

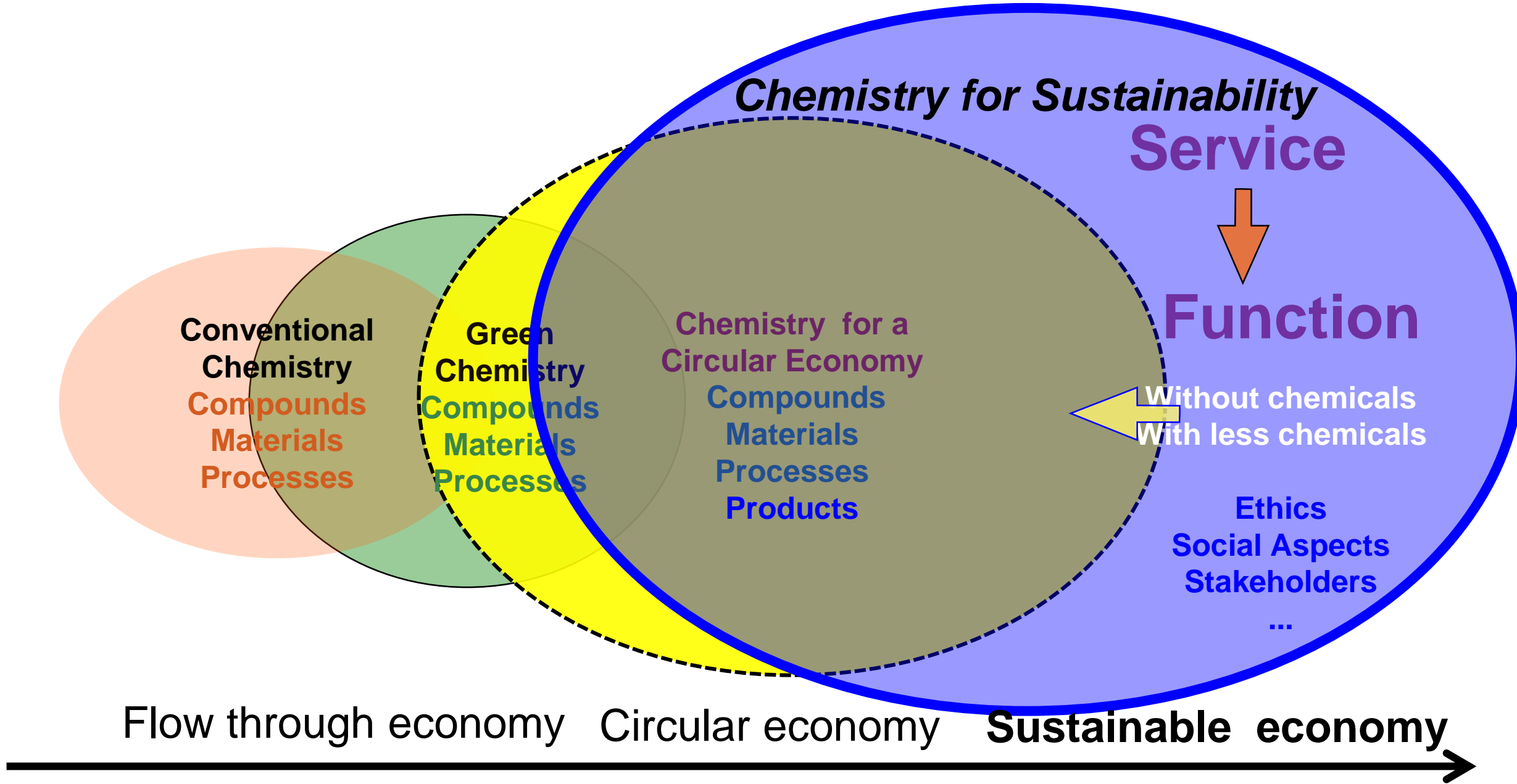
Für Mensch & Umwelt

Umwelt   
Bundesamt

Anchoring sustainable chemistry in chemicals management: Development of milestones and indicators for international chemicals management beyond 2020

