

Villa Contarini, 29th September 2023

R4D FRAMEWORK AND INVENTORY OF NEEDS

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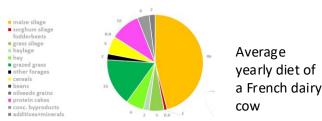
Dairy Production in France



Production 1984-2021

		1984	2015	2021
Milk yield	[mil. tonnes]	26,1	25.4	24.9
Dairy farms	[x 1000]	427	67	54
Dairy cows	[x 1,000,000]	6,764	3,637	3,322
Milk yield	[kg/cow p.a.]	3,859	6,990	7,500
Avg. herd size	[cows/farm]	16	59	68





Husbandry system

- Year-round calving
- Freestall barns (cubicles/deep bedding), plain or slatted floors, slurry or manure collection
- Main breeds: Holstein, Normande (plains)

Montbéliarde (piedmonts and

mountains), + crossbreds

First calving: 29 months old

• Lactations: 2.5 on average

Grazing system

Main systems: rotational grazing

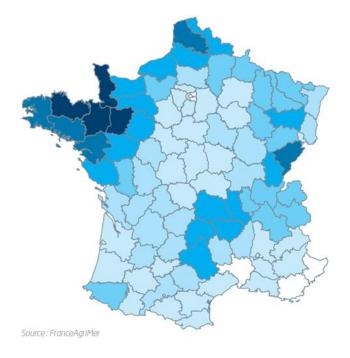
combination of continuous + rotational

• Pasture access: 90 % of dairy cows

• Grazing season: 6-10 months/year

Daily grazing time: 6-20 hours per day

Regional distribution



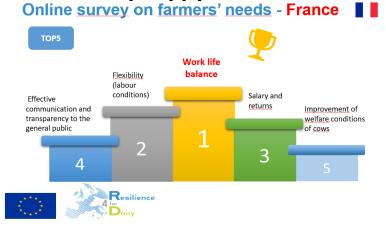




Challenges, targets, actions?

Challenges

- Facing climate change and hazards
- Reduce carbon footprint of milk and GHG emissions
- Increasing protein self-sufficiency
- Decreasing costs of inputs and energy
- Facing the decrease in organic milk consumption
- Generational renewal, attractiveness of dairy farming
- Dairy to beef
- Animal welfare/Happy cow



2030 - Targets

- Reduce agricultural GHG emissions from 81 to 65 mil. tonnes CO2e (-20 % between 2030 and 2021) and 46% between 2050 and 2015
- Reduce N surplus to 90 kg/ha
- Increase organic farming area to 15 % of land use
- Increase area of oilseeds, protein crops and legumes to 8% of AA (2 millions ha)
- Achieve good ecological status in 100 % of water bodies
- Increase biodiversity by hedges and grassland
- Increase animal welfare (housing, outdoor access, transport,...)

What are the actions that are required?



Pathways to Dairy Net Zero



Cap Protéines: a roadmap to increase protein self sufficiency at farm and territorial level, to cut imports of 1.5 millions tons of soya cakes



2021-2024 THEMATIC NETWORK

«FARMERS LEARNING FROM FARMERS»

120 PILOT FARMERS

15 COUNTRIES
18 Partners

Project leader



Resilience – KEY AREAS:

1.Economic and social resilience

STRATEGIC BUSINESS PLANNING, QUALITY OF LIFE AND GENERATIONAL RENEWAL

2.Technical Efficiency

BEST PRACTICES AND TECHNICAL INNOVATIONS

3.Environment, welfare and society

ADDRESSING THE RESPONSIVENESS OF THE DAIRY SECTOR TO SOCIETAL NEEDS

FINAL OBJECTIVE

Establish a range of **best practices** that are tailored to answer farmer's specific needs and society's expectations.

