TRAINING NEEDS FOR PEOPLE INVOLVED IN EXTENSIVE LIVESTOCK FARMING

Information to be collected for IO1: Shepherd's curriculum

Date 01/08/2021 Version 2























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1. Training needs for people involved in extensive livestock farming

Based on knowledge of the training systems in the partner countries, the situation of extensive livestock farming in these countries and interviews with shepherds and livestock farmers, a SWOT analysis has been carried out. The topics discussed are the basis for identifying the main training needs in each country.

1.2. SWOT analysis of existing training:

To address the study of the VET and training of shepherds and extensive livestock, the following areas of action have been taken into account:

- How to join the sector
- Production techniques
- Farm management
- Production methods
- Production valorization
- Application of new technologies
- Current regulatory framework in each country

















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1.2.1. Austria

	STRENGTHS	OPPORTUNITIES
How to join the sector	S1: varied training offers and advisory support S2: Subsidies are connected with a basic agrarian education S3: Few restrictions on sheep farming, low costs for housing WEAKNESSES	O1: Increasing acceptance of sheep farming O2: Increasing interest in lamb-meat O3: Increasing interest in dairy products THREATS
	W1: Many sideline farms W2: Few restrictions on sheep farming: little knowledge of hobby- farmers	T1: Predators T2: Increasing intensification of the agriculture T3: rising land prices

	STRENGTHS	OPPORTUNITIES
Production techniques and farm management	S1: low costs for housing S2: Precise specifications for husbandry with regard to animal welfare S3: Different ranges from extensive to intensive production, high flexibility depending on possibility and interest of the farmer S4: big variety of different breeds according to the farm management	os: better all-terrain capability and weight for alpine areas =>























	O5: shepherds will be needed for herd protection (predators) in furture
WEAKNESSES	THREATS
W1: Predators W2: contribution margin is lower than for cattle W3: Niche production: less attention to technologisation W4: only few specialized veterinarians W5: little research and development in the field of medicines	T1: Changes in production due to climate change T2: social recognition of cattle and pigs is higher than sheep

	STRENGTHS	OPPORTUNITIES
Des destina	S1: perfect grassland converters S2: often using marginal land S3: no food competitor for human nutrition S4: Seasonality, times with less workload, planability	O1: different production methods can be easily changed O2: Shorter generation interval => more flexibility regarding herd management O3:
Production methods	WEAKNESSES	THREATS
	W1: higher production costs than on the global market (stable and fodder conservation for winter) W2: High costs per individual animal due to small structures W3: Slow increase in breeding value due to natural insemination	T1: Seasonality, no current production for marketing T2: extreme intensification => image loss in society T3: loss of efficiency due to strong extensification (environmental impact)

















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	STRENGTHS	OPPORTUNITIES
Production	S1: Good pricing for (regional) lambs S2: No food competitors S3: A wide range of quality/marketing brands S4: Professional breeding, export of breeding animals S5: Subsidies for endangerd farm animals	O1: HALAL meat production O2: Food trend towards sustainability and animal welfare: using positive associations for marketing O3: Increase in the self-sufficiency share for lamb-meat O4: Innovative marketing possibilities for wool: e.g. fertilizer
valorization	S6: Positive impact on tourism in alpine regions WEAKNESSES	O5: Sheep for social farming – green care THREATS
	W1: Marketing of old sheep W2: Less utilization of lamb-wool W3: Loss of subsidies for alpine grazing	T1: Cheap production abroad

Application of	STRENGTHS	OPPORTUNITIES
• •	S1: Research projects in Raumberg-Gumpenstein	O1: More time for diversification
new	S2: Reduction of workload	O2: Sharing technologies with other farms (costs)
technologies	S3: Reduction of physical work for farmers	, ,





















WEAKNESSES	THREATS
: Niche production: less attention to technologisation 2: Costs for technologies, stronger dependencies	T1: Less contact between farmer and individual animal

	STRENGTHS	OPPORTUNITIES
Regulatory framework in force in each	S1: Precise specifications for husbandry with regard to animal welfare (Animal Protection Law) S2: High standards in food safety S3: Additional subsidies for sustainable production S3: Well represented by chambers and breeding organisations, interest groups	O1: Good marketing possibilities due to high (controlled) quality O2: Agriculture and tourism combined in one ministry: support even in difficult situation e.g. cow attacks. Etc.
country	WEAKNESSES	THREATS
	W1: High administration effort W2: Conflict of interest between farming and hunting W3: Federalism: e.g. animal welfare is a matter of federal states	T1: Getting dependent on subsidies T2: Low competitiveness with the global market due to high production costs























1.2.2. Bulgaria

	STRENGTHS	OPPORTUNITIES
How to join the	S1: Extensive pastoral sheepbreeding is tradional practice for the Bulgarians. S2: Enables the involvement of young people in the sector.	O1: Allows inheritance of this technology in the family. O2: Sustainable storage of traditional production.
sector	WEAKNESSES	THREATS
	W1: Start-up capital is needed to start such a business. W2: Significant disinterest of young people in sheep breeding.	T1: Insufficient awareness of funding opportunities in this sector.

	STRENGTHS	OPPORTUNITIES
Draduation	S1: Creation of valuable food and non-food products from sheep S2: Work with natural materials and products.	O1: Opportunities to create protected products.
Production techniques	WEAKNESSES	THREATS
	W1: Weak level of mechanization of basic processes.	T1: To increase the level of mechanization.























	STRENGTHS	OPPORTUNITIES
F	S1: Low investment farmyng systems in extensively sheepbreeding.	O1: Possibility to obtain sheep products with low cost.
Farm management	WEAKNESSES	THREATS
	W1: Poorly developed modern information systems in the herd management.	T1: Implementation of modern computer programs to improve the management of the herd.

	STRENGTHS	OPPORTUNITIES
Draduction	S1: Mostly handmade original sheep products.	O1: Opportunities to create protected local products from sheep
Production methods	WEAKNESSES	THREATS























	STRENGTHS	OPPORTUNITIES
Application of	S1: Implementation of mechanization in basic technological processes in obtaining sheep production.	O1: Increasing the economic efficiency of the herd.
new technologies	WEAKNESSES	THREATS
	W1: Insufficient training of farmers in the area of new technology.	T1: Conducting adequate training.





















1.2.3. Germany

	STRENGTHS	OPPORTUNITIES
	S1. Possibilities of information about the counselling centers.	O1. Ecology and economy could be linked here
	S2. Technical knowledge would be available.	O2. Border locations could be used well here
Farm	S3. Cooperations could help with entry.	
management	WEAKNESSES	THREATS
	W1. There is a lack of training opportunities for the management of	T1. Animal welfare and daily life must be reconciled
	marginal sites.	
	W2. simple technical possibilities should be developed	T2. Regional availability and acting persons are not congruent

	STRENGTHS	OPPORTUNITIES
Production methods	S1. Production methods need to be rethought S2. Time plays an important factor	O1. Areas and possibilities are available O2. Ecological variants are popular
Inctitods	WEAKNESSES	THREATS
	W1. Starter packages for initial training are missing W2. The strengths of the region should be pooled	T1. Administrative requirements T2. Ecological thought still established enough





















	STRENGTHS	OPPORTUNITIES
	S1. Good foundations are available in individual cases	O1. Consumers would be ready for the products
Production	S2. The time for ecological production methods is given	O2. The know-how would be available
valorization	WEAKNESSES	THREATS
Valorization	W1. Differentiation of the product chains is difficult	T1. Cooperations for beginners is lacking
	W2. The handling of the initial products is very time-consuming	T2. Collective action would be necessary
		T3. Starting in small steps is too difficult

	STRENGTHS	OPPORTUNITIES
	S1. New approaches are available	O1. From large to small would be well possible
Application of	S2. Technical foundations come from the mountain regions	O2. Promotion of cooperations
new	WEAKNESSES	THREATS
technologies	W1. The first step would be necessary to support	T1. Is this really what is wanted?
	W2. Mechanization is more about size	T2. Hurdles in financing too great

	STRENGTHS	OPPORTUNITIES
Regulatory	S1. Funding opportunities currently possible	O1. The new funding period is not defined clearly enough
framework in	S2. Green locations are in focus	O2. Certainty of action over several years should be ensured
force in each	WEAKNESSES	THREATS
country	W1. Coordination across the entire federal states would make	T1. The interests are too different
Country	sense	T2. Regional and special interests make implementation difficult
	W2. Coordinate measures with different authorities	





















	STRENGTHS	OPPORTUNITIES
	S1. The boundary sites are available	O1. The variation of border locations is not large in Lower
	S2. The possible development has good prerequisites	Saxony
Others		O2. The transport links are good
Others	WEAKNESSES	THREATS
	W1. Diversity can be a problem	T1. Small ruminants are not always at an advantage
	W2. The actors would have to agree	T2. Society must want it and support it





















1.2.4. Portugal

	STRENGTHS	OPPORTUNITIES
How to join the	S1: Recent new schools of shepherds initiatives in Portugal, increasing the specialized training offer. S2: Profession still seen as a natural and traditional way of living, preserved through generations.	O1: Good coverage of the territory by the current agrarian training system. O2: Increasing interest of new entrepreneurs, with non-traditional training backgrounds. O3: New funding opportunities related to pastoralism.
sector	WEAKNESSES	THREATS
Sector	W1: Lack of specialized training offer in formal and non-formal systems. W2: Family background is the main source; Advanced age of shepherds. W3: Lack of recognition of professional training courses comparing to university degrees.	T1: Lack of private entities interested in pastoralism training. T2:Low recognition of the value of pastoralism as a profession. T3: Strong mental health needed in order to be a shepherd.



















	STRENGTHS	OPPORTUNITIES
Production techniques	S1: Use of local breeds is very present. S2: National Plan on Rural fire integrated management higlights pastoralism as a priority of fire prevention.	O1: New wildfire risk mitigation and fuel management funding opportunities. O2: Local breeds associated to product certification (PDO or PGI). O3: New projects such as Cabras Sapadoras (Sapper goats) to value the pastoralism services.
	WEAKNESSES	THREATS
	W1: Lack of available grazing areas of considerable size. W2: Local breeds are not profitable. W3: High mortality of lambs (diseases).	T1: Lack of a banking credit system dedicated to pastoralism. T2: Local breeds have low economic return on investment compared to exotic breeds.

