Financial planning and access to financing in small and medium-sized companies in the Venezuelan manufacturing sector

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ABSTRACT: The relationship between the presence of financial planning and difficulties regarding access to financing in small and medium-sized companies (SMES) in the Venezuelan manufacturing sector is studied. This is an explicative type research work, designed as non-experimental, cross-sectional and correlational field work, applied to a sample of 67 SMES. A questionnaire was applied and a review was made of the relevant literature, to establish the characteristics of the selected variables, according to the high-medium-low measurement for each of the selected indicators. The preliminary results make it possible to affirm that the financial planning variable demonstrates a medium presence in the companies, with medium and low levels of coordination among their components. Average access to financing is classified as low, marked by a medium-high access to credit from suppliers, medium access in reinvestment of profits and medium-low access to bank credit lines. There is also evidence of financing patterns compatible with the Pecking Order Theory. The conclusion is that there is a weak relationship between the characteristics of financial planning and the levels of access to financing, with the inference that the behavior of these variables is determined by a multiplicity of factors.

KEYWORDS: Small and medium-sized enterprises, SMES, financial economics, financial planning, access to financing, strategic planning.

Introduction
The study of the operations and performance of small and medium-sized enterprises (SMES) is an inexhaustible research topic that is the object of frequent publications in such varied areas as their competitiveness, internal organization, contribution to economic growth and employment, public policies aimed at their strengthening, and the entities that provide them with financing, among others.

Many of these publications agree in stressing the importance and dynamism of the SMES within the business fabric of any country (BID, 2005;
Malhotra et al., 2007; Zevallos, 2007; Galindo, 2005), emphasizing the need to overcome their weaknesses in order to strengthen their permanence in their sectors of activity.

Most research associated with the challenges that the SMEs must surmount in order to be successful focuses on external factors that have an impact on the performance of these organizations, such as the availability of credit mechanisms, administrative procedures, relationships with the governmental sector, with financial institutions, with suppliers and with distributors, the availability of qualified personnel and in general with respect to the business environment that they must face. Another research category that in recent years has become important complements the study of the business environment by focusing on the internal characteristics that describe companies, specifying their weaknesses in areas of business management that make successful performance even more difficult.

As can be seen in the referred-to works, support programs for the development of SMEs tend to be mainly aimed at facilitating access to financial resources (Peres y Stumpo, 2002, p. 4; Moll, 2007). To a lesser extent, these programs may include training mechanisms to improve the managerial skills of the managers (generally the owners) of the firms, but to do so there must be a detailed diagnosis to facilitate the identification of critical areas for consideration in the action of these entities.

This research is framed within that concept. While the aspects that must be studied in terms of the functioning of those enterprises are varied, considering their complexity and multi-dimensionality, at this time the focus is on the study of their financial management (planning and financial control), because it is an area that has not been sufficiently studied, and in which deficient performance poses an obstacle for the rest of the organization’s operations and the access that the company could have to varied sources of financing.

To this end, the proposed research aims to determine if there is a relationship between the presence and coordination (association) of the components of financial planning and the access to diverse sources of financing available to SMEs, taking the Venezuelan manufacturing sector as a case study. To do so, a theoretical review is structured as support for the proposal, the applied methodological guidelines are presented and the preliminary results obtained for these variables are discussed with respect to a sampling of 67 companies.

**Review of the literature**

The research addresses a set of indicators grouped under two main variables: Financial planning and access to financing.

*Financial planning* is conceived as a business process that is based on formulation of the organizational and systemic strategy and which includes the design of objectives, strategies, policies and control mechanisms associated with investment and financing decisions, considering their implications for both the short and long terms (García et al., 2003; Brealey and Myers, 2010; Suárez, 2003).

The theoretical approach to this variable makes it possible to schematize its analysis under the following components:

1. **Conditions for the development of financial planning** (Santandreu y Santandreu, 2000; Francés, 2001): Referring to the characteristics and processes that must be present for its correct functioning, such as the existence of business planning practices, and the characteristics of the financial or similar department.

2. **Development of planning and control processes in the financial function** (Brealey and Myers, 2010; Diez y López, 2001; Suárez, 2003), including aspects associated with the formulation of objectives and goals, definition of strategies, design of policies, definition of control mechanisms and preparation of documents of the financial plan.

3. **Financial parameters for long-term decision-making** (Suárez, 2003; Kogan Page et al., 2002; Ortiz, 2005), among others: parameters of performance and risk in the analysis of investments, investment type planning, methods for evaluation of investments, composition of the capital structure, planned financing alternatives.

