

CONTEXT PROFILE



FARMER

Giuliano Pulinas -
Farm Truvunittu



INNOVATION

Daily rotation of permanent pastures to
support sheep milk production



[Video](#)



MAIN DOMAIN OF THE INNOVATION

Improvement of grassland management



SOIL TYPE

Clay



FINANCE/INVESTMENT

Low



AGROCLIMATIC AREA

Mediterranean South



MANAGEMENT

Pasture Dairy



MARKET

Local-rural



CLIMATE

Mild winter



TECHNICAL

Easy



SOCIAL

Full-time farmer

| Case Study: IT_11 | Agroclimatic Zone | | | | | | | | |
|--|-------------------|------------------|----------------|----------------|--------|-------------------|-------------------|---------------------|---------------------|
| Item (Key Innovation Elements) | Alpine | Atlantic Central | Atlantic North | Atlantic South | Boreal | Continental North | Continental South | Mediterranean North | Mediterranean South |
| Mini dairy on farm | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Year round milking | +++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Annual crops for hay | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Permanent pasture | +++ | +++ | +++ | +++ | +++ | +++ | +++ | +++ | +++ |
| Preserve soils and biodiversity | +++ | +++ | +++ | +++ | +++ | +++ | +++ | +++ | +++ |
| Paddocks created based on grass characteristics - grass height is about 4-5 cm; graze only one day in each grazing paddock, from 9-10 to 16 o'clock; 8 grazing plots on the farms, which area spans from 2 to 6 hectares | +++ | +++ | +++ | +++ | +++ | +++ | +++ | +++ | +++ |
| No ploughing | +++ | +++ | +++ | +++ | +++ | +++ | +++ | +++ | +++ |
| Mulching weeds | +++ | +++ | +++ | +++ | +++ | +++ | +++ | +++ | +++ |
| Unifeed in barn | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Rotational grazing | +++ | +++ | +++ | +++ | +++ | +++ | +++ | +++ | +++ |

+++ Strong transferability
 ++ Slightly limited transferability
 + Very limited transferability
 × Generic information/not relevant

Implementation Gaps

- Mulching may spread weeds
- Having enough feed to milk year round could be difficult
- Good quality permanent pastures might be difficult to establish
- Is water available in every paddock?

Research Gaps

- Identify Best grasses/clovers to sow
- What species to include in the permanent pasture
- Does mulching increase the spread of weeds? Is there an optimum time for mulching?

Suggestions to Adapt

- Demonstration
- Quantify how much feed is needed per ewe outside grazing season
- How much feed per ewe is fed in the grazing season
- Is the cheese yield good (1 kg/7 l milk)? Could this be improved?

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 | low |
| • Initial buildings and machineries | mid |
| • Initial certification costs | not applicable/not known |
| • Initial working capital (personal qualification, marketing and promotion, etc.) | mid |

ON-GOING COSTS

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

BENEFITS RELATIVE TO ORIGINAL SYSTEM

◦ Economic

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

◦ Environmental

| | |
|---------------------------------------|------|
| Animal feed self-sufficiency increase | high |
| Biodiversity increase | high |
| Improved nitrogen cycling | high |
| Soil regeneration | high |
| Animal health and welfare improvement | high |

◦ Social

| | |
|--------------------------------|-------------|
| Workload reduction | none or low |
| Engagement of young generation | none or low |

Literature

English

- [Sustainability | Free Full-Text | The Effect of Kurzrasen and Strip-Grazing on Grassland Performance and Soil Quality of a Peat Meadow \(mdpi.com\)](#).
- <https://dx.doi.org/10.4081/ija.2020.1711>
- <https://doi.org/10.1016/j.smallrumres.2008.03.003>