



# Project introduction



- The V4 countries have a lot of traditional foods and food products. In all of these countries, such products are important because they represent the nationality and originality of individual countries.
- Some of these foods and food products have been included in EU legislation as traditional specialities guaranteed. This label should guarantee that each product in this category has the same quality as traditional production.



# Project introduction



## The aims of the project:

- Spread traditional specialities guaranteed (TSG) and national products of V4
- Is the quality of TSG is really observed
- Are TSGs product using EU logo
- Which product TSGs are popular
- How is real quality of TSGs
- How to set suitable way for TSGs quality control across all V4



# Steps of the project

- Collecting information from retail market
  - Usage the questioner

aprox. 150 responses

- Sensoric evaluation of selected V4 products
  - 12 panelists

25 samples

- Examination of major component in products
  - Meat protein, collagene, salt, fat, plant hydrocoloids and MSM

# Folowing events



Košice  
21<sup>st</sup> November 2016  
University of Veterinary  
Medicine and Pharmacy  
Komenského 73

Budapest  
28<sup>th</sup> November 2016  
University of Veterinary  
Medicine  
István u. 2

Krakow  
5<sup>th</sup> December 2016  
University of Agriculture  
in Krakow  
al. A. Mickiewicza 21

Brno  
12<sup>th</sup> December 2016  
University of Veterinary  
and Pharmaceutical  
Sciences  
Palackeho tr. 1946/1

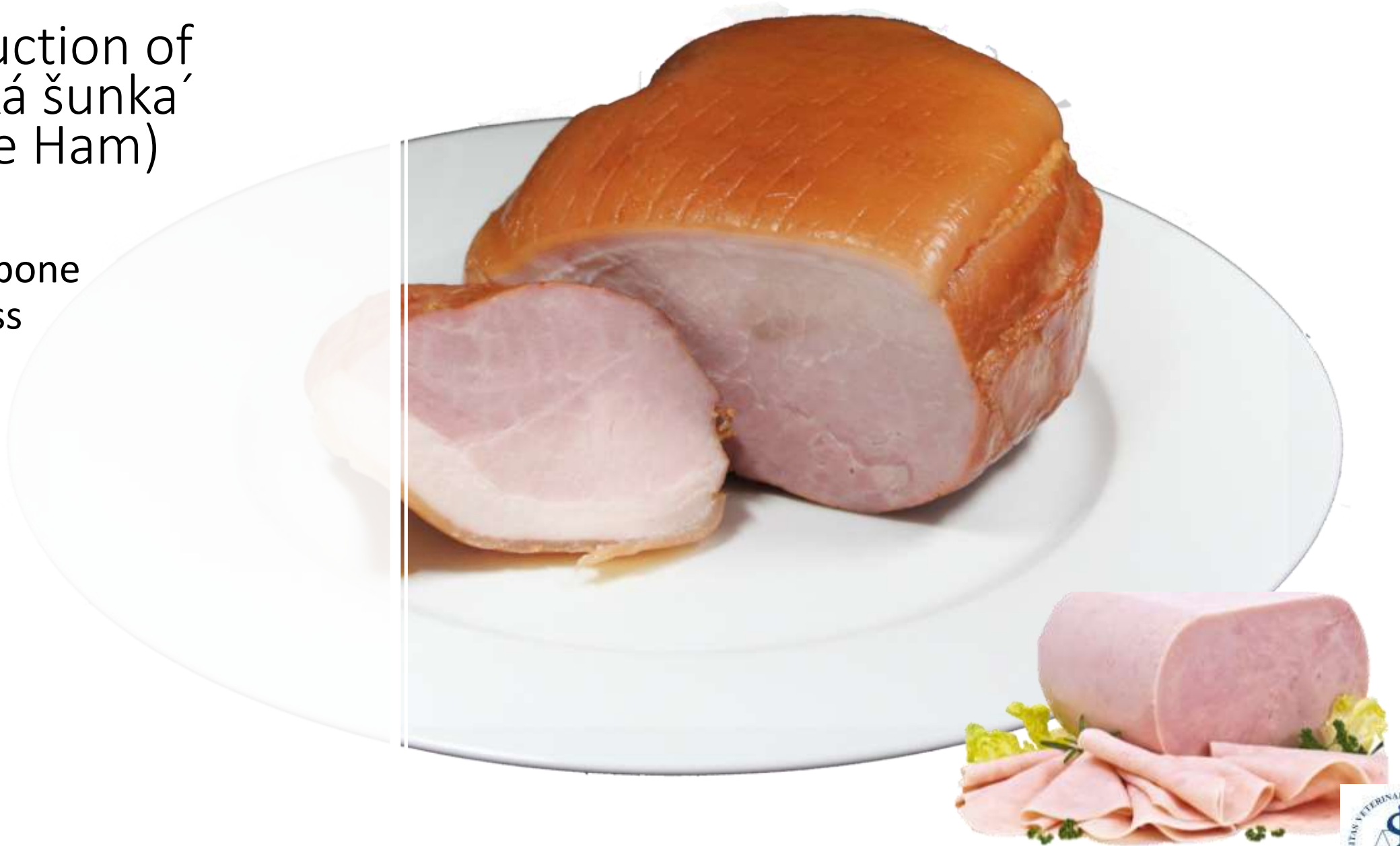






# Introduction of 'Pražská šunka' (Prague Ham)

- on the bone
- boneless
- tinned







# Introduction of ‘Pražská šunka’ (boneless)

## Physical properties:

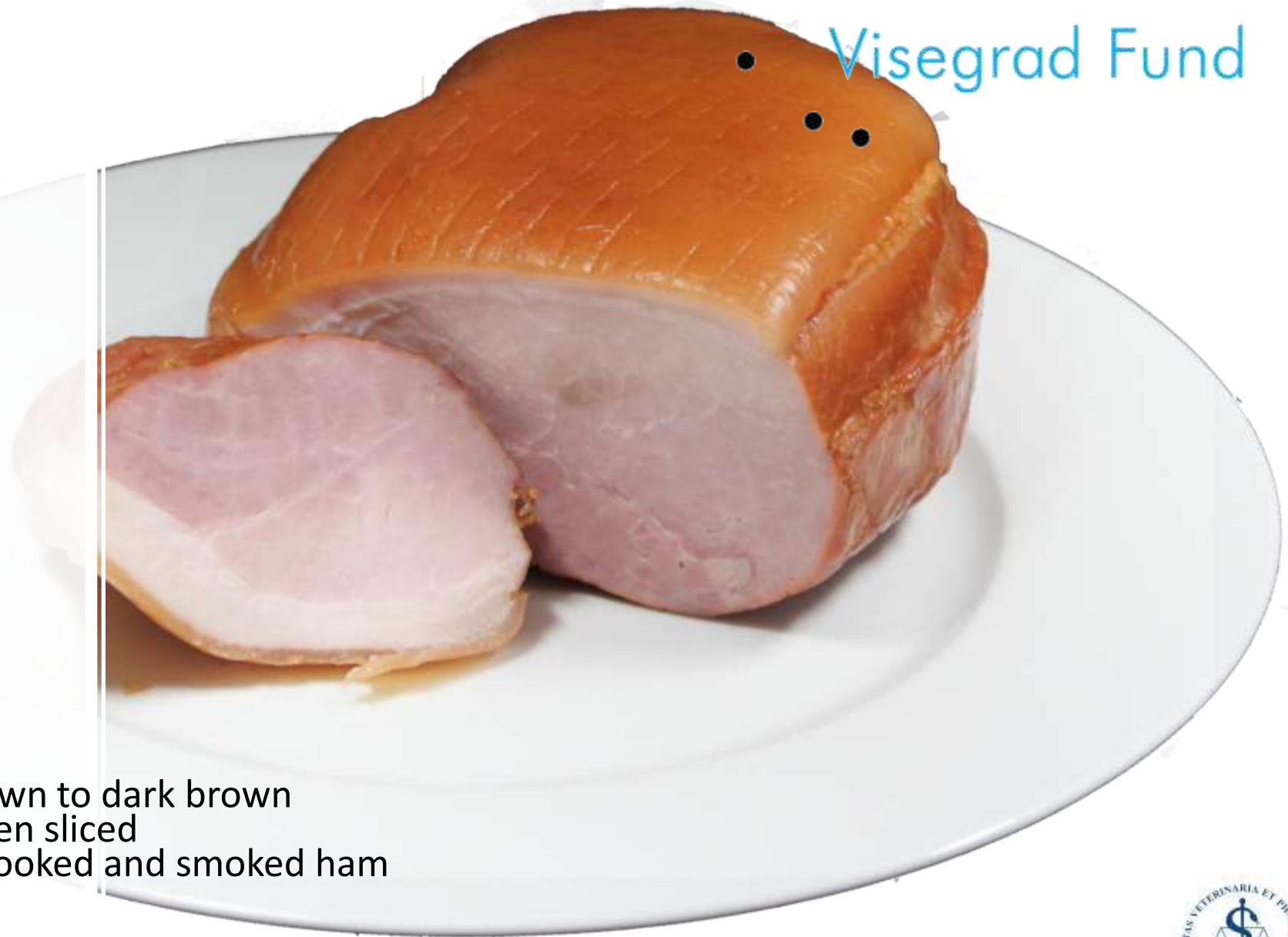
- egg-like or oval shape
- cover with or without skin