	STRENGTHS	OPPORTUNITIES
Farm management	S1: Extensive pastoralism is associated with organic farming S2: Pastures management through livestock exploitation is an important tool to fire prevention	O1: Cross-border good experiences (from Spain) in pastoralism O2: Controlled fire training in pastoralism O3: New initiative of Land Bank, to facilitate acess to available land
	WEAKNESSES	THREATS
	W1: Land reparcelling makes management difficult	T1: Poor pasture management with forest areas





















W2: Conflicts with land owners. W3: Pesticides management and conflicts with shepherds.	T2: Sustainability of pastoralism management is highly related to seed production.

STRENGTHS	OPPORTUNITIES
S1: Traditional pastorialism in natural pastures (extensive breeding) still present, with local breeds.	O1: Environmental services, such as maintenance of the vegetation under the electric lines is compulsory for eletric
	companies.
WEAKNESSES	THREATS
W1:Pastoralism is mainly dependent of cheese production	T1: Traditional production methods at risk of disapairance.
dynamics.	T2: Capacity of shepherds to maintain vegetation is low.
W2: Decrease of associated professions of pastoralism (cheese	
,	
W3: Low training in innovative production methods.	
	S1: Traditional pastorialism in natural pastures (extensive breeding) still present, with local breeds. WEAKNESSES W1:Pastoralism is mainly dependent of cheese production dynamics.

F	Production	STRENGTHS	OPPORTUNITIES
		S1: Pastoralism can be associated with side projects of high	O1: Increasing touristic interest in the pastoralism way of
"	alorization	income (beef, hunting, cork, leisure activities, olive, environmental	living (transhumance and cultural events) and in natural and





















services, wine, etc). S2: Recent creation of Vale Pastor (monetary price to shepherds that supply certified cheese factories).	traditional products obtained from pastoralism (wool textiles). O2: Funding opportunities related to circular economy of natural products and pastures/forages. O3:Increasing interest in organic farming products (beef, black pig, sheep milk).
WEAKNESSES	THREATS
W1: Products such as wool and manure are not rewarded. W2: Certification of products has to be paid by producers. W3: Low training in production valorization.	T1: Low prices on milk and cheese. T2: Imported raw milk from France. T3: Milk mixtures.

	STRENGTHS	OPPORTUNITIES
Application of	S1: Majority of shepherds have a mobile phone.	O1: Animal tracking solutions available to shepherds. O2:Online local cheese market places to value products.
new technologies	WEAKNESSES	THREATS
teermologies	W1: Low skills on ICT.	T1:Lack of phone coverage in mountain areas.





















GPS tracking collars and mobile phones.	
Etc.	

	STRENGTHS	OPPORTUNITIES
	S1: Increasing public awareness of pastoralism value due to fire prevention.	O1: Local breed associations have a good presence near the shepherds (vet services, legal support, etc). O2: New agroenvironmental funding opportunities.
Regulatory		
framework in	WEAKNESSES	THREATS
force in	W1: Huge bureaucracy constraints related to livestock funding	T1: Bureaucracy constraints have led to a decrease in new
Portugal	(regime for the exercise of livestock activity).	shepherds.
	W2: Huge bureaucracy constraints related to licencing the	T2: Lack of shepherds associations or unions in the country
	stables.	(national, regional and locals).
	W3: Livestock regulations is designed for Pig farming and Poultry.	T3: Rule of 200 meters distance between urban areas and livestock exploitations.
	i i Guid y.	investook exploitations.

	STRENGTHS	OPPORTUNITIES
Others	S1: Increasing interest in pastoralism as a way of protecting	O1: 207 PDO products in Portugal.
	animal wellfare.	O2: Several research projects happening in Portugal





















	related to pastoralism (climate change, mountain ecosystems, controlled fire, etc).
WEAKNESSES	THREATS
W1: There are more bureaucracy technicians than shepherds in Portugal. W2: Expensive legal certification of oficial entities.	T1:Areas affected by forest fires should be prioririty shepherds areas. T2: Low available training regarding environment, hygiene
W3:Conflicts with stray dogs, pesticides, protected wild flowers.	and animal wellfare.



















1.2.5. Romania

	STRENGTHS	OPPORTUNITIES
	S1: Significantly large agricultural areas with a high share of	O1: Increasing demand for agro-food products
	meadows	O2:Bio/ecological production has favorable development
	S2: High potential for crop diversification	prospects
	S3: Wide range of mountain and traditional products.	O3:The growing demand for quality local and regional products
		O4:Exposure to global markets (Constanta port), river links with
		the main EU countries (Danube)
How to join the	WEAKNESSES	THREATS
sector	W1: Low productivity, well below the real potential, especially in the	T1: Insufficient absorption of EU funds
	livestock sector	T2:Political instability
	W2:Low access to capital and credit	T3:Foreign competition (including for green products)
	W3:Small and medium-sized farms with low levels of inputs used	T4:Lack of investment and long implementation period of projects
	(fertilizers and plant protection products) equipment and an	needed to modernise rural infrastructure
	outdated genetic base	
	W4: Unorganized Supply Chain (long distance from farm to market)	
	W5:Lack of marketing and processing infrastructure leading to low	
	revenue	
	W6:Marketing channels unsuitable for small farms	





















	STRENGTHS	OPPORTUNITIES
	S1: Large but low productivity workforce	O1: Promoting innovative techniques at farm level, obtaining new
	S2:Opportunities for the development of agro-tourism based on	products and processes,
	extensive agriculture	O2:Increasing the degree of innovation in the agricultural sector
	S3:Improving living standards in rural areas,	O3: Increasing economic performance and incomes at farm level
	S4:The differences between rural and urban areas in terms of	by optimizing farm production and introducing specific circular
	urban income are reduced	economy elements, by using precision agriculture and modern,
	S5:Positive attitude towards small entrepreneurs	environmentally friendly technological sequences
Duadration		O4:Development of the middle segment of agriculture in
Production		Romania by supporting incomes and investments at the level of
techniques		agricultural holdings
	WEAKNESSES	THREATS
	W1:Population ageing	T1: Abandonment of agricultural activity due to low incomes and
	W2:Reducing employment opportunities in agriculture	their large variations
	W3:Depopulation of villages	T2:Price fluctuations for agricultural products and exposure of
	W4:Internal rural labour mobility	farmers to market risks
	W5: The degree of technical equipment decreases in proportion to	T3:Increase in energy prices and inputs;
	the decrease in the size of the exploitation	T4:Increase the number of extreme climatic events and the
	W6: High income volatility (caused by drought, floods, diseases).	intensity of these.
	W7:High rates of unemployment among young people	





















	STRENGTHS	OPPORTUNITIES
	S1: High share of rural areas	O1: CAP 2021 – 2027 more flexible for EU-28 diversity providing an
	S2:Rich rural heritage	appropriate framework to continue restructuring and investment
	S3:Improving living standards in rural areas,	O2:Possibility to use European Structural and Investment Funds for a
	S4:Ensuring financing from European funds	national cadastre system
		O3:Marketing facilities for producer groups and producer associations
		O4: Diversification of the rural economy creates jobs outside the
		agricultural sector
_		O5:Creating jobs in rural areas by penetrating foreign-owned
Farm		enterprises (producers, services, etc.)
management		O6:The average salary in rural areas increases due to economic
		growth
		O7:Possibility to use remittances for investments O8:Intensification of
		agro-tourism
		O9:Emergence of small young agricultural entrepreneurs
	WEAKNESSES	THREATS
	W1: High share of farms without legal personality	T1: Migration of young and skilled population from rural areas to urban
	W2:Lack of a functional cadastre system with high costs for	areas and other countries
	land registration	T2:Risk of depopulation of rural areas
	W3:Large number of farmers who are not eligible for	T3:Outdated skills and knowledge of agricultural administration staff
	technical assistance	





















W4: High share of subsistence and semi-subsistence farms
W5:Slow transfer of land to young people and new entrants
W6:Insufficient public consultancy services
W7:Small number of producer organisations

	STRENGTHS	OPPORTUNITIES
Production methods	S1:Satisfactory water resources S2:Relatively high share of forests in OR S3:Wide range of renewable energy sources S4:Diverse natural environment	O1: Increasing modern agricultural land management practices through research/innovation and extension O2: Mass penetration of modern management practices through research and extension O3:Development and/or use of climate-resilient species O4:Increasing renewable energy resources in agriculture O5:Sustainable resource management
	WEAKNESSES	THREATS
	W1: Poor quality physical infrastructure in rural areas W2:Weak local production and development initiatives W3:Low average income (poverty) W4:Poor quality general and basic rural infrastructure (roads, drinking water supply services, centralization and wastewater treatment/waste treatment, broadband, energy and gas networks)	T1: Accelerated climate change and frequent occurrence of natural disasters and adverse weather conditions T2:Inadequate management of natural disasters T3:Natural disasters and increased soil erosion following deforestation T4:Reduction of water supply due to climate change T5:Temperature increase and change in precipitation patterns





















	T6:Mismanagement of agricultural production practices, resulting
	in an increase in pollution levels
	T7:Decreased biodiversity

	STRENGTHS	OPPORTUNITIES
	S1: Diversified agricultural production, both in the vegetal	O1: Significant support for EU investments contributing to the
	and livestock sectors	modernisation and restructuring of the agricultural sector, with a view to
	S2: Significant area of agricultural land under agro-	improving productivity, competitiveness and sustainability, including the
	environmental commitments promoting extensive	circular economy and innovation in agriculture and the food industry
	agricultural practices, which contribute to the reduction of	O2: EU support for associative forms with an economic role in the
	greenhouse gas emissions and adaptation to the effects	beekeeping and fruit vegetables sectors
Production	of climate change	O3: EU support for the establishment/development of
	S3: Pilot projects in the development of short supply	collection/storage/and distribution systems, including food markets for
valorization	chains and local markets	Romanian producers
	S4: Large number of mountain products	O4:Development of administrative partnerships between urban and rural
		proximity centres in order to dissolve productions/ agricultural products/
		food products of first transformation
		O5:Upward trend in terms of product demand based on short supply chains
		and marketing on the local market,
		O6:Growing consumer interest in direct marketing locally, including through
		the use of on-line platforms for the marketing of agro-food products
		O7: Increasing trend in the number of products registered in quality and
		European schemes, especially mountain





















