EuroDairy Network

Dairy-related Operational Groups developing practice-based innovation
Dairy-related EIP Operational Groups developing practice-based innovation

Submission date:
10 January 2019

Names of the responsible authors and organisations:
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Dissemination level
Public

Project deliverable
D2.2 Forty two Operational Groups developing practice based innovation

About EuroDairy
EuroDairy spans 14 countries, from Ireland to Poland, and from Sweden to Italy, encompassing 40% of dairy farmers, 45% of cows and 60% of European milk output. EuroDairy is an international network to increase the economic, social and environmental sustainability of dairy farming in Europe. EuroDairy fosters the development and dissemination of practice-based innovation in dairy farming, targeting key sustainability issues: socio economic resilience, resource efficiency, animal care, and the integration of milk production with biodiversity objectives. EuroDairy is funded by the EU Horizon 2020 research and innovation programme under Grant Agreement No 696364.
Dairy-related Operational Groups developing practice-based innovation

1. Introduction
The main objective of the EuroDairy Thematic Network is to spread innovation and best practice cross border. A secondary objective is to demonstrate and test the effectiveness of an interactive approach to the development and dissemination of innovative practice. A key measure under the European Innovation Partnership concept, is the establishment of multi-actor Operational Groups, funded by regional Rural Development Programmes. EuroDairy was charged with delivering 42 Operational Groups affiliated to the project, thereby connecting measures under the EIP (Thematic Networks) with those under Rural Development (Operational Groups).

2. Approach
The EuroDairy project proposal was constructed with the impending rollout of the Operational Group model in mind. These Groups would act as sources of innovative ideas, and as far as possible, contain leading farmers with good communication skills as champions for the project, and to inspire other farmers through their own experiences.

The original intention was for partners to link to Operational Groups, or to bid themselves for funding to establish such Groups, as the measure opened up under Rural Development Programme. Unfortunately, the speed and extent of implementation of the EIP measure to establish Operational Groups varied between member states. In some countries, calls for Operational Groups were delayed considerably and/or funding limited. An additional constraining factor was the proportion of new Operational Groups which had a focus on dairy, when the overall number was lower than anticipated. Due to the political situation, Northern Ireland had not implemented the EIP by the time EuroDairy had finished. In addition, the original aim was to select the cohort of 120 Pilot Farmers associated with the EuroDairy project, largely from members of newly formed Operational Groups.

For EuroDairy, these constraints necessitated a change in strategy. Such was the belief in the approach, some partners funded Operational Groups themselves or continued to support existing groups that were acting in a way very much consistent with the multi-actor Operational Group model. Therefore, the project has two types of affiliated Operational Group – those funded by Rural Development Programmes as part of a competitive process (‘official’ Operational Groups), and those supported outside of the Rural Development Programme (‘unofficial’ Groups).

In terms of Pilot Farmers, EuroDairy partners had to recruit participating farmers independently of Operational Groups, at least initially. However, as time progressed, some Pilot Farmers participated in successful Operational Group applications.
3. Results
Despite the mismatch in timing between the establishment of the Thematic Network and implementation of the EIP across Member States, 43 Operational Groups have been identified and linked to the EuroDairy project. These are located in 11 different countries.

These reflect a range of farming systems socio-economic conditions - from high-input indoor systems, to low-input pasture based production. Regional differences in approaches to forage production, including variations in crop rotation, types of forages grown, fertilizer policy and harvesting methods provide a range of experience and measured performance levels which can be shared more widely. The groups and the farmers involved will provide practical context for further development, demonstration and dissemination of improved husbandry techniques.

Of the 43 Operational Groups, 28 benefit from RDP funding and 15 derive support from other funding sources. This deliverable consists of:

- The list and names of the Operational Groups identified (Annex A);
- An inventory of descriptive leaflets collating information from each Group (Annex B).

In terms of focus, subjects of interest to the Operational Groups are spread across each of the four EuroDairy themes (Resource Efficiency, Animal Care, Socio-economic Resilience, Biodiversity). The majority of groups are interested in more than one topic.

4. Exploitation
Within the project, Operational Group participants have been an integral part of knowledge exchange.

- Operational groups have been involved in exchange visits, as discrete groups or in combination with other Groups or EuroDairy Pilot farmers
- Individual members have delivered webinars, or provided content for dissemination material, such as video case studies
- Operational Groups have been the basis of content for some of the technical leaflets prepared by the project
- Individual members, participating as Pilot Farmers, have facilitated the collection of financial and resource efficiency data on their farms
- Operational Group Coordinators were invited to a Workshop in Leuven on 29th November 2018, to discuss how Thematic Networks and Operational Groups could work better together to mutual benefit.

Reports, results, digital content and dissemination materials drawn from each of the above activities can be viewed on the EuroDairy website www.eurodairy.eu

5. Acknowledgements
The collaboration of Operational Group members and coordinators across the range of EuroDairy activities is gratefully acknowledged. EuroDairy is funded by the EU Horizon 2020 research and innovation programme under Grant agreement No 696364.
Annex A. Inventory of Operational Groups identified, contacts, main topics, funding source

