



Eiropas Cilvēku Biomonitoringa iniciatīva

HBM4EU

2017 – 2021

HORIZON 2020

Why do we need HBM4EU?

- To better understand the consequences of **human exposure to various chemicals**, a key aspect of environmental health
- To bridge the gap between **science and policy making**
- To share **evidence of use** from national programmes
- **To share existing experience** in the EU and to share the burden
- To generate better evidence for **better regulation**
- To give better access by a new data-infrastructure - **IPChem**
- To **include aggregate exposure** in the health risk assessment



HBM4EU partners

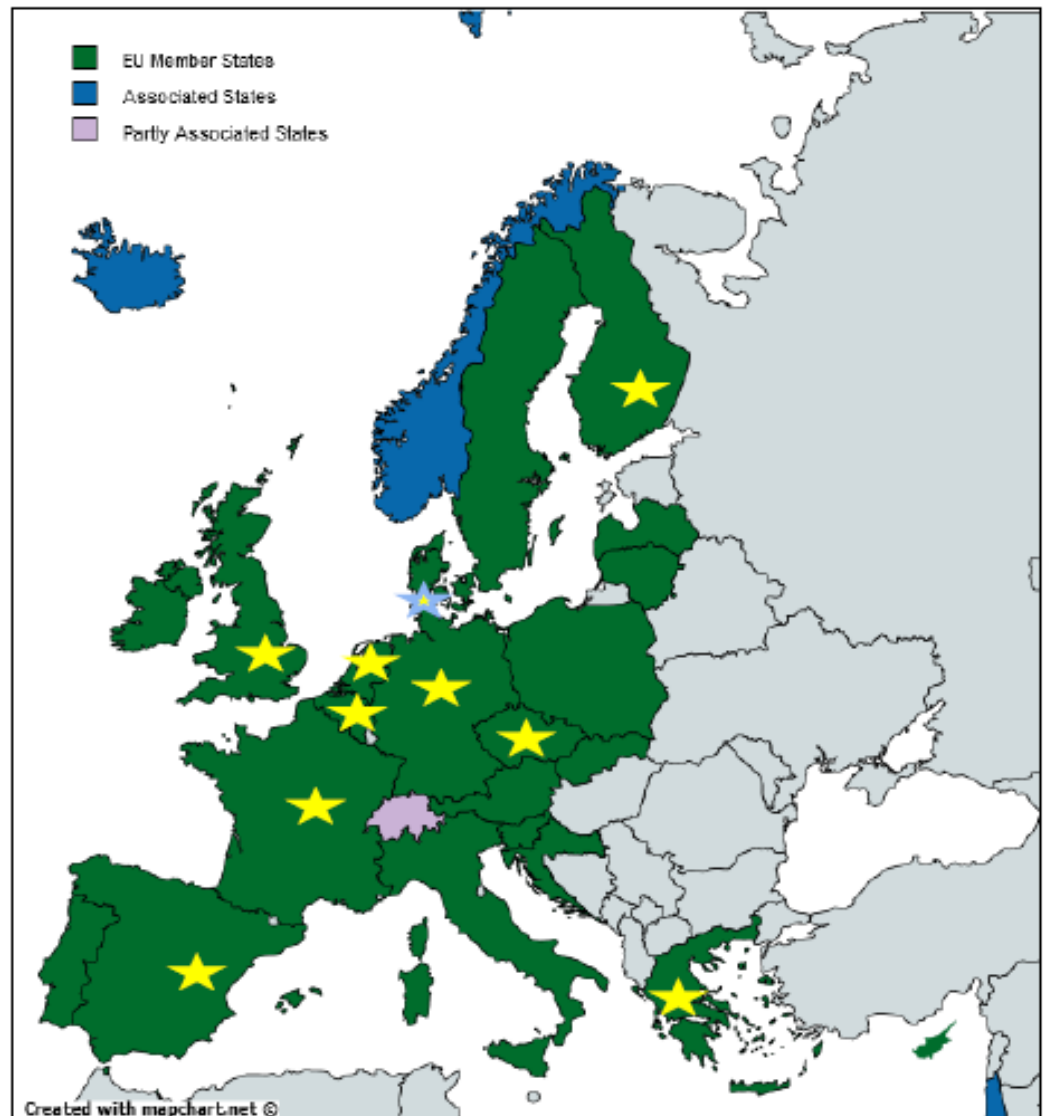
22 EU Member States
3 Associated States
1 Partly Associated State

(3 candidates to join in later)

109 Partners
41 Participants

Financial volume: ~ 73 M €

★ Management Board Member
★ Management Board Member



Priority substances to start with in the 1st year

| Chemical family/Substances | Goals |
|--|--|
| Phthalates & Hexamoll®DINCH® | time trends, focus on substitutes |
| Poly/per-fluorinated compounds | baselines, time trends, support regulation, biomarkers of exposure and effect |
| Brominated & organophosphate flame retardants | baselines, time trends, support regulation, research on health impact |
| Bisphenol A, S and F | overall human exposure and exposure sources, possible further regulation |
| Cadmium and Chromium(VI) | overall human exposure and exposure sources, Cr(VI): possible geogr. variation |
| 8 carcinogenic PAHs in REACH, 16 USEPA priority PAHs | overall human exposure, impact of PAHs on public health |
| Aniline derivatives | exposure of workers |
| Mixtures | identification of chemical mixtures, assessment of effects |
| Emerging substances | screening for new substances, non-targeted analysis |

