



EDC-MixRisk
safe chemicals for future generations

EDC-MixRisk

“Integrating Epidemiology and Experimental Biology to Improve Risk Assessment of Exposure to Mixtures of Endocrine Disruptive Compounds”



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 634880.

EDC research in a global perspective

- A heated debate on the occurrence of EDCs effects
- Some 25.000 - 30.000 original scientific articles on EDC* or endocrine disrupt*
- Regulatory work in progress in EU and globally - UNEP, WHO, OECD
- Awareness raising efforts within UNEP, SAICM, WHO; Test development, OECD

Key concern related to EDCs

- Many more potential EDCs as experimentally indicated
- Many more hormones than yet addressed in research
- Mixture effects yet poorly understood and researched
- Early life exposure of particular concern
- Low dose effects and non-monotonic dose response
- Urgent needs for regulatory actions on EDCs

... that's where EDC-MixRisk fits in!

Long reach goal EDC-MixRisk

*“To promote safer use of chemicals for the
next generation.”*

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- Karlstad University
- Gothenburg University
- Lund University
- Stockholm University
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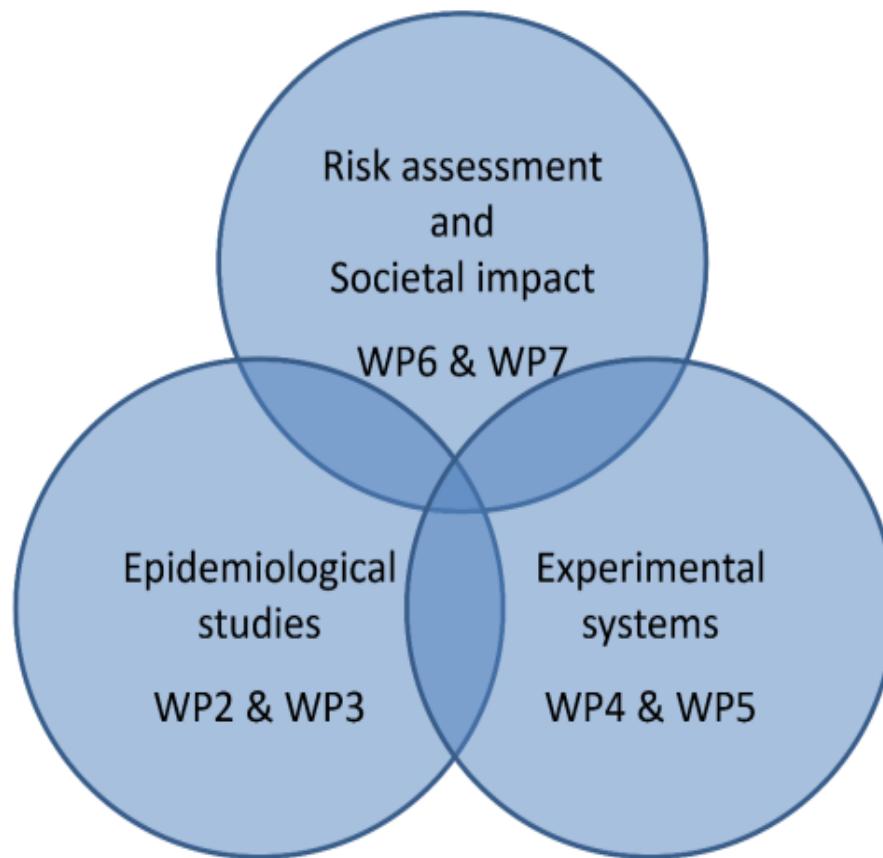
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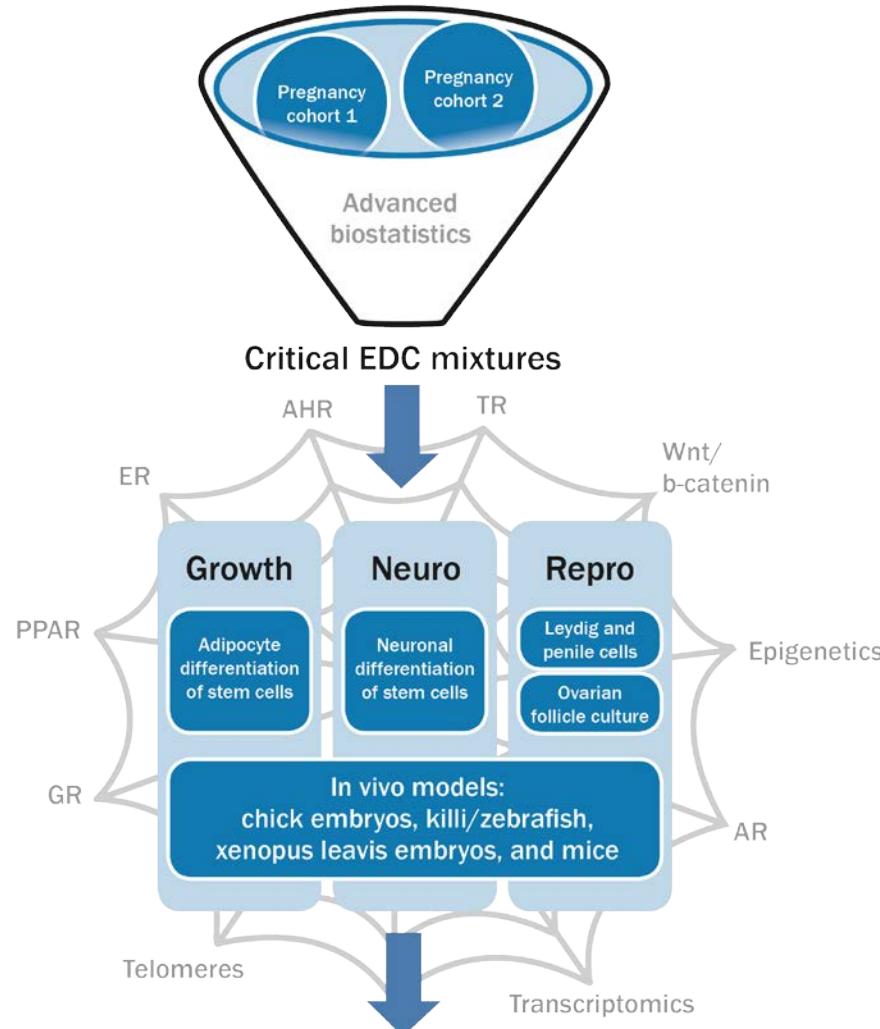
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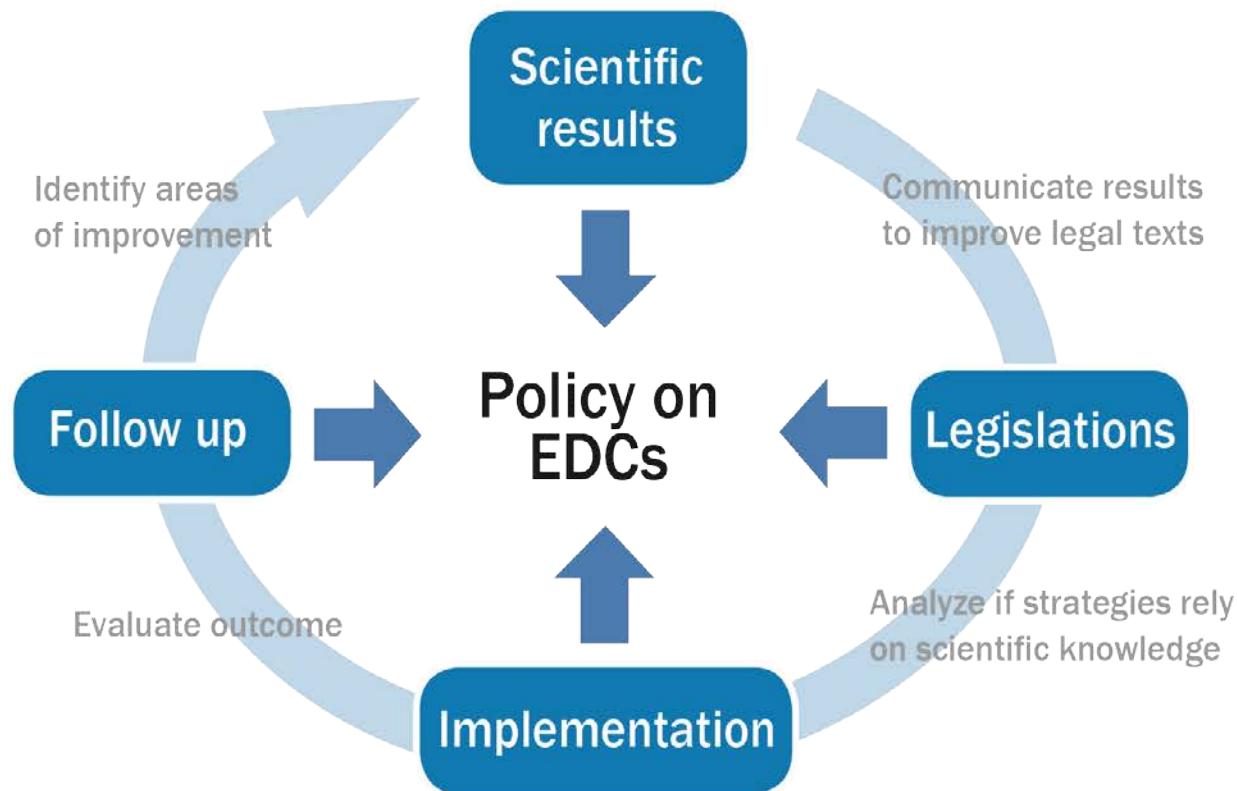
The EDC-MixRisk mixture



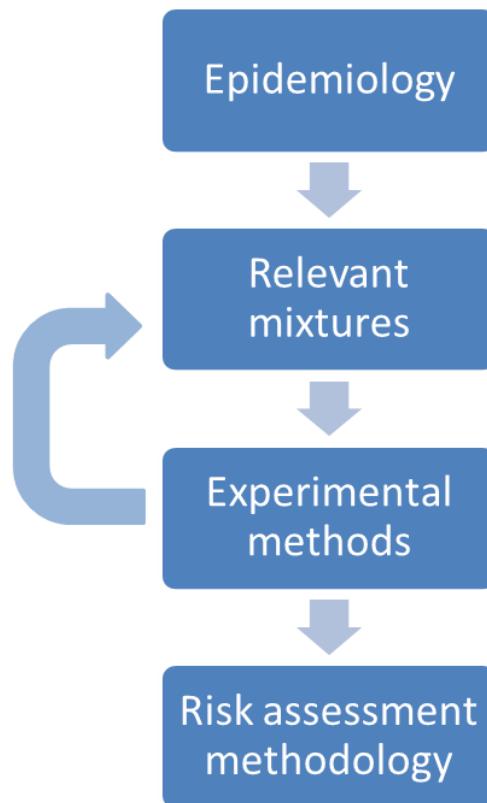
Experimental systems



Regulatory perspective



Scientific project work flow:



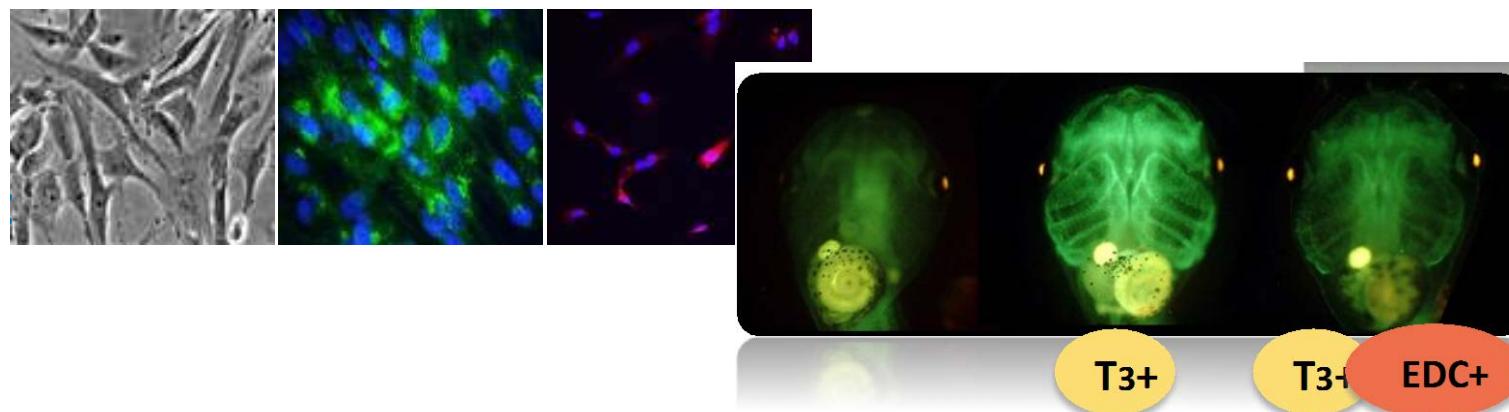
EDC-MixRisk will:

1. Identify EDC mixtures with adverse health outcomes in two pregnancy cohort studies within: growth and metabolism, neurodevelopment and sexual development



EDC-MixRisk will:

2. Identify molecular mechanisms underlying EDC exposure and adverse health outcomes using experimental animal and cell models.



EDC-MixRisk will:

3: Develop an approach for evaluating, integrating and synthesizing complex datasets for EDCs and mixtures.

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Altogether EDC-MixRisk will lead to better risk management!

Thank you!

More information: www.edcmixrisk.org

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