

BiTreatED

A belkendes szövege

Advanced bio-based solutions to monitor and mitigate hormonal risks of irrigation waters originating from manure separation technologies

Nature Based Solutions

Due to increasing water scarcity, it is important to use water sparingly and judiciously, including irrigation. Slurry can be reused with separation technologies, dividing the raw material into a liquid and a solid fraction for irrigation and soil fertilisation.

To ensure the safe and sustainable use of slurry-based liquid and solid fractions, the issue of hormonally active compounds should be managed with newly developed, efficient, bio-based technologies and simultaneously monitored with effect-based tools.

➔ Water4All Partnership

- is a funding programme for scientific research in freshwater;
- aims to tackle water challenges to face climate change;
- is co-funded by the European Union within the frame of the Horizon Europe programme
- The Aquatic Ecosystem Service call concentrates on water security on top of the objectives

➔ Get in Touch

Contact us with your questions, to support our stakeholder network, or sign up for our newsletter!

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Coordinator

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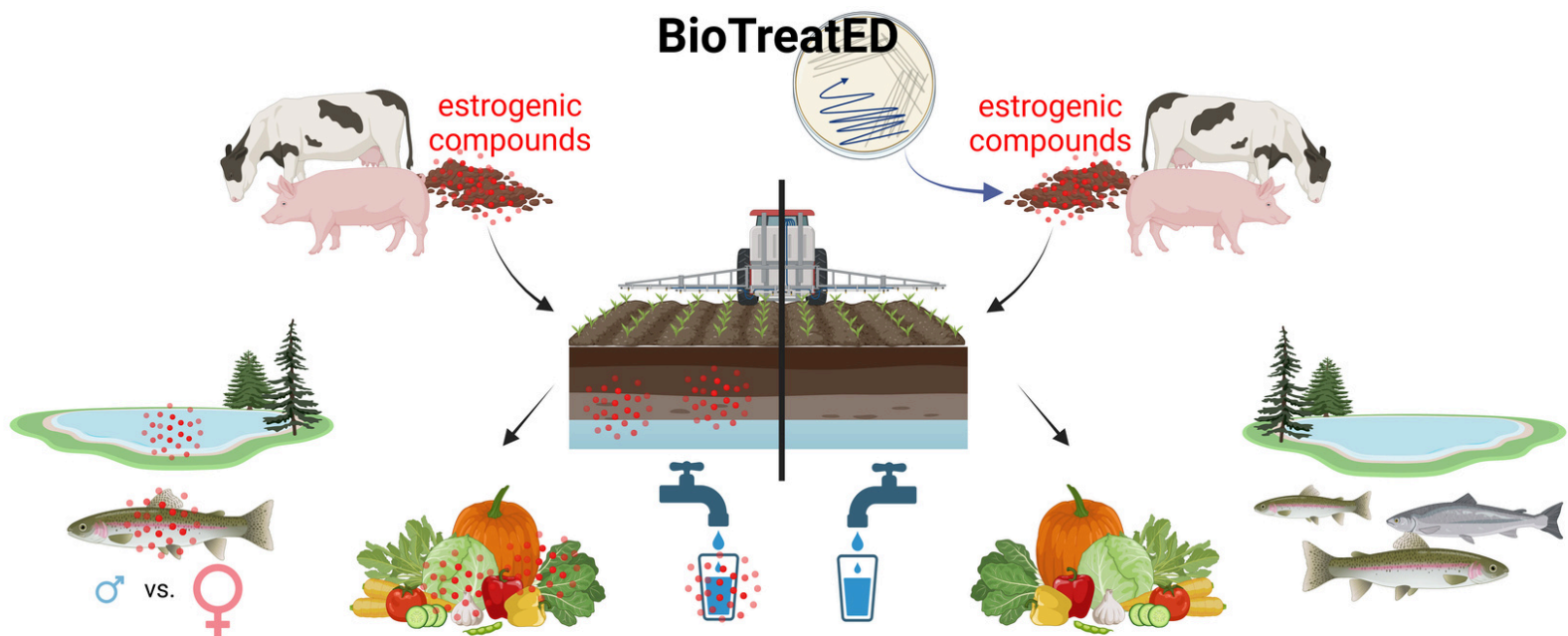
🌐 <https://water4all-biotreated.uni-mate.hu/en/>

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➔ Project Goals



Monitoring of hormonally active compounds of manure and their effects used in agriculture



Determining the fate of hormonally active compounds on irrigated lands and in groundwater under different flow and soil conditions.



Screening and selecting the optimal microbial candidates



Developing and validating bio-based methods for degrading and detoxifying hormonally active compounds



Stepwise assessing the targeted treatment efficiency through laboratory and field studies



Engage stakeholders and develop a network





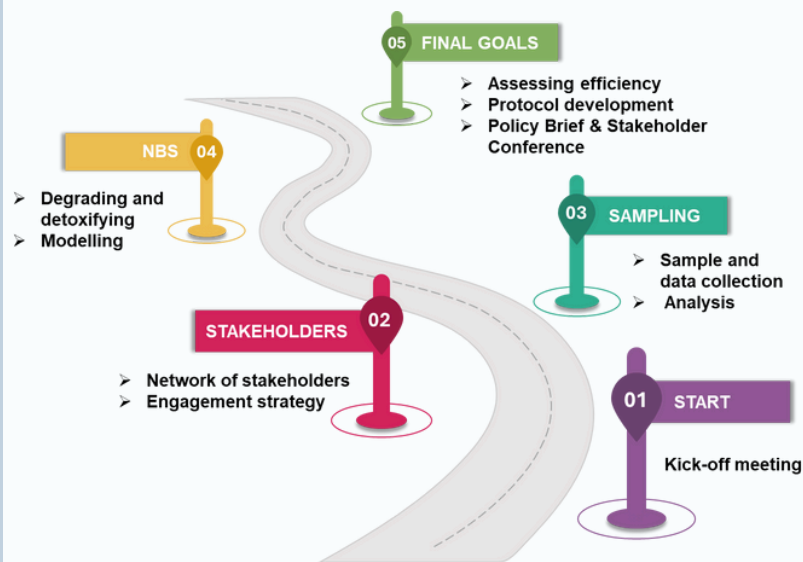
We are committed to preserving a clean, sustainable environment and protecting water resources!

Innovations which matters

Without appropriate treatment, chemical, biological, and hormonal contamination would pose significant anthropogenic pressure on the environment. Slurry contains several components that could negatively affect the environment and the exposed cultures if not handled appropriately.

BioTreatED provides a new concept for mitigating steroid hormones and hormonally active compounds in slurry-based separated fractions by applying a hormone-degrading microbial consortium and a comprehensive toolkit for monitoring agri- and aquatic ecosystems.

Roadmap



Facts

- Duration: 01/03/2025 – 28/02/2028
- Overall budget: 1.272.906 EUR
- 7 partners from 6 countries



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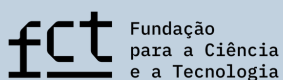
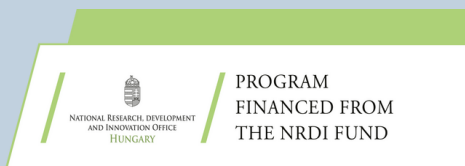




Implementing partners



Funding organisations



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