Work Packages and pillars

Pillar 1: Science to Policy

WP4: Prioritisation and input to the annual work plan

WP5: Translation of results into policy

WP6: Sustainability and capacity building

Pillar 2: European HBM Platform

WP7: Survey design and fieldwork preparation

WP8: Targeted field work surveys and alignment at EU level

WP9: Laboratory analysis and quality assurance

WP10: Data management and analysis

Pillar 3: Exposure and Health

WP11: Linking HBM, health surveys, and registers

WP12: From HBM to exposure

WP13: Establishing exposure health relationships

WP14: Effect Biomarkers

WP15: Mixtures, HBM and human health risks

WP16: Emerging Chemicals

WP3: Internal Calls

WP2: Knowledge Hub

WP1: Programme management and coordination

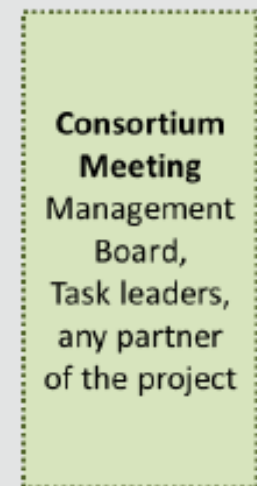
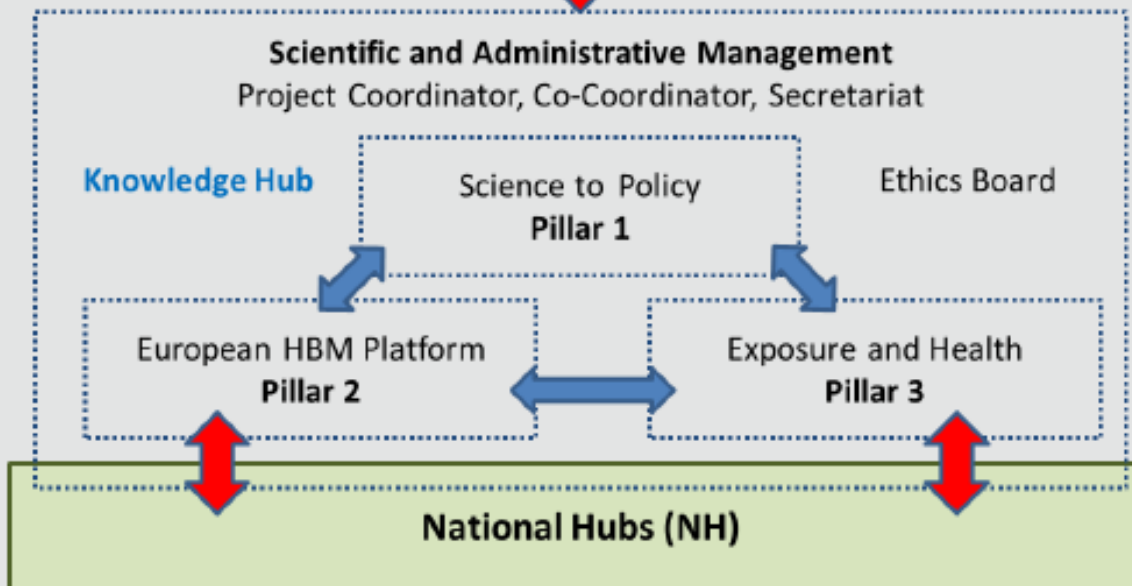
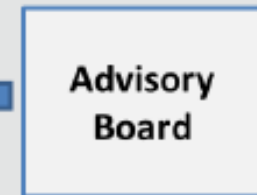
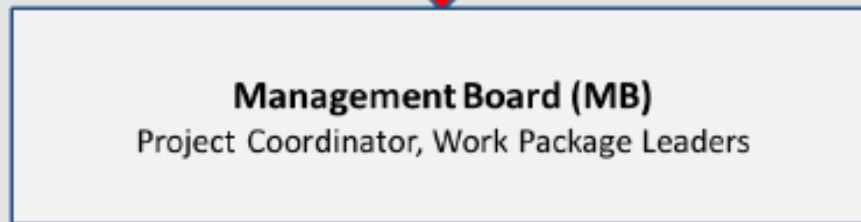
National and EU Stakeholders; Advisory Board

Structure of HBM4Europe

Decision making



Steering



National Hubs- responsibility at national level

- Headed by a national hub coordinator (member of the consortium)
- Facilitate networking within national stakeholder groups
- Coordination of partners (incl. linked third parties)
- Communication – within the country
- Offering and taking part in training activities
- Field work, data collection, laboratory analysis
(using protocols developed in Work Packages)
- Facilitate exchange of know-how, interests, positions
- Identify national priorities for policy actions/ priority substances
- Formalized forum to feed priorities into HBM4EU
and from HBM4EU back to countries

Plānojamie darbi

- Nacionālo programmu saturs
- Prioritāro vielu nominēšana otrajam izpētes ciklam līdz 2017.g.jūnijam :
 - Ņemot vērā ekspozīcijas datus, apjoma datus (patēriņš), ietekmei pakļauto grupu veidu un lielumu, toksikoloģiskos datus
- Ētikas atļaujas pētījumu veikšanai (paraugu vākšana, uzglabāšana, analīžu veikšana ārpus LV teritorijas) (ekspertu nominēšana)
- Ekspertu nominēšana (toksikoloģijas un ekotoksikoloģijas jomā)
- Potenciālo testēšanas laboratoriju apzināšana nacionālajā līmenī, nepieciešamo apmācību identificēšana (piem., paraugu vākšana, uzglabāšana, pētījumu grupu atlase u.c.)