

# European Health Statistics - An overview of key data sources and indicators

EAPS Health, Morbidity and Mortality Working Group (HMMWG) annual meeting  
10-12 September 2025, Belval-Esch (Luxembourg)

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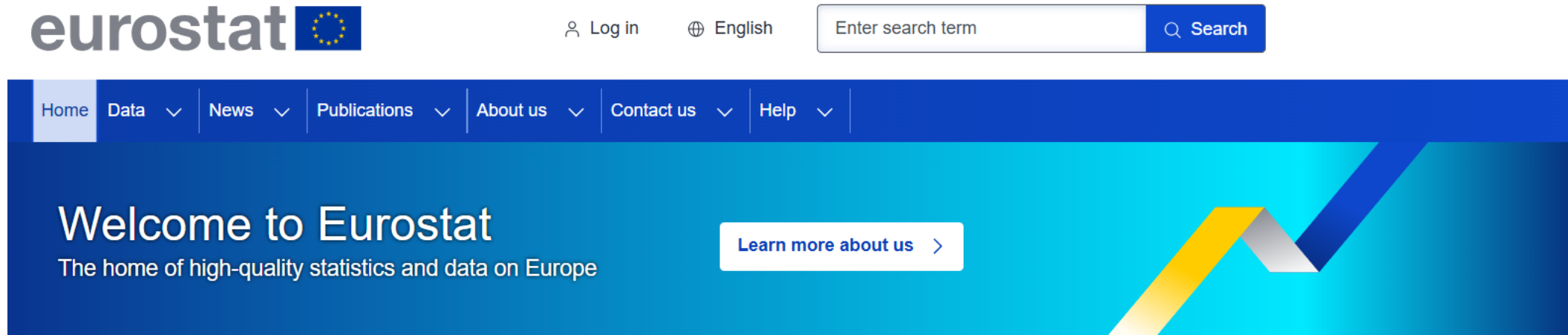
# Overview of the presentation

- ❖ Eurostat
  - ❖ Who we are
  - ❖ How to find our information
- ❖ Social statistics in Eurostat with a focus on health
  - ❖ Indicator sets and policy uses (examples)
  - ❖ Recent indicators/coming indicators
- ❖ European Health Data Space

Underlined text in my presentation are weblinks



# Eurostat Who we are





EU key indicators

























# Finding information

## Database


 Information on the database




 Data navigation tree

 Detailed datasets

-  General and regional statistics
-  Economy and finance
-  Population and social conditions
  -  Population and housing censuses (cens)
  -  Demography, population stock and balance (demo)
  -  Population projections (proj)
  -  Migration (migr)
  -  Health (hlth)
  -  Disability (dsb)
  -  Education and training (educ)
  -  Labour market (labour)
  -  Living conditions and welfare (livcon)
  -  Income, consumption and wealth - experimental statistics (icw) 
  -  Social protection (spr)  [\(Information note\)](#)
  -  Culture (cult)
  -  Sport (sprt)
  -  Crime and criminal justice (crim) 
-  Industry, trade and services

## Microdata requests

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MICRODATA

### Overview

Overview
Access
Adult education survey
Community innovation survey
Continuing vocational training survey
European Community household panel
European health interview survey
European road freight transport survey
EU labour force survey
EU survey on gender-based violence
EU statistics on income and living conditions

### What are microdata?

Microdata are sets of records containing information on individuals, households or businesses. We use them in official statistics to produce aggregate information, usually in table format.

### Can everyone access microdata?

Access to confidential microdata is restricted to protect the anonymity of individuals or businesses. We grant access to our microdata **for scientific purposes only**.


To apply for access, we first need to recognise your organisation as a research entity. Examples include universities, research institutes or research departments in a public administration, banks, statistical institutes, etc.




### How do I apply for access?

Step 1: Have your research organisation recognised as a research entity. This just needs to be done once and the procedure takes around 4 weeks.



