"Food Quality Labels:
Do they matter for consumers?
Empirical results from
a pan-European study
and policy recommendations"













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Newcastle University Business School



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Research Associate and Strength2Food Project Manager
Newcastle University



FOOD QUALITY
FOR SUSTAINABILITY
AND HEALTH

## Strength2Food Webinar:

Food Quality Labels: Do they matter for consumers? Empirical results from a pan-European study and policy recommendations

19 September 2019 at 10 CEST, Bonn, Germany

In cooperation with University of Bonn, the European Food Information Council and Newcastle University

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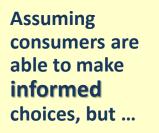
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# Agenda

- 1. Labels as a Solution for the Lemon Problem
- 2. Strength2Food: Two Pan-European Surveys
  - a. What Do Consumers Care About?
  - b. Are Labels Effective in Informing Consumers?
  - c. Can We Improve Label Perception?
- 3. Policy Recommendations

#### 1. Labels as a Solution for the Lemon Problem







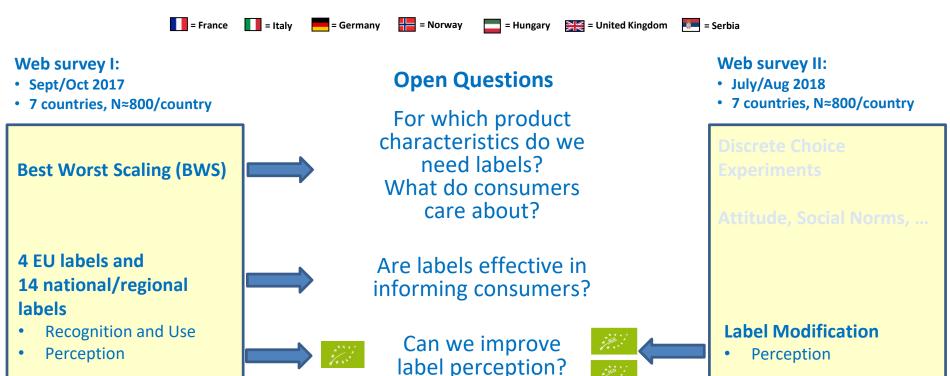
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- Information is characterized by a high degree of asymmetry (e.g. organic, animal friendly production, regional)
- Information search is costly (time, effort, money) even in times of Web 2.0<sup>1</sup>

# Food Quality Labels as a means to ease informed choice



# 2. Strength2Food: Two pan-European Surveys



# 2. Strength2Food: Two pan-European Surveys

= France = Italy = Germany

= Norway

= Hungary

= United Kingdom

= Serbia

#### Web survey I:

- Sept/Oct 2017
- 7 countries, N≈800/country

**Best Worst Scaling (BWS)** 

For which product characteristics do we need labels? What do consumers care about?





### What Do Consumers Care About?

Country	Product 1		
France			
Germany			
Hungary			
Italy	Cheese		
Norway			
Serbia			
UK			

#### **Best Worst Scaling**



6 choice sets

2b. How important are the following criteria for you when buying *cheese*?

From the following five criteria please indicate which one is the <u>Least Important</u> and which one is the <u>Most Important</u> for you? You may click on the criterion to obtain more information.

Least Important	Criteria	
0	My knowledge of the producer	0
•	Brand	0
0	Product's region of origin	0
0	Fair trade	0
0	Nutritional value of the product	9

Each choice set
5 attributes

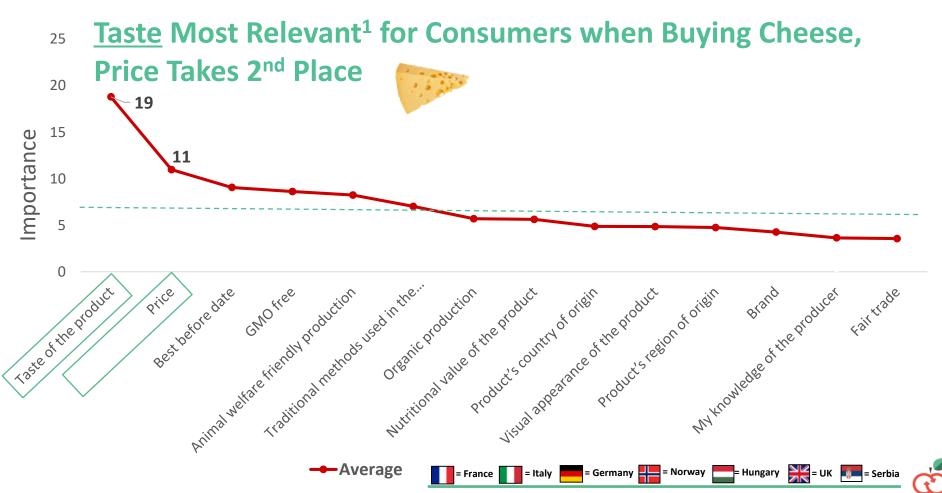




# **What Do Consumers Care About?**

Country	Product 1	Product 2	Product 3	
France		Fresh meat	Fresh fruits	
Germany		Processed vegetables	Fresh vegetables	
Hungary		Processed meat	Fresh vegetables	
Italy	Cheese	Processed meat	Fresh vegetables	
Norway		Fresh fish	Fresh fruits	
Serbia		Processed meat	Processed vegetables COLDEN	
UK		Fresh meat	Fresh fish	

