



Integrating **EMAS, CRM, ESG & IED**
for Sustainable Growth

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A Strategic Look at Chemicals Risk Management.

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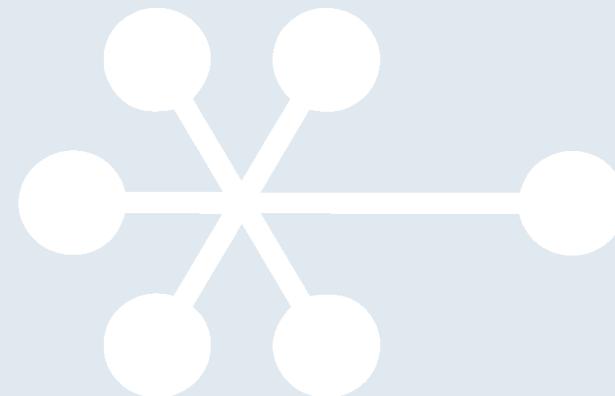
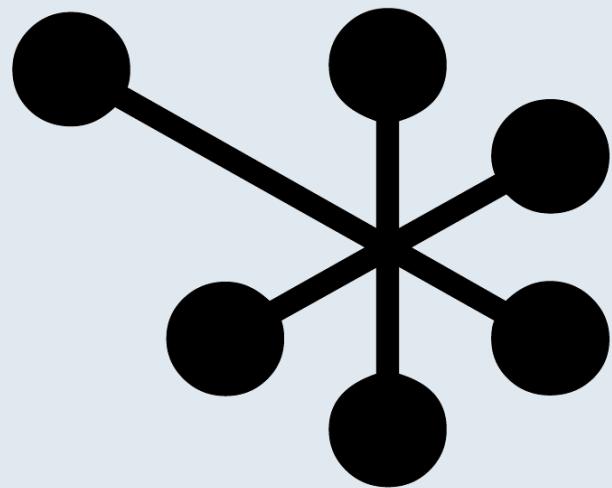
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A Strategic Look at Chemicals Risk Management

The project "Chemicals Risk Management and Assessment of Alternatives: Tools and best practices to support circularity, create more sustainable products and avoid regrettable substitution" (LIFE FitForREACH2, No. 101113947 — LIFE22-ENV-EE-LIFE FitforREACH-2) is co-financed with the contribution of the LIFE Programme of the European Union.



Overview

- What are chemical risks?
- Benefits of ambitious chemicals risk management
- Integration of chemicals risk management into EMAS



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What is a chemical risk?

**Likelihood of damage
to **human health** or
the **environment** that results from
exposure to one or several
hazardous substances**

Hazards

- Physical chemical hazards,
 - Explosive
 - Flammable
- Human health hazards
 - Carcinogenic
 - Toxic
- Environmental hazards
 - Acute aquatic toxicity



