Entrepreneurial Orientation and Innovation Capabilities in Mexican Small Business

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Abstract

In an environment of business uncertainty that has characterized the 21st century, enterprises, mainly small and medium-sized ones (SMEs), have to redirect or adequate their business strategies in order to adapt as fast as possible to the changes demanded by the market. Therefore, SMEs have to be more proactive nowadays, take higher risks and be more innovative in order to survive as well as to improve significantly their innovation capabilities in products, services and management systems. In simple terms, SMEs have to adopt and implement the entrepreneurial orientation as part of their everyday activities so they have more possibilities to increase their innovation level. Thus, the main objective of this research is to analyze the existing relation between proactivity, risk taking and innovativeness (dimensions of the entrepreneurial orientation) with the innovation capabilities (innovation in products, services and management systems). The results obtained show that there is a positive and significant relation among the three dimensions of entrepreneurial orientation and innovation capabilities.

Keywords: entrepreneurial orientation, innovation, capabilities, small business

1. Introduction

In the current literature of business and management sciences there is still a considerable debate among researchers, scholars and professionals of the business field about why some enterprises attain better results than others even when they apply the same type of business strategies (Oly & Agarwal, 2014). There is a variety of arguments that attempt to provide a convenient and logical explanation and among the most accepted ones in the literature is that only some firms obtain sustainable competitive advantages through the development of innovation capabilities and the ability for their adoption and implementation (Oly & Agarwal, 2014). Consequently, the theory of dynamic capabilities provides a theoretical explanation of why an increasing number of enterprises achieve more competitive advantages by using their resources and capabilities efficiently (Wernerfelt, 1984; Teece, Pisano, & Shuen, 1997; Eisenhardt & Martin, 2000; Makadok, 2001; Newbert, 2007; Nasution, Mavondo, Matanda, & Ndubisi, 2011).

However, and despite the importance of resources and capabilities in organizations, especially in small and medium-sized enterprises (SMEs), a high percentage of theoretical and empirical investigations published in the literature have focused in the analysis and discussion of the relation of these capabilities in big enterprises which are mostly ignored in the researches focused in SMEs (Oly & Agarwal, 2014). Therefore, the investigations about entrepreneurial orientation and innovation capabilities in SMEs are increasing in the current literature because of the importance of SMEs for the growth and development of the economy and society of any country in the world, especially in developing countries with emerging economies as it is the case of Mexico (Mueller, Rosenbusch, & Bausch, 2013).

In this regard, the existing relation between entrepreneurial orientation and innovation capabilities represent an opportunity so researchers and scholars can develop future investigations that allow them to provide theoretical and empirical evidence of the actions of entrepreneurism and the level of innovation in SMEs (Yuan, Hermens, Huang, & Chelliah, 2015). Thus, even when SMEs usually have several restrictions of resources, they are the
kind of enterprise that better react to changes demanded by the market by adopting and implementing innovation activities since SMEs usually have a lot of potential that can facilitate not only the innovation activities but also the development of an entrepreneurial orientation (Tang & Hull, 2012; Prajogo & McDermott, 2014).

Similarly, enterprises, especially SMEs, need to improve their entrepreneurial orientation as well as increase significantly their innovation capabilities in products, services and management systems in order to survive and prevail in a highly competitive business environment (Kreiser, Marino, Dickson, & Weaver, 2010). By having several limitations regarding human, technical and financial resources, SMEs depend basically on their growth, development, improvement and level of business performance of the skills they have to adopt and implement both the entrepreneurial orientation and the innovation capabilities in products, services and management systems (Mbizi, Hove, Thondhlana, & Kakava, 2013; Mazzarol, Clarck, & Reboud, 2014).

Even when there is a high percentage of theoretical and empirical investigations that link innovation capabilities with business performance of SMEs, there are relatively few investigation papers that have analyzed and discussed the existing influence between the dimensions of entrepreneurial orientation and innovation capabilities of SMEs (Yuan et al., 2015). Therefore, the main contribution of this empirical research is the analysis of the existing relation between the dimension of the entrepreneurial orientation and innovation capabilities of SMEs in a country with an emerging economy as it is the case of Mexico. The rest of the research is organized in the following parts: the second section examines the theoretical framework and the presentation of the research hypotheses; the third section shows the methodology, the sample and the variables used; the fourth section analyzes the results obtained and, finally, the fifth section shows the main conclusions and the research discussion.