<table>
<thead>
<tr>
<th>#</th>
<th>Country/region</th>
<th>Name of OG</th>
<th>EIP Agri funded</th>
<th>ED topic</th>
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<td>Y/N</td>
<td>WP3 WP4 WP5 WP6</td>
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<td>GP MortellaroManagement</td>
<td>Y</td>
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<td>2</td>
<td>BELGIUM</td>
<td>Haalbaarheid van het opstellen van een bedrijfsstikstofbalans op een melkveebedrijf met het oog op het reduceren van ammoniakemissies</td>
<td>Y</td>
<td>X</td>
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<tr>
<td>3</td>
<td>BELGIUM</td>
<td>Milk Trading Company (MTC)</td>
<td>Y</td>
<td>X</td>
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<td>4</td>
<td>BELGIUM</td>
<td>Pocketboer</td>
<td>Y</td>
<td>X</td>
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<td>5</td>
<td>BELGIUM</td>
<td>Smart Weeding, Organic Feeding'</td>
<td>Y</td>
<td>X</td>
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<td>6</td>
<td>BELGIUM</td>
<td>VEGCAT</td>
<td>Y</td>
<td>X</td>
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<td>7</td>
<td>FINLAND</td>
<td>EuroMaito [EuroMilk] project</td>
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<td>X X X</td>
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<td>8</td>
<td>FINLAND</td>
<td>Operational Group: BioRAEE</td>
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<td>X</td>
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<td>9</td>
<td>FINLAND</td>
<td>Kuvaa Nautaa – Lämpökuvaus nautojen hoidon tukena [Thermal Imaging of Cattle] project</td>
<td>Y</td>
<td>X</td>
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<td>SMARTFEED - Smart measurements in cattle feeding and health [ĂLYREHU]</td>
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<td>FRANCE</td>
<td>Résilience Lait Normandie</td>
<td>Y</td>
<td>X</td>
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<td>13</td>
<td>FRANCE</td>
<td>EuroDairy – Rhône-Alpes</td>
<td>Y</td>
<td>X</td>
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<td>SPAIN, GALICIA</td>
<td>Eurol: Producing d'un leite competitivo repectuoso co medio, mediante a utilizacion de herramientas de apoio e técnicas para un uso eficiente dos recursos da explotación leiteira</td>
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<td>GERMANY</td>
<td>Smart grazing</td>
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<td>GERMANY</td>
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<td>Y</td>
<td>X X X</td>
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<td>22</td>
<td>SWEDEN</td>
<td>Organic, 100-400 cows</td>
<td>N</td>
<td>X</td>
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<tr>
<td>23</td>
<td>SWEDEN</td>
<td>Organic and non organic, 40-140 cows, milking robots</td>
<td>N X X X</td>
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<tr>
<td>24</td>
<td>SWEDEN</td>
<td>Big dairy farms, about 400 cows</td>
<td>N X X X</td>
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<td>25</td>
<td>THE NETHERLANDS</td>
<td>Starting entrepreneurs (Animal Care 1)</td>
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<td>X</td>
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<td>28</td>
<td>THE NETHERLANDS</td>
<td>Circular dairy</td>
<td>N</td>
<td>X</td>
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<td>29</td>
<td>THE NETHERLANDS</td>
<td>Robot milking</td>
<td>N</td>
<td>X</td>
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<td>30</td>
<td>UK</td>
<td>Farmer Action Groups - reducing reliance on antimicrobials</td>
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<tr>
<td>31</td>
<td>UK</td>
<td>Lean Management</td>
<td>Y</td>
<td>X</td>
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<td>32</td>
<td>UK, NORTHERN IRELAND</td>
<td>Benchmarking and reducing the use of antibiotics on farms</td>
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<td>X</td>
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<td>34</td>
<td>PORTUGAL</td>
<td>Livestock effluents: strategic approach towards agronomic and energetic valorization of flows in the farming activity</td>
<td>Y</td>
<td>X</td>
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<td>33</td>
<td>ITALY</td>
<td>Compost barn for dairy cows in the Parmigiano-Reggiano district: an innovative and sustainable housing system and an alternative to cubicles</td>
<td>Y</td>
<td>X</td>
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<td>ITALY</td>
<td>Dairy cow farming in Parmigiano Reggiano cheese area: innovation and tradition for a sustainable farming and for high quality product</td>
<td>Y</td>
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<td>36</td>
<td>ITALY</td>
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<td>38</td>
<td>ITALY</td>
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<td>FreeWalk housing systems for dairy cows</td>
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<td>SLOVENIA</td>
<td>Implementation of Genomic Selection in small dairy cattle populations</td>
<td>N</td>
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<td>43</td>
<td>SLOVENIA</td>
<td>Entrepreneurship with vision - methods and tools for supporting farmers in making strategic choices</td>
<td>N</td>
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Annex B. List of descriptive leaflets available on the EuroDairy interactive map of Operational Groups

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<td>THE NETHERLANDS</td>
<td>Free walk barns 2.0</td>
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<td>Circular Dairy – Achterhoek/Liemers</td>
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</table>
Operational Group (OG): GP MortellaroManagement

Start and finish date: 1/9/17 – 31/8/19

Location: Belgium, Flanders

EuroDairy Topics:

- Animal Welfare

Objective:

- Mortellaro is a hoof disease that can cause many losses on dairy farms. In this OG they are looking for a best practice solution to reduce this disease

The objectives of the project are:

- To gather and combine the available knowledge on the treatment and prevention of Mortellaro into a practical and affordable protocol for the prevention of this condition.
- To explore the possibilities for innovative, alternative, ecologically and economically sound prevention methods for Mortellaro.
- To examine the influence of the mineral supply and possible prevention methods in the context of biosafety in young stock in order to draw up a protocol for young cattle
- To collect methods for curing this condition and to collect and disseminate information about this.
- Knowledge exchange and discussions leading to a general consensus on both the prevention and the cure of this condition with respect for the environment.
- Carrying out a cost-benefit analysis of existing and alternative possibilities to tackle Mortellaro.

Website: [http://leden.inagro.be/Wie-is-Inagro/Projecten/project/15134](http://leden.inagro.be/Wie-is-Inagro/Projecten/project/15134)

Coordinator name and contact: Inagro, Canniere Evi, [evi.canniere@inagro.be](mailto:evi.canniere@inagro.be)

Partners:

- Inagro
- Universiteit Gent
- Veterenary
- Dierengezondheidszorg Vlaanderen
- 5 Dairy Farmers

Funding Organisations:
Objective:

The project ‘Bedrijfsstikstofbalans’ or ‘company nitrogen balance’ is an European Innovation Partnership (EIP) project. In an EIP the operational groups (OG) are crucial. The members of the OG are farmers, researchers and if needed some extra stakeholders. They work together to find a solution for a problem reported by the farmers themselves. In this project we look at the feasibility of the development of a nitrogen balance on a dairy farm and the possibility to use it as an official measurement to reduce ammonia emissions.

Website: www.innovatiesteunpunt.be

Coordinator name and contact: hanne.leirs@innovatiesteunpunt.be

Partners:

- Inagro
- ILVO
- Hooibeekhoeve
- Boerenbond
- Peeters Iv
- Oostvogels Cis
- LV Den Hamer
- AVEVE

Funding Organisations:
Operational Group: Milk Trading Company (MTC)

Start and finish date: 15/7/17 – 31/12/18

Location: Belgium, Flanders

EuroDairy Topics

Socio-economic Resilience

Objective:

- The establishment of the Milk Trading Company (MTC), DLV seeks to develop a partnership with dairy farmers. The goal is to generate higher and more stable financial margins, using market information on the sale price for milk and the cost of feed inputs;
- The MTC will use different tools, such as the futures market, contracts with customers, price guarantee certificates and margin insurance.

Website: https://www.youtube.com/watch?v=pjyydq-_rmo

Coordinator name and contact: Milk Trading Company - info@dlv.be

Partners:

- Milk Trading Company
- Universiteit Wageningen
- DLV (United Experts)
- Vital Nutrition

Funding Organisations:
Operational Group: Pocketboer

Start and finish date: 1/7/17 – 30/6/19

Location: Belgium, Flanders

EuroDairy Topics

Resource Efficiency

Objective:
The aim is to significantly increase the share of installations that run well in Flanders. An operator can lose 22,000 euros per year if his installation does not run smoothly. It is therefore of great importance for the profitability of the installation that the energy from the manure on these farms is used as optimally as possible. The ecological aspect also benefits from this. Pocket fermentation could be an interesting measure to also address greenhouse gas emissions in the storage of manure. Farmers and knowledge partners join forces to give a new boost to pocket fermentation at existing plants.

Coordinator name and contact: bart.ryckaert@inagro.be

Partners:
- Inagro
- Boerenbod
- Innovatiesteunpnt
- Hooibeekehoeve
- Innolab
- 31 pocketboeren

Funding Organisations:
Operational Group: Smart Weeding, Organic Feeding

Start and finish date: 1/7/17 – 30/6/19

Location: Belgium, Flanders

EuroDairy Topics

Resource Efficiency  Socio-economic Resilience

Objective:

The growers in the operational group must decide on the effectiveness of their weed control for the future. Individually, the investment in modern weeding technology is not feasible and only a basic mechanism is possible. Through mutual cooperation they may be able to gain access to a modern machine park for mechanical weed control with more impact and higher performance as a result. This is the goal of this operational group. In parallel, the relevant machines are mapped out and potential forms of cooperation are tested. Through a demonstration day, the experiences are shared with the general public.