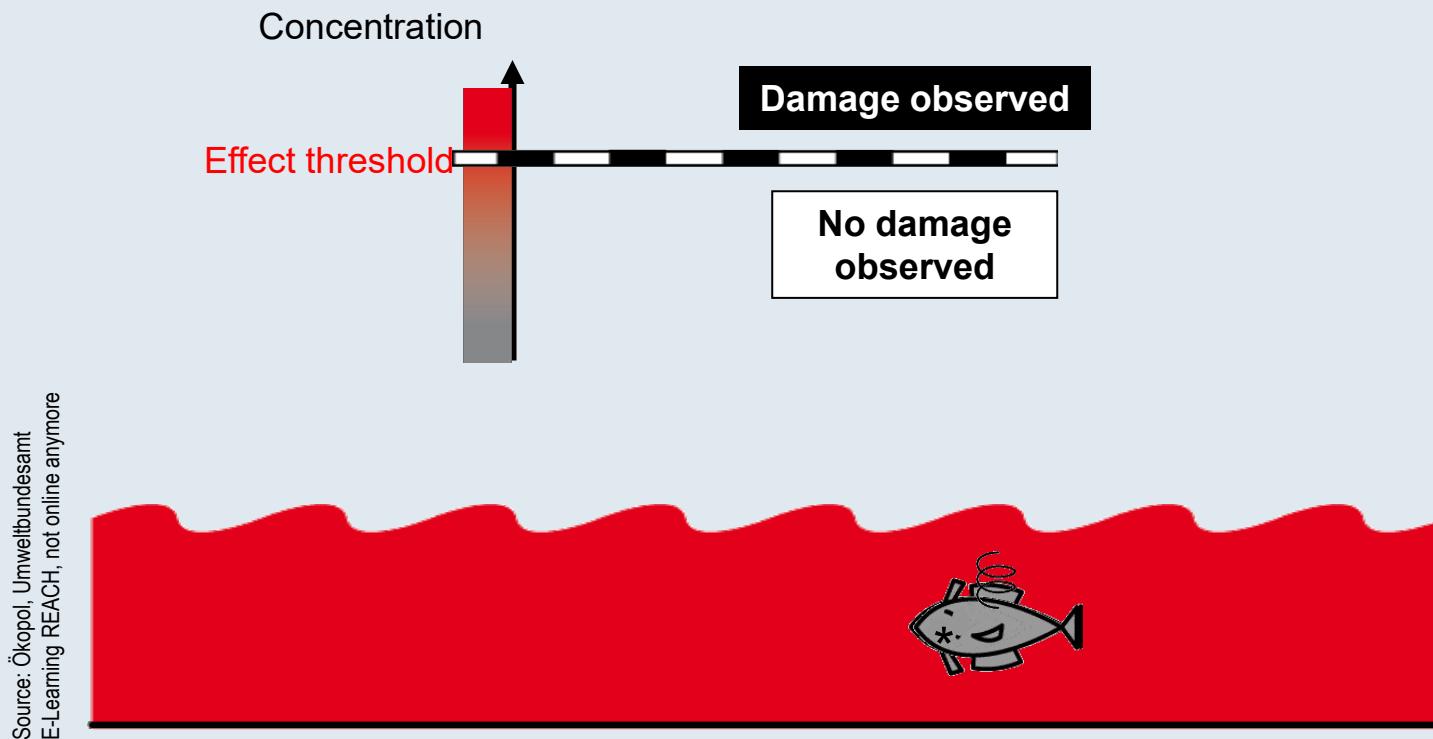
Hazards

Workplace Safety, Storage, Emergency Preparedness

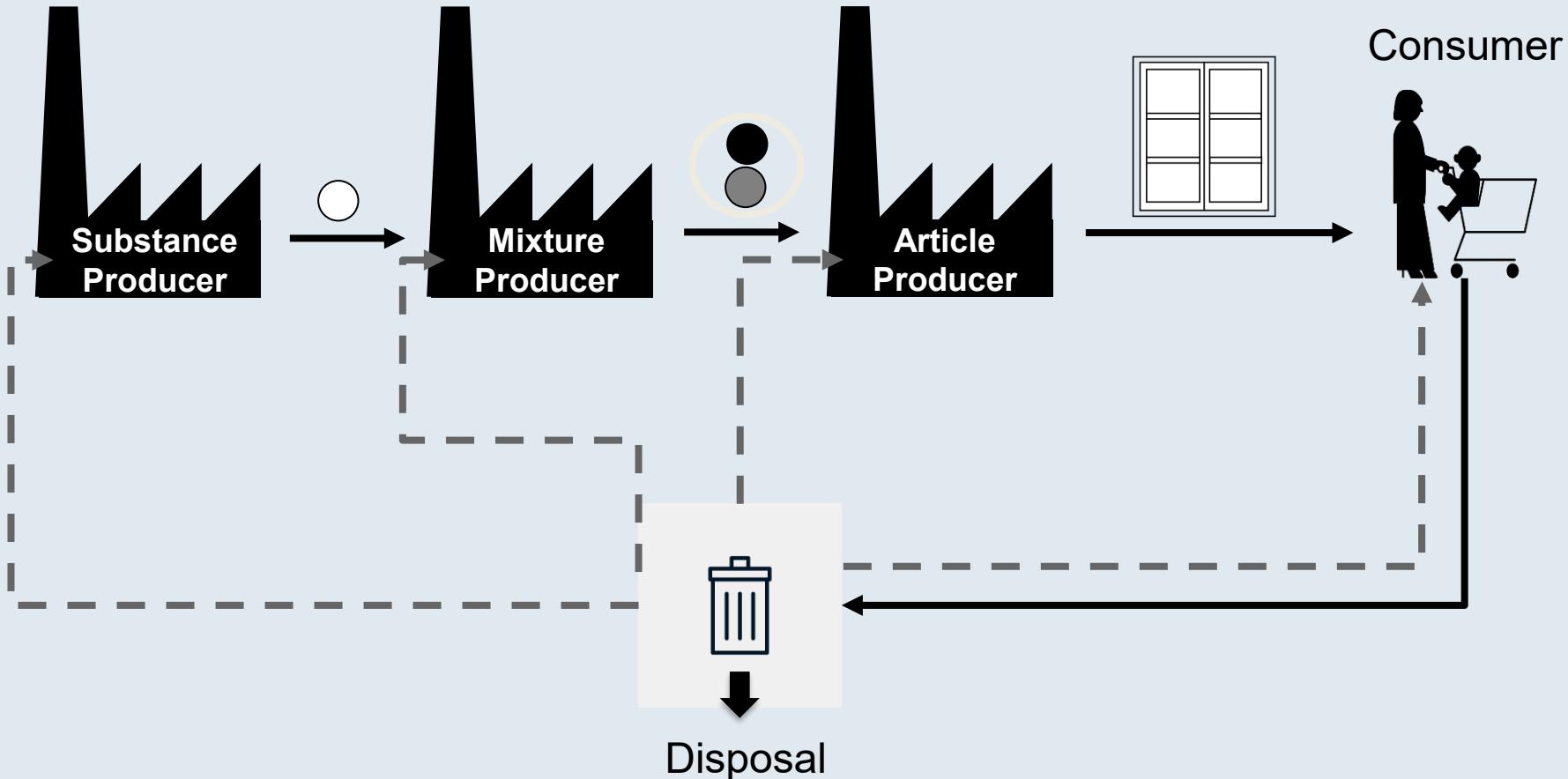
