The Health Information Portal: a one-stop shop for health information

Miriam Saso, Sciensano
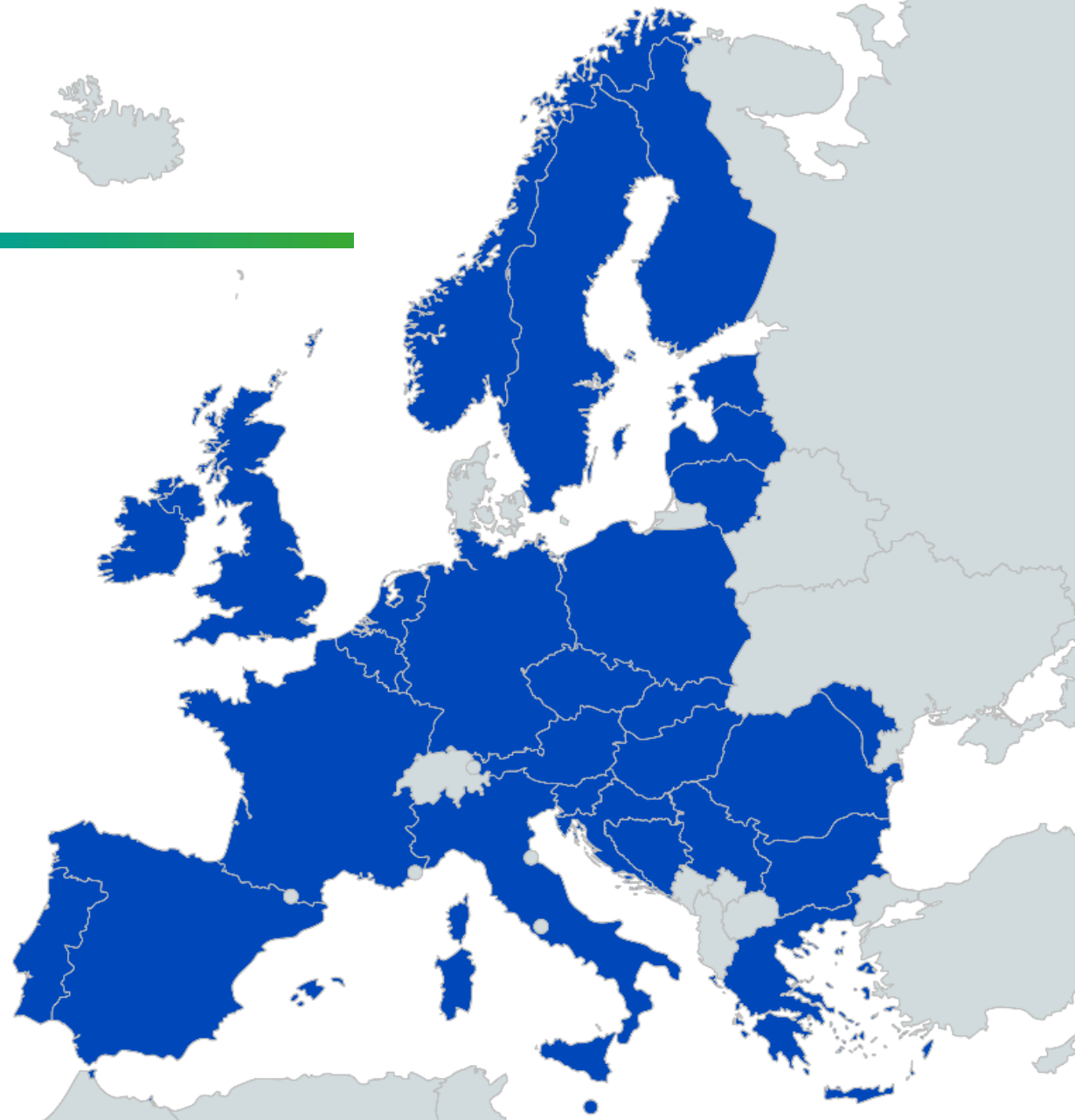
European Public Health Conference, Dublin