## Chemical properties:

- muscle protein min. 16 %
- salt content max. 2,5 %
- fat content max. 15 %

## Organoleptic properties:

- fat and skin is golden yellow
- muscle meat being golden-brown to dark brown
- muscle meat is meaty pink when sliced
- distinctive taste and smell of cooked and smoked ham
- firm and compact



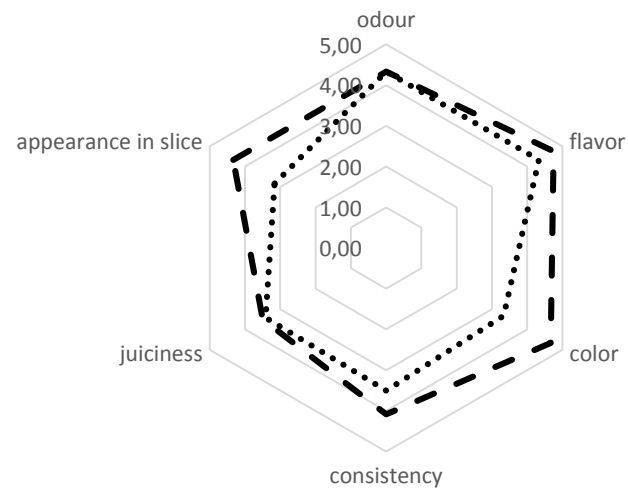


# Results 'Pražská šunka'



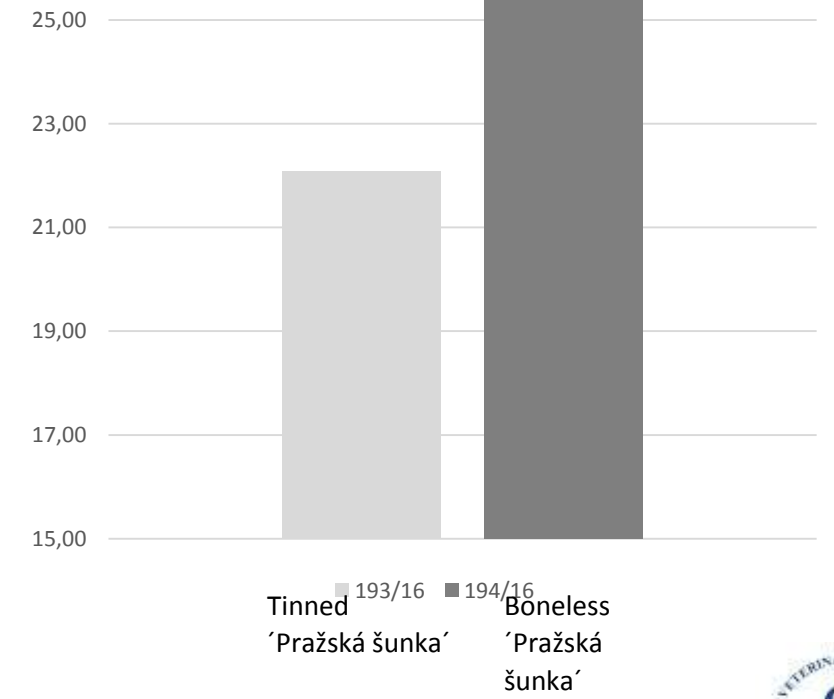
Sample	Marked as TSG	Chemical analysis				Histological analysis				
		Dry matter	Fat w	Proteine	Salt	Starch	Hydrocolloid	Bone fragment	MSM	Spice
193/16 Tinned 'Pražská šunka'	No	31,83	6,70	23,27	1.89	Dubious	Yes	0,36	dubious	No native form
Legislative limits		NA	max. 4 %	min. 16 %	max. 3%	No	No	NA	No	Yes
194/16 Boneless 'Pražská šunka'	No	28,00	4,64	17,28	1.84	Yes	no	0,05	No	No native form
Legislative limits		NA	max. 15%	min. 15 %	max. 3%	No	No	No	No	Spice extract or oil

# Results 'Pražská šunka'

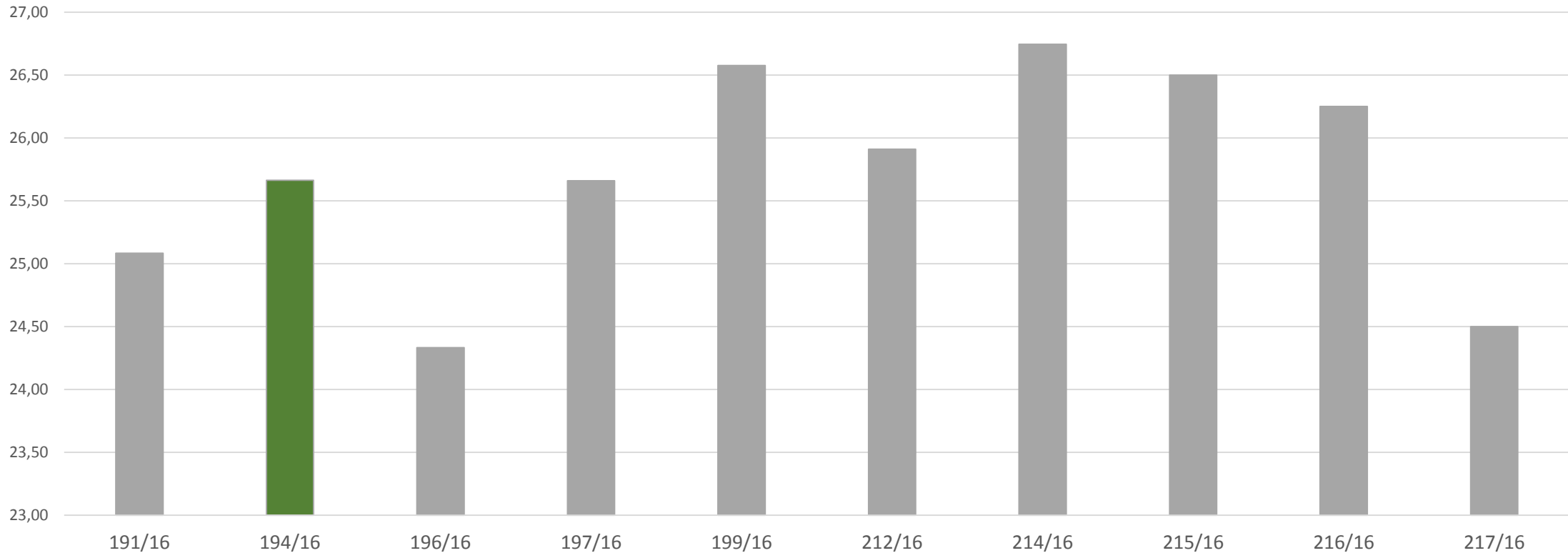


..... 193/16 Tinned 'Pražská šunka'  
 - - - 194/16 Boneless 'Pražská šunka'

