



Re-Livestock
RESILIENT FARMING SYSTEMS

Deliverable 1.1

List of Stakeholder Forum Members associated with selected case studies

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Author(s):	James Kinsella
Contributor(s):	Laurence Smith, Inés Rivelli
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Executive Summary

This report presents the lists of stakeholders for each of the thirteen Re-Livestock case studies. The case study facilitators each undertook a survey with farmers to identify who influences their decision making as it relates to the theme explored in the case study. This exercise ensures that the Re-Livestock Project case studies are farmer centered. The lists identified a total of 155 actors across the 13 case studies and included a range of actors from farmers themselves (27% of all actors identified) to farm advisors and industry representatives.

The stakeholders identified are invited to attend the stakeholder forums (meetings) that will be undertaken over the life of the project. It presents Deliverable 1.1 of the Re-Livestock Project which requires: *a List of Stakeholder Forum Members associated with selected case studies.*

1. Introduction

Background

The overall aim of Re-Livestock is to understand and mobilize adoption of innovative practices to reduce the greenhouse gas (GHG) emissions of livestock farming and to increase the capacity for dealing with climate change impacts, in order to ultimately increase the overall resilience of the livestock sector. More specifically, it sets out a specific objective of understanding the factors influencing the adoption and efficacy of mitigation and adaptation practices. This aim and objective clearly places the farmers at the center of the Re-Livestock project as they are the ultimate decision-makers when it comes to adoption of innovations that impact climate change through livestock farming.

2. Establishing the Stakeholder Groups

To meet this deliverable (D1.1), it was decided to position the case study farmers at the center of the process and allow them to identify the actors who provide them with information and who influence their decisions in relation to the theme of the respective case study. The concept of the Agricultural Knowledge and Innovation System (AKIS) is applied in this task which recognises the centrality of the farmer in the process while being supported by a range of actors who contribute to their knowledge and decision-making (Figure 1).



Figure 1: The Agricultural Knowledge and Innovation System (AKIS)

Source: EU SCAR AKIS (2019), *Preparing for Future AKIS in Europe*. Brussels, European Commission

A simple AKIS survey with farmers was undertaken for each case study in which a sample of the farmers, associated with the case study, were asked to identify and assess the actors in their AKIS. The method of data collection used varied across the different case studies, ranging from phone interviews to face-to-face interviews to

electronic surveys. The method selected in each case was deemed most appropriate by the Case Study Facilitator at the time of data collection.

While the method of data collection varied the questions posed were the same across all 13 case studies, namely:

- Who provides you with information and advice on the theme of this case study?
- How influential are each of the identified actors on your decisions about this theme (scale of 1-5)?

The result of each survey was the identification of the moderate to high influence actors by the farmers in relation to the theme of the case study. Low influence actors were not included as it was felt that enabling change with farmers was best served by engagement with the stakeholders that have greatest influence on their decisions.

3. Content of Report

This report presents the lists of stakeholders identified by farmers through the AKIS surveys for all thirteen case studies. The listed stakeholders are invited to attend the Case Study Stakeholder Forums, the first of which are scheduled to take place before M.24 of the project (Sept. 2024).

Lists of Stakeholder Forum Members associated with selected Case Studies

Case	Case Study Title	Country/ enterprise
1	100% grass-fed cows	Switzerland/ Dairy
2	Re-breeding Livestock for Resilience	Netherlands/Dairy
3	Animal Welfare and Mitigation	Italy/ Beef
4	By-products as a feeding strategy on dairy farms	Spain/ Dairy
5	Compost Bedded Pack (CPD)	Spain/Dairy and Beef
6	100% pasture-fed livestock	UK/ Beef and Sheep
7	Beef Cattle in Low Input Systems	Spain/ Beef
8	Dual purpose Dairy Cattle	Switzerland/Dairy
9	Cross breeding in Dairy Cattle Herds	Sweden/ Dairy
10	Slurry management in pig farms to reduce GHG	Spain/ Pigs
11	Implementation of trees in pastoral systems	Denmark/ Pigs and Cattle
12	Substituting Soy with local legumes	Poland/ Pigs
13	PLF and heat stress management	Spain/ Pigs

4. Case Study 1: 100% Grass-fed cows

Livestock Sector: Dairy cattle

Country: Switzerland

Case description: This case examines: if concentrate-free dairy production is economically feasible and who makes the best use of their grassland-based resources. It looks at dairy farmers visions and strategies to face future challenges and the minimization of feed-food competition (feed-no-food) by applying grassland-based feeding in dairy production.