WEAKNESSES	THREATS
W1: High share of small and very small farms, associated	T1: Increase in energy prices and inputs:
with a significant percentage of households with	T2: Intensification of animal health problems and increase the
household/extensive farm systems"	consumption of medicines in animal husbandry technologies and increase
W2: Poor adaptation of farms in managing the risks	the risks of cross-border diseases, which induce risks from the perspective
associated with adverse environmental conditions	of population health and food safety
W3: Ageing population at farm managers' level, with a low	T3: Maintaining a low degree of development of the basic infrastructure,
level of higher specialisation in the agricultural sector	with negative effects on investments in the agri-food sector
W4: Low number of viable and competitive associative	
forms on the market (producer groups, producer	
organizations, agricultural cooperatives, etc.)	
W5:Poor cooperation between farmers and other actors,	
reflected in a low degree of association with implications	
for the viability of farms	

	STRENGTHS	OPPORTUNITIES
Application of	S1:Emissions of CH4 and N2O in Romania / Ha or among the	O1: - Providing European funds for the application of environmentally
new	lowest at EU level	friendly practices leading to the reduction of GHG emissions and
technologies	S2:Total GHG emissions from agriculture are low compared to	adaptation to the effects of climate change
	EU level	O2: - Increasing consumer interest in products obtained in organic
	S3:In Romania a large share of the total production of ER	farming and through other environmentally friendly agricultural
	comes from the agricultural and forestry sectors	practices























S4:Significant area in or of permanent grassland, with an	O3: - Use of precision agriculture and other new technologies leading
important contribution to soil carbon storage	to the conservation of productive potential in the context of mitigation
	and adaptation needs to climate change (water retention in soil,
	reduction of soil degradation process, reduction of soil fertility loss
	phenomena, reduction of unfavorable impact of global climate
	change, etc.)
WEAKNESSES	THREATS
W1: The use of conventional, intensive agricultural practices	T1: - Increase in the number of extreme climatic events and their
over large areas and small ecologically cultivated area	intensity
W2: The number of animals of local breeds in danger of	T2: - Decrease in areas cultivated according to organic agricultural
abandonment, adapted to local conditions and contributing to	practices and increase in the negative impact on the environment of
genetic diversity is decreasing due to their low productivity	agricultural activities as a result of intensive farming practice
W3: Insufficient knowledge of farmers in the production and use	(especially on the most productive agricultural land)
of renewable energy and the use of methods and technologies	Q3: - Failure to adapt the capacity of training and consultancy
that contribute to their genetic diversity is generally decreasing	services, from a quantitative and qualitative point of view, to the
due to their low productivity	needs of farmers
W4: Insufficient knowledge of farmers in the production and use	
of renewable energy and the use of methods and technologies	
that contribute to e to adapt to climate change and reduce GHG	
emissions	





















	STRENGTHS	OPPORTUNITIES
	S1: Existence of the specific legislative framework for the mountain	O1: The new National Strategic Plan 2021/2023- 2027
Regulatory	area	
framework in	S2: Optional mention of quality Mountain product in accordance	
force in each	with the legislation in force	
country	WEAKNESSES	THREATS
-	W1: Lack of a comprehensive and unified legislative framework for	T1: The increased pace of depopulation and abandonment of
	regulating the short supply chain	agricultural activities by farmers in the mountain area
	W2: Lack of knowledge of legislation on the protection of the rural	T2: The lack of interests of politicians and those in the
	environment	administration pu blica agricola



















1.2.6. Spain

	STRENGTHS	OPPORTUNITIES
	S1: Neo-rural people willing to start a business in rural areas.	O1: The implementation of qualification strategies can improve the social
	S2: Extensive livestock farming contributes to mitigate the	perception of the sector.
	depopulation of rural areas.	O2: The number of people with university degrees is increasing
	S3: Among the transhumance farmers there is a young group,	significantly.
	committed and willing to bet on the sector.	Increasing support from the European Union for family farming production
	S4: The larger the farm, the higher the level of qualification.	models, young farmers, small farmers and mountain farming.
		O3: The immigrant population may be more interested than the local
Have to		population in becoming shepherds.
How to		O4: The circumstances of the pandemic crisis may lead to a return of certain
join the		people to work in the rural environment and in the agriculture and livestock
sector		sectors.
		O5: The integration of women in the transhumant livestock farming sector
		may lead to greater social recognition and a greater attraction to work in the
		sector.
		O6: Aid for the installation of young farmers and the modernization of farms.
		O7: Appearance of corporate formulas in response to the difficulties in
		financing investments in the incorporation processes (Agricultural
		Transformation
		O8: Companies Cooperative and Limited Liability Company).





















	O9: There are large areas of underutilized pastures covered with scrub. O10: Pastures represent more than 50% of the land surface in many municipalities. O11: As an economic resource, they can only be used by extensive livestock farming. O12: There are plans to make payments for environmental services or land contracts that could be useful to support extensive livestock farming.
WEAKNESSES	THREATS
W1: The vast majority of livestock farm managers have exclusively practical experience; very few have formal training. W2: Tasks that will become increasingly mechanized and complex, requiring higher qualifications. W3: There is a lack of adequate training centers for herders and/or livestock farmers. W4: There are fewer and fewer young people in the Spanish agricultural sector, but with larger farms. W5: There is little infrastructure in the mountain ports or it is in poor conditions. W6: High dependence on subsidies to achieve economic viability of farms.	T1: Access to land, financing and knowledge are significant barriers that prevent young people from taking up farming or ranching. T2: Access in rural areas to infrastructure and basic services equivalent to those enjoyed by young people who do not live in rural areas, such as broadband, childcare, schools, transportation, and postal, health and replacement services. T3: Depopulation and aging of the population continue to be very serious problems in rural areas. T4: The need to make a large investment to start a farm. T5: There is a problem of a lack of generational replacement among livestock breeders and shepherds. In particular, it is difficult to find new shepherds who know the transhumant trade or have an interest in learning it.





















W7: Young farmers hardly receive any CAP subsidies: 91% of direct CAP subsidies are received by people over 40 years of age and 38.14% of the total are over 65 years of age.

W8: The integration of women in the sector is very scarce and, when it occurs, it is not very visible. There is a great lack of recognition of the role of women in the sector.

W9: Women enter livestock farming at an older age than men; in many cases they are over 40 years of age, which is the limit for applying for aid for the incorporation of young people into the Spanish agricultural sector.

W10: Depopulation of large rural areas.

W11: Processes of masculinization of the rural environment.

W12: The reconciliation of work and family life is complicated.

W13: There is a general lack of knowledge about the current situation of transhumance in society, sometimes distorted by the superficial information offered by the media about this activity.

W14: Lack of associations through cooperatives to maximize marketing and boost sales to increase farm profitability

T6: There are certain conflicts of use in some ports with equine and bovine cattle belonging to neighbors of the towns where the mountain ports are located.

T7: The low prices paid for lamb and wool complicate the viability of transhumant livestock farms.





















	STRENGTHS	OPPORTUNITIES
	S1: Transhumance sheep flocks also include goats, which contributes	O1: Mastery of environmental contents, knowledge of the use of
	to the diversification of farms.	certain substances and their effects on soil, water and human
	S2: Among the farmers who practice transhumance to the mountain	health are key for all agricultural and livestock professionals, not
	ports, there are diverse management options and alternatives,	only because of the requirements derived from regulations, but
	different cycles and periods of stay in the ports. This diversity reflects	also because of the increase in profitability caused by influencing
	the richness of the activity.	these aspects.
	S3: Current farm management allows for higher production and lower	
	costs than traditional transhumance management.	
Farm	WEAKNESSES	THREATS
	W1: Lack of training and technical information adapted to the	T1: Emerging diseases put the health of the animals at risk and,
management	production system.	as a consequence, increase farm management costs.
	W2: Livestock waste produced by sheep is not adequately managed.	T2: The hardiness and adaptation to the environment of some
	W3: Transhumant livestock farming, by its nature, is strongly	sheep breeds has decreased in some flocks due to crossbreeding
	dependent on the environmental conditions that occur each year,	with other breeds such as Landschaft.
	which can lead to significant variations in farm yields.	
	W4: The decrease in product prices generates the need to have a	
	greater volume of animals per farm to achieve the same profitability,	
	which entails an overexertion in the farmer's daily work.	
	W5: The movement of livestock requires an extra personal and	
	economic effort, in addition to the permanent care required by sheep.	





















	STRENGTHS	OPPORTUNITIES
	S1: The conversion from conventional to organic production is relatively	O1: Evolution of consumption habits: increased consumption of
	easy since sheep farming in extensive is very close to the criteria	quality, natural, healthy organic products and meat from livestock
	required in organic production.	raised under high animal welfare standards, with traceability, with
	S2: Extensive sheep farming is a system very close to organic farming	nutritional and functional qualities.
	that requires minor modifications to comply with organic production	Increasing inclusion of the feed sector in the organic industry as a
	regulations.	nutritional supplement to organic livestock.
	WEAKNESSES	THREATS
	W1: Little specific training in organic production. W2: Greater documentation requirements if the production is organic for certification and control. W3: A large part of the grazing areas are public forests, whose pastures must be previously certified as organic by the entities that manage them.	T1: Lack of specific training on organic production.
Production		T2: Possible contamination of the environment and organic plots
methods		due to imperfect applications of phytosanitary treatments in nearby
memous		plots.
		T3: Lack of consumer information on what an organic product
		really is, how it is produced and its advantages for the environment
		and health.
		T4: Confusion between the terms healthy, dietetic and organic,
		with what they
		in terms of the characteristics of the products.
		T5: Predominance of long distribution channels or in the hands of
		large distribution groups that distance the producer from the
		consumer by raising the price of the product.





