Website: [http://www.ccbt.be/?q=node/3287](http://www.ccbt.be/?q=node/3287)

Coordinator name and contact: Lieven Delanote, Lieven.delanote@inagro.be; Johan Devreese, johan.devreese123@gmail.com

Partners:

- 3 dairy farmers
- 1 organic dairy farmer
- 2 horticulturist
- 1 consultant
- 1 constructor of weeding machines
- 3 suppliers of weeding machines

Funding Organisations:
Operational Group: VEGCAT
Start and finish date: 1/9/17 – 30/8/19

Location: Belgium, Flanders

EuroDairy Topics
- Resource Efficiency
- Socio-economic Resilience

Objective:
The goal of the project is to enhance the collaboration between dairy farmers and horticulture and so improve economic sustainability.

Website: [www.ilvo.be](http://www.ilvo.be)

Coordinator name and contact: ILVO, Sam Decampeneere

Partners:
- Inagro
- Ingro
- Universiteit Gent
- 2 groentetelers
- 1 melkveehouder
- 1 rundveehouder
- Boerenbond
- 2 constructeurs van oOperational Groupstmachines
- 1 constructeur fermentatie-installatie

Funding Organisations:
Operational Group: EuroMaito [EuroMilk] project

Location: Finland

EuroDairy Topics

- Resource Efficiency
- Biodiversity
- Animal Care

Objective:

- Develop competitive strength and profitability of dairy farms in Finland
- Knowledge transfer between farmers, researchers, advisors and education
- To observe and test good practices in milk production at practical level
- Measure resource efficiency of pilot farms in different levels and ways
  - Forage yields
  - Production costs of silage
  - Overall economy of farm
  - Gate balances
- Assess animal welfare of pilot farms using welfare quality protocol
- Assess biodiversity levels of pilot farms

Website: [http://euromaito.savonia.fi/](http://euromaito.savonia.fi/)

Coordinator name and contact:

Natural Resources Institute Finland (Luke), sari.kajava@luke.fi

Partners:

Savonia University of Applied Sciences and ProAgria Rural Advisory Services

Number of farms:

12 pilot farms

Funding Organisations:
Objective:

- What kind of expectations farmers have on recycled fertilizers? The farmer perceptions will be compared to perceptions of fertilizer producers. What are the bottlenecks limiting the use of recycled fertilizers?

- What are the environmental impacts and profitability of processed digestates compared to mineral fertilizers, slurry and un-processed digestates? These alternative fertilizers will be compared in field tests on greenhouse cucumbers, cereal and grass.

- The aim is to encourage collaboration across farmers, researchers and biogas producers.

Website: [http://www.syke.fi/fi-FI/BioRaEE/Hankkeen_esittely](http://www.syke.fi/fi-FI/BioRaEE/Hankkeen_esittely)

Coordinator name and contact: Tanja Myllyviita, Finnish environment institute, [tanja.myllyviita@ymparisto.fi](mailto:tanja.myllyviita@ymparisto.fi)

Partners: Natural Resources Institute Finland (Luke), Biokymppi Oy, Karelia University of Applied Sciences

Number of farms: Several farms provide manure for biogas production.

Funding Organisations: [The European Agricultural Fund for Rural Development](http://www.europa.eu)
Background:

Thermal imaging cameras can be used to detect various common health issues of cattle. Thermal imaging can reveal infection in its early stages even before more visible symptoms are developed. Early detection makes early treatment possible, which means healthier cows and less money spent. However, the use of this technology is limited by the lack of practice-oriented information.

Objectives:

The objective of Kuvaa Nautaa project is to develop a comprehensive information package on the use of infrared thermography in cattle health care. These practical instructions are designed for farmers as well as for veterinarians, hoof trimmers, agricultural experts and other stakeholders.

Method:

- Kuvaa Nautaa project is carried out in close cooperation with farmers and other stakeholders
- Thermal cameras are first tested in experimental farms and then farmers test thermal imaging in their everyday work
- Instructions are based on the practical needs and feedback received from farmers and they include:
  - Recommended equipment
  - Information about how and when thermal imaging can be used
  - Interpretation of thermal images
- Farmers test and improve the instructions
- Our recommendations and findings are published in our website

Website: [kuna.savonia.fi](http://kuna.savonia.fi)

Coordinator name and contact:

Savonia University of Applied Sciences, Salla Ruuska [salla.ruuska@savonia.fi](mailto:salla.ruuska@savonia.fi)

Partners: Natural Resources Institute Finland (Luke)

Number of farms: six cattle farms

Funding Organisations: European Innovation Partnership (EIP) funding
Operational Group: SMARTFEED - Smart measurements in cattle feeding and health [ÄLYREHU]

Start and finish date: 1.1.2018 – 31.8.2020

Location: Finland, Kainuu

Objective:

- Develop methods, tools, analytics and data transfer to create a system for monitoring silage quality, and energy and protein nutrition balance of dairy cows on-site at farms
  - Test handheld devices for monitoring nutritional value of growing grass and to support determination of optimal harvesting time for fodder
  - Develop a tool for easy silage sample collection
  - Develop a quick on-farm method for determination of dry matter in silage and fodder
  - Develop two electrochemical biosensor assays for analysis of nutritional markers in milk to facilitate monitoring of nutritional balance in individual cows
  - Develop data transfer for measurement results to a central database
- Increase efficiency, productivity and competitiveness of the farms by reducing feeding costs and improving cow health
- Decrease the working time needed to silage sample collection and handling, and to analysis and archiving of measurement results

Website: [http://www.oulu.fi/kajaaniuniversityconsortium/smartfeed](http://www.oulu.fi/kajaaniuniversityconsortium/smartfeed)

Coordinator name and contact:

University of Oulu, Kajaani University Consortium, Unit of Measurement Technology (MITY)

[mailto:tuija.kallio@oulu.fi](mailto:tuija.kallio@oulu.fi)

Partners:

ProAgria Kainuu Rural Advisory Services, MTech Digital Solutions Ltd, Semes Ltd, local veterinarian

Number of farms:

8 pilot farms

Funding Organization: [The European Agricultural Fund for Rural Development: Europe investing in rural areas](https://ec.europa.eu/agriculture/en/fund)
Operational Group: Hauts de France

Start and finish date: December 2016 – December 2018

Location: France

EuroDairy Topics

- Socioeconomic Resilience
- Biodiversity
- Animal Care

Objective: (using keywords)

- To identify factors and systems favourable to resilience of dairy farming (social, economical and environmental factors)
- Create / adapt a tool for farmers to help manage resilience (tool to evaluate the farm’s resilience)
- Identify factors for attractiveness of dairy farming to find ways to evaluate and achieve.
- Stimulate exchanges of knowledge and experience within the operational group and outside the group to disseminate EuroDairy work.

Website: http://www.hautsdefrance.chambres-agriculture.fr/techniques-productions/elevage/eurodairy-hauts-de-france/

Coordinator name and contact:

Chambre d'agriculture Hauts-de-France

Castellan Elisabeth elisabeth.castellan@agriculture-npdc.fr

Partners:

19 participants in the OG

= farmers, dairy firms elected farmers, research (IDELE), advisers (Chambres d'agriculture, ACE, BTPL), agricultural school

Number of farms: 12 farms in total - 8 pilot farms

Funding Organisations: Conseil régional des Hauts de France
Operational Group: Résilience Lait Normandie
Start and finish date: 30/03/2016 to 31/12/2019

Location: France

EuroDairy Topics

Socio-economic Resilience

Objective:

- Identify economic and social resilience in different systems
- Characterise measurement criterias and develop adequate measurement tools
- Communication about different actions to improve resilience

Website: https://normandie.chambres-agriculture.fr/eurodairy/

Coordinator name and contact:

Chambre régionale d'agriculture de Normandie

Catherine BAUSSON: catherine.bausson@normandie.chambagri.fr

Partners:

21 participants in the OG
= farmers, dairy firms elected farmers, research (IDELE), advisers (Chambres d'agriculture, Littoral Normand, BTPL), agricultural school

Number of farms: 6 farms in total

Funding Organisations:

Conseil régional de Normandie
Context: As everywhere in the European Union, the end of the administrative management of milk volume and the volatility of the market increased the competition amongst dairy industries, dairy farms and dairy areas. The common challenge lies in the competitiveness of dairy cattle and related sectors. Rhône-Alpes region is involved in these issues.