PHIRI

The Population Health Information Research Infrastructure:

- a **European mechanism**, that aims to

- facilitate and support **data-driven population health research**

- and **exchange of best practices**
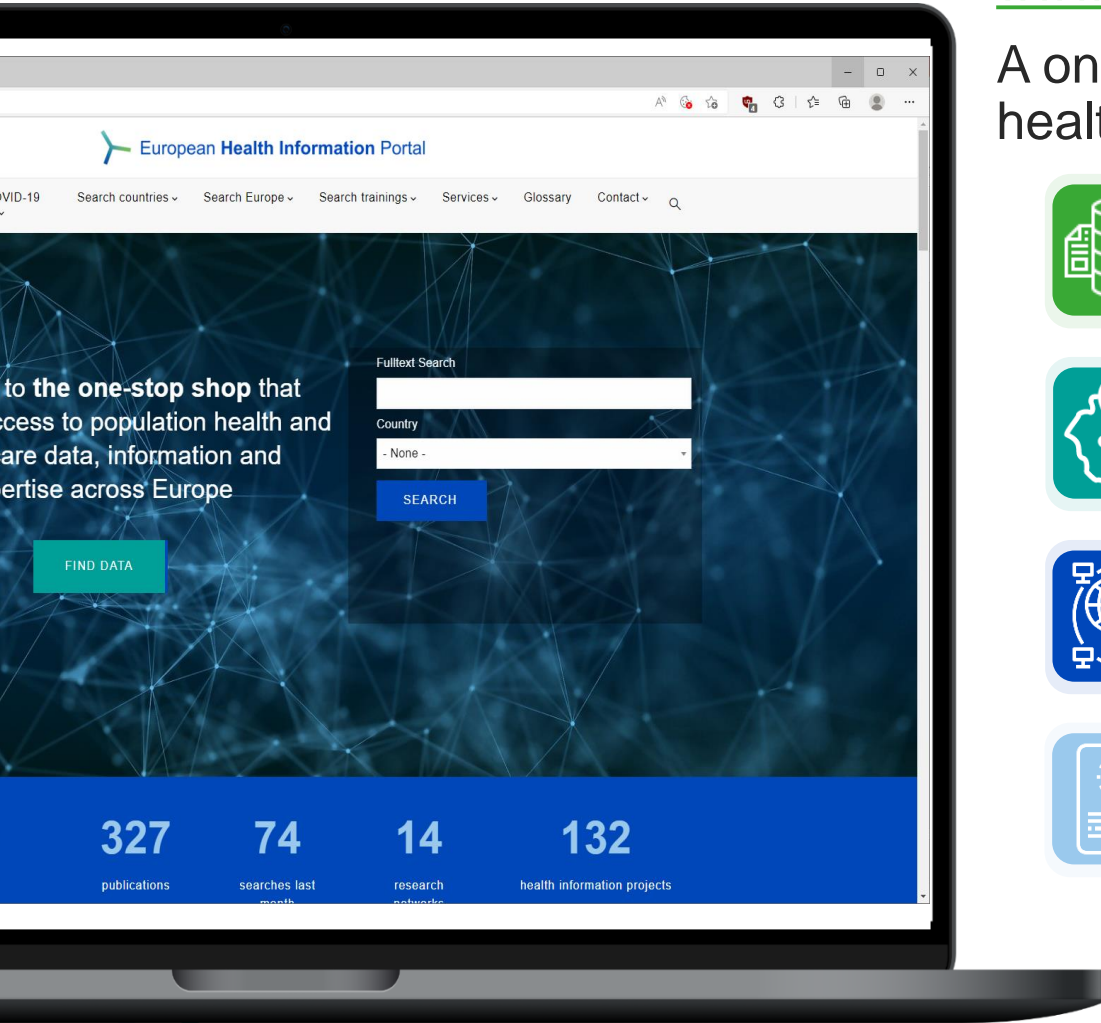
- to support **decision making**

Map of PHIRI Partners

The Health Information Portal

www.healthinformationportal.eu

A one-stop shop that facilitates access to population health and health care data, information and expertise across Europe.