# Eurostat user support in all EU languages

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## User support

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# Statistics Explained

## Statistics Explained

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## Health

Health articles

Statistical articles ▾

Online publications ▾

Methodology ▾

Glossary

This page provides a clickable overview of all articles in [Statistics Explained](#) on [health](#) (click triangles to expand/hide the lists); or see them [in alphabetical order](#).

### Statistical articles

Accidents at work ▾

Disability ▾

Health care ▾

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[Main](#) > [Statistical themes](#) > [Population and social conditions](#) > [Health](#) > [Cancer screening statistics](#)

Data extracted in July 2025. | Planned article update: August 2026.

## Cancer screening statistics

Contents

Highlights

Breast cancer screening

Cervical cancer screening

Colorectal cancer screening

Source data for tables and graphs

Data sources

Context

Explore further

### Highlights

In 2023, at least 80% of women eligible for breast cancer screening had been screened for breast cancer in Denmark, Sweden and Finland, within recent years.

In 2023, around three quarters of eligible women in Sweden, Czechia, Slovenia, and Ireland had been screened for cervical cancer within recent years.

In 2023, over 60% of people eligible for colorectal cancer screening in Finland (provisional), the Netherlands, Sweden, Slovenia and Estonia had been screened for colorectal cancer within the previous 2 years.

#### Breast cancer screening, women aged 50–69 years, 2023

Country	Percentage (%)
Denmark	80
Sweden	80
Finland	80
Ireland	85
Netherlands	85
Other countries	60-75



# News articles



NEWS ARTICLES | 5 August 2025

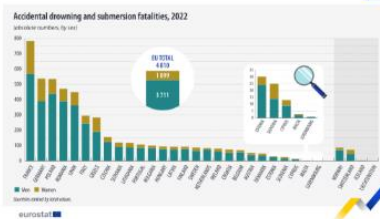
## Deaths by drowning in the EU down by 4% in 2022



With summer in full swing, beaches and pools are bustling with activity; however, they also carry a heightened risk of drowning incidents.

In 2022, there were 4 810 deaths by drowning and submersion in the EU, 194 fewer than in 2021 (5 004), indicating a 3.9% decrease. The share of drownings and submersion fatalities out of all accidental deaths also decreased slightly from 3.1% in 2021 to 2.6% in 2022, making this the lowest share since the data collection started in 2011, when drownings and submersion fatalities represented 4.2% of all accidental deaths.

Among EU countries, in 2022, the highest number of drowning and submersion deaths was reported in France (784), which accounts for 16.3% of all drowning fatalities in the EU, followed by Germany (542), Poland (535), Romania (472) and Spain (449). The lowest numbers in the EU were recorded in Luxembourg (1), Malta (3), Cyprus (13) and Slovenia (25).



Source dataset: hsh\_cd\_aro

As in previous years, drowning deaths were more common among men than women. In 2022, this was the case in all EU countries. However, in Slovenia (14 men, 11 women), the difference was less substantial than in other EU countries. In Luxembourg, the only victim was male.

For more information

Eurostat

## Luxembourg records EU's lowest number of drowning deaths

RTL Today | Update: 06.08.2025 03:07



Luxembourg recorded the fewest drowning deaths in the European Union in 2022, with just one fatality, according to the latest available data.

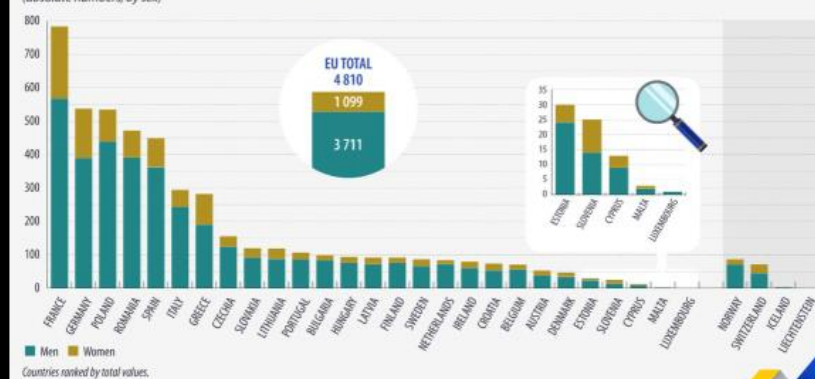
The figures, published as Europe moves through the height of summer, show an overall decline in drowning and submersion deaths across the EU.

