iSage Regional Workshop Thessaloniki, GR – 14 January 2020

Consumer trends and needs iSAGE results & recommendations

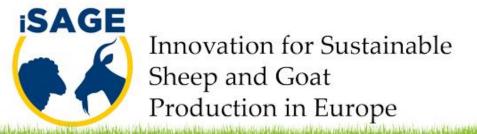
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Ancona, Italy

Stefano Orsini

Organic Research Centre, UK







Supply side: outlook is uncertain

	Sheep & Goats					
	Heads (Millions)			As % of total ruminants (LU)		
	1997	2007	2017	1997 2007		2017
Europe	180	154	151	9.9%	10.7%	11.1%
World	1736	1977	2237	10.6%	11.1%	11.7%

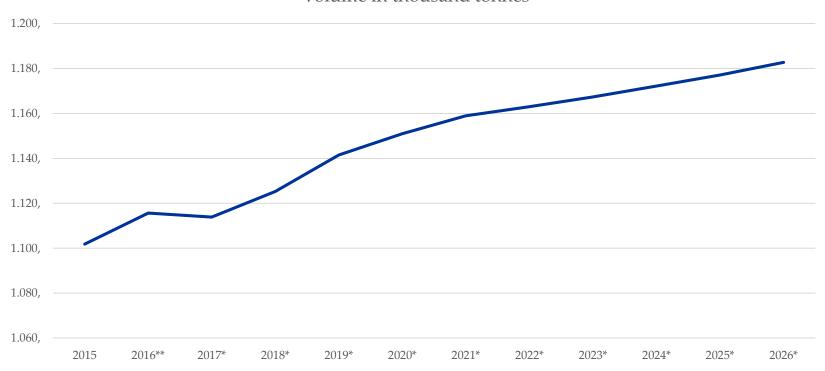
Source: FAOSTAT, 2019





Sheep Meat market outlook

EU-28: sheep meat consumption volume forecast 2015-2026 Volume in thousand tonnes

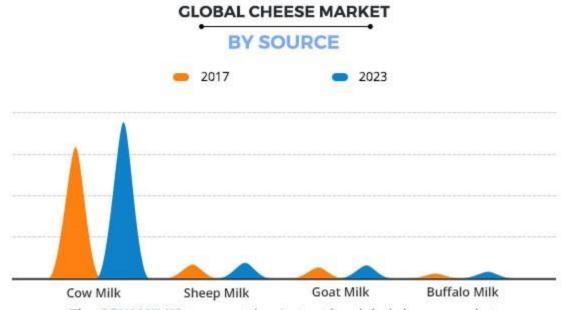


Source: OECD & FAO





Ewe/Goat cheese market outlook: niche confirmed



The **COW MILKS** segment dominates the global cheese market and is expected to dominate throughout the forecast period.

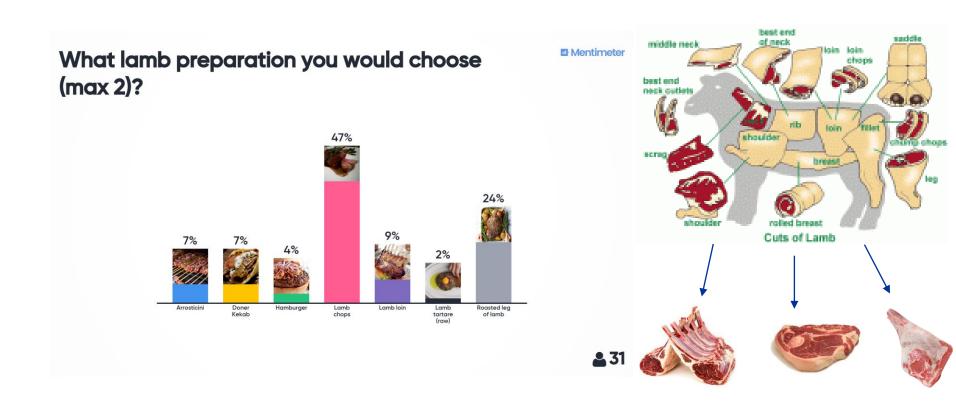
Source: Allied Market Research





Challenges for lamb meat SCs

Carcase imbalance

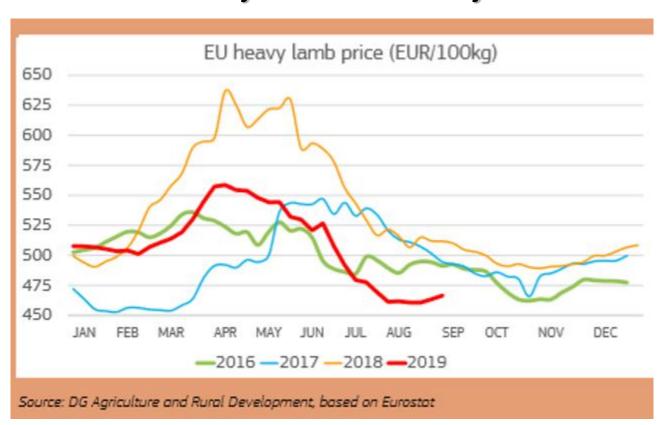






Challenges for lamb meat SCs

Market volatility & seasonality

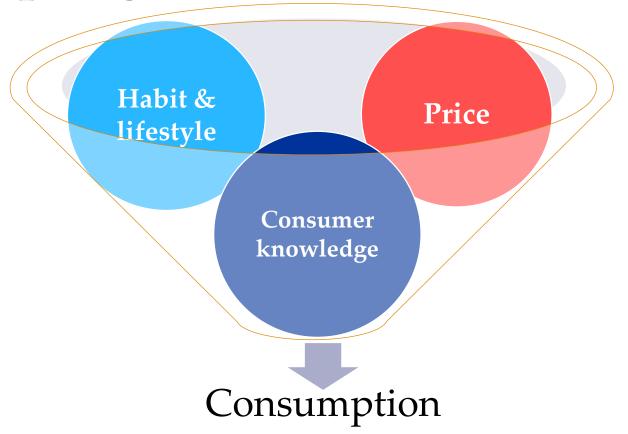


Easter Christmas? Eid-al-Adha (Aug)?