Data sources

Publications

Countries and national nodes

Trainings in all areas of population health

Research infrastructures, Research networks

COVID-19 Policy measures

Health information projects

COVID-19 Rapid Exchange Forum

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101018317

Data sources metadata catalogue

It provides structured information on
- Population registries
- Health survey data
- Surveillance data
- Hospitalizations (in- and out-patient)
- Healthcare resources, costs and activities
- Etc.

The metadata template is mapped to **_Schema.org and to DCAT metadata standards_**, further increasing the findability of the data on the web

Sources on the Health Information Portal

Metadata of a data source

HOME - HEALTH INTERVIEW SURVEY

HEALTH INTERVIEW SURVEY

- Type of Information
- URL of the data source
- Description
- Governance & legal framework
- Keywords & topics

OVERVIEW DEMOGRAPHICS DATASET CONTACT

Acronym	HIS
Type of information	Survey/interview data

URL of the data source

https://www.sciensano.be/en/projects/health-interview-survey

Description

A national Health Interview Survey (HIS) provides an overall picture of the health status of the population and allows to identify the main health problems, as well as the social and behavioral factors that influence them. This information enables health authorities to pursue a proactive health policy aimed at improving public health and addressing the needs of groups at risk. Researchers, experts and the press use the results of the HIS

Metadata of a data source

HOME - HEALTH INTERVIEW SURVEY

HEALTH INTERVIEW SURVEY

- Countries
- Geo coverage
- Population
- Sex

| OVERVIEW | DEMOGRAPHICS | DATASET | CONTACT |

Country(ies)	Belgium
GEO coverage	Nuts 1
Target Population	General population
Sex	Both

Metadata of a data source

HOME - HEALTH INTERVIEW SURVEY

HEALTH INTERVIEW SURVEY

- Data collection period
- Languages
- Personal identifier
- Level of aggregation
- Data access

OVERVIEW   DEMOGRAPHICS   **DATASET**   CONTACT

Data Collection Period

Language(s)   Dutch, English, French

Personal Identifier   Participant number

Level of aggregation   Individual

Terms of data access - URL   https://www.sciensano.be/en/node/55737/health-interview-survey-microdata-request-procedure

Terms of data access

The procedure for obtaining the HIS data is initially done by completing the electronic application form.

Metadata of a data source

HOME - HEALTH INTERVIEW SURVEY

HEALTH INTERVIEW SURVEY

- Data Owner
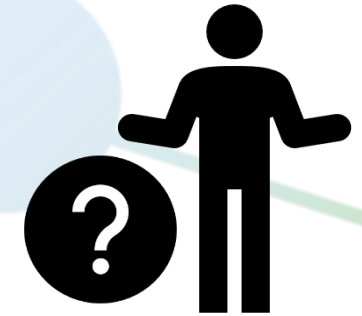- Contact details

| OVERVIEW | DEMOGRAPHICS | DATASET | CONTACT |

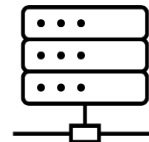|	
Data Owner(s)	Sciensano
Contact name	HIS team Sciensano
Contact e-mail	his@sciensano.be

Contact info (address)

Sciensano
Rue Juliette Wytsmanstraat 14
1050 Brussels
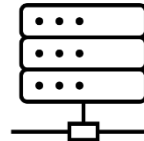Belgium

Supporting data-driven research

For my research I need data on prevalence of NCD's in European countries. Where to find it?
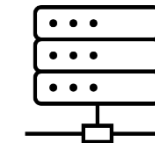
Through my networks and internet search I was able to identify the following potential data sources
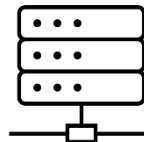
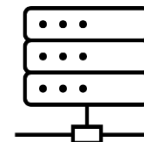**Data without metadata**

Hospital Discharge Data, NL

Social Health Insurance Data, AT

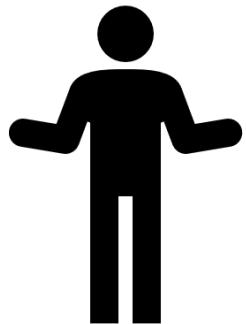Care Register for Health Care, FI

Primary Health Care Database, HR

Morbidity data, RO

- What type of data are these?
- What age groups do they cover?
- Who owns these data?
- How do I get access to these data sources?

