ActinPak

COST Action FP1405

Active and intelligent fibre-based packaging – innovation and market introduction

The perception of packaging

innovations in Slovakia

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The Department of Marketing, Trade and World Forestry:

- established in 1997 at The Faculty of Wood Science and Technology,
- research is focused to use eco-innovation aspects in packaging from the customers' perspective with a potential of wood based products usage,
- evaluation various areas that include eco-innovative aspects, and focus on the evaluation of the perception of innovation of main functions of packaging.









FACULTY OF WOOD SCIENCES AND TECHNOLOGY

Packaging industry in Slovakia

Smurfit Kappa - Packaging Štúrovo, inc. – one of the leaders in Slovakia:

- Smurfit Kappa has walked away with five of the most prestigious design awards from the internationally recognised Red Dot Award for Communication Design and for protective Wings' packaging solution,
- from over 17,000 entries from 46 different countries.







Companies should:

 monitor changes in consumers taste when choosing their marketing and packaging,

 pay attention and connect it to the new technology of packaging.



The aim:

• the perception of innovations of packaging functions by the Kano model in terms of the functions in Slovakia.





Methodology

The principal method of the research for the perception of packaging innovations in terms of the functions is a method of the Kano model.

The responses are subsequently evaluated by two-factor analysis based on age categories. Based on the Kano model, the findings were included in the following categories according to how respondents perceived new packaging: Answer to the Dysfunctional Question

other

Do not

"Other" responses are ignor

Acceptable

R: Reverse Evaluation 5: Skeptical (considered to reflect a mistake)

Like

Acceptable

Answer to

Functional the Question

No Feeling

Must-be Do not like

Legena: 0: One-dimensional Evaluation

R: Reverse Evaluation

A: Attractive Evaluation N: Nust-be Evaluation 1: Indifferent Evaluation

Other

like

M - are obligatory requirements that customers consider as normal and are automatically expected.

O – are *one-dimensional requirements* that are represented by those product attributes that lead to fulfillment and satisfaction in the event of non-compliance to customers dissatisfaction

A – are *attractive requirements* that have a clear impact on customers satisfaction because it is a requirement that customers did not expect.

R – are contradictory or reverse requirements.

I – are requirements which do not have *any influence* on customers.

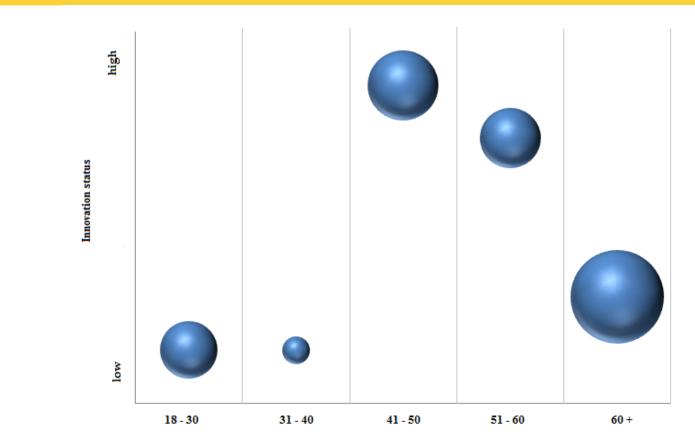
S – are *skeptical requirements*.



The calculation for the assembly nut typology

Ages	18-30		31-40		41-50		51-60		61+	
Handling function	I	0	R	-1	А	2	0	1	A	2
Protective function	I	0	0	1	0	1	0	1	I	Ο
Informative function	l I	0	l I	0	0	1	0	1	l I	0
Economic function	I	0	I	0	I	0	0	1	l I	0
Ecological function	0	1	0	1	А	2	0	1	I.	0
Promotional function		0	I	0	I	0		0	I.	0
Social function	l I	0	l I	0	- I	0	l.	0	l I	Ο
Innovation status	1		1		6		5		2	
Handling function	48	0	48	-1	28	2	56	1	48	2
Protective function	52	0	36	1	44	1	32	1	44	0
Informative function	52	0	40	0	36	1	32	1	72	0
Economic function	52	0	48	0	48	0	56	1	25	0
Ecological function	32	1	36	1	40	2	24	1	64	0
Promotional function	60	0	36	0	44	0	56	0	52	0
Social function	68	0	64	0	64	0	48	0	44	0
Size impact	32 %		8 %		54%		40%		96%	

Matrix of typology of perception of packaging innovations in terms of their functions by respondents



Ages



Conclusion

•the differences in the perception of the innovation of packaging functions in various categories are significant,

•the majority of respondents agree that the packaging should be **ecological** and should meet the **informative** and **protective** functions.