100 Factsheets POTENTIAL SOLUTIONS





1ST STEP

INVENTORY of NEEDS to improve farm resilience

2022 - Online survey



15 Countries

RESULTS

	COUNTRY	NUMBER OF RESPONSES
1	FLEMISH REGION (BE)	91
2	WALLON REGION (BE)	87
3	DENMARK	12
4	FRANCE	38
5	FINLAND	34
6	IRELAND	9
7	GERMANY	23
8	ITALY	55
9	LITHUANIA	14
10	LUXEMBOURG	16
11	HUNGARY	23
12	THE NETHERLANDS	25
13	NORTHERN IRELAND	14
14	POLAND	14
15	SLOVENIA	46
16	SPAIN	34
	TOTAL	535

SAMPLE SIZE

No. 535

European overall results

RANK	NEEDS - European overall ranking - Top 20	%
1	Work-life balance – QUALITY OF LIFE	83%
2	Improvement of welfare conditions of cows – ANIMAL WELFARE	81%
3	Salary/returns – QUALITY OF LIFE	80%
	Innovative testing/analysis for early detection of diseases (e.g. mastitis, infertility, metabolic diseases,	
4	lameness) – PREVENTION - EARLY DETECTION	79%
	Effective communication and transparency to the general public of agricultural practices and the role of	
5	agriculture in society – COMMUNICATION	77%
6	Improvement of welfare conditions of calves – ANIMAL WELFARE	76%
7	Flexibility – QUALITY OF LIFE	76%
8	Energy efficiency and use of renewable energy sources – ENVIRONMENT	74%
	Innovative detectors/devices for metabolic disease, pathologies (e.g. mastitis, lameness), estrum,	
9	eating/grazing behaviour, calving time detectors – PREVENTION - EARLY DETECTION	73%
10	Innovative and animal-friendly housing – ANIMAL WELFARE	73%
11	Efficiency of nitrogen use (e.g. feeding and grassland use) – ENVIRONMENT	72%
12	Soil management (e.g. land rotation) – ENVIRONMENT	71%
13	Reliable information sources, knowledge and training (e.g. webinars, courses, lectures) – MANAGEMENT	69%
14	Economic calculators for on farm decision making – MANAGEMENT	68%
15	Prevention (e.g. vaccination, good practice) – PREVENTION	68%
16	Innovative feeding systems for cows (feed composition, preparation and distribution) – INNOV. IN FEED	67%
17	Strategic management and innovative resilience skills – MANAGEMENT	64%
18	Innovative silage production/management techniques and technologies – INNOV. IN FEED	64%
19	Reducing antibiotic use (e.g. blanket dry cow therapy) - AM REDUCTION	63%
20	Innovative feed production, storage techniques and technologies – INNOV. IN FEED	62%

Further investigations by cluster

Farmers	379
Different professions	156

Farmers	379
More than 100 cows	170

Up to 39 years	164
Over 40 years	371

Male	405
Female	125
Prefer not to say	5

ISCED 1-5 (Within tertiary	239
education level)	
ISCED 6-8 (Bachelor's	296
level or upper level)	

Highlights

- The ranking shows the variety of needs that farmers have to face
- Results are homogeneous comparing different clusters
- The main themes are:
- farmers welfare (work-life balance, salary, work flexibility)
- animal welfare (cow and calves) and animal health (+++prevention → AM reduction)
- communication with civil society
- environmental sustainability (renewable energy)
- management (farmers education, data driven decisions tools)
- Improvement of "Work-life balance" and "Transparent and effective
 communication with civil society" are in the top 5 issues, just on the same level
 of other more technical or economic challenges
- "Work-life balance" is always in the first 3 top positions regardless clusters (often 1st position): it is comprehensive parameter (it is the final effect of other needs)



Thank you

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PROGRAMME

11.00 WELCOME/INTRODUCTION BY APROLAV (President TERENZIO BORGA)

11.10 Introduction on farmers needs as defined by R4D project (Valerie Brocard (Project coordinator- IDELE- FRANCE), Serena Soffiantini and Alberto Menghi (Italian partner R4D project- CRPA - ITALY)

- 11.20 Mastitis detection (Kelly Schmit LTA LUXEMBOURG)
- 11.30 Strategic Hoof trimming (George Ramsbottom TEAGASC IRELAND)
- 11.40 Colostrum management (Sandra Debevere INAGRO BELGIUM)
- 11.50 Young stock weight (Evi Canniere INAGRO BELGIUM)

5/10 minutes, conclusions and Q&A