



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

# **VAN ROESSEL Pilot Farm description** Haarsteeg - 2022



### **Innovations**

**Environment / Resource efficiency** 









#### Farming milestones

2004

Start social care farm

2014

Low emission floor installed 2017

Social care branch privatized

2019

Gas production and flaring

2021

Purchase of P-space

2022

Gas collection

0

0

0

0

The herd

64 dairy cows (44 young stock)

Breed: HF

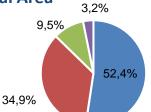
Calving period: all year round

Age at first calving: 25 months

**Agricultural Area** 

#### Total 63 total ha AA

- 33 ha grassland
- 22 natural grassland
- 6 maize
- 2 arable



#### Workforces

- 1,5 for the cows labour units (Full Time Equivalent) + 1 FTE volunteers
- 2 FTE total for the human care
- 64 dairy cows & 176465 I / 1 FTE

#### Areas of interest

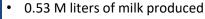
- Energy transition and production
- Technical and creative development
- Inventions

### Main buildings and equipments

- 1 Boumatic double milking robot with 3D cameras
- Mobile biogas production and compactor installation
- Low emission floor to separate feces and urine. And mechanical separator to separate feces in liquid and solids.



### **Production / Technical results**



- 4,47% Fat, 3,59% Protein
- Stocking rate: 1.3 LU / ha forage area
- 8270 I of milk /cow /year & 9625 I /ha forage area





## **Strengths**

- Optimal barn with low NH3 emissions
- Technical efficiency and self sufficency
- Creative, entrepreneurial spirit
- High quality roughage
- Human care branch



### Weaknesses

- Danger of focus loss, due to having two business branches
- Chaotic management and character



## **Opportunities**

- Availability of additional land plots nearby
- Potential to become (more) extensive
- Business opportunities regarding methane
- Expand the human care branch with care professionals



#### **Threats**

- Size of the investment
- Continuity of the human care branch
- Lack of government vision

  Pressure on the sector and expectations on successor

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

1) Focus on potential valorization of methane 2) expansion, professionalization of the human care branch 3) extensivation, more ha's

## Aspirations / Needs for the future

1) Availability of land plots 2) clarity and vision on regulation and future perspective

# Improvement project - objectives



ECONOMY & LABOUR

• Human care branch expansion

High quality roughage



RESOURCE Efficiency



(Passive) Biogas installation

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/