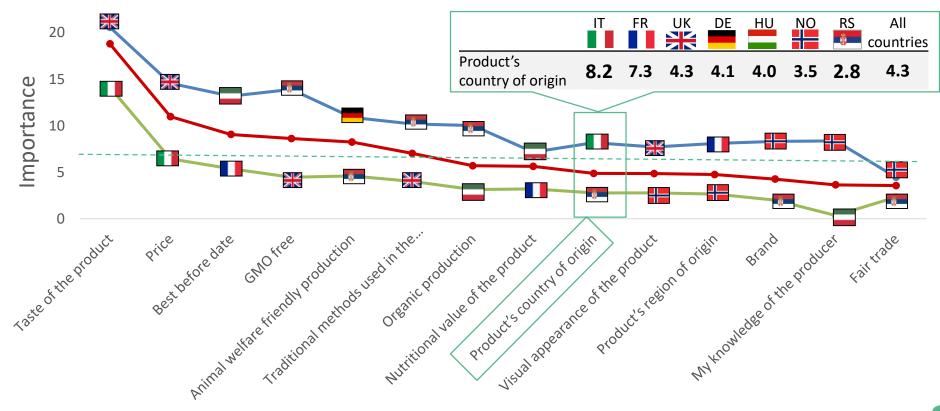




# **Considerable Differences in Attribute Importance**<sup>1</sup> **Between Countries when Buying Cheese** 25 20 15 Importance 10 0 **→**Most Average Least = Norway = Hungary

# High Relevance<sup>1</sup> of Country of Origin in Italy and France



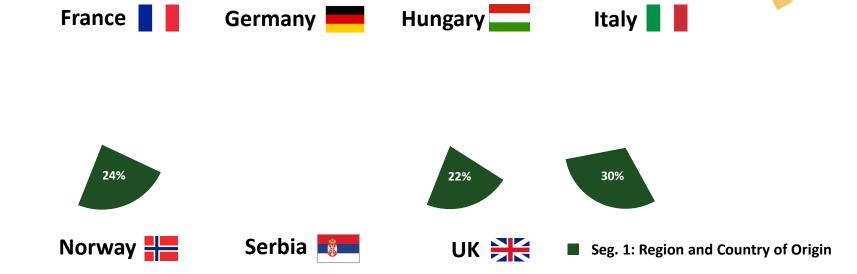


→ Most → Average

**—**Least

25

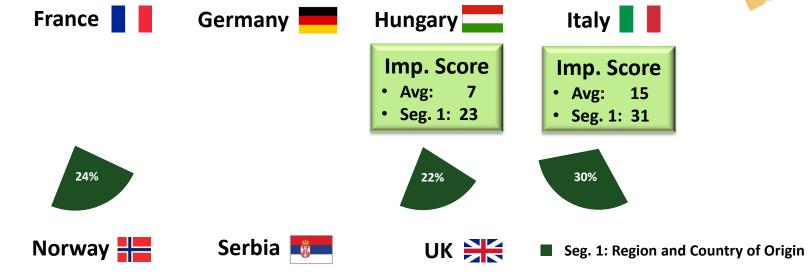
# Segments with Similar Preferences<sup>1</sup> Across Countries though ...





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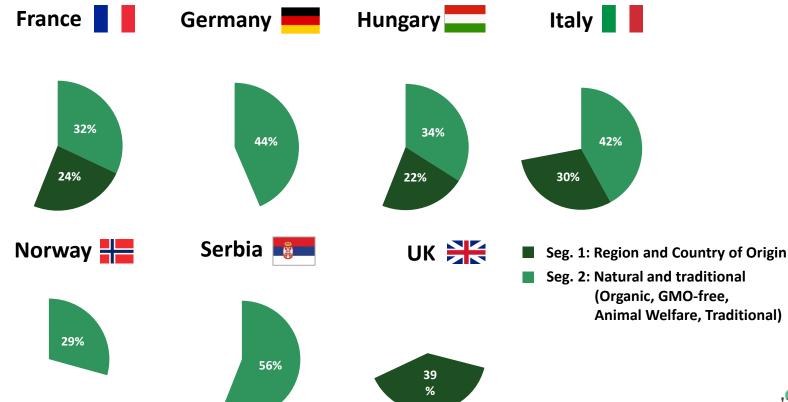
... Size of Segments and Absolute Attribute Importance Differs





