

Characteristic Growth Factors of Small and Medium-Sized Enterprises in View of Multidirectional and Varied Results of Empirical Research

Abstract

The paper indicates a relatively big share of firms of the SME sector in the economic development of countries and attention is paid to beneficial effects achieved from the growth of those firms. The author presents selected conclusions of empirical research into that problem in numerous countries, implemented from the point of view of the influence of various factors on the growth of firms of the SME sector including micro-, small and medium-sized business entities. It gives a picture of authorial research and findings referring to the highlight of most significant growth factors of these businesses, which were verified empirically.

Key words: Small and Medium-Sized Enterprises, factors of growth, empirical results.

1. Introduction

Small and medium-sized enterprises are responsible for a relatively high, sometimes even vital level of the development of a national economy. It concerns the European Union countries but also other economies of the world, including, among others, the US, China, India and Japan.

Small and medium-sized enterprises function concurrently with micro-enterprises¹, together with them creating so-called SME sector, often called the Small and Medium-Sized Enterprise sector. The shares of those enterprises are relatively large in individual countries, also in Poland, in respect of (Borowiecki & Siuta-Tokarska, 2008):

- the number of people working in the national economy, particularly in the enterprise sector,
- generation of the Gross Domestic Product,
- foreign trade,
- innovative activities in the enterprise sector in total.

Irrespective of the above, a significant share of these enterprises in the area of investment and the extension of infrastructure of specific countries can be observed.

Taking the economy of Poland as an example, we can show that the share of micro-firms in the GDP generation (29.7 %) is higher than the share of the other sectors of economy (27%), or even large enterprises (24.5%). It confirms a relatively large share of the SME sector firms in generating GDP (the share of micro-, small and medium-sized enterprises in total is 48.5 %) (Raport o stanie sektora... 2012-2013, 2015)².

The production potential and the sales of individual firms of the SME sector are mainly related to their size class in such a way that they increase with the growth of the size class of these firms. However, they are relatively smallest in micro-enterprises, bigger in

¹ In the European Union micro-enterprises are business entities employing fewer than 10 workers.

² The data concern the year 2012.

small enterprises³, and biggest in medium-sized enterprises⁴. The change of the size of enterprises from smaller to bigger ones arises from their growth in the process of the development of those entities.

The benefits from the growth are achieved not only by businesses themselves, due to the improvement of their investment, innovative and competitive capabilities, but also by the whole national economy. Along with the growth of the firm, the rise of its production potential takes place, an increase in the employment of workers, bigger capabilities of financing research and development activities occur. With the growing share of enterprises characterized by growth in an economy, considerable economic growth of the country may take place, accompanied by the simultaneous improvement of innovativeness and competitiveness of its economy.

Considering, among others, the mentioned benefits arising from the growth of the SME sector firms, the issue is an important part of research papers whose authors got involved in the implementation of research into the growth of those enterprises on the path to their development.

The aim of this article is to present selected effects of multidirectional and varied research concerning the problem of the growth of small and medium-sized enterprises, having verified the following research hypotheses:

H1: The tendency to grow is a natural law concerning any enterprise. This growth depends especially on the material and non material resources the enterprise possesses which in turn is defined as its potential.

H2: The enterprise growth is an unseparable part of its development and in most cases it is connected with its mission and goals.

H3: The same factors may have a varied influence on the growth of the enterprise taking into consideration social and economic conditions of the countries in which they operate as well as the classes of their size.

2. Growth factors in the context of enterprise development

In the literature of the subject, among various factors of development of a firm factors shaping changes in its size are also indicated, namely growth factors and the factors shaping the enterprise structures, that is, factors of structural changes (Chomątowski, 1996). Therefore, growth factors are constituents of a firm's development factors.

