EUROPEAN HUMAN BIOMONITORING INITIATIVE (HBM4EU) INDICATOR LEAFLETS

HUMAN BIOMONITORING GUIDANCE VALUES (HBM-GVS)

Indicator 2.2 Number of human biomonitoring guidance values (HBM-GVs) proposed by the HBM4EU consortium

SPECIFIC GOAL 2: Developing a common methodology for the interpretation and use of HBM data in policymaking

RESPONSIBLE: German Environment Agency (UBA) **WORK PACKAGE:** 5 (VITO)

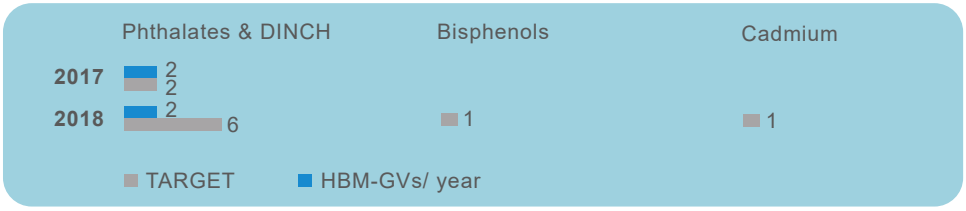
KEY MESSAGES

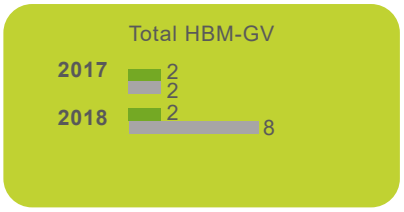
- HBM-GVs are guidance values that correspond to internal exposure levels at which there is no appreciable health risk
- They are derived by experts on the basis of toxicological and epidemiological data according to scientifically accepted derivation schemes
- In 2017 the strategy to derive HBM-GVs was developed and discussed with national hub experts.
- While referring to the collective internal exposure from multiple sources and routes, HBM-GV may complement already existing toxicological reference values for external exposure. Whenever possible data and values of established international bodies are considered, but also recent peer reviewed literature for additional and/or new data is taken into account
- HBM-GVs are developed in consultation with national experts and the EU Policy Board to ensure their wide acceptance
- HBM-GVs will promote the use of HBM data to setting safe human exposure values

WHY

1. Under HBM4EU human biomonitoring data are collected
2. Guidance is needed to interpret these data in a health risk assessment context
3. Therefore, human biomonitoring guidance values (HBM-GVs) are being developed under HBM4EU
4. HBM-GVs can facilitate the use of HBM data in risk assessment

RESULTS





Target and HBM-GVs displayed in the figure are cumulated over the years.

Last update 17/12/2018

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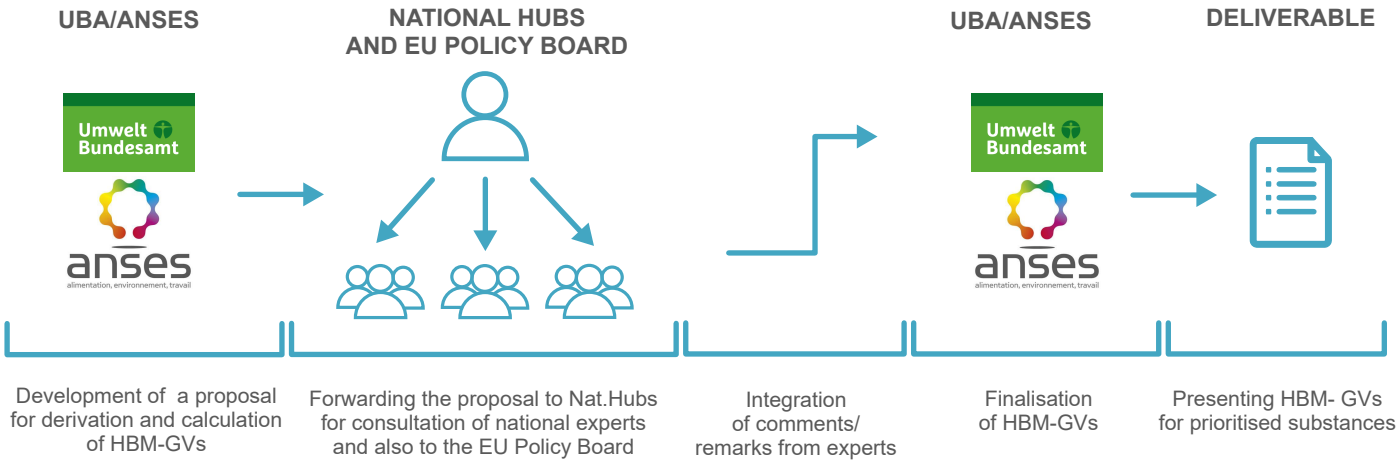
ON TRACK	• HBM-GVs have been derived for the phthalate DEHP (di(2-ethylhexyl) phthalate) and the phthalate substitute Hexamoll® DINCH
WORK IN PROGRESS	• HBM-GVs for DPHP (di-2-propylheptyl phthalate) and DnBP (dibutyl phthalate) are under revision • HBM-GVs for BBzP (butylbenzyl phthalate), DIBP (di-iso-butyl phthalate), BPA (bisphenol A) and Cd (cadmium) will be developed in 2019 • Derivation of further values is planned

METHODOLOGY

Procedure to derive HBM-GVs for the **general population** & for **occupationally exposed adults:**



LINK: Deliverable 5.2

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