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Building synergies between Horizon 2020 and EIP-AGRI Operational Groups

The EuroDairy Thematic Network

Ray Keatinge, Network Coordinator (AHDB)

AgriResearch Conference, Innovating for the Future of Farming and Rural Communities, 2-3 May, 2018

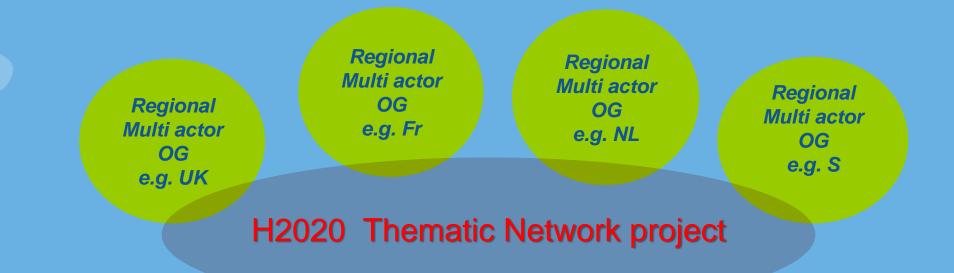
First some definitions !

'Thematic Network'

- 'Multi-actor' group focussed on sharing knowledge on innovation and best practice cross border
- Measure funded under Horizon 2020 (European Innovation Partnership)
 Operational Group'
 - Regional 'Multi-actor' group focussed on a particular problem, constraint or opportunity
 - Combining scientific and practice based knowledge
 - Developing and innovating to produce implementable solutions
 - Which can be demonstrated & shared more widely
 - Measure funded under <u>Regional Rural Development Programmes</u>



EuroDairy Thematic Network links Regional Operational Groups





EuroDairy focus on common challenges for EU dairy farmers

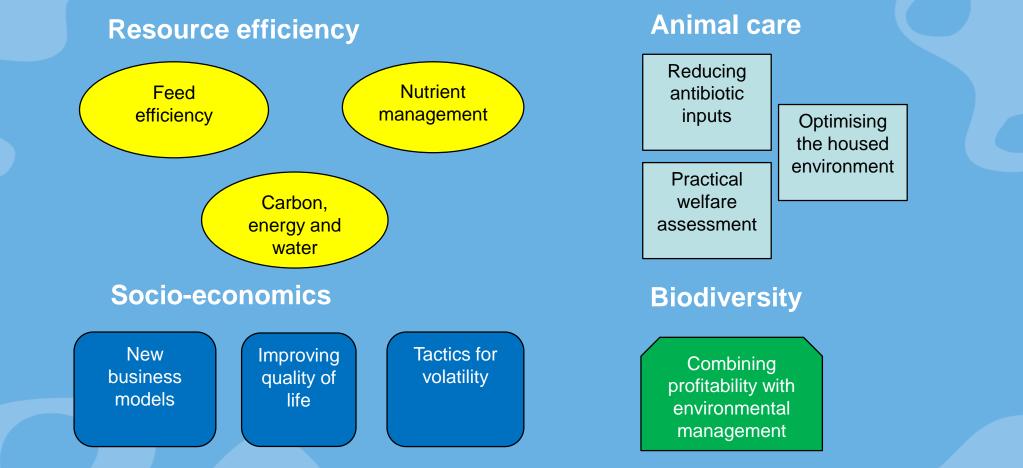
- Long-term price volatility
- Relative competitiveness
- Environmental regulation
- Societal scrutiny of animal production
- Quality of life for farmers
- Industry development infrastructure, land mobility, succession

No soft landing post milk quotas





Economic, social & environmental sustainability – EuroDairy themes for innovation & best practice





`Engine room' of EuroDairy – 120 Pilot farmers







- £1 million of seed capital invested to brine life back to a redundant dairy unit 428 ha agriculture area
- 273 he grazing platform
- Workforce: 5 full time and in hand

- · 20% return on tenant's capital
- finance
- weight in milk solids
- cow/year Build up to 1000 cows
- Increase milk from forage to 3500
- 2018 year business profit of at least