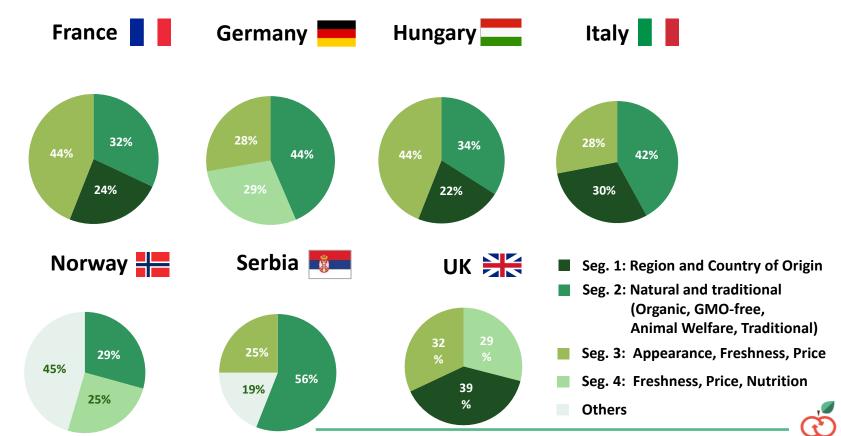
# Segments with Similar Preferences<sup>1</sup> Across Countries





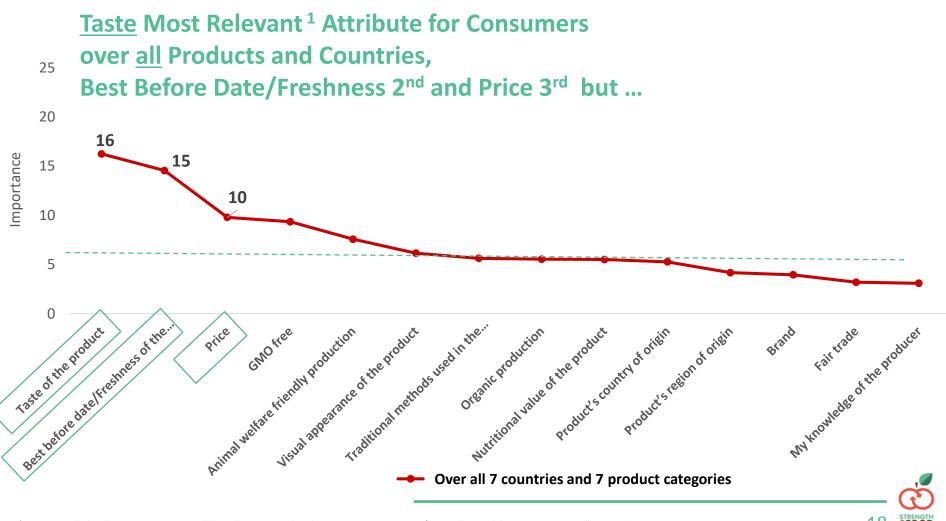
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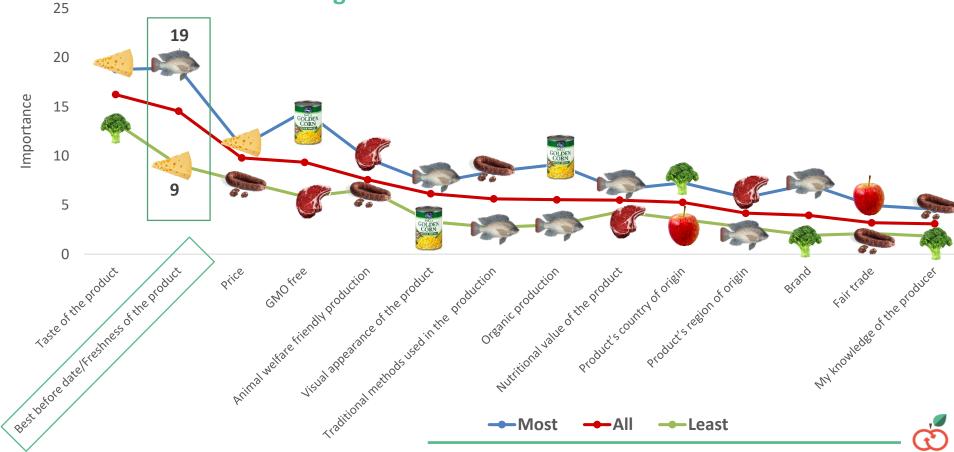


# **What Do Consumers Care About?**

Country	Product 1	Product 2	Product 3	
France		Fresh meat	Fresh fruits	
Germany	Cheese	Processed vegetables	Fresh vegetables	
Hungary		Processed meat	Fresh vegetables	
Italy		Processed meat	Fresh vegetables	
Norway		Fresh fish	Fresh fruits	
Serbia		Processed meat	Processed vegetables CONTROL	
UK		Fresh meat	Fresh fish	



## ... Considerable Differences in Attribute Importance Between Product Categories<sup>1</sup>



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## **What Do Consumers Care About?**



# **First Conclusions**

- Product taste most important attribute for consumers, price often 2nd
- Relevance of other attributes depends on product type and country
- Considerable differences in consumers' preferences between countries
- But existence of segments with similar preferences over countries
  - Traditional and natural products (e.g. organic, GMO free)
  - National and regional products



High Degree of Information Asymmetry Food Quality Labels Important

# 2. Strength2Food: Two pan-European Surveys

= France = Italy

= Germany

= Norway

= Hungary

= United Kingdom

= Serbia

#### Web survey I:

- Sept/Oct 2017
- 7 countries, N≈800/country

4 EU labels and 14 national/regional labels

- Recognition and Use
- Perception

Are labels effective in informing consumers?





