



Kohne **Pilot Farm description** Middenbeemster- 2022



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

Innovations

Environment / Resource efficiency









2013

New free walk barn with wood chips

2020

lower and longer silage storage walls 2021

Change of feed strategy without corn 2021

More grassland, less tulips and field beans 2021

Feed strategy changed to herb rich feeding

2022 Change of ownership



To reduce silage losses

The herd

105 dairy cows (44 young stock)

Breed: HF

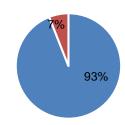
Calving period: all year round Age at first calving: 25 months

Calving interval: 420 days

Agricultural Area

Total 68 total ha AA

- 63 ha grassland
- 5 ha corn



Workforces

- 1,5 labour units (Full Time Equivalent)
- 102 dairy cows & 620000 I / 1,5 FTE
- Succession is likely

Areas of interest

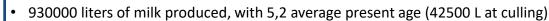
- Circularity; soil quality
- Feed efficiency
- More natural methods of feeding and manure application

Main buildings and equipments

- 1 main free walk stall with wood chips
- 2x Milking robots
- Air ventilation engine/system



Production / Technical results



- 4.3% Fat, 3,5% Protein
- Stocking rate: 1.5 LU / ha forage area, 6kg concentrate / cow day
- 9100 I of milk /cow /year & 13600 I /ha forage area





Strenaths

- Critical entrepreneurship Focus and investment in soil quality and health
- Low protein in rations
- Animal health status
- Circular system
 - (youngstock for own herd)
 - Free walk barn





Opportunities

- Planet Proof Healthy soil/cows Adopting to societal desires

- manure/compost Exception rule for free walk
- No fertilizer use Organic farming



- Unclear/insecure policy making Public opinion and specific group opinion
- Subsidy on biomass competes with bedding supply
- Framing of agriculture Barn type due to novelty not always incorporated in all systems

Farmer's strategy for a "resilient" system

1) Work on soil/cow quality and health to work towards organic/fertilizer free 2) Free walking system to support farming philosophy 3) Reduction of derogation will lead to having less livestock and sales of higher value composting material

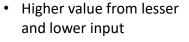
Aspirations / Needs for the future

Clear policy (regional) and security of those, ability to make sustainable plans. Free walking system recognized as an emission low farming system.

Improvement project - objectives



ECONOMY & LABOUR



Milk production increase with same concentrate





Carbon sequestration due to farming system

> **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/