

INVENTORY AND ANALYSIS OF NEEDS TOWARDS RESILIENT DAIRY FARMING IN 15 EUROPEAN COUNTRIES



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Serena Soffiantini, CRPA, Italy

Alberto Menghi, CRPA, Italy

EUROPEAN INVENTORY of NEEDS for RESILIENT DAIRY FARMING

Contents:

- Framework
- Structure of the survey
- Results of the survey:
 - overall results
 - results by key themes
 - some specific results











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.

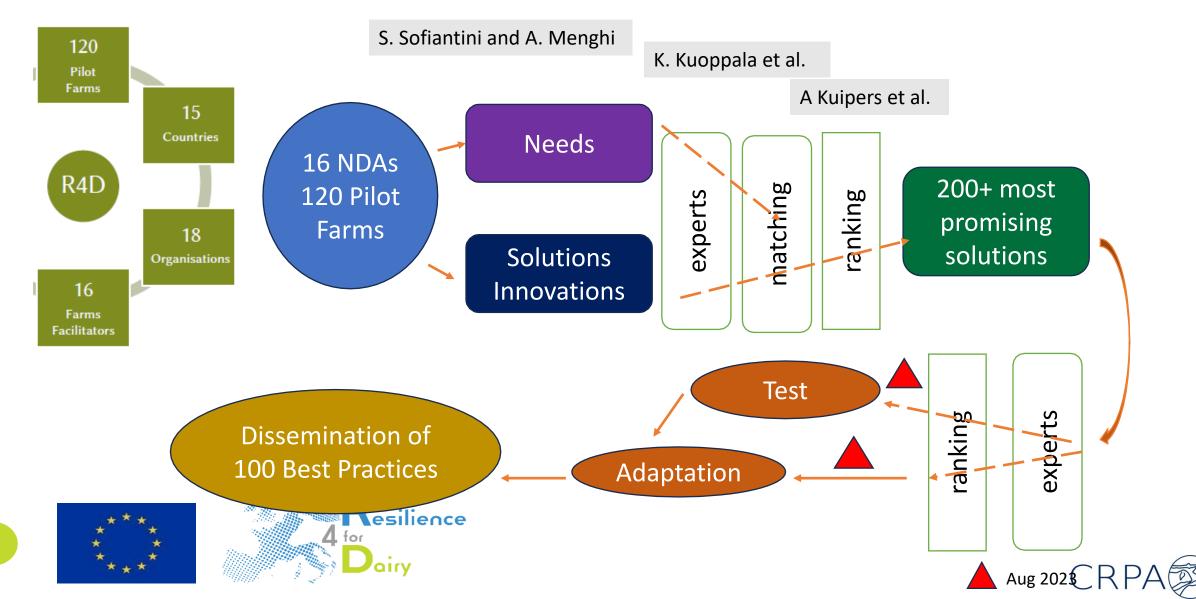
100 Factsheets POTENTIAL SOLUTIONS



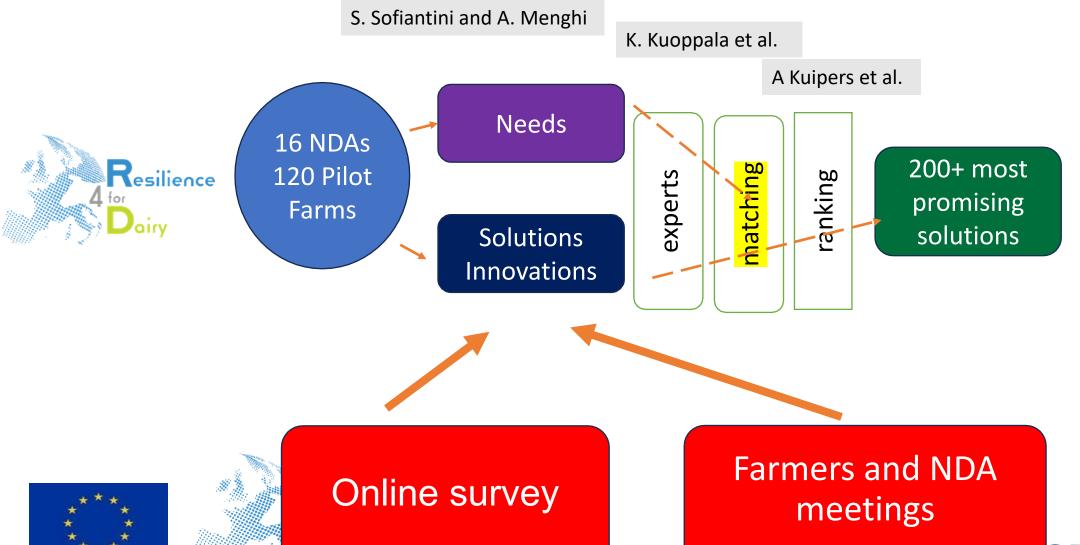




Expected outputs of R4D project: Ready-to-use Best Practices



Collecting farmers most urgent needs and solutions. Creation of national Workplans





