CONTEXT PROFILE





FARMER Marianne Schönning -Härnebo



INNOVATION Investing in irrigation for pastures



MAIN DOMAIN OF THE INNOVATION Improvement of grassland management



AGROCLIMATIC AREA Boreal



CLIMATE Moderate rainfall



SOIL TYPE Loam

MANAGEMENT Pasture dairy



TECHNICAL Computer-based











FINANCE/INVESTMENT High

MARKET Global

SOCIAL Full-time farmer



CONTEXT PROFILE SWEDEN

Case Study: SE_05	Agroclimatic Zone								
Item (Key Innovation Elements)	Alpine	Atlantic Central	Atlantic North	Atlantic South	Boreal	Continental North	Continental South	Mediterranean North	Mediterranean South
Prolonged drought periods require efficient water management solutions	+++	+++	+++	+++	+++	+++	+++	+++	+++
Utilising readily available water sources for irrigation	+	++	++	++	++	++	++	+	+
Implementing electric pumps to enhance water distribution	+	++	++	++	++	++	++	++	++



Generic information/not relevant



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Implementation Gaps

- Costs of the system (expensive)
- Legal implications in some regions regarding water use or equipment installation

Research Gaps

• Conduct comprehensive cost benefit analyses across various contexts and farming systems

unreliable



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Suggestions to Adapt

• Consider using diesel-powered systems in areas where electricity is unavailable or

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	not applicable/not known
On-going certification costs	not applicable/not known
On-going buildings and machinery costs	mid
On-going working capital	mid

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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mid
low
low
high
not applicable/not known
mid

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

high
high
mid
mid

mid
high

Literature

• None



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