The European Health Data and Evidence Network portal
- a one-stop shop in EHDEN

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• What is EHDEN?

• EHDEN Portal predecessor – EMIF Platform

• EHDEN Portal components

• Demo
**Mission**

Develop a federated network, standardized to a common data model that more smartly manages and shares research methodologies, and expands education in open science and collaboration.

**Vision**

The European Health Data & Evidence Network (EHDEN) aspires to be the trusted observational research ecosystem to enable better health decisions, outcomes and care.

**Values**

- Community
- Education
- Sustainability
- Open science
- Quality
- Inclusiveness
OBJECTIVES

Harmonization
Harmonize in excess of 100 million anonymised 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, regulators, payers, government, NGOs and others
Main developers of many of the OHDSI tools are EHDEN partners.

Collaborators

Findable

Accessible

Interoperable

Reusable

Database Catalogue

ATLAS

OMOP CDM

Remote research environment

ATLAS
Main developers of many of the OHDSI tools are EHDEN partners.
**EMIF-Metabolic**
Identify predictions of metabolic complications in obesity

**EMIF-AD**
Identify predictions of Alzheimer’s disease in the pre-clinical and prodromal phase

**EMIF-Platform**
A framework for evaluating, enhancing and providing access to human health data across Europe - support research using human data in general.

- [www.emif.eu](http://www.emif.eu)
- 14 European countries
- 58 partners
- €56 million worth of resources
- 3 projects in one
- 5 year project (2013 – 2017)
EMIF Platform

- **Discover**
  - Catalogue (Fingerprinting)
  - Dashboards (Predefined aggregated Statistics)
  - Real-time query (using a CDM)

- **Assess**
  - Communities and some Dashboard for global characteristics
  - Achilles, Jerboa "deeper" dashboards
  - CDM, Achilles, HERMES...

- **Access**
  - Workflow management (Specific and custom studies)

- **(Re)use**
  - PRRE
EMIF PLATFORM

- **www.emif-catalogue.eu**
- 9 communities
- 825 users
- 490 databases
- data from more than 40 million subjects from 6 EU countries
- 60,000 subjects in AD cohorts
- 94,000 subjects in metabolic cohorts
MONTRA ARCHITECTURE

• MONTRA\(^1\) was planned as a Rapid Application Development system - to allow fast deployment for a specific use case.

• Thinking of a data skeleton as a questionnaire, we have implemented a schema that contains questions and answers about one or more data entities.

• Within the data catalogue created with a given schema CRUD operations are automatically available for registered users.

• It supports third-party components and allows users, with adequate permissions, to extend its functionalities without having to deal with its base code (plugins).

Welcome to the EHDEN Portal
### DATABASE CATALOGUE

**EHDEN PORTAL**

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Name</th>
<th>Institution name</th>
<th>Department name</th>
<th>Last update</th>
<th>Select</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEMO</td>
<td>Database for DEMO purposes</td>
<td>UAVR</td>
<td>DETI</td>
<td>2019-10-04</td>
<td></td>
</tr>
<tr>
<td>IPCI</td>
<td>Integrated Primary Care Information</td>
<td>Erasmus MC</td>
<td>Medical Informatics</td>
<td>2019-10-02</td>
<td></td>
</tr>
</tbody>
</table>
# DATABASE CATALOGUE

<table>
<thead>
<tr>
<th>Text/Question</th>
<th>Data type</th>
<th>Value list</th>
<th>Help text/Description</th>
<th>Include in Advanced Search</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Database General Information</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acronym</td>
<td>open-button</td>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>Name</td>
<td>open</td>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>Institution Name</td>
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<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>In the last 3 years, the main financial support has been obtained through</td>
<td>choice-multiple-freeform</td>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Database population</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location</td>
<td>location</td>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>Population Size (N)</td>
<td>numeric</td>
<td></td>
<td></td>
<td>Yes</td>
</tr>
</tbody>
</table>

- **1.01. Acronym**: IEETADemo
- **1.02. Name**: IEETA Demo
- **1.03. Institution name**: Instituto de Engenharia Electrónica e Informática de Aveiro

- **1.11. In the last 3 years, the main financial support has been obtained through**:
  - Funding by Own Institution
  - National/Regional/Municipal Public Funding
  - European Public Funding
  - Funding From Industry / Contract Research
  - Funding From Public/ Private Partnership
  - Funds From Patients Organisations, Charity and Foundations
  - Other, Please Specify

- **1.12. Database population**
  - **1.12.01. Location**
    - Introduce the cities, part of the country, or country from the subjects of cohort: Aveiro, Distrito de Aveiro, Portugal
  - **1.12.02. Population Size**
    - Introduce the total involved subjects in your cohort: 1000000
# DATABASE CATALOGUE - API

**EHDEN Portal**

**Acronym** | **Name** | **Institution name** | **Department name** | **Last update** | **Select**
---|---|---|---|---|---
Filter | Filter | Filter | Filter | Filter | Filter
**DEMO** | Database for DEMO purposes | UAVR | DETI | 2019-10-04 | 
**IPC1** | Integrated Primary Care Information | Erasmus MC | Medical Informatics | 2019-10-02 | 

**API INFORMATION**

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**EHDEN** / All

Search

Custom view

Dashboard

New Entry

Show | 5 | items per page
# DATABASE GENERAL INFORMATION

Provide general information about a database, such as the name, acronym, institution details and main responsible.

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.01</td>
<td>Acronym</td>
</tr>
<tr>
<td>DEMO</td>
<td></td>
</tr>
<tr>
<td>1.02</td>
<td>Name</td>
</tr>
<tr>
<td>Database for DEMO what data capture processes are used</td>
<td></td>
</tr>
<tr>
<td>1.03</td>
<td>Institution name</td>
</tr>
<tr>
<td>UAVR</td>
<td></td>
</tr>
<tr>
<td>1.04</td>
<td>Department name</td>
</tr>
<tr>
<td>DEti</td>
<td></td>
</tr>
<tr>
<td>1.05</td>
<td>URL of the database website (if available)</td>
</tr>
<tr>
<td>1.06</td>
<td>Unit centre website (if available)</td>
</tr>
</tbody>
</table>
DATABASE CATALOGUE – BOOLEAN AND FREE SEARCH

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