OPPORTUNITIES STRENGTHS O1: The transfer to the consumer of the environmental benefits of S1: The growing recognition by the administration and society as a whole of the importance of conserving transhumant livestock farming. transhumant livestock farming can generate support for these S2: The recent creation of organizations that watch over extensive and products and a differentiated market with better prices. transhumant livestock farming at the regional, state and European O2: There is an increasing demand for quality and organic levels opens the door to generating greater influence on policies products by Spanish consumers. related to the sector. O3: The presence of short marketing circuits or consumer groups that are committed to buying directly from the producer is S3: The possibility of improving external aid for environmental services rendered in the future could help to make farms more viable. becoming more frequent. This could be an opportunity for quality S4: The fact of having a differentiated product (transhumant lamb products such as transhumant merino lamb. grazing in the mountain passes) could be a strong point for the future O4: There is a network of rural tourism lodgings and hotels in the Production marketing of this meat in a differentiated way through a specific quality area that represent a potential market for the sector. valorization seal. O5: The increase in cereal prices affects this sector less negatively S5: The location of ports in protected natural areas can also help to than intensive livestock farming, which is a competitive factor. differentiate and position the product in the market. O6: Increase of immigrant population, consumer of sheep meat, S6: There have already been and there are experiences linked to example of it is the case of the Moroccan population, in which the cooperativism among livestock farmers, which implies a certain sheep is present in its main celebrations of the year. knowledge of the implications of this type of marketing solutions. O7: Growth of fast food sales based on sheep meat (Kebab). O8: There are products with market potential to be explored, such S7: Increased consumption of organic products and conscious consumption of meat from a rational system. The extensive as sheep or mutton jerky or sausages made from sheep meat. transhumant system is in accordance with the principles of animal O9: Proximity to important centers of consumption and a network welfare. of roads and highways in good condition would facilitate good marketing and distribution.





















S8: The stay in the mountain ports improves notably and visibly the	
health of the herds.	
S9: Transhumant livestock farming includes a lower presence of	
compound feed and non-natural products in the livestock feed.	
WEAKNESSES	THREATS
W1: The scarce tradition of processing or direct sales in short	T1: The progressive concentration of sales in a very limited
marketing circuits, which prevents increasing the added value that	number of large distribution brands, with purchasing policies that
the livestock activity could generate.	in principle do not benefit small producers.
W2: At present, there is no differentiation in the transhumant lamb	T2: Lamb consumption could fall even further if the situation of
market. The commercialization of this product is undifferentiated	economic crisis and reduction in household spending persists.
from other lambs raised in different circumstances.	T3: The information reaching the public about the harmful effects
W3: An important part of the value of the product is left in the hands	of livestock farming on the environment in relation to climate
of the intermediaries, who also do not provide sufficient information	change (methane emissions).
to the market about the product and its differentiation.	T4: The spread of new eating patterns with less meat
W4: There have been some bad experiences of cooperativism	consumption, particularly red meat.
among farmers in the sector, which may hinder future initiatives in	
this direction.	
W5: Lamb prices are subject to a strong seasonality, closely linked	
to certain festivities and times of the year, such as summer or -	
particularly- the Christmas season.	
W6: Little training in quality management, traceability, marketing or	
business communication.	
W4: There have been some bad experiences of cooperativism among farmers in the sector, which may hinder future initiatives in this direction. W5: Lamb prices are subject to a strong seasonality, closely linked to certain festivities and times of the year, such as summer or particularly- the Christmas season. W6: Little training in quality management, traceability, marketing or	



















W7: Scarce offer on marketing models (direct sales, knowledge of the				
value chain, grouping of productions, etc.), hygienic-sanitary				
requirements, etc.				

	STRENGTHS	OPPORTUNITIES
		O1: There are more and more technological devices for extensive
		livestock farming based on GIS and remote sensing.
		O2: Need to record data related to farm management (traceability).
		O3:.Need to use information technologies for marketing and
		business management.
Application of	WEAKNESSES	THREATS
new	W1: Poor use of equipment based on remote sensing and data	T1: Internet access problems in rural areas.
technologies	collection.	
	W2: Little training in the use and processing of data provided by	
	technological devices and the benefits offered by the information	
	collected to plan production strategies and manage farms.	
	W3: Little use of social networks to promote the livestock activity	
	or the product or to communicate the benefits of livestock activity	
	in society.	





















	STRENGTHS	OPPORTUNITIES
	S1: The existence of organizations that watch over extensive and transhumant livestock farming at the local, regional, state and European levels is a useful instrument for exerting greater influence on policies related to the sector. S2: The possibility of improved external aid for environmental services provided in the future can help to make farms more viable.	O1: The upcoming CAP reform is an important opportunity to reinforce the role that extensive and transhumant livestock farming plays in the territory and to ensure that payments to livestock farmers are more in line with the environmental service they provide.
	WEAKNESSES	THREATS
Regulatory framework	W1: Current CAP subsidies are decoupled from real production and the environmental services that extensive and transhumant livestock farming provide to society. W2: There is a lack of coordination between the environmental and agricultural administration that has a negative impact on the sector. W3: Existing initiatives to support and recognize extensive and transhumant livestock farming are not yet sufficiently coordinated. W4: Lack of knowledge of health legislation on the part of some farmers and shepherds.	T1: Different regional regulations greatly complicate livestock movements between different territories. T2: Certain regulations that are at odds with animal health and welfare such as the obligation to identify animals with intraruminal boluses or vaccination against bluetongue - can be detrimental to livestock. T3: Health legislation does not take into account the particularities of transhumant livestock farming and makes it share regulations, restrictions and controls with intensive livestock farming, a sector with which it has little in common. In particular, the difficulties in the management of carcasses, transport guides and sanitation deadlines. T4: The complex administrative procedures related to livestock health and identification complicate economic activity.





















T5: The absence of a more collaborative character on the part of the
technical and administrative personnel in charge of dealing with
transhumant livestock farmers.
T6: Great media and political pressure from the large intensive production
cooperatives, whose interests contrast with those of extensive production.

	STRENGTHS	OPPORTUNITIES
Others	S1: There is a great livestock tradition in Spain. S2: Transhumance generates social interest and media attention. S3: The traditional network of cattle trails and their use for livestock movements also form a network of ecologically important corridors. S4: Extensive livestock farming contributes to mitigating the depopulation of rural areas. S5: Extensive livestock farming can be one of the alternatives to mining, together with the use of other forest products, rural tourism, etc. S6: Transhumant livestock farming is a way of using the pastures of the mountain passes in a sustainable and environmentally friendly way. S7: This system maintains autochthonous cattle breeds of great hardiness and adaptation to the environment.	O1: Transhumance can be linked to the need for new services and products related to leisure and tourism. O2: Livestock farming is a very useful tool for managing natural areas, improving their biodiversity and preventing forest fires. O3: There is a growing recognition by the administration and different organizations of the importance of transhumance livestock farming as a traditional and beneficial use for the environment.



















S8:	There	are	fairs	and	other	social	events	organized	to	support
tran	shuma	nce.								

S9: There is a great cultural and ethnographic heritage around transhumance that society knows it is necessary to preserve.

S10: There is a large amount of documentation, bibliography and work done on transhumance. Transhumance is very well documented.

S11: There are very notable and rigorous researchers who have been working on the subject for many years and are an unequalled source of information and knowledge.

S12: It is a system that, in addition to maintaining native breeds of sheep, also preserves native breeds of dog that are fully adapted to the needs of transhumance sheep farming, in particular defense against predators -mastiffs- and the movement of flocks -carrows-.

WEAKNESSES

W1: The great heterogeneity of livestock landscapes and uses makes it necessary to specialize and refine qualification strategies in the sector.

W2: The administrative system for allocating ports is complex and not very agile in terms of its design and procedures.

THREATS

- T1: The progressive increase of cattle and horse herds generates greater competition for the use of mountain passes.
- T2: The difficulties to develop transhumance livestock activity in a globalized market could end up extinguishing transhumance in mountain passes.
- T3: The impact of climate change on the dynamics of vegetation in mountain passes could have a negative influence on transhumance livestock activity.























1.2.7. UK

	STRENGTHS	OPPORTUNITIES
		O1:There are a range of training grants, free advice and mentoring service
	S1:Many shepherds in Scotland, potential for work	for new entrants, including the Women in Agriculture Training Fund & Farm
	experience & learning from others.	Advisory Mentoring Service
		O2:There are a range of new business and entrepreneur advice hubs
How to join		offering business and marketing advice.
the sector	WEAKNESSES	THREATS
	W1: Perceived as a poorly paid sector	T1:DIfficult to promote to young people as a viable, achievable career if not
	W2:Renting land is difficult as the profit margin is low & long	from a farming background already.
	term habitat management (e.g. agroforestry) is difficult	T2:Difficulties of establishing long term habitat management, breed
	without owning the land.	development, secure sustainable business on rented land, or finding capital
	without owning the land.	to buy land.

	STRENGTHS	OPPORTUNITIES
Production techniques	S1:Growing interest in locally produced, sustainable meat S2:Much of the land in Scotland is not suitable for large scale arable farming, but can support sheep farming & lots of potential for agroforestry combined with shepherding S3 Range of breeds (rare and native)which have different properties & characteristics suitable for different habitats & products.	O1:There are some grants for agroforestry improvement & an information hub in Scotland O2: Conservation grazing does exist and there might be potential for more if linked to well marketed, sustainable products



















	O3:Providing more opportunities to process and market wool for textiles and home insulation could make use of abundant material & improve income options for shepherds.
WEAKNESSES	THREATS
W1:We have lots of wool, much of it from extensively managed hill sheep but very low wool prices (less than the cost of shearing) and very few places to process the wool, leading to long waits for small producers W2: The costs of keeping sheep (feeding, land, health care costs, mortality) versus sustainable profits make it a uncertain employment.	T1:Low income for Scottish shepherds & post Brexit uncertainty forces shepherds to quit or not to start new sheep enterprises T2:Further reduction of rural abattoir services T3:Wool processing facilities & price/market for wool continues to decrease.