# Criteria for the assessment of potential indicators (preliminary version) and further work

Dr. Henning Frieger



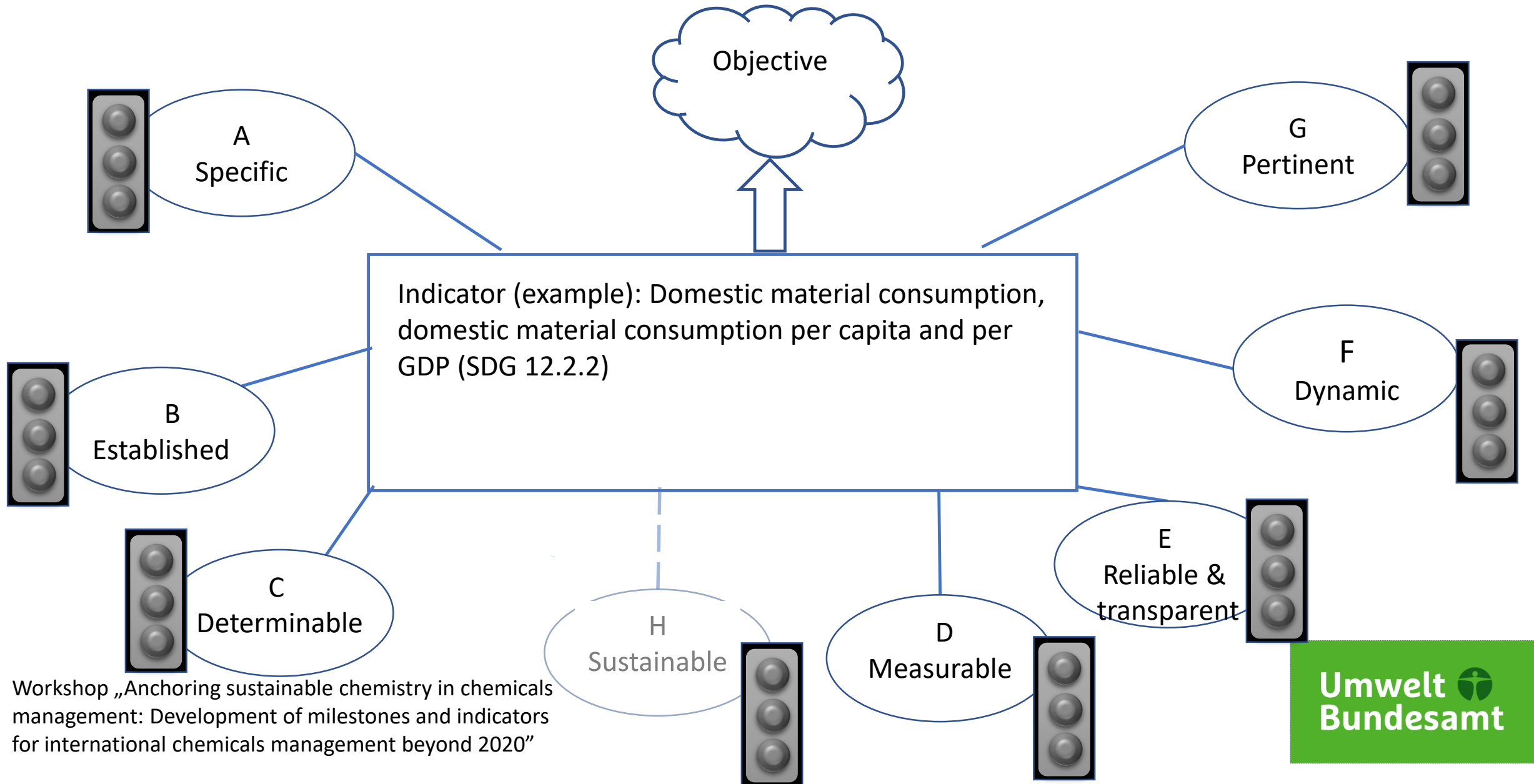
## General criteria for indicators

<b>A) Specific</b>	The indicator must be precise.
<b>B) Established</b>	The indicator is already in use by other systems, e.g. SAICM, Conventions.
<b>C) Determinable</b>	The collection of the data needed for reporting in the respective sector is easy and cost-efficient.
<b>D) Measurable</b>	Measurable: Either quantities, thresholds or qualitative measures is are applicable.
<b>E) Reliable and transparent</b>	The data associated with the indicator are trustable and traceable.
<b>F) Dynamic</b>	Over time, a difference in the data associated with the indicator can be measured.