The term of growth is understood, among others, as positive quantitative changes in the course of various natural, social and economic phenomena (Kortan, 1997)⁵. On the other hand, development is understood not only as quantitative but also structural and qualitative changes which occur jointly, and often as a result of quantitative changes (Gabrusewicz, 1992). What differentiates the notions of growth and development is related to the character of changes made. With the growth the size of a firm changes, which in turn influences an increase in its potential and passing to a higher size class, whereas development is basically sought in qualitative changes and it can take place even with the drop in the value of production and the reduction of the number of workers. The essence of development is not a quantitative increase in the goods manufactured or the services provided but rather making changes aiming at the production of new products and services of higher quality, which improve the conditions of the firm's operations and meet new needs of the customers (Gabrusewicz, 1992).

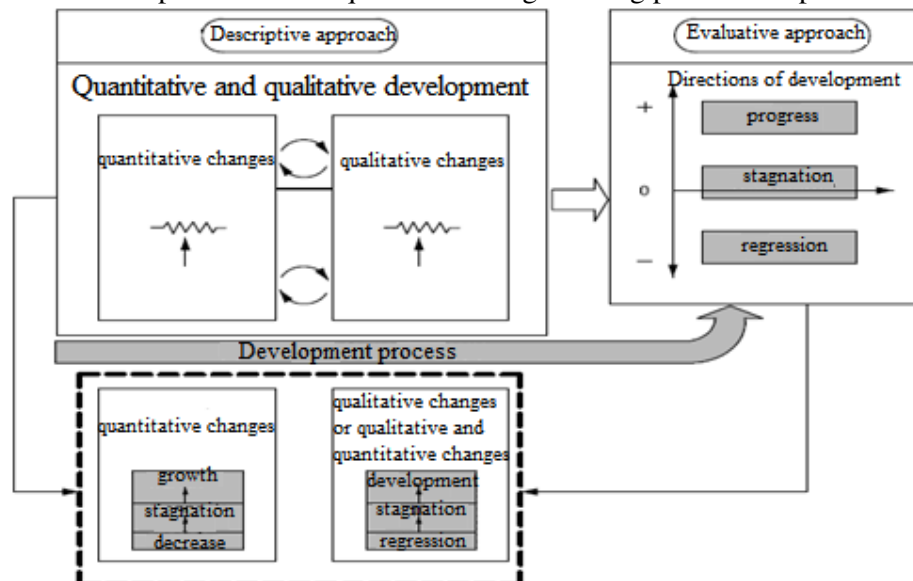
³ In the European Union a small enterprise is a business entity which employs fewer than 50 workers.

⁴ In the European Union a medium-sized enterprise is a business entity which employs fewer than 250 workers.

⁵ As J. Kortan indicates, also with regard to enterprises (as in national economies) we cannot exclude zero or even negative growth.

We may assume that the enterprise development process can progress under the influence of quantitative changes, qualitative changes or quantitative and qualitative changes (Fig. 1).

Fig. 1. The notion of development in consequence of changes taking place in the process



Source: Wach, K. (2012). Europeizacja małych i średnich przedsiębiorstw, PWN, Warszawa, with own changes.

As it can be seen in Fig. 1, changes which are exclusively quantitative end in growth, whereas qualitative changes or qualitative and quantitative changes end in development. In practice, the changes mentioned affect each other, determining the enterprise development process.

In the literature of the subject, attention is paid to the variety and asymmetry of the types of enterprise growth, considering a negligible part of enterprises growing steadily and fast, from which conclusions are drawn about some contingency of this process.

Among significant growth factors of the SME sector, the following are distinguished (Zhou & de Wit, 2009):

1) Individual factors concerning an entrepreneur, such as:

- his personal qualities, including character traits, a need for achievements, effectiveness or taking risk;
- motivation to achieve the goal of the firm;
- individual competence;
- others, such as experience and education.

2) Organizational factors, such as:

- attributes of the enterprise, including its age and size;
- the enterprise strategy;
- specific resources of the enterprise;
- organizational structure.

3) Environmental factors influencing the growth of a business in respect of their: dynamism, heterogeneity, as well as competitiveness turning into "hostility" or "favour" of the environment.

Among growth factors of the SME sector firms there are also, for example: innovativeness, flexibility of operations, skillful management, the structure of the sources of finance, and others.