Senzory evaluation of 'Pražská šunka'



# Results 'Pražská šunka'



Boneless  
'Pražská  
šunka'

Top 10 V4 products





# Results 'Dunajská klobása'



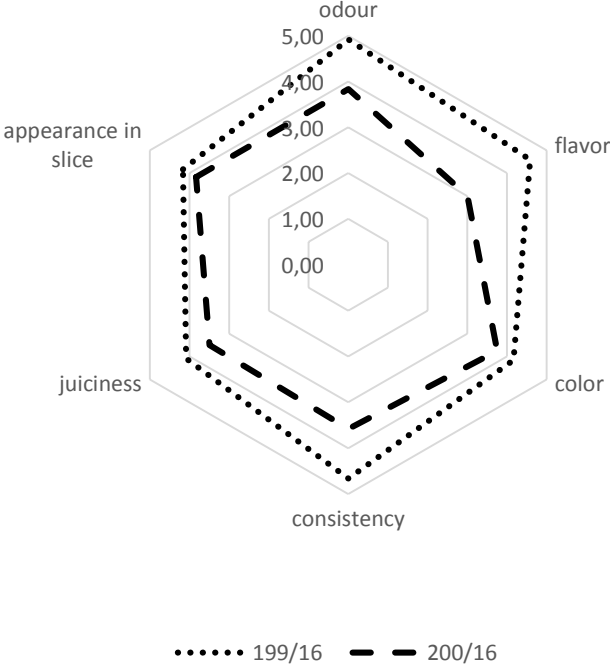
Sample	Marked as TSG	Chemical analysis				Histological analysis				
		Dry matter	Fat w	Proteine	Salt	Starch	Hydrocoloid	Bone fragment	MSM	Starter culture
199/16 'Dunajská klobása'	No	83,78	45,10	25,00	3.66	No	No	0,11	No	yes
200/16 'Dunajská klobása'	No	74,51	47,16	18,11	4.00	No	No	0,2	No	yes
Legislative limits		NA	max. 55 %	min. 14 %	NA	No	No	NA	No	NA

Only big producers

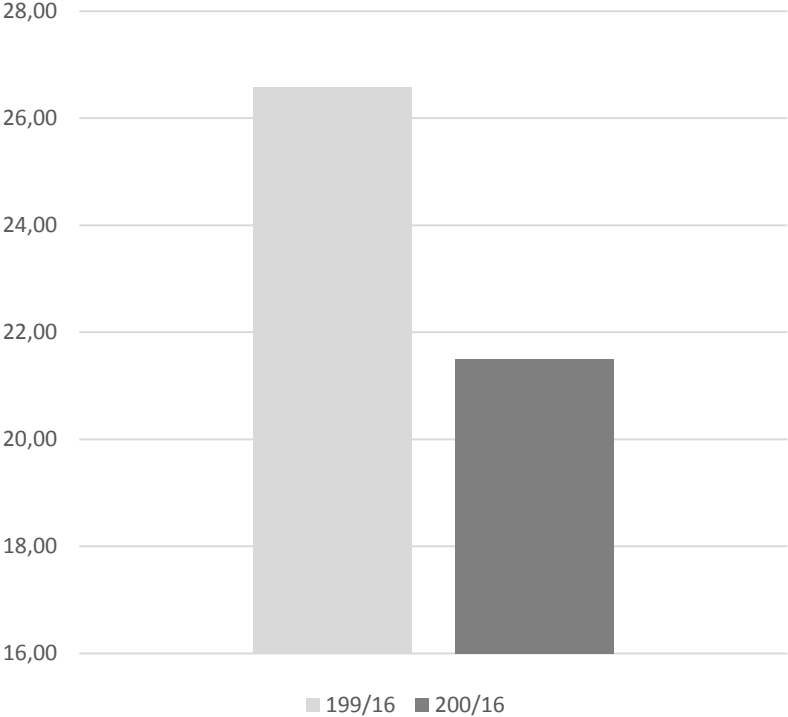




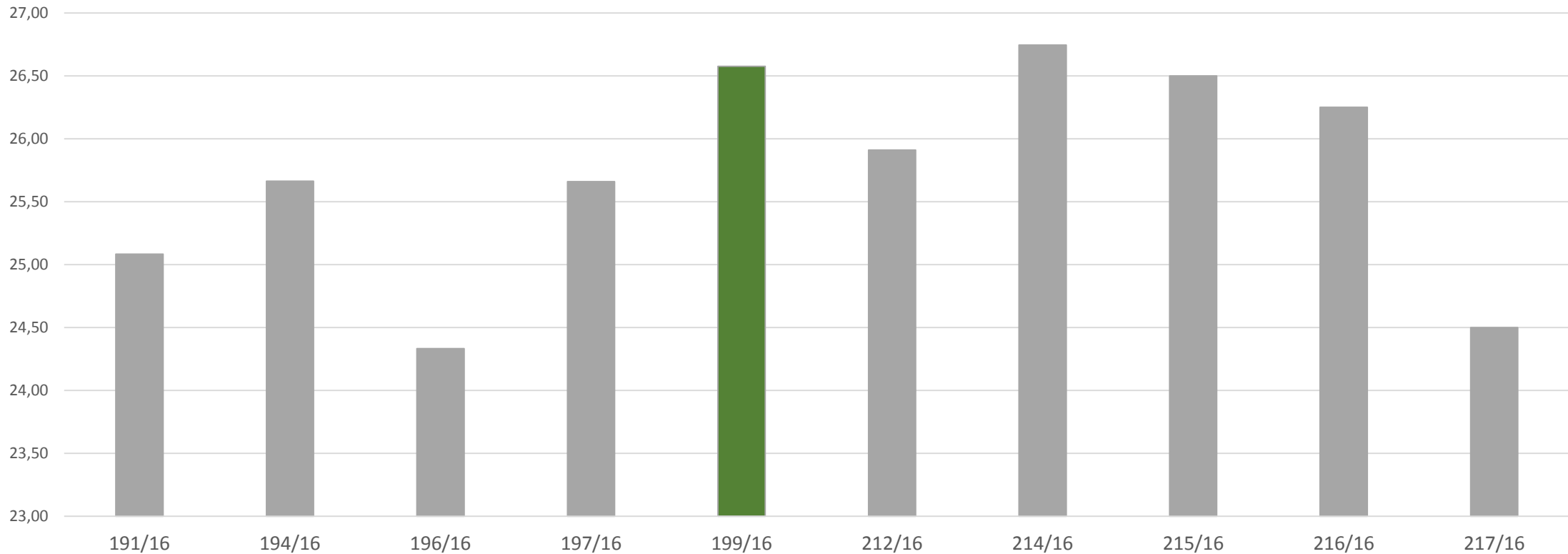
# Results 'Dunajská klobása'



