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Improving consumer perception and consumption of sheep and goat products

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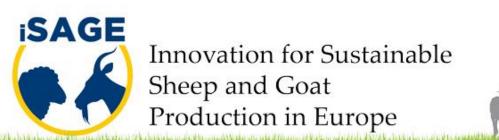


Innovation for Sustainable Sheep and Goat Production in Europe



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PART 1 Results of consumer and retailer studies





Methods: a mix of qualitative & quantitative research

	Qualitative Research	Quantitative Research
Objective	To gain a deeper understanding, contextualize a phenomenon, the why and how of things	To quantify the data and generalize the results from the sample to the population
Process	Inductive, subjective, recurrent	Deductive, objective, sequential
Sample	Small number of <u>non-</u> <u>representative</u> cases	Large number of <u>representative</u> cases
Data Analysis	Non-statistical	Statistical
Outcome	Develop an initial understanding, theory development	Recommend a course of action
Examples	In-depth interviews, focus groups case studies	Surveys, Experiments



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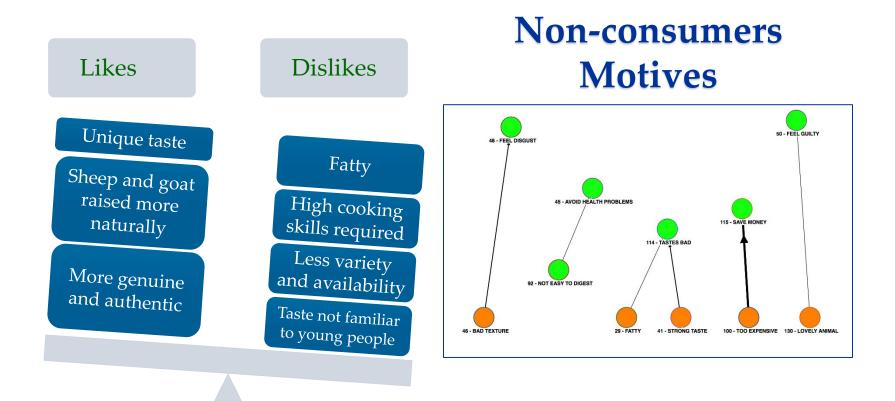


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Results summary- MEAT



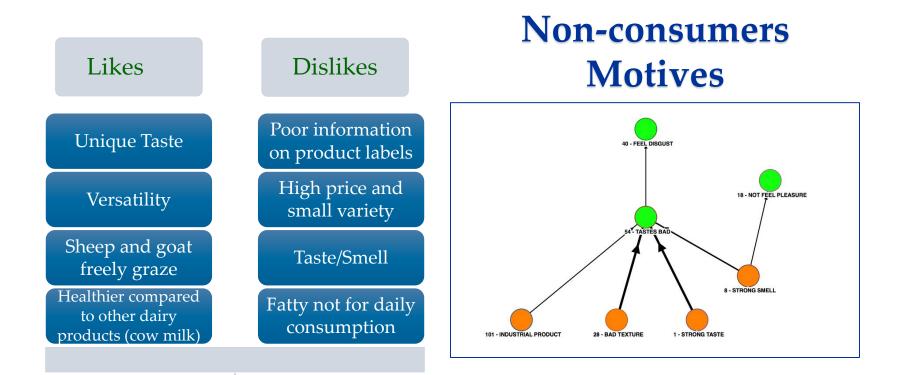


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Results summary - Dairy











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Results on sheep and goat meat



