

How to address systemic health effects with non-animal methods? Gaps, overlaps & research needs

Elisabet Berggren, Joint Research Centre, European Commission Workshop on the Commission roadmap towards phasing out animal testing for chemical safety assessments, Brussels, 11-12 December 2023



Joint Research Centre Our purpose



The JRC provides independent, evidence-based knowledge and science, supporting EU policies to positively impact society.











Directive 2010/63/EU on the protection of animals used for scientific purposes



- research & evaluation
- validation
- dissemination
- promotion





THE ECOSYSTEM OF CHEMICALS LEGISLATION

Vertical legislation:

Plant Protection Products

Biocides

Cosmetics

Human Medicines

Veterinary Medicines

Horizontal legislation:

CLP - all chemicals on the market (no information requirements)

REACH

Registration & Evaluation > 1 tonnes
(information on systemic health effects +
chemical safety report > 10 tonnes)
Authorisation & Restriction based on concern

Downstream legislation

GLOBALLY HARMONISED SYSTEM FOR CLASSIFICATION & LABELLING IMPLEMENTED THROUGH THE CLP REGULATION



- acute toxicity
- carcinogenicity
- mutagenicity
- reproductive toxicity
- target organ toxicity
- endocrine disruption
- immunotoxicity
- neurotoxicity



Substances identified as endocrine disruptors at EU level*

(complete list 108 substances)

25 substances with ED Health effects:

11 substances harmonised classified Repr. 1b

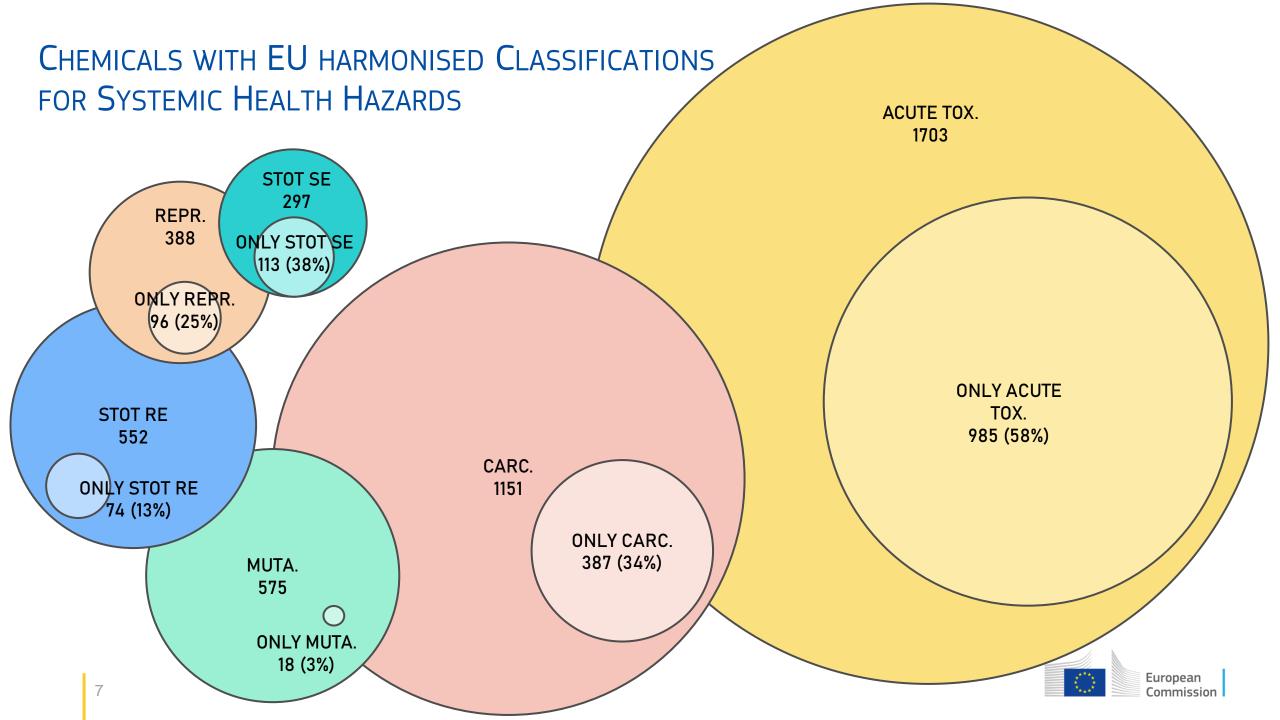
1 substance harmonised classified STOT RE 1