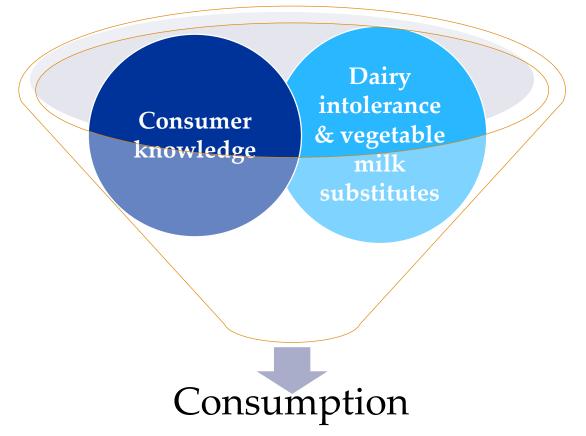
Retailers views: barriers to market development sheep & goat meat







Retailers views: barriers to market development sheep & goat dairy products

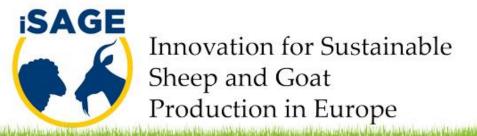






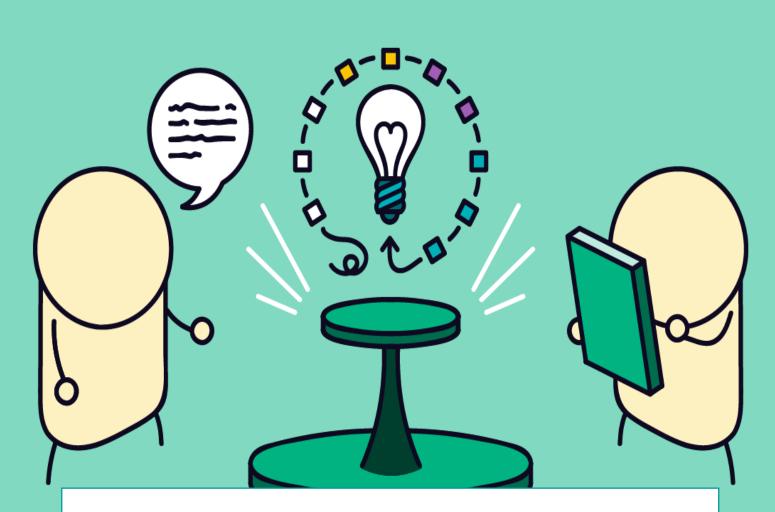
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iSAGE Consumer research Results







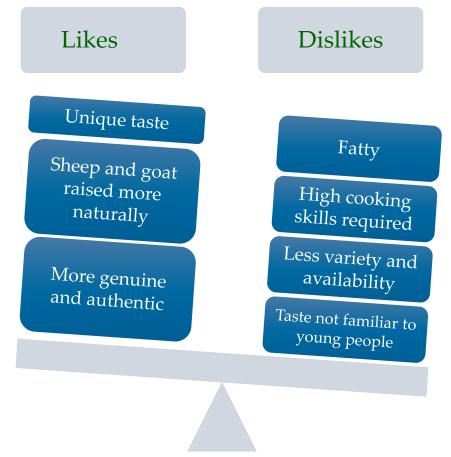


Qualitative research





Focus Group overall results: meat







Focus groups results for meat

"Chicken meat smells badly because of how they are raised and fed in closed cages where hens are not healthy" (F, Reg., TR)

Free Range perception

"Meat [...] is purer and has less hormones, so I trust to consume more of it" (F, Occ., GR)

Unique taste

"My children eat lamb with difficulty because of its smell" (F, Reg., TR).

"I would never consider buying sheep/goat meat from a supermarket or from a butcher whom I don't know personally "(F, Occ., GR)

Shopping Habits

"I buy from a farm that I know. I don't trust the big supermarkets. I'm not also sure if Islamic rules are applied" (F. Reg., TR)

"We eat lamb regularly at home because we all love it"(F, Reg., GR)

"Sheep and goat meat is not for everyday" (F, Occ., GR)

"Lamb chops are very tasty when prepared in traditional barbecues. When I go out to taverns I order lamb chops" (M, Occ., GR)

Cuts/portion size

"I would buy sheep and goat meat if it was available in small portions quantities. I live alone and I cannot consume much" (F, Occ., GR).

"I know that I will pay more for quality meat (M, Reg., GR)

Quality/Price

"We consume sheep meat once in a week. Consuming every day is not possible for us because of economic conditions(M, Reg., TR)





Situation

Results summary - Dairy

Likes **Dislikes** Poor information Unique Taste on product labels High price and Versatility small variety Sheep and goat Taste/Smell freely graze Healthier compared Fatty not for daily to other dairy consumption products (cow milk)





Focus groups results for cheese

"Sheep dairy products have a richer taste if compared to cow products" (F, Reg. GR)

Taste

" My daughter does not like goat products because of their heavy smell "(M, Reg.TR)

"For me, elements giving specific taste to cheese and yogurt can come only from ewe and goat milk" (F, Reg., TR).

"Ewe-milk yoghurt is a traditional product, but I stopped consuming it the last few years because it is not very common in supermarkets" (F, Occ., GR).

Availability

"I buy my cheese from the producer that I know" (M, Occ., TR)

Shopping habits

"I basically buy a specific local brand of feta since a long time. I like it, I trust it and I don't want to buy another one" (M, Occ., GR).

"I was not aware of it [feta cheese] before I went on holidays to Greece, and when I came back I wanted to prepare my own Greek salad" (F, Occ., UK).