# **Are Labels Effective in Informing Consumers?**

#### **4 EU Labels**



PDO (Protected
Designation of Origin):



PGI (Protected Geographical Indication):



TSG (Traditional Speciality Guaranteed):



Organic



Recognition and Use Perception

#### 14 National/Regional Labels







**France** 



















Hungary





Serbia

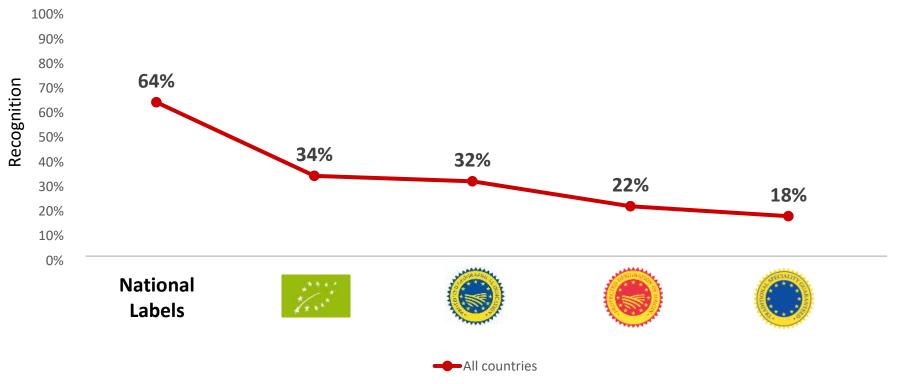


#### Do you recognize this label?

O Yes

○ No

#### Low Overall Recognition of EU Food Quality Labels Compared to National Labels









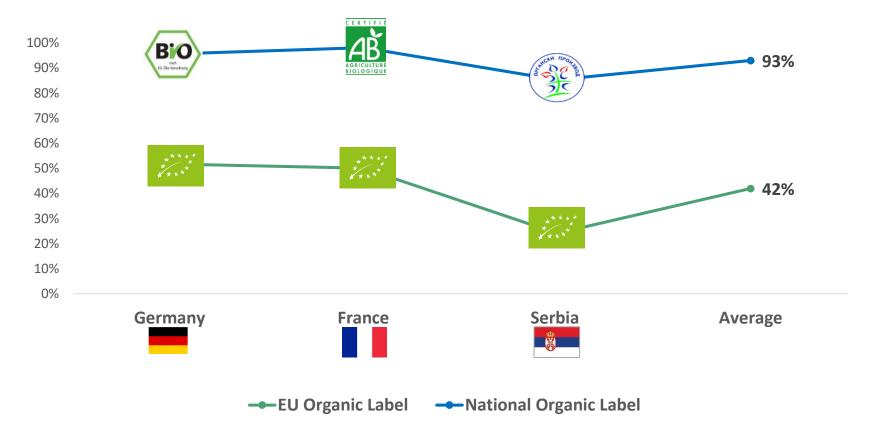




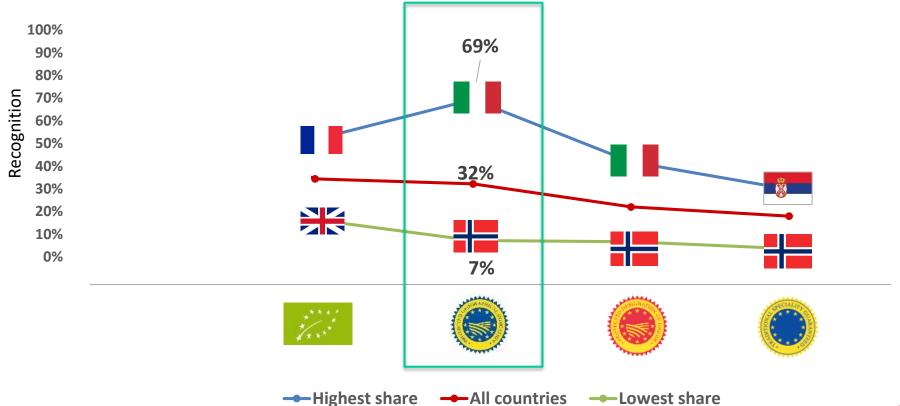




#### Difference in Recognition also Between EU and National Organic Label



#### Considerable Differences in Recognition of EU Labels by Country and ...











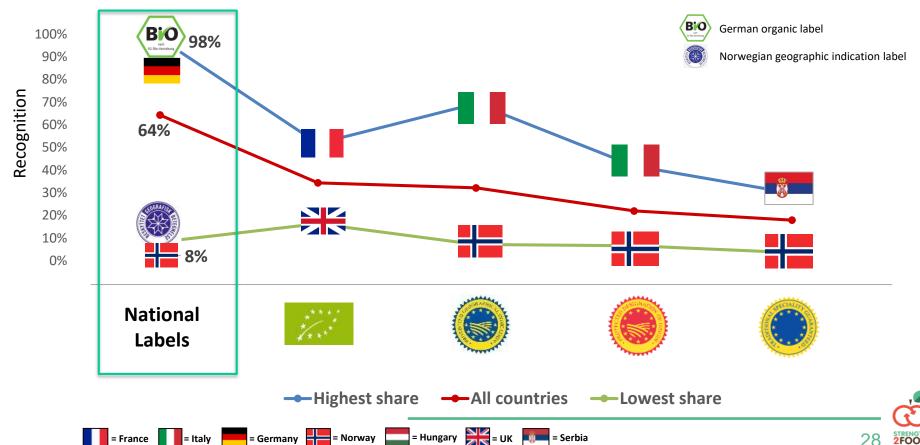








