1 st MACRAMÉ Risk Assessors Summit

BAuA Berlin, 27./28. Nov. 2023

„Welcome to BAuA“

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Scientific Director „Hazardous Substances and Biological Agents“

BAuA
The German Federal Institute for Occupational Safety and Health

- **Governmental research institution**
- subordinated to the **Federal Ministry of Labour and Social Affairs**
- established in 1996 in its current composition
- 800 employees

research, policy advice, practical transfer, sovereign tasks (e.g. REACH, Biocides Reg.), Working World Exhibition (DASA, Dortmund)

OSH enforcement: 16 Federal States, German Statutory Accident Insurance

BAuA Division 4 - Organisation

Division 4
Hazardous Substances and Biological Agents (Dortmund)

Scientific Management Division 4 (Do)

Section 4.I (Do) Hazardous Substances, Chemical Safety		**Section 4.II (Berlin)** Biological Agents, Biocides	
Unit 4.I.1 (Do) Hazardous Substances in OSH, Coordination CLP	**Unit 4.I.4 (Do)** Exposure Assessment, Exposure Science	**Unit 4.II.1 (B)** Biological Agents in OSH	**Unit 4.II.4 (Do)** Exposure Assessment Biocides
Unit 4.I.2 (Do) REACH Assessment Unit OSH	**Unit 4.I.5 (B) Materials and Particulate Hazardous Substances**	**Unit 4.II.2 (B)** Bioaerosols	**Unit 4.II.5 (B)** Health Surveillance, Biological Monitoring
Unit 4.I.3 (Do) Toxicology	**Unit 4.I.6 (Do)** Measurements of Hazardous Substances	**Unit 4.II.3 (Do)** Biocides Assessment Unit OSH	

OSH: Occupational Safety and Health

approx. 85 employees

approx. 55 employees

Devision 4 - Mission

We protect people from health risks due to exposure to chemical or biological agents at work.

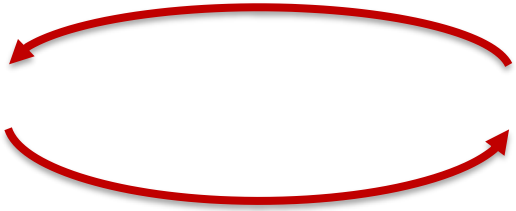
We promote the use of safe chemical and biological agents.

We support that working conditions are designed in a way that the remaining risks are below socially accepted standards, if substitution is not possible

How we work

Initiation of scientific questions
and research needs

research and development



sovereign tasks, policy advice, transfer to practice

Political consulting and regulation

"Regulation must keep pace with innovation"

Division 4 - Locations and laboratories

Hazardous Substances (4.I.6, Do)

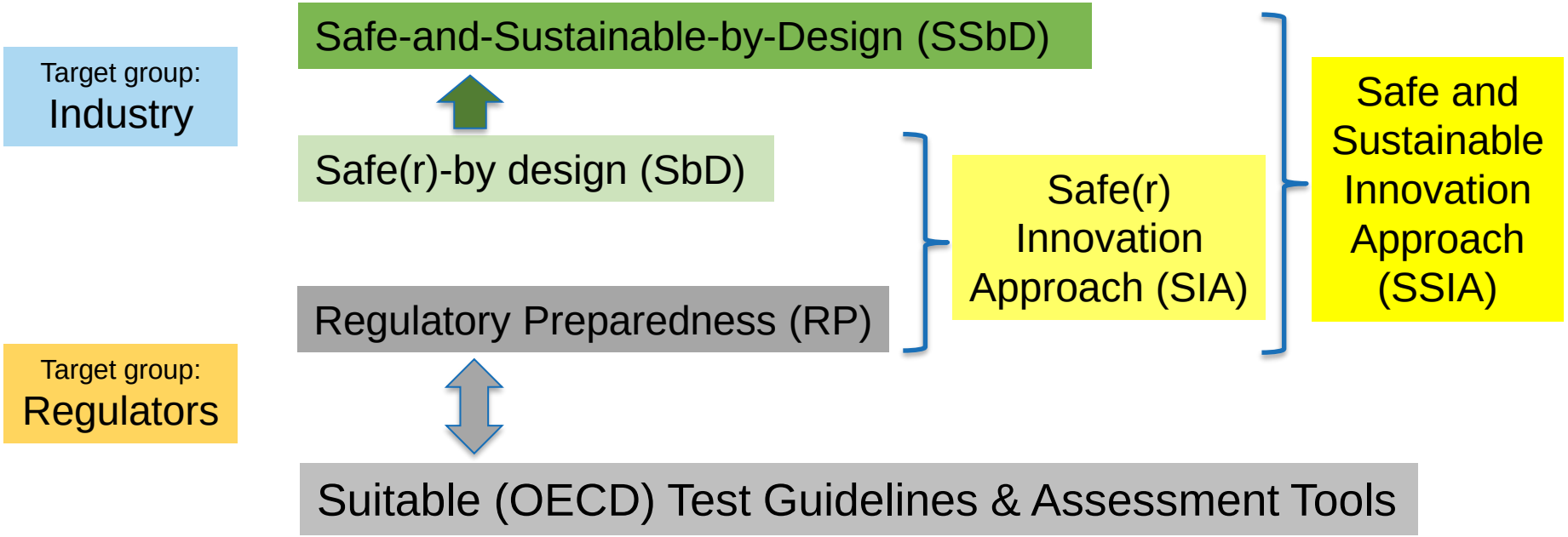
Particle characterisation (4.I.5, B)