Dairy managers and representatives are really concerned about the future of dairy farmers in the region: which system, what size, which markets for each territory... They have strongly expressed the need for foresight, comparison with other dairy regions and for solutions to adapt to the new challenges of dairy farming.

Partnership and governance (activity): As a steering committee, the “Progress and experiment council” coordinates this program and follows the tasks with its board of farmers. The technical partners lead the Operational Group and identify innovations and good practices in animal husbandry. All partners and breeders involved in this group bring their complementary points of view on them.

- Pôle d'Expérimentation et de Progrès Bovin Lait : Coordinator
- Rhone-Alp'Elevage (livestock association – Farmers board)
- Farmers
- FIDOCL (milk performance recording organization & technical advices)
- Chambres d'Agriculture (technical and strategic advices)
- Institut de l'Elevage (Idele) (advices & methodological supports)
- Centre d'Elevage de Poisy (Training center for farmers)
- Lycée du Valentin and Cibeins (High school)

Objectives:
Through the networking of farmers, advisors and scientists, this EURODAIRY Rhône-Alpes project aims to:

- Work and exchange ideas with 20 partners from 14 EU countries and main dairy areas (meetings, methods, innovations & demonstration transfer),
- Look forward innovations and good practices from scientific and technical literature, meetings, video exchanges or identified directly on farms
- Try, practice and analyze innovative solutions to get some results, benchmarks and comparison data to develop the competitiveness of dairy farms in Rhône-Alpes region.

Number of Farms: 12 Pilot Farms

Funding Organisations: Centre d'élevage de Poisy – Poisy training center
Operational Group: “Eurel: Producción Dun Leite Competitivo Respectuoso Co Medio, Mediante A Utilización De Ferramentas De Apoio E Técnicas Para Un Uso Eficiente Dos Recursos Da Explotación Leiteira”

Start and finish date: 16/08/2017 -31/10/2019

Location: Lugo, A Coruña y Pontevedra.
Spain

Objective:

Sustainability, through the use efficient farm resources, which combine economic competitiveness and practices that minimize or impact resources on the quality of natural resources (soil, water and air).

- Balance the nutrients (especially N and P)
- Measure the carbon footprint
- Identify and apply the techniques used to balance the nutrients and the carbon footprint.
- Decrease emissions to the environment.
- Make good management. Reduce the purchase of mineral fertilizers and make efficient use of the organic fertilizers
- Exchange of knowledge (innovations).

Websites:
- http://agaca.coop/
- http://www.ciam.gal/
- http://www.capcoruna.com/

Coordinator name and contact:
Maria Rey Campos, +34 982 201 514, mrey@agaca.coop

Partners:
- Unión de Cooperativas, Asociación Galega de Cooperativas Agrarias
- Centro de Investigacións Agrarias de Mabegondo
- Cooperativa Agraria Provincial de A Coruña, S.C.G.

Number of farms: 10

Funding Organisations:
- European Union
- Ministerio de Agricultura y Pesca, Alimentación y Medio Ambiente
- Xunta de Galicia. Consellería de Medio Rural
Operational Group: Granxas de leite galegas en harmonía coa natureza e a biodiversidade agraria.

Start and finish date: June 2017- October 31, 2017

Location: Xanceda, Mesía, A Coruña. Spain

EuroDairy Topics

Biodiversity

Objectives:

- Exchange experiences and knowledge between farms and naturalists, researchers, NGOs, engineers.
- Achieve a natural phytodepuration system in phases.
- Define habitats and species that depend on the activity of dairy farms.
- Identify the most favorable practices for biodiversity.
- Define indicators of good management of agricultural habits for biodiversity.
- Evaluate and compare the soil health of an organic farm with that of a conventional farm.
- Present and disseminate the results in the scientific and technical field, as well as in the fields of the agricultural sector and the European Innovation Association.

Website:

- [http://agaca.coop/](http://agaca.coop/)
- [http://www.casagrandexanceda.com/](http://www.casagrandexanceda.com/)

Coordinator name and contact: María Rey Campos, +34 982 201 514, mrey@agaca.coop

Partners:

Number of farms: 1 (Casa Grande de Xanceda)

Funding Organisations:

European Union, Ministerio de Agricultura y Pesca, Alimentación y Medio Ambiente, Xunta de Galicia.

Consellería de Medio Rural
Operational Group: Optimising use of farm organic amendments in agriculture
January 2018 to December 2019

Location: Alava

Keywords: nutrient recycling, organic residues, crops.

Objectives:

Setting-up collective manure management in which the exceeding slurry from 7 dairy farms is stored in a big slurry pit with floating cover.

This storage will guarantee organic fertiliser availability to crop fields when required. Fertilisation will take place under fertilising programmes, thus, decreasing environmental impact. Also the system effect on GHG emissions will be evaluated using farm gate modelling approach.

Coordinator: Lurdes Nafarrate

Partners: 7 Farmers, 8 Agricultural farmers, ABERE, NEIKER

Funding Organisations:
Optimized pasture management – Smart grazing

Start date 1st of June 2015 Finish date: 31st of May 2018

Location: Germany

EuroDairy Topics

Resource efficiency  Biodiversity  Animal Care

Objective:

The overall objective of the OG is to gather the performance potential of pasture in terms of yield and quality in the main landscape-types of Schleswig Holstein.

From this measured data, a model "smart grazing" (a forecasting tool) should be developed that is able to operate in conjunction with the predictions of the German Meteorological Service to provide real – time data on current growth rates and feed quality parameters on a high technical level (mobile app) and, together with pilot-farms, identify landscape type-specific problems of grazing and provide solutions for these.

Website: http://www.eip-agrar-sh.de/en/eip-innovationprojects/ Coordinator

name and contact:

Prof. Dr. Friedhelm Taube, University of Kiel, DE-24118 Kiel Tel.: 004949431-8802134, ftaube@gfo.uni-kiel.de

Funding Organisations:

Partners:

Lead Partner: University of Kiel, Institut für Pflanzenbau und Pflanzenzüchtung Hermann-Rodewald-Str. 9, DE-24118 Kiel (Research organisation)

Participating Farmers: Henrik, Butenschöhn Nico, Hellerich Hans Möller, Klaus Groenewold Bert, Riecken

Private company from the agricultural sector: Seed company: Norddeutsche Pflanzenzucht – Dr. Bernhard Ingwersen

Research and research transfer centers: Landwirtschaftskammer SH - Dr. Matthias Müller
Kompetenzzentrum Milch - Nadine Schnipkowitz
Thünen Institut für ökologischen Landbau- Dr. Kerstin Barth

Advisory centers:

Grundwasserschutzberatung Nord - Dr. Heidi Schröder
VRS Steinburg e.V. - Alexandra Becker
LLUR, Flintbek - Sabine Rosenbaum

Non profit organisations: Deutscher Verband für Landschaftspflege - Dr. Helge Neumann
Optimal adjustment and regular review of the function, setting and equipment of milking systems and knowledge about their effect on udder health and milk production have a direct impact on the welfare and health of animals.

