

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

# Innovations

Resource efficiency /Socio-economic Resilience







Finland

## **Farming milestones**

2008 First loose housing barn built with milking parlour (Now the barn is used by heifers)

2018 New barn and AMS (milking robot)

2020 3 feed silos built

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Koivurannan tila

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Maaninka 2022

2021 Separate barns renovatied and expanded for geifers and calves

#### The herd

• 470 Livestock Units (LU)

285 dairy cows <u>Breeds</u> : Holstein (85%) Nordic Red (15%)

- 180 dairy heifers
- Calving period : all year round
- Age at first calving : 24.5 months



# Agricultural Area

#### 380 ha AA

- 280 ha grass silage
- 10 ha pastures
- 10 ha other grasses
- 80 ha cereal grains

#### Workforces

- 2 farmer
- 3.5 employees + 2 during harvest season
- Machinery cooperation and working together with Kuikkalalahti dairy during harvest season

### Areas of interest

- New manure separation systems
- Cooperation and networking with other farms
- Continuous development of the business

### Main buildings and equipment

- Loose housing barn for dairy cows, water beds
- 4 milking robot (Lely Astronaut A5)
- Feed mixer wagon (TMR feeding)
- Lely Juno- Automatic feed pusher

- Individual boxes for young calves
- Heifers and calves in separate barns, deep straw bedded lying area for calves

## **Production / Technical results**

- 3 050 000 liters of milk produced per year
- 4.21 % fat & 3.4 % protein content
- Stocking rate: 1.6 LU / ha forage area
- 10 500 l of milk /cow /year & 6 382 l / ha forage area
- Carbon footprint 1.16 kg CO<sub>2</sub> e/kg ECM









"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 <u>https://resilience4dairy.eu/</u>