According to data released on Wednesday, 5 August, on [Eurostat's website](#), a total of 4,810 people died by drowning in 2022, down from 5,004 in the previous year – a 3.9% drop. This also marks the lowest proportion of accidental deaths by drowning since records began in 2011.

France reported the highest number of drowning fatalities, with 784 deaths (16.3% of the EU total), followed by Germany (542), Poland (535), Romania (472) and Spain (449). Luxembourg recorded just one death by drowning, making it the country with the fewest fatalities, and was followed by Malta (3), Cyprus (13) and Slovenia (25).

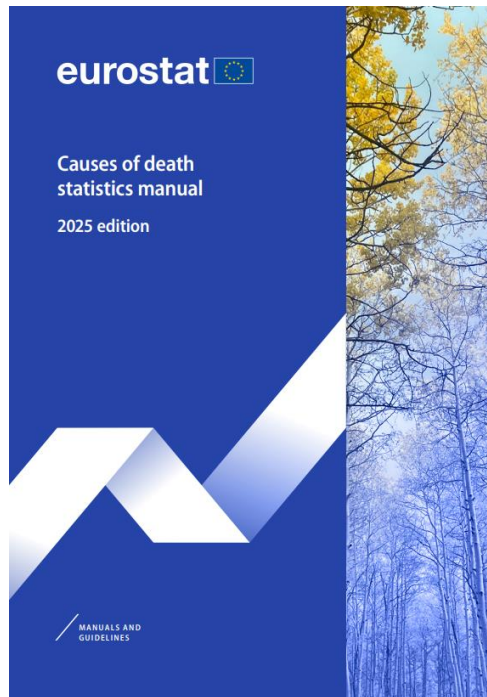
### Accidental drowning and submersion fatalities, 2022

(absolute numbers, by sex)





# Manuals and guidelines





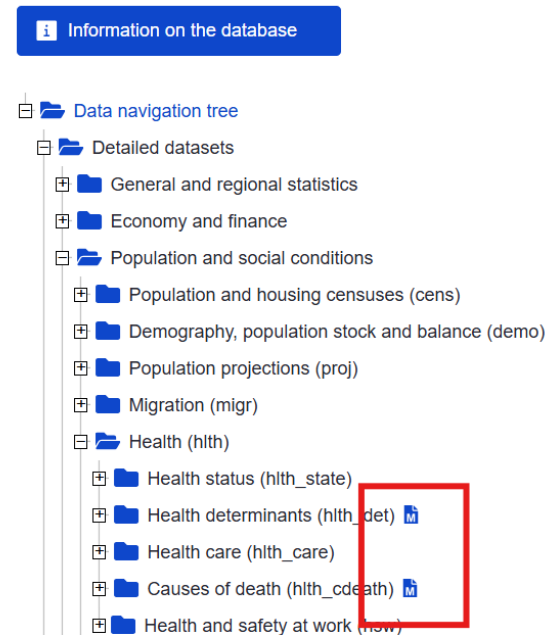
# Importance of metadata

Annual national reference metadata

- Describing the statistical concepts and the methodologies
- Providing information on data quality
- Help to interpret the data

Quality reports (quality indicators) each 5 years

## Database



Reference metadata

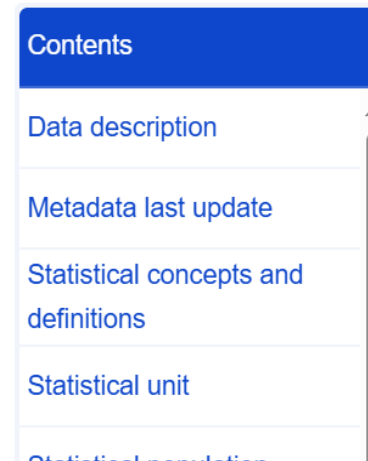
## Accidents at work (ESAW, 2008 on) (hsw\_acc\_work)