Senzory evaluation of 'Dunajská klobása'



# Results 'Dunajská klobása'



'Dunajská klobása'

Top 10 V4 products



# Result 'Liptovská saláma'

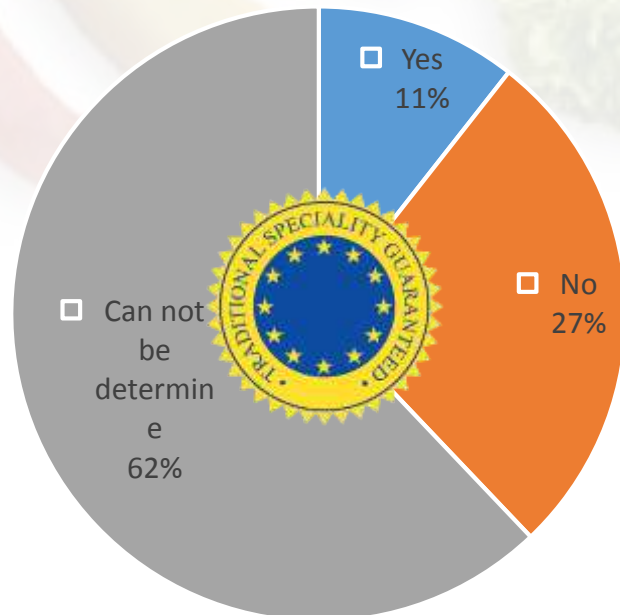
- Absolutely 0 % production in Czech

- Visegrad Fund



# Result 'Lovecký salám'

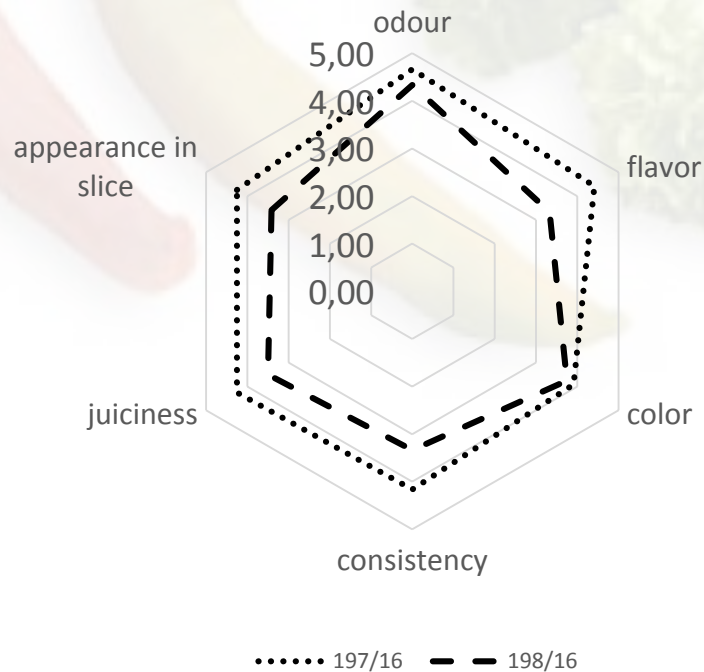
- 0 % production with TSGs label in Czech
- Similarity of composition



- 
- Visegrad Fund
- 
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# Result 'Lovecký salám'

- Sensory and analytical evaluation



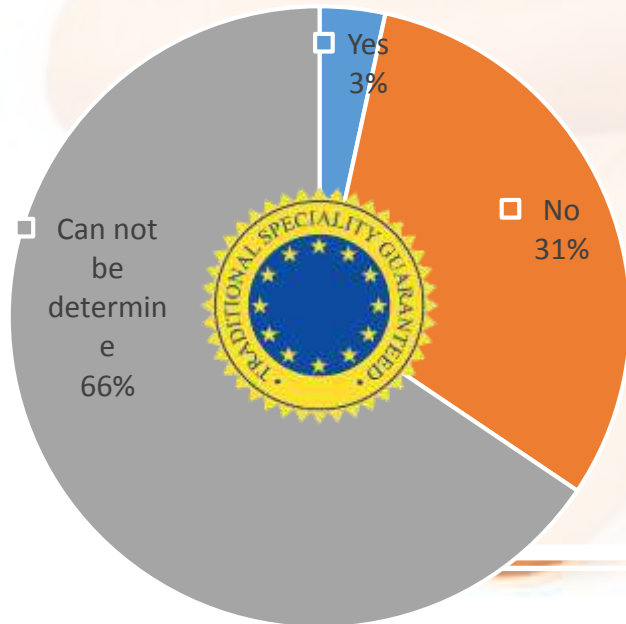
Visegrad Fund



Sample	Marked as TSG	Chemical analysis				Histological analysis				
		Dry matter	Fat w	Protein e	Salt	Starch	Hydrocolloid	Bone fragment	MS M	Starter culture
197/16 Lovecký salám	No	78,76	44,90	22,01	3.38	No	No	0,08	No	Yes
198/16 Lovecký salám	No	69,82	38,06	22,71	3.78	No	No	0,39	No	yes
Legislative limits		NA	max. 45%	min. 15 %	max. 4,2 %	No	No	NA	No	Yes

# Result 'Spišské párky'

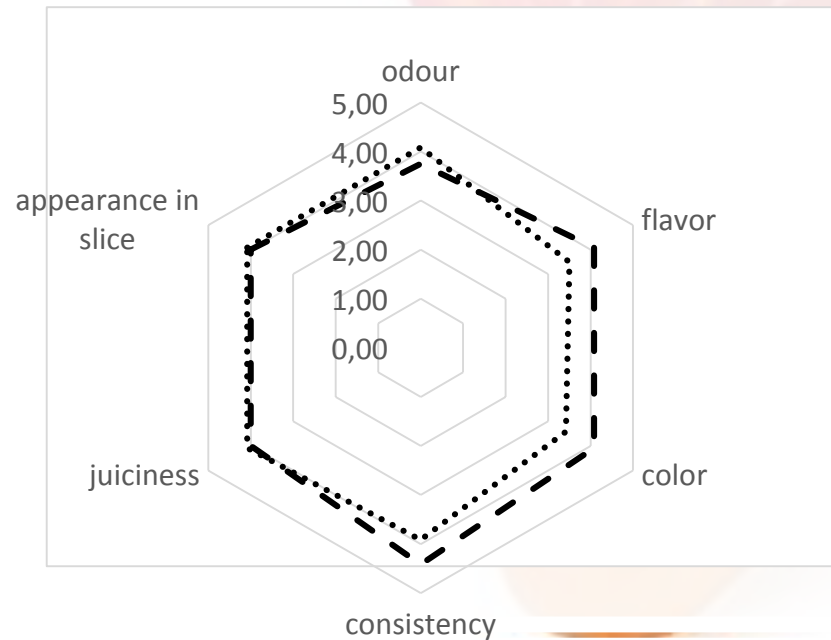
- Similarity of composition



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- Visegrad Fund
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# Result 'Spišské párky'