<b>G) Pertinent</b>	The indicator covers relevant aspects for the respective sector.

## Specific criteria for Sustainability reflected by indicators for sustainable Chemistry

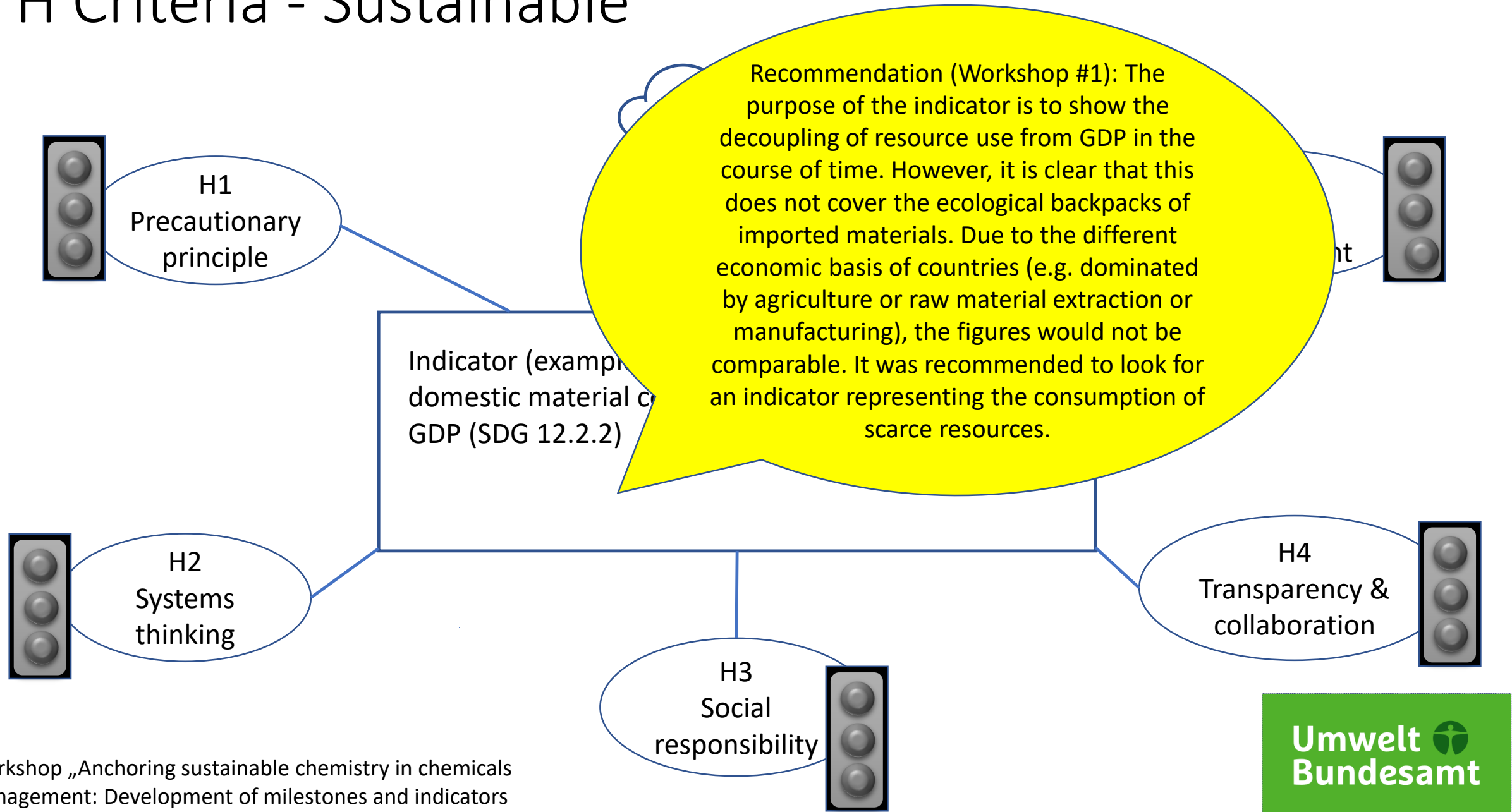
<b>H) Sustainability</b>	Advancing chemical innovation and guiding the chemical sector towards contribution to Sustainable Development (e.g. Agenda 2030) in compliance with their respective principles / respecting the subcriteria
<b>H1) Precautionary principle</b>	Develop safe alternatives for chemicals of concern through material and product innovations. Avoid transport of problems to other sectors and life-cycle stages and future legacies
<b>H2) Systems thinking</b>	Interdisciplinary and multidisciplinary approach covering the interfaces with other urgent issues (health, climate, resources/waste/circularity, biodiversity, nutrition...) covering the life cycle of the chemical/process/material/product in question
<b>H3) Social responsibility</b>	Promoting health and safety as well as fair, inclusive, and emancipatory in respect of human rights and justice
<b>H4) Transparency and collaboration</b>	Fostering information exchange and collaboration in science, education and transparency throughout the entire life cycle of chemicals
<b>H5) Resource management</b>	Sustainable extraction and use of raw materials and chemistry innovations to enable circular material flows without contamination throughout the entire life cycle.

