



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**

Socio-economic Resilience / Environment









### **Farming milestones**

11

67

48 %

18

13%

43

2018

2 milking robots

1994

Starting farming

Enlargement of the barn for 90 cows

2005

Ī

2000

Barn for 45 cows

2014

New loose-housing barn

#### The herd

- 187 Livestock Units (LU)
- 130 dairy cows

Breed: Ayrshire 87 %,

Holstein 12 %, Finncattle 1 %

- 95 heifers and calves
- · Calving period : all year round
- Age at first calving: 25.4 months

### **Agricultural Area**

#### 160 ha AA

- 100 ha grass for silage
- 15 ha grass for hay
- 5 ha natural biotopes
- 40 ha barley, oats
- 115 ha main fodder area
- 100 % of grassland / forage area

#### **Workforces**

- 3.5 labour units (Full Time Equivalent)
- 42.3 dairy cows & 369 700 I /FTE
- Aims:

#### Areas of interest

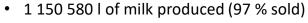
- Animal and human welfare
- Renewable energy and energy self sufficiency
- · Feeding & management of calves and heifers
- Carbon farming

## Main buildings and equipments

- Free ranging barn, cubicles
- 2 milking robots
- Separate building for young stock



### **Production / Technical results**



- 4.62 % fat & 3.73 % protein content
- Stocking rate: 1.63 LU / ha forage area
- 8851 | of milk /cow /year & 10 005 | /ha forage area

Maintaining high genetic value in breeding of cows





### Strengths

- Good co-operational farms
- Cows are of high genetic value
- Good attitude and open minds of farmers



### Weaknesses

- Field area quite low
- Generational change
- Availability of workforce changes



## **Opportunities**

- Good availability of labour so far
- Open minds for change



### **Threats**

- Weather extremes
- Change in consumption habits of dairy products
- ▶ Generational change
- Price fluctuations

### Farmer's strategy for a "resilient" system

Long experience in farming, open minds, readiness to face new things

No opposition to changes has been tradition in this farm for many generations

Active participation in farmers peer-groups

## Aspirations / Needs for the future

Improvement of working conditions
Generational change

## Improvement project - objectives



 Improvement of working conditions

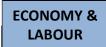
Lowering the feeding costs

Building more storage space
 Broparing for blackouts

Preparing for blackouts



RESSOURCE Efficiency





- Economic monitoring
- Carbon farming
- Increasing renewable energy sources
- Improvements of feeding and housing of heifers and calves

**ENVIRONMENT ANIMAL Wellbeing** 



**Partners** 



"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/