CONTEXT PROFILE





FARMER Denis O Dea



INNOVATION GPS fertiliser spreader



MAIN DOMAIN OF THE INNOVATION Improvement of nutrient cycle



AGROCLIMATIC AREA Atlantic north



CLIMATE Moderate rainfall



MANAGEMENT Pasture dairy

SOIL TYPE

Loam



TECHNICAL Computer-based











FINANCE/INVESTMENT Low

MARKET Local-rural

SOCIAL Full-time farmer



CONTEXT PROFILE IRELAND

Case Study: IE_11	Agroclimatic Zone								
Item (Key Innovation Elements)	Alpine	Atlantic Central	Atlantic North	Atlantic South	Boreal	Continental North	Continental South	Mediterranean North	Mediterranean South
GPS on fertiliser spreader	+++	+++	+++	+++	+++	+++	+++	+++	+++

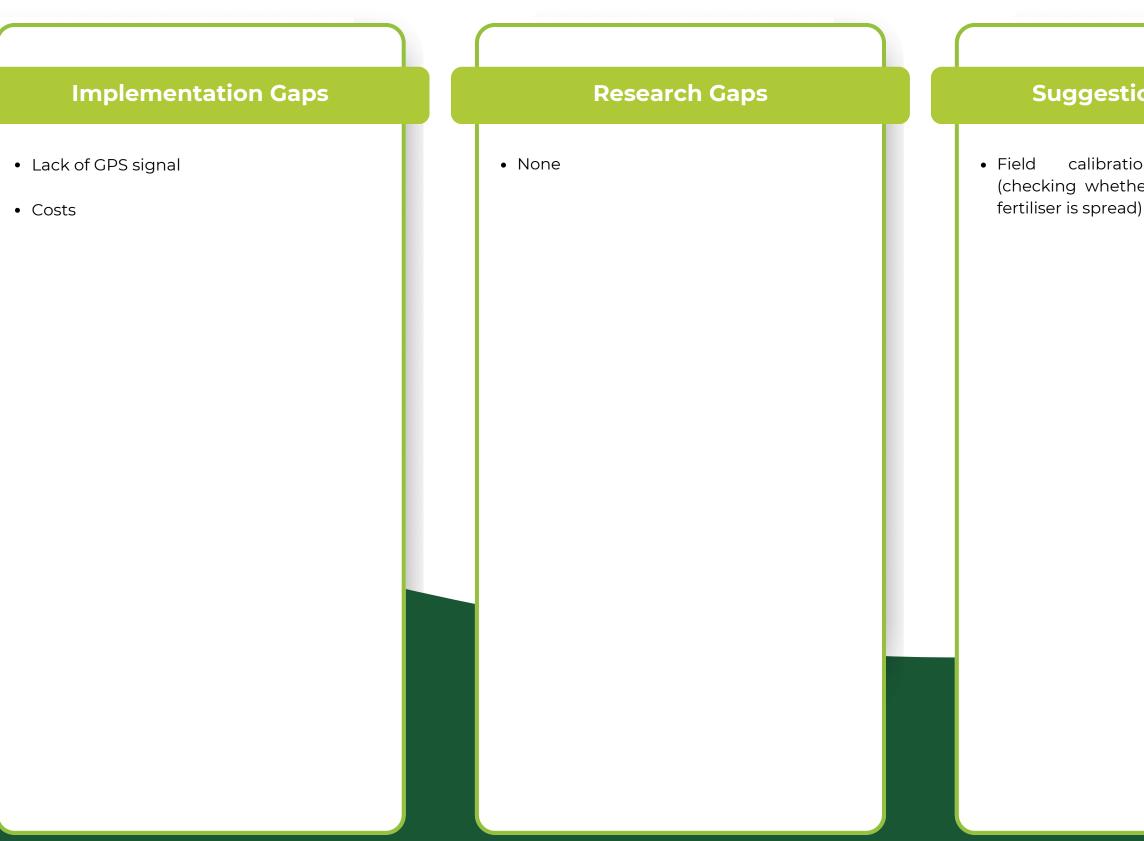


Generic information/not relevant



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Suggestions to Adapt

Field calibration is recommended (checking whether the correct amount of fertiliser is spread)

COST-BENEFIT ANALYSIS

INVESTMENT COSTS

Total initial investment costs at start up:

- Initial authorisation costs (e.g. sanitary, veterinary, etc.)
- Initial advisory costs
- Initial buildings and machineries
- Initial certification costs
- Initial working capital (personal qualification, marketing and promotion, etc.)

ON-GOING COSTS

ng advisory costs not applicable/not kno	
On-going certification costs	not applicable/not known
not applicable/no	
On-going working capital	not applicable/not known

BENEFITS RELATIVE TO ORIGINAL SYSTEM

• Economic

Reduction in energy consumption (electricity; fuel consumption)

Reduction in input use (fertilizers; pesticides; feed) etc.

Payback period

Product value added

Additional farm income through agroecological/agri-environmental payment schemes

• Environmental

Animal feed self-sufficiency increase

Biodiversity increase

Improved nitrogen cycling

Soil regeneration

Animal health and welfare improvement

• Social

Workload reduction

Engagement of young generation



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low
not applicable/not known
low
mid
not applicable/not known
low

mid
mid
mid
not applicable/not known
not applicable/not known

high
not applicable/not known
high
mid
not applicable/not known

not applicable/not known

mid

Literature

English

- <u>https://www.teagasc.ie/publications/2020/spread-accurately-and-evenly.php</u>
- <u>https://www.teagasc.ie/news--events/daily/grassland/what-is-a-gps-fertiliser-spreader.php</u>



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