# General Criteria – A-F



Workshop „Anchoring sustainable chemistry in chemicals management: Development of milestones and indicators for international chemicals management beyond 2020”

# H Criteria - Sustainable

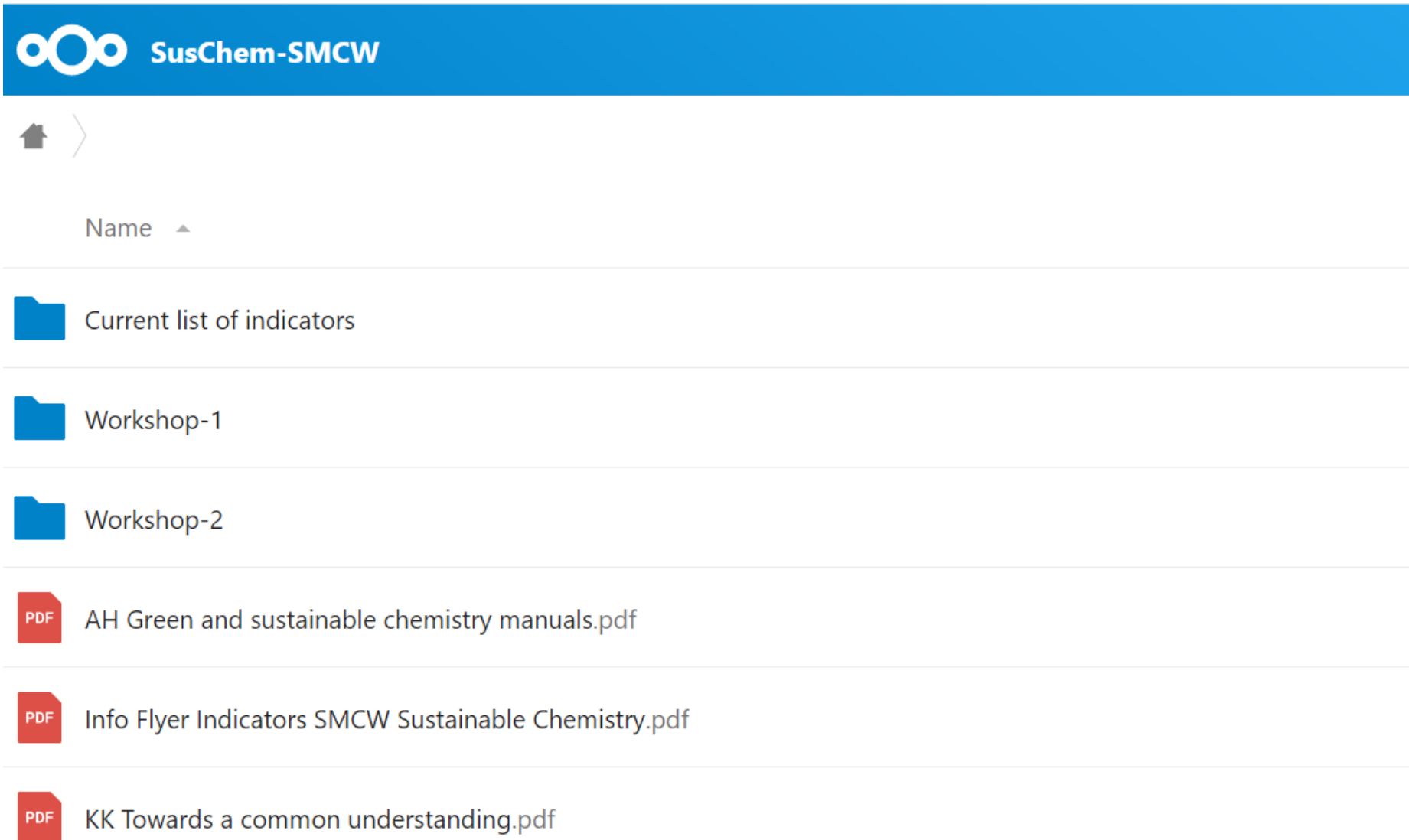



Workshop „Anchoring sustainable chemistry in chemicals management: Development of milestones and indicators for international chemicals management beyond 2020“



## Workshops: date, location, main focus

- **17.11.2020: VIDEO CONFERENCE, EUROPE, FOCUS ON CRITERIA AND FIRST GLIMPSE ON SOME INDICATORS**
- **09.03.2021: VIDEO CONFERENCE, ASIA (W/O NEAR EAST), FOCUS ON INDICATORS FOR RESOURCE CONSUMPTION, WASTE, CHEMICALS**
- **JULY, 2021: VIDEO CONFERENCE, NORTH AMERICA AND NEAR EAST (?), FOCUS ON CLIMATE, ENERGY, RESOURCES (?)**
- **SEPTEMBER, 2021: VIDEO CONFERENCE, AFRICA AND BRAZIL (?), FOCUS ON BIODIVERSITY, RENEWABLE RAW MATERIALS, NUTRITION, WATER (?)**
- **JANUARY, 2022: SOMEWHERE IN LATIN AMERICA (?), FOCUS ON WORKPLACES, OCCUPATIONAL AND PUBLIC HEALTH, GENDER EQUITY (?)**
- **APRIL, 2022: FRANKFURT, REVIEW OF THE FOREGOING WORKSHOPS AND CONCLUSIONS**







## All results of the workshops are available (read only version, downloads restricted)



 SusChem-SMCW

Name ▲

-  Current list of indicators
-  Workshop-1
-  Workshop-2
-  AH Green and sustainable chemistry manuals.pdf
-  Info Flyer Indicators SMCW Sustainable Chemistry.pdf
-  KK Towards a common understanding.pdf