



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

## Innovations

Socio-economic Resilience / Environment



2017

Audronė and her family started farming

2019

Included corn in cows ration/ work with genomic testing and working for cow genetic

### Farming milestones

2021

learning and knowledge development for farmers

2018

Renew grassland with alfa grass

2020

Lupin beans changed soy beans

### The herd

- 90 Livestock Units (LU)
- 35 dairy cows
- Breeds holstein/lithuanian mix
- 55 dairy heifers
- Calving period : all year round
- Age at first calving : 26 months

### Agricultural Area

#### 80 ha AA

- 35 ha perm. grassland(alfa alfa/ mix)
- 15 ha Maize silage
- 30 ha lupin/beans / barley /wheat

### Workforces

- 1 labour units (Full Time Equivalent)
- 43.5 dairy cows & 265 000 l /FTE
- Aims : Save time, be efficient,
- Aware of society and suburban issues

### Areas of interest

- Look for the economic optimum
- Resist to changing climate and economic coming crises
- Quality of forage due to weather

### Main buildings and equipments

- Sleeping area on straw litter
- Individual boxes for young calves
- Exercise area producing solid manure
- Collective boxes on straw litter for heifers

### Production / Technical results

- 310 000 liters of milk produced (98 % sold)
- 4.3 % fat & 3,7% protein content
- 8780 l of milk /cow /year & 4 050 l /ha forage area

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|  <h3>Strengths</h3> <ul style="list-style-type: none"> <li>• Years of experience</li> <li>• A desire and love for farming</li> <li>• Family business</li> <li>• Suitable land for farming</li> </ul> |  <h3>Weaknesses</h3> <ul style="list-style-type: none"> <li>• Government's lack of action on dairy issues</li> <li>• Lack of digitisation</li> </ul> |  <h3>Opportunities</h3> <ul style="list-style-type: none"> <li>• Acquiring new knowledge</li> <li>• Cooperation</li> <li>• Traineeships abroad, implementation of foreign technologies</li> </ul> |  <h3>Threats</h3> <ul style="list-style-type: none"> <li>▪ Adverse weather conditions</li> <li>• Unfavourable economic situation in the country</li> </ul> |
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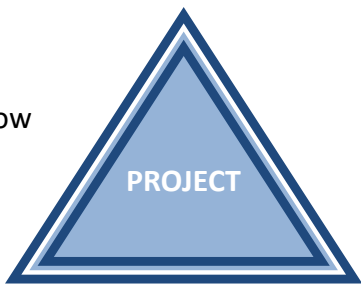


## Farmer's strategy for a "resilient" system

Adhere to high standards of animal welfare, providing a comfortable and stress-free environment for dairy cows. This includes ensuring proper housing, access to clean water, regular veterinary care, and promoting behaviors that reduce cow stress, such as avoiding overcrowding and harmful handling practices.

## Aspirations / Needs for the future

To create good conditions for both farm animals and farm workers. To automate farm operations and improve the quality of milk production.

## Improvement project - objectives

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|---|---|---|
| <ul style="list-style-type: none"> <li>• Reduce work load</li> </ul>  |  <div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>ECONOMY &amp; LABOUR</b> </div> | <ul style="list-style-type: none"> <li>• Optimize dairy gross margin</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Reduce concentrate for cow</li> </ul>  | <div style="text-align: center;">  <p><b>PROJECT</b></p> </div>  | <ul style="list-style-type: none"> <li>• Keep a good mineral balance</li> <li>• Improve forage self-sufficiency</li> </ul>  |
|  <div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>RESSOURCE Efficiency</b> </div> |   | <div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>ENVIRONMENT ANIMAL Wellbeing</b> </div>  |

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/>