### ... also Considerable Differences in Recognition of National Label

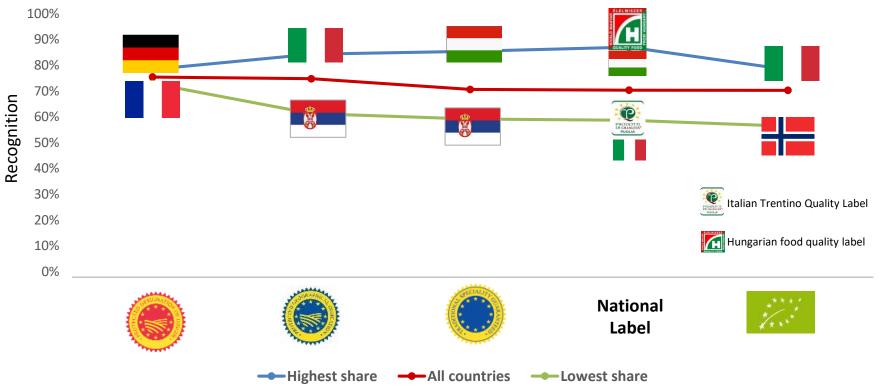


# How Many of Those Recognizing a Label at Least Sometimes Use it when Doing their Grocery Shopping?

To what extent do you take this label into account when you do your grocery shopping?

	Never	Almost never	Sometimes	Almost every time	Every time
****	0	0	0	0	0

# About 70% of Those Recognizing a Label Take the Label at Least Sometimes into Account when Doing Their Grocery Shopping



= Germany ==== Norway === Hungary === UK === Serbia

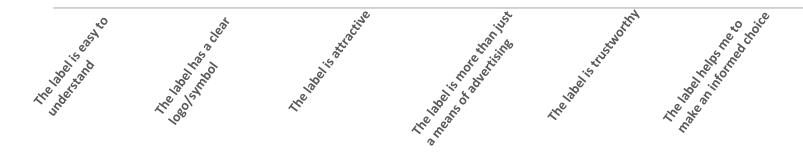


# **Measuring Perception of a Label ...**

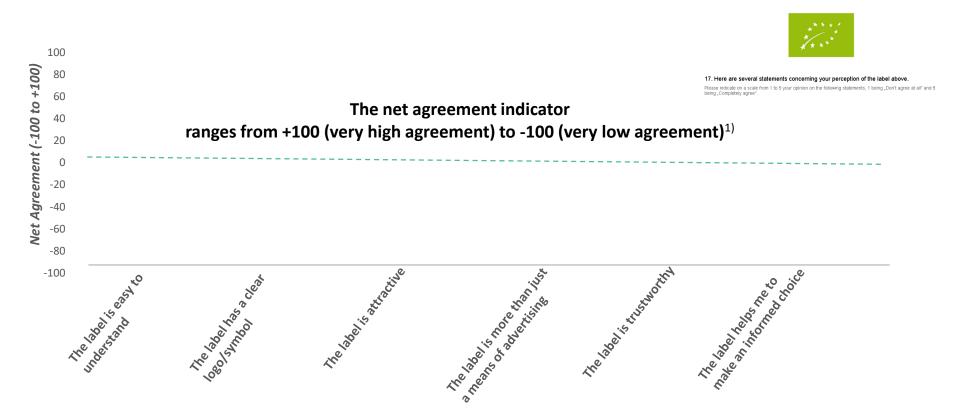


#### 17. Here are several statements concerning your perception of the label above.

Please indicate on a scale from 1 to 5 your opinion on the following statements, 1 being "Don't agree at all" and 5 being "Completely agree".