Facilitator name and institution: Anna Bieber, Research Institute of Organic Agriculture (FiBL)

Stakeholder / organisation name	Position/title
Advisor	FiBL
Breeding association	Swissherdbook
Breeding association	Braunvieh Schweiz
Cheese dairy	Sennerei Andeer
Farmer	-
Farmer	-
Farmer	-
Farmers' Association	IG Neue Schweizer Kuh
Farmers' Association	IG Weidemilch, approx. 30 farmers
Retailer	Coop Migros
Organic Farmers' Association	BioSuisse
Organic Farmers' Association	Demeter
Organic Farmers' Association	BioFair Schweiz
Retailer	ALDi Suisse: Retour aux Sources
Veterinary Advisory Service	Rindergesundheitsdienst Schweiz

5. Case Study 2: Re-breeding livestock for resilience

Livestock Sector: Dairy cattle

Country: Netherlands

Case description: A large population (100 farms with 150 cows each) distributed across the Netherlands is phenotyped for individual methane emission. Network of farmers on 100 farms interested in mitigation options on farm.

Facilitator(s) name and institution: Hanne Honerlagen, Wageningen University and Research Center (WUR)

Stakeholder / organisation name	Position/title
Dairy farmers x 3	<i>Case study farmers</i>
CRV (breeding company)	<i>Researcher</i>
CRV (breeding company)	<i>Researcher CA Animal Evaluation Unit</i>
ZuivelNL (This is a collaboration between the Dutch Federation of Agriculture and Horticulture (LTO), Dutch Dairy Farmers Organisation (NMV), NAJK (young farmers organisation) and NZO (dairy industry))	<i>ZuivelNL Representative</i>
Wageningen University and Research	<i>Researcher</i>
Friesland Campina (Dairy company/processor)	<i>Senior Scientist</i>
Agrifirm (farmer co-operative)	<i>Representative</i>
LTO (Agriculture and Horticulture Organization Netherlands)	<i>Representative</i>
RVO (Netherlands Govt. Enterprise Agency)	<i>Representative</i>
Rabobank (financial institution)	<i>Representative</i>
Fleuren Accountants	<i>Representative</i>
Wolswinkel, BoerDrachten (Farm Supplies Store)	<i>Store representative/ manager</i>

6. Case Study 3: Animal welfare and mitigation

Livestock Sector: Dairy

Country: Italy

Case description: Granducato is a cooperative of dairy cattle farms located in northern Tuscany. The farms apply a disciplinary for the mitigation of GHG emission, the respect of animal welfare and the improvement of nutritional quality of milk. The environmental impact of the supply chain is certified according to the EPD (Environmental product declaration) system.

Facilitator(s) name and institution: Alberto Mantino and Alina Silvi, University of Pisa

Stakeholder / organisation name	Position/title
Farmer	<i>Azienda Agricola</i>
Farmer	<i>Azienda Agricola</i>
Farmer	<i>Azienda Agricola</i>
Farmer	<i>AgriAmbiente</i>
Farmers' cooperative for milk harvesting and marketing	<i>Cooperativa Produttori Latte Terre del Granducato</i>
Public Sanitary Advisory Service	<i>Azienda USL Toscana centro</i>
Farmers' organisation and counselling	<i>Coldiretti</i>
Sales and Service of agricultural machinery, tools and equipment	<i>Santelli e Bargiotti snc</i>
Researcher	<i>University of Pisa</i>
Private Veterinary Advisory Service	<i>Dott.ssa</i>
Private Agricultural Advisory Service	<i>Dott.ssa</i>



7. Case Study 4: By-products as a feeding strategy on dairy farms

Livestock Sector: Dairy cattle

Country: Spain

Case description: Dairy farms that are routinely using byproducts from the agro-industry as replacement of conventional ingredients to feed animals at different stages of production.