Reference Metadata in Euro SDMX Metadata Structure (ESMS)

Compiling agency: Eurostat, the statistical office of the European Union

Need help? Contact the [Eurostat user support](#)

Short metadata ☒ Full metadata



## Data description

Harmonised data on accidents at work (ESAW) is available in the 'European Statistics on Accidents at Work' (ESA) version available. [European Statistics on Accidents at Work](#)

An accident at work is defined as 'a direct or indirect non-fatal or fatal harm to a person arising out of or in the course of work'. If the accident does not lead to a fatal or non-fatal harm, the data include only fatal and non-fatal accidents.





# Social statistics in Eurostat

Demography and Migration;

Labour market;

Living conditions and Quality of Life;

Crime;

Education;

Health;

Social protection.

# Available data cover a number of topics...

- Public health
  - Health status: self-reported health and morbidity, functional and activity limitations, injuries;
  - Health determinants: overweight and obesity, physical activity, risky behaviours such as tobacco and alcohol consumption;
  - Health care: health care expenditure, resources (staff and facilities) and activities (hospital and ambulatory services);
  - Causes of death: national and regional mortality by causes of death.
- Health and safety at work
  - Accidents at work: number of accidents, causes and circumstances of accidents.
  - Occupational diseases



# Main aspects of health-related data collections

- **Administrative data collections**
  - Register based
  - Usually annual
  - Cover whole population (usually based on residence status)
  - Quite rigid to changes
- **Survey based data collections**
  - Self-reported
  - Frequency depending on a survey
  - Defined sample population
  - Changes possible, however with an effect on time series



# Statistical collection by source

## Surveys

European Health Interview Survey  
European Union Statistics on Income and  
Living Conditions  
European Union Labour Force Survey

## Administrative data

Causes of death  
Healthcare non-expenditure  
Healthcare expenditure  
Accidents at work  
-----  
Occupational diseases  
Morbidity



# Administrative data collections

- These are annual data collections
- Administrative (register) data and surveys complementary in these data domains
- Registers not set up for creating statistics - comparability of data across 27 EU Member States is limited by the fact that national data is subject to the way in which information is available
- User must refer to national reference metadata and quality reports
- Clear advantages of administrative data but not error free
- Annual improvements are made



# Health – data sources



Healthcare expenditure – data from national health accounts registries, comprising data from different statistical sources

Examples of administrative sources:

- annual accounts of central, provincial or local governments or of social insurance funds, financial reports of government funds, public corporations or insurance associations.



Healthcare non-expenditure – data sources are very much country-specific

Examples of administrative sources:

- registries of licenses of healthcare personnel or their associations, health insurance funds, hospital reports, business registers, research or surveillance data;



Accidents at work – declarations of accidents at work (fatal or absence from work of more than 3 days) and Occupational diseases – recognised occupational diseases

Examples of administrative sources:

- accident insurance of the national social security system, private work-related insurances, labour inspection, health and safety authority.



# Health – improvement potential

- Comparability (geographical or over time, when data sources change)
- Accessing data from the private sector to complement public sector data
- The available data may not have the desired granularity or follow common definitions
- Timeliness
- Reference periods



# Important classification change: ICD-11

Adopted 2019

In effect 2022

Maps ICD-10 ↔ ICD-11

Special tabulation lists Mortality List and Morbidity List

Will affect statistics on Causes of Death and Hospital Discharges Data, later on also Occupational diseases statistics.

Eurostat Task Force ICD – working on European Shortlist of Causes of death



# Indicator sets and policy uses

Not exhaustive!