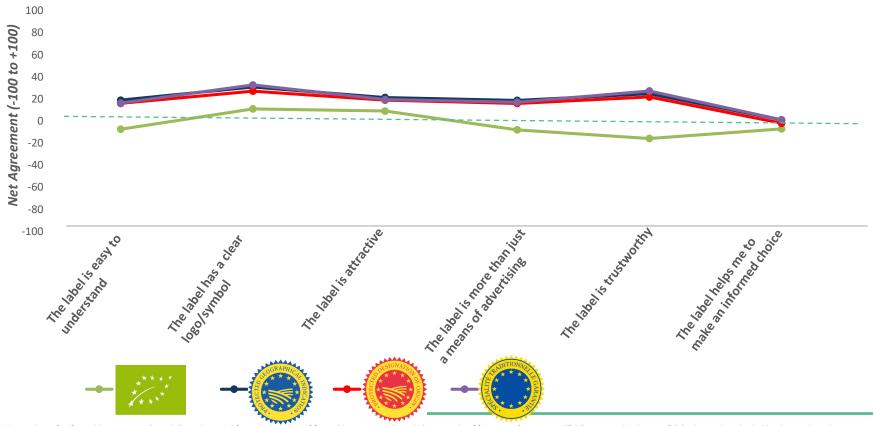


## Measuring Perception of a Label with Net Agreement Scale



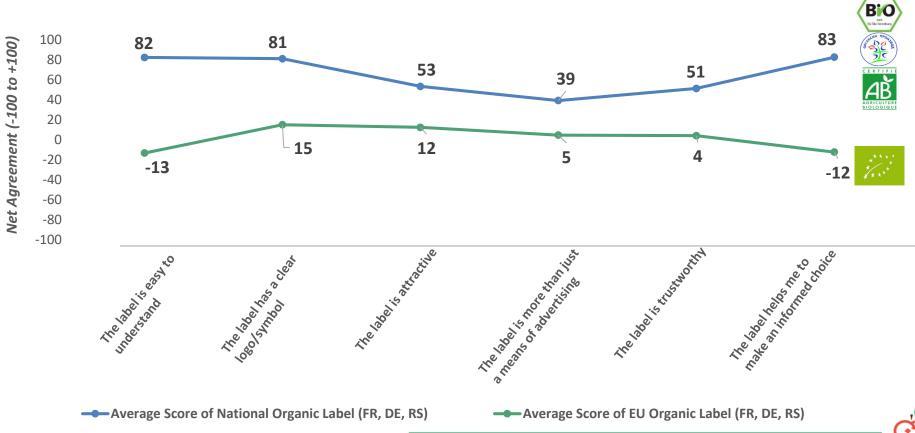


# Slightly Positive Perception of all EU Labels but the Organic Label Over All Seven Countries

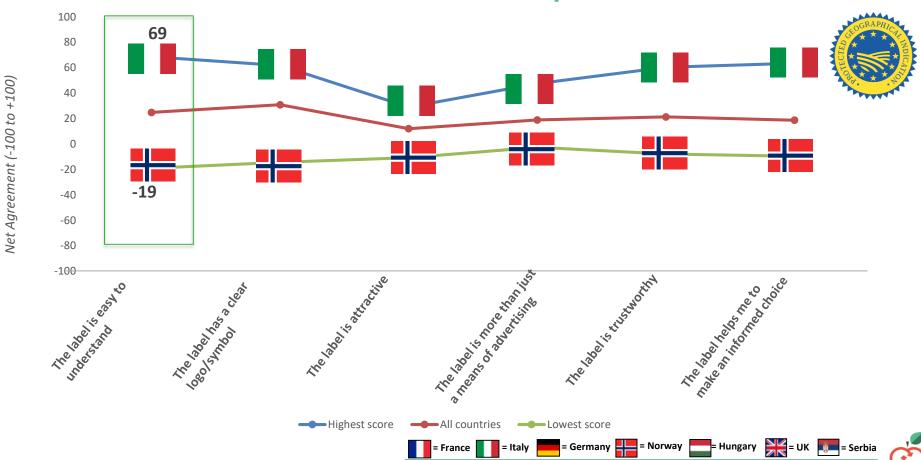




### **National Organic Labels are in Contrast Positive Perceived**

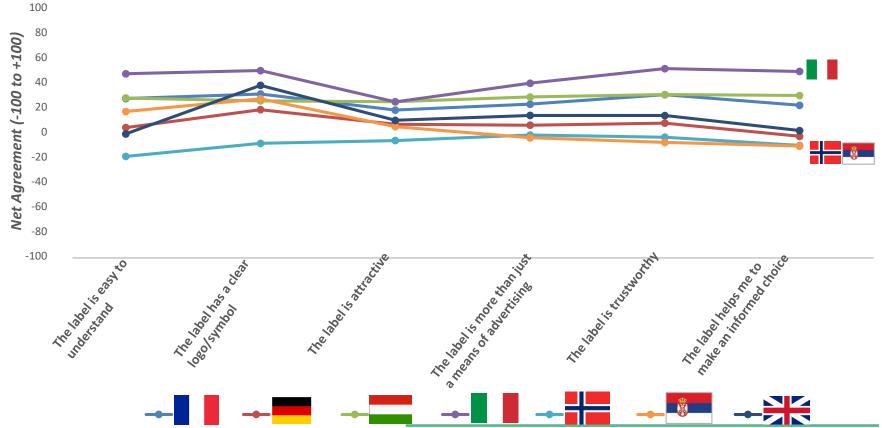


### **Considerable Differences in Label Perception Between Countries**



The number of unfavorable responses (1 and 2) is subtracted from the number of favorable responses (4 and 5) on a scale of from "Don't agree at all" (1) to "Completely agree" (5). The result is divided by the total number of responses and multiplied by 100. The net agreement indicator ranges from +100 (very high agreement) to -100 (very low agreement) (Roselius, 1971).

