



Sapienza University brings PRIMA-SAFE modelling expertise to Colombia's IV International Congress on Agrarian & Environmental Sciences

## Description



From **23 to 25 April 2025** the **Universidad Francisco de Paula Santander (UFPS)** in Cúcuta, Colombia, hosted the **IV Congreso Internacional de la Facultad de Ciencias Agrarias y del Ambiente**

under the banner “*Oportunidades y desafíos para un futuro sostenible*”.

More than **60 peer-reviewed papers and posters**—including nine international contributions—were presented across agronomy, environmental engineering and biotechnology sessions.

## Why PRIMA-SAFE was invited

Latin America’s tropical dry zones face freshwater shortages and rising irrigation demand—challenges that mirror those of the Mediterranean. The organisers therefore asked the **PRIMA-SAFE** consortium to showcase its integrated approach to **safe wastewater reuse** in agriculture.

The congress, which focused on “Opportunities and Challenges for a Sustainable Future,” gathered local and international experts to discuss sustainability in agriculture and the environment. Sapienza was invited to share insights from PRIMA-SAFE, particularly its work on modelling, optimisation, and the techno-economic evaluation of safe wastewater reuse in agriculture. In their presentation, the Sapienza team highlighted how process simulations and life-cycle assessments can guide decisions around water reuse, ensuring both environmental safety and cost-effectiveness. They also introduced decision-support tools developed within PRIMA-SAFE that help farmers and stakeholders choose suitable treatment systems based on risk and affordability. Sapienza’s participation opened avenues for collaboration with Latin American researchers facing similar water scarcity challenges, reinforcing the relevance and adaptability of PRIMA-SAFE’s approach beyond the Mediterranean context.

## Category

1. Senza categoria

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