Knowledge

"Many products are of very high quality, and even healthier than organic, without any type of certification" (M, Reg., GR)

Quality & Price

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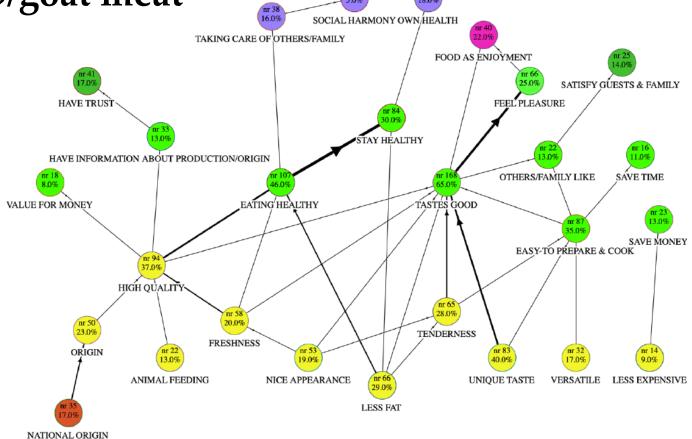
"I buy cheese from a small dairy and this cheese is considerably more expensive but it is exactly as I want it" (F, Reg. GR)



Qualitative results for meat



Cognitive structure of <u>motivations</u> to purchase sheep/goat meat



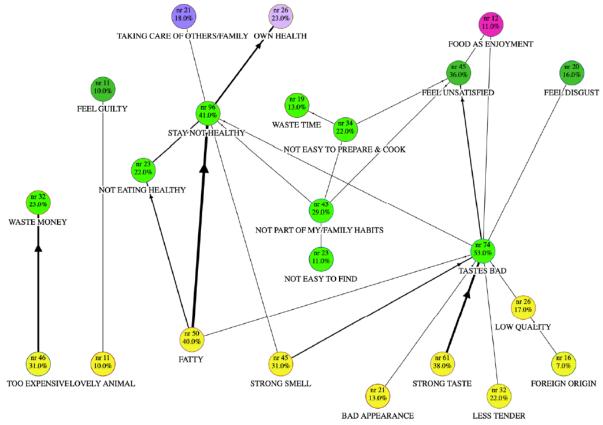




Qualitative results for meat



Cognitive structure of <u>barriers</u> linked to the consumption of ewe/goat meat



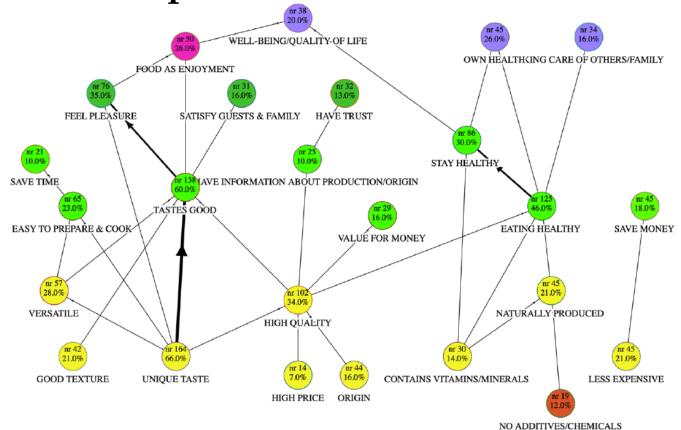




Qualitative results for cheese



Sheep/goat dairy products – cognitive structure of motivations to purchase







Qualitative results for cheese



Cognitive structure of barriers linked to the consumption of sheep/goat dairy products for non-

consumers ÓWN HEALTH FOOD AS ENJOYMENT HAVE NO TRUST FEEL DISGUST FEEL UNSATISFIED WASTE MONEY STAY NOT HEALTHY NOT PART OF MY/FAMILY HABITS NOT SUPPORT LOCAL FARMING TASTES BAD NOT EASY TO PREPARE & COOK STRONG TASTE TOO EXPENSIVE FOREIGN ORIGIN FATTY BAD TEXTURE STRONG SMELL











Methods: choice experiment structure - MEAT



Introductory talk included



- 4 types of labels tested
 - Halal, Organic, Carbon footprint, PGI/PDO



- 12 choice sets, 9 attributes
- Labeled: 4 alternatives
 - Lamb leg, lamb chops, goat chops, Beef T-bone
- A no-choice alternative









Choice experiment design for meat

Attributes	Lamb leg	Lamb chops	Goat chops	Beef T-bone
Price	•Average price •-30% •+30%	•Average price •-30% •+30%	•Average price •-30% •+30%	•Average price •-30% •+30%
Origin	•National •EU •Out of EU	•National•EU•Out of EU	•National•EU•Out of EU	•National •EU •Out of EU
PGI/PDO				
Low carbon footprint	reducing with the Carbon Trust	reducing with the Carbon Trust	reducing with the Carbon Trust	reducing with the Carbon Trust CO2 carbon-label.com
Organic	7	****	The state of the s	The state of the s
Fat content			-	
Protein content	HIGH PROTEIN CONTENT	HIGH PROTEIN CONTENT	HIGH PROTEIN CONTENT	HIGH PROTEIN CONTENT
Halal	TICLE PODD AUTHORITY	MAGL POID ALTHOUT	RIALITONALTIOLAT	RICAL PROPAGETORIAN
Format				LINIIVED SITÀ





Choice experiment attributes





Choice experiment for meat

















Choice experiment for meat







Results: meat cuts and type

*Beef is the reference category

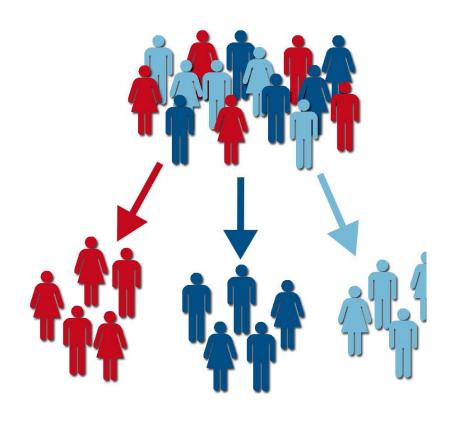
Meat	Finland	France	Greece	Italy	Spain	Turkey	UK
Beef T-bone	_	-	_	_	-	_	-
Lamb leg		11	I	Ţ	I	Ţ	11
Lamb chops	Ţ	1		1	1	1	11
Goat chops	11	11	ļ	11	Ħ	Į.	I
None	I .	1	I.	11	11	11	1