## More Positive Perception in Italy and a More Negative One in Norway and Serbia over all EU Labels



#### National Labels on Average More Positive Perceived Though Considerable Differences Between National Labels



### **Are Labels Effective in Informing Consumers?**



#### **First Conclusions**

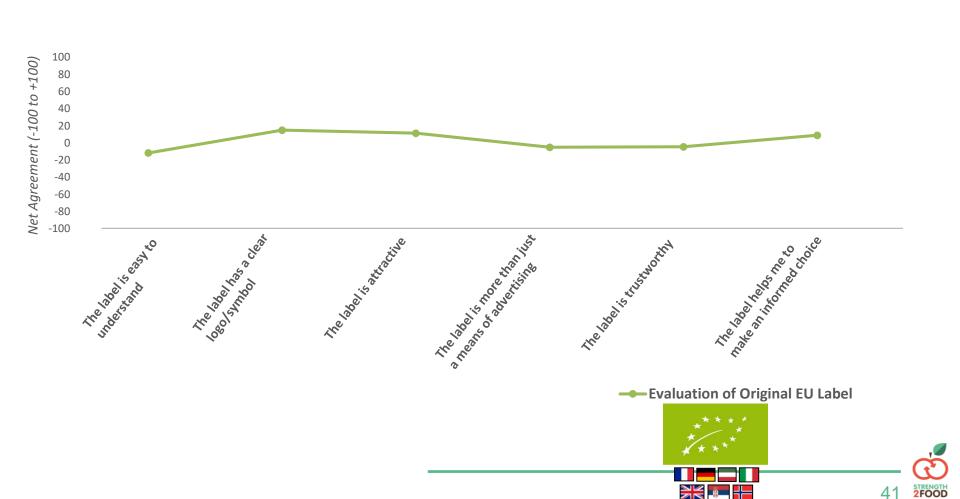
- Recognition high for most of the national labels and low for EU labels
  - high heterogeneity between EU countries
- Most of those who recognize a label use it at least sometimes
- High heterogeneity in perception of food quality labels
  - More positive for national compared to EU Labels
  - More positive especially in Italy compared to other countries
  - Among EU food quality labels perception is least positive for the organic label



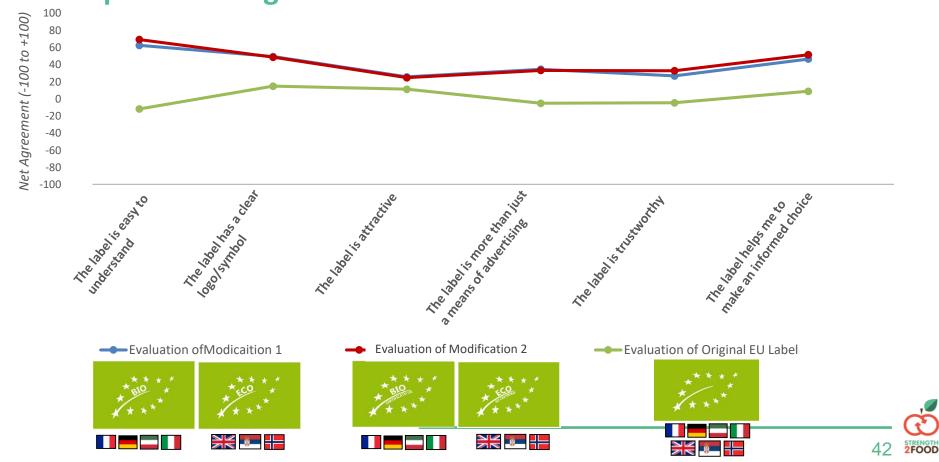
Can we Improve the Perception of the Organic Label by Modification?