Why metadata?

For my research I need data on prevalence of NCD's in European countries. Where to find it?

Through the Health Information Portal I was able to identify the following potential data sources

Data with metadata

Hospital Discharge Data, NL

Social Health Insurance Data, AT

Care Register for Health Care, FI
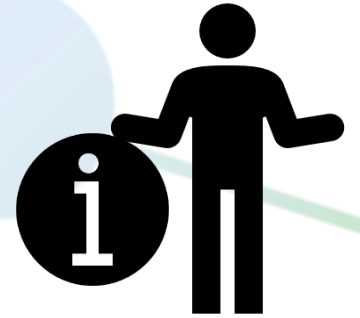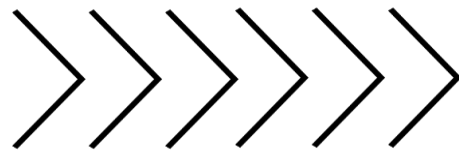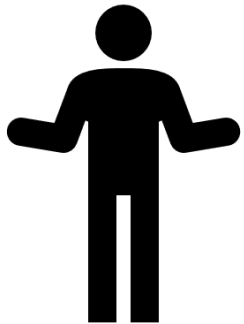
Primary Health Care Database, HR

Morbidity data, RO
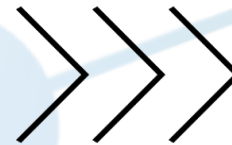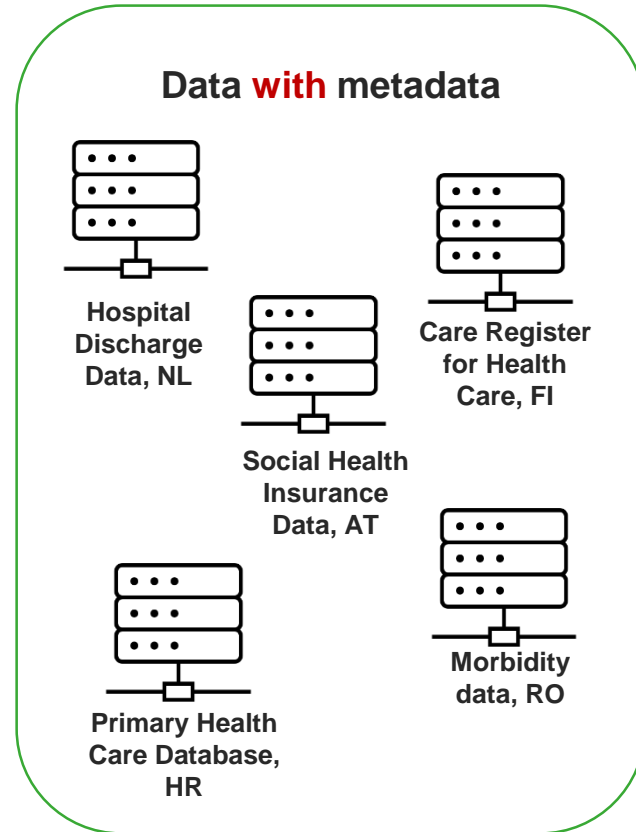
In structured format

- Data on hospitalizations
- Covers all 18+
- National coverage
- Contact details for access requests

Metadata on the Health Information Portal

Development process of the metadata elements:

