



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

Sarobe Farm **Pilot Farm description** Karrantza/Carranza Valley



Innovations

Socio-economic Resilience / **Environment**









1st robot installation

Construction of outdoor warehouse **Farming milestones** 2022

2nd robot

2020

2021

2022 Expansion of indoor facilities

Farm set up 1 employee hired

The herd

- 120 Livestock Units (LU)
- 60 dairy Holstein cows
- 30 dairy heifers
- 30 calves → separated rebreeding centre
- Age at first calving: 23 months
- No replacement → farm expansion
- 1st A.I. sexed; repeaters with Angus

Workforce

- Labour agreement → 8 h workday
- 2 farmers → fulltime
- 1 man full time labour
- 1 woman part time labour

Main buildings and Equipment

- 1 main pavilion
- 2 robots (DeLaval)
- 55+68 cubicles
- Offices
- Sand beds
- 1 pit of 1 million L
- 1 storeroom
- Ventilators
- Slurry scrapers
- Humidifiers

Agricultural Area

- 11 ha
- Forecast → 25 ha
- 50%-50% corn and ryegrass (unifeed)

Areas of interest

- Sustainability
- Animal welfare
- Milk quality



Production / Technical results

- 2.000 L/day produced
- 4% butterfat and 3.6% protein
- 14 kg (8 + 6 in robot) of concentrate/cow/day
- Total → 26 kg DM/cow/day
- Total feed cost → 8.7€/cow/day





Strengths

- Youthful strength
- Educational formation



Weaknesses

- Lack of surface
- Current situation
- COVID = start of activity



Opportunities

- Looking ahead
- More farms
- Young workers



Threats

- Lack of fodder
- Restrictive regulations
- Urban land pressure
- Minimize costs

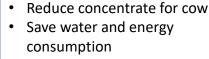


Improvement project - objectives

Reduce work load

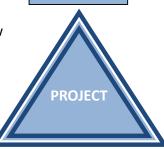


ECONOMY & LABOUR





RESOURCE EFFICIENCY



- Optimise dairy gross margin
- Keep a good global profitability for a knowledge transfer centre

• Improve forage self-sufficiency





Partners



Collaborators



"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/