Facilitator(s) name and Institution: Ines Rivelli. CSIC

Stakeholder / organisation name	Position/title
Dairy farmer	-
Dairy farmer	-
Dairy farmer	-
Dairy farmer	-
“Valle de los Pedroches” dairy cooperative/ COVAP	<i>Head of Animal Feed Innovation and innovation</i>
“Valle de los Pedroches” dairy cooperative/ COVAP	<i>Field Veterinarian</i>
By-products supplier	<i>Representative</i>
CSIC	<i>Animal Science Researcher</i>

8. Case Study 5: Compost Bedded Pack (CBP)

Livestock sector: Dairy and Beef cattle

Country: Spain

Case description: Several dairy and beef farms are using CBP techniques in Spain in order to improve animal welfare and health. Compost bedded pack (CBP) is a manure management system in which animals are housed on free-stall systems with straw (or other bedding material) that is mixed with manure and composted. It provides some advantages in terms of animal welfare and health but seems to enhance GHG emissions (mainly N₂O). It also provides (according to farmers) a 'cooling effect' if compared to deep bedding, which might provide some interest in terms of adaptation.

Facilitator(s) name and institution: Elena Sanchis. Universitat Politècnica de València (UPV)

Stakeholder / organisation name	Position/title
Farmer (SAT Serretilla)	Manager/Technician
Farmer (SAT More)	Manager/Technician
Farmer's organisation – La Unió	Technician/Area Manager
Interprofessional organisation – Provacuno	Area Manager
Milk Industry - Pascual	Technician/Area Manager
Government Department or Agency – Generalitat Valenciana	Technician/Area Manager
Private Agricultural Advisory Service – Lainez Biotrends	Owner/Manager
Financial Institution – Grupo Cajamar	Area Manager
Agri-supplier – Fertinagro	Technician/Area Manager
Public Agricultural Advisory Service (Animal Welfare) – Animal Technology Center CITA-IVIA	-
University or Technology Center – Universitat Politècnica de València	Animal Science Technician
University or Technology Center – Universitat Politècnica de València	Animal Science Researcher

9. Case Study 6: 100% pasture-fed livestock

Country: UK

Livestock sector: Beef and Sheep

Case description: Pasture for Life Association (PFLA) is a cattle farming organisation located across the UK. The organisation offers certification and runs research forums for its hundreds of member farms, with an aim to advise members in 100% pasture-fed, regenerative cattle farming approaches.

Facilitator(s) name and institution: Nicholas Davison. University of Reading

Stakeholder / organisation name	Position/title
Farmer	<i>100% pasture fed > 5 year certified</i>
Farmer	<i>100% pasture fed > 5 year certified</i>
Farmer	<i>100% pasture fed < 5 year certified</i>
Farmer	<i>100% pasture fed < 5 year certified</i>
Farmer	<i>100% pasture fed other</i>
Farmer	<i>Regenerative other</i>
Farm organisation - PFLA	<i>Executive director</i>
Farm organisation - PFLA	<i>Forum/research organiser</i>
Farm organisation/advisory service - Groundswell	<i>Research/event organiser</i>
Agricultural Advisory Service – Soil Association	<i>Advisor</i>
Agricultural Advisory Service – Progressive Farming Co	<i>Representative</i>

10. Case Study 7: Beef Cattle in Low Input Systems

Livestock Sector: Beef cattle

Country: Spain

Case description: The objective of the case study is to incorporate heat tolerance in the breeding objective of Avileña Negra Ibérica breed exploring by simulation selection strategies to maintain a balance between production and heat tolerance.

Facilitator(s) name and Institution: Clara Diaz. INIA-CSIC

Stakeholder / organisation name	Position/title
Avileña Negra Ibérica Breed Association (Farmer organization)	<i>Executive Manager</i>
Avileña Negra Ibérica Breed Association	<i>Technical Manager</i>
Avileña Negra Ibérica Breed Association	<i>Field Controller</i>
Farmer	<i>Manager</i>
INIA-CISC	<i>Geneticist</i>
Regional Testing Center (Breeders Association)	<i>Director</i>
Official Farm from the Regional Government	<i>Technical Manager</i>

11. Case Study 8: Dual-purpose cattle

Livestock Sector: Dairy cattle

Country: Switzerland

Case description: coupled production of meat and dairy out of one breed instead of specialized production where dairy (male) calves become an ethical challenge.