The project is focused on developing and evaluating a sound analysis tool to support farmers in identifying the weaknesses of milking systems. The OG’s (operational group) goal is to develop an innovative, technology-based analysis tool (electronic analysis tool, e.g. for smartphones or iPads) to highlight weaknesses in milking systems through a bottom-up process, in conjunction with those involved in the OG. This can then be used by everyone to comprehensively assess milking systems, produce a weakness analysis and use this to derive practical measures for action that can be implemented directly. The analysis tool is to enable standardized, practical data acquisition and also to support the farmer in the interpretation and evaluation of the assessed milking system.

Coordinator name and contact: Prof. Dr. Eberhard Hartung, University of Kiel, DE-24118 Kiel Tel.: 0049431-8802107, ehartung@ilv.uni-kiel.de

Lead Partner:
Forschungs- und Entwicklungszentrum Fachhochschule Kiel GmbH Schwentinestr. 24, DE 24149 Kiel, Björn Lehmann-Matthaei
Tel: 0049 431-2184444, lehmann-matthaei@fh-kiel-gmbh.de

Participating Farmers: Christian Pahl Mathias Melfsen Frederik Robert Lutze Gut Dummerstorf

Research and research transfer centers: University of Kiel, Institut Landwirtschaftliche Verfahrenstechnik - Prof. Dr. Eberhard Hartung, University of applied Science Kiel, FB Agrarwirtschaft - Prof. Dr. Urban Hellmuth, Thünen Institut für ökologischen Landbau- Dr. Hans Marten Paulsen

Advisory centers: Landwirtschaftskammer Niedersachsen - Dr. Michael Hubal Landwirtschaftskammer NRW - Andreas Pelzer

Non profit organisations: Landeskontrollverband Schleswig-Holstein e.V. (LKVS.-H.), Kiel- Hergen Rowehl

Funding Organisations:
Grassland Nutrient Management
Start date 1st of June 2015 Finish date: 31st of May 2018

Location: Germany

Objective: Due to competition for land and because of legal conditions which serve environment protection, innovations in grassland farming are needed. Nutrient management plays a major role in this. Therefore the aim of this project is to develop innovative, locally adapted management strategies for an optimized nutrient management in grassland of Northern Germany (Schleswig-Holstein). For this purpose data is collected on the project’s pilot farms under practical conditions. The pilot farms are located in typical grassland areas of the country. The collected data includes information about soil nutrient values, grass growth patterns and sward condition. Exact scientific tests will accompany these surveys.

At the end of the project period the Operational Group will perform a weak spot analysis in order to develop a tool for decision support for grassland farms. Website: http://www.eip-agrar-sh.de/en/eip-innovationprojects/

Coordinator name and contact: Prof. Dr. Conrad Wiermann, University of applied science Kiel, DE-24783 Osterrönfeld, Tel.: 00 49 4331-845130, conrad.wiermann@fh-kiel.de

Lead Partner:
Landwirtschaftskammer SH - Dr. Mathis Müller Grüner Kamp 15-17 DE-24768 Rendsburg 0049 4331-9453300, mmueller@lksh.de

Participating Farmers: Heiko Reiher
Hans Eggert Rohwer Olaf Oldach
Christof Kirst Henning Gnutzmann Kirsten Wosnitza Ose Jensen Ferdinand Feddersen Lorenz Carstensen Florian Sachau

Research institution and research transfer centers:
University of Kiel, Institut für Pflanzenbau und Pflanzenzüchtung Prof. Dr. F. Taube Hermann-Rodewald-Str. 9, DE-24118 Kiel
University of applied science Kiel, Prof. Dr. Conrad Wiermann Am Kamp 11, DE-24783 Osterrönfeld

Advisory centers:
Agrarberatung Mitte - Erika Selck Landberatung Mitte - Ute Hebbeln Agrarberatung Nord e.V. Jan Hinnerk Alberti

Funding Organisations:
Objective: The process of intensive planning is based on assessment criteria and sub-criteria for sustainable animal housing systems, which were only applied in an elective module in the department agricultural studies at the University of Applied Science Kiel. Novel ideas for animal housing systems should be assessed in practice to ecological, economic and social sustainability already during the planning phase.

The aim of the OG ' InnoBau ' is to support sustainable innovation in agricultural construction with a new, systematic decision-making process. For this, the group develop and test with participating companies from Schleswig-Holstein, Germany, a tool for a systematic planning management, which is suitable in practice.

Coordinator name and contact: Prof. Dr. Urban Hellmuth, University of applied science Kiel, DE-24783 Osterrönfeld
Tel.: 00 49 4331-845140, urban.hellmuth@fh-kiel.de

Lead Partner: Forschungs- und Entwicklungszentrum Fachhochschule Kiel GmbH Schwentinestr. 24, DE 24149 Kiel, Björn Lehmann-Matthaei
Tel: 0049 431-2184444, lehmann-matthaei@fh-kiel-gmbh.de

Participating Farmers: Ernst Metzger-Petersen, Harald und Yannick Rzehak Dirk Kock-Rohwer, Thomas Scharmer und Frank Scholz Jens Olufs, Jörg Riecken

Research and research transfer centers:
University of Kiel, Institut Landwirtschaftliche Verfahrenstechnik - Prof. Dr. Eberhard Hartung
University of applied Science Kiel, FB Agrarwirtschaft - Prof. Dr. Urban Hellmuth
Prof. Dr. Yves Reckleben Prof. Dr. Stefan Krüger

Non profit organisations:
Arbeitsgemeinschaft Landtechnik und Bauwesen SH e.V. Prof. Dr. Urban Hellmuth

Funding Organisations:
Objective: The feeding of Schleswig-Holstein dairy cows is constantly calculated and optimized by specialized advisors and experts of feed suppliers. A question that arises when implementing diets with reduced protein content but not yet answered and analyzed is: How much protein requires the dairy cow really or how can we make the feeding more N-efficient?

The OG Milk - feed & feeding aims with the innovation project to contribute to the efficient use of protein feed for dairy cows. The reduction of protein content in the total ration leads to decreased nitrogen excretion via the liquid manure and therefore to a reduction of nitrate loads from animal excrement into the environment. Of this project should also increasingly come from native production to guarantee a GMO-free feeding for the consumers.