Consumers are not all alike

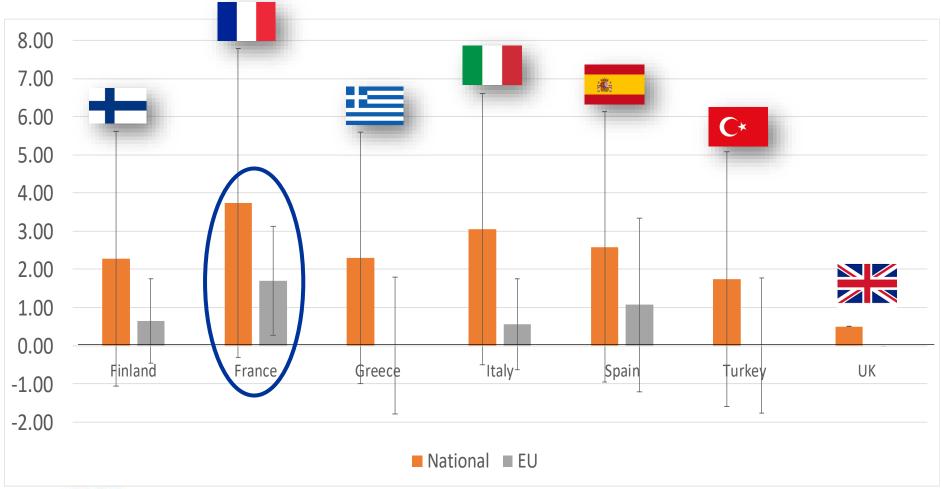
- Consumer have heterogenous preferences depending from status, culture, income, education, family & household characteristics, past experience, etc.
- They search for different benefits, and have different views of risks
- Market segmentation is necessary







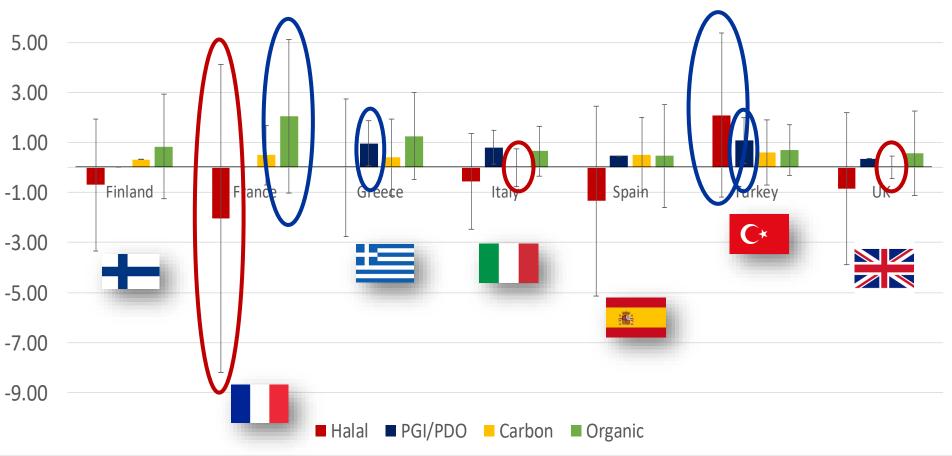
WTP for Origin (€)







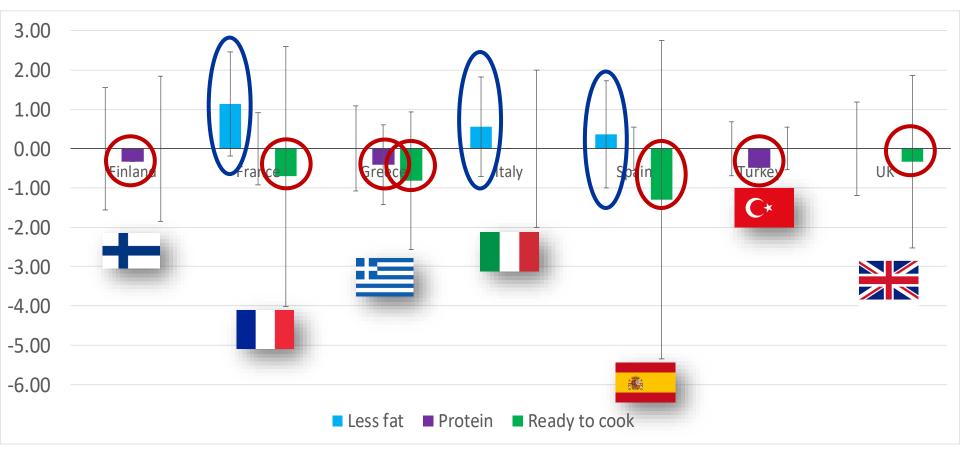
WTP for Halal, PGI/PDO, Carbon footprint and Organic label (€)







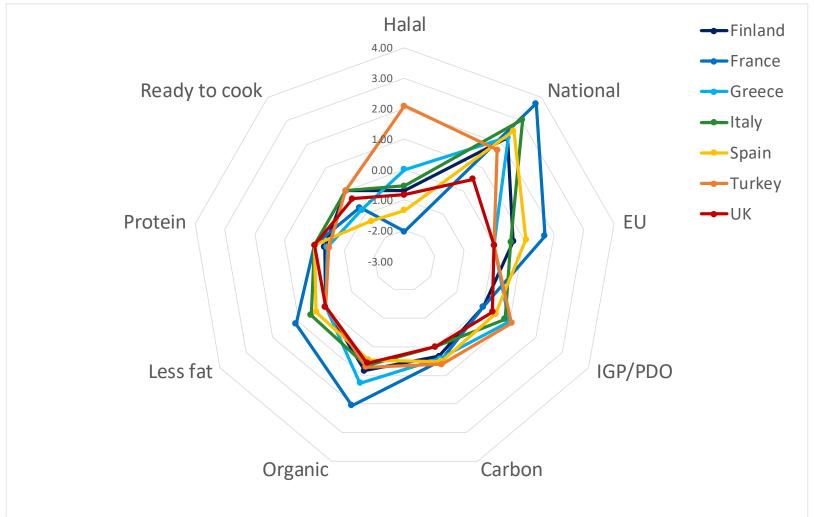
WTP for health related labels (€)







