



Resilience for Dairy (R4D) has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No 101000770

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Innovations

Resilience /
Environment/
Animal Wellbeing



Farming milestones



The herd

- 80 Livestock Units (LU)
- 40 dairy cows
- Breeds : Holstein (56%)
Nordic Red (23%) Jersey (3%)
- 30 dairy heifers and 10 calves
- Calving period : all year round
- Age at first calving : 27 months



Agricultural Area

65 ha AA

- 38 ha grass silage
- 22 ha pastures
(15 ha perennial timothy grass,
7 ha annual Italian ryegrass)
- 5 ha cereal grains

Workforces

- 2 farmers
- 1 employed during harvest season

Areas of interest

- Maximising the benefits of grazing
- Welfare of calves
- Higher milk production / cow

Main buildings and equipment

- Tie stall barn, 40 stalls
- Milking system: 6x milk master DeLaval
- Solid manure
- Individual boxes for young calves
- Calves 2 months whole milk 9 l/d
- Winter: Silage + high-protein compound feed + cereal
- Summer: Pasture + compound feed

Production / Technical results

- 348 000 liters of milk produced
- 4.8 % fat & 3.6% protein content
- Stocking rate: 1.1 LU / ha forage area
- 10 000 l of milk /cow /year & 5800 l /ha forage area
- Summertime; Rotational grazing
(Grazing time 21 h /d, cows change the grazing zone every day)





Farmer's strategy for a "resilient" system

Maintenance of the financial buffer
Effective exploitation of grazing

Aspirations / Needs for the future

Increasing the milk yield of cows by investing in breeding and feed quality

Improvement project - objectives

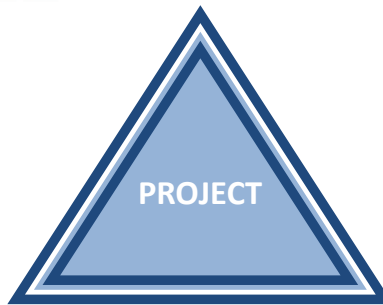
- Carbon footprint calculations
- Keep the machines operational



**RESSOURCE
Efficiency**



**ECONOMY &
LABOUR**



- Responsibility compensation (Valio dairy company)
- Compensation for welfare and environment (Valio)
- Take care of the health of cows and calves by supporting species-typical behaviour

**ENVIRONMENT
ANIMAL Wellbeing**



"Resilience 4 Dairy" is a European project involving 15 European countries and 18 partners. R4D is a thematic network on innovations and aims to support EU dairy farming in these regions where dairy farming is a main economic activity.



R4D pilot farmers are involved in a National Dairy Akis group where needs, solutions and knowledge are exchanged with other farmers, advisors and scientists on their way to build a resilient system. More information <https://resilience4dairy.eu/>