# CONTEXT PROFILE





FARMER Joost Leiner



**INNOVATION** Water infrastructure for grazing



MAIN DOMAIN OF THE INNOVATION Animal management



**AGROCLIMATIC AREA** Atlantic central



**CLIMATE** Moderate rainfall



**SOIL TYPE** Gley



MANAGEMENT Pasture dairy



**TECHNICAL** Difficult











**FINANCE/INVESTMENT** Low

MARKET Global

SOCIAL Full-time farmer



## **CONTEXT PROFILE** GERMANY

Case Study: DE_05	Agroclimatic Zone								
Item (Key Innovation Elements)	Alpine	Atlantic Central	Atlantic North	Atlantic South	Boreal	Continental North	Continental South	Mediterranean North	Mediterranean South
Clean municipal (public) water available close to the farm	+	+	+	+	+	+	+	+	+
Simple to make water troughs	+++	+++	+++	+++	+++	+++	+++	+++	+++
Pipelines to all fields	++	++	++	++	++	++	++	++	++

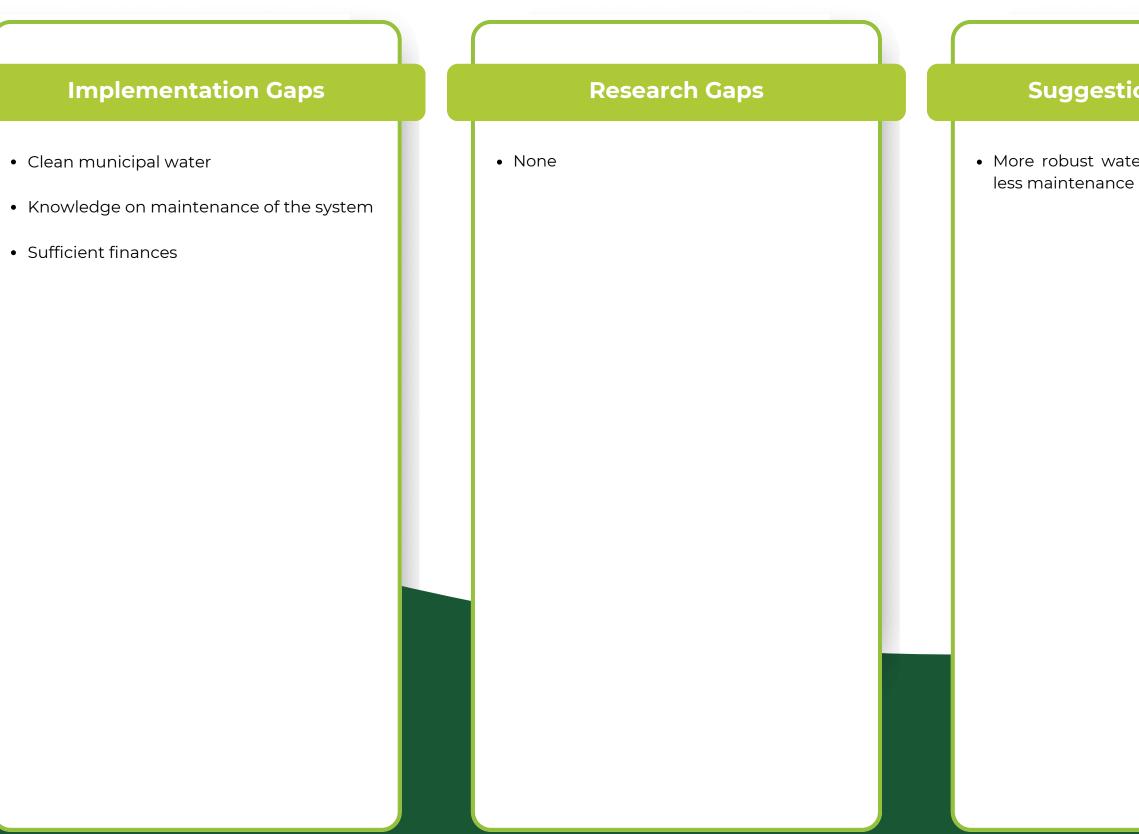


Generic information/not relevant



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## Suggestions to Adapt

• More robust water infrastructure requiring less maintenance

# **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	low
On-going certification costs	low
On-going buildings and machinery costs	mid
On-going working capital	high

#### **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
mid
low
low

high
high
none or low

high

# Literature

### English

- <u>https://www.teagasc.ie/media/website/rural-economy/farm-management/water\_article.pdf</u>
- <u>https://www.ncbi.nlm.nih.gov/books/NBK600589/</u>



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