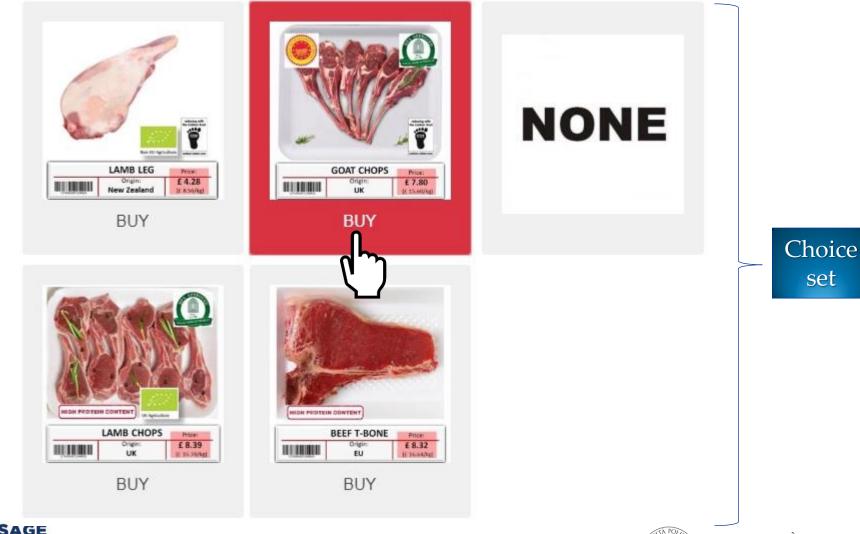


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Choice experiment for meat





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Choice experiment for meat

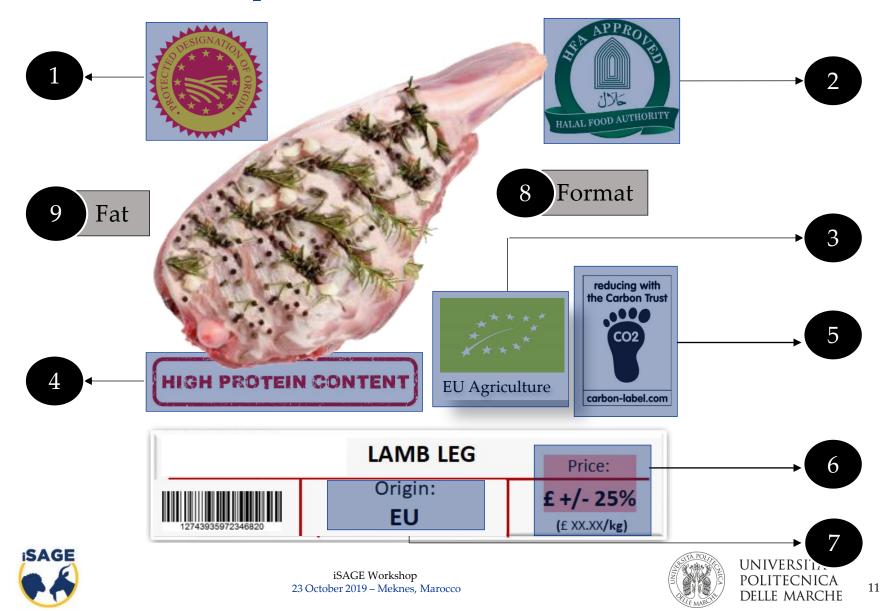




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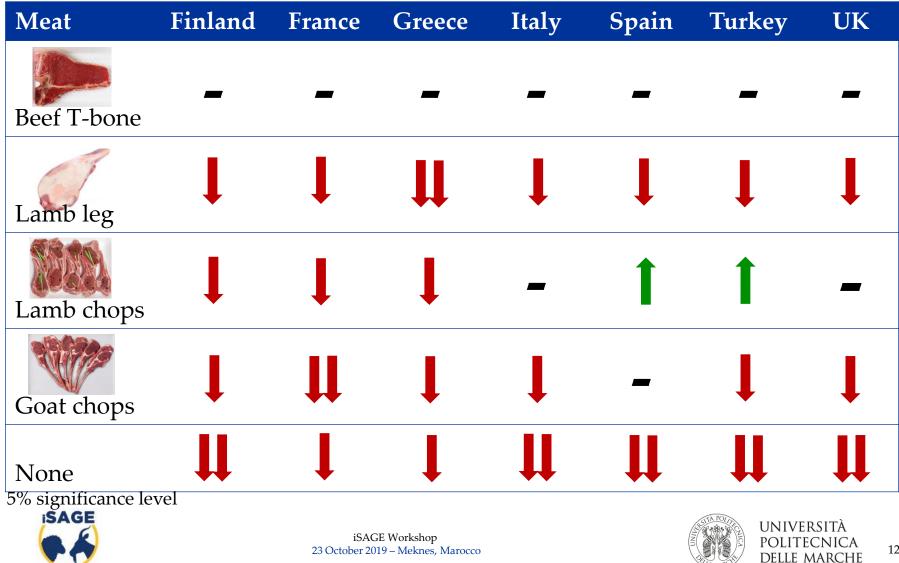


Choice experiment attributes



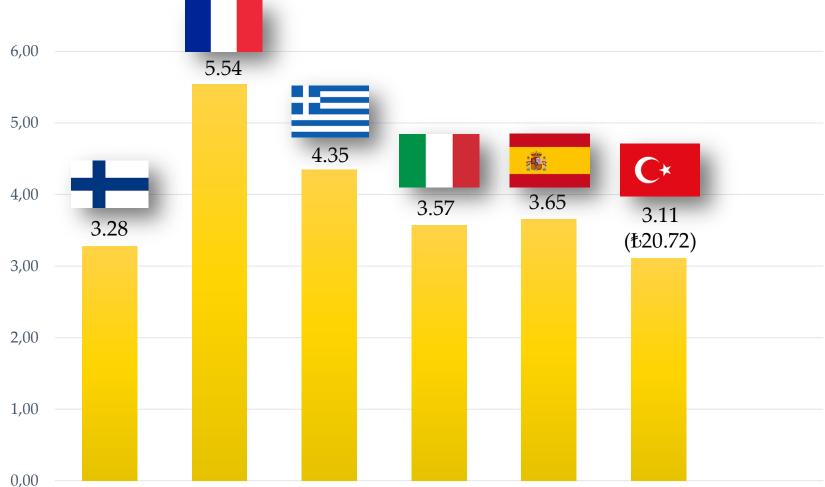
Results: meat cuts and type

*Beef is the reference category



WTP Halal C* 2.74 3,00 (<u>₹18.24</u>) 2,50 2,00 1,50 1,00 0,50 0,00 -0,50 -0,58 -0.65 -1,00 (-£0.58) -1,50 -1,47 -1,79 -2,00 -2,50 **iSAGE** UNIVERSITÀ iSAGE Workshop POLITECNICA 23 October 2019 – Meknes, Marocco DELLE MARCHE