- Sensory and analytical evaluation



..... 195/16    - - - 196/16



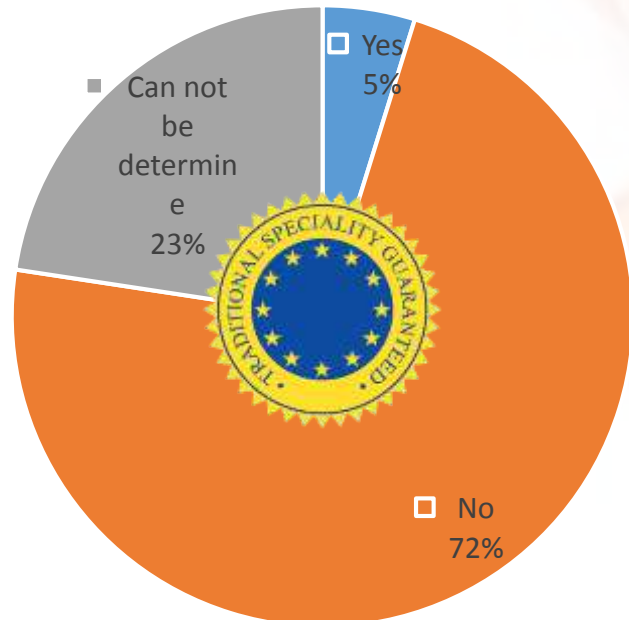
Visegrad Fund

Sample	Marked as TSG	Chemical analysis				Histological analysis				
		Dry matter	Fat w	Protein e	Salt	Starch	Hydrocolloid	Bone fragment	MSM	paprika
195/16 Spišské párky	Yes	35,94	18,77	13,24	1.81	No	Yes animal protein	0	No	yes
196/16 Spišské párky	Yes	40,05	20,22	15,70	2.03	Yes	Yes	0,69	dubious	yes
Legislative limits		NA	max. 24±4 %	min. 10 %	max. 2±0.4 %	No	No	NA	No	Sweet and hot paprika



# Result 'Špekáčky'

- Similarity of composition

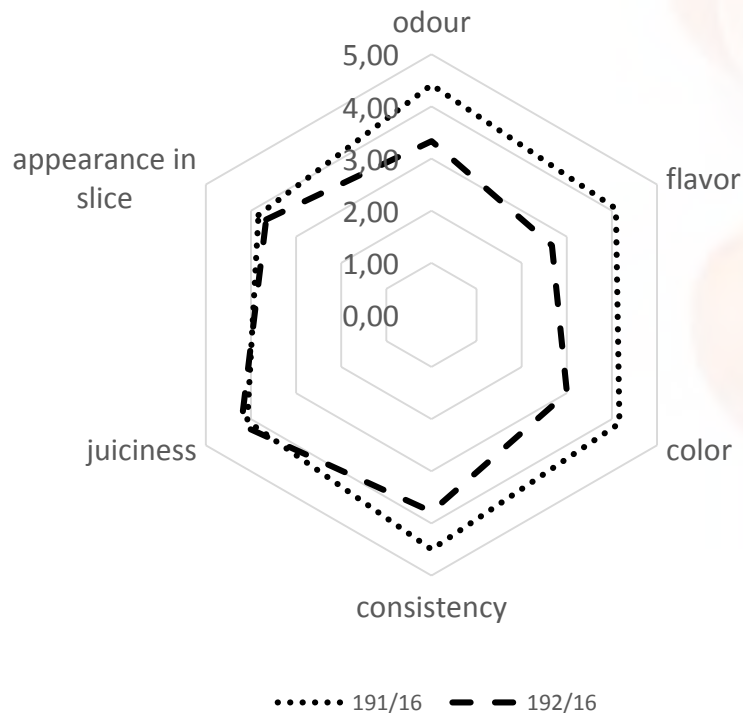


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- Visegrad Fund
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# Result 'Špekáčky'

- Sensory and analytical evaluation

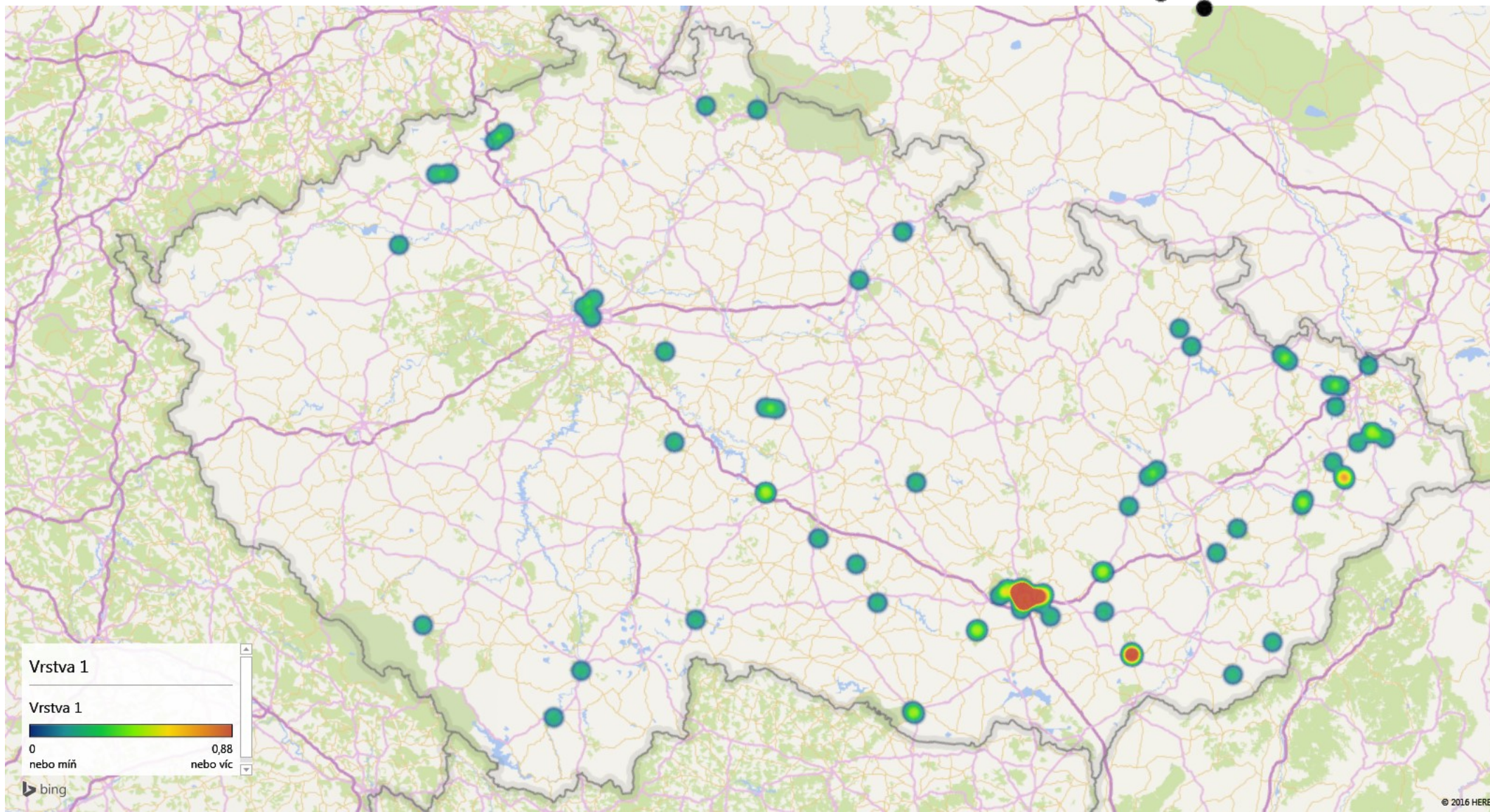


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Visegrad Fund

Sample	Marked as TSG	Chemical analysis				Histological analysis				
		Dry matter	Fat w	Protein e	Salt	Starch	Hydrocoloi d	Bone fragmen t	MSM	Red paprika
191/16 Špekáčk y	Yes	49,41	32,16	11,92	2.07	Yes	No	1,66	<b>Yes</b>	Yes
Legislati ve limits		NA	max. 45%	min. 6 %	max. 2,5 %	max. 2,5%	No	NA	No	NA
192/16 Špekáčk y	No	49,25	33,70	11,58	1.86	Yes	Yes soy protein	1,08	<b>dubio us</b>	Yes
Legislati ve limits		NA	max. 45%	NA	NA	NA	NA	NA	No	NA

