INTRODUCTION
The present investigation belongs to the activities developed by the academic body Management and Business Development of the Institute of Economic-Administrative Sciences (ICEA) of the Autonomous University of the State of Hidalgo (UAEH), and whose objective was to analyse the impact of technological innovation in medium-sized companies in the industrial sector within the State of Hidalgo.

The theoretical evidence highlights the need to know the factors that affect the achievement of high levels of competitiveness by organizations, factors that seem to be oriented towards innovation and optimal application of technologies in production processes [1].

GENERAL INFORMATION
The textile industry constitutes a significant sector for the economy of many countries due to its participation in the GDP and the generation of jobs [2]. In the case of Mexico, with the implementation of the North American Free Trade Agreement (NAFTA) it represented attraction of foreign investment, development of strategic alliances and access to technology, which, finally, would result in growth of the economy. However, there have been several phenomena that have negatively affected the dynamics of trade between the United States and Mexico [3].

The socioeconomic contribution of this sector was reflected in the creation of jobs, since the number of workers in the textile sector went from 42,231 in 1990...
to 26,559 ten years later [4]. However, this trend weakened as globalization favored the pressure to increase competitiveness in terms of quality, productivity and flexibility from the shift of production activities to countries with the capacity to offer costs low labour costs [3].

On the other hand, in Mexico, the contribution of the textile and clothing sector to international trade reached the export leadership in the period between 1990 and 2002 when achieving a participation in the imports of EE. UU of 11.58%, but the lack of technological innovation caused the loss of competitiveness against Asian and Eastern European countries at the beginning of the first decade of the 21st century, mainly because labour costs no longer represent a competitive advantage, because those from countries such as China and India are even lower [4].

From an organizational approach, technology is conceived as the use of knowledge for the creation of goods and services, which make it one of the main mechanisms available to design, create and distribute their products [5].

The term technology is used to refer to the process by means of which tools are developed that elevate the control and understanding of the material context, this construct is made up of two kinds of knowledge: the codified and the tacit. Additionally, technologies are affecting the economic environment and, along with them, the needs of consumers, which are increasingly difficult to satisfy, which implies a challenge for companies to implement new strategies that allow them to be more competitive. Contemporary fashion trends and modern technologies impose more requirements to the textile industry.

The innovation is one of the most important factors for the so called “Knowledge Society”, in which knowledge constitutes, precisely, a strategic element for all nations and organizations, where the correct management of it, represents improvements in competitiveness and survival within a globalized economy [6].

In the degree to which knowledge is oriented towards producing innovations, in that degree a greater development in technology will be achieved. The Economic Commission for Latin America and the Caribbean (ECLAC) highlights that among the main factors that distinguish the current economy are the following [7]:

- mostly codified knowledge;
- science and technology in close relationship, high innovation rates and a short product life cycle;
- greater relevance in continuous learning, in education and in the issue of innovation in GDP growth;
- lower investment in fixed capital and more in intangible factors (R&D, education, software);
- labour market and its variability in demand.

Tables 1 and 2 show the results obtained from the application of the pilot test to the 10 medium-sized companies in the textile and clothing sector.

Table 3 shows the percentage of variance ($R^2=0.37$, $p<0.01$) finding a statistically significant relationship between the variables “characteristics of companies in exports” ($\beta=0.42$; $p<0.01$) and “infrastructure” (specifically in the dimension “renewal and expansion of products and services”). According to these results, renewal and expansion of the range of products is generated based on the presence of an export performance of medium-sized companies, so that medium-sized companies in the state of Hidalgo are competitive in their exports require the best infrastructure in their productive processes.

For its part, the results presented in table 4 show that there is a statistically significant relationship between the number of patents and utility models of companies and the variable “human capital formation”, which indicates that innovation for the development of patents, utility models or copyright of companies ($\beta=-0.50$; $p<0.01$) resides, to a large extent, in the...
formation of their human capital, obtaining a percentage of explained variance of $R^2=0.38$ ($p<0.01$).

In general terms, both analyses carried out in the pilot show a significant association between the variables innovation in infrastructure and training of human capital and exports and innovations of companies, but not with the age of the company and its sales volume.

**CONCLUSIONS**

Technological innovation is a very important factor in the achievement of business competitiveness, which also has an impact on the economic development of any country, since it is a guiding axis in the production of goods and services.

The partial results of this research show interesting aspects to be analysed: in the first instance, the positive relationship between the characteristics of the companies and the infrastructure and innovation in the production processes of these. Similarly the role of investment in intellectual capital and in the generation of knowledge that brings innovation from the creation of brands and patents, key factors in achieving competitiveness.

The objective of this study is to identify the influence of innovation in technology on the competitiveness of medium-sized companies in the textile and clothing sector in the state of Hidalgo, in turn, develop improvement proposals that allow them to be competitive in the regional market, National and international.

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