### 2. Strength2Food: Two pan-European Surveys

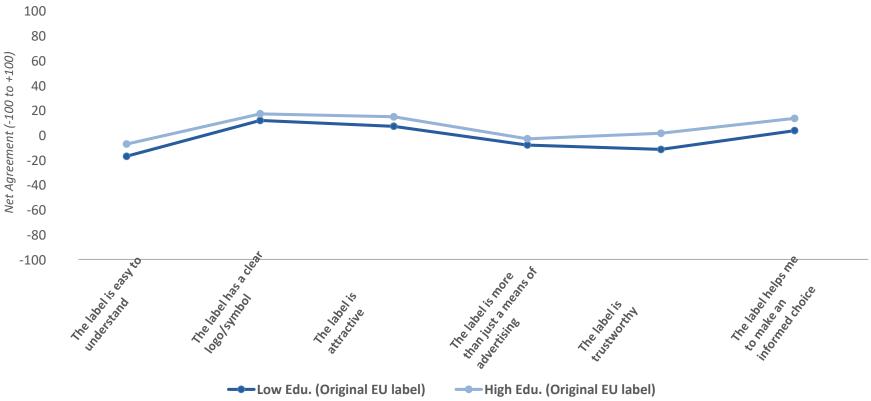




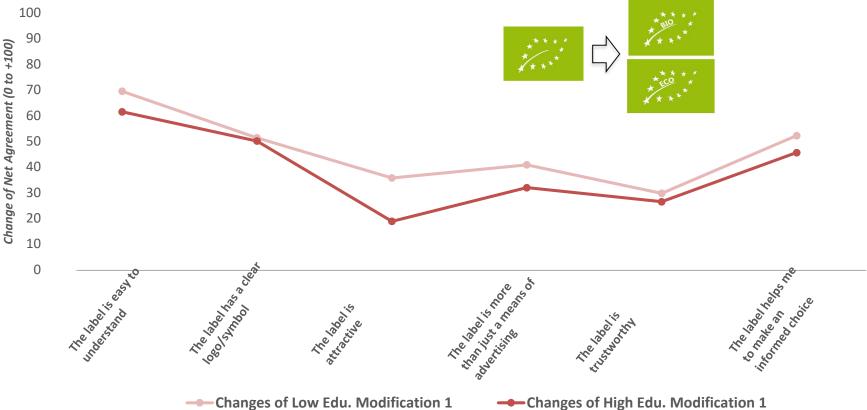
# **Both Modifications of the EU Organic Label Improve Perception Compared to Original Label**



# **Lower Educated Consumers Perceive Original EU Label Less Positive Compared to Higher Educated Consumers**

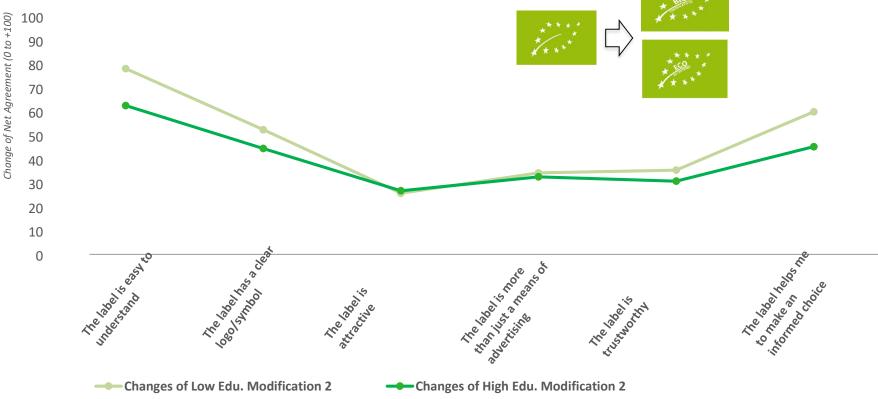


## **Modification 1 Improves Perception Especially for Lower Educated Consumers**





Also Modification 2 Improves Perception More for Lower Educated Consumers But only Slightly



#### Can we improve label perception?

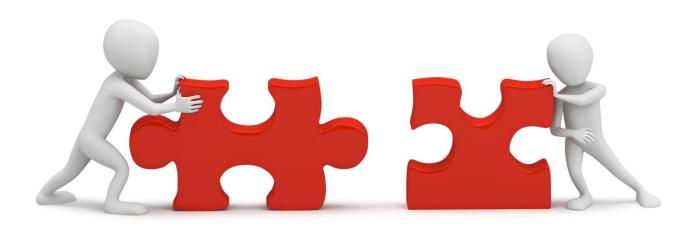


### **First Conclusions**

- A slight modification of the EU organic label is effective in improving consumers' perception
  - ► Holds for both tested modifications
  - Effect of label modification is especially for modification 1 stronger for those respondents that are less educated

#### What can we learn from this?

### **Policy Implications**



### **Policy Implications**

- Well-designed communication campaigns are needed as a tool to raise consumer awareness of EU Food Quality labels
- Particularly for labels such as the EU organic one, which is far from self-explanatory, a modification should be considered
  - It has the potential to increase consumers' understanding and trust in the label
  - It seems especially supportive for lower educated consumers





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#### Your Questions Are Welcomed

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