



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

Kuikkalahti Dairy

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Innovations

Resource efficiency /
Socio-economic
Resilience /
Environment



2015

New barn and AMS
(milking robot)

2020

12 000 ECM / cow / year
Calvings / cow 3.0

Farming milestones

2018

850 000 kg milk
/ one robot

2023

Recycled manure solids as a
bedding material, automated
spreading system

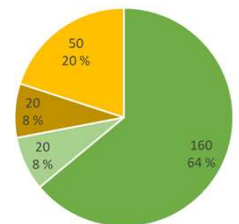
The herd

- 285 Livestock Units (LU)
- 210 dairy cows
- Breeds : Holstein 85%, Nordic Red 15 %
- 130 dairy heifers
- Calving period : all year round
- Age at first calving : 23 months

Agricultural Area

250 ha AA

- 160 ha grass silage
- 20 ha pastures
- 20 ha whole crop cereal
- 50 ha barley grains



Workforce

- 2 farmers
- 3 employees
- Machinery cooperation and working together with Koivuranta dairy during harvesting season.

Areas of interest

- Increasing utilization of technology
- Communication towards general public; student groups, training days...
- Cow breeding (Semex company)



Main buildings and equipment

- Loose housing barn for dairy cows
- 3 milking robots (Lely Astronaut A4)
- Feed mixer wagon (TMR feeding)
- Recycled manure solid bedding spread automatically
- Heifers and calves in separate barns, deep straw bedded lying area for calves



Production / Technical results

- 2 300 000 liters of milk produced
- 4.25 % fat & 3.33 % protein content
- Stocking rate: 1.4 LU / ha forage area
- 11 500 l of milk /cow/305 d & 11 500 l / ha forage area
- Carbon foot print: 0.86 kg CO₂ e/kg ECM (energy corrected milk)





Farmer's strategy for a "resilient" system

Enthusiasm for development
Well prepared for time of crisis
Good network and enough resources

Aspirations / Needs for the future

Expansion of the farm in the future / fourth milking robot

Improvement project - objectives

- Recycled manure solids as a bedding material
- Ventilation in barn
- Improvements in the conditions of dry cows

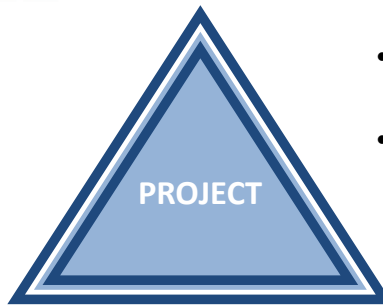


ECONOMY & LABOUR

- Responsibility compensation (Valio dairy company)
- Compensation for welfare and environment (Valio)
- Carbon footprint calculations



RESSOURCE Efficiency



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/>