

PROMISCES

Preventing Recalcitrant Organic Mobile Industrial chemicals for Circular Economy in the Soil-sediment-water system

Projektbeginn:

November 2021

Informationen zum Projekt

[Homepage des Projektes](#)

The EU-project PROMISCES will support the transition towards a circular economy by providing innovative technologies to monitor, prevent and mitigate chemical pollution in the environment (water, soil and sediment). The project will particularly focus on per- and polyfluoroalkyl substances (PFAS) – so-called forever chemicals, which are persistent, highly mobile, and potentially toxic (PM(T)), and have been found to accumulate in the human body and the environment. To enhance understanding of the origins, fate, and transport pathways of industrial PM(T)s and PFAS, PROMISCES will develop and implement analytical and toxicological methods and derive monitoring strategies by focusing on five circular economy routes: • Semi-closed water cycle for drinking water supply • Wastewater reuse for irrigation in agriculture • Nutrient and energy recovery from treated sludge for fertilisers • Material recovery from dredged sediment for eco-materials • Groundwater and soil remediation to protect the water cycle In line with these routes, seven case studies across Europe will explore solutions for zero pollution under real-life conditions and demonstrate cost-efficient and sustainable technologies for the removal of PM substances from different media such as drinking water, wastewater, soil, dredged sediment). PROMISCES' results will be integrated in a decision support framework, as well as assessment and regulatory tools for improving human health protection related to resource recovery and use. Twenty-seven partners from nine countries join forces to overcome bottlenecks in implementing the Zero pollution and Circular economy action plans of the European Green Deal and support a pollution-free circular economy.

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