CONTEXT PROFILE





FARMER Michael Doran



INNOVATION

Incorporating plantain in a grass white clover sward



MAIN DOMAIN OF THE INNOVATION Improvement of nutrient cycle



AGROCLIMATIC AREA Atlantic north



CLIMATE Moderate rainfall



SOIL TYPE Loam



MANAGEMENT Pasture dairy



TECHNICAL Computer-based











FINANCE/INVESTMENT

MARKET Local-rural

SOCIAL Full-time farmer



CONTEXT PROFILE IRELAND

Case Study: IE_15	Agroclimatic Zone								
Item (Key Innovation Elements)	Alpine	Atlantic Central	Atlantic North	Atlantic South	Boreal	Continental North	Continental South	Mediterranean North	Mediterranean South
Introducing plantain as a grazing crop, in mixture with clover and grass to increase soil fertility	++	+++	+++	+++	+++	+++	+++	++	++



Generic information/not relevant



Funded by the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission . Neither the European Union nor the European Commission can be held responsible for them.

Implementation Gaps

- Plant that prefer compact soils; No sandy soils
- Seed availability

Research Gaps

- No plantain, clover and ryegrass safe herbicides
- How to adapt in other conditions
- Genetic research about the plant

allow it



Funded by the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission . Neither the European Union nor the European Commission can be held responsible for them.

Suggestions to Adapt

• Use plantain where soil and precipitation

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

On-going advisory costs
On-going certification costs
On-going buildings and machinery costs
On-going working capital

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



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission . Neither the European Union nor the European Commission can be held responsible for them.

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

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

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

mid
mid
not applicable/not known
mid
mid

none or low

not applicable/not known

Literature

English

• <u>https://www.dairynz.co.nz/feed/crops/plantain-overview/</u>



Funded by •...• the European Union Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Commission . Neither the European Union nor the European Commission can be held responsible for them.