

Innovative tools to control organic matter and disinfection byproducts in drinking water



The challenges

There is a legal and sanitary need for water disinfection. Disinfection by-products (DBPs) are the most abundant contaminants in drinking water when water is chemically disinfected. Unintentional formation of DBPs through interactions of dissolved organic matter with chemical reagents are emerging as chemical risks that affect human health. Yet, investigation of DBPs is not sufficiently addressed at the European research level. Additionally, climate change and increased pollution in catchments exacerbate the levels of DBP precursors and consequentially DBP formation.



What will into DBP accomplish?

- Protect catchments and minimize human exposure to disinfection by-products under current and future climates, without compromising disinfection efficacy.
- Integrate a real-time control of source, product, and distributed water to ensure that the safety is aligned with the EU Green Deal's zero pollution ambition.
- Provide a renewed perspective of drinking water surveillance from source to tap with the smart integration of forecasting, flexible tools, and transdisciplinary solutions
- Support decision-making and governance.
- Increase system resilience in the wake of emerging challenges.
- Increase trust of consumers in tap water and reduce bottle water consumption.



4 Case Studies



Case Study 1 • Limassol (Cyprus)



Case Study 2Parcelona (Spain)



Case Study 3

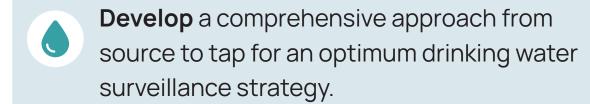
Madrid (Spain)

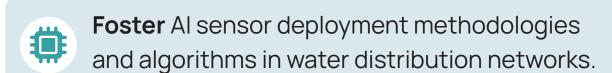


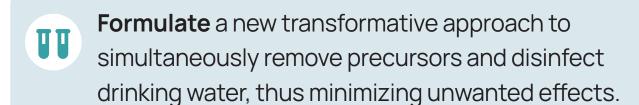
Case Study 4 County Mayo (Ireland)

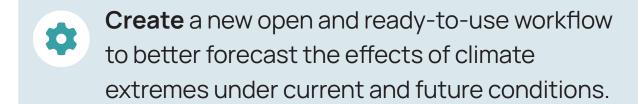
intoDBP methodology

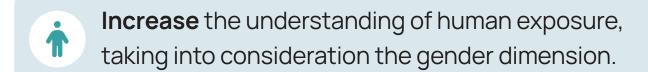
To accomplish its objectives, intoDBP will:

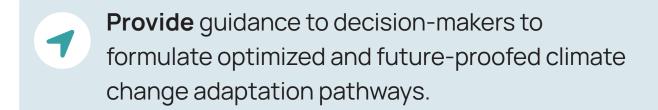












Compile and present new business opportunities in the context of dissolved organic matter and disinfection by-products monitoring, modelling and control



About intoDBP



Start date: 01 December 2022



Duration: 48 months



Budget: 3,994,707 €



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Contact Us



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