WTP National origin



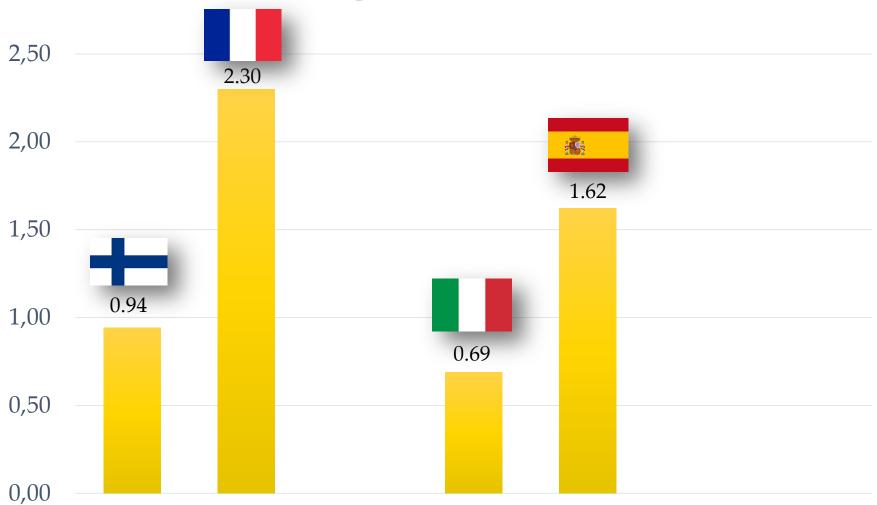


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WTP EU origin



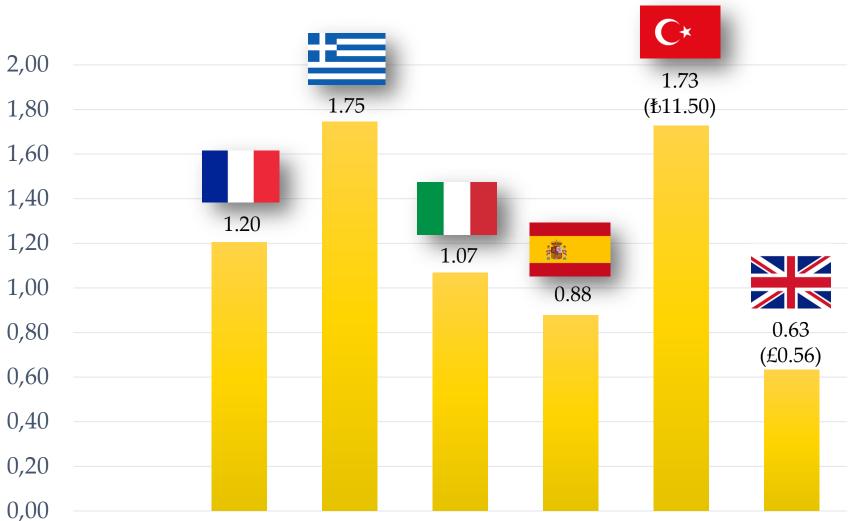


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WTP PGI/PDO





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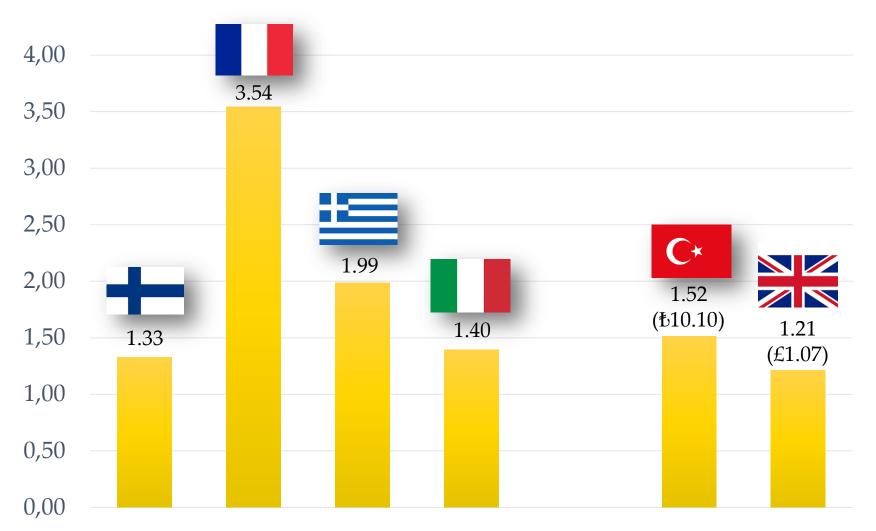
WTP Carbon label 1,20 (**17.05**) 1,00 0.88 0,80 0.70 0,60 0.54 0,40 0,20 0,00 **iSAGE** UNIVERSITÀ iSAGE Workshop POLITECNICA

