CONTEXT PROFILE

GERMANY

FARMER
Marco Hekert

INNOVATION
Infrastructure (roads & water pipes)

Video

MAIN DOMAIN OF THE INNOVATION
Animal management

SOIL TYPE
Gley

FINANCE/INVESTMENT
Mid

AGROCLIMATIC AREA
Atlantic central

MANAGEMENT
Pasture dairy

MARKET
Global

CLIMATE
Moderate rainfall

TECHNICAL
Difficult

SOCIAL
Full-time farmer

All contents of this document are expert opinions of the G4AE Scientific Technical Working Group

CONTEXT PROFILE

GERMANY

Case Study: DE_07	Agroclimatic Zone								
Item (Key Innovation Elements)	**Alpine**	**Atlantic Central**	**Atlantic North**	**Atlantic South**	**Boreal**	**Continental North**	**Continental South**	**Mediterranean North**	**Mediterranean South**
Farm roads to ensure easy animal movement between pasture and milking parlor	++	+++	+++	+++	++	+++	+++	++	++
Water troughs in the pasture to have water at the grazing place	++	+++	+++	+++	++	+++	+++	++	++
Water meters to monitor leaks and measure water consumption	+++	+++	+++	+++	+++	+++	+++	+++	+++
Extended grazing	+++	+++	+++	+++	+++	+++	+++	+++	+++

+++ **Strong transferability** ++ **Slightly limited transferability** + **Very limited transferability** ✕ **Generic information/not relevant**

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Implementation Gaps

- Good infrastructure needed for extended grazing
- Associated costs for this good infrastructure

Research Gaps

- None

Suggestions to Adapt

- Give attention to local conditions, especially soil type

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COST-BENEFIT ANALYSIS

INVESTMENT COSTS

Total initial investment costs at start up:	mid
• Initial authorisation costs (e.g. sanitary, veterinary, etc.)	not applicable/not known
• Initial advisory costs	not applicable/not known
• Initial buildings and machineries	not applicable/not known
• Initial certification costs	not applicable/not known
• Initial working capital (personal qualification, marketing and promotion, etc.)	not applicable/not known

ON-GOING COSTS

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

BENEFITS RELATIVE TO ORIGINAL SYSTEM

- **Economic**

Reduction in energy consumption (electricity; fuel consumption)	none or low
Reduction in input use (fertilizers; pesticides; feed) etc.	not applicable/not known
Payback period	mid
Product value added	high
Additional farm income through agroecological/agri-environmental payment schemes	not applicable/not known

- **Environmental**

Animal feed self-sufficiency increase	mid
Biodiversity increase	not applicable/not known
Improved nitrogen cycling	not applicable/not known
Soil regeneration	high
Animal health and welfare improvement	high

- **Social**

Workload reduction	mid
Engagement of young generation	not applicable/not known

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Literature

French

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English

- https://www.teagasc.ie/publications/2021/the-farm-roadway-visual-assessment-booklet.php
- https://www.teagasc.ie/media/website/rural-economy/farm-management/water_article.pdf
- https://www.ncbi.nlm.nih.gov/books/NBK600589/

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