4. **Financial parameters for short-term decision-making** (Ortiz, 2005; Santandreu y Santandreu, 2000; Brigham and Houston, 2006; Gitman, 2007), among others: Treasury availability, policies of credit and collections regarding customers, inventory handling, planned financing alternatives.

5. **Coordination of the above components, for harmonious and successful management.**

At the same time, access to financing refers to the possibility that a company has to apply for, process and obtain the approval of funds, of both internal and external origin, to finance its operations and development in the short and long terms (The World Bank, 2008a; Zevallos, 2007).

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1. In this regard, the works of Berger and Udell (2005), Cull et al. (2005), Beck et al. (2004b), BID (2002), BID (2005), The World Bank (2008a), among others, could be cited.

2. The works of Deakin et al. (2001), Andriani et al. (2003), Vera (2001), can be cited.
In this sense, the type of access to financial sources is examined: long-term loans, leasing, liabilities and equity issuance, dividends from shares, reinvestment of profits, suppliers, credit lines, short-term loans, guaranteed credits, commercial paper. For each source of financing, the ease of access is analyzed, looking into the speed of approval of applications (fast, slow), their definitive rejection or the entrepreneur’s reluctance to apply for them.

With the aim of determining the state of the art in the study of the behavior of these variables in SMEs, an exhaustive review was made of the literature from the last 10 years. At the international level, growing interest was observed in examining the characteristics of business financing, the factors that determine access to different sources of funds and how the size of companies can affect these factors, among other aspects. However, most studies focus on detecting obstacles to financing in the environment of the companies rather than analyzing the internal conditions of the SMEs in terms of their management (Beck et al., 2002, 2004a, and 2004b; Beck and Demirgüç-Kunt, 2005; Berger and Udell, 2005; BID, 2002 and 2005; Cull et al., 2005; Kumar y Francisco, 2005; The World Bank, 2008a y 2008b; Clarke et al., 2002; Zevallos, 2007).

Some studies focus on analyzing the determining factors of the capital structure, particularly with reference to financial indicators in Spanish companies (Aybar et al., 2003; Boedo y Calvo, 2001).

In terms of the incorporation of qualitative variables in the studies associated with financial management, the work of Deakins et al. (2001) is particularly outstanding for its contribution to the consideration of financial decision-making.
processes in the SMEs, as evolitional and changing, which is why they must be analyzed at different times in order to identify the dynamism of their transformations. His research was based on qualitative data collection and analysis techniques and was carried out using four case studies of British micro and small businesses. The findings from this study included the hypothesis that decisions associated with the composition of the capital structure demonstrate greater complexity than what is suggested by the theory of pecking order, in that it is not the owners' attitude that poses an obstacle to the entry of new shareholders, but rather the lack of investors interested in this type of businesses. Another of his conclusions is the importance of the relationship maintained by the owners-managers with their external advisors (accountants, bank managers, and other professionals), particularly during the first years of a company, a characteristic that turns out to be a determinant in the structuring of its financial processes.

In the documents that were consulted, numerous publications focusing on SMEs exist; a small portion of them focuses on the financial variables, but no studies were found that attempted to determine the influence of these companies' internal financial processes on their difficulties regarding access to financing.

The concern over analyzing procedures that apply to SMEs in their financial management, and their effects on access to financing sources, is present in different studies (Zevallos, 2007), but has not been applied to proposals that systematically research these aspects, and it was this gap that led to the execution of this study. We consider that the above-mentioned studies serve as a point of reference for this research; their conclusions shed light on the problem to be analyzed, but they do not provide conclusive results regarding access to financing.

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Methodology

An explicative type quantitative research work is proposed, with the aim of identifying some of the causes that could be causing problematic situations in the performance of SMEs, particularly regarding their limited access to financial resources. This explicative organization involves exploratory, descriptive, and correlational processes, in order to provide greater understanding of the phenomenon under study (Hernández et al., 2010). A work plan that is designed as a non-experimental (ex post facto), crosscutting, exploratory, correlational field research is used (Hernández et al., 2010; Hurtado, 2007; Ryan et al., 2004).

With the goal of standardizing information on the financial planning process and the level of access to financing on the part of these entities, a survey was used as an information-gathering technique (Hurtado, 2010; Hurtado, 2007). A questionnaire was used consisting of 79 closed questions and scale-type alternatives for response (62 items for financial planning and 17 items for access to financing), with a measurement level by intervals (Hurtado, 2010, Hernández et al., 2010, p. 306). In this way, for each proposal presented, the manager chooses among alternative answers equivalent to different degrees of presence of financial planning and diverse possibilities for access to financing (see Vera, 2010).