GB







GB

Innovations

Neil & Jane Dyson

- · Attention to detail with minimal use of technology
- 0% mortality of replacement heifers reared in a high bio-security unit
- Graduate training programme to encourage staff personal development
- Use of sex semen is being trialled and compared against non-sex semen
- Slurry separation to exchange muck for straw with arable neighbour
- Fresh calvers temperature and blood ketone levels are monitored
- Monitor dry cows urine pH to balance Dietary Cation-Anion Balance (DCAB) diets to eliminate milk fever Rumen fluid samples taken to help.
- balance feed rations
- · Scientific methodology to calculate quantity of feed offered
- · Genomic breeding is used on two-thirds of the herd. Traits for milk yield, solids and less and feet are selected
- in the top 10% of Aris farms for low carbon footorint due to a biomass boiler. solar panels and exclusion of soya from the rations

Areas of interest

Staff management



- litres/cow/year
- Spence/litre

- 19% profit retained after rent and
- Mature cows yielding their body
- Reduce concentrate use to 700ke

- machinery operations Aspirations



`Engine room' of EuroDairy – 42 Operational Groups



Objective:

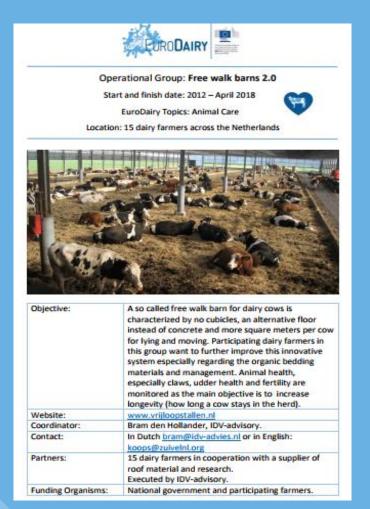
- · Identify economic and social resilience ways in different systems
- characterize measurement criterias and develop adequate measurement tools
- Communication about différents actions to improuve resilience

Number of farmers: 7

Website: http://www.chambre-agriculture-normandie.fr/ (not available yet)

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







EuroDairy recruitment: 'Official' & 'non-Official' OG's

Country	Total	RDP	Non RDP	Country	Total	RDP	Non RDP
France	3	2	1	Denmark	0	-	-
Italy	6	6	-	Ireland	0	-	-
Belgium	6	6	-	Slovenia	0	-	-
Germany	7	7	-	Portugal	1	1	-
Finland	1	1	-	Sweden	3	1	2
Spain	3	3	-	UK	3	1	2
Poland	0	-	-	Netherlands	5	-	5

28 'Official' ; 10 'Unofficial'



Synergy of Operational Groups & Thematic Networks
Network Offer Operational Group offer

- Knowledge exchange across borders
 Demand-driven access to expertise
- Intelligence on OG's in other countries
- Inventory of practice based innovations
- Additional outlet for dissemination
- Lend weight to new applications

- Clusters of proactive multiactor groups
- Worked examples of innovation and best practice
- End-user insight and engagement
- Inspiration to other farmers



English OG - Engaging farmers on antibiotic use



1) Clear benefit to farmer

2) Practical, on farm

3) Farmer-led









4) Measure and monitor success

5) Facilitation





Bottom-up knowledge exchange

Constructive critique & action planning

Practical evaluation/end user feedback





Sharing knowledge cross border - antimicrobial use

Farmer exchange

Visits to R and KE centres

Demonstrating innovation









Workshops

Webinars

Rethinking methods for the care and housing of dairy calves

> Marina (Nina) von Keyserlingk and Daniel M. Weary nina@mail.ubc.ca



Summary and conclusions

- EuroDairy demonstrates the combination of measures in support of the interactive innovation model
- The four sub-themes align well with identified sustainability challenges to the EU farm sector
- By adopting a broad definition of innovation (technical, social, organisational) the project can contribute to the modernisation of dairy farming
- Digital communication channels increase 'reach'
- Farmers also like to see and 'touch', learning from their peers, in a blended approach to learning





Summary and conclusions

- Development of management and leadership skills important, to increase 'absorptive capacity' for implementation of new technologies
- Local interpretation & language critical to spreading innovation and best practice across borders
- Key role of 3rd parties advisors, supply chain actors, for effective engagement with AKIS
 Persevere with the model !



