



Update on the activities related to action 3 of the European Environment & Health Strategy „EU pilot project on human biomonitoring“

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ESBIO Project



The project is funded by the European Commission (Directorate-General Research) under the 6th framework programme for research and technological development in close cooperation with Directorate-General Environment

Contract No: 022580 (SSPE)

Background

2003 European Environment and Health Strategy
Objectives:

- to reduce the disease burden caused by environmental factors
- to identify and to prevent new health threats caused by environmental factors
- to strengthen EU capacity for policymaking in this area

2004 Communication on the Environment and Health Action Plan 2004 – 2010

In the framework of Action 3 the European Commission committed to develop in close cooperation with the Member States a coherent approach to Human Biomonitoring in Europe.

Background

Given the complexity of the issues a STEP-BY-STEP approach has been set up:

2005

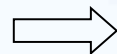
4. step: technical preparation of the
EU HBM Pilot Project



ESBIO Project

2007

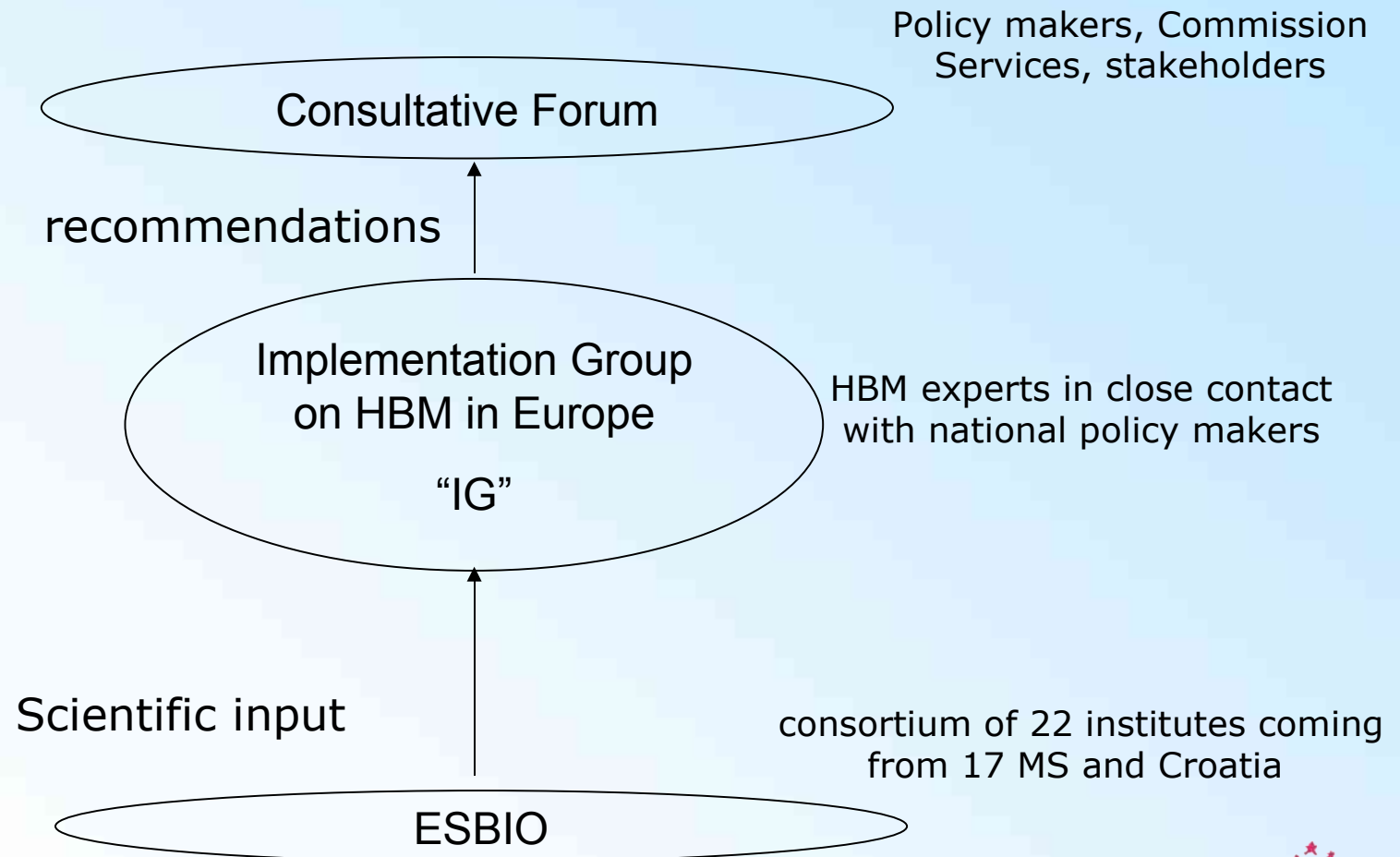
8. step: EU network on Human Biomonitoring
(Pilot Project)



call was published in December,
currently the evaluation of the proposals
is ongoing


