



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

Soc. Agr. Cervi Ciboldi
Ernesto, Maria Cecilia e
Maria Paola S.S.
LOMBARDY – Cremona

Italy



Innovations

Socio-economic efficiency & Technical efficiency

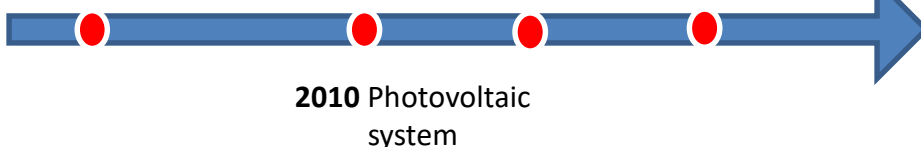


Farming milestones

XVIII century
Foundation

2016
New barn

2017 -2020
Automatic Feeding System



The herd

- 700 Livestock Units (LU): 600 (milk) + 100 (beef)
- 360 dairy cows
- Breeds : Italian Frisian + beef breeds
- 137 dairy heifers
- Calving period : all year round
- Age at first calving : 22 months

Agricultural Area

200 ha AA

- 130 ha maize
- 38 ha alfa alfa
- 32 ha barley
- 30 ha grassland/Lolium
- 24 ha sorghum

Workforces

8 labour units (Full Time Equivalent)

Areas of interest

- Energy self-sufficiency
- Raw materials self-sufficiency
- Automation



Main buildings and equipments

- Free walk housing
- Cubicles + Permanent bedding
- 16+16 milking parlor
- Unifeed: Automatic Feed Mixer and feed pusher robot
- Individual + collective boxes for young calves
- Collective boxes on straw litter for heifers

Production / Technical results

- 4400000 liters of milk produced
- 4,27 % fat & 3,52 % protein content
- 41 liters of milk /cow / day (average)
- 100% to Latteria Soresina Cooperative Cheese Factory



Strengths

- Innovation
- Raw materials self-sufficiency



Weaknesses

- Generation renewal



Opportunities

- Agricultural area and many discussion opportunities



Threats

- Cooperatives weaknesses

Farmer's strategy for a "resilient" system

- Technical efficiency: automation (automatic TMR mixing wagon, feed pusher robot, calf rail)
- Socio-economic efficiency: raw material self-sufficiency

Aspirations / Needs for the future

- Energy self-sufficiency
- Improve raw material self-sufficiency
- Automation



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/>