Coordinator name and contact: Prof. Dr. Georg Thaller, University of Kiel, DE-24118 Kiel Tel.: 0049431-8807329, gthaller@tierzucht.uni-kiel.de

Lead Partner: University of Kiel, Institut für Tierzucht und Tierhaltung Hermann-Rodewald-Str. 6, DE-24118 Kiel (Research organisation)

Participating Farmers: Dirk Richtelsen Joachim Schoof

Private company from the agricultural sector: ATR Landhandel - Helmut Pförtner

DLG Danmark - Marie Løvendahl Raun

HaGe Kiel - Stefan Neumann und Stefan Plähn

Research and research transfer centers: Landwirtschaftskammer SH - Dr. Johannes Thaysen Kompetenzzentrum Milch - Nadine Schnipkoweit

Advisory centers: Agrarberatung Nord - Uwe Bäumer Agrarberatung Mitte - Thomas Bahr

Non profit organisations: Bundesverband Deutscher Milchviehhalter – Kirsten Wosnitza

Funding Organisations:
Operational Group: Organic, 100-400 cows
Start and finish date: 171201-181231

Location: Sweden

EuroDairy Topics
Resource Efficiency   Animal Care   Socio-economic Resilience

Objective:
EDF; expansion possibilities; timesaving operations; organic production

Coordinator name and contact: Pernilla Salevid

Number of farms: 7 farms

Funding Organisations: Jordbruksverket, LRF, LRF Konsult, Växa
Operational Group: Organic and non organic, 40-140 cows, milking robots

Start and finish date: 171201-181231

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<thead>
<tr>
<th>Location : Sweden</th>
<th>EuroDairy Topics</th>
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<td></td>
<td>Resource Efficiency</td>
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Objective:
EDF ; expansion possibilities ; timesaving operations (lean)

Coordinator name and contact: Pernilla Salevid

Number of farms: 6 farms

Funding Organisations: Jordbruksverket, LRF, LRF Konsult, Växa
Operational Group: Big dairy farms, about 400 cows

Start and finish date: 171201-181231

Location : Sweden

EuroDairy Topics

- Resource Efficiency
- Animal Care
- Socio-economic Resilience

Objective :

EDF ; expansion possibilities ; timesaving operations ; enviroment issues that make differs for cow comfort and production volume

Coordinator name and contact: Pernilla Salevid

Number of farms: 8 farms

Funding Organisations: Jordbruksverket, LRF, LRF Konsult, Växa
Operational Group: Starting entrepreneurs

Start and Finish date: January 2017 – April 2019

Location: 12 dairy farmers across Brabant

EuroDairy Topics

- Animal Care

Objective: This group gets better insight in their dairy management via OPTIcow, a dashboard that ZLTO developed. This dashboard is combining economic and technical figures. Beside that the most important topics of this group are new animal care aspects, low antibiotic use and technologies around animal care to detect diseases in an early stage.

Website: -
Coordinator: Janine Roemen, ZLTO
Contact: yvonne.daandels@zlto.nl
Partners: 11 dairy farmers that are members from ZLTO
Funding Organisations: LIB, ZLTO and participating farmers
Operational Group: Young farmers study group

Start and Finish date: January 2017 – April 2019

Location: 12 dairy farmers across Brabant

EuroDairy Topics

Animal Care

Objective: This group gets better insight in their dairy management via OPTIcow, a dashboard that ZLTO developed. This dashboard is combining economic and technical figures. Beside that the most important topics of this group are new animal care aspects, low antibiotic use and technologies around animal care to detect diseases in an early stage.

Website: -
Coordinator: Janine Roemen, ZLTO
Contact: yvonne.daandels@zlto.nl
Partners: 12 dairy farmers that are members from ZLTO
Funding Organisations: LIB, ZLTO and participating farmers
Operational Group: Free walk barns 2.0

Start and finish date: 2012 – April 2018 EuroDairy

Location: 15 dairy farmers across the Netherlands

EuroDairy Topics

Animal Care

Objective: A so called free walk barn for dairy cows is characterized by no cubicles, an alternative floor instead of concrete and more square meters per cow for lying and moving. Participating dairy farmers in this group want to further improve this innovative system especially regarding the organic bedding materials and management. Animal health, especially claws, udder health and fertility are monitored as the main objective is to increase longevity (how long a cow stays in the herd).

Website: www.vrijloopstallen.nl
Coordinator: Bram den Hollander, IDV-advisory.
Contact: In Dutch bram@idv-advies.nl or in English: koops@zuivelnl.org
Partners: 15 dairy farmers in cooperation with a supplier of roof material and research.
Executed by IDV-advisory.

Funding Organisations: National government and participating farmers.
Operational Group: **Circular Dairy** – Achterhoek/Liemers
Start and finish date: January 2014 – December 2019
EuroDairy Topics: Resource Efficiency
Location: 250 dairy farms in the eastern part of the Netherlands
Number of EuroDairy pilot farms: 2

Objective: A regional positioning of a sustainable Agricultural area by:
- Improving nutrient use efficiency at farm and regional level
- Improving soil fertility and water use efficiency
- Knowledge exchange
- Multi-actor approach

Website: [http://vruchtbarekringloopachterhoek.nl](http://vruchtbarekringloopachterhoek.nl)

Coordinator name and contact: Carel de Vries – devriesprojectregie@planet.nl
Coordinator for EuroDairy: Johan Temmink – johan.temmink@forfarmers.eu

Partners: LTO Noord, ForFarmers, FrieslandCampina, Rabobank, Waterschap Rijn en IJssel, Vitens.

Funding Organisations:
Objective: This group is working on better insight in technical and economic performance, and monitoring individual cow management to improve this. Beside that this group is looking for high tech welfare tools, robotics (SensOor) and technologies around farming and work efficiency.

Website: -
Coordinator: Tim van Houtum, ZLTO
Contact: yvonne.daandels@zlto.nl
Partners: 14 dairy farmers that are members from ZLTO
Funding Organisations: LIB, ZLTO and participating farmers
Operational Group: Farmer Action Groups - reducing reliance on antimicrobials

Start and finish date: 8th February 2016 – 28th February 2019

Location: Dolberry Building, Bristol Vet School, Faculty of Health Sciences, University of Bristol, BS40 5DU

EuroDairy Topics:

- Animal Care

Objective:

- To establish and follow the progress of 5 Farmer Action Groups across the South West of England as they co-create a series of Action Plans to reduce their need and usage of antimicrobials on farm.
- To understand the barriers and drivers for this sort of participatory project, and how applicable it could be for policy making in this area.
- Approximately 35 further meetings to be held to follow up on the farmer-led Action Plans, and to measure and assess how effective they have been in creating real on-farm change (Has there been a reduction in antibiotic use? Has the herd health improved?).
- Plans are in process to hold a farmer away-day at Bristol Veterinary School to discuss results from the project, and inform policy makers on tacking antimicrobial use.

Website & Newsletters:

http://www.agricology.co.uk/farmer-led-policy-leading-way-reducing-antibiotic-use-farm

https://www.fginsight.com/vip/vip/can-we-learn-to-farm-without-antibiotics-16178

http://www.bristol.ac.uk/vetscience/people/lisa-c-morgans/index.html

Coordinator name and contact: The project coordinator, Lisa Morgans BVSc MRCVS, is studying for a PhD supervised by Professor D.C.J. Main and Dr K.Reyher at the University of Bristol.

Partners: 5 farmer action groups & University of Bristol

Number of farms: 33 Farmers

Funding Organisations (names and logo): AHDB Dairy and The Langford Trust
Operational Group: Dairy lean management

Start and finish date: 1/4/2018 – 31/12/2020

**Location**: Reaseheath College, Nantwich, Cheshire, CW5 6DF

**EuroDairy Topics**

- Resource Efficiency
- Socio-economic Resilience
- Biodiversity

**Objective:**
To develop and trial an integrated data management system and test its ability to effectively support the implementation of LEAN management on pilot farms. The aim is for the software to store, in one place, all the data required to manage production from planning to sales, and provide reports on progress against targets in real time, resulting in improved economic performance. Through the inclusion of environmental KPI's in the system, the project will demonstrate to the wider dairy industry how production and sustainability can be planned for and delivered simultaneously.