Current network

Aim: harmonised approach to HBM in all involved MS




Aims of ESBIO

Support and prepare:




Coordinated approach for Human Biomonitoring (HBM) in Europe based on existing experiences



Possibilities to integrate HBM results most efficiently with environmental monitoring and registered health data



Strategy for communication of HBM results



Scenarios for the use of Biomonitoring results for policy making

Scenarios as input to IG recommendations

Content of the 3rd recommendations:

→ Scenarios to react on the different level of experiences in the individual Member States

Scenario 1

= basis and mandatory for participation in the pilot project

Recommended substances:

Lead, Methylmercury, Cadmium and Cotinine

Scenario 2

= optional / condition: at least 5 interested Member States

MS favoured the following substances:

phthalates, PAHs, tin organic compounds, arsenic, PFOS

WP 1: INVENTORY ON HBM

Prof. Maria de Fátima Calado Varela Reis

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- ⊕ Conference „State of the Art of HBM“
→ Special issue of the International Journal of Hygiene and Environmental Health
- ⊕ Updated inventory in electronic form
- ⊕ EU platform for exchange of expertise and experiences

website: www.HBM-inventory.org

WP 2: GUIDELINES FOR BEST PRACTISE AND COORDINATED APPROACH

Dr. Marike Kolossa-Gehring

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⊕ Protocols for sampling , recruitment, collecting, analyses, organisation of laboratory work

⊕ Questionnaires for Pilot Project

✓ Study population

✓ Recruitment

✓ Chemical analysis

✓ Study design

✓ Harmonisation of

✓ Field work

✓ Questionnaires

data treatment and

✓ Selection of

✓ Quality control

evaluation

Participants, Samples

Documents available on:

<http://www.eu-humanbiomonitoring.org/sub/esbio/docs.htm>

WP 3: GUIDELINES FOR INTEGRATION SCENARIOS WITH E&H MONITORING

Prof. Greet Schoeters

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- + Links of HBM results to environmental monitoring, health monitoring and research
- + Concept to establish biomonitoring as a policy making tool on a European level

Documents available on:

<http://www.eu-humanbiomonitoring.org/sub/esbio/docs.htm>

WP 4: ETHICAL ISSUES

Dr. Lisbeth E. Knudsen

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- + Workshop with stakeholders
- + Justified concept for dissemination and communication of results within participants of HBM

Documents available on:

<http://www.eu-humanbiomonitoring.org/sub/esbio/docs.htm>

WP 5: SOCIO ECONOMIC CONSEQUENCES

Dr. Reinhard Joas

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- ⊕ Assessment of alternatives for costs and benefits
- ⊕ Concept for follow up of the Pilot Project

Documents available on:

<http://www.eu-humanbiomonitoring.org/sub/esbio/docs.htm>

WP 6: UTILITY AND SENSITIVITY OF BIOMARKERS

Prof. Marek Jakubowski
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- ⊕ Assessment of the applicability of bioassays
- ⊕ Evaluation of currently used biomarkers
- ⊕ Workshop in Lodz, Poland (30/31.03.2006)

Documents available on:

<http://www.eu-humanbiomonitoring.org/sub/esbio/docs.htm>

WP 7: CONSORTIUM MANAGEMENT

WP 8: COORDINATION AND DISSEMINATION

Dr. Reinhard Joas

✉ reinhard.joas@bipro.de

- ⊕ press release
- ⊕ brochure, poster



website: www.eu-humanbiomonitoring.org

Contact

www.eu-humanbiomonitoring.org

<http://ec.europa.eu/research/>

http://ec.europa.eu/environment/health/index_en.htm

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Aim of an EU HBM Pilot Project

To develop and to test a coherent and harmonized approach throughout Europe by means of commonly developed protocols, strategies and scientific tools ensuring reliable and comparable data, whilst also leading to a more effective use of resources involved.

- To gain **practical knowledge** of access to study populations, recruitment procedures and response rates
- To **test the developed guidelines, protocols and technical procedures** for field work, questionnaires, chemical analyses, data handling and processing
- To **test ethical guidelines and gain experience** on ethical rules, within the frame of social and legal aspects of the different Member States
- To receive **practical information on overall performance** of participating Member State units including the laboratories involved via an inter-laboratory comparison
- To **collect biomonitoring data** from different European countries
- To **obtain preliminary reference values** of selected biomarkers from all participating Member States.
- To **assess the costs** of the applied HBM-programme, preferably including a concept to improve time and cost efficiency
- To **collect basic data for the development of initial scenarios** for the translation of biomonitoring results into risk management and environment and health policy