SUES STUDIA UNIVERSITATIS ECONOMICS SERIES "Vasile Goldiş" Western University of Arad DE GRUYTER THE PERCEPTION OF RESPONDENTS OF PACKAGING 10.1515/sues-2016-0013 Erika Loucanova Maruna Kalamarova Technical University in Zvolen, The Faculty of Wood Sciences and Technologies, Department of marketing, trace racenty or wood Sciences and recentor martina.kalamarova@tuzvo.sk Abstract: The paper deals with the evaluation of the perception of packaging innovations in terms of their functions through the Kano model. It focuses on the evaluation of the Abstract: The paper deals with the evaluation of the perception of packaging innovations in terms of their functions through the Kano model. It focuses on the evaluation of the (Received May 2016; Accepted July 2016) in terms of their functions through the Kano model. It focuses on the evaluation of the particular on the product of innovation of all main seven functions of packaging, in particular on the product evaluation information comparison environmental error evaluation and evaluation of the packaging perception of innovation of all main seven functions of packaging, in particular on handling, protective, informative, economic, environmental, promotional and ecological and ecological. handling, protective, informative, economic, environmental, promotional and ecological backaging functions. The results indicate that the target groups interested in the new interested in the new to be the set of the set packaging functions. The results indicate that the target groups interested in the new iniovative packaging are mostly in age between 41 to 60 years. These groups have the iniovative packaging are mostly in age between 41 to oU years. These groups nave the highest requirements for new packaging. The innovations of handling functions of packaging have the most significant influence on the older generation. However, almost all the second nighest requirements for new packaging. The innovations of handling functions of backaging have the most significant influence on the older generation. However, almost all ages categories positively recognize ecological innovations of packaging. Key words: innovation, packaging, functions of packaging. **Introduction** Companies should monitor changes in consumers taste when choosing their conductions and reachaning. On the other side, companies must also focus on the Companies should monitor enanges in consumers taste when encosing their marketing and packaging. On the other side, companies must also focus on the J.E.L. CODES: 031, 032 marketing and packaging. On the other side, comparines must also focus on the attention to the new technology of packaging. In the past, there was a change in allenuon to the new technology of packaging. In the past, there was a enange in design about every 15 years, but now due to the market environment, it is much design about every 15 years, but now due to the market environment, it is much more often. Because of packaging, it is also possible to reveal the relationship of more often. Because of packaging, it is also possible to reveal the relationship of the companies with the environment and nature, for example by determining whether the companies use limited or recycled materials (Pajtinkova-Bartakova, Cubining 2012). Series 2000, Balter 2004), Theorem is in the series and the s whether the companies use limited or recycled materials (Pajtinkova-Bartakova, Gubiniova, 2012; Supin, 2009, Palus, 2004). Therefore it is not only important to Cubiniova, 2012, Supin, 2009, raius, 2004). Incretore it is not only important to create packaging but also there is a responsibility of how it can be re-used, i.e. recycling. By 2030, the European Commission also recommended to increasing the recycling of material transfer to 20% and remainer of materials upsto to 20%by 2030, the European Commission also recommended to increasing the recycling of municipal waste at least to 70% and recycling of packaging waste to 80%, where a constraint for the entering and the least to 70% and recycling of packaging waste to 80%. of municipal waste at reast to 10% and recycling or packaging waste to 80%, whereas 90 % is reported for the paper, 80 % for plastics, and 90 % for wood, Studia Universitatis "Vasile Goldis" Arad. Economi ISSN: 1584-2339; (online) ISSN: 2285 - 3065

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THANK YOU FOR ATTENTION.

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