2. Method

In the current literature of business and management sciences, several researchers and scholars have considered that entrepreneurial orientation adopted and implemented by SMEs is a key element that can explain the differences in innovation capabilities as well as the business performance of the firms (Knight, 2000; Jantunen, Puumalainen, Saarenketo, & Kylaheiko, 2005; Street & Cameron, 2007). Similarly, there is another group of researchers and scholars that suggest that entrepreneurial orientation is one of the most important capabilities that enterprises can have, mostly SMEs (Lumpkin & Dess, 1996; Álvarez & Busenitz, 2001; Teng, 2007). A third group claims that entrepreneurial orientation of SMEs will provide them with the necessary capabilities to produce more and better competitive advantages (Lee, Lee, & Pennings, 2001; Wiklund & Shepherd, 2003).

In this regard, the entrepreneurial orientation can be considered as an essential strategy that allows SMEs to anticipate to the changes demanded by the market and the external context of business in order to achieve better results as well as to increase the innovation capabilities of organizations (Covin & Slevin, 1991; Lumpkin & Dess, 1996). Moreover, the entrepreneurial orientation provides SMEs with the necessary capabilities and skills to use internal resources in an adequate and efficient way, including innovation, and a more efficient use of internal resources (Wiklund & Shepherd, 2003). Therefore, SMEs that have entrepreneurial orientation are more suitable to increase their innovation capabilities in products, services and management systems as well as diversify their business activities in national and international markets (Knight, 2000; Dimitratos, Lioukas, & Carter, 2004).

Likewise, several researchers, scholars and professionals of the business areas consider that entrepreneurial orientation is specifically important for SMEs for two main reasons. Firstly, because of their reduced size, SMEs usually have very limited human, financial, technical and management resources (Lu & Beamish, 2001; Brouthers, Nakos, Hadjimarcou, & Bouthers, 2009). As a result, entrepreneurial orientation provides SMEs with the necessary resources and capabilities not only to use efficiently and effectively the limited resources they have but also to improve significantly the access to additional resources that are outside the organization (Wiklund & Shepherd, 2003).

Secondly, there is only a small number of SMEs that have patents or state-of-the-art technology in their production processes but at the same time they do not have good experience in the commercialization of their products in national and international markets. They do not have enough technological experience, marketing or innovation as well as a very low offer of products and a low level of public recognition and ranking of their brands, among other main problems (Lu & Beamish, 2001; Berthon, Ewing, & Napoli, 2008). For this reason, some investigations recently published in the literature establish that entrepreneurial orientation is one of the basic capabilities that SMEs can use to improve or obtain more and better competitive advantages as well as a higher level of innovation (Lee et al., 2001; Wiklund & Shepherd, 2003).

In a more specific aspect, SMEs can increase significantly their innovation capabilities in products, services and
management systems if they are willing to explore new ideas, ways to carry out their activities or new ways to solve their problems or, in other words, the adoption and implementation of the entrepreneurial orientation (Lumpkin & Dess, 1996). Therefore, the SMEs that can create an adequate environment inside the organization for the implementation and development of an entrepreneurial orientation will have higher possibilities of increasing significantly their innovation capabilities as well as expand their commercial activities to other regional, national, and even international markets (Knight, 2000; De Clercq, Sapienza, & Crijns, 2005).

As a result, the innovation capabilities in products, services and management systems obtained by SMEs will provide them with more and better business strategies that can influence in a change in the organizational structure in a way that facilitates the elimination of barriers associated to innovation activities and the achievement of better results in enterprises (Knight, 2000). Therefore, SMEs will be more innovative when they develop more and better capabilities in their entrepreneurial orientation as well as in the adaptation of their products to the preferences and needs of their clients and consumers. This will facilitate the attainment of a higher level of business performance as well as other types of benefits such as the very survival of the SME in its market (Zahra & Garvis, 2000).

In this trend of ideas, McDougall and Oviatt (2000) concluded that entrepreneurial orientation can be defined as a combination of innovative, proactive behaviors and risk taking that organizations carry out, especially SMEs, which produce a higher value in the products created by enterprises. Thus, by adopting and implementing the entrepreneurial orientation, SMEs will have higher possibilities of creating an organizational structure that is entrepreneurial and all the members of the company will be able to be entrepreneurs which will create a synergy in their everyday activities (Echols & Neck, 1998). Consequently, the entrepreneurial orientation is usually characterized and easily distinguished by the entrepreneurial processes of risk taking (McClelland, 1961; Miller, 1983; Ndubisi et al., 2005), innovativeness (Hornaday & Abound, 1971; Dunkelberg & Cooper, 1982; Miller, 1983) and proactivity (Miller, 1983; Echols & Neck, 1998; Nasution et al., 2011).