INVENTORY of NEEDS to improve farm resilience

2022 - Online survey



15 Countries

Online survey

43 SPECIFIC NEEDS

«Please rate you interest from 0 (no interest) to 5 (very interested) for the following needs/solutions for improving farm resilience»

0	1	2	3	4	5	I DON'T
						KNOW

Online survey

43 SPECIFIC NEEDS to rate from 0 to 5

GENERAL INFORMATION ABOUT RESPONDERS

- Country
- Profession (select one):
- Age
- Gender
- Level of education
- Marital Status
- Presence of children
- Are you farm owner/worker?

If farmer:

- How many cows do you milk?
- Are you seasonal or all year round calving?
- Do you rear your own heifers?
- How many workers are you on your farm?
- How many milk do you produce per year?
- What is your total Agricultural Area?

RESULTS

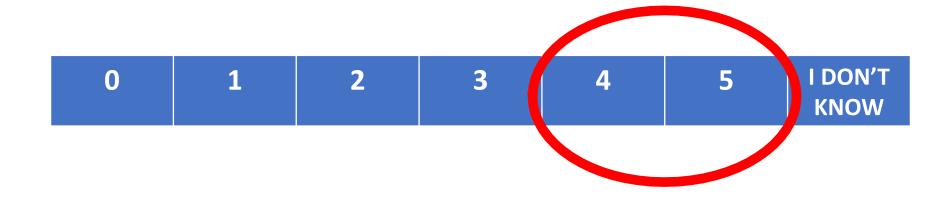
SAMPLE SIZE No. 535

	COUNTRY	NUMBED OF
	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

METHOD OF RANKING

Different "level of criticality" of responders: both score 4 and 5 has been considered to define the ranking

On the top positions there are the needs that received the highest number of score 4 and 5.



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%
4	Innovative testing/analysis for early detection of diseases (e.g. mastitis, infertility, metabolic diseases, lameness) – PREVENTION - EARLY DETECTION	79%
5	Effective communication and transparency to the general public of agricultural practices and the role of 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%

Some specific investigations by cluster

CLUSTERS

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)	

Farmers point of view

	OVERALL RESULTS (no. 535)	FARMERS (no. 379)
1	Work-life balance	Improvement of welfare conditions of cows
2	Improvement of welfare conditions of cows	Work-life balance
3	Salary/returns	Salary/returns
4	Innovative testing/analysis for early detection of diseases (e.g. mastitis, infertility, metabolic diseases, lameness)	Innovative testing/analysis for early detection of diseases (e.g. mastitis, infertility, metabolic diseases, lameness)
5	Effective communication and transparency to the general public of agricultural practices and the role of agriculture in society	Effective communication and transparency to the general public of agricultural practices and the role of agriculture in society
6	Improvement of welfare conditions of calves	Flexibility
7	Flexibility	Improvement of welfare conditions of calves
8	Energy efficiency and use of renewable energy sources	Energy efficiency and use of renewable energy sources
9	Innovative detectors/devices for metabolic disease, pathologies (e.g. mastitis, lameness), estrum, eating/grazing behaviour, calving time detectors	Innovative detectors/devices for metabolic disease, pathologies (e.g. mastitis, lameness), estrum, eating/grazing behaviour, calving time detectors
10	Innovative and animal-friendly housing	Prevention (e.g. vaccination, good practice)

Under 40 point of view

	OVERALL RESULTS (no. 535)	UP TO 39 YEARS OLD (no. 3164)
1	Work-life balance	Work-life balance
2	Improvement of welfare conditions of cows	Salary/returns
3	Salary/returns	Improvement of welfare conditions of cows
4	Innovative testing/analysis for early detection of diseases (e.g. mastitis, infertility, metabolic diseases, lameness)	Improvement of welfare conditions of calves
5	Effective communication and transparency to the general public of agricultural practices and the role of agriculture in society	Innovative testing/analysis for early detection of diseases (e.g. mastitis, infertility, metabolic diseases, lameness)
6	Improvement of welfare conditions of calves	Flexibility
7	Flexibility	Innovative and animal-friendly housing
8	Energy efficiency and use of renewable energy sources	Innovative detectors/devices for metabolic disease, pathologies (e.g. mastitis, lameness), estrum, eating/grazing behaviour, calving time detectors
9	Innovative detectors/devices for metabolic disease, pathologies (e.g. mastitis, lameness), estrum, eating/grazing behaviour, calving time detectors	Energy efficiency and use of renewable energy sources
10	Innovative and animal-friendly housing	Effective communication and transparency to the general public of agricultural practices and the role of agriculture in society

