



## Innovative Water Reuse System for Sustainable Vegetable Production at #VertiFarm2024

### Description

At #VertiFarm2024, the team from **ELGO-DIMITRA's Institute of Plant Breeding and Genetic Resources** presented a pioneering system designed to promote sustainability in vegetable production through effective water reuse practices. Led by Dr. Afroditi Tsampalla and supported by researchers Georgios Kelesidis, Maria Ravani, Ioanna Chatzigeorgiou, and G.K. Ntinis, the project focuses on integrating treated water into vegetable cultivation in a way that conserves resources while maintaining crop quality and safety.




# An innovative system of water reuse practices for the promotion of sustainability in vegetable production

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The system uses innovative methods to recycle water safely, incorporating advanced filtration and nutrient management to ensure that the reused water supports healthy plant growth. By tailoring the water's nutrient profile, the system provides plants with essential resources, reducing the need for synthetic fertilizers and lowering the environmental footprint of vegetable farming.

The team's findings highlighted that this approach not only conserves water but also promotes a circular agricultural model where nutrients are reused, aligning with sustainable agriculture goals. The methodology showcased at the conference demonstrated promising results in field trials, where vegetable yields were maintained or improved without compromising soil or plant health.

This innovative approach to water reuse sparked enthusiastic discussions at Palazzo Re Enzo in Bologna, as participants explored the potential applications of these practices in regions facing water scarcity. The audience left with a renewed understanding of how circular water systems can transform agriculture, making it more resilient and sustainable.

## Category

1. Senza categoria

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