# Czech market research

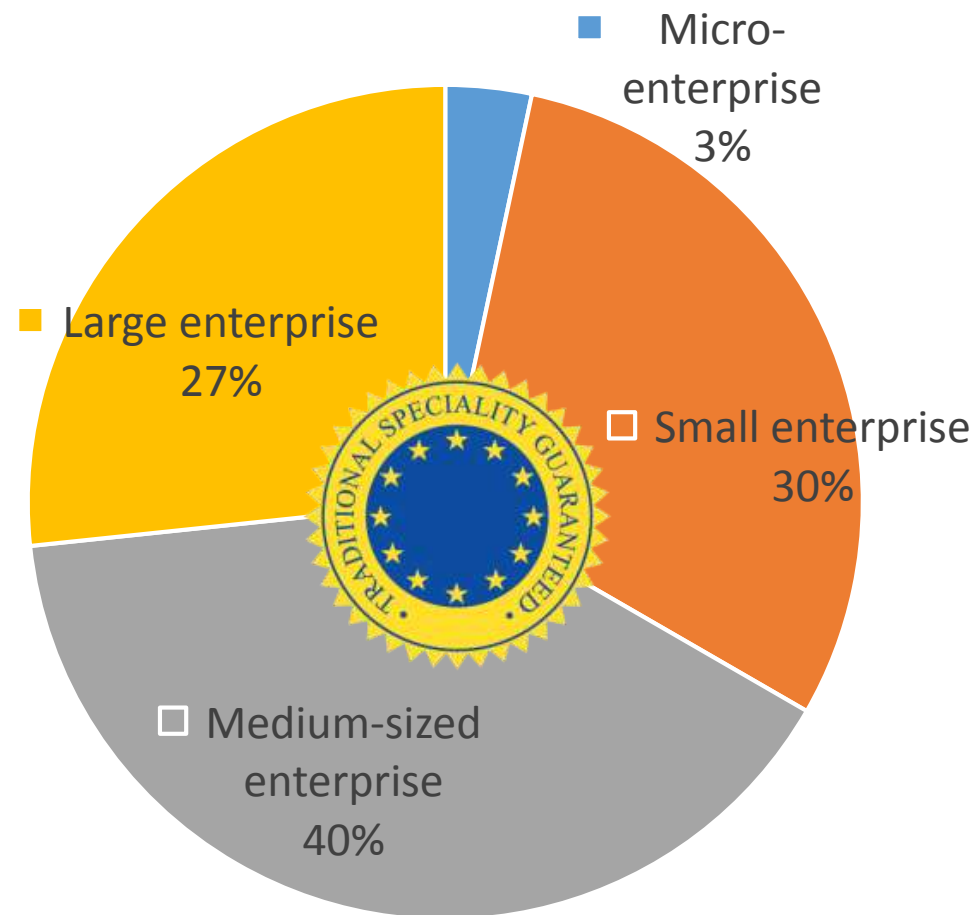
- 
- Visegrad Fund
- 
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# Czech market research



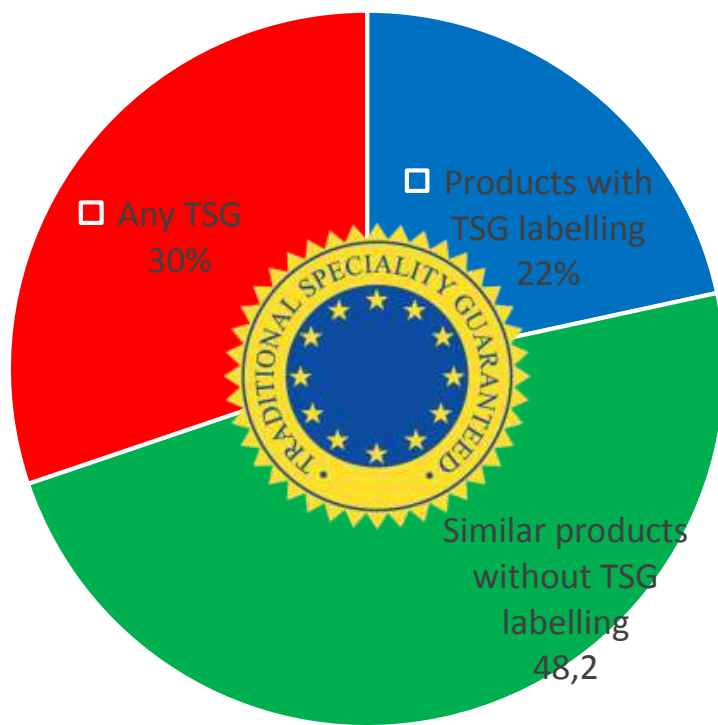
- 30th TSGs producers



# Czech market research



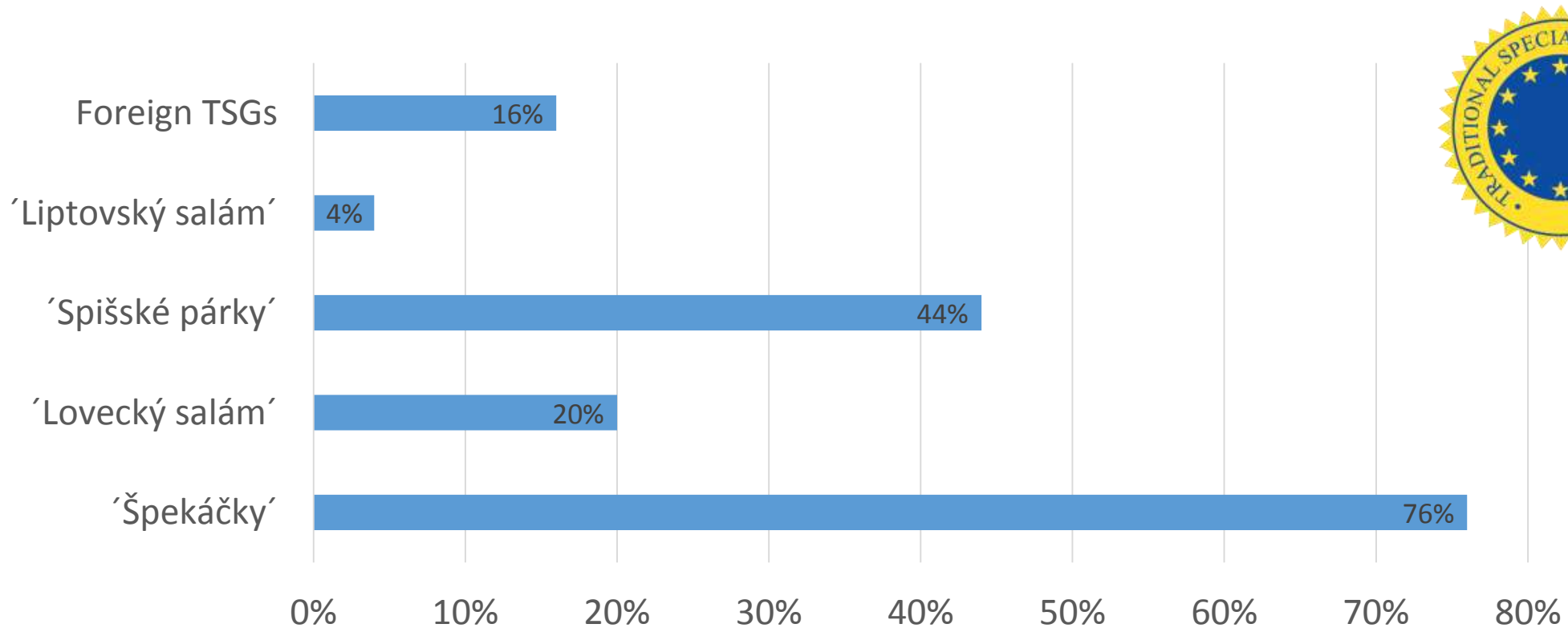
- Spread TSGs and national product in Czech market



