Traceability of chemicals along (circular) supply chains

Insights from transformative research

Martin Führ, Silke Kleihauer, Leonie Lennartz, Rebecca Niebler, Julian Schenten, Simon Winkler-Portmann (sofia)
Societal and normative requirements for industries

Green Deal and „Zero pollution“ Circular Economies
Digital Product Passport

Increasing number of chemical regulations (restrictions, information obligations) world wide

Complex global supply chains
Transformative research with industry shows way to traceability

Scenario building processes with textile (2016-17) and leather sectors (2019): Traceability (FMD) enabler to increase control and move towards more sustainable chemistry

Study with Furniture sector (2018-19) shows benefits / business cases of traceability beyond end-of-life

LIFE AskREACH launched first feasibility studies (2020) with SMEs marketing electronics and children’s footwear

Solutions for chemicals present in articles, research needs for process chemicals
Horizontal and vertical cooperation is imperative

Cross-sectoral solutions enhance effectivity and efficiency

**Proactive Alliance** vision: standardize data structure and information requirements across sectors, support FMD

Trust enabled by **governance mechanisms** is key to leverage benefits

Cooperation with suppliers: continuous improvement processes in a learning system
Legal challenges and prerequisites (1)

Industry

Create framework conditions ensuring compliance
REACH “article” definition (O5A) as yardstick

Avoid exemptions diluting effectiveness and compliance, example of (“historic”) REC 19 in IMDS
Legal challenges and prerequisites (2)

Legislators

Fix design flaws and advance legislation

- Proactive implementation of REACH Art. 33(1) “duty to organize”
- Provide SVHC info when “making available” in (online) catalogue
- Legal Frameworks: Advance incentives, reduce impediments
Conclusions

1. „Zero pollution“ Circular Economy vision leaves **no way around IT enabled chemical traceability** (perspective: FMD)

2. **Advance incentives** for (cross-) sector solutions

3. REACH re-opening anticipated for 2022 is **an opportunity** to enhance the legal framework(s)

4. Research and IT development needed on **process chemicals’ “traceability”** – tech neutral; focus on actor’s needs
Thank you for the Attention

www.sofia-research.com
www.reach-helpdesk.info
sne.h-da.de/leather-chemistry/
schenten@sofia-darmstadt.de, +49-6151 1638899