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Investigating the role of commercialization on purchase intention

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CHRONICLE	A B S T R A C T
Article history: Received December 28, 2013 Received in revised format April 15 2014 Accepted April 30 2014 Available online May 2 2014 Keywords: Commercialization Purchase intention Factor analysis	This paper presents a study to determine the role of commercialization on purchase intention in auto industry. The study designs a questionnaire in Likert scale and distributes it among some randomly selected people who lived in city of Tehran, Iran. The study investigates the effects of four factors including competitive condition, product development strategy, competitive advantage and economic growth on customers' intention to purchase. Using structural equation modeling the study has determined a positive and meaningful relationship between each four components and purchase intention. In our study, the highest impact belongs to competitive condition followed by product development strategy.

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1. Introduction

During the past few years, there have been many studies associated with commercialization of products and services around the world (Schmidt-Mohr & Villas-Boas, 2008). Ardichvili et al. (2003) constructed on existing theoretical and empirical investigations in the area of entrepreneurial opportunity identification and development. It utilizes Dubin's theory (1969) building framework to develop a theory of the opportunity identification process. It detected entrepreneur's personality traits, social networks, and prior knowledge as antecedents of entrepreneurial alertness to business opportunities. Bagchi-Sen (2007) studied the relative importance of alliances as an innovation strategy utilized by US biotechnology companies. According to Bandarian (2007), commercial potential is the opportunity of commercialization of the candidate technology.

According to Barney (1991), understanding origins of sustained competitive advantage plays essential role in strategic management. Barney (1991) examined the link between company resources and sustained competitive advantage by constructing on the assumptions that strategic resources were heterogeneously distributed across business units and that these differences become stable over time.

*Corresponding author. E-mail addresses: <u>n azad@azad.ac.ir</u> (N. Azad)

© 2014 Growing Science Ltd. All rights reserved. doi: 10.5267/j.msl.2014.5.004 Boehm and Hogan (2013) extended industrial marketing's B-2-B model by looking at public sector participants in collaborations in order to study the process of building scientific–knowledge– commercialization collaborations. They reported that retention was a catalyst for improving established collaborations to facilitate the commercialization of scientific knowledge through repeated projects. Collaborators become loyal and committed because they are in agreement with the overall relationship, commercialization service as well as quality. It is basic role that all collaborators understand each other's roles and motive as incongruities hamper the development of productive collaborations. Besides, universities require to develop a bigger appreciation of the role of satisfaction. Overall, the study explained the importance of repeat collaborations and the development of mutual advantages, which facilitate scientific knowledge commercialization. The study also showed how contextual differences influence on scientific knowledge commercialization in both Ireland and Germany.

2. The proposed study

The proposed study of this paper investigates the role of commercialization on purchase intention through the following study,

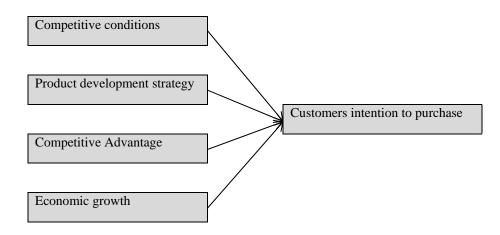


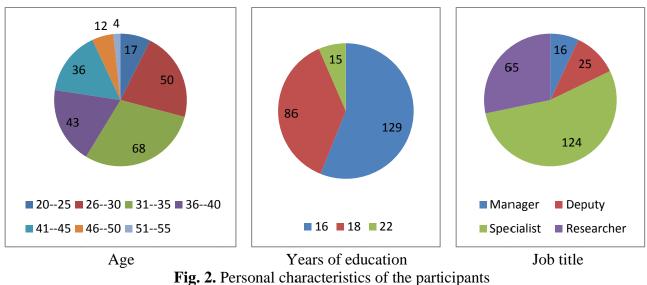
Fig. 1. The proposed study

As we can observe from Fig. 1, the study investigates the effects of four factors including competitive condition, product development strategy, competitive advantage and economic growth on customers' intention to purchase. The proposed study has been applied on regular customers in auto industry in city of Tehran, Iran. The sample size is calculated as follows,

$$N = Z_{\alpha/2}^2 \frac{p \times q}{e^2},\tag{1}$$

where *N* is the sample size, p = 1 - q represents the probability, $z_{\alpha/2}$ is CDF of normal distribution and finally ε is the error term. For our study we assume p = 0.5, $z_{\alpha/2} = 1.96$ and e=0.05, the number of sample size is calculated as N=230. The study has designed a questionnaire and distributed it among some randomly selected people. Cronbach alpha has been calculated as 0.833, which is well above the minimum acceptable level. In our survey, 67% of the participants were male and 33% of them were female and over 81% of them had, at least, 5 years of job experiences. Fig 2 shows other characteristics of the participants.

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According to the results of Fig. 2, most participants were middle aged, maintained some university education with some specialty.

3. The results

In this section, we present details of our findings on testing the effects of four factors including competitive condition, product development strategy, competitive advantage and economic growth on customers' intention to purchase using structural equation modeling technique. Fig. 2 shows details of our findings.

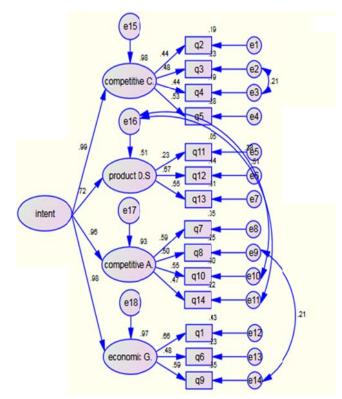


Fig. 2. The results of structural equation modeling

In our survey, all statistical observations such as GFI, RMSEA, etc. are within acceptable levels. Based on the results of Fig. 2, we may summarize our findings in Table 1 as follows,

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Table 1

The results of testing the effects of various factors on purchase intention

The results of testing the effects of various factors on parenase intention				
Variable	Factor loading	P-Value	Result	
Competitive condition	0.979	0.0001	Confirmed	
Product development strategy	0.970	0.001	Confirmed	
Competitive advantage	0.930	0.0001	Confirmed	
Economic growth	0.512	0.008	Confirmed	

Based on the results of Table 2, all four items have positive and meaningful impacts on purchase intention.

4. Conclusion

In this paper, we have presented an empirical investigation to study the effects of different factors on purchase intention in auto industry. The study has designed a questionnaire and distributed it among some randomly selected people who owned Iranian cars in city of Tehran, Iran. Using structural equation modeling, the study has confirmed that competitive condition, product development strategy, competitive advantage and economic growth influence positively on customers' intention to purchase.

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