



Innovations to support the viability of Sheep & Goat sector in Europe

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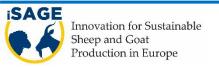
WP 4 LEADER





Task 4.2 Testing selected innovative strategies on case study farms

- Task 4.2 Leader: Agrifood Research and Technology Centre of Aragón - CITA (Spain)
- Duration: 6-44 month of the project
- 21 partners involved





Objectives

- Design and test innovative management practices on casestudy farms
- Understand the impact of these practices on farm level →
 Sustainability of the Sheep & Goat farming
- Drivers and constraints





Innovations?

It is not just technology, but...

"The implementation of a new or significantly improved product (good or service), or process, a new marketing method, or a new organizational method in business practices, workplace organization or external relations which can be new to the firm, new to the market and new to the world"

(OECD)

Innovation depends on the system/situation analyzed





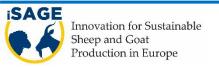
Methodological Approach

- Identify <u>challenges</u> of S & G sector ~ Task 4.1
- Case study <u>proposals</u>
- Review of case studies by iSAGE expert groups
- Implementation and monitoring
- Reporting and dissemination of outcomes





- √ 31 case studies
- ✓ Selection depended on:
 - Resources available
 - Organizational constraints
 - Main interest and expertise
 - Challenges considered critical for each case





Summary of case studies

8 "BROAD" innovation types	No of case studies
Breeding and genetics	6
Feeding	3
IT & individual recording technologies	6
Environment	4
Products and marketing	3
Reproduction	4
Training	2
Other	3
Total	31





Impact

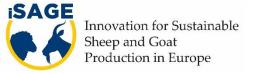
- On the sustainability of the sector through the promotion of solutions at farm and industry level
- On the innovative capacity of the sector as it provides farmers, industry and policy makers with best practice guidelines on how innovation should be implemented and under which conditions impact can be maximized
- In this respect, this task valorised the iSAGE networks and tested innovative practices in order to enhance the competitiveness of different systems and to promote a balanced development of economically diversified EU regions





Innovation case studies sessions

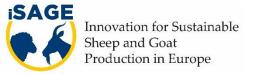
Day 2, Tuesd	lay 14th January 2020 – iSAGE TRAINING COURSE
9:00 – 10:30	Innovations to support the viability of sheep and goat industries in Europe. Practical
	examples, methods and recommendations for their adoption. (WP4)
	Introduction. Method for innovation development and testing.
	Speaker: Alexandros Theodoridis (AUTH, Greece)
	Presentations of innovations and discussion
	- Effect of an alternative rearing method on milk production and lamb weight gain. Sofia Termatzidou
	(ACOP, Greece)
	- Small ruminant farmers' perception on climate change impact and assessment of adaptation
	innovations. Nazan Koluman (RRAP, Turkey)
	- Innovation in reproduction: new specullum for artificial insemination. Fernando Freire Fernández
	(Assaf.E, Spain)
10:30 - 11:00	Coffee break





Innovation case studies sessions

10:30 - 11:00	Coffee break
11:00 - 12:30	Participatory research and case studies in farms to test and adapt innovations
	Methodology and examples (T4.2) (Cont.)
	Presentations of innovations and discussion
	- Training and implementation of farm management application (AWIN). Mata Trivizaki (AUTH, Greece)
	- Disruptive innovation in sheep breeding for ensuring complete traceability of lambs. Ebru Emsen
	(ATAUNI, TR)
	- Assessment of the Young Ambassador programme. Stefano Orsini (ORC, UK)
	- Potential and limitations of genomic selection in small ruminants. Clara Diaz Martin (INIA, Spain)
12:30 - 13:30	Lunch