In the case of the dimensions and indicators associated with the financial planning variable, questions and response alternatives are included that will be pre-codified to represent three levels of presence of that variable, each with a quantitative score:

- High presence of planning (2 points).
- Medium presence of planning (1 point).
- Low presence of planning (0 point).

Similarly, access to financing sources is studied according to the following parameters:

- High access: Swift approval of applications (2 points).
- Medium access: Slow approval of applications with excessive paperwork (1 point).
- Low access: Includes cases in which financing applications have not been approved due to failure to comply with the requirements, or applications are not submitted because the paperwork is considered to be too complicated, or because the companies do not need additional resources (0 points).

These point values were not made known to the survey participants to avoid bias in their responses.

The questionnaire was designed based on a technical review of the variables, was then validated by expert judges and applied in a pilot test to measure its reliability (Cronbach’s alfa), obtaining as a result a valid and reliable instrument (Alfa=0,962). It was applied between September and December of 2009, through electronic correspondence sent to the financial managers or highest ranking personnel responsible for financial decisions. A geographically stratified random sample of 67 Venezuelan manufacturing SMEs3 was selected, out of a population of 3,651 units (INE, 2006).

3 The definition of SME in Venezuela, when carrying out the study, applies to establishments that employ between 11 and 100 workers, or that have revenues between 9,001 and 250,000 tax units
To calculate the sample of the study, the following equation was applied (Hurtado, 2010; Parra, 2006):

\[
n = \frac{Z^2 \cdot p \cdot q \cdot N}{e^2 \cdot (N - 1) + (Z^2 \cdot p \cdot q)}
\]

\( n \) = sample
\( Z^2 \) = confidence level. A confidence level of 90% is assumed, with a value of \( Z = 1.645 \)
\( p \cdot q \) = probability of responses. It is assumed with values of 50, 50.
\( e \) = error of estimation. A value of 10% is used.
\( N \) = population size. In this case 3,651 companies (INE, 2006).

With this data, a sample of 67 companies was obtained. Considering that out of the total number of companies in the population, 80% are located in 8 states (Miranda, Carabobo, Aragua, Distrito Capital, Lara, Táchira, Zulia, and Bolívar), these were used to randomly select the units that make up the sample. Only 64 of these organizations agreed to participate in the project by responding to the questionnaire.

**Analysis of results**

The information obtained in the entrepreneurial sample makes it possible to estimate certain preliminary results regarding the behavior of Venezuelan manufacturing SMEs in terms of planning and access to financial resources. These preliminary findings serve as a starting point to continue researching the topic in the future, increasing its scope to a greater number of organizations and including other economic sectors, regions and countries, with the aim of carrying out a more complete analysis of a comparative nature.

The general characteristics of the sample included the fact that the set of companies involved has existed for an average of 29 years, with extremes ranging from 1 year to a maximum of 68. In 92.2% of the cases, they carry out their operations at one single site, while the rest have activities in other states in the country or are associated with some type of foreign economic group (3.1%).

Their personnel oscillate between 11 and 110 workers, with an average of 45 employees per company, whereas their level of annual revenues (for 2009) is less than 250,000 tax units (US$3,780,000) in 87.5% of the cases. It should be pointed out that all of the firms fulfill at least one of the parameters to be classified as an SME, whether in terms of volume of employment or revenues during the previous year; 86% fulfill two of the classification criteria, whereas the remaining 14% fulfill only one.

Companies dedicated to diverse sectors of activity were contacted, particularly food and beverages (31.7%), consumables for construction (17.1%), metallurgy (14.6%), plastic products (14.6%), chemical products (4.9%), medical supplies (4.9%), apparel (4.9%), wood (4.9%), and printing (4.9%).

With the statistical processing of the questionnaire, the average scores were determined for the indicators for each variable, to plot their behavior and estimate the associations between them (correlations). The results are examined in accordance with the scheme of the theoretical dimensions of the variables, in line with the above-mentioned measurement scales (0 minimum presence of indicators – 2 maximum presence).

**Financial planning**

Initially the existence of conditions that would make it possible to carry out a well-conceived and executed process of financial planning at the companies under study is observed. These results can be seen in Figure 1.

