



Residue

Risk reduction of chemical residues in soils and crops-impact due to wastewater used for irrigation

RECLAIMED WASTEWATER USE IN AGRICULTURE

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.

MISSION

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The RESIDUE project is aimed at improving the safety of agricultural products grown under the influence of waste materials used for irrigation and fertilization 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 practices.

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

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

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

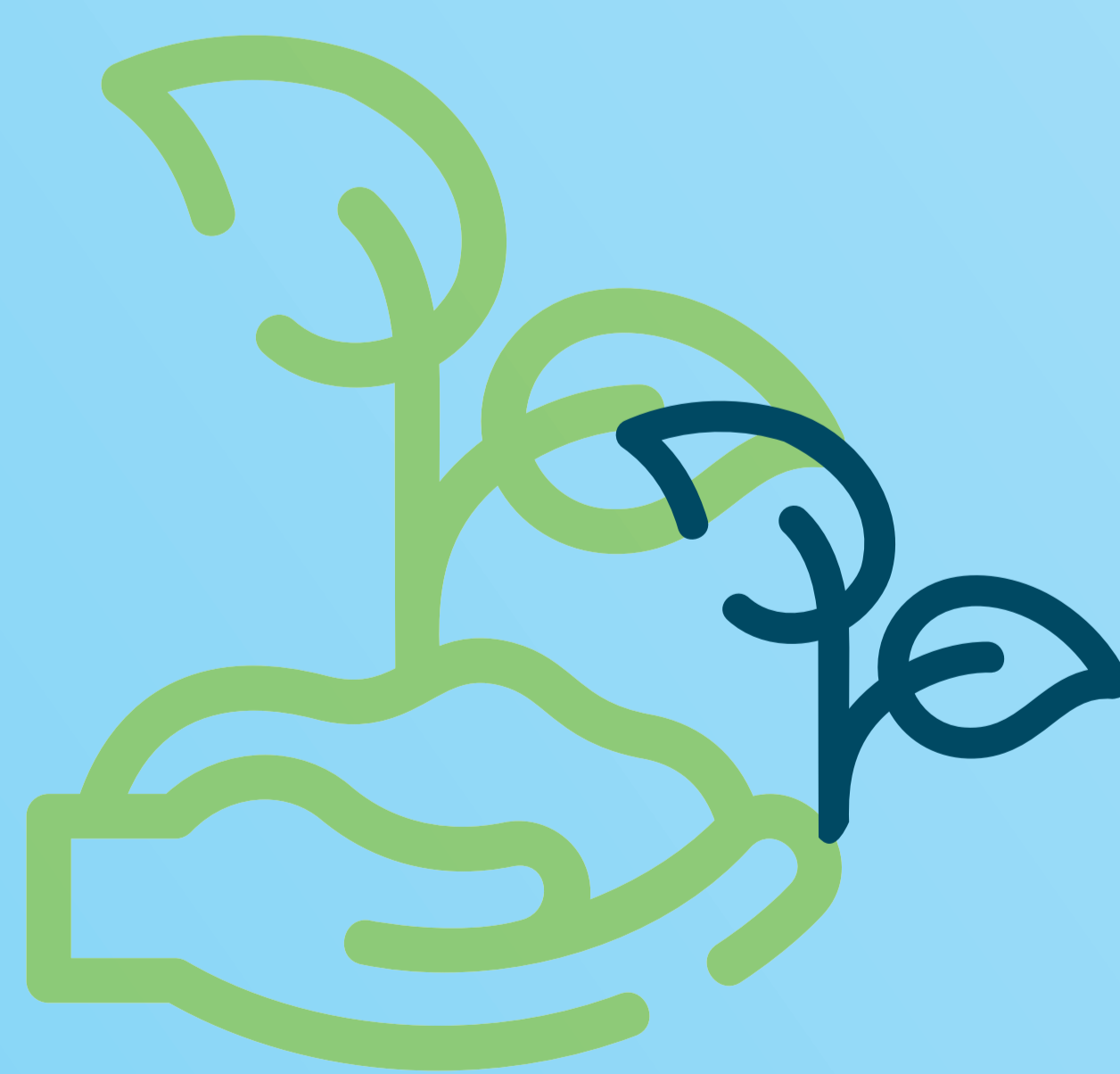
THE BENEFIT



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**

THE BENEFIT

The project is coordinated by Fraunhofer IME in collaboration with Phytor Jerusalem, the Hebrew University of Jerusalem, Consejo Superior de Investigaciones Científicas – CSIC, Freie Universität Berlin and Consorzio Italbiotec



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