



## Green Deal Horizon 2020 LC-GD-6-1-2020

Type of Action: Innovation Action

Project Consortium: 20 Partners

Project Budget: 7.438.050,100 €

Project Duration: 36 Months

Start Date: 01/10/2021

End Date: 31/09/2024

**PestNu - "Field -testing and demonstration of Digital and Space based technologies with Agro-ecological and Organic practices in systemic innovation"**

### The Concept.

PestNU brings under systemic innovation novel Digital and Space-based Technologies (DST) combined with Agro-ecological and Organic practices (AOP) already at TRL5, which will be further deployed, upscaled, field-tested and demonstrated to TRL7, in novel circular economy food production systems, such as aquaponics and circular horticulture systems as closed/semi-closed hydroponic greenhouses, and in open-field vegetable cultivation, under different conditions, soils and crops (tomato, cucumber, pepper).

### The Impact.

- Reduction of pesticides and fertilisers use to **50%** by 2030 - with DST & AOP
- Reduction of overall pesticides use and loss of nutrients **100%** (full organic) - using circular nutrient management systems combined with precision farming
- Food yield improvement **> 30%**
- > 150** IAB members along Farm to Fork
- Reduction of production costs by at least **30%**
- Deliver healthy, nutritious, safe and affordable **food for all**
- > 20%** decrease in organic food price
- New ecotox pesticide catalog - enrichment Okotox - Index
- End User acceptance and satisfaction of DST and AOP **> 80%**
- Communication **> 5.000** potential stakeholders

### The Partners.

9 European Countries



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