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WTP Organic label





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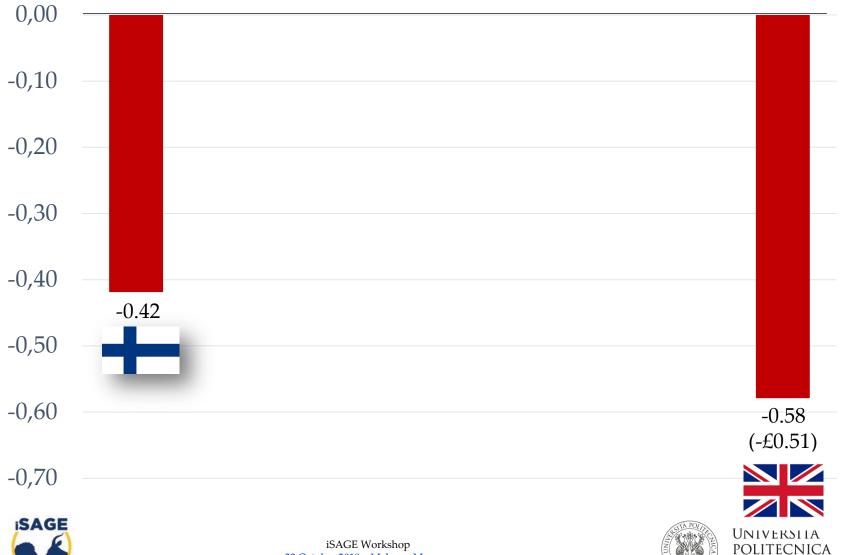
WTP Less fatty

0,50	0.46	
0,45		
0,40		
0,35		
0,30		
0,25		
0,20		
0,15		
0,10		
0,05		
0,05 0,00		





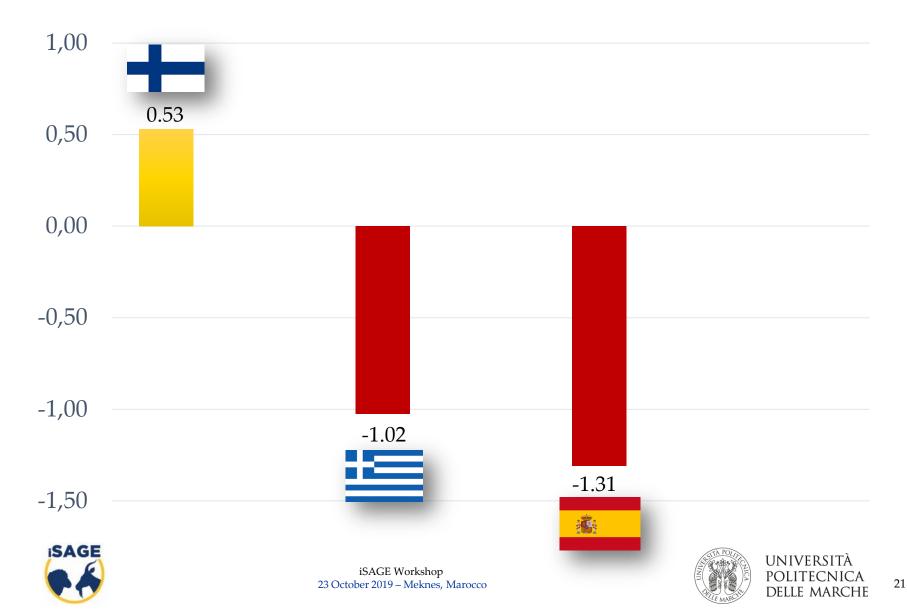
WTP High protein content





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WTP Ready to cook



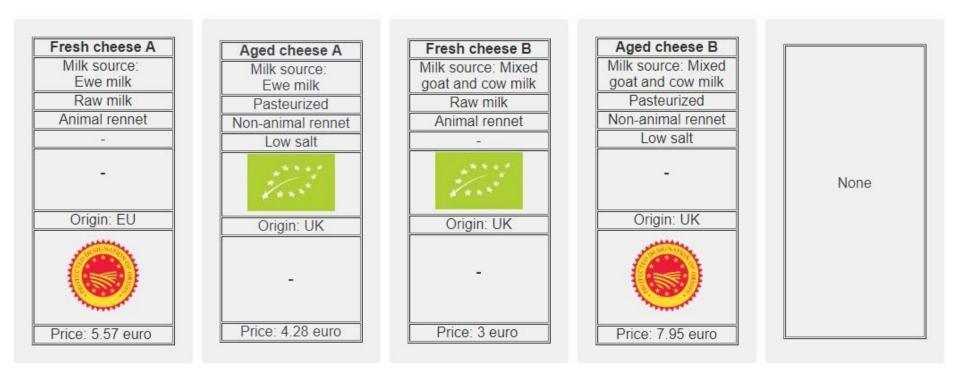
Let's continue with ewe and goat cheese!



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Choice experiment for cheese