	STRENGTHS	OPPORTUNITIES
	S1:Sheep keeping & agroforestry have potential in large areas of	O1:Training & some grants available for agroforestry, conservation
	marginal agricultural land in Scotland	grazing techniques,
	S2:Range of different sheep keeping models (lowland, upland,	O2:Sheep dog training including virtual training allows shepherds
F	small, medium & large enterprises, full time & part-time models	to train own dog, rather than high cost of purchase
Farm	S3: Good sheep dog allows for management of larger	O3:New farm support system post Brexit could include incentives
management	S4: good advice & breed information for rare & native breeds.	for more sustainable farm management.
	WEAKNESSES	THREATS
	W1: Overgrazing and low prices for products are negative for the environment and for shepherd livelihoods.	T1:Uncertain farm support systems post Brexit





















W2: Costs of animal welfare, veterinary services are high in	T2:Long term planning & investment needed to implement
relation to potential income	sustainable management techniques without a guaranteed income
W3: Wool shearing is a cost, necessary for animal welfare but no	T3: Loss of more rare and native breeds.
income.	

	STRENGTHS	OPPORTUNITIES
Production	S1:Growing number of well marketed, sustainably produced meat acts as a model for others S2:Sheep milk/cheese, a small niche market but strong national organisation offering training & advice S3: Business & marketing support for (specialist & non-specialist available).	O1:Training funds available & a number of professional organisations to share best practice on production methods O2: Locally sourced wool could become a more valued product for textiles, craft & house insulation.
methods	WEAKNESSES	THREATS
	W1: Fewer abattoirs and need to transport long distances in rural areas (decreases animal welfare & increases costs to small & medium producers) W2: Lack of wool processing facilities, long waits for small producers.	T1: Lack of knowledge or confidence in marketing products leads to lower profits and fewer or poorer shepherds & less benefits for everyone T2:Wool is destroyed as uneconomical and sustainable, local material is lost.

Production	STRENGTHS	OPPORTUNITIES
valorization	S1:Several certifying brands are available & recognised by the public	O1:Greater demand for locally sourced & sustainable food from
Valorization	including, Organic, but also biodynamic & pasture fed, big barn etc.	a range of outlets and online platforms.























WEAKNESSES	THREATS
W1:Expensive to certify products in a poorly paid sector & for smaller producers.	T1:Lack of uptake by producers makes it difficult for certifying organisations to continue or increase their activities T2: Fewer outlets (physical or virtual) for sustainable products & lower salaries to buy higher quality products after COVID10.

	STRENGTHS	OPPORTUNITIES	
	S1: Direct selling & marketing opportunities S2: Sheep record keeping online S3: virtual & online training easier for rural & remote	O1:affordable training & professional development for rural	
		isolated area	
		O2:Direct engagement with customers	
Application of new		O3:direct engagement with other shepherds	
• •		O4: flock management & habitat/farm management tools.	
technologies	WEAKNESSES	THREATS	
	W1: Access to good internet connections		
	W2:Engagement interest & training for shepherds of	T1:Costs & necessary training for smaller enterprises.	
	different backgrounds, interests and ages.		



















	STRENGTHS	OPPORTUNITIES
	S1:Strong interest for providing training	
	opportunities for young people	O1: Funding for training young people & supporting women in agriculture
	S2:Commitment of Scottish government to	O2:Net zero Scotland and reduced carbon farming techniques, high in
	be carbon net zero by 2045	political agenda (including COP 26) & in public consciousness
Regulatory framework in	S3: Biodiversity targets (Aichi) including	O3:agroforestry funding streams.
	agricultural land & management.	
force in each country	WEAKNESSES	THREATS
		T1:Lack of political will to implement carbon reduction measures
	W/4. Uncertain eveterns neet Provit	T2:Lack of support for sustainable farming in post-Brexit systems
	W1: Uncertain systems post Brexit.	T3:Agroforestry is carried out poorly & does not include integrated
		livestock systems.





















1.3. Detected needs

As a result of the diagnostic process of extensive livestock farming in the partner countries, a series of needs are identified from which strategic lines of action will be established in order to achieve quality training for potential shepherds.





















1.3.1. Austria

TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER		
Training needs related to production techniques					
Animal nutrition	Animal welfare and productivity	Pasture management	LFI offers, part in the certificate course sheep		
		Concentrate feeding	and goat (80 hours)		
Claw health	Most farmers are doing claw trimming by	Claw trimming	LFI offers, part in the certificate course sheep		
	themselves.		and goat (80 hours)		
	Training needs derived fr	om the management of extensive livestock farms			
Herd-protection	Increasing predators	Fencing systems, shepherds, protection-dogs	Offers in planning, planned start in autumn		
			2021		
Adaption to climate	Changes in plant use (higher temperatures,	Grassland management	Different one day seminars in general,		
change	longer vegetation period), animal disease	Animal health	But missing: climate change topic		
	management because of higher temperatures	Housing systems – emissions, heat stress			
	(e.g. ticks and worms)				
Herd management and	Animal welfare	Housing systems	LFI offers, part in the certificate course sheep		
housing-systems			and goat (80 hours)		
	Training needs de	erived from the valorization of production			
Basics of marketing	Many farmers produce highest quality,	Existing brands	Webinar, certificate course		
	necessary to get a good price, basic for	Basics of self-marketing			
	economic success	Pricing			
Basic of product	To get added value	Milk processing	LFI offers, part in the certificate course sheep		
valorization		Meat processing	and goat (80 hours)		
		Wool processing			





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER			
	Training needs derived from the application of new technologies					
GPS tracking	Animal protection, herd management in grazing team: loss of sheep, absence of shepherds	Handling of GPS tracking	Regular seminars at AREC			
	Training needs o	derived from the regulatory framework				
current regulatory	To be on the actual status	animal protection law	LFI offers, part in the certificate course sheep			
framework		animal transportation food safety	and goat (80 hours)			
Possibilities for subsidies	To apply for funding	Funding programmes	LFI			

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1.3.2. Bulgaria

TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER		
	Training needs related to production techniques				
Meat.	Low purchase prices of the lambs.	Relationship with butchers and selling meat directly.			
	Problems of access to abattoirs in	Training in short marketing channels.			
	rural areas.				
Wool.	The price of the fleece does not	Breed selection for wool, management and shearing			
	cover the shearing costs, but needs	techniques for best wool products, developing markets			
	to be done for animal welfare. A	(how to access wool processing).			
	sustainable local				
	productisunderutilised.				
Habitat management.	Mountain pastures in Bulgaria are				
	rich in species diversity habitats and	Grazing for the prevention of forest fires.			
	are a good prerequisite for their use				
	as grazing.				
	Training needs derived f	rom the management of extensive livestock farms			
Pasture and	Balancing sheep nutrition with	Grazing and feeding regimes to reduce reliance on			
foddermanagement.	biodiversity, healthy ecosystems and	veterinary drugs.			
	climate change measures.				
Animal health and	Keeping healthy sheep with the	Efficient sanitary management of livestock. Health			
welfare.	minimum of veterinary products in a	promotion (maintenance and improvement of health) and			
	range of habitat is essential to the	prevention (control and eradication of diseases).			
	role. Managing sheep health, lamb				
	mortality effectively reduces vet and				





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
	veterinary product costs and allows	Sheep health and welfare; lambing, grazing and fodder	
	for a more sustainable business	regimes to reduce reliance on veterinary products, non-	
	model.	surgical procedures, animal management techniques.	
		New emerging diseases.	
		Keeping healthy sheep with the minimum of veterinary	
		products.	
		Possible alternative, non-conventional veterinary	
		treatments.	
Coexistencelivestock-	The gray wolf (Canis lupus) and the	Livestock guardian dogs breeds.	
largecarnivores.	brown bear (Ursus arctos) are	Learn about the different protection methods and	
	protected species for Bulgaria. T he	experiences in other areas where large carnivores coexist.	
	protection of large carnivores such as	How to develop ecotourism projects around the large	
	the wolf is increasingly high, and the	carnivores.	
	aid from the administration for the		
	farmers is not enough.		
	The livestock guardian dogs are an		
	traditional and effective way to		
	protect sheep flocks and to make it		
	more economic to keep sheep.		
	Knowledge of the different breeds of		
	livestock guardian dogs, their specific		
	characteristics, would be useful for		
	their use in different areas.		























TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
Breedselection.	Breed selection for specific habitats, specific products (meat, milk, wool, grazing habit) or to conserve the genetic stock of rare breeds is a fundamental choice for all shepherds.	Making informed choices about breed selection and management of specific breeds. Maintaining breed records.	



















1.3.3. Germany

TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER		
	Training needs related	to production techniques			
meat	price is not in relation to the effort	appreciation must increase	direct marketing seminars		
wool	price is too low shearing wage too high	product range must be changed			
managment	knowledge for micro production	seminars for small size husbandry			
,	Training needs derived from the ma	inagement of extensive livestock farms			
animal welfare in small units	compensation for small units at cost	new insights into possibilities	searching for solutions		
breeding	special breeds for special regions	testing breeds for landscape types	scientific consideration makes sense		
Training needs derived from the valorization of production					
association interests	linking different organizations	expanding cooperations	cooperation with science		
finding ecological niches	the demand for organically produced products is increasing	matching producers and consumers in their desires and needs	formulate common goals		





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
	increasing interest and trend		
		application of new technologies	
using new ways in learning systems	renew and use learning methods	use new opportunities	Implement ideas from the past months
simplify the training methods	learning from each other with each other	use of the media	ideas wanted
	Training needs derived fron	n the regulatory framework	
adapting prescriptive opportunities in the niche	find unconventional forms	modular seminars	
Adapting funding opportunities	simplify implementations	simple application training	ideas wanted
	Other training needs derived	from the surveys carried out	





















1.3.4. Portugal

TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER		
	Training needs related to production techniques				
Meat.	Value the meet from sheep and goats, through new products that are in the line with integrated agriculture, production of food of recognized quality, through methods that respect public health and the environment.	How to produce new products from sheep and goat meat (ham, sausages, etc)	Some European funded projects developed a specific training.		
Wool.	The price of the fleece does not cover the shearing costs, but needs to be done for animal welfare. A sustainable local product is under utilised.	Breed selection for wool, management and shearing techniques for best wool products, developing markets (how to access wool processing).	Not detected. No explicit training course on this subject		
Tourism.	Develop touristic opportunities related to shepherds.	How can shepherds diversify their income and benefit from touristic opportunities.	In the School of Shepherds in Alvão there is a class about this.		
	Training needs derived from the m	anagement of extensive livestock farms			
Pasture management.	Balancing sheep nutrition with biodiversity, healthy ecosystems and climate change measures.	Grazing and feeding regimes to reduce reliance on veterinary drugs.	Not detected. No explicit training course on this subject.		
Animal health and welfare.	Keeping healthy sheep with the minimum of veterinary products in a range of habitat is essential to the role. Managing sheep health, lamb	Efficient sanitary management of livestock. Health promotion (maintenance and improvement of health) and prevention	An informal course on animal health and conventional treatments organized by		





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
	mortality effectively reduces vet and veterinary product costs and allows for a more sustainable business model.	(control and eradication of diseases). Sheep health and welfare; lambing, grazing and fodder regimes to reduce reliance on veterinary products, non-surgical procedures, animal management techniques. New emerging diseases. Keeping healthy sheep with the minimum of veterinary products. Possible alternative, non-conventional veterinary treatments.	veterinary universities and agricultural unions has been detected.
Fire control.	Shepherds are accused of starting fires in Portugal. Instead, they should be seen as an environmental provider of fire prevention.	Forest and pasture management in order to prevent wildfires. Use of fire as a tool to support shepherds.	Not detected specified for shepherds.

TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
Coexistence	The Iberian wolf is legally protected but the aid	Sheep dog training.	Not detected specified for
livestock- large	from the administration for wolf's attacks to the	Learn about the different protection	shepherds.
carnivores	livestock is not enough.	methods and experiences in other areas	
(iberian wolf).	Sheep dogs are an effective way to manage and	where large carnivores coexist.	
	protect sheep flocks and to make it more economic		
	to keep sheep. Trained sheep dogs can be very		





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
	expensive to buy but training your own dog is a more affordable option.		
Local Breeds	Local breeds should be promoted and studied, so that a new person could be able to start their business with local breeds.	Making informed choices about local breeds.	Not detected.
	Training needs derived from	m the valorization of production	
Business planning and marketing. Association and cooperativism	Training and advice on entrepreneurship, particularly in relation to marketing and internationalization of products to develop better incomes based on high quality products well. Cooperativism to have a common veterinary assistance and to be more competitive, more easily access state and regional resources and programs, and have a better organization to market products.	Building sustainable and viable business models for different sizes of flock. Agri-food processing and marketing. Self-marketing. Quality marks and seals. Short marketing channels. Formation and management of cooperatives. Legal relations between cooperative members and the cooperative.	In the School of Shepherds in Alvão there is a class about this. Not detected. No explicit training course on this subject.
Certified production.	There is an increasing demand for quality and certified products in Portugal, specially Denomination of Origin (cheese) or Geographical Protected Indication.	Study of practical cases of livestock cooperatives. Economic investment in certification and control.	Not detected.
	Training needs derived from t	he application of new technologies	





















TOPIC	JU:	STIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
Online presence.	Promote the shepherds work online.	Shepherds are very hard to find online, and their business profile is not present on the Internet through a website, social networks, etc.	Ways to create an online presence.	In the School of Shepherds in Alvão there is a class about this.
Online marketing of products.	Potential for direct marketing of products or accessing online selling platforms for products to increase financial sustainability of shepherd enterprises.	Making shepherd enterprises more financially viable.	Electronic commerce of products. Techniques and case studies for setting up direct, online selling platforms. Engaging with 3rd party online selling platforms Social media techniques to promote your enterprise.	Non-sheep specific training in online marketing and social media training through rural enterprise networks.
GIS and remote sensing.	Greater knowledge of the behavior of pastures, resources and livestock, is a competitive advantage for the sector.	There is a need for resource optimization natural grazing through the use of new technologies. The GIS tools will combine both the monitoring of pastures with satellite remote sensing and the	Technological devices for extensive livestock farming based on GIS and remote sensing. Use of equipment based on remote sensing and data collection. Training in the use and processing of data provided by technological devices and the benefits offered by the information	Some research groups are implementing these GIS tools among farmers, but there is no specific training for this topic.





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
	Global Positioning of	collected to plan production strategies and	
	livestock in real-time.	manage farms.	
		Analysis and selection of the best available	
		devices for livestock monitoring.	
	Training needs derived f	rom the regulatory framework	
Bureaucracy and	Sheep identification	Simple methods including online but work	Some informal course organized
legal	numbers, transport	in rural areas with poor internet	by the regional administration
requirements.	paperwork, food hygiene	connections.	and union organizations have
	requirements,		been detected.
	sheep breed records,		
	sanitary controls of the		
	regional administration,		
	food safety, etc.		
Applying for	Identifying and maximising	Clear information on what is available,	Different organizations offer
grants or	potential support for	how to apply for it and how to report on	advice on potential grants but
subsidies.	sustainable shepherding	activities.	clear online advice in a single
	activities, land management		place would be useful.
	and training from grants.		
Recognition of	Official recognition of the	Recognize the non-formal training for	
the profession	"Shepherd" as a profession	shepherds as a pre-requisite for the	
training.	and training by the Ministry	governmental program/subsidies to enter	
	of Education.	the labor market.	
	of Education.	the labor market.	





















1.3.5. Romania

TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER			
	Training needs related to production techniques					
Meat/milk	 Fluctuating prices for the purchase of lambs. Today we have 12-14 lei / kg / live, last year 5-8 lei / kg / live. Lack of slaughterhouses for small animals (sheep, goats). Lack of organization of sheep/goat breeders 	 Relationship with retail and direct sale of meat. Professional training for short marketing / valorization channels that also processed products 	 Rural Entrepreneurship Courses and Qualification Courses for the occupations of Mountain sheepherder, Mountain Sheep Breeder, Mountain sheep keeper - and Mountain sheepman - organized only by AGROM-RO. Informing and popularizing among farmers sheep and goat breeders the measures to prevent the Small Ruminant Fish, organized by the County Agricultural Directorates in the mountain area. Creation of Local Gastronomic Points, family-type touristic food points that offer specific food to the geographical area to which they belong 			
Wool	The price of wool does not cover the costs of trimming (sheep farmers benefited from de minimis aid for the capitalized wool of 2 lei / kg	Supporting the capitalization of the wool by granting subsidies and creating centers for collecting, baling, washing	Before 2007 AGROM-RO organized courses for women where there was also a workshop for felt processing,			





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
	until 2019, according to the GD no. 500/2017 on the approval of the scheme "The minimis aid for the implementation of the support program for sheep farmers for the commercialization of wool"). • Large quantities of wool and skins, obtained annually by farmers in the mountain area and insufficiently collected and valued in finished products with added value, quality, useful, healthy and advantageous. A sustainable local product is thrown away. • Realization in Bistrita Nasaud County of the Center for Research, Innovation, Design and Professional Training "Silvania" in Lunca Ilvei, the first building in Romania made of wood and isolated with sheep's wool, which will soon operate in addition to the modern sawmill "Silvania International", for the benefit of pupils and students who will perform here hours of practice in production, research and study, a center that aims to promote innovative methods, solutions and practices for environmental protection, use and balanced capitalization of resources, with the renunciation of aggressive practices on the part of the human factor towards resources and the environment.	and processing the wool at regional level. Support initiatives to revive the collection, processing and recovery of wool, taking into account that to date this valuable resource has not been used to its full potential. Creation of new efficient and competitive production capacities, products with the highest added value, optimal use of existing resources, increased productivity of work, implementation of community standards.	but now there is no longer this offer for lack of interest in this activity.





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
Habitat management	 Mountain meadows are rich in habitats of species diversity and are a good prerequisite for their use as grazing. 	 Training on rational grazing. Grazing for the prevention of forest fires. Professional training, regarding commitments on Measure 10 – Agroenvironment and climate, within the National Rural Development Program (NRDP 2014-2020). 	 Professional training courses, addressed to beneficiaries who hold commitments on Measure 10 – Agro-environment and climate, within the National Rural Development Program (NRDP 2014-2020) organized by public and private operators. Elaboration of pastoral arrangements on the meadows of territorial administrative units.
	Training needs derived from t	the management of extensive livestock farms	s
Management of meadows and obtaining feed	 Balancing sheep nutrition with biodiversity, healthy ecosystems and climate change measures. In the case of natural grasslands, their characteristics have remained unchanged over time or have undergone small changes under the influence of environmental factors. The change of the use of some lands occupied by meadows in favor of some arable crops (cereals) was achieved due to their favorability in terms of fertility. Large areas of meadows have been grubbed up (plowed), so that today, most of the existing natural meadows occupy land unsuitable for agricultural crops. Some of the meadows have 	 Grazing and feeding regimens to reduce dependence on veterinary drugs. Permanent grasslands may suffer in time the degradation of the vegetal carpet. The result of this degradation results in the short, medium or long term with significant damage. Depending on the state of degradation of the meadow, the financial possibilities of the owners and the local orographic and stationary conditions (precipitation, temperature, etc.), the grassy carpet can be restored. 	 It did not exist for small livestock breeders. It organizes the Universities of Agricultural Sciences and Veterinary Medicine only for students at university courses.





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
	even become sites of Community interest under the Natura 2000 programme and are part of protected areas. In Romania, natural grasslands are represented by the steppe meadows in the south of the country, respectively by the alpine meadows. Their estimated area is about. 200 000 ha. Farmers frequently practice starting grazing too early! Natura 2000 farmland can be eligible for CAP payments under both Pillar I and Pillar II. Eligibility problems had to do with the presence of trees, shrubs and scrubs on pastures, the size of the holding or plot, the land regime, outdated cadastres and difficulties with GAEC standards designated by Member States for more intensive agricultural systems	Establishment, maintenance and use of sown grasslands	
Animal health and welfare	•Keeping healthy sheep with the minimum of veterinary products in a range of habitats is essential for the role. Sheep health management, lamb mortality effectively reduces the costs of veterinary and veterinary products and allows for a more sustainable business model.	 Effective sanitary management of animals. Health promotion (maintaining and improving health) and prevention (disease control and eradication). Health and well-being of sheep; regimens for lamb, grazing and feed to reduce dependence on veterinary products, non- 	Not detected. No explicit training course on this subject.