# Czech market research

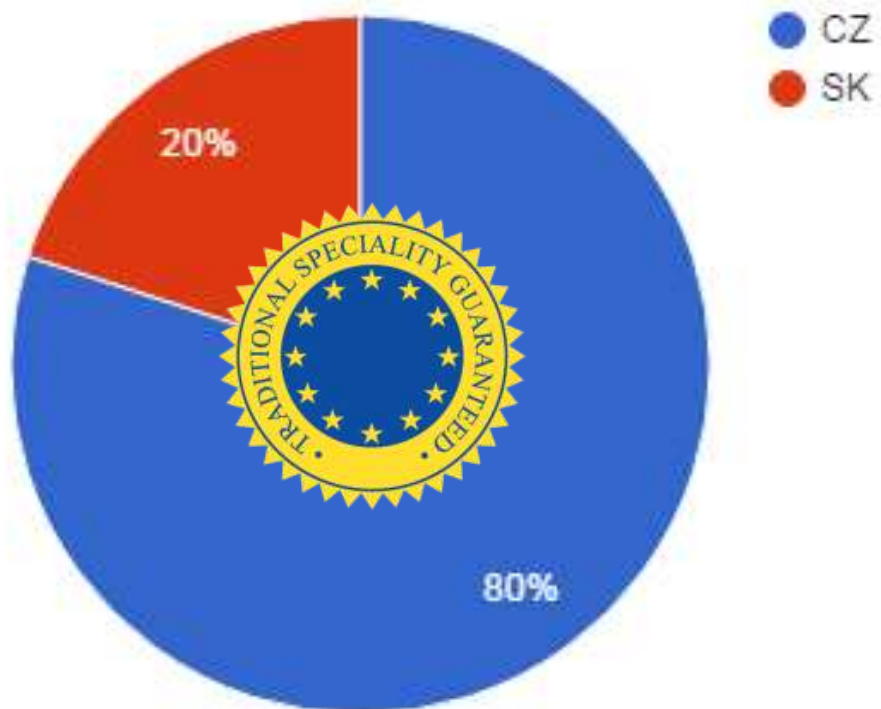


- Diversity of TSGs product **with TSGs logo** in Czech



# Czech market research

- Country of origin of TSGs product in Czech



• Visegrad Fund

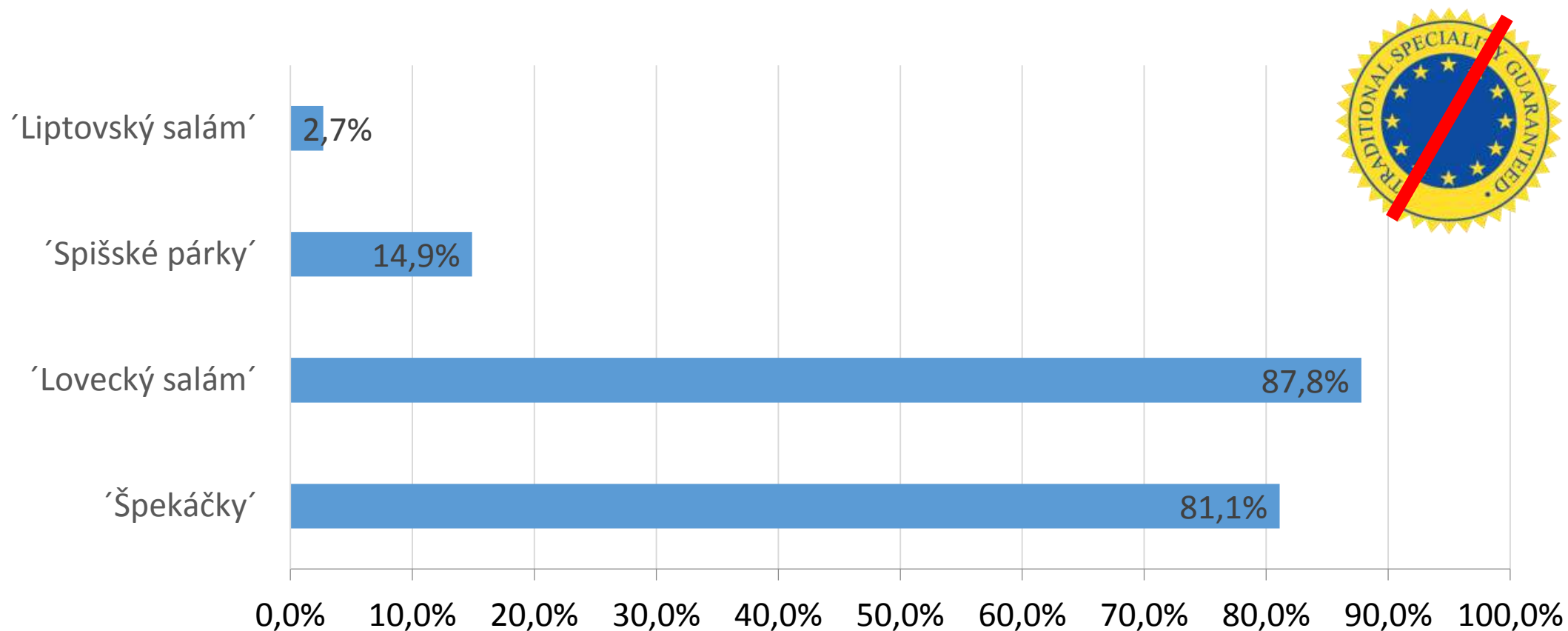
Spanish Serrano

Hungarian Czubay

# Czech market research



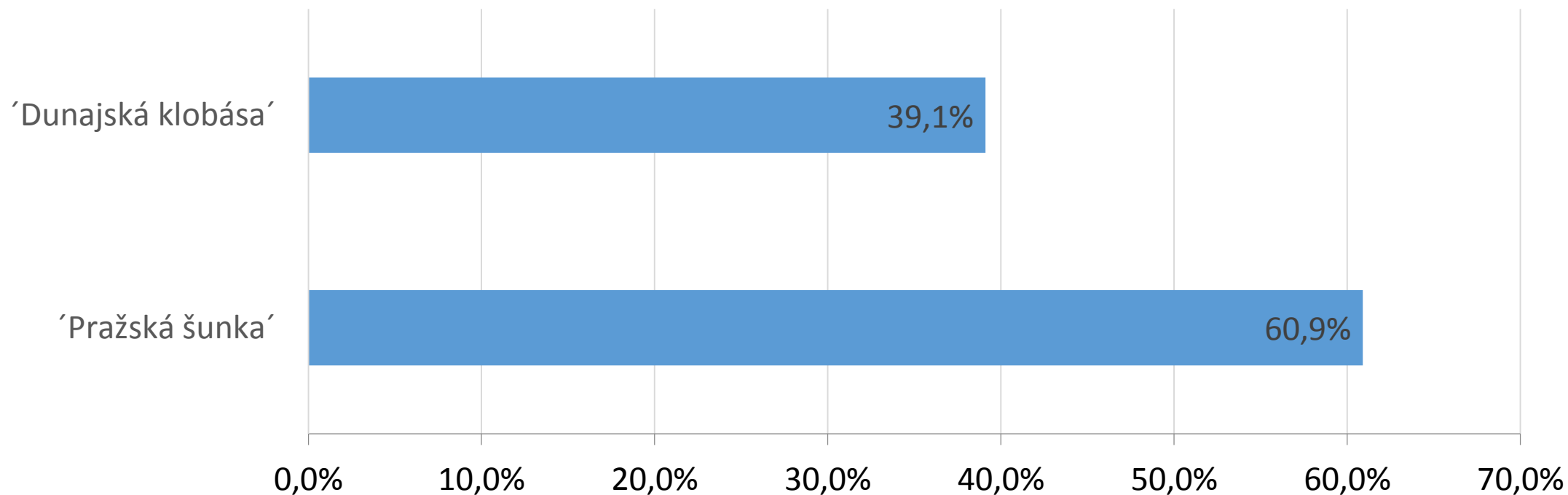
- Diversity of TSGs product **without logo** in Czech