Preliminary results: cheese type

*None is the reference category

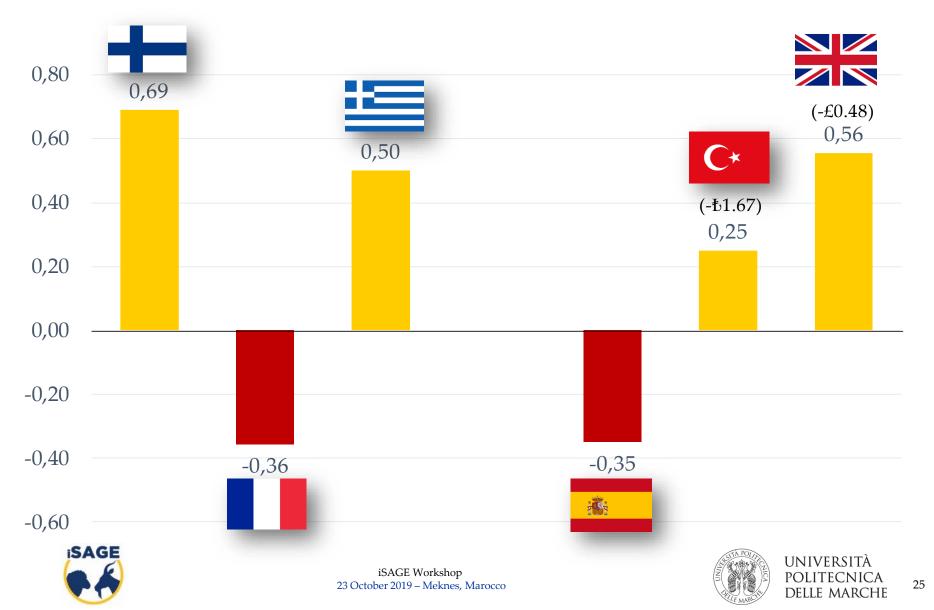
Meat	Finland	France	Greece	Italy	Spain	Turkey	UK
None	-	-	-	-	-	-	-
Aged cheese	11		1	1			1
Fresh cheese	1	1	11	1	1	1	1



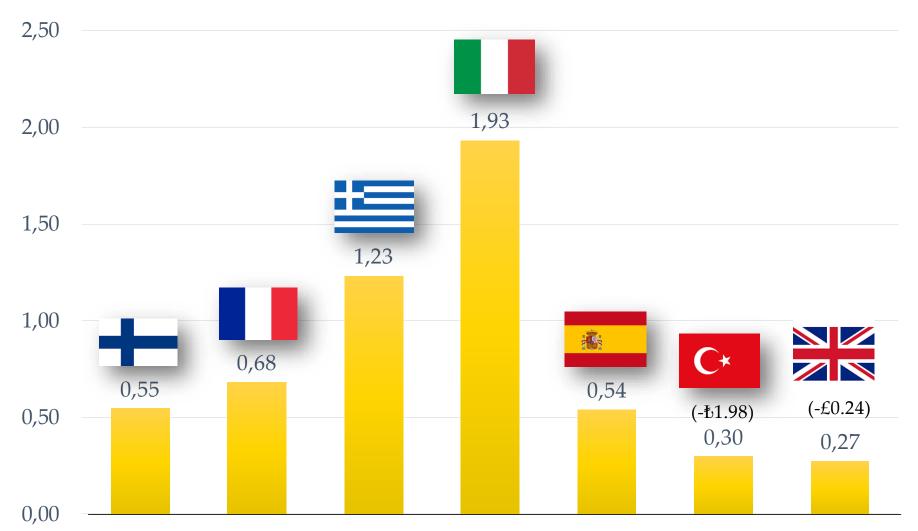
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WTP Cow milk



WTP National origin



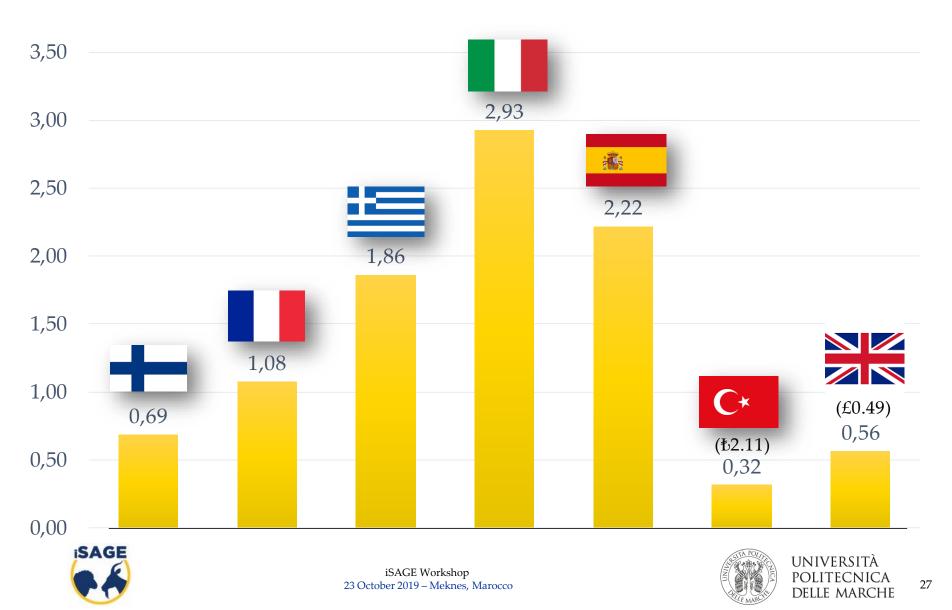


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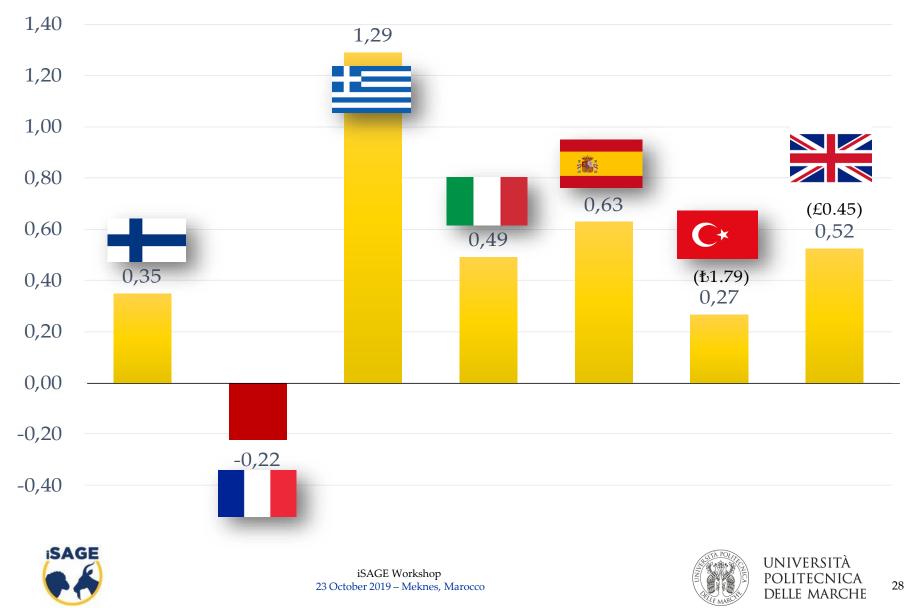