# EU Sustainable Development Goals indicators



Indicator	Period	Annual growth rate	Assessment	More info
<b>Healthy lives</b>				
Healthy life years at birth	Long-term assessment not possible due to several breaks in time series		✗	page 66
	2016–2021 (*)	– 0.1 %	→	
People with good or very good self-perceived health	2010–2023	0.1 %	→	page 67
	2018–2023	– 0.2 %	↘	
<b>Health determinants</b>				
Smoking prevalence	2009–2023	– 1.3 %	↑	page 68
	2017–2023	– 1.9 %	↑	
Obesity rate (*)	Time series too short for long-term assessment		✗	SDG 2, page 47
	2017–2022	– 0.1 %	→	
Population living in households suffering from noise (*)	2010–2023	– 0.9 %	↗	SDG 11, page 205
	2018–2023	0.0 %	→	
<b>Causes of death</b>				
Standardised avoidable mortality	2011–2022	– 0.8 %	↗	page 69
	2017–2022	0.5 %	↘	
Fatal accidents at work (*)	2010–2022	– 2.7 %	↑	SDG 8, page 154
	2017–2022	– 1.5 %	↑	
Road traffic deaths (*) Ⓢ	2008–2023	Observed: – 3.9 % Required: – 5.2 %	↗	SDG 11, page 207
	2018–2023	Observed: – 2.7 % Required: – 5.8 %	↘	
Premature deaths due to exposure to fine particulate matter (PM <sub>2.5</sub> ) (*) Ⓢ	2007–2022	Observed: – 2.5 % Required: – 2.5 %	↑	SDG 11, page 206
	2017–2022	Observed: – 4.7 % Required: – 3.4 %	↑	

Peace, justice and strong institutions

## Indicators measuring progress towards SDG 16, EU

Indicator	Period	Annual growth rate	Assessment
<b>Peace and personal security</b>			
Standardised death rate due to homicide	2007–2022	– 3.3 %	↑
	2017–2022	– 0.6 %	↗
Population reporting crime, violence or vandalism in their area	2010–2023	– 2.1 %	↑
	2018–2023	– 2.8 %	↑
Victims of trafficking in human beings	2008–2023	2.6 %	↓
	2018–2023	8.6 %	↓
<b>Access to justice</b>			
General government total expenditure on law courts	2008–2023	2.9 %	↑



# European Core Health Indicators

Heading	Examples
Demographic and socio-economic situation	Population, birth rate, total unemployment
Health status	Infant mortality, HIV/AIDS, road traffic injuries
Health determinants	Regular smokers, consumption/availability of fruit
Health interventions: health services	Vaccination of children, hospital beds, health expenditure
Health interventions: health promotion	Policies on healthy nutrition

