CONTEXT PROFILE





FARMER Gavino Arca Farm Su Giau



INNOVATION

Sheep grazing using complementary pasture types and milking once per day



MAIN DOMAIN OF THE INNOVATION Improvement of grassland management



AGROCLIMATIC AREA Mediterranean South



CLIMATE Mild winter





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MANAGEMENT Pasture Dairy



TECHNICAL



















CONTEXT PROFILE

Case Study: IT_09	Agroclimatic Zone								
Item (Key Innovation Elements)	Alpine	Atlantic Central	Atlantic North	Atlantic South	Boreal	Continental North	Continental South	Mediterranean North	Mediterranean South
Forage grasslands	+++	+++	+++	+++	+++	+++	+++	+++	+++
Small paired paddocks with rotational grazing	++	+++	+++	+++	+++	+++	+++	+++	+++
Only one milking per day	+++	+++	+++	+++	+++	+++	+++	+++	+++
Reducing costs and more time available	+++	+++	+++	+++	+++	+++	+++	+++	+++
Mobile water system	++	+++	+++	+++	+++	+++	+++	+++	+++
Work family balance	+++	+++	+++	+++	+++	+++	+++	+++	+++



Generic information/not relevant



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Implementation Gaps

- Demand of labour to move drinking water system
- Seeds / seed mixtures
- Reduction of milk is unknown (5% ?) and not reversible
- Lower emissions of greenhouse gases
- Requests of machine and labour are significant

Research Gaps

- Species / varieties / mixtures. Breeding and field testing
- Relationship between feed and productivity
- Productivity of different milking systems

- delivery

- Scale up



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Suggestions to Adapt

• Invest in water system to automatize

• Permanent multispecies pastures

• Soil regenerative practices

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



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

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not applicable/not known

low

not applicable/not known

not applicable/not known	
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not applicable/not known

high

high

not applicable/not known

mid
none or low
mid
mid
high

high
none or low

Literature

English

- <u>https://www.frontiersin.org/articles/10.3389/fsufs.2020.596869/full</u>
- <u>https://doi.org/10.1016/S0378-4290(99)00081-7</u>
- <u>https://link.springer.com/chapter/10.1007/978-94-009-1019-5_11</u>
- <u>https://doi.org/10.1071/EA03134</u>
- <u>https://doi.org/10.1016/j.fcr.2019.05.019</u>



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