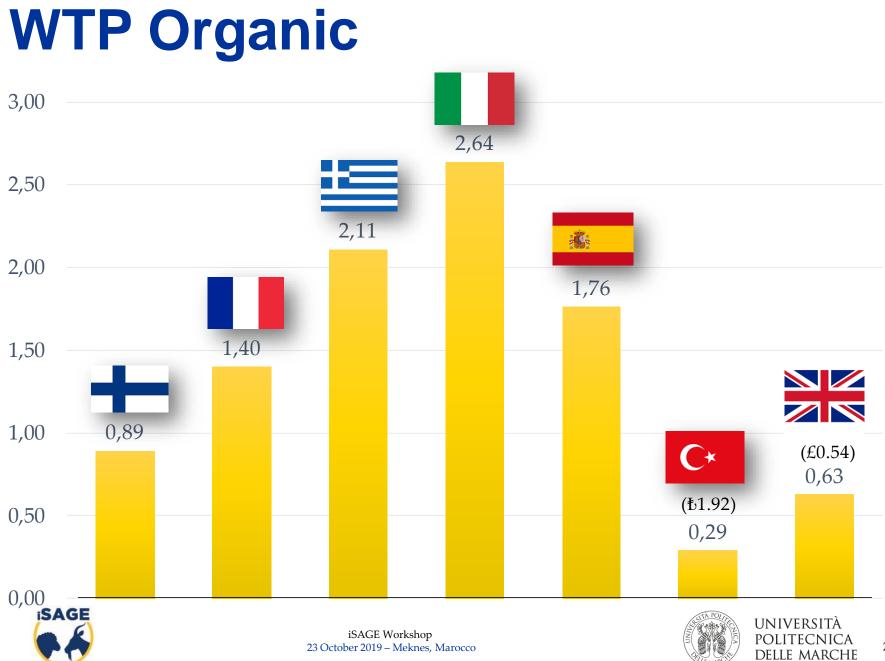
UNIVERSITÀ Politecnica delle marche

WTP PDO

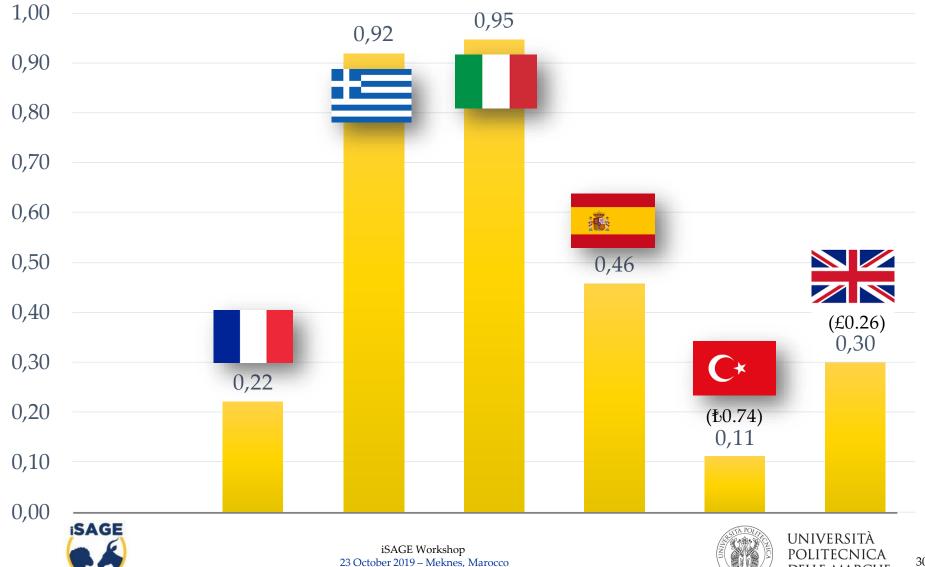


WTP Pasteurization



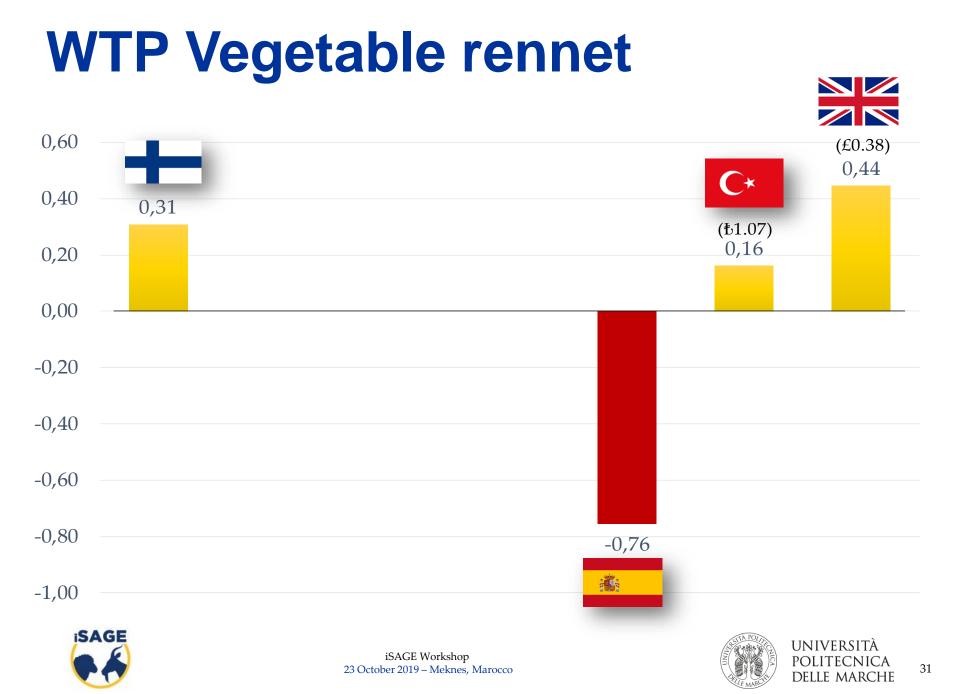


WTP Low salt



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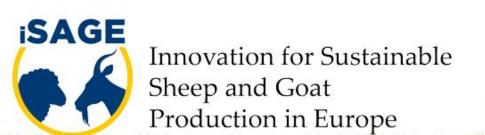
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Method: semi-structured qualitative interviews with retailers

	Meat products			Dairy products		Total
	(SMKT)	(BTCH- RUR)	(BTCH- URB)	(SMKT)	(INDP- RETAIL)	interviews
FI	1	1	1	1	1	5
FR	1	1	1	1	1	5
GR	2	1	2	2	1	8
IT	2	1	1	1	3	8
ES	1	1	1	1	3	7
TR	1	1	1	1	1	5
UK	2	1	1	1	1	6
Total	10	7	8	7	11	44

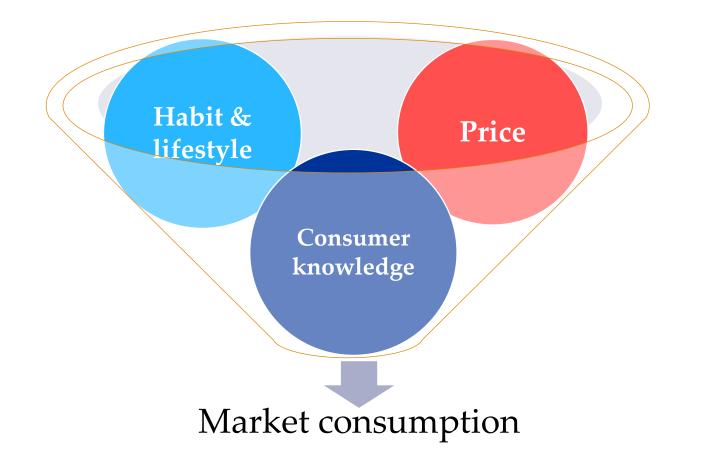


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Barriers to higher penetration to the market for sheep & goat meat









Expectations and innovation opportunities for sheep & goat meat

Most retailers interviewed are pessimistic about future sales but some do envisage opportunities:

Scope for provenance labelling and assurance schemes:



- Focusing on quick-to-cook cuts, and cheaper cuts e.g. adjoining cuts
- 'Tell the whole story' to improve consumer knowledge e.g. two successful examples of increased consumption of mutton and goat meat in two butchers in IT and UK

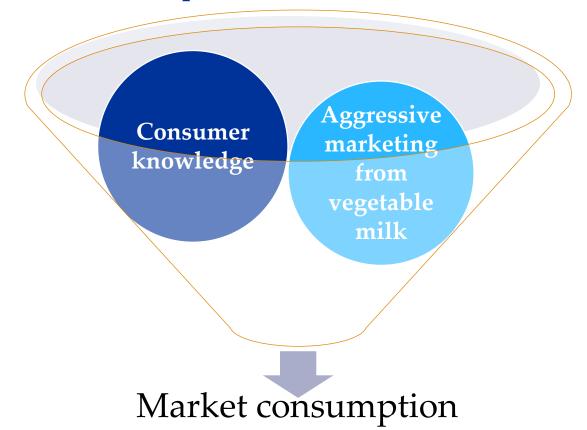




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Barriers to higher penetration to the market for sheep & goat dairy products