# European Semester, country reports (spring package)

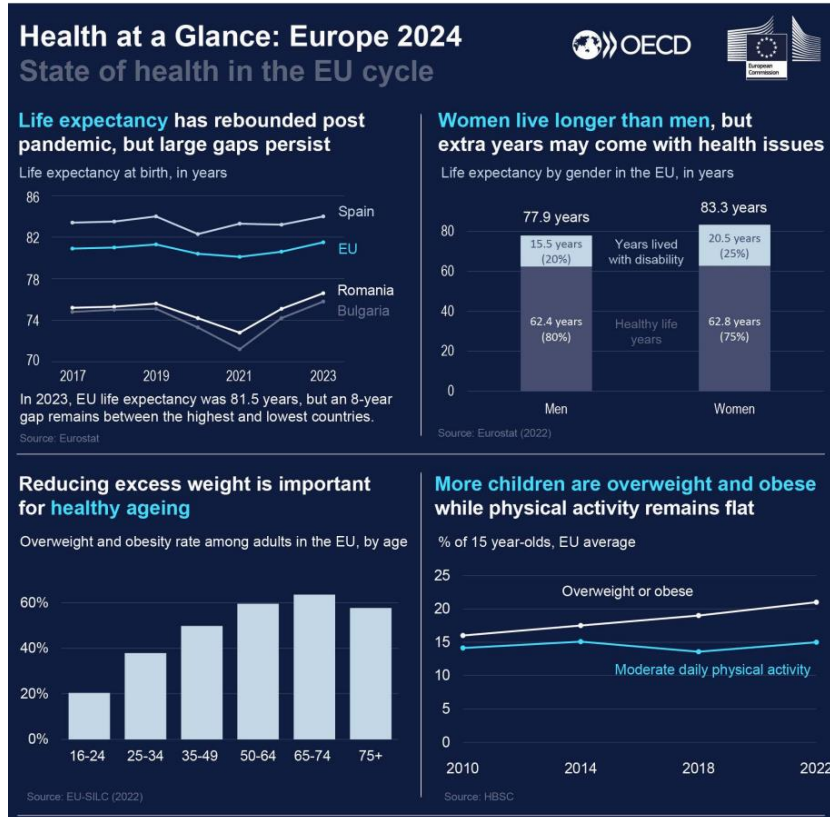
Table A14.1: **Key health indicators**

	2019	2020	2021	2022	2023	EU average* (latest year)
Cancer mortality per 100 000 population	229.6	230.5	224.7	226.1	n.a.	234.7 (2022)
Mortality due to circulatory diseases per 100 000 population	362.9	361.0	343.3	346.6	n.a.	336.4 (2022)
Current expenditure on health, purchasing power standards, per capita	3 966	4 066	4 737	4 751	n.a.	3 684.6 (2022)
Public share of health expenditure, % of current health expenditure	75.1	76.9	78.2	77.6	77.2	81.3 (2022)
Spending on prevention, % of current health expenditure	2.1	3.2	10.4	7.4	n.a.	5.5 (2022)
Available hospital beds per 100 000 population**	650	636	620	600	n.a.	444 (2022)
Doctors per 1 000 population*	5.3	5.3	5.4	5.4	n.a.	4.2 (2022)*
Nurses per 1 000 population*	10.3	10.3	10.7	10.7	n.a.	7.6 (2022)*
Mortality at working age (20-64 years), % of total mortality	14.1	13.4	14.1	13.6	13.7	14.3 (2023)
Number of patents (pharma / biotech / medical technology)	137	126	95	80	96	29 (2023)***
Total consumption of antibacterials for systemic use, daily defined dose per 1 000 inhabitants****	11.6	8.8	8.8	10.5	11.3	20.0 (2023)

\*The EU average is weighted for all indicators except for doctors and nurses per 1 000 population for which the EU



# State of health in the EU



- Health at a Glance
- Country health profiles



# Indicators recently added

## **Examples of indicators disseminated 1st time in 2025:**

Recognised occupational diseases by occupation (ISCO) or by economic sector (NACE)

Available beds in intensive care unit (ICU)

Consultation of a medical doctor by type of consultation (teleconsultations)

## **Coming in the next years:**

Potential years of life lost by treatable and preventable diseases

Hospital discharges by diagnosis, by residency

Indicators related to mental health and wellbeing (EHIS 2025, tentative EU-SILC 2027)