Facilitator(s) name and institution: Anna Bieber, Research Institute of Organic Agriculture (FiBL)

Stakeholder / organisation name	Position/title
Advisor	<i>FiBL</i>
Breeding association	<i>Swissherdbook</i>
Breeding association	<i>Braunvieh Schweiz</i>
Company of the Swiss retailer Migros	<i>Micarna</i>
Farmer (fattening)	<i>D. Böhler</i>
Farmer (dairy)	-
Farmer (rearing)	-
Organic Farmers' Association	<i>BioFair Schweiz</i>
Organic Farmers' Association (label)	<i>Bio Suisse</i>
Organic Farmers' Association (label)	<i>Demeter</i>
Organic Farmers' Association	<i>IG Bio Weide Beef</i>
Processor of meat and convenience food	<i>Bell Food Group Ltd</i>
Retailer	<i>Coop (F. Schneider)</i>
Retailer	<i>ALDi Suisse, retour aux sources</i>
Retailer	<i>LiDL (Representative)</i>
Sectoral organisation	<i>Proviande</i>
Trader	<i>Linus Silvestri AG/ Vianco</i>
Trader and processor	<i>Fidelio-Biofreiland AG & Fidelio Produkte AG</i>

12. Case Study 9: Cross breeding in Dairy Cattle Herds

Livestock Sector: Dairy cattle

Country: Sweden

Case description: A group of dairy farmers practicing cross-breeding Holstein with other dairy breeds to improve reproduction and health in dairy cows, and using sex sorted and beef-semen to increase production of meat and hence reduce impact per unit of produce.

Facilitator(s) name and institution: Lotta Rydhmer. Swedish University of Agricultural Sciences (SLU)

Stakeholder / organisation name	Position/title
Farmers x 3	<i>Farmers that are also involved in this case study (the ProCROSS farmers already have a network)</i>
Breeding advisory service / Växa Sverige	<i>Farmers' 'general' breeding advisor</i>
Breeding advisory service / Växa Sverige	<i>Farmers' ProCROSS advisor</i>
ProCROSS (owned by two breeding organisations)	<i>ProCROSS expert responsible for Nordic countries</i>
Feeding advisory service / Växa Sverige	<i>Farmers' feeding advisor</i>
Preventive animal health care / Växa Sverige	<i>Herd veterinarian</i>
Economy advisory service / private 1-person company	<i>Company owner and advisor</i>
Economy advisory service / Växa Sverige	<i>Farmers' economy advisor</i>

13. Case Study 10: Slurry management in pig farms to reduce GHG

Livestock sector: Pigs

Country: Spain

Case description: Pig farmers in Spain are requested to reduce emissions along the slurry management chain and some of them are already promoting slurry management changes. Most of them are reporting management techniques throughout Ecogan, a tool that calculate emissions based on management practices.

Facilitator(s) name and institution: Elena Sanchez. Universitat Politècnica de València (UPV)

Stakeholder / organisation name	Position/title
Farmer	<i>Farm manager</i>
Farmer	<i>Farm manager</i>
Farmers' organisation – La Unió	<i>Technician</i>
Farmers' organisation – La Unió	<i>Technician</i>
Government Department or Agency – Generalitat Valenciana	<i>Technician/Area Manager</i>
Private Agricultural Advisory Service – Lainez Biotrends	<i>Owner/Manager</i>
Financial Institution – Grupo Cajamar	<i>Area Manager</i>
Agri-supplier – Fertinagro	<i>Technician/Area Manager</i>
University or Technology Center – Universitat Politècnica de València	<i>Animal Science Technician</i>
University or Technology Center – Universitat Politècnica de València	<i>Animal Science Researcher</i>

14. Case study 11: Implementation of trees in pastoral systems

Livestock Sector: Pigs and Dairy cattle

Country: Denmark

Case description: A group of organic livestock farmers interested in integration of trees with livestock. Animal welfare, biodiversity and carbon sequestration are key drivers of adoption. The network was established by Organic Denmark.