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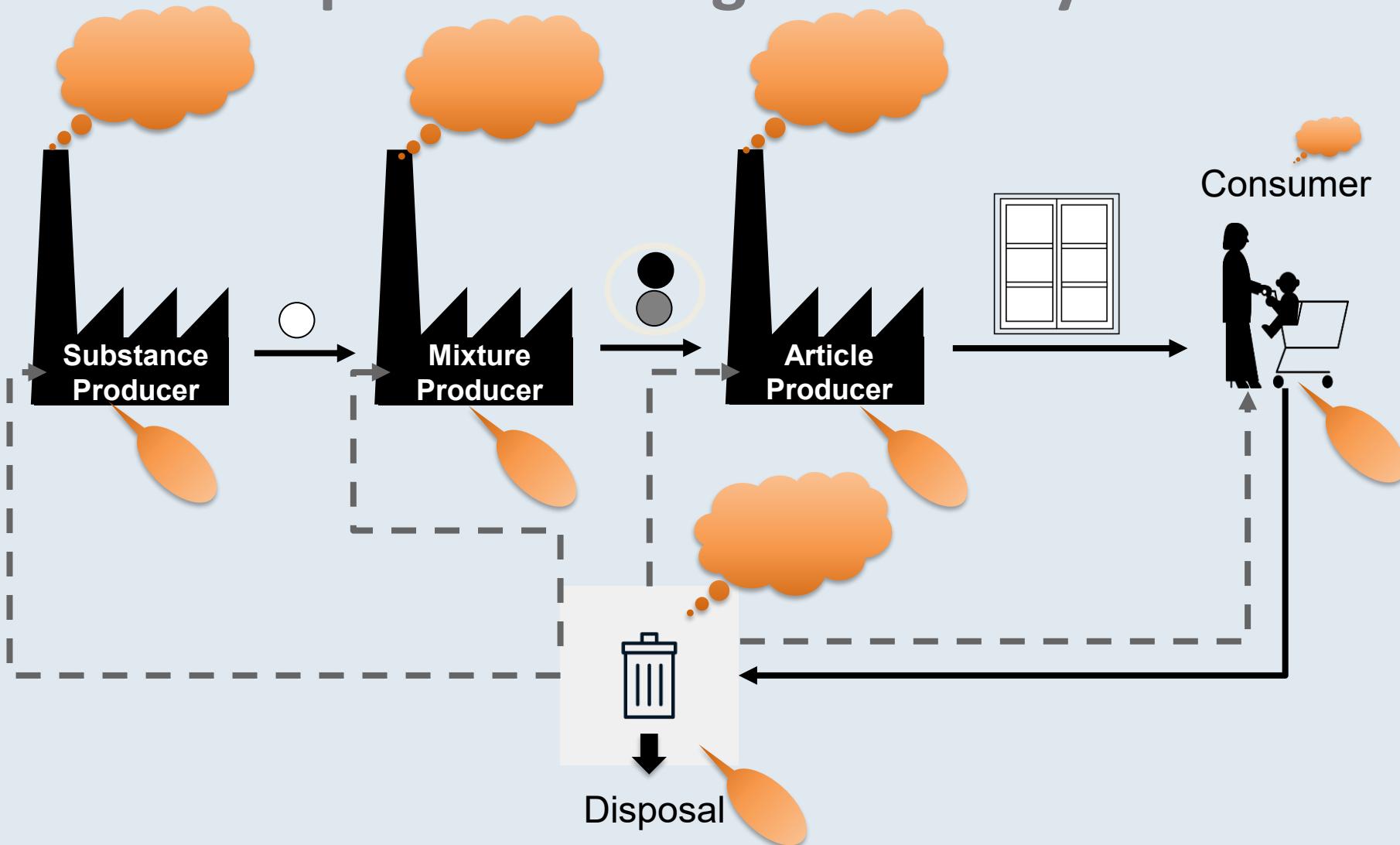
Hazard - Effect Threshold



