Bundesanstalt für Arbeitsschutz und Arbeitsmedizin

Substitution of Carcinogens in the EU

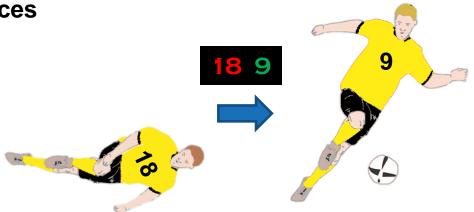
Presidency Conference Roadmap on Carcinogens 2020 "STOP cancer at work"

> Dr. Michaela Clever Federal Institute of Occupational Safety and Health (BAuA), Division 4, Unit 4.6 10.11.2020

Concept of Substitution

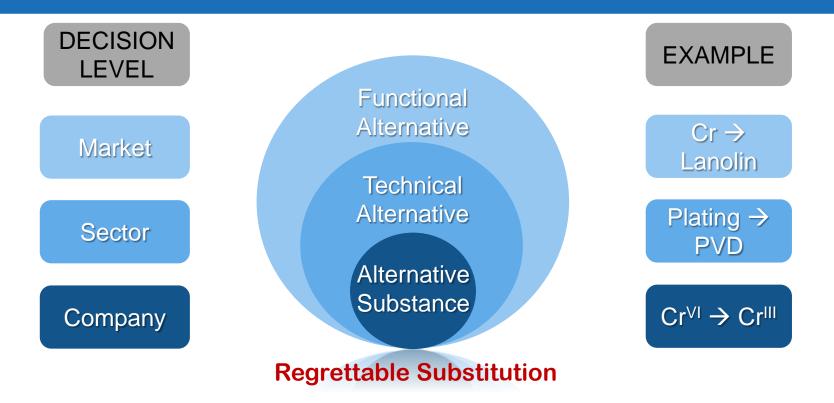
Substitution of Hazardous Substances

- ✓ Drop-In Replacement
- ✓ Less hazardous
- ✓ Same Function
- ✓ Same Performance or better
- ✓ Same Quality or better



Example for a drop-in replacement

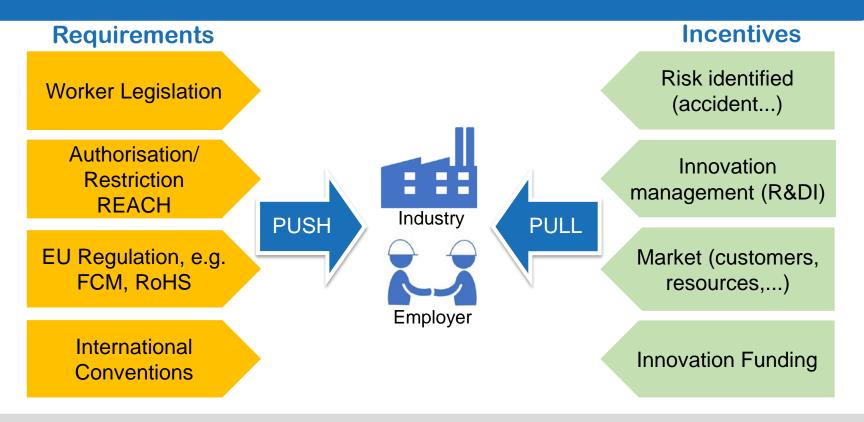
Types of Alternative



Substitution of Carcinogens in the EU - Dr. Michaela Clever

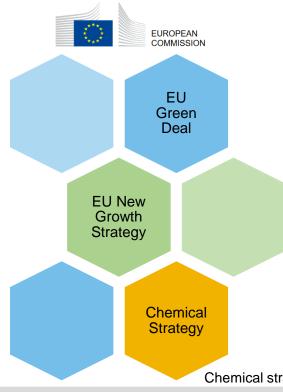
Saua:

Drivers for Substitution of Hazardous Substances



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Chemical Strategy for Sustainability (14.10.2020)



Innovating for Safe and Sustainable EU chemicals

- Safe & sustainable-by-design (SsbD) criteria for chemicals
- EU-wide SsbD support network
- Financial support
- Education & Competence building

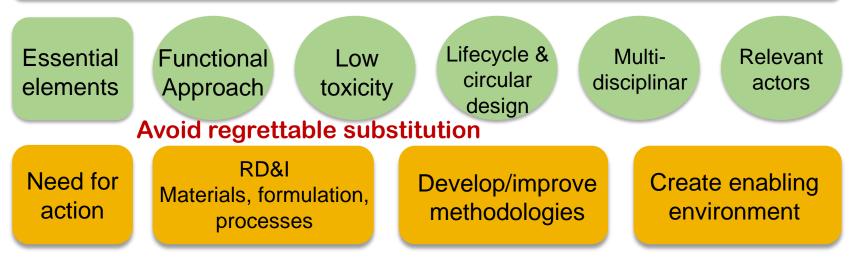
Non-toxic material cycles- minimize toxic chemicals

Protection against harmful chemicals- criteria for essential uses, extend level of protection to professional users under REACH

Chemical strategy: https://ec.europa.eu/environment/pdf/chemicals/2020/10/Strategy.pdf

Safe-by-Design & Sustainable-by-Design

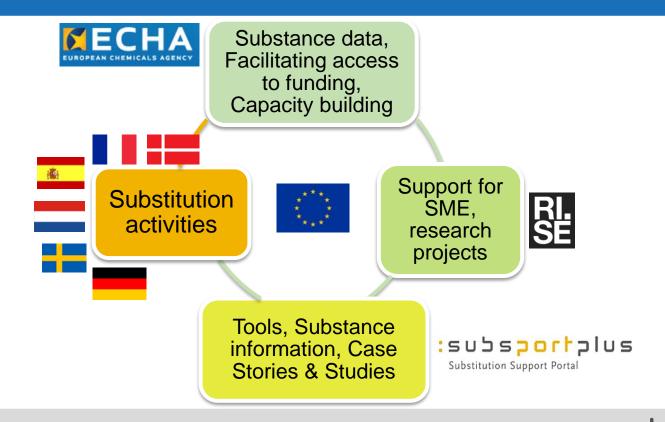
Mission: improve the safety profile of chemicals, materials and products



Modified according to: van der Waals J.F.M., Falk A., Fantke P., Filippousi P., Flipphi R.C.H., Mottet D., Trier X. (2019). Safe-by-design for materials and chemicals: Towards an innovation programme in Horizon Europe. https://zenodo.org/record/3254382#.X6Ex2ecxm71

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Programs of Informed Substitution in the EU



Case Stories of Successful Substitution & Good Practice

Saua::subsportplus

Substitution Support Portal



- Database of case stories (> 370 EN, 90 DE), examples of successful substitution
- Case studies for specific substances



Assistance and information about the safe use of substances, which are currently not replaceable

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Challenges & Chances of Substitution

Substitution is a stepping stone on the way to a non-toxic evironment.



Protection of environment, consumer and worker

Thank you! Questions?

Visit: <u>http://www.subsportplus.eu/</u>

Contact: <u>clever.michaela@baua.bund.de</u>



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Substitution Support Portal



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