CONTEXT PROFILE

ROMANIA

FARMER
Călin Fărgaciu

INNOVATION
Dairy farming with automated milking machines

Video

MAIN DOMAIN OF THE INNOVATION
Workload reduction

SOIL TYPE
Clay

FINANCE/INVESTMENT
High

AGROCLIMATIC AREA
Continental south

MANAGEMENT
Pasture dairy

MARKET
Local-rural

CLIMATE
Moderate rainfall

TECHNICAL
Computer-based

SOCIAL
Part-time farmer

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

CONTEXT PROFILE

ROMANIA

Case Study: RO_11	Agroclimatic Zone								
Item (Key Innovation Elements)	**Alpine**	**Atlantic Central**	**Atlantic North**	**Atlantic South**	**Boreal**	**Continental North**	**Continental South**	**Mediterranean North**	**Mediterranean South**
New milking parlour with automated washing and improved entry and exit	+++	+++	+++	+++	+++	+++	+++	+++	+++
Increased number of units in milking parlour	+++	+++	+++	+++	+++	+++	+++	+++	+++
Computer literacy	+++	+++	+++	+++	+++	+++	+++	+++	+++
Reduced workload for employees	+++	+++	+++	+++	+++	+++	+++	+++	+++
Less waiting time for cows for milking	+++	+++	+++	+++	+++	+++	+++	+++	+++
Farm co-operative	+++	+++	+++	+++	+++	+++	+++	+++	+++

+++ Strong transferability **++ Slightly limited transferability** **+ Very limited transferability** **× 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

- Increase in milk quality with the automatic washing
- Reduction in milking time
- Potential to increase cow numbers
- Staff training needs

Research Gaps

- Comparison of milk quality

Suggestions to Adapt

- Demonstration
- Training requirements
- Information about milk quality

Grazing4AgroEcology

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.

COST-BENEFIT ANALYSIS

INVESTMENT COSTS

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

ON-GOING COSTS

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

BENEFITS RELATIVE TO ORIGINAL SYSTEM

- **Economic**

Reduction in energy consumption (electricity; fuel consumption)	not applicable/not known
Reduction in input use (fertilizers; pesticides; feed) etc.	not applicable/not known
Payback period	mid
Product value added	not applicable/not known
Additional farm income through agroecological/agri-environmental payment schemes	not applicable/not known

- **Environmental**

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

- **Social**

Workload reduction	mid
Engagement of young generation	mid

Grazing AgroEcology

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.

Literature

English

Lots of grey literature around milk quality impacts of washing routines

- http://www.positiveaction.info/pdfs/articles/dt8.6p13.pdf
- https://doi.org/10.3103/S1068367415040199
- DOI: 10.5772/intechopen.113084

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.