Moreover, Miller (1983) considered that the amount of entrepreneurial orientation depends on the innovation, risk taking and proactivity that organizations have. In other words, the more risks enterprises take; the more innovation capabilities they have and the more proactive they are the higher their level of entrepreneurial orientation they will have. In a similar trend of ideas, Matsuno, Mentzer and Oszosmer (2002) concluded that the entrepreneurial orientation allows enterprises, including SMEs, to obtain better results and the necessary skills to improve their commercial and market activities which reduce uncertainty and risks. Therefore, a SME can be labeled as entrepreneurial if it is proactive to obtain more benefits than their main competitors (Oly & Agarwal, 2014), if it takes risks in decision making of the demand of the market (Barrett, Balloun, & Weinstein, 2003), and if it is innovative in the development of their activities (Dunkelberg & Cooper, 1982; Miller, 1983).

In this regard, proactivity is usually considered as the level that companies have in the development of their activities that allow them to survive in a highly changing market, especially SMEs which have important limitations of resources and investment capacity when compared with big enterprises; this limits the attainment of sustainable competitive advantages and in the innovation capabilities (Yuan et al., 2015). Thus, proactivity is the capability that SMEs have to take advantage of using their resources and innovation capabilities suitably to get more and better competitive advantages as well as different benefits that the market offers (Ireland, Kuratko, & Morris, 2006; Eggers, Kraus, Hughes, Laraway, & Snycerski, 2013).

Additionally, proactivity is also considered in the literature as one of the essential activities to achieve a higher level of innovation in SMEs since this type of entrepreneurial orientation tends to create a higher innovation capability in enterprises to fulfill the requirements and needs of consumers or the market demand (Nieto, Santamaria, & Fernandez, 2015) since the innovation of new products or processes, or the improvement of products, services and management systems, or the creation of new markets have a direct relation with the proactivity of a SME (Yuan et al., 2015). Therefore, the increase of innovation capabilities can have their origin in an adequate use of the capabilities of the entrepreneurial orientation as it is the case of proactivity (Nieto et al., 2015).

Similarly, it has been acknowledged in the literature of business and management sciences that the increase on the level of innovation in in products, services and management systems is commonly associated to the rise of the efficiency of the proactivity that organizations have, especially SMEs (Chang & Hughes, 2012). Thus, the increase of the level of innovation of SMEs does not depend only on the existence of new knowledge and learning in the organization but also the existence of several proactive capabilities, structures and entrepreneurial processes that SMEs have (Jensen et al., 2006; Chang & Hughes, 2012; Nieto et al., 2015; Saki, Shakiba, & Savari, 2013). Thus, considering the information presented above, it is possible to establish the following...
In order to prove the hypotheses established in this research, an empirical investigation was implemented by using the business directory of the Sistema de Información Empresarial de México 2014 (Business Information
System of Mexico) as a reference framework, which had 6,194, registered companies in June 2014. For practical purposes of this empirical research, the only enterprises that were considered were the ones that had between 5 and 250 employees and for this reason the directory was reduced to 1,260 SMEs and a sample of 300 SMEs was obtained. The questionnaire was designed to be answered by the managers and/or owners of SMEs and it was carried out as a personal interview to each of the 300 enterprises which were selected randomly with a sampling error of ±4.5% and a reliability level of 95%. The interviews with the managers were carried out from January to March 2015.

Similarly, a scale proposed by Miller (1983) was used to measure the three dimensions of entrepreneurial orientation. He considered that this orientation can be measured in three dimensions: proactivity (measured by means of a six-item scale); risk taking (measured by means of a six-item scale); and innovativeness (measured by means of a six-item scale). Regarding the measurement of innovation capabilities, a scale from the OECD (OECD, 2005) was considered which establishes that this aspect can be measured by means of a three-item scale; product innovation in can be measured by means of a two-item scale, processes innovation can be measured by means of a two-item scale and management systems innovation can be measured by means of a three-item scale.