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
		surgical procedures, animal management	
		techniques. New emerging diseases.	
		Keeping healthy sheep with the minimum	
		of veterinary products. Possible	
		alternative, unconventional veterinary	
		treatments.	
Coexistence of	•In Romania, the last three decades have brought	 To learn more about the different 	Courses on improving knowledge about
animals with	rapid changes in all habitat types, including forest	methods and experiences of protection in	species (populations, distribution,
large carnivores	ones, but no extensive studies have been carried	other areas where large carnivores	ecology and behavior) through verifiable
	out on their impact on wildlife in general and on	coexist.	and transparent methods represent an
	large carnivores in particular. Accelerated socio-	 How can they develop ecotourism 	objective to be assumed by all factors
	economic development unselectively threatens	projects around large carnivores	interested in species management does
	natural habitats, and the danger of habitat loss	 The lack of tolerance poses a threat to 	not exist!
	represents a new negative perspective for the	both large and small populations.	
	long-term conservation of species.	Poaching is a major problem, and in some	
	●The last official report of Romania to the European	cases it has been shown to affect	
	Commission, in 2019, indicates 6,450–7,200 bears,	increases previously recorded in some	
	2,500-3,000 wolves, 2,100–2,400 lynxes, with the	populations. The practiced poaching	
	mention that the figures presented are sums of the	directly affects the fauna populations by	
	populations of the Alpine and Continental	eliminating the specimens from the field	
	bioregions and parts of the large carnivore	non-selectively and by reducing the herds	
	populations are present in both bioregions.	of predatory species for carnivores.	
		 A strategic model to promote coexistence 	
		that must clearly establish the cause of	
		conflicts and reach an effective solution,	





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
		without fuelling political debates by	
		promoting strictly reactive solutions	
	Training needs derive	d from the valorization of production	
Business planning and marketing	Training and advice on entrepreneurship, especially in relation to marketing and internationalization of products to develop better revenues based on high-quality products well.	 Building sustainable and viable business models for different herd sizes. Processing and marketing of agri-food products. Self-marketing. Quality marks and seals. Short marketing channels. 	 There are a lot of opportunities but not for specific sheep training in online marketing, but there is no training action that focuses on extensive animals
Association and cooperation	 Poor association of livestock breeders. The opportunity to have joint veterinary assistance and to be more competitive, to access state and European resources and programmes more easily and to have an economic organisation to market products. 	 Formation and management of cooperatives. Legal relations between the cooperative members and the cooperative. Study of practical cases of livestock cooperatives. 	 No explicit training course on the subject. The AGRICOOP project, financed by EAFRD through National Rural Development Plan 2014-2020, which consisted in promoting advisory services among agricultural producers in order to facilitate their association in agricultural cooperative societies or producer groups according to the national legislation in force, drawing up business plans for their development and concentrating the production of members in order to create new opportunities for economic





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
Mountain and	• The quality scheme PPODLICED IN THE	• A mountain product or an	development by attracting local advantages, zonal or regional and the use of collective power to increase the prosperity of their members, their families and their communities The MOUNTAIN PRODUCT certification
ecological product	 The quality scheme PRODUCED IN THE MOUNTAINS was created at European level to send a strong message to buyers about the added value of food products obtained in the difficult conditions of the mountainous areas. The optional quality term 'mountain product' is recognised throughout the European Union and helps manufacturers to better promote their products in a very dynamic European market. Mountain products are promoted in the digital environment by the National Agency of the Mountain Area and by other public institutions. 	 A mountain product or an environmentally friendly product will be regarded by buyers as a high-quality product with a certified origin, obtained from an area with a low degree of pollution. Preserving the authenticity of agricultural products intended for human consumption and to bring added value to products. The label "mountain product" certifies the mountain origin of the raw materials, the product and the processing area to protect the local gastronomic heritage of the mountain areas and in order to be able to access non-reimbursable funds for the promotion and marketing of agricultural products. 	is carried out by the National Agency of the Mountain Area through the staff of the Mountain Development Offices. Informal and certified courses are organized by ecological certification control entities, private and public trainers.

















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
	Training monds devived for	om the application of new technologies	
	-	on the application of new technologies	
Online training	Knowledge transfer to and from remote rural	Use online tools to access training and	Not detected
	areas.	also provide training to others as part of	
		the business model.	
	Training needs deriv	ved from the regulatory framework	
Legal requirements	 Sheep identification numbers, transport documents, food hygiene requirements, records of sheep breeds, health checks of the regional administration, food safety, etc. Facilitating access to finance for investments in the mountain area for producers and livestock breeders in the mountain area Balanced population density in the mountainous zone; Creation and preservation of jobs; Creating and protecting the access infrastructure; Developing policies and regulations to encourage activities specific to the mountain area, with incidence on the 27 counties. 	 Simple methods, including online, that work in rural areas with poor internet connections. Implementation of the Program for encouraging activities in the mountain area 	No trainings are organized. The program for the mountain area does not apply.



















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1.3.6. Spain

TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
	Training needs related to p	production techniques	
Meat.	Problems of access to abattoirs in rural areas.	Relationship with butchers and selling meat directly. Training in short marketing channels.	Not detected. No explicit training course on this subject.
Wool.	The price of the fleece does not cover the shearing costs, but needs to be done for animal welfare. A sustainable local product is under utilised.	Breed selection for wool, management and shearing techniques for best wool products, developing markets (how to access wool processing).	Not detected. No explicit training course on this subject
Habitat management.	Mountain pastures make up one of the most threatened environments in Spain, mainly due to the abandonment of their use as a grazing area.	Conservation grazing training. Grazing for the prevention of forest fires.	Not detected. No explicit training course on this subject.
	Training needs derived from the manag	gement of extensive livestock farms	
Pasture and fodder management.	Balancing sheep nutrition with biodiversity, healthy ecosystems and climate change measures.	Grazing and feeding regimes to reduce reliance on veterinary drugs.	Not detected. No explicit training course on this subject.
Inputs.	Efficient use of inputs.	Saving or efficient management of inputs. Legal regulations.	Some informal course organized by the organic certification control





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
		Inputs allowed in organic production.	entities and veterinary product companies.
Animal health and welfare.	Keeping healthy sheep with the minimum of veterinary products in a range of habitat is essential to the role. Managing sheep health, lamb mortality effectively reduces vet and veterinary product costs and allows for a more sustainable business model.	Efficient sanitary management of livestock. Health promotion (maintenance and improvement of health) and prevention (control and eradication of diseases). Sheep health and welfare; lambing, grazing and fodder regimes to reduce reliance on veterinary products, non-surgical procedures, animal management techniques. New emerging diseases. Keeping healthy sheep with the minimum of veterinary products. Possible alternative, non-conventional veterinary treatments.	An informal course on animal health and conventional treatments organized by veterinary universities and agricultural unions has been detected.
Coexistence livestock- large carnivores.	The protection of large carnivores such as the wolf is increasingly high in Spain and the aid from the administration for the farmers is not enough.	Sheep dog training. Learn about the different protection methods and experiences in other areas where large carnivores coexist. How to develop ecotourism projects around the large carnivores.	There are some conferences organized mainly by environmental organizations.





















тог	PIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
		Sheep dogs are an effective way to manage and protect sheep flocks and to make it more economic to keep sheep. Trained sheep dogs can be very expensive to buy but training your own dog is a more affordable option.		
Breed selection.		Breed selection for specific habitats, specific products (meat, milk, wool, grazing habit) or to conserve the genetic stock of rare breeds is a fundamental choice for all shepherds.	Making informed choices about breed selection and management of specific breeds. Maintaining breed records.	Sessions and talks organized by the sheep associations for specific breeds have been detected.
		Training needs derived from the	valorization of production	
Business planning and marketing.		Training and advice on entrepreneurship, particularly in relation to marketing and internationalization of products to develop better incomes based on high quality products well.	Building sustainable and viable business models for different sizes of flock. Agri-food processing and marketing. Self-marketing. Quality marks and seals. Short marketing channels.	There are lots of opportunity for non- sheep specific training in online marketing but there is no training action that focuses on extensive livestock.
Association and cooperativism.		Cooperativism to have a common veterinary assistance and to be more	Formation and management of cooperatives.	Not detected. No explicit training course on this subject.





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
	competitive, more easily access state and regional resources and programs, and have a better organization to market products.	Legal relations between cooperative members and the cooperative. Study of practical cases of livestock cooperatives.	
Organic production.	There is an increasing demand for quality and organic products by Spanish consumers. The presence of short marketing circuits or consumer groups that are committed to buying directly from the producer is becoming more frequent. This could be an opportunity for quality products such as transhumant lamb.	Documentation requirements in the organic production for certification and control. Inputs allowed in organic production. Possible alternative, nonconventional veterinary treatments. How to certified grazing areas as organic. Possible contamination of the environment and organic plots due to imperfect applications of phytosanitary treatments in nearby plots. Tools for the evaluation at the business level of the capacities and abilities for the commercialization of ecological or artisan products by small-scale producers.	Some informal course organized by the organic certification control entities have been detected.





















1	ГОРІС	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
		Training needs derived from the ap	oplication of new technologies	
Online training.	Knowledge transfer into and out of remote rural areas.	Using online tools to access training and also potentially to provide training for others as part of the business model.	Ways to find relevant advice and training online.	Not detected. No explicit training course on this subject.
Online marketing of products.	Potential for direct marketing of products or accessing online selling platforms for products to increase financial sustainability of shepherd enterprises.	Making shepherd enterprises more financially viable.	Electronic commerce of products. Techniques and case studies for setting up direct, online selling platforms. Engaging with 3rd party online selling platforms Social media techniques to promote your enterprise.	There are lots of opportunity for non- sheep specific training in online marketing and social media training through rural enterprise networks.
GIS and remote sensing.	Greater knowledge of the behavior of pastures, resources and livestock, is a competitive advantage for the sector.	There is a need for resource optimization natural grazing through the use of new technologies. The GIS tools will combine both the monitoring of pastures with satellite remote sensing and the Global Positioning of livestock in real-time.	Technological devices for extensive livestock farming based on GIS and remote sensing. Use of equipment based on remote sensing and data collection. Training in the use and processing of data provided by technological devices and the benefits offered by	Some research groups are implementing these GIS tools among farmers, but there is no specific training for this topic.





