



INNOVATION DAYS

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In the past, my research and interests were focused on Biometeorology and Climate Change, with an emphasis on predicting and reconstructing precipitation patterns in multi-annual time series. I developed a 3-D phase space model based on 120 years of meteorological measurements. This model enabled the creation of an algorithm for reconstructing biometeorological conditions for locations without historical measurements.

I participated in the H2020 WATERAGRI project, which aimed to enhance water usage efficiency in agriculture while mitigating its negative impact on the climate. Tests were conducted in the field across 11 locations in 9 different countries.

Currently, I am engaged in the SUNIMO project, focusing on sustainable nitrogen fertilization for agricultural crops. This project strongly emphasizes reducing nitrogen migration from soil to water bodies by enhancing fertilization efficiency. Additionally, I am involved in creating a European database for Agricultural management using AI, as part of the FARMWISE project under HORIZON EUROPE. The aim of this project is to develop a tool that assists decision-makers and farmers in selecting activities that improve water resources on local, national, and global scales across different time horizons (2030, 2050, and 2100).