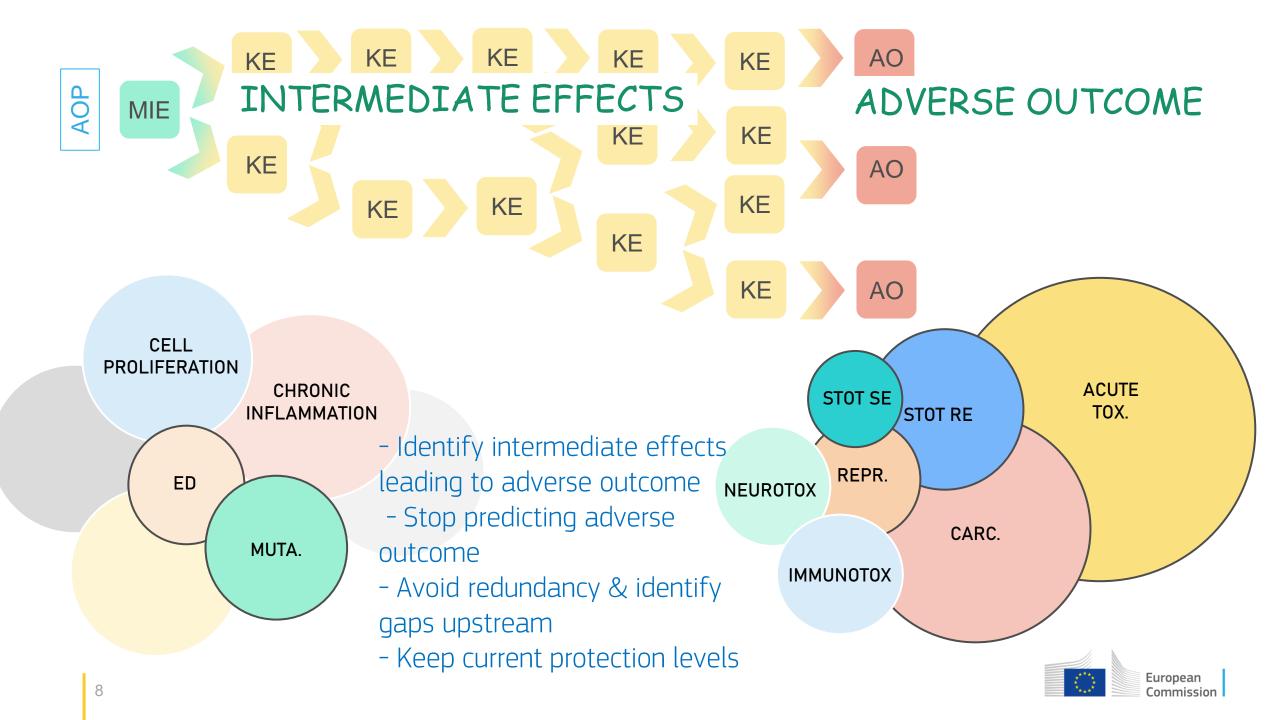
1 substance harmonised classified Asp. Tox. 1

1 substance harmonised classified Aquatic acute & chronic 1, but without health class

11 substances without harmonised classification,
9 with similar structure to other EDs on the list + 2 REACH registered substances with no self-classification





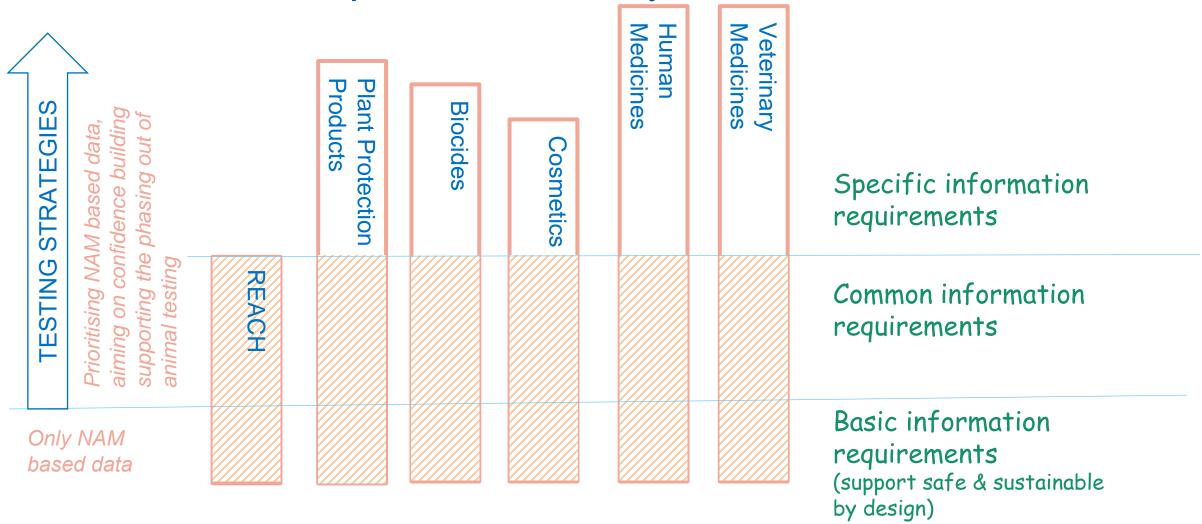


Information Requirements for Systemic Health Effects

REACH	Plant Protection Products	Biocides	Cosmetics	Human Medicines	Veterinary Medicines	Specific information requirements
						Common information requirements (One Substance - One Assesment)



Information Requirements for Systemic Health Effects





Thank you





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Session 2: How to replace animal testing for the concern of systemic human health effects?							
Introductory presentation: How to address systemic health effects with non-animal methods? - Gaps, overlaps and research needs	Elisabet Berggren (EU Commission, JRC)						
A national risk assessor's perspective to move towards the assessment of systemic health effects using non-animal methods	Christophe Rousselle (ANSES, France)						
How are human health systemic effects covered when animal testing is not allowed?	Qasim Chaudhry (SCCS) (online)						
What does it take to start reducing systemic animal testing now, and to phase it out soon?	Heli Hollnagel (CEFIC LRI)						
Paving the way towards a One-Health approach to chemical risk assessment	Julia Baines (PETA)						
An initiative towards a future solution: the EPAA Designathon	Carl Westmoreland (EPAA)						
Panel discussion							

European Commission