The Life Cycle of a Chemical



Exposures along the Life Cycle



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Aim and approach of chemicals risk management

- **Prevent risks** from the use of chemicals
- **Core activities** of chemicals risk management
 - **Identify risks** from the use of a chemical along its lifecycle
 - **Identify options** to minimize the risks and
 - **Implement** the most appropriate measure
 - **Check** if measures are (sufficiently) effective



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Why chemicals should be integrated into corporate management approaches

- **Ensures sustainable operation of the enterprise**
 - Compliance
 - Competitiveness and cost control
 - Impact reduction
 - Safer material cycles



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Compliance

- **Know what you use for what**
 - Authorisation to use chemicals
 - Restrictions in products chemicals are integrated into
 - Communication requirements, including future DPP
 - Reporting/notification
 - Foresee future legal developments and ensure supplies – market of own product



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Competitiveness and cost control

- **Be at the forefront for safe products**
 - Product safety as a marketing opportunity
 - Know priorities in product development
 - Reduce costs in chemicals handling
 - Avoid (future) scandals and/or even litigation cases



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Impact reduction, safer materials

- **Minimize chemical risks to human health, the environment and the circular economy**
 - Substitution / elimination
 - Emission control
 - (exposure controls)



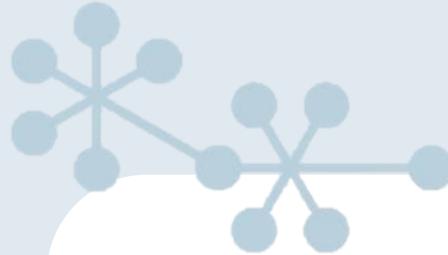
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Entry point: significant environmental aspect...

- Why are chemicals not yet routinely a part of environmental management systems?
- They are not considered as “significant”
 - Not routinely assessed? Not considered in the past, too complex to touch?
 - (Perceived) lack of capacities and competences
 - Lack of ideas on how to approach? One chemical is seldom “the” problem?
 - Feeling that there are no alternatives / improvement potentials?
 - “Competition for significance” is lost to other (known/traditioned) aspects?
 - Lack of knowledge about the lifecycle?



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Thank you for your attention!



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