




EUROPEAN HUMAN BIOMONITORING INITIATIVE (HBM4EU) INDICATOR LEAFLETS

HUMAN BIOMONITORING DATASETS IN IPCHEM

Indicator 5.1 Number of human biomonitoring datasets available through IPCHEM

 **SPECIFIC GOAL 5:** Including new HBM data and, where possible, existing HBM data in the European Commission's Information Platform for Chemical Monitoring (IPCHEM)

 **RESPONSIBLE:** Flemish Institute for Technological Research (VITO), Belgium  **WORK PACKAGE:** 10 (VITO)

KEY MESSAGES

- Existing HBM data are increasingly becoming available through the HBM4EU repository and IPCHEM (the Information Platform for Chemical Monitoring).
- Currently, **153 metadata**, **65 aggregated data** sets and **3 individual data** sets **accessible via IPCHEM**.
- IPCHEM makes Human Biomonitoring (HBM) data **findable** and **accessible**, stimulating the use of HBM data in European policy processes.
- IPCHEM makes HBM data **as openly accessible as possible**, while respecting GDPR.
- HBM4EU makes an effort to **harmonize European HBM data**. This harmonization allows to:
 - Integrate standardised descriptive statistics in IPCHEM that are comparable across data collections
 - Enhance pooling of single measurement data across data collections
- 65 aggregated datasets** in IPCHEM are in **harmonized format** and originate from 15 countries.

WHY



Collect new and existing HBM data and **make this data accessible** via **IPCHEM** (the central access point for chemical monitoring data in Europe)

IPCHEM portal site can be used to make **Anonymous data** available. Access to this data is regulated on **user group level**:

1. General public
2. HBM4EU consortium
3. EU national bodies & agencies
4. EU member states

HBM4EU Repository, a secured and restricted part of IPCHEM developed for the HBM4EU project, can be used to make **Non-Anonymous data** available.

Access to the data is regulated on individual level using EU login authentication



RESULTS



HBM metadata: general information about study incl. chemicals measured, description of study population, study design.

153



HBM aggregated data sets: descriptive statistics incl. mean, percentiles, ...

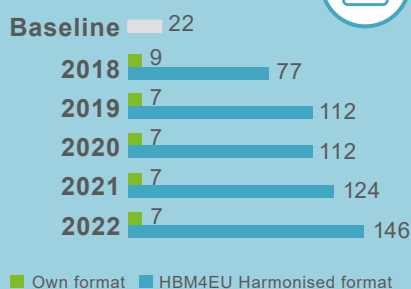
65



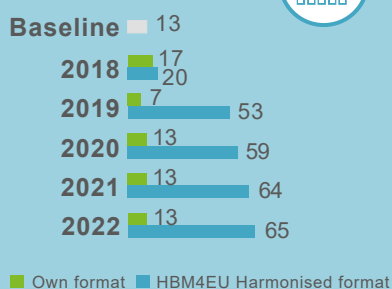
HBM single measurement data sets: individual biomarker data and accompanying individual information

3

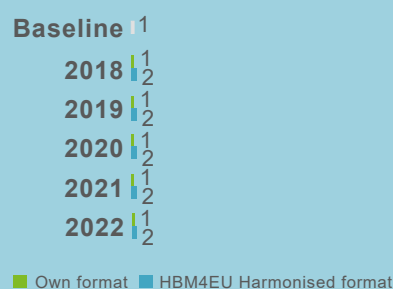
METADATA



AGGREGATED DATA



SINGLE MEASUREMENT DATA*

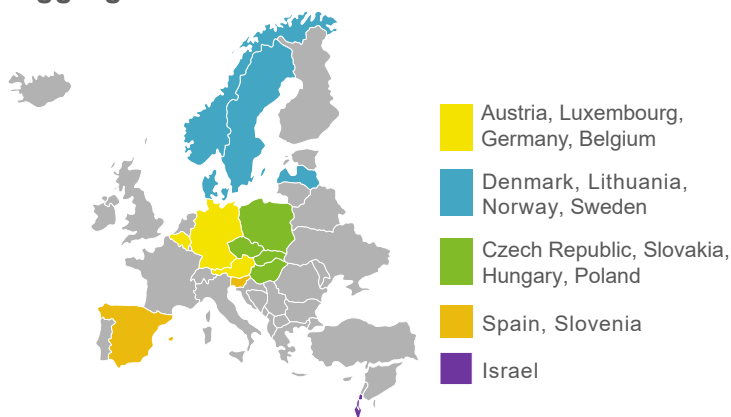


Baseline = datasets available in IPCHEM before the HBM4EU project.

*Pseudonymized single measurement data only accessible via the repository after approval by data controller. The own format aggregated data are not publicly accessible via IPCHEM. The own format aggregated data are not integrated in IPCHEM yet as they focused on integration of the harmonized aggregated data first.

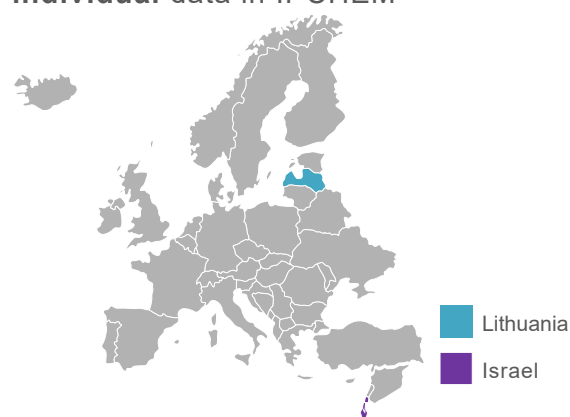
Last update 19/04/2022

Countries with harmonised aggregated data in IPCHEM



• North, East, South, West, Non-European countries



Countries with harmonised individual data in IPCHEM



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 ON TRACK	<ul style="list-style-type: none"> • Data Collections for which metadata are available include all prioritized chemicals • Procedures for sharing data compliant with General data protection regulation (GDPR). • Majority of HBM studies identified through HBM4EU questionnaire have metadata available in IPCHEM. • 15/22 metadata and 8/13 aggregated data sets available before HBM4EU are updated into HBM4EU harmonized format.
 FUTURE PERSPECTIVES	<ul style="list-style-type: none"> • Include existing HBM data from all European countries. • Include more occupational exposure data and, data on second set of prioritized chemicals. • Include more recent (2014-2018) HBM datasets (majority of datasets <2014). • Enhance understanding of GDPR by data providers. • Further develop IPCHEM to facilitate searching, sharing and accessing of HBM data. • Integrate aggregated data of the HBM4EU aligned studies and HBM4EU occupational studies.

METHODOLOGY



This indicator **monitors the number of HBM data collections** which are **made available** via **IPCHEM** through the **HBM4EU project**. The information for this indicator is provided by IPCHEM and VITO.



IPCHEM, HBM4EU Data management plan (AD10.1)

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