

WP3: Replacement of contentious fertilizers and manures in plant production



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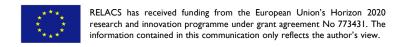


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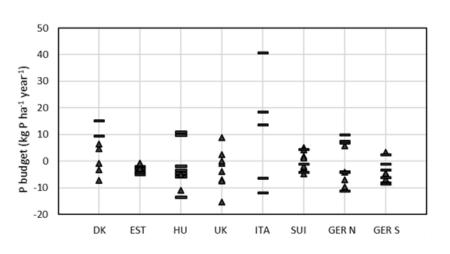
## **Objectives of WP3**

- 3.1: Document the current use of and needs for external nutrient inputs in five European case study regions
- 3.2: Evaluate technologies to recycle nutrients from waste streams with respect to quality and composition of the products, risk assessment, environmental impact, costs, acceptability and regulations.
- 3.3: **Develop a planning tool** to match available nutrient sources in six European case study regions with the need for nutrient inputs, including identification of not yet available but feasible nutrient recycling technologies and associated economic benefits.
- 3.4: Derive an **overall evaluation and recommendation** of recycling technologies acceptable for organic agriculture.





## Some key results



- Many organic farms with negative balances for P and K
- High reliance on BNF correlated with low output
- P and K budgets decrease with increasing reliance on BNF
- ⇒ Need to increase external inputs, mainly recycled fertilizers
- Modelling approach to assess effects on soil quality
- Webinar to gather knowledge on organic contaminants and discuss with stakeholders
- Planning tool to match nutrient demand with supply