3. Conclusions arising from the implementation of multidirectional research into firms of the SME sector with regard to their growth

The empirical research concerning the growth possibilities of firms of the SME sector usually considers mutual relations between the growth of a business and individual, significant from the research point of view, growth factors. J. Wasilczuk in her empirical research in Poland isolated growth factors of small enterprises referring to (Wasilczuk, 2004):

- the owner - manager, including his sex, age, entrepreneurial motivations, education, experience and personal features,
- the firm itself, including the period of its functioning on the market, legal form, hiring “professional” managers, launching new products, information and advice from the outside, credits, subcontracting, delegating powers, raising qualifications, strategic planning and exports.

As a result of the conducted research, J. Wasilczuk proved significant influence of the majority of the mentioned factors on the growth of small enterprises, referring both to the owner-manager himself and his firm. Only with respect to the four of those factors, namely the age of the owner, his personal features, the legal form of the business, as well as hiring “professional” managers in the firm, no impact on the growth of the business was revealed. On the other hand, the effect of the period of the firm’s functioning on the market on its growth turned out to be positive for “older” enterprises, contrary to what is often presented in the literature of the subject.

What arises from the overview of the literature devoted to the problems of the growth of SMEs is that the conducted research primarily referred to mutual relations between the growth of a firm and factors like:

- the growth of a firm in the context of its age and/or size;
- the growth of a firm and its resources along with other distinguished factors,
- the growth of a firm in the context of the influence of various factors.

The conducted analyses of the specific research findings have basically a fragmentary and non-holistic dimension, among others due to limitations and real possibilities to implement empirical research (Zhou & de Wit, 2009).

Below, there is an attempt to generalize conclusions referring to the indicated interdependencies between the growth of an enterprise and the studied growth factors.

3.1. Enterprise growth in the context of its age and size

It is pointed out that the growth of a firm is an evolutionary process, based on gathering collective knowledge in the context of a special purpose entity (Perenyi, Selvarajah & Muthaly, 2008), and the age of a firm is a determinant of the experience gathered by it (Aldrich, 1999; Gupta, Guha & Krishnaswami, 2013).

With regard to the aspect of the dependence of the firm growth on its age and size, we can come across various, even contradictory research findings. Thus, for example, on the basis of the research carried out among American businesses, E. Hurst and B.W. Pugsley found out that various relations occur between the growth of small and medium-sized enterprises and their age and size (Hurst & Pugsley, 2011). On the other hand, what results from the research of J. Haltiwanger et al. is that there is little effect of the age and size of firms on their growth (Haltiwanger, Ron & Javier, 2010). Some research authors have found out

that the growth of a business is inversely correlated with age and size (Mansfield, 1962; Birley & Westhead, 1994), which would mean that the growth of firms of the SME sector occurs to a greater extent among younger and smaller entities.

However, A. Heshmati, who conducted research among micro- and small enterprises in Sweden, revealed a relatively large correlation between the growth of a firm and its age and size, with the use of adequate estimation methods and the measures of the firm's growth and size (Heshmati, 2001).

Regardless of the research directly referring to the establishment of mutual relations between the growth of an enterprise and its age and size, also some research additionally considering the influence of other enterprise growth factors was conducted. Among others, P.M. Nunes et al., when examining the effect of the age and size of small and medium-sized enterprises on their growth, indicated the occurrence of the following relations: age and size are restrictive factors for young firms but they do not play an important role for older businesses. Moreover, at the same time the authors indicated other factors which are significant for the growth of businesses. For younger firms it is financial liquidity and debt, for younger ones it is the intensity of research and development works and work efficiency (Nunes, Goncalves & Serrasqueiro, 2013).

Similarly, what arises from Mateev and Anastasov's research into firms of the SME sector in Central and Eastern Europe is that the growth of those businesses is influenced both by their age and size, as well as by the structure of the sources of their financing (Mateev & Anastasov, 2010)⁶.

Moreover, L. Beechetti and G. Trovato in the research conducted among Italian businesses of the SME sector (Becchetti & Trovato, 2002) claimed that the growth of firms is influenced not only by their age but also the accessibility of finance, but the growth is faster in firms characterized by better access to external sources of finance, among others.