All the items of the scales used in this research were measured by means of a five-point Likert scale (from 1 = Totally agree to 5 = Totally disagree) as its limits.

Likewise, in order to evaluate the reliability and validity of the scales used in the research, a Confirmatory Factorial Analysis (CFA) was carried out by using the method of maximum likelihood with the software EQS 6.1 (Bentler, 2005; Brown, 2006; Byrne, 2006). Moreover, the reliability of the scales was evaluated by means of Cronbach’s alpha and the Composite Reliability Index (CRI) suggested by Bagozzi and Yi (1988). The suggestions of Chou, Bentler and Satorra (1991) as well as of Hu, Bentler and Kano (1992) were taken into consideration regarding the correction of the statistics of the theoretical model when it is considered that the normality of data is present by using also the robust statistics in order to provide a better statistical adjustment of data (Satorra & Bentler, 1988).

The CFA results are shown in Table 1 and they indicate that the statistical adjustment of data ($S - BX^2 = 311.014; df = 199; p = 0.000; NFI = 0.901; NNFI = 0.955; CFI = 0.962; RMSEA = 0.043$). All the items of related factors are significant ($p < 0.01$). The size of all the standardized factorial loads are above 0.60 (Bagozzi & Yi, 1988). Cronbach’s alpha and CRI have a value above 0.70 and the Extracted Variance Index (EVI) has a value above 0.50 (Fornell & Larcker, 1981). These values indicate that there is sufficient evidence of convergent validity and reliability, which justifies the internal reliability of the scales used (Nunally & Bernstein, 1994; Hair et al., 1995).

Table 1. Internal consistency and convergent validity of the theoretical model

<table>
<thead>
<tr>
<th>Variable</th>
<th>Indicator</th>
<th>Factorial Loading</th>
<th>Robust $t$-Value</th>
<th>Cronbach’s Alpha</th>
<th>CRI</th>
<th>EVI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proactivity</td>
<td>PR1</td>
<td>0.675***</td>
<td>1.000$^a$</td>
<td>0.841</td>
<td>0.843</td>
<td>0.519</td>
</tr>
<tr>
<td></td>
<td>PR2</td>
<td>0.719***</td>
<td>10.836</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PR4</td>
<td>0.721***</td>
<td>11.194</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PR5</td>
<td>0.739***</td>
<td>11.223</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PR6</td>
<td>0.745***</td>
<td>11.873</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Risk Taking</td>
<td>TR1</td>
<td>0.662***</td>
<td>1.000$^a$</td>
<td>0.852</td>
<td>0.853</td>
<td>0.539</td>
</tr>
<tr>
<td></td>
<td>TR2</td>
<td>0.648***</td>
<td>8.070</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TR4</td>
<td>0.791***</td>
<td>9.130</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TR5</td>
<td>0.788***</td>
<td>9.664</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TR6</td>
<td>0.768***</td>
<td>9.477</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Innovativeness</td>
<td>IN1</td>
<td>0.716***</td>
<td>1.000$^a$</td>
<td>0.857</td>
<td>0.859</td>
<td>0.551</td>
</tr>
<tr>
<td></td>
<td>IN2</td>
<td>0.628***</td>
<td>12.555</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IN3</td>
<td>0.790***</td>
<td>12.645</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IN4</td>
<td>0.749***</td>
<td>11.307</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IN5</td>
<td>0.813***</td>
<td>14.631</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Innovation</td>
<td>IP1</td>
<td>0.826***</td>
<td>15.155</td>
<td>0.897</td>
<td>0.898</td>
<td>0.748</td>
</tr>
<tr>
<td></td>
<td>IR2</td>
<td>0.953***</td>
<td>19.726</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IG3</td>
<td>0.808***</td>
<td>11.579</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

$S - BX^2$ (df = 199) = 311.014; $p < 0.000$; NFI = 0.901; NNFI = 0.955; CFI = 0.962; RMSEA = 0.043

Note. * = Constrained parameters to such value in the identification process;
*** = $p < 0.01$.  


Regarding the discriminant validity of the theoretical model of intellectual property and innovation, the evidence is presented in two ways that can be observed in Table 2. Firstly, a reliability interval test is presented, proposed by Anderson and Gerbing (1988), which establishes that with an interval of 95% of reliability none of the individual latent elements of the matrix of correlation contains the value of 1.0. Secondly, the extracted variance test, proposed by Fornell and Larcker (1981) establishes that the EVI value of each pair of constructs must be higher than their corresponding square covariance. Therefore, according to the results obtained from both tests, it can be concluded that both measurements provide enough evidence of discriminant validity of the theoretical model.