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
		the information collected to plan production strategies and manage farms. Analysis and selection of the best available devices for livestock monitoring.	
	Training needs derived from t	he regulatory framework	
Legal requirements.	Sheep identification numbers, transport paperwork, food hygiene requirements, sheep breed records, sanitary controls of the regional administration, food safety, etc.	Simple methods including online but work in rural areas with poor internet connections.	Some informal course organized by the regional administration and union organizations have been detected.
Applying for grants or subsidies.	Identifying and maximising potential support for sustainable shepherding activities, land management and training from grants.	Clear information on what is available, how to apply for it and how to report on activities.	Different organisations offer advice on potential grants but clear online advice in a single place would be useful.
Professional figures	Creation of more professional figures with official recognition of the "Shepherd" as a profession by the National Ministry.	Collective labor agreement. (Correct salary, social security, etc.) Recognize the non-formal training for shepherds as a pre-requisite for	























	TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
		Improve work conditions especially	the governmental program/subsidies	
		in the mountain areas (housing,	to enter the labor market.	
		digitalization, comfort, security).		
		Other training needs derived fr	om the surveys carried out	
Women and	Women have a	Encouraging and promoting women's	Know the results and experiences of	Informal courses organized by rural
gender.	growing role in rural	protagonism in decision-making in	rural companies and agricultural	women's associations have been
	areas.	the rural decision-making in rural	industries that they have obtained	detected.
	Rural women, with equal opportunities	areas, so that they can achieve the representation that they are	the distinctive "equality in the Company".	
	as men, achieve	equitably entitled to.	Know the existing tax incentives for	
	immediate social and	In the economy, training must be	women owners of farms	
	economic	provided so that women adopt a	livestock.	
	improvements.	different, more active and visible	Training in prevention	
	improvements.	role, and that they become aware of	of gender-based violence in rural	
		their importance in agricultural and	areas.	
		livestock operations. Through	To get to know the associative	
		training and information, but	movement and women's	
		through empowerment and self-	organisations in the field of primary	
		assumption of her capabilities and	production in order to promote	
		their deployment.	equality or to combat sexist	
		. ,	stereotypes, values or attitudes.	
			Healthy upbringing, family education	
			and positive parenting	
			in rural areas.	





















ТОРІС	:	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
Entrepreneurship in rural areas.	popu gene the S Train rural	depopulation, the aging of the ulation and the lack of erational renewal seriously affect Spanish rural environment. hing to establish population in I areas, generate wealth and te true rural development	Resource search: knowing lines of financing and microfinance for the implementation progress and consolidation of business activities. Notions about rural tourism, agrotourism and tourism of	Informal courses organized by agrarian unions and shuttles of rural enterprises of the state administration have been detected, but there is no training action that focuses on entrepreneurship in extensive livestock.
	depo oppo gene the p	sed on its inhabitants, limiting opulation and promoting equal ortunities in the territory and the erational renewal. that exists in primary sectors of agriculture livestock.	experience linked to the economic activities of the territory such as agriculture, the forestry sector, livestock, water, parks and nature. Livestock diversification. Learn about different self-employment initiatives, rural startup, etc.	























1.3.7. UK

TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
	Training needs related to pro	oduction techniques	
Meat	Main marketed product & main income for shepherds - there are some problems with access to abattoirs in rural areas	Different models (selling sheep at market & others do the meat processing) or direct relationship with butchers & selling meat directly - the benefits & costs & best practice of different models	Covered by most formal & informal courses to some degree
Wool	Wool is a major problem for many shepherds. THe price of the fleece does not cover the shearing costs, but needs to be done for animal welfare. A sustainable local product is under utilised	Breed selection for wool, management & shearing techniques for best wool products, developing markets (& how to access wool processing)	Techniques for shearing & some wool processing courses
Milk/cheese	A small market currently but could be part of a shepaherd income model	Knowledge of potential for sustainable livelihood & sheep dairy techniques	Sheep Dairy Association offer training & advice
Habitat Management & Biodiversity Conservation	Scottish Wildlife Trust employ a conservation shepherd to manage wildlife rich areas. Conservation organisations are major land owners in Scotland & there could be potential for more of this type of shepherding if it fits with a sustainable business model	Management of healthy biodiverse ecosystems which also support sustainable sheep products & livelihoods; could apply to crofters, small holders, conservation landowners, community orchards as well as larger sheep enterprises	COnservation grazing courses by RBST GAP project MOB Grazing & Pasture Fed Forums (Peer to peer farmer support)
	Training needs derived from the manager	ment of extensive livestock farms	



















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
Pasture & Fodder Management	Balancing sheep nutrition with biodiversity, healthy ecosystems & climate change measures	Management of grasslands, heath land & agroforestry Regenerative & mob grazing Agroforestry grazing systems Grazing & feeding regimes to reduce reliance on veterinary drugs, wormers etc	Different courses and organisations offer different types of training/advice on this, as well as peer to peer farmer/shepherd knowledge sharing on forums
Animal Health & Welfare & Flock Management	Keeping healthy sheep with the minimum of veterinary products in a range of habitat is essential to the role. Managing sheep health, lamb mortality effectively reduces vet and veterinary product costs and allows for a more sustainable business model. Flock health management techniques	Sheep health & welfare; lambing, grazing & fodder regimes to reduce reliance on veterinary products, non-surgical procedures, animal management techniques	Sheep health & welfare and lambing techniques are covered in most training courses. The area were there is less information and training is on grazing and feeding regimes for sheep health which reduce reliance on veterinary products.
Sheep Dogs	Sheep dogs are an effective way to manage sheep flocks and to make it more economic to keep sheep. Trained sheep dogs can be very expensive to buy but	Sheep dog training (often Border Collie breed)	Sheep dog training is available through a number of providers from short courses to longer training programmes. There is at least one virtual sheep dog





















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
	training your own dog is a more affordable option.		training provider. Sheep dog training courses were very popular in the most recent Women in Agriculture training fund in Scotland
Breed Selection	Breed selection for specific habitats, specific products (meat, milk, wool, grazing habit) or to conserve the genetic stock of rare breeds is a fundamental choice for all shepherds. Flock management as part of overall animal health and animal management	Making informed choices about breed selection and management of specific breeds. Maintaining breed records Cross-breeding different sheep breeds for specific qualities	Sheep Associations for specific breeds (e.g. Black Face Association), Rare Breeds Survival Trust
Adapting to a changing climate	The changing climate will bring new extreme weather events and the movement of insects, sheep pests. Shepherds need to understand technique for mitigating against extremes of sun, wind, rain etc and how to recognise and deal with new sheep pest control.	Planting & land management for shade, wind protection, flooding and drought. Pest recognition & techniques for coping with new insect pests	No explicit training course on this subject





















TOPIC		JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER		
Health & Safety for Shepherds		Shepherds often work alone in remote rural areas, sometimes with bad telephone connections, sometimes using quads, vehicles and lifting heavy feed or equipment	Lone working safety techniques Equipment & vehicle health and safety techniques	These are covered in many courses and there are some specific courses on different elements		
			Personal health and avoidance of work based accidents			
	Training needs derived from the valorization of production					
Business Planning & Marketing		Shepherding is often a low income profession, there is a need to support and assist shepherds to develop better incomes based on high quality products well	Building sustainable & viable business models for different sizes of flock, full-time & part-time shepherds	Specialist for Sheep (e.g. FAS, SOILAss, Sheep Dairy Asso) & Non-Specialist for sheep (Growbiz, Business Gateway, First Port)		
	Training needs derived from the application of new technologies					
Online Records	Keeping records easily	Simplifying the time needed to maintain records	Finding simple ways to keep online records in areas with bad internet reception			
Online Training	Knowledge transfer into and out of	Using online tools to access training and also potentially to provide training for others as part of the business model	Ways to find relevant advice & training online			





















TOPIC		JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER	
Online Marketing of Products	remote rural areas Potential for direct marketing of products or accessing online selling platforms for products to increase financial sustainability of shepherd enterprises	Making shepherd enterprises more financially viable	Potential for setting up own partial or fully online training services Techniques & case studies for setting up direct, online selling platforms Engaging with 3 rd party online selling platforms Social Media techniques to promote your enterprise	There are lots of opportunity for non-sheep specific training in online marketing and social media training through rural enterprise networks and government programmes.	
	Training needs derived from the regulatory framework				
Sheep Records & Legal Requirements		Sheep Identification Numbers, Transport paperwork, Food Hygene requirements, Sheep breed records	Simple methods including online but work in rural areas with poor internet connections	Most courses cover the basic legal requirements. Best practice examples and case studies in online record keeping would be useful	



















TOPIC	JUSTIFICATION	KNOWLEDGE DEMANDED BY TRAINEES	EXISTING TRAINING OFFER
Applying for grants or farm subsidies	Identifying & maximising potential support for sustainable shepherding activities, land management & training from grants	Clear information on what is available, how to apply for it and how to report on activities	Different organisations offer advice on potential grants but clear online advice in a single place would be useful
Calculating carbon emissions & biodiversity audits	Demonstrating/calculating effect of activities on carbon emissions & biodiversity. Simple ways to calculate and show this could be useful for reporting on grants & encouraging governments to support more sustainable shepherding, informing customers about the multiple benefits of buying these products.	How to calculate (simply) carbon and biodiversity effects of activities & demonstrate simply to others	There are some tools for calculating figures on this, (e.g. FAS land management tool) but very simple ways for individual shepherds to calculate benefits and show clearly and easily to others would be good.
	Other training needs derived from	n the surveys carried out	
Training paths/modules for different groups	Making it easier for existing shepherds to access the best information about changing to more sustainable shepherding or for new entrants to see the range of possible business models, breed and product types, and training available.	Information for existing shepherds wanting to change to more sustainable models or develop local product markets Information for new entrants to the profession targeted to different groups (mature new entrants, school leavers, parttime and full-time shepherds)	There are a range of training offers and support networks but they are in a range of places and it can be difficult to find the most relevant information.







