On average, the 3 dimensions obtain an average score of 1.20, from which we may infer that the financial planning process that they must carry out will not overcome the deficiencies already found in these companies in terms of strategic planning and control (Santandreu y Santandreu, 2000; Francés, 2001). The presence of certain key processes for an overall strategy is particularly noteworthy and a strength that could serve as the backbone in facing the challenges and opportunities for improvement in the Venezuelan SMEs in this set of indicators. However, their greatest difficulties are observed in the application of the plan, in other words, there are cases where the organizations demonstrate certain strategic planning practices that are not supported by adequate processes of follow-up and timely correction.

The shaded zone in Figure 1 represents the level of achievement that the organizations have in the conceptual scheme of the variable, whereas the lighter zone constitutes the unfulfilled margin, which can be translated into opportunities for improvement, if management techniques and tools adjusted to the characteristics and size of these businesses are properly applied.

In the second place, the specific components of the financial planning process were analyzed. Regarding the existence of practices for planning and control in the financial function (Brealey and Myers, 2010; Díez and López, 2001; Suárez, 2003), a significant reduction was observed in the evaluated score (Figure 2), when compared to the previously-commented dimension. This allows us to affirm that...

BY DIMENSIONS:

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presence of strategic planning</td>
<td>1.43</td>
</tr>
<tr>
<td>Functional analysis of the financial management</td>
<td>1.14</td>
</tr>
<tr>
<td>Existence of strategic control mechanisms</td>
<td>1.03</td>
</tr>
<tr>
<td>Average score</td>
<td>1.20</td>
</tr>
</tbody>
</table>

BY SUBDIMENSIONS:

the SMEs can be applying strategic planning techniques without this translating into functional programs, including a financial one. In this component, the low score for drafting the documents of the plan is particularly striking, in other words, in certain organizations management practices were detected without necessarily being reflected in a formal plan.

Long-term decision-making (Suárez, 2003; Kogan Page et al., 2002; Ortiz, 2005) is characterized by a medium presence of these indicators, and particularly by less use of points of reference in terms of the analysis of performance and risk in the analysis of investments and in the methods for evaluating them (Figure 3).

In the case of short-term decision-making (Ortiz, 2005; Santandreu y Santandreu, 2000; Brigham and Houston, 2006; Gitman, 2007), this is the dimension that shows the best results in the study (Figure 4), beating the scores of the preceding indicators. This coincides with the

SUBDIMENSIONS | SCORE
---|---
Formulation of objectives and goals | 1.09
Definition of strategies | 1.13
Design of policies | 0.91
Definition of control mechanisms | 1.08
Preparation of documents of the financial plan | 0.77
Average score for the dimension | 0.99

Source: Drafted by the authors based on the questionnaire applied.


SUBDIMENSIONS | SCORE
---|---
Parameters of performance and risk in the analysis of investments | 0.88
Planning of the type of investment | 1.04
Methods for the evaluation of investments | 0.75
Composition of the financial structure | 1.35
Alternatives of planned financing | 1.24
Average score for the dimension | 1.05

Source: Drafted by the authors based on the questionnaire applied.


SUBDIMENSIONS | SCORE
---|---
Available balances in treasury | 1.36
Credit and collections with respect to customers | 1.13
Handling of inventories | 1.53
Alternatives of planned financing | 1.30
Average score for the dimension | 1.33

Source: Drafted by the authors based on the questionnaire applied.
affirmation that the SMEs have more urgent need to pay attention to their short-term decisions and consider their sustainability over the long-term (Zevallos, 2007).

Each of the dimensions examined regarding the financial planning variable shows the general tendency among the SMEs studied to moderately apply formal management processes, with an emphasis on the strategic business plan and the programming of short-term situations (Figure 5). In addition to the presence of these indicators, the interrelation between them is analyzed, estimating their Pearson correlation coefficients.
coefficients (Hernández et al., 2010), summarized in tables 1 and 2.

In general terms, lower indices of association with the rest of the components are observed in the functional analyses of the financial management (69% of the companies have an administrative department that is responsible for financial management, while 14% report not having a section dedicated to finances) and in the application of control mechanisms.

In the case of the specific components of financial matters, medium correlations are estimated to exist between them, showing insufficient associations between planning and control processes and short and long-term decision-making. In other words, on the one hand situations are detected in which there is a formal financial plan, but it is not used as a point of reference for decision-making, whereas on the other hand there are companies that do not develop explicit plans but apply management parameters to their daily decision-making, without tying them to a comprehensive process in their management.

In addition to the correlations presented in tables 1 and 2, other insufficient associations were identified (coefficients of less than 0.5) associated with other indicators in the design of financial policies, preparation of documents of the plan, planning of sources of financing and capital structure, management of inventories.