1) Metadata elements developed by population health researchers

- In order to accomodate all metadata relevant for population health information

2) Mapping to schema.org

- Schema.org is a metadata standard for the indexation of web pages

  - Improves machine to machine communication

  - Increases discoverability

Effects of Schema.org

The Health Information Portal - Google search analytics:

- Clicks: number of times a user clicked on a link provided by Google to the HIP.
- Impressions: how often someone saw a link of the HIP on Google.
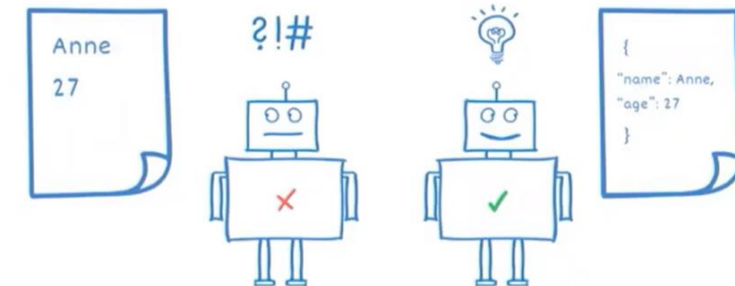
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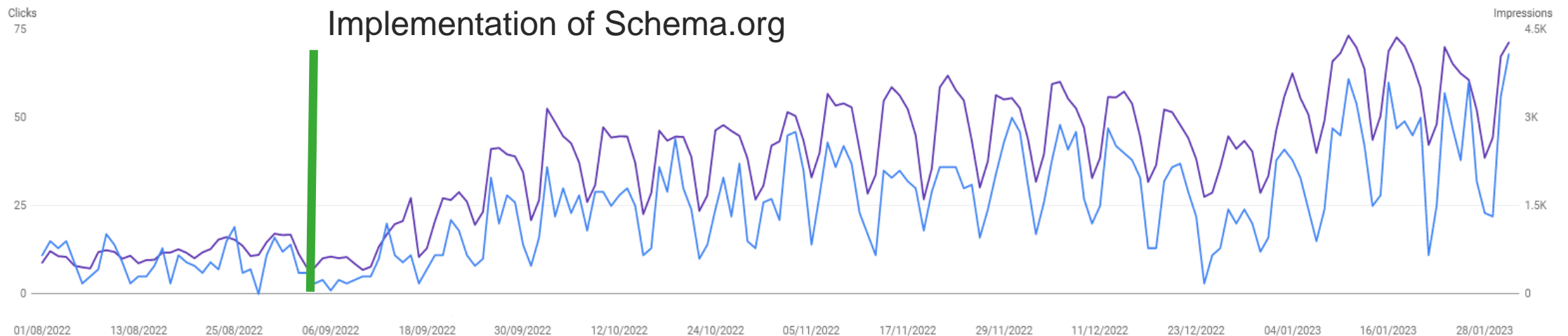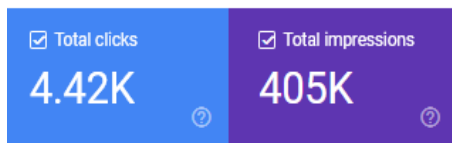
2) Mapping to schema.org
   - Schema.org is a metadata standard for the indexation of web pages

3) Mapping to DCAT
   - DCAT is a vocabulary for publishing data catalogs on the web
     - Facilitates sharing of data & interoperability between data catalogs
     - Increases the discoverability of datasets
     - Allows federated search for datasets across catalogs in multiple sites

Metadata in the European landscape

Proposal for a regulation - The European Health Data Space published on May 3rd by the European Commission.

Section 5 – Article 55.1

*"The health data access bodies shall inform the data users about the available datasets and their characteristics through a **metadata catalogue**. Each dataset shall include information concerning the source, the scope, the main characteristics, nature of electronic health data and conditions for making electronic health data available"*

→The Health Information Portal has these metadata available in a standardized format

→The Health Information Portal can provide a starting point for the national authorities to create a catalogue

→Through an API these metadata are available for everyone

Thank you!

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