

THE PROBLEM

The use of reclaimed wastewater in agriculture shows many benefits, including the supply of water and nutrients for the cultivation of crops, ensuring food supply to cities and reducing the pressure on available freshwater resources. Despite this, there are safety concerns regarding the use of reclaimed wastewater for crop irrigation, especially related to the contamination of arable land with organic pollutants.

The new technology is based on:



the improvement of soil functions leading to an *in-situ* removal and detoxification from organic pollutants introduced by waste



new production procedures for **safe soil amendments** based on sewage sludge, through biochar addition and composting



a **clear discrimination of non-bioavailable organic pollutants** introduced into soil that do not constitute a risk for agriculture





THE SOLUTION



THE BENEFIT

THE SOLUTION

RESIDUE project tackles this challenge by developing an innovative technology that significantly reduces risks of transferring organic contaminants into the agricultural products, improving their safety. RESIDUE uses locally available resources and ensures the easy applicability of the new technique in common agricultural practice.

RESIDUE project will promote the development of a framework for the safe use of wastewater for irrigation, enabling:



a more pragmatic approach to water management under water scarcity



cost reductions in water treatment through residue revalorization and reconsideration of wastewater depuration targets



a more effective and sustainable agriculture

Budget: € 1.363.729,00 Funding: € 1.111.488,00 Duration: 36 months

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