Female point of view

OVERALL RESULTS (no. 535)	FEMALE (no. 125)
Work-life balance	Work-life balance
Improvement of welfare conditions of cows	Improvement of welfare conditions of cows
Salary/returns	Innovative and animal-friendly housing
Innovative testing/analysis for early detection of diseases (e.g. mastitis, infertility, metabolic diseases, lameness)	Improvement of welfare conditions of calves
Effective communication and transparency to the general public of agricultural practices and the role of agriculture in society	Salary/returns
Improvement of welfare conditions of calves	Innovative testing/analysis for early detection of diseases (e.g. mastitis, infertility, metabolic diseases, lameness)
Flexibility	Effective communication and transparency to the general public of agricultural practices and the role of agriculture in society
Energy efficiency and use of renewable energy sources	Flexibility
Innovative detectors/devices for metabolic disease, pathologies (e.g. mastitis, lameness), estrum, eating/grazing behaviour, calving time detectors	Reliable information sources, knowledge and training (e.g. webinars, courses, lectures)
Innovative and animal-friendly housing	Innovative detectors/devices for metabolic disease, pathologies (e.g. mastitis, lameness), estrum, eating/grazing behaviour, calving time detectors
	Work-life balance Improvement of welfare conditions of cows Salary/returns Innovative testing/analysis for early detection of diseases (e.g. mastitis, infertility, metabolic diseases, lameness) Effective communication and transparency to the general public of agricultural practices and the role of agriculture in society Improvement of welfare conditions of calves Flexibility Energy efficiency and use of renewable energy sources Innovative detectors/devices for metabolic disease, pathologies (e.g. mastitis, lameness), estrum, eating/grazing behaviour, calving time detectors

High level of education point of view

	OVERALL RESULTS (no. 535)	ISCED 6-8 - Bachelor's level or upper level (no. 296)
1	Work-life balance	Work-life balance
2	Improvement of welfare conditions of cows	Salary/returns
3	Salary/returns	Improvement of welfare conditions of cows
4	Innovative testing/analysis for early detection of diseases (e.g. mastitis, infertility, metabolic diseases, lameness)	Innovative testing/analysis for early detection of diseases (e.g. mastitis, infertility, metabolic diseases, lameness)
5	Effective communication and transparency to the general public of agricultural practices and the role of agriculture in society	Flexibility
6	Improvement of welfare conditions of calves	Effective communication and transparency to the general public of agricultural practices and the role of agriculture in society
7	Flexibility	Improvement of welfare conditions of calves
8	Energy efficiency and use of renewable energy sources	Innovative detectors/devices for metabolic disease, pathologies (e.g. mastitis, lameness), estrum, eating/grazing behaviour, calving time detectors
9	Innovative detectors/devices for metabolic disease, pathologies (e.g. mastitis, lameness), estrum, eating/grazing behaviour, calving time detectors	Energy efficiency and use of renewable energy sources
10	Innovative and animal-friendly housing	Innovative and animal-friendly housing

Herd dimension

	OVERALL RESULTS (no. 535)	MORE THAN 100 COWS (no. 170)
1	Work-life balance	Improvement of welfare conditions of cows
2	Improvement of welfare conditions of cows	Salary/returns
3	Salary/returns	Work-life balance
4	Innovative testing/analysis for early detection of diseases (e.g. mastitis, infertility, metabolic diseases, lameness)	Improvement of welfare conditions of calves
5	Effective communication and transparency to the general public of agricultural practices and the role of agriculture in society	Effective communication and transparency to the general public of agricultural practices and the role of agriculture in society
6	Improvement of welfare conditions of calves	Energy efficiency and use of renewable energy sources
7	Flexibility	Flexibility
8	Energy efficiency and use of renewable energy sources	Innovative testing/analysis for early detection of diseases (e.g. mastitis, infertility, metabolic diseases, lameness)
9	Innovative detectors/devices for metabolic disease, pathologies (e.g. mastitis, lameness), estrum, eating/grazing behaviour, calving time detectors	Innovative detectors/devices for metabolic disease, pathologies (e.g. mastitis, lameness), estrum, eating/grazing behaviour, calving time detectors
10	Innovative and animal-friendly housing	Efficiency of nitrogen use (e.g. feeding and grassland use)

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Conclusions

- 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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