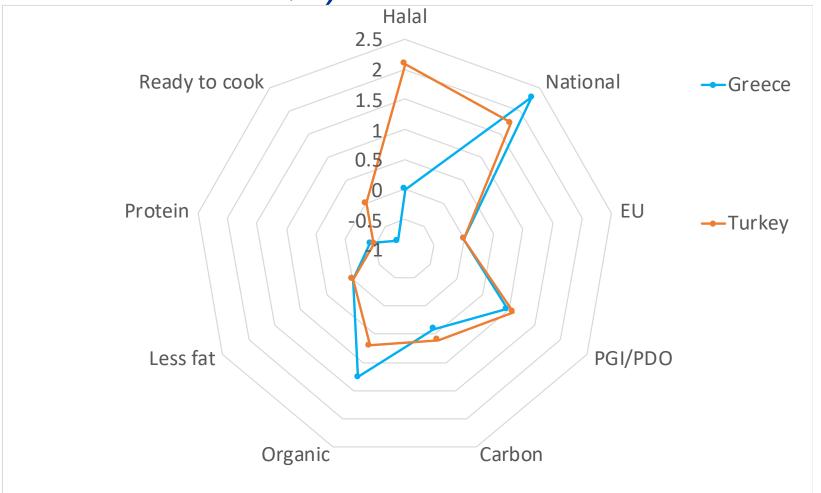
Average Willingness-to-Pay (€) Comparison with other countries







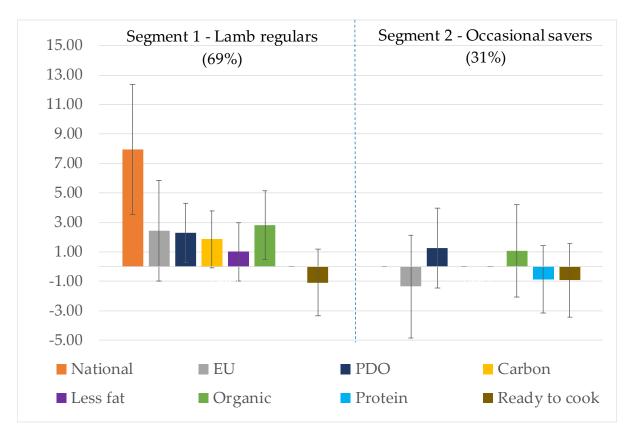
Average WTP for meat – GR & TR (€)







GR Meat segments (WTP €)







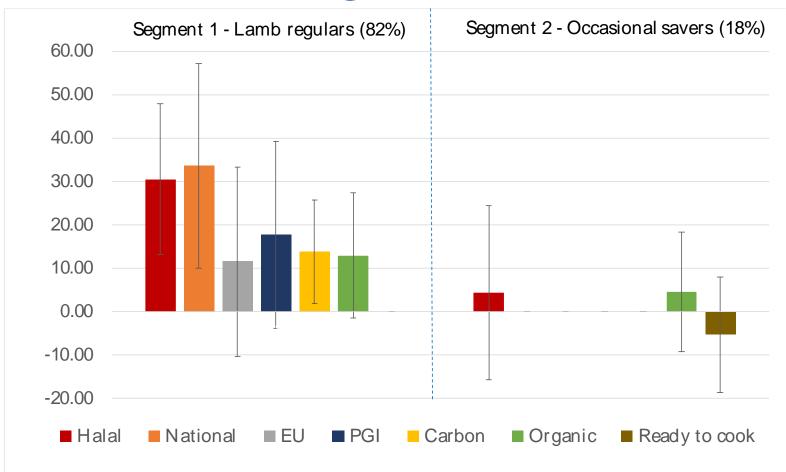
GR Meat segments

	Sociodemograph ic	Behavior	Knowledg e	Psychographic s	Main attributes
Segment 1 - Lamb regulars (69%)	Male, 35-44 years old, employed, higher education and larger households	Regular lamb consumers, especially on weekends. Stable consumption in the last 3 years.	High knowledge about lamb meat.	Likes novelty, follows an unhealthy lifestyle and has no interest in convenience	National or EU origin, organic, PDO, Carbon footprint, less fatty
Segment 2 - Occasional savers (31%)	Female, 55-64 years old, unemployed or retired, no kids, smaller households.	Stable/decreasin g consumptions of lamb in the last 3 years. Mainly eaten in religious holidays	Low knowledge about lamb meat.	Do not like novelty, prefers convenience and has a healthy lifestyle.	Price sensitive, PDO, Organic, non-EU origin and no high protein content





TR Meat segments (WTP b)







TR Meat segments

	Sociodemogra phic	Behavior	Knowledge	Psychographics	Main attributes
Segment 1 - Regular consumers (82%)	25-44, 55-64 years old, higher income, smaller households	More frequent beef and lamb consumer. Buys lamb chops at the butcher.	Relies on the advice from friends, family and the butcher. High knowledge on lamb meat	Novelty driven, (price/quality concerns)	National, Halal, PGI, Carbon footprint, Organic
Segment 2 - Occasional savers (18%)	18-24, 45-54 years old, lower income, bigger households	Less frequent beef and lamb consumer. Buys minced and diced lamb. Shares the responsibility of buying groceries.	Relies on butcher advise when selecting lamb. Low knowledge about lamb.	No novelty driven, (no price/quality concerns)	Halal, Organic, price sensitive. No "ready to cook" format.





Let's continue with ewe and goat cheese!





Methods: choice experiment structure –CHEESE

- Introduction
 - Important to avoid hypothetical bias
- Labels and key concepts definitions
 - Pasteurisation, Rennet, Organic, PDO
- Choice experiment
 - Regular day consumption
 - 18 choice sets, 2 blocks, 8 attributes
 - 2 Labels, 4 alternatives
 - Aged cheese A, Aged cheese B, Fresh cheese A, Fresh cheese B
 - A no-choice alternative