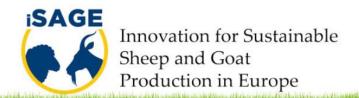




Innovation case studies iSAGE

ISAGE Workshop

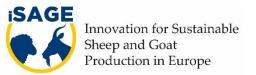
13-14 January 2020, Thessaloniki





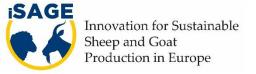
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Туре	Innovation case study	Country	
	1) Evaluation of reproductive performance of crossbreeds of Romanov and Turkish Native Breed	Turkey	
netics	2) Potential, drivers and constraints of genomic selection in sheep and goat sector	Spain, France and Greece	
Breeding & genetics	3) Analysis of farmers perception of the drivers and constrains for the uptake of a new selection index for ewe productivity	Finland	
eeding	4) Assessing parasitic resistance of UK local and newly introduced sheep breeds in organic/low input and conventional farms.	United Kingdom	
Bre	5) Assessment of ROA GENE effect on Rasa Aragonesa breed productivity	Spain	
	6) A new longevity breeding goal for Lleyn sheep	United Kingdom	
gu	7) Better utilisation of farm forage– reduce reliance on imported concentrates and forages on the farm	France	
Feeding	8) Assessment of feeding alternatives in sheep and goat farms in Turkey	Turkey	
Fe	9) Grazing in arable rotations	United Kingdom	



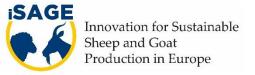


Type	e Innovation case study			
	10) Extension activities for individual recording	Greece		
	11) Mobile flock management of intensive sheep farm	Turkey		
nd ing	12) Reproductive performance recording in intensive dairy goat farming	Turkey		
IT technologies and individual recording	13) Assessment of Eskardillo: a platform based on individual data collection to improve decision making and management in dairy goat farms.	Spain		
chn idu	14) Individual data collected from RFID for several purposes	France		
IT tec indiv	15) Training and implementation of farm management application (AWIN)	Greece		
± t	16) Ecological knowledge transfer and sharing expertise from Transhumance	Turkey		
Environment	17) Carbon efficiency and footprint comparison for various farming systems	Turkey		
Envir	18) Small ruminant farmers' perception on climate change impact and assessment of adaptation innovations	Turkey		
	19) Holistic Management and Farm Sustainability Assessment Tools	United Kingdom		





Products and marketing	20) Participatory Guarantee System for Brogna sheep Association in	Italy
	Lessinia	
	21) Functional food production from goat milk and lamb meat	Turkey
Proc and mar	22) Marketing innovations for transhumance dairy products	Greece
	23) Testing of a new sheep and goat AI speculum	Spain, France
	25) Testing of a new sneep and goat AI speculum	and Greece
	24) Controlling reproduction in sheep and goats and developing	
on	easycare breeds	
Reproduction	25) Testing assisted reproduction tecnologies in dairy goats and maternal	Turkey
odı	sheep	-
epr	26) Drivers and farmers perception on hormonal control uptake in	Turkey
ž	extensive farms in Turkey	-
Farmer training	27) Assesment of Ambassador programme	United Kingdom
	28) Assessment of Flock Health Programme	United Kingdom
S	29) Controlled weaning in organic goat rearing	Italy and Greece
Others	30) Managing Haemonchus burden in lambs using a copper oxide bolus	United Kingdom
Ō	31) Portable milking machine in different farming systems	Turkey





Challenges addressed by innovation case studies in each participating country

		Challenge	Finland	France	Greece	Italy	Spain	Turkey	UK
40	FARM	Lack of profesionalization	X	X	X	X	X	X	X
WEAKNESSES		Slow adoption technology and innovations	X	X	X	X	X	X	X
		Poor business management training			Х		Х		
- WE	SECTOR LEVEL	No attractive for young farmers							Х
INTERNAL	Relative to some farming systems	Low adaptation of high productive breeds to some enviornments	X				X		X
Z		Breeding programs of adapted/local breeds not welldeveloped in some areas	X				Х		Х
10	SOCIETY	Societal awareness of farmers role			X				
EATS		Low consumers demand			X				
EXTERNAL THREATS		Lack of society knowledge on sheep and goats farming			X				
EXTERN		Recognition and valuation of public services of livestock farming			X				
	ENVIRONMENT	Climate change threats						X	



