

WP6-TASKS 6.2 & 6.3

T6.2 Efficiency and resilience assessment at farm level

T6.3 Upscaling of efficiency and resilience analysis to community, regional, national and EU-level Murilo de Almeida Furtado^a; Frederic Ang^a; Miranda P.M. Meuwissen^a

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Objectives - Deliverables

D6.2 Report and open access paper on efficiency and resilience assessment at farm level.

Status: Paper under review.

D6.3 Report and open access paper on upscaling efficiency and resilience analysis to of community, regional, national and EU-level. Status: Regional/national (preliminary results) and national/community scale (in progress).

Data and Methods

D6.2

- FADN data for farm inputs and outputs
 - ->800k observations, >100k farms, 25 countries
 - -Years 2004 to 2017
- Farm-level efficiency and resilience
 - -Resilience measure exploring input-output relationships (production functions/frontier)

D6.3

- FBS data for farm inputs and outputs
 - >2.5k observations, >900 farms, England and Wales
 - Years 2015 to 2019
- To what extent can land reallocation improve fertiliser use and nitrogen balance at the aggregate level?

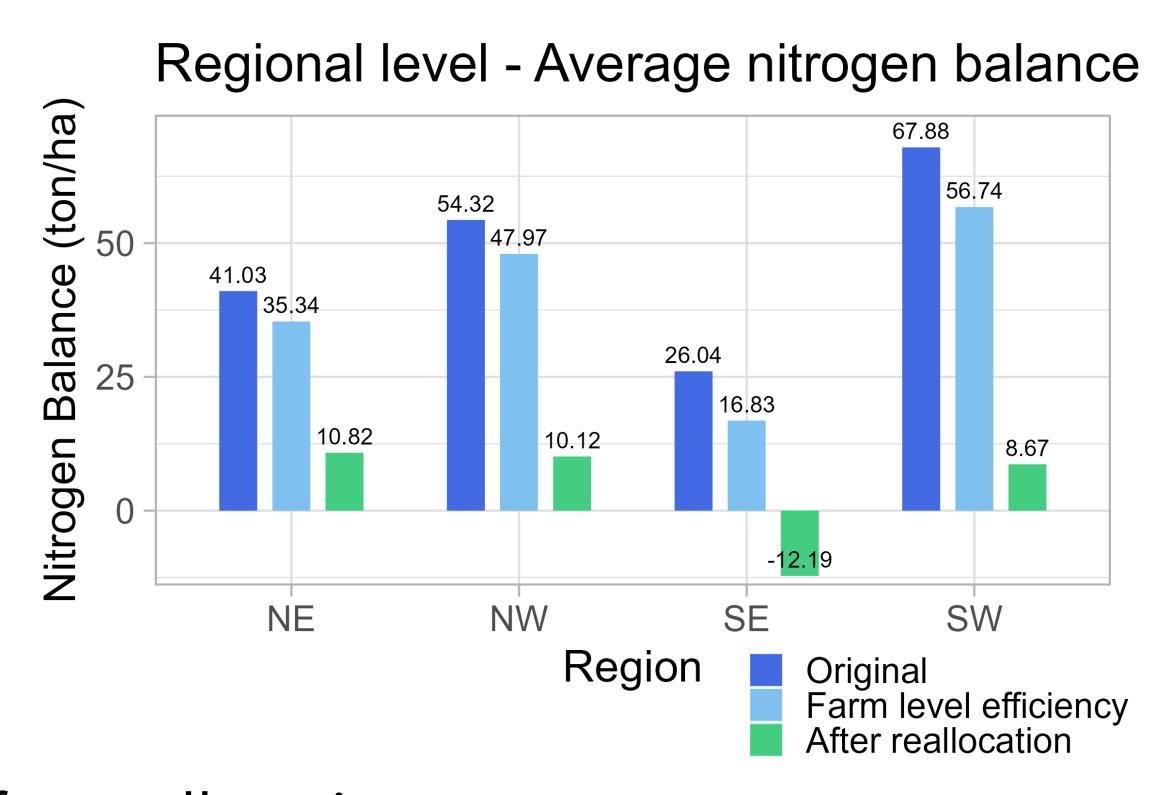
Results

D6.2

Open access paper (under review)

D6.3 – Preliminary results

Farm level hill diversity changes Before reallocation 0.3 After reallocation Density 5.0 0.1 0.0 Number of species



- After reallocation
 - similar reduction potential for fertilizers.
 - diversity also increases at the regional level