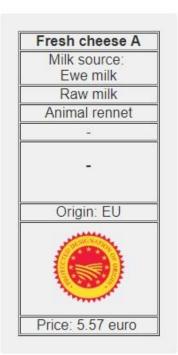


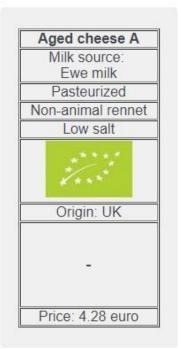


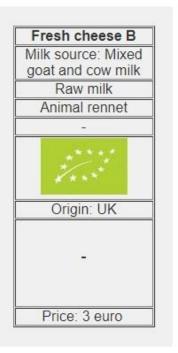
Choice experiment design for cheese

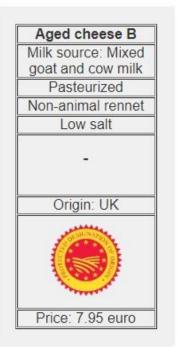
Attributes	Aged cheese A	Aged cheese B	Fresh cheese A	Fresh cheese B
Milk source	•Ewe •Goat •Cow •Mixed	•Ewe •Goat •Cow •Mixed	•Ewe •Goat •Cow •Mixed	•Ewe •Goat •Cow •Mixed
Pasteurised	•Pasteurised •Raw	•Pasteurised •Raw	•Pasteurised •Raw	•Pasteurised •Raw
Rennet	•Animal rennet •Non animal rennet	•Animal rennet •Non animal rennet	•Animal rennet •Non animal rennet	•Animal rennet •Non animal rennet
Salt content	•Low salt •None	•Low salt •None	•Low salt •None	•Low salt •None
Organic	****	****	****	Zant.
Origin	•National •EU	•National •EU	•National •EU	•National •EU
PDO/PGI				
Price SAGE	•Average price •-30% •+30% iSage Regional Wor	 Average price -30% +30% kshop - Thessaloniki, GR - 14 January 	•Average price •-30% •+30%	•Average price •-30% •+30% UNIVERSITÀ POLITECNICA

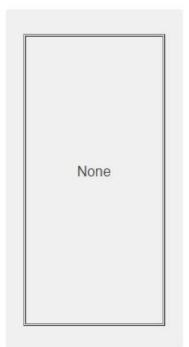
Choice experiment for cheese















Results for cheese type

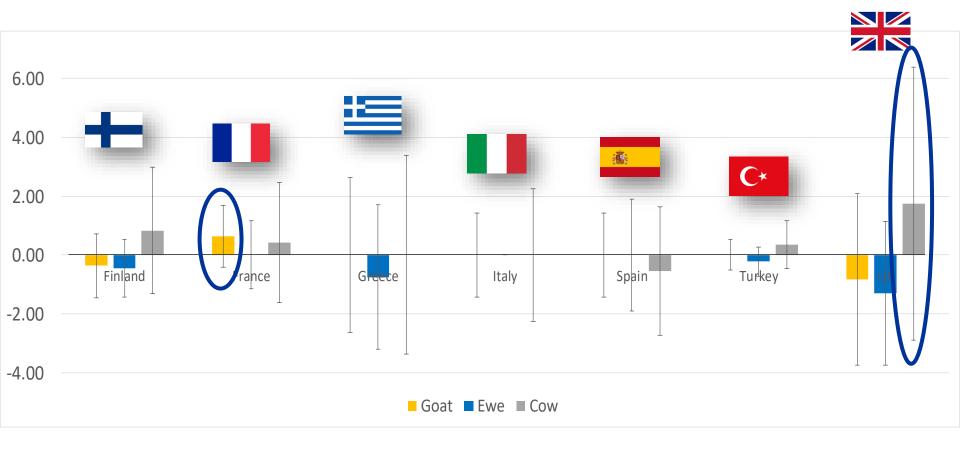
*None is the reference category

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

5% significance level



WTP for one milk type cheese (€)







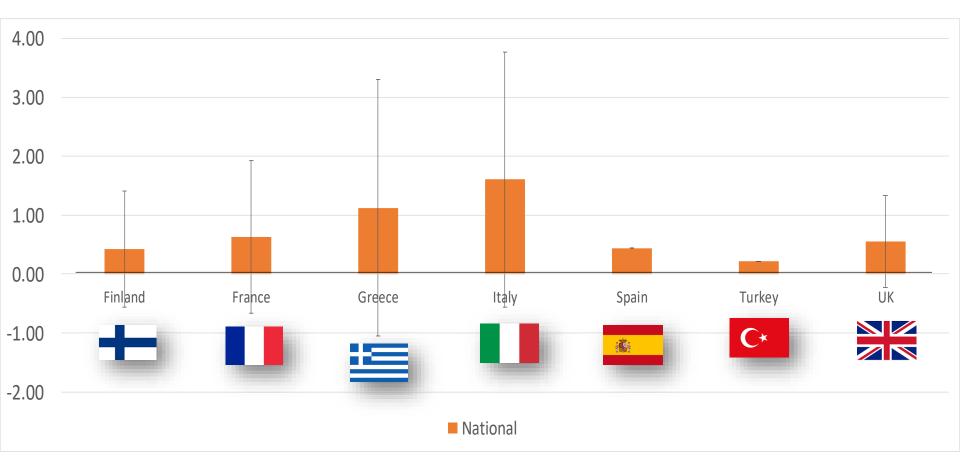
WTP for mixed cheese (€)







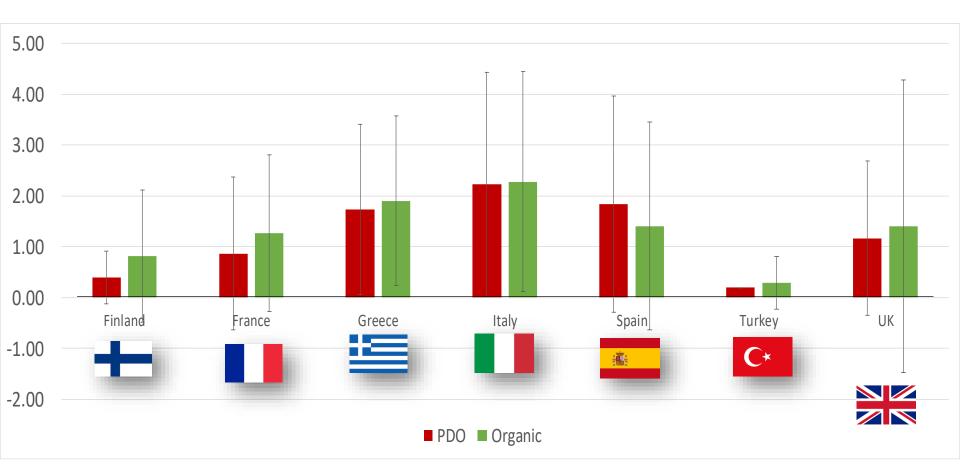
WTP for cheese national origin (€)