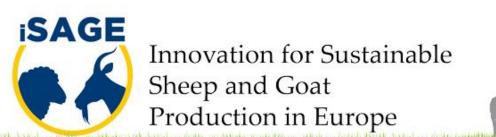






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PART 2 Identified best practices across the chain: iSAGE recommendations





Survey of multi-actor current best practices in the supply chain

The objectives were to:

- 1. Investigate **innovative approaches** in the sheep and goat supply chain (SC), and
- 2. Build a model of '**best practices**' supporting innovation and improvements in SC performance





Method

- Case studies based on semi-structured interviews with SC market players and some secondary data collection (e.g. firms webpages)
- Three case studies per country, 22 case studies overall (11 lamb meat; 11 sheep & goat dairy)
- Cases purposefully sampled (Yin 1994) including innovative approaches, different products and SC organisations (meat/dairy, commodity/high quality production etc.) to allow general applicability of results
- Within and cross-case study analysis for theory building (Glasser & Strauss 1967)





Background concepts used

- The research was mostly inductive to identify what the SCs investigated are doing that is unique
- However, some broad concepts from the SC innovation literature were used for the research protocol and the analysis as references:
- Continuous innovation (e.g. Soosay et al 2008)
- Capabilities development (e.g. Beske et al 2014)
- Changes in relations (van Mierlo et al 2010)
- Changes in rules (van Mierlo et al 2010)





Practices examples from the within-case analysis (1)

SC case study examples	Best practices (BP) / failing factors (FF)		
A_UK. Tesco 'cost of production' contract with 150 farmers (25% of which younger than 35 yrs.), where farm-gate price is based on market price and cost of production collected by an external consultant	 Strategic sourcing (BP): young farmers Lean management (BP): supply continuity and conformity, (partial) SC consolidation Establishment of key learning point (BP): cost of production data collection Continuous negotiation (BP): negotiation about supply volumes (from initial 100% to current 70% compulsory sale to Tesco) 		
B_GR. FARMA CHALASTRA S.A. is a specialised firm in slaughtering and cutting, selling to supermarkets and foreign customers, supplied by ~ 100 farmers. Investment in cut differentiation (including cold cuts), charcuterie and biogas unit	 Lean management (BP): supply continuity and conformity, (partial) SC consolidation, waste reduction Product innovation (BP): product differentiation (cold cuts) No partnership agreement with retailers (FF): focus on operations without a strong commercial strategy, subsequent low return to players upstream of the chain 		

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Practices examples from the within-case analysis (1)

SC case study examples	Best practices (BP) / failing reasons (FailR)		
C_FR. SICABA cooperative slaughtering, cutting and marketing to different customers lamb meat (organic, Label Rouge, PGI labelled) supplied by its 228 members and other local farmers	 Strategic sourcing (BP): high quality lamb Establishment of key learning point (BP): feedback on carcase performance Joint planning (BP): agreement on the sale schedule with the member farmers Product innovation (BP): offer of racks as 'lamb fillet in the manner of magret' to handle carcase imbalance Market routes differentiation (BP): to handle carcase imbalance 		
D_FI. REKO-ring lamb sale: case of an organic farmer undertaking slaughtering, cutting, direct sale at farm, market town through REKO-ring (pre-booking on Facebook), shops and hypermarket	 Specialistic knowledge (BP): the farmer is the 'knowledge owner' of the slaughtering and cutting operations (he's a Uni degree in Animal Science and attended courses in animal processing) Market routes differentiation (BP): to handle carcase imbalance by reaching different consumer segments 		
nypermarket			





Best practices pattern matching examples (1)

<i>Meta-constructs</i> and best practices with n. of SCs engaged [n.]	Contribution to better performance metrics	
Establishment of key learning points		
• Feedback on carcase performance [2]	Product quality	
• Data collection on cost of production [1]	Reduction of production costs	
Information sharing		
 Implementation of traceability till individual retail cut [6] 	Consumer loyalty; Product quality; Reduction of transaction costs	



Best practices pattern matching

C Meta-construct and best practices with n. SCs engaged [n.]	Contribution to better performance metrics
Lean supply chain management	
 'Piecemeal' approach to lean management [2] 	Product quality consistency; Logistics efficiency; SC response time; Waste reduction
Relationship management	
 Joint planning [8] Strategic sourcing [7] Continuous negotiation [6] 	Information efficiency; Product availability on shelf; Logistic efficiency; SC response time; Consumer loyalty
Handling carcass imbalance	
 Market route differentiation [10] Product innovation [5] Trade (export/import) [8] 	Consumer satisfaction; Product availability on shelf; Waste reduction
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Propositions for successful innovation in lamb meat SCs based on patterns of best practices

- 1. Knowledge management practices such as establishment of key learning points and information sharing facilitate operations, long-term relations and innovation
- 2. Innovation entailing operation efficiency requires a 'piecemeal' approach to lean management and relationship management
- 3. Product innovation to succeed requires strategic planning and relationship management
- 4. SC operators are required to seek continuous innovation and new end markets to handle production / sale imbalance problems







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