For the financial planning variable, it may be concluded that a medium presence of its dimensions and indicators is detected in the companies, with an emphasis on short-term decisions and with incomplete coordination of its elements. The SMEs need to improve this coordination of their plans, so that they may incorporate better management processes into their operations and so that this will be reflected in better performance and sustainability of their businesses.

**TABLE 3. Access to financing at Venezuelan SMEs. Manufacturing sector.**

<table>
<thead>
<tr>
<th>ALTERNATIVES OF FINANCING</th>
<th>Frequency of responses (%)</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HAS NOT BEEN APPLIED FOR</td>
<td>HAS BEEN APPLIED FOR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Does not require this resource (0 points)</td>
<td>Has many resources (0 points)</td>
<td>Subtotal (a)</td>
<td>Was not granted (0 points)</td>
<td>Given slow approval (1 point)</td>
<td>Quickly approved (2 points)</td>
</tr>
<tr>
<td>1. Credit from suppliers</td>
<td>12.5</td>
<td>0.0</td>
<td>12.5</td>
<td>0.0</td>
<td>7.8</td>
<td>79.7</td>
</tr>
<tr>
<td>2. Bank credit line</td>
<td>45.3</td>
<td>3.1</td>
<td>48.4</td>
<td>6.3</td>
<td>17.2</td>
<td>28.1</td>
</tr>
<tr>
<td>3. Short-term bank loans (expiration in less than a year)</td>
<td>70.3</td>
<td>3.1</td>
<td>73.4</td>
<td>3.1</td>
<td>20.3</td>
<td>3.1</td>
</tr>
<tr>
<td>4. Loans from public entities, with short-term expiration dates</td>
<td>84.4</td>
<td>6.3</td>
<td>90.6</td>
<td>6.3</td>
<td>1.6</td>
<td>1.6</td>
</tr>
<tr>
<td>5. Credits guaranteed by accounts receivable (factoring)</td>
<td>84.4</td>
<td>3.1</td>
<td>87.5</td>
<td>3.1</td>
<td>0.0</td>
<td>9.4</td>
</tr>
<tr>
<td>6. Credits guaranteed by inventories</td>
<td>93.8</td>
<td>0.0</td>
<td>93.8</td>
<td>0.0</td>
<td>0.0</td>
<td>6.3</td>
</tr>
<tr>
<td>7. Issuance of commercial paper</td>
<td>96.9</td>
<td>0.0</td>
<td>96.9</td>
<td>0.0</td>
<td>0.0</td>
<td>6.3</td>
</tr>
<tr>
<td>8. Long-term bank loans (expiration dates greater than one year)</td>
<td>68.8</td>
<td>3.1</td>
<td>71.9</td>
<td>3.1</td>
<td>7.8</td>
<td>17.2</td>
</tr>
<tr>
<td>9. Loans from public entities, with long-term expiration dates</td>
<td>75.0</td>
<td>6.3</td>
<td>81.3</td>
<td>6.3</td>
<td>9.4</td>
<td>3.1</td>
</tr>
<tr>
<td>10. Foreign financing</td>
<td>82.8</td>
<td>0.0</td>
<td>82.8</td>
<td>3.1</td>
<td>1.6</td>
<td>12.5</td>
</tr>
<tr>
<td>11. Leasing</td>
<td>93.8</td>
<td>3.1</td>
<td>96.9</td>
<td>0.0</td>
<td>0.0</td>
<td>6.3</td>
</tr>
<tr>
<td>12. Issuance of long-term bonds</td>
<td>96.9</td>
<td>0.0</td>
<td>96.9</td>
<td>0.0</td>
<td>3.1</td>
<td>0.0</td>
</tr>
<tr>
<td>13. Issuance of new common shares</td>
<td>90.6</td>
<td>0.0</td>
<td>90.6</td>
<td>3.1</td>
<td>0.0</td>
<td>6.3</td>
</tr>
<tr>
<td>14. Issuance of new preferred shares</td>
<td>100.0</td>
<td>0.0</td>
<td>100.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>15. Decree of dividend on shares</td>
<td>96.9</td>
<td>0.0</td>
<td>96.9</td>
<td>0.0</td>
<td>0.0</td>
<td>3.1</td>
</tr>
<tr>
<td>16. Reinvestment of company profits</td>
<td>54.7</td>
<td>0.0</td>
<td>54.7</td>
<td>0.0</td>
<td>0.0</td>
<td>45.3</td>
</tr>
<tr>
<td>17. Other type of financing: reserves for maintenance, related companies, prepