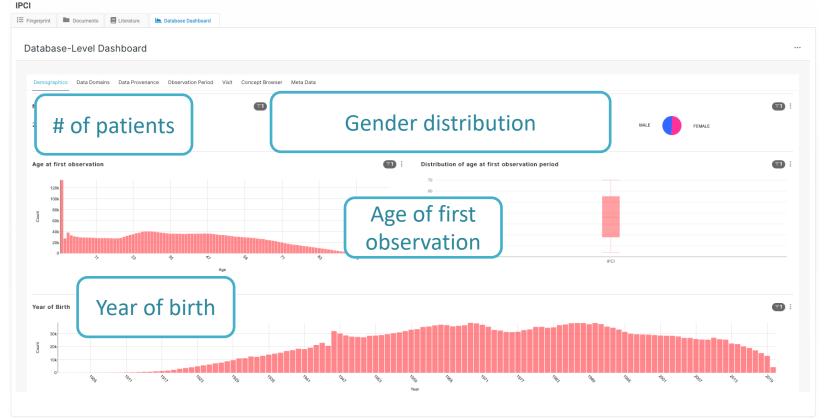
Database Fingerprint



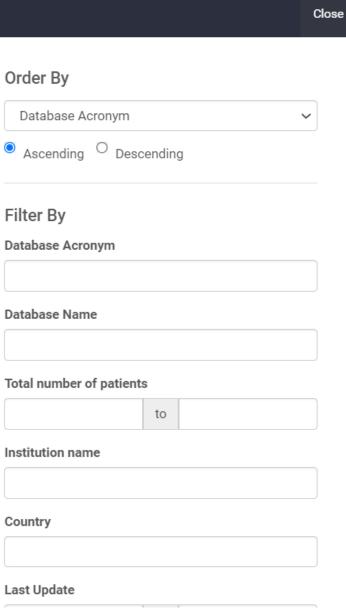
Database Dashboards



1. Database Description (20/20)	100%
2. Contact Details (10/10)	100%
3. Technical Details CDM (5/5)	100%
4. Data Governance and Ethics (9	100%
5. Publications (2/2)	100%







Explore the catalogue

- Is a certain database part of the EHDEN network?
- Which database has the highest patient counts?
- Find all databases from France
- Find the database with the most recent updates



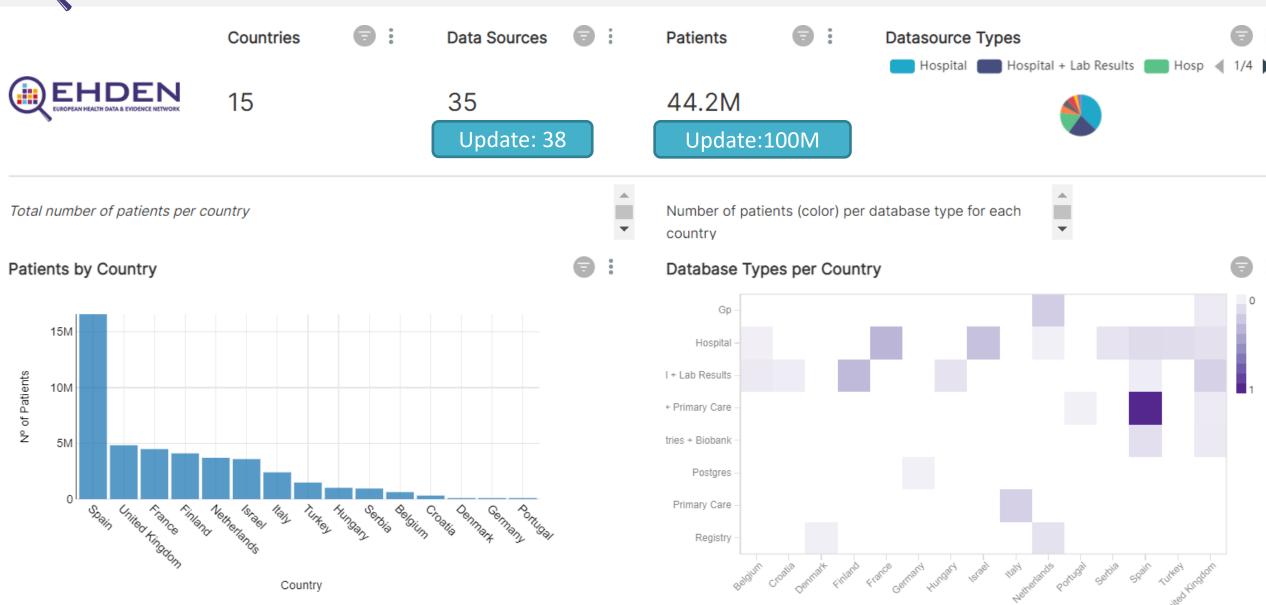






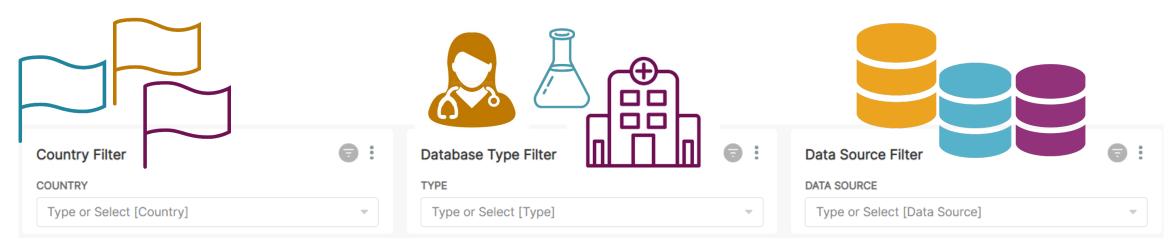


NETWORK DASHBOARDS - OVERVIEW





FILTER TO FIND RELEVANT DATA



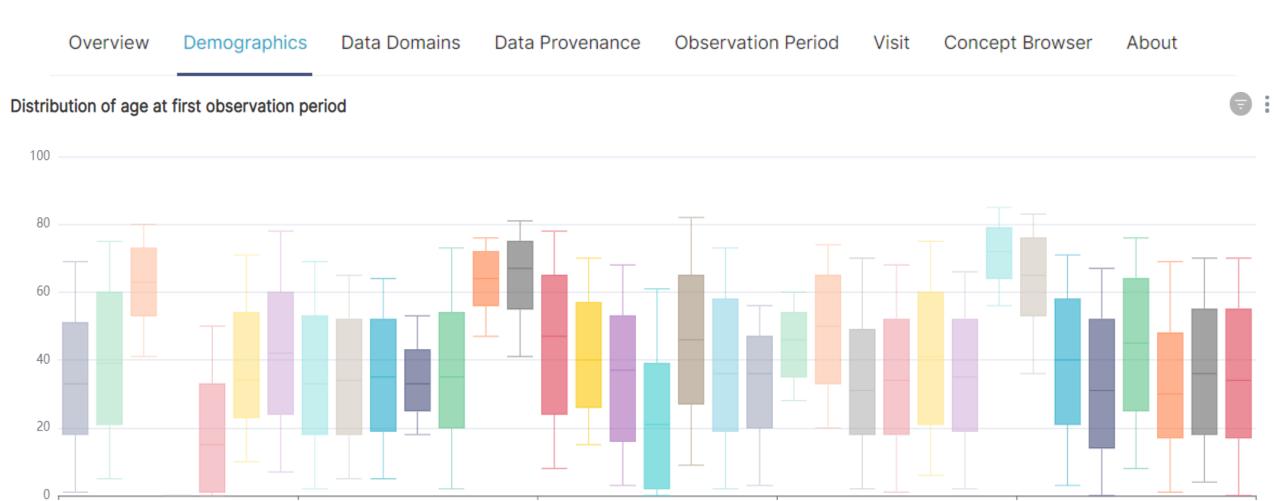
Use case examples

- Geographical spread
 Identify all EHDEN data partners from France
- Range of Source data systems
 Identify data partners that can provide GP data





Network Dashboards — Browse — Explore - Discover







GETTING STARTED



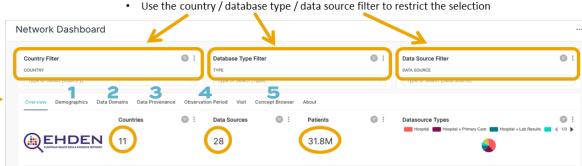
EHDEN Network Dashboard at a Glance

Total Number of datasources and patients in the network

Getting Access to the Network Dashboard

- Enter credentials on the EHDEN portal (https://portal.ehden.eu)
- Select the Network Dashboard icon on the left panel





Understanding gender or year of birth or age coverage

- · Go to the tab 'Demographics'
- · Gender distribution is shown in the top pie chart
- Age at first observation is presented in tabular format, bar chart and boxplot
- Year of birth is presented as bar chart.

Understanding what data are available for one or more data sources

- Go to the tab 'Data Domains'
- The 'Average number of records per person' indicates how many records per entity type are available. Use in conjunction with the above filters to select on country/database type or data source
- The pie chart gives the total number of records per entity type

Which data sources do contain a particular concept?

What's the available observation period?

Check the second graph – cumulative observation time

Click in the legend on a single item to select / deselect

Go to the tab 'Concept Browser'

Go to the tab 'Observation Period'

- —In the concept type, start typing part of the text string
- Select the concept that you want to search for

Double click to select a single data source

- Hit APPLY
- In the pivot table you can see approx. total number of records and descendant number of records. Further down, you see a graphical representation

Nice-to-know

- 1. Knowing the last update per datasource
- On the landing page of the network dashboard
- Scroll to the bottom meta data view
- · Cutoff date from the source data: source release date
- CDM date: cdm_release_date



2. Filtering results and other tricks

- Option A: top filters for selection on country / database type or data source
- Option B: When a legend is displayed, individual items can be selected / unselected or double click – select a single item from another list

3. Maxime your graph

When a graph is not readable: click on the icon and select 'maximise graph' from the pop-up

What is the source of the data?

- Go to the tab 'Data Provenance'
- The pivot table 'Visit Type Pivot' gives a count per entity type of the respective concept types e.g. EHR problem list entry, primary or secondary condition, hospitalization cost record etc.







AND THAT'S JUST THE BEGINNING...



More data partners will be added

Submission deadline DP Call #6 just closed

Integration with Data Analytics and Study Management capabilities





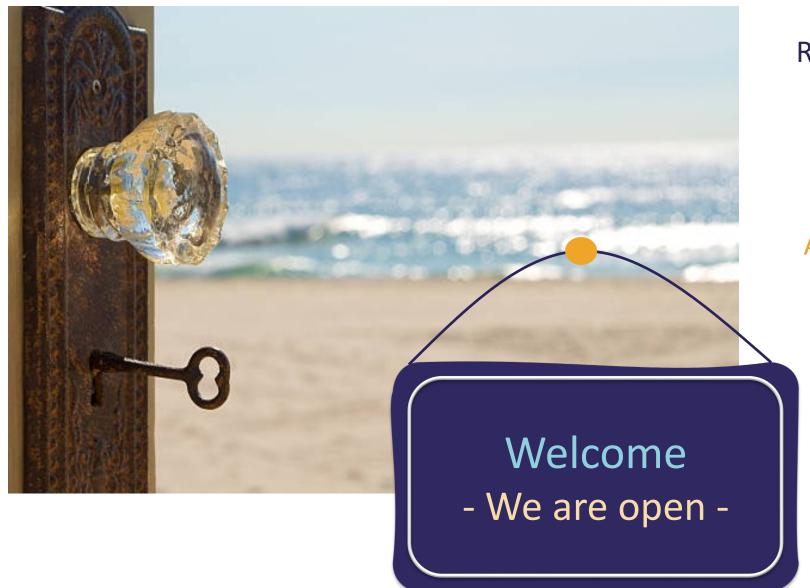


Implementation of Service desk for study requests

Add other data sources in OMOP CDM



WELCOME – WE ARE OPEN



Register your account today at

Portal.EHDEN.eu

And start exploring high quality real world data from > 100 M patients from 15 European countries