On the basis of the presented various conclusions of the research findings of numerous authors discussing the effect of such factors as the age and/or size, as well as other additional factors on the growth of firms of the SME sector, we can conclude that the majority of authors of the conducted research prove the correlation between the firm growth and its age and size. Positive indications of some authors for firm growth with regard to "young" entities, particularly micro and small enterprises, are worth noting.

3.2. Firm growth and its resources and other distinguished factors

Resources of a firm are understood both as tangible and intangible resources (Urbanowska-Sojkin, Banaszyk & Witczak, 2004). Tangible resources include fixed resources, such as: devices, equipment, material and technical, financial, technological resources, the organization and management system. Intangible resources include, among others: managerial contacts, relations with suppliers and customers, goodwill, intangible and legal values, namely corporate value, intellectual values, copyrights, knowledge and experience of workers.

When implementing research into firm growth, P. Davidson et al. found out that the growth of businesses is closely connected with the entrepreneurial and strategic orientation of an entrepreneur, but the real growth to a great extent depends on resources and taking chances for growth which occur in the environment (Davidsson, Delmar & Wiklund, 2006). L. Perren

⁶ In the indicated work Mateev and Anastasov proved that the total value of assets, being one of the "size of a firm" measures has a large scope of influence on the growth of a firm whereas the firm size measured based on the number of workers has a marginal influence. **As factors significant for the growth and transformations of a firm in the research the following were also indicated: the ratio of debt to the assets in total (leverage), current liquidity, possibilities for growth in the future, internal sources of finance and productivity factors.**

claimed that among the factors which substantially affect the growth of micro-firms we can mention: the owner's motivation to achieve the firm growth, specific knowledge about managing its growth, demand and the access to resources (Perren, 1999). The factors were verified by him with a positive result (Perren, 2000).

S. Goshal et al. point out that in practice, the limitation of enterprise growth takes place as a result of a reduced access to broadly understood resources (Ghoshal, Hahn & Moran, 1999). What arises from Wagenvoort's research into European SMEs operating in industry and construction is that the factor limiting their growth are problems with the structure of the sources of financing these firms, including the limitations of accessibility to external sources of finance (Wagenvoort, 2003).

3.3. Firm growth in the context of the influence of various factors on it

A. Perenyi et al. included the following in the factors exerting significant influence on the growth of businesses: knowledge, entrepreneurship, capability of recognizing opportunities, motivation to grow, the environment, as well as the economies of scale and the economy of growth (Perenyi, Selvarajah & Muthaly, 2008).

According to J. Targalski, among very important factors of success or failure of small and medium-sized enterprises at the stage of expansion connected with growth and being of critical importance, there are, on the entrepreneur's side: the entrepreneur's goals, his managerial and strategic abilities, and on the firm's side: financial resources, human resources, the management system and, as an important factor, the resources of the firm (Targalski, 2003).

In the literature of the subject, factors significant for the growth of firms, so-called gazelles (Gancarczyk, 2008; Wybrane wskaźniki przedsiębiorczości, 2011)⁷, called firms of fast growth, are often analyzed. S. Feindt et al. considered the following as such factors for the SME sector firms: experience and knowledge of the owner-manager (specific for a given sector and market), close relationships with the customer, particularly in the area of quality and innovativeness, as well as the flexibility in the area of technology and marketing, focus on profit and good cost management, skillful workforce management and the developing market (Feindt, Jeffcoate & Chappell, 2002).

M. Gancarczyk pointed out to the significance of "gazelles" in economy and isolated the following factors of their growth (Gancarczyk, 2008):

- the person of the entrepreneur, including his ambitions and motives, functional skills, managerial experience and experience in a specific sector, age and the number of founders/managers,
- the organization, including: age of the firm, sector of activities, size and the legal form,
- strategy, including: technological level, innovations, planning and external financing.