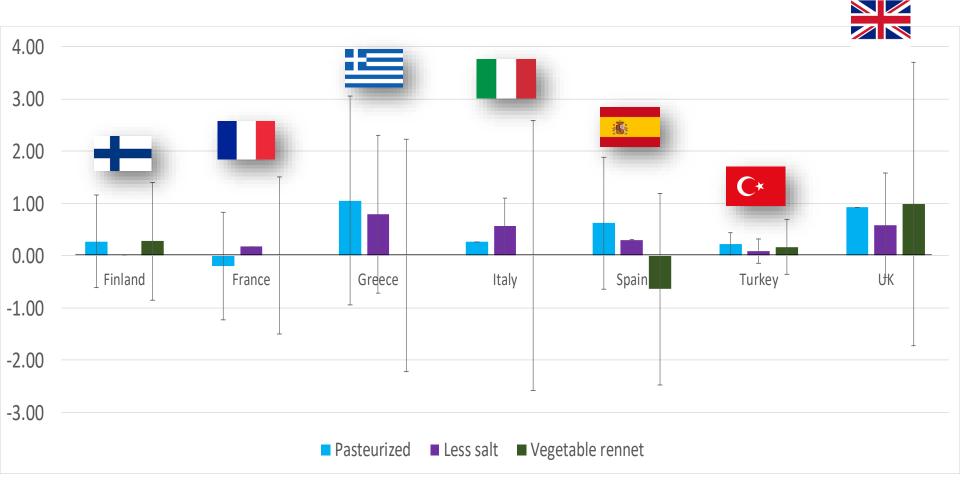
WTP for PDO and organic label (€)







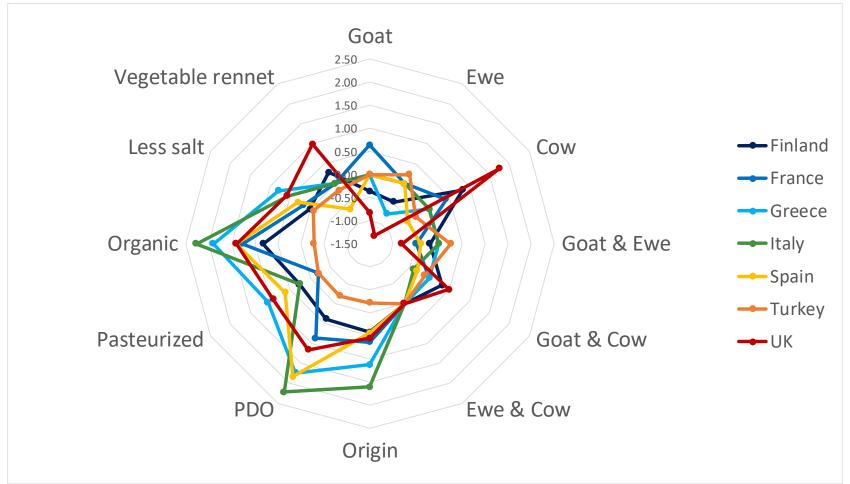
WTP for pasteurization, less salt & vegetable rennet (€)







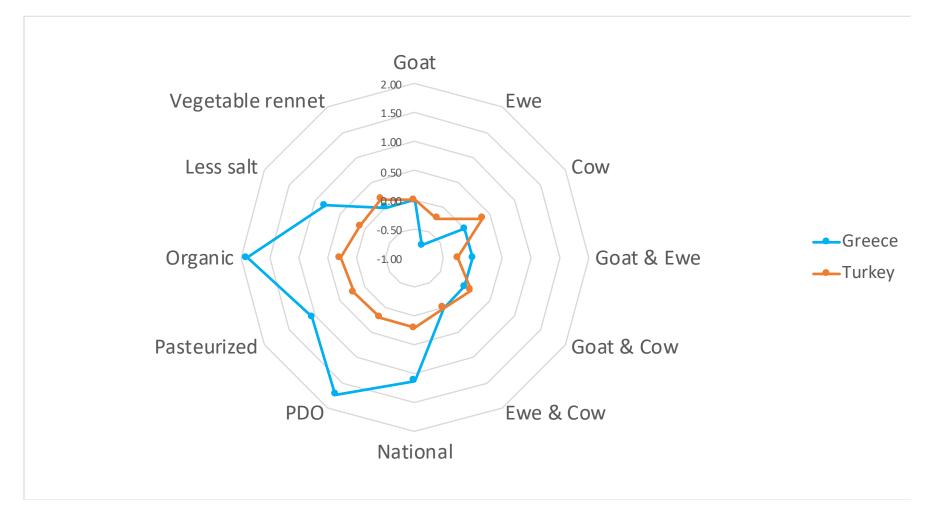
Average Willingness-to-Pay (€) Comparison with other countries







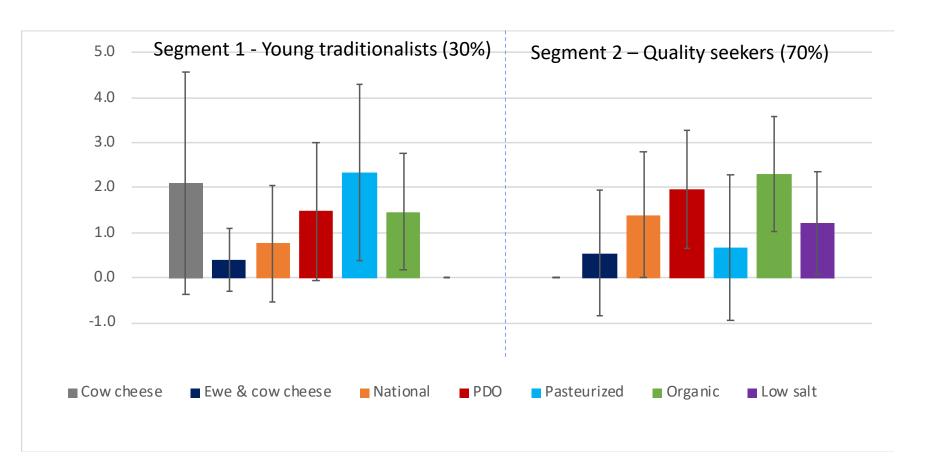
Average Willingness-to-Pay (€) GR & TR Cheese







