PestNu

PestNu aims to revolutionize novel, digital and space-based technologies (DST) with agro-ecological and organic practices (AOP) in circular food production systems, such as aquaponics, hydroponic greenhouses as well as in open-field vegetable cultivation. The demonstration sites are located at the University of Thessaly in Greece, Tilamur and CDTA- El Mirador in Spain. PestNus goals are to decrease the dependency on hazardous pesticides, reduce the loss of nutrients from fertilisers, as well as to provide safe, nutritious and affordable food and contributing to the overall sustainability of food systems. Among the digital innovations are an AI robotic traps for real time pest monitoring, an autonomous mobile robot for pesticide monitoring and 3D spot spraying, Agroradar AI algorithms to map nutrients and pests using Copernicus data/services, the on-site production of biofertilisers from agricultural waste waters through an automated drainage recycling system, a novel foliar biopesticide with biostimulant effect and advanced nutritional programs for organic farming. These systemic approaches are performed under a strong collaboration among the Farm to Fork stakeholders and European Commission services.

#PESTICIDEREDUCTION #DIGITALTECHNOLOGIES #AGROECOLOGY

VISIT THE PESTNU WEBSITE HERE.