Biochemistry, Microbiology (4.II.2, B)

Biomonitoring, Occupational Medicine (4.II.5, B)

Safer Innovation Approach

Organisation for Economic Co-operation and Development



based on:
Safer Innovation Approach, OECD ENV/CVC/WRPR(2022)50, July 22

Three ways to a safe design of chemicals and materials

Direct safe-to-use

- **Designing hazardous properties of chemicals, materials and products to low risk**

Integrated safe-to-use

- **Designing exposure potential of chemicals, materials and products to low risk**

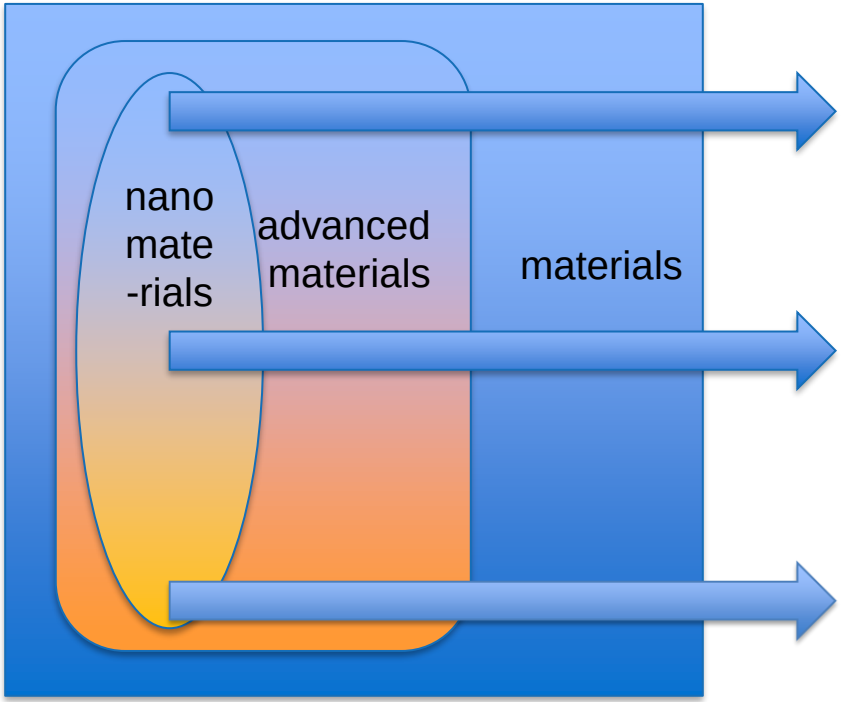
Supported safe-to-use

- **Designing low-risk application of hazardous chemicals, materials and products**

User effort for safety

https://www.baua.de/EN/Service/Publications/Focus/Sustainability.html

The challenge of advanced materials



Specific toxicity
Hazard determined by the chemical composition and/or special chemical properties

GBP toxicity
Hazard determined by release of respirable **g**ranular **b**iopersistent **p**articles

Fibre dust toxicity
Hazard determined by release of respirable biopersistent fibres with critical morphology

substance-inherent properties
"chemical hazards"

depending on material characteristics and potential for release
"morphological hazards"

Advanced materials: high on the current EU agenda

President Von der Leyen's 'Letter of intent to Presidency of Council and Presidency of the European Parliament' of 13.09.23

European Commission

Coordinated Plan of Member States and EU on Advanced Materials

Leadership in research

Fast-track to market

Inclusive governance of the materials ecosystem for the next years

Green and digital transformation („TWIN transition")