Table 2. Discriminant validity of the theoretical model

<table>
<thead>
<tr>
<th>Variables</th>
<th>Proactivity</th>
<th>Risk Taking</th>
<th>Innovativeness</th>
<th>Innovation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proactivity</td>
<td>0.519</td>
<td>0.120</td>
<td>0.190</td>
<td>0.077</td>
</tr>
<tr>
<td>Risk Taking</td>
<td>0.242–0.450</td>
<td>0.539</td>
<td>0.166</td>
<td>0.095</td>
</tr>
<tr>
<td>Innovativeness</td>
<td>0.324–0.548</td>
<td>0.274–0.542</td>
<td>0.551</td>
<td>0.092</td>
</tr>
<tr>
<td>Innovation</td>
<td>0.184–0.372</td>
<td>0.203–0.415</td>
<td>0.195–0.411</td>
<td>0.748</td>
</tr>
</tbody>
</table>

The diagonal represents the Extracted Variance Index (EVI), whereas above the diagonal the variance is presented (squared correlation). Below diagonal, the estimated correlation of factors is presented with 95% confidence interval.

3. Results

A model of structural equations was applied in order to answer the hypotheses stated in this empirical research by using the software EQS 6.1 (Bentler, 2005; Brown, 2006; Byrne, 2006) which analyzed the nomological validity of the theoretical model through the square Chi test. It was based on the comparison of the results obtained from the theoretical model and the measurement model; the results indicate that the differences between the two-theoretical model and the measurement model are not significant which provides an explanation of the relations observed between the latent constructs (Anderson & Gerbing, 1988; Hatcher, 1994). Table 3 shows these results in a more detailed way.

Table 3. Results from the structural equations model

<table>
<thead>
<tr>
<th>Hypothesis</th>
<th>Structural Relationship</th>
<th>Standardized Coefficient</th>
<th>Robust t-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1: Higher level of proactivity, higher level of innovation.</td>
<td>Proactivity (\rightarrow) Innovation</td>
<td>0.303***</td>
<td>3.348</td>
</tr>
<tr>
<td>H2: Higher level of risk taking, higher level of innovation.</td>
<td>Risk Taking (\rightarrow) Innovation</td>
<td>0.415***</td>
<td>4.345</td>
</tr>
<tr>
<td>H3: Higher level of innovativeness, higher level of innovation.</td>
<td>Innovativeness (\rightarrow) Innovation</td>
<td>0.349***</td>
<td>3.739</td>
</tr>
</tbody>
</table>

\(\chi^2 (df = 199) = 313.182; p < 0.000; NFI = 0.901; NNFI = 0.955; CFI = 0.961; RMSEA = 0.044\)

Note. *** = \(P < 0.01\).

Table 3 shows the results obtained from the implementation of the model of structural equations. It was found that, regarding hypothesis H1, the results (\(\beta = 0.303, p < 0.01\)) indicate that proactivity has significant positive results in the innovation of SMEs. Regarding hypothesis H2, the results (\(\beta = 0.415, p < 0.01\)) indicate that risk taking has significant positive results in the innovation of SMEs. Regarding hypothesis H3, the results (\(\beta = 0.349, p < 0.01\)) indicate that innovativeness has significant positive results in the innovation of SMEs. Therefore, it is possible to conclude that, on one hand, proactivity, risk taking and innovativeness create a higher level of innovation in SMEs. On the other hand, the entrepreneurial orientation is a good estimator of innovation capabilities in enterprises, especially in SMEs.

4. Discussion

The results obtained in this research paper allow us to reach some conclusions on two essential aspects. Firstly, the more proactive SMEs are in their business activities the higher the possibilities to increase significantly their innovation capabilities. If they become reactive to the changes demanded by the business context and the market, it will be too complicated to increase their innovation capabilities. Similarly, they will have to take higher risks in the development of their activities as this will also help them to improve their innovation level. Finally, they
will have to be innovative, that is, to take advantage of their capabilities and creativity to improve or create new products, services and management systems since their innovation capabilities will depend mostly on the proactivity actions, risk taking and innovativeness that they have and apply in their daily activities.