GR Cheese segments (WTP €)





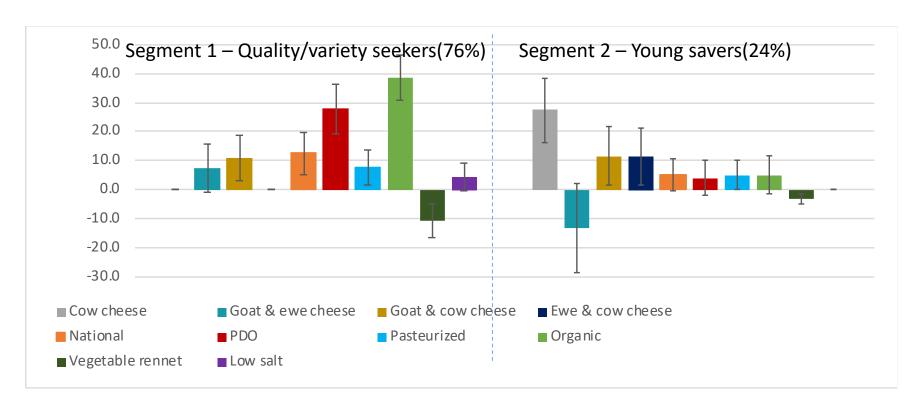


GR Cheese segments

	Sociodemogra phic	Behavior	Knowledge	Psychographics	Main attributes
Segment 1 – Young traditionals (30%)	18-34 years old, students, male, singles and young couples	1 1 1 .	Buy cheese in blocks	Non organic	Pasteurized, cow cheese, PDO, Organic
Segment 2 – Quality seekers (70%)	•	Special occasion, also buys Roquefort and Pecorino, More frequent ewe/goat cheese consumers, buy cheese in block/sliced, consumption stable/increased	Trust on family advice and experience .	Organic, higher ethical concerns	Aged cheese, Organic, PDO, National, low salt



TR Cheese segments (WTP 1/2)







TR Cheese segments

	Sociodemogra	Behavior	Knowledge	Psychographics	Main		
	phic				attributes		
Segment 1 – Quality/vari ety seekers (76%)		Roquefort, ewe/goat cheese regular consumer, increased consumption in the last 3 years	Believe they have higher knowledge	No price concerns, Neophilic, organic, Convenience	Organic, PDO, National, Animal rennet, Mix goat cheese		
Segment 2 – Youns savers (24%)	18-24 years old, students, low/medium income	Not a goat/ewe cheese regular consumer, also buy at the local market, stable onsumptionc	Able to recognize sheep/goat cheese, feel they have less knowledge.	Price concerns, Neophobic, not organic, not convenience	Cow or cow mix cheese, No goat & ewe. National, Pasteurized, organic		





Challenges: Changing families & habits

Households spend less time preparing and cooking meals



After several years of shifting away from full-service restaurants and fine dining in order to reduce their expenses, Greeks are starting to trade up in their fast food option, treating themselves with economy yet more premium fast food alternatives. As a result, limited-service restaurants posted the fastest growth in 2018, whilst the average spend per transaction witnessed a hike amidst the premiumisation trend. (Euromonitor, 2019)

Ready-to-eat or Ready-to-cook meals? 12% GR households buy (Source: MARC) **Eating out-of-home?**





Challenges: Switching to other meats....

Fresh Other Red

No Switch change
In Switch decline

Width indicates importance of switch
Size of bubble represents total net switching value

- GR per capita meat consumption: 75 kg, of which 13 kg of sheep and goat meat
- TR per capita meat consumpion 25 kg, of 4.3 of sheep meat.

(Source: FAOSTAT-OECD)

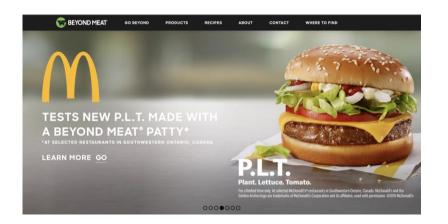
KANTAR WURLDPANEL

Fresh Meat and Poultry | 52 w/e |













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and Beyond meat!

https://www.beyondmeat.com







and beyond milk (no-mooh cheeses)











- «Antifragility is beyond resilience or robustness. The resilient resists shocks and stays the same; the antifragile gets better» (N. Taleb)
- The phenomenon is well studied in medicine, where for example Wolff's Law describes how bones grow stronger due to external load.
- According to Taleb, depriving systems of vital stressors is not necessarily a good thing and can be harmful.

How to become antifragile?

- The small ruminants sector is mainly unbranded (meat) or, at the best, "underbranded" (cheese>).
 - You have generic/PDO cheese names (like feta, pecorino), or PDO/PGI labels in meat, but no real renown brands
 - Even organic label is generic, although it increases value added
- Introducing and marketing (collective) **brands** and **fancy packaging** may be a strategy to increase sales especially in the meat sector.





Nice to meat you!

- There is nothing as little seducing than meat. Dead flesh and blood are not really sexy, unless for those who love *The walking dead*...
- Sexy, attractive, trendy packaging may help









What about cut innovations?













Or convenience innovations?

























Or packaging innovation?

- Packaging allows innovation in terms of shape (that has inherent symbolism), labelling, as well as serving suggestions, etc.
- Mini-portions are also a packaging innovation but need nudging
- That's a mean to achieve brand equity







We live in a reputation economy



- As consumers we value experience more than knowledge and benefits more than product characteristics
- (Social) Media, Influencers, Chefs are very important









Chefs can help making sheep/goat meat and cheese more trendy

Pictures from iSAGE taste lab at TerraMadre/Slow Food in Turin, 2018





How to become antifragile?

- The major idea is to develop antifragility by design, building a system which improves from environment's input.
- An antifragile S&G value chain would have:
 - Focus on the **right knowledge**, making it possible to detect, understand, and endure the changes affecting the supply chain
 - Real-time adjustment, to react while there is still a chance to influence positive change
 - A **network approach** instead of a linear pipeline, avoiding single points of failure







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