Also from M.J. Ferrantino et al. research into "gazelles" among Chinese and Indian firms (Ferrantino, Mukin, Pearson & Snow, 2012) a specific relation between fast growth of these entities, their age and conducting export activities arises. Among Chinese businesses a distinctly increasing share of exporters gazelles among exporters in total was proven,

⁷ This notion is understood as firms operating on the market not longer than 5 years and characterizing with fast growth rate of sales revenues (on average 20% and more in the 3 year-period), e.g. according to the methodology applied by the Central Statistical Office in Poland). However, it should be emphasized that there is no one commonly valid definition of the level of measures and the measures of growth measurement themselves, in order to qualify the firms as growing, declining, stable and so-called "gazelle". In the literature of the subject, a lot of authors assume that fast-growing firms are the ones which are able to double its size (sales, employment or assets) in a relatively short time, e.g. 4 or 5 years. For more on the problems of firm growth measurement.

whereas Indian firms entities defined as gazelles were to a greater extent non-exporters than exporters. Considering the period of conducting activities on the market by these firms, the findings of their research both in China and in India prove that in the case of younger firms, their bigger inclination for faster growth is observed.

Among other growth factors, the literature of the subject also mentions the occurring relations between the growth of small and medium-sized enterprises and changes in their structures with regard to the ownership and the sources of finance. In respect of the ownership structure of small and medium-sized enterprises we can notice the variety of views in this matter: some authors emphasize that family relationships of the owners (family firms) are a factor negatively influencing the growth of these enterprises, and other indicate them as a positive determinant (Hamelin, Trojman, 2007; Chu, 2009). The differences within this scope can be explained with differences in the organizational culture of firms, related to the accepted traditions and the culture of the society in a given country, including the recognition of the significance of family and its place in business.

In the research into the influence of the equity structure on the growth of small and medium-sized enterprises, the following results were obtained:

- based on the research, K.P. Huynh and R.J. Petrunia find out that firms characterized by high growth have a higher level of debt in comparison with firms with low growth, and external financing is of critical importance for their growth (Huynh, Petrunia, 2010),
- J.A Timmons, on the other hand, points out that small and young firms of the SME sector base on the internal sources of finance, whereas external sources are used by them when they achieve a higher level of their development (Timmons, 1994; Stawasz, 2006)⁸.

The object of interest of numerous authors is also the relation between firm growth and its lifecycle and the occurring stages of the firm development (Phelps, Adams & Bessant, 2007; Hanks, Watson, Jensen & Chandler, 1993; Rutherford, Buller & MacMullen, 2003; MacMahon, 1998, 2001). Some authors of research indicate that the growth of a firm is a determinant of its life, and the stage determines possibilities for its growth (Perenyi, Selvarajah & Muthaly, 2008).

What results from G. Ciemleja and N. Lace's research carried out among small and medium-sized enterprises in Latvia is that depending on the stage of the firm lifecycle (growth, maturity and decline), the factors of its growth changed, and those which occurred on all stages of the development of the firm changed its power of influence on individual stages (Cimleja, Lace, 2011).

4. Conclusion

Numerous authors of research and publications referring to firms of the SME sector pay special attention to the problem of the growth of businesses of this sector, related to the growth of the production potential possessed by them and the growth of their size class. The research hypotheses in this research area presented in the introduction of my publication were positively verified.

Mentioned authors notice in firm growth expected benefits in the form of an increase in the employment of workers, an increase in resources, raising their capabilities of conducting research and development works on their own, improvement of their technical level, innovativeness and competitiveness on the domestic market and overseas markets. Therefore, in their research they try to distinguish the factors which are most significant for

⁸Similar dependencies with reference to SMEs in total are indicated by E. Stawasz who emphasizes that accessibility and the kinds and forms of financing in the SME sector primarily depend on the size of a firm and the stage of its development.

the growth of firms of the SME sector. Research of this type has been conducted in many countries and its findings were in numerous cases varied in terms of individual factors.

It seems justified to say that the power of influence of individual growth factors distinguished by the authors of some research depends greatly on the level of the economic development of the country in which the studied firms of the SME sector conduct their activities and on the activeness of firms themselves, which should be basically consistent with the goals and mission of each of them. The presented conclusions from the implementation of small and medium-sized enterprises from the point of view of their growth may be a guideline for the direction of further research within this scope.

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