Secondly, it is also possible to conclude that as long as SMEs apply a higher proactivity, take more risks and become more innovative then this type of organizations will have higher possibilities to adopt and implement an entrepreneurial orientation. This will result into a more entrepreneurial organization with more entrepreneurial employees and workers, which will bring a higher level of innovation capabilities as well as a higher business performance. Therefore, if enterprises want to improve or increase significantly their innovation capabilities then, as a first step, they will have to implement inside the organization an entrepreneurial orientation by applying specifically its three dimensions: proactivity, risk taking and innovativeness and make them part of their everyday activities.

Additionally, these results also involve a series of implications for both enterprises in general as well as managers and/or owners of SMEs specifically. Thus, one of the first implications of this research is that enterprises have to change their traditional organizational culture and implement an entrepreneurial orientation in which workers and employees of SMEs can offer ideas to solve the main problems that affect the organization. This will give the personnel a more proactive participation working as a team and provide ideas for the improvement or development of new products, processes and management systems. In turn, this will improve significantly not only the innovation capabilities of SMEs but also the results they can have.

Similarly, the change of organizational culture demands that SMEs create a positive environment so employees and workers can participate with their ideas and work as a team to improve the organization, otherwise it will be too difficult that the staff feel safe to express their ideas since they will be afraid of being punished. Therefore, it is very important that the internal context in the organization facilitates the creation of ideas and the implementation of creativity from all the personnel so this can produce a higher level of proactivity in SMEs instead of being just reactive to the problems and demands of the business and market environment, take better decisions with low risks and create a higher level of innovativeness. In other words, it is important that SMEs adopt and implement the entrepreneurial orientation in all the activities and functional areas or departments of the organization.

Likewise, managers and/or owners of SMEs will have to carry out the necessary action to create a positive environment for the creation of ideas and the development of creativity of all the organization. This will allow them to adopt and implement efficiently the entrepreneurial orientation. In other words, employees and workers will need some freedom to develop their creativity and propose not only solution to problems face by the organization but also to produce new or improved products, services and management systems so their products and/or services can adapt to the preferences and needs demanded by their current and potential customers. These actions could displace their main competitors of their market which will create a higher level of growth and development in the organization.

Furthermore, if managers and/or owners of SMEs carry out relevant actions so the organizations have the requirements to adopt and implement efficiently all the activities related to the entrepreneurial orientation then enterprises will have higher possibilities to increase significantly their innovation capabilities as well as their creative and entrepreneurial capability. With this, SMEs will have higher possibilities to adopt and implement innovation capabilities in all the organization which will allow them to increase their participation in the market and survive and also obtain more and better competitive advantages, a higher level of competitiveness and a better level of business performance than their main competitors.

Finally, the implementation entrepreneurial orientation will be fundamental for an adequate implementation of proactivity, risk taking and the creation of a higher level of innovativeness so managers and/or owners of SMEs design and implement the necessary training and skill-building courses so workers and employees of the organization improve and increase their creative capability, develop their team working capabilities, share their knowledge and skills in a way that facilitates not only their personal development but also an effective and efficient integration of all the personnel of the organization. This will enable the growth of innovation capabilities as well as a rise in the level of business performance in SMEs.

On the other hand, it is important to consider the main implications that this empirical research has. The first one is related to the scales used to measure the entrepreneurial orientation and the innovation capabilities since only three dimensions or factors were considered for both the entrepreneurial orientation (proactivity, risk taking and innovativeness) and the innovation capabilities (innovation in products, processes and management systems). Future investigations will need to incorporate other factors or dimensions to verify the results obtained. A second
limitation is the information obtained as only qualitative variables were considered to measure the two concepts related (entrepreneurial orientation and innovation capabilities). Further researches will need to incorporate quantitative variables or hard data in order to verify if the results obtained are the same.

A third limitation is that the questionnaire was applied only to managers and/or owners of SMEs from Aguascalientes State so the results obtained can vary if a different sample is used. Further investigations will need to apply the same questionnaire to, for example, workers and employees to verify the results obtained. A fourth limitation is that for the sample the enterprises considered were only those that had between five and 250 workers and as a consequence future researcher will have to consider in the sample SMEs with less than five employees. A final limitation is that most managers and/or owners of SMEs from Aguascalientes State considered that the information requested was confidential so the information provided does not necessarily reflect the reality of the enterprises.

References


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