Facilitator(s) name and institution: Julie Rohde Birk. Innovation Centre for Organic Farming (ICOF)

Stakeholder / organisation name	Position/title
Farmer	<i>Case study farmer</i>
Farmer	<i>Case study farmer</i>
Farmer	<i>Case study farmer</i>
Innovation Centre for Organic Farming	<i>Consultant and Project Manager in Agroforestry</i>
Organic Denmark - newspaper	<i>Editor-in-chief</i>
Agricultural Consultancy	<i>private Agricultural Consultant</i>
Økologirådgivning Danmark, Agricultural Consultancy	<i>Agricultural Consultant</i>
HortiAdvice, Agricultural Consultancy	<i>Consultant on fruit trees and bushes</i>
Skovdyrkerne, Forest Consultancy	<i>Consultant</i>
Aarhus Universitet	<i>Senior Researcher</i>

15. Case Study 12: Substituting Soy with local legumes

Livestock Sector: Pigs

Country: Poland

Case description: Non-associated pig breeders using local sources of protein in the nutrition of primitive and commercial breeds of pigs. Selected breeders are also producers of both feed raw materials and compound feed. Some of them also process and sell pork and finished products with special quality labels.

Facilitator(s) name and institution: Małgorzata Kasproicz-Potocka. Poznan University of Life Sciences

Stakeholder / organisation name	Position/title
Farmer 1	<i>Owner</i>
Farmer 2	<i>Owner</i>
Farmer 3	<i>Owner</i>
Farmer 4	<i>Owner</i>
Farmer 5	<i>Owner</i>
Legume producers	<i>Product manager</i>
Public Agricultural Advisory Service – Minikowo Kuyavian-Pomeranian Agricultural Advisory Centre in Minikowo (KPODR)	<i>Chairperson – Animal Nutrition advisor</i>
Public Agricultural Advisory Service - Poznań	<i>Chairperson – Plant production advisor</i>
Public Agricultural Advisory Service - Gniezno	<i>Chairperson – Production advisor</i>
Public Agricultural Advisory Service - Susz	<i>Chairperson - Ecology</i>
National Race Zlotnicka coordinator PULS	<i>Scientist</i>
National Race Pulawska coordinator – IZ Balice	<i>Professor</i>
National Pig Organisation (POLSUS)	<i>Inspector</i>
Veterinary Inspection	<i>Inspector</i>
Meat processor	<i>Owner</i>
Meat processor	<i>Product manager</i>
Meat processor	<i>Libero – product manager</i>
Feed producer	<i>Cargill/product manager</i>
Feed producer	<i>Lira/product manager</i>
Meat processor	<i>ANIMEX/product manager</i>

16. Case Study 13: PLF and heat stress management

Livestock Sector: Pigs

Country: Spain

Case description: A network of intensive white pig farms, with a high level of technification and different characteristics (genetics, nutrition, management, ...) interested in assessing the impact of extreme temperatures on their production and in existing improvement systems.

Facilitator(s) name and institution: María Rodríguez Francisco. Animal Data Analytics S.L.

Stakeholder / organisation name	Position/title
Veterinarian 1	<i>JISAP</i>
Veterinarian 2	<i>Deporcyl</i>
Livestock Owners' Association 1	<i>Feaspor (Federation of Sanitarily Accredited Farms)</i>
Livestock Owners' Association 1	<i>ASAJA (Agricultural Association of Young Farmers)</i>
Farmer 1	<i>Owner</i>
Farmer 2	<i>Owner</i>
Feed Manufacture	<i>Proinserga</i>
Nutritionist	<i>SETNA Nutrition - ADM</i>
Integration Company	<i>Proporseg</i>
National Pig Organisation (ANPROGAPOR)	<i>Director</i>

17. Results and Discussion

The exercise undertaken by the facilitators of the thirteen case studies has identified the actors in the AKIS that farmers themselves have identified as being important in terms of providing them with information and advice on innovation as it relates to the theme of the case study.

Across the thirteen Case Studies, the AKIS surveys of farmers identified 155 actors who provide information and advice and influence their decisions in relation to the theme of the case study.

The average number of actors identified per case study was 12, ranging from 7 to 20.

These actors range from farmers (peers) to veterinarians, to agricultural advisors (consultants), to researchers and to processors representing the complex nature of the knowledge systems within which farmers navigate decisions for change.

Not surprisingly farmers identified other farmers (peers) as being important influencers in all cases as 27% of all stakeholders (n=155) identified across the 13 cases were farmers.

18. Conclusions

The lists of AKIS actors identified by farmers through the surveys undertaken by each case study facilitator, provides the RE-Livestock Project with a unique and grounded list of stakeholders who are invited to participate in the Stakeholder Forums. As these actors are already identified by farmers as being important influencers in their decision-making it is expected that the outputs of the stakeholder forums will ultimately contribute to farmers adoption of innovations that align with the objectives of the Re-Livestock Project.