# Czech market research



- Diversity of the national product in Czech

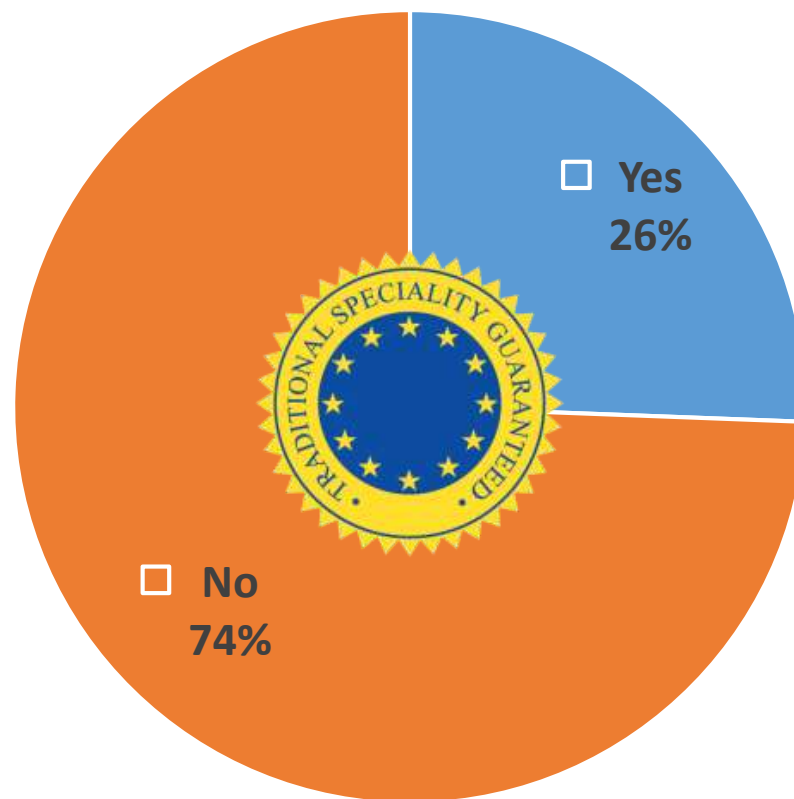




# Czech market research



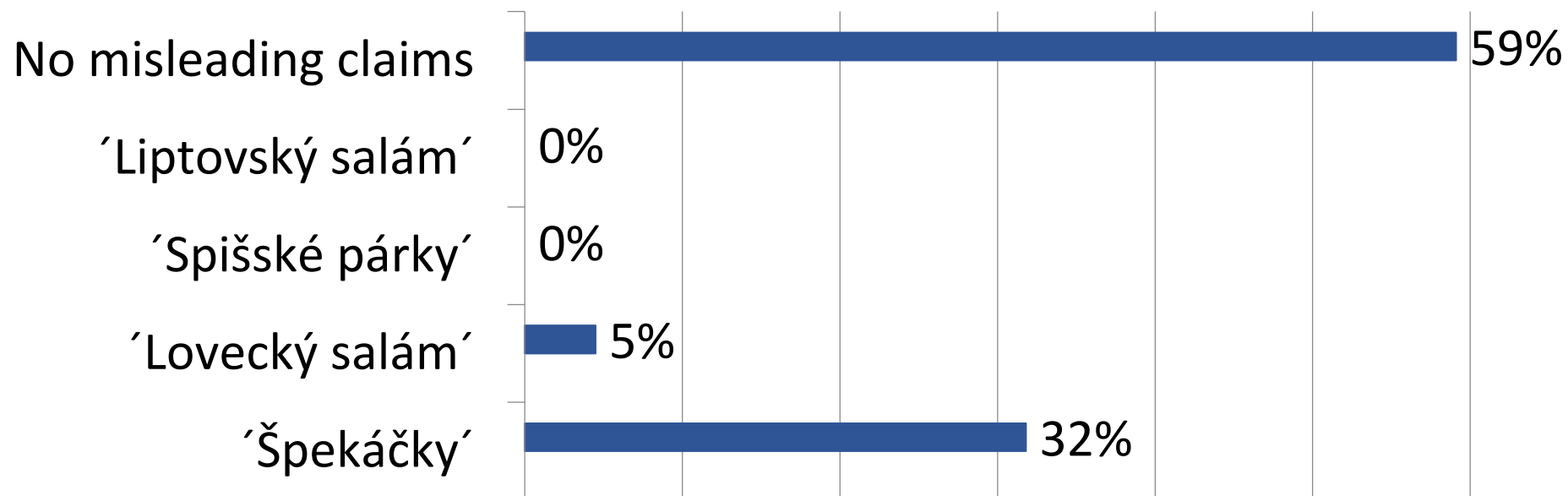
- Informed shop assistant Czech



# Czech market research

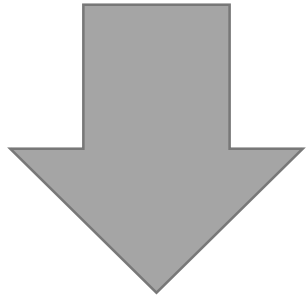


- Misleading product in Czech Republic



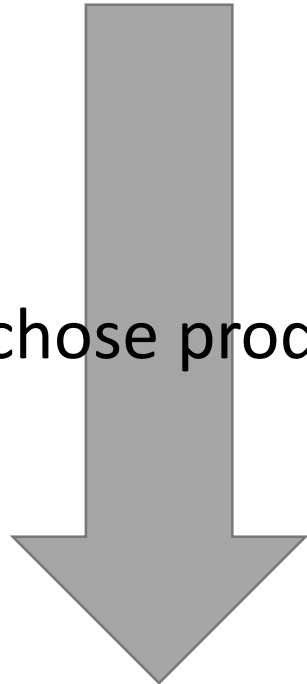
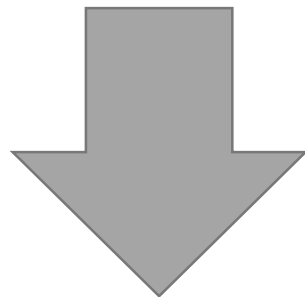
# Conclusion

producers preferred TSGs product without EU Logo



economical benefit

difficulty for consumers to choose product with same (top) quality



lowend product with the same name as TSGs

degradation of traditional and national product from V4 country

Thank you for attention

Special thank to:



Visegrad Fund

Student of 3th FVHE master program

Project webside <http://cit.vfu.cz/tsgs/>  
[mpospiech@vfu.cz](mailto:mpospiech@vfu.cz)