**Website**: www.reaseheath.ac.uk

**Coordinator name and contact**: Annette McDonald AnnetteM@reaseheath.ac.uk

**Partners**: Nine Dairy Farmers, Reaseheath College, IT Software Consultants, Independent Dairy Lean Expert, Agriculture and Horticulture Development Board (AHDB)

**Project supporters**: National Farmers Union (NFU), Natural Resources Wales (NRW), Natural England, DEFRA, Keele University.

**Funding Organisation(s)**: Rural Development Programme for England (RDPE)
Operational Group: Benchmarking and reducing the use of antibiotics on farms
January 2018 to December 2019

Location

EuroDairy Topics

Animal Care

Objective: The overall objective of the project is to by December 2020 develop, evaluate and implement on several farms a veterinary medicine recording and benchmarking system at farm and individual animal level integrated with quality assurance. Risk assessments related to two areas where antibiotic use is common will be developed, complete with step through decision support tools suitable for both farmer and veterinary practitioner with the impact of implementation quantified.

The outcome of the project will be a ready to implement system, with quantifiable financial and animal health benefits that would enable NI agriculture to respond to concerns over antibiotics use in food producing animals.

Impact of the system if then rolled out to NI

- Reduce incidence of animal ill health leading to less antibiotic use delivered through a better understanding of antibiotic use and development of strategies to more strategically use antibiotics in conjunction with health plans and risk.
- Increased marketability in local and international markets. Use of antibiotics in production of food for human consumption is of growing concern. Having a robust system in place, particularly considering potential Brexit impacts enables NI to monitor/review and provide assurance of responsible antibiotic use. A must have to remain competitive and deliver on UK and EU antibiotic use targets.

Enhance produce confidence. By conveying the fact that at an NI level we robustly monitor antibiotic use at farm and animal level, producer confidence can be built in the supply chain helping drive the consumption of locally produced food

Detailed Objectives:

1. Develop prototype system to capture and monitor antibiotic use at farm level for potential integration into livestock assurance schemes
2. Design, after reviewing international practices and stakeholder discussion, a practical veterinary medicine benchmarking system for dairy, beef and sheep farmers.
3. Deploy, test and refine benchmarking system with several commercial farms and veterinary practices.
4. Design and test potential smart systems to capture antibiotic and vaccine use at an animal level with minimal producer input
5. Develop, implement and review the impact of risk assessments and decision support tools related to dry cow therapy and calf rearing on pilot livestock farms. Quantify the impact in terms of antibiotic use, animal health and financial returns.
6. Develop a user-friendly decision support/risk assessment package to target the two specific case study areas that could be rolled out within the supply chain

Coordinator name and contact: Jason Rankin jason@agrisarch.org

Partners: AgriSearch, Agri-Food & Biosciences Institute, Vet Farm Systems Ltd, Animal Health and Welfare Northern Ireland, Northern Ireland Beef and Lamb Farm Quality Assurance Scheme

Number of farms: multiple (exact numbers to be confirmed) Funding Organisations

Department of Agriculture Environment and Rural Affairs for Northern Ireland (via the Research Challenge Fund)

AgriSearch (The Northern Ireland Agricultural Research and Development Council)
Operational Group: Livestock effluents: strategic approach towards agronomic and energetic valorization of flows in the farming activity

Start and finish date: 02/01/2018 – 31/12/2020

Location:

Resource Efficiency  Socio-economic Resilience

Objective:

- Valorize livestock effluents as a resource, focusing on the production and integrated management of the different flows generated;
- Optimize effluents use as secondary raw materials, recovering energy and nutrients, improving farm nutrient balances and promoting sustainable management.

Website: Not available yet

Coordinator name and contact: Olga Moreira (email: olga.moreira@iniav.pt)

Partners:

- Instituto Nacional de Investigação Agrária e Veterinária
- Instituto Superior de Agronomia
- Universidade de Trás os Montes e Alto Douro
- Universidade de Évora
- Associação Portuguesa de Criadores da Raça Frísia
- Associação Portuguesa dos Industriais de Alimentos Compostos para Animais
- Federação Portuguesa das Associações de Suinicultores
- CAMPOAVES
- VALORGADO
- ALIRAÇÕES
- TTerra-Engenharia e Ambiente, Lda.
- Leal & Soares, SA
- Ingredient Odyssey

Number of farms: 2 farms

Funding Organisations:

[Logos of various funding organisations]
Operational Group: Compost barn for dairy cows in the Parmigiano-Reggiano district: an innovative and sustainable housing system and an alternative to cubicles

Start and finish date: June 2016 - May 2019

Location: Emilia-Romagna, Italy

EuroDairy Topics

Animal Care  Resource Efficiency

Objective:

- Evidence positive and negative aspects of using a Compost barn as cow housing system in the reality of Parmigiano Reggiano cheese
- Provide possible typologies of compost barns which are compatible with the climate of the Po Valley and with the predominant housing systems in the Parmigiano-Reggiano district
- Improve animal welfare, working environment of employees and improve the economic performance of dairy cattle farms

Website: [http://compostbarn.crpa.it/](http://compostbarn.crpa.it/)

Coordinator name and contact: Matteo Barbari – matteo.barbari@unifi.it


Number of farms: 7

Funding Organisations: EU and Emilia-Romagna Region
Operational Group: Dairy cow farming in Parmigiano Reggiano cheese area: innovation and tradition for a sustainable farming and for high quality product

Start and finish date: June 2016 – May 2019

Location: Emilia-Romagna, Italy

EuroDairy Topics

Animal Care  Resource Efficiency

Objective:

- Develop new dairy products linked to the values of the feed system and the animal welfare
- Re-orienting cow longevity working on a better equilibrated feed ration more based on forages
- reduce production peaks and the antibiotic use

Website:

http://www.lattemilia.com

Coordinator name and contact: Luisa Antonella Volpelli - luisaantonella.volpelli@unimore.it


Number of farms: 9

Funding Organisations: EU and Emilia-Romagna Region
Operational Group: Happy milk, a decision support system to improve the efficiency of dairy farms in the Parmigiano-Reggiano district

Start and finish date: July 2016 – June 2018

Location: Emilia-Romagna, Italy

EuroDairy Topics
Animal Care Resource Efficiency Socio-economic Resilience

Objective:
- Improve the efficiency of the dairy farms in the Parmigiano-Reggiano district by developing a decision support system (DSS), based on the modernization of dairy farms, animal welfare, management and hygienic and sanitary parameters
- Design a diagnostic tool and warning system for the main indicators of farm efficiency

Website: [http://happymilk.crpa.it/](http://happymilk.crpa.it/)

Coordinator name and contact: Paolo Rossi – p.rossi@crpa.it


Number of farms: 10

Funding Organisations (names and logo): EU and Emilia-Romagna Region
Operational Group: Improvement of forage systems in support of the production of pdo Parmigiano Reggiano Cheese "Product of the Mountain" in the valleys of the Apennine area of Tassobbio river

Start and finish date: September 2016 - July 2019

Location: Emilia-Romagna, Italy

EuroDairy Topics:

- Biodiversity
- Spcio-economic Resilience
- Resource Efficiency

Objective:
- Improve the feed management of dairy cows for Parmigiano Reggiano farms
- Get the most nutritional value from the forages included in the ration
- Support the production of milk for farms that have already embarked on a path of exploitation of their Parmigiano-Reggiano cheese Mountain product, but need to strengthen agricultural and livestock production

Website: http://latteriasangiorgio.crpa.it

Coordinator name and contact: Maria Teresa Pacchioli – m.t.pacchioli@crpa.it

Partners: Latteria Sociale San Giorgio di Cortogno, Cooperativa Agricola Santa Lucia, Azienda Agricola Strada, Azienda Agricola Il Ponte, Azienda Agricola NASI, Research Centre on Animal Production – CRPA spa, Fondazione CRPA Studi Ricerche

