

How to integrate mechanistic ecotoxicology and ecosystem services into the next generation ERA framework?

Workshop on experiences from the European Marie-Skłodowska Curie training network PRORISK (<https://prorisk-h2020.eu/>)



Dates: October 2023, 3rd (15:00-18:00 CEST) – 4th (9:30-12:30 CEST)

Format: HYBRID

- **On site** – Campus of Vrije Universiteit Amsterdam, NL; O2 building (building No. 1108)
 - <https://vu.nl/en/about-vu/more-about/route-description>
- **Online** - Link for online participation will be distributed before the workshop

Background and objectives

The Environmental Risk Assessment (ERA) is nowadays rapidly changing from relying on simplified descriptive laboratory tests towards **incorporating mechanistic, ecological and socio-economic process information**. The PRORISK network (<https://prorisk-h2020.eu/>) created a unique interdisciplinary training platform for 15 Early Stage Researchers (ESRs) - doctoral students - who worked together during 2020-2023 on the advancement of current ERA. The PRORISK ESRs integrated data from their research – from chemical exposures, ecotoxicological experiments and trait-based studies towards ecosystem services and socio-economical valuation – to develop case studies that will be presented and discussed with stakeholders.

The objectives of the PRORISK workshop are:

- to **present the outcomes of the two PRORISK case studies** addressing recreational fishery and crop productivity selected as model ecosystem services
- to **discuss with stakeholders** lessons learned and gaps identified and **collect feedback and suggestions** on the next steps towards the next generation ERA implementation



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Workshop outline



Keynote lecture: Dr. Dan Villeneuve, US EPA

Combining new approach methodologies and adverse outcome pathways for ecological risk-based screening and prioritization

Presentation by PRORISK doctoral students

<https://prorisk-h2020.eu/>

Integrative case studies on ecosystem services & the next generation ERA framework



Invited presentations by stakeholders

Domenica Auteri – EFSA, Italy

Bruno Campos – Unilever, UK

Leo Posthuma – RIVM, Netherlands

Discussions with stakeholder panel

Heini Ahtiainen – ECHA, FI

Dave Spurgeon - UKCEH, UK

Magdalini Sachana – OECD, France

Katie Coady – Bayer, USA

Mira Petrovic – ICRA, Spain

Dimitrios Karpoyzas - University of Thessaly, Greece

Anja Coors - ECT Oekotoxikologie GmbH, Germany

Other workshop participants & stakeholders

PRORISK doctoral students, early stage researchers (ESRs) <https://prorisk-h2020.eu/>

Yang, Kelsey, Chander, Simon, Diana, Amina, Audrey, Niamh, Liyan, Saúl, Nuria, Susanna, Elvia, Susan

PRORISK experts and supervisors

Kees van Gestel, Marja Lamoree, Pim Leonards,

Pieter van Beukering (VU Amsterdam; NL)

Martin Holmstrup, Stine Slotsbo (Aarhus Uni; DK)

Helena Guasch (CSIC Blanes; ESP)

Lorraine Maltby (University of Sheffield; UK)

Knut Erik Tollefsen (NIVA; NO)

Ludek Blaha, Klara Hilscherova (RECETOX; CZ)

Jaroslav Slobodnik (Environmental Institute; SK)

Registered external participants

Representatives of FAO, Bayer AG, Evonik Oxeno GmbH, Clariant, Dow, CEFIC, ICCS

Detailed Workshop agenda

3rd October 2023 (15:00-18:00 CEST)

- 15:00 Opening, PRORISK introduction, objectives of the workshop (Ludek Blaha)
- 15:30 **Keynote lecture: Dan Villeneuve** (US EPA, member of PRORISK Advisory Board)
- 16:15 Coffee/tea break
- 16:45 Presentation of PRORISK findings to stakeholders
 - o PRORISK Case studies (presentation by ESRs)
 - o Questions from PRORISK to stakeholders & plenary discussion (moderator: Lorraine Maltby)
- 18:00 End of the day

4th October 2023 (9:30-12:30 CEST)

- 09:30 Welcome day 2 (Luděk Bláha)
- 09:35 Presentations by stakeholders: Bruno Campos (Unilever), Domenica Auteri (EFSA), Leo Posthuma (RIVM)
- 10:30 Coffee/tea break
- 11:00 Discussion with stakeholders; answering questions, feedback (moderator: Kees van Gestel)
- 12:15 Wrapping up/end of stakeholder workshop (Ludek Blaha)