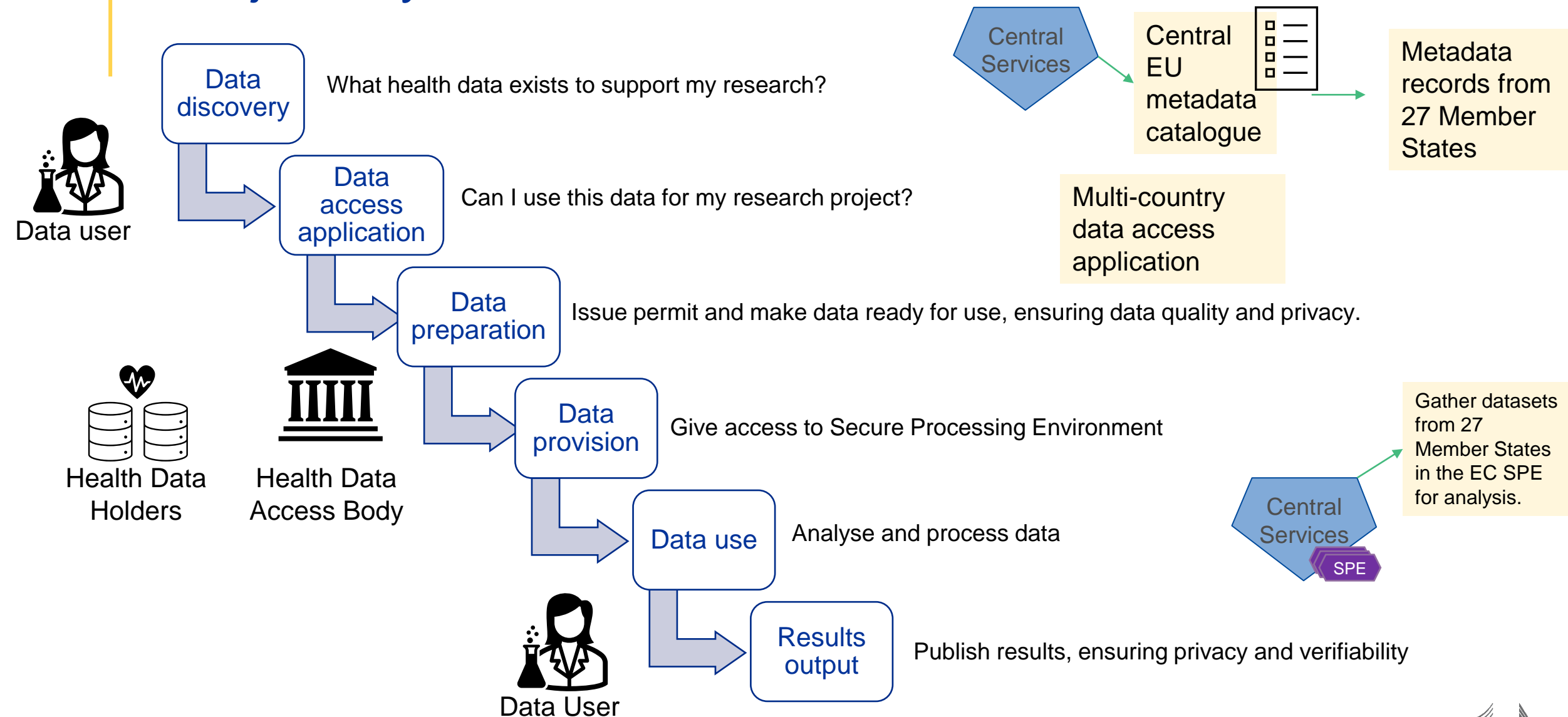


# Coming: European Health Data Space

- Secondary use of health data = use of health data for a different purpose than what they were initially collected for. Makes data available for research, innovation, policy-making etc.
- [EHDS regulation](#) adopted in March 2025, 'secondary use' applies from 2029.
- Research institutions, public health institutes, statistical offices etc can be both 'Data holders' and 'Data users'.
- Preparation ongoing in [Second Joint Action Towards the European Health Data Space – TEHDAS2 - Tehdas](#)



# User journey of a researcher



# Involvement and advantages

## Data holder

- Health-related data collected: e.g. health status and outcomes, health systems and services, health determinants, mental health statistics, etc.
- Electronic health data include data that have been initially collected for research or statistical purposes. Including aggregated, open and fully anonymised data.
- Provide a metadata record describing the datasets held by ESTAT to the UDAS metadata catalogue (Health DCAT-AP compliant)
- Provide data mentioned in the permit administered to the user by the Union Data Access Service (Union HDAB).

## Data user

- Find available health related datasets from across-Europe.
- Request access to these datasets either through the EU Central platform or through a specific national HDAB.
- Access and analysis of the health data in Secure Processing Environments if they are in a pseudonymised format.



# Thank you



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