Number of farms: 10

Funding Organisations (names and logo): EU and Emilia-Romagna Region
Operational Group: Economic and environmental metabolic model as a tool for future sustainable dairy farms for Parmigiano Reggiano cheese

Start and finish date: July 2016 – June 2018

Location: Emilia-Romagna, Italy  

EuroDairy Topics:  
Animal Care Resource efficiency Socio-economic Resilience

Objective:
- Application of the metabolic model and analysis to a farm of Parmigiano Reggiano district conceived as a living being
- Assess the economic and environmental performance (carbon footprint, water footprint and energy consumption) and identify the production phases with the highest cost and environmental impact
- Identify cost-effective practices to mitigate the environmental impact in terms of GHG emissions, energy consumption and water use

Website: [http://modellometabolico.crpa.it](http://modellometabolico.crpa.it)

Coordinator name and contact: Carlo Bisaglia – carlo.bisaglia@crea.gov.it

Partners: Research Centre on Animal Production - CRPA spa, CRA - Unità di ricerca per l'ingegneria agraria - CREA- ING, Società Agricola Bastardi F.lli Enzo e Villiam, Società Cooperativa Agricola Stalla Sociale Piazzola di Bibbiano, Azienda Agricola Simonazzi Aurelio, Ernesto e Landini Mirte S.S

Number of farms: 3

Funding Organisations (names and logo): EU and Emilia-Romagna Region
Operational Group: Development of a livestock model of the agro-silvo-pastoral biodiversity

Start and finish date: December 2017 – November 2019

Location: Emilia-Romagna, Italy

EuroDairy Topics

Biodiversity Resource efficiency

Objective:
- Identify a biodiversity measurement method suitable for different farming conditions
- Assessing the externalities of biodiversity related ecosystem services
- Create a computer support available on the web to allow to other farms the assessment of biodiversity in an autonomous, simple and rapid way (self assessment)

Coordinator name and contact: Aldo Dal Prà – a.dalpra@crpa.it

Partners: Research Centre on Animal production - C.R.P.A. spa, Azienda Agricola Del Gigante di Valcavi Daniele, Azienda Agricola Iris di Avanzini Umberto Davide Iris e Cecchi Carolina Società Agricola, Horta srl

Number of farms: 2

Funding Organisations (names and logo): EU and Emilia-Romagna Region
Objective:

- To research and further develop free walk cattle farming systems that improve animal welfare, longevity and manure quality,
- Increase capital efficiency, while addressing environmental impacts.
- This system is expected to improve the social and economic resilience of farming.

Innovations:

- Housing like in meadow - animal welfare and health, society perception
- Composted material as bedding – re-using and as soil improver
- Combination of housing and grazing
- Diversification / eco-farming - utilization housing facility and bedding material in summer for plant growing or for pigs / poultry ...

Website: www.freewalk.eu

Coordinator name and contact:

- University of Ljubljana (UL), Biotechnical Faculty, Department of Animal Science, Groblje 3, 1230 Domžale
  Dr. Marija Klopčič - Marija.Klopcic@bf.uni-lj.si

Partners:

- UL – Biotechnical Faculty, Dept. of Animal Science (coordinator)
- 10 farmers (2 case farms, 3 reference farms, 5 pilot farms)
- Chamber of Agriculture and Forestry of Slovenia – Department for Performance Recording and Breeding (technical advices, milk recording data)

Funding Organisations:
Operational Group: Young Stock Management (with emphasis on the Newborn Calf & Colostrum Management)

Start and finish date: April 2018 to March 2021

Location: Slovenia

Objective:
- To improve young stock rearing, health status and growth rate of young dairy cattle from birth till first calving
- To produce strong, healthy, well grown calves that will continue to develop steadily after weaning
- To reduce loose of calves in first 6 months and in later stage with introducing and practice good young stock management
- To reduce costs of rearing young stock
- To develop simple guidelines of successful young stock management (protocols) for local circumstances

Website: www.holstein.si Coordinator name and contact:
- University of Ljubljana (UL), Biotechnical Faculty, Department of Animal Science, Groblje 3, 1230 Domžale
  Dr. Marija Klopčič - Marija.Klopcic@bf.uni-lj.si

Partners:
- UL – Biotechnical Faculty, Dept. of Animal Science (coordinator)
- 12 farmers with HF cows (6 pilot farms, 6 reference farms)
- Chamber of Agriculture and Forestry of Slovenia – Extension Service
- Slovenian Holstein Association

Funding Organisations:

Slovenian Holstein Association
Operational Group: Implementation of Genomic Selection in small dairy cattle populations

Start and finish date: November 2016 to October 2019

Location: Slovenia

Objective:

- To develop an action plan for the implementation of genomic selection in the herds of Holstein-Friesian breed - the case of a small HF population in Slovenia
- Genotyping of HF male and female animals with the aim of discovery genetic defects (e.g. CVM, BLAD...), genetic features (RC, kappa caseins, lactoglobulins, ...), inbreeding estimates, parentage verification, ...
- To establish a reference population for the Holstein-Friesian population in Slovenia on the base of bulls and cows
- The possibility of cooperation with InterGenomics-Holstein - for the international comparison of genomically tested bulls

Website: www.holstein.si Coordinator name and contact:

- University of Ljubljana (UL), Biotechnical Faculty, Department of Animal Science, Groblje 3, 1230 Domžal Dr. Marija Klopčič - Marija.Klopcic@bf.uni-lj.s

Partners:

- UL – Biotechnical Faculty, Dept. of Animal Science (coordinator)
- ≈125 farmers with HF cows (farmers with HF bull dams)
- Chamber of Agriculture and Forestry of Slovenia – Department for Performance Recording and Breeding (technical support, milk recording data)
- Agricultural Institute of Slovenia (Herdbook data, MR data)
- Slovenian Holstein Association

Funding Organisations:

- Ministry of Agriculture Forestry and Food
- Slovenian Holstein Association
- Slovenian Research Agency (ARRS)
Operational Group: Entrepreneurship with vision - methods and tools for supporting farmers in making strategic choices

Start and finish date: September 2011 to August 2020

Location : Slovenia

EuroDairy Topics

Resource Efficiency Socio-economic Resilience

Objective:

- To instruct dairy farmers and advisors how to prepare a farm strategy with vision
- To improve entrepreneurship competencies of dairy farmers, young farmers, advisors, and agricultural students;
- To assess the local agricultural framework conditions by a context analysis in order to adapt the ISM method and understand the outcomes of the training process;
- To make the ISM method more applicable to market oriented development paths and adding the marketing module;
- To add a business planning module for economic assessment of dairy farmer choices;
- To introduce the concept of networking to stimulate social entrepreneurship;
- To evaluate the effects of the trainings and use of ISM tools;

Website: http://ism.sggw.pl/ Coordinator name and contact:
- University of Ljubljana (UL), Biotechnical Faculty, Department of Animal Science, Groblje 3, 1230 Domžale, Dr. Marija Klopčič - Marija.Klopcic@bf.uni-lj.si

Partners:
- UL – Biotechnical Faculty, Dept. of Animal Science (partner in ISM+ project)
- ≈ 100 dairy farmers from Slovenia
- Chamber of Agriculture and Forestry of Slovenia

Funding Organisations: