



Fostering innovation through Safe & Sustainable by Design framework

*Jürgen Tiedje
Head of Unit*

*GLOBE EU conference on Sustainable Chemicals
24/05/2023*

*E3 – Industrial Transformation
DG Research & Innovation*

SSbD framework

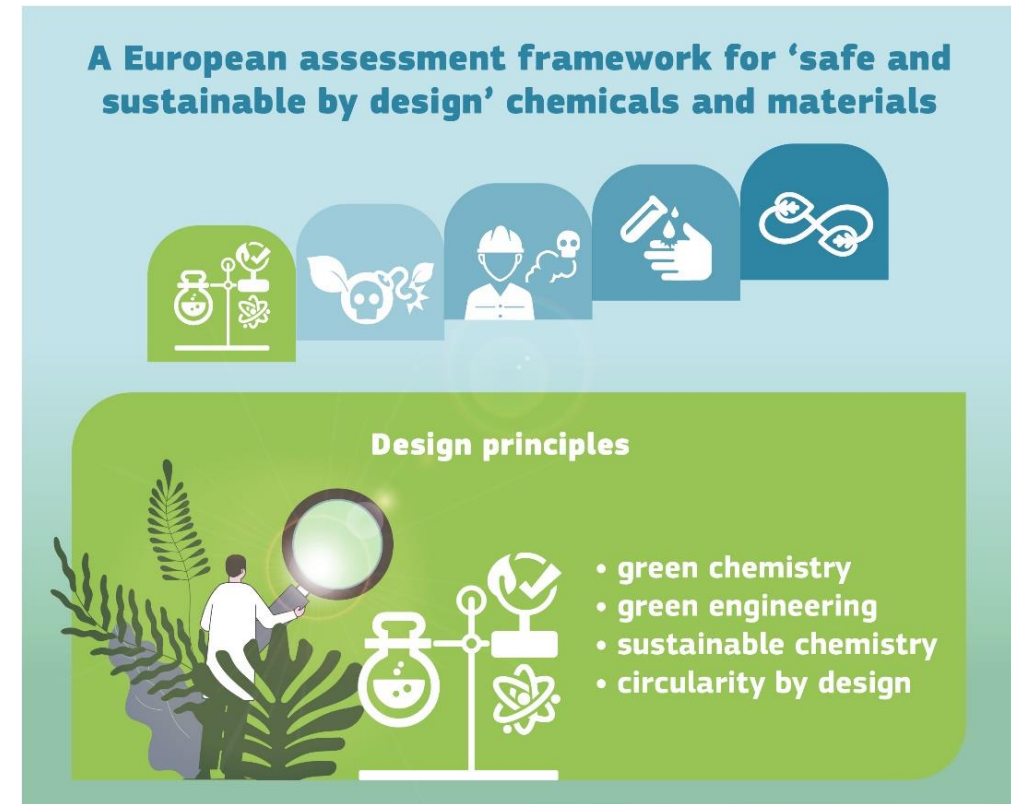
Stage 1: guiding (re)design principles


- Principles to be considered to maximise the possibilities of a successful safety and sustainability assessment outcome

Stage 2: safety and sustainability assessment

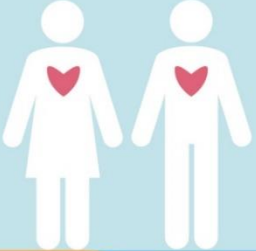


- Step 1 - **Hazard assessment** of the chemical/material
- Step 2 - **Human health and safety aspects** in the chemical/material **production** and **processing** phase
- Step 3 - **Human health and environmental aspects** in the final **application** phase
- Step 4 - **Environmental sustainability** assessment

- The steps can be performed in parallel, as information becomes available at various life cycle stages
- The SSbD framework can help with decision taking during the various stages of the innovation process (design, planning, experimental testing and prototyping).





MAKING CHEMICALS AND MATERIALS SAFE
AND SUSTAINABLE TO PROTECT HUMAN
HEALTH AND THE ENVIRONMENT.



Join us in testing the **framework**
and using the safety and sustainability
assessment for your R&I activities
on chemicals and materials.

This framework can

- steer **innovation**
- become a global **reference**
- accelerate the development of **alternatives**
to substances of concern.

Thank you!



© European Union 2020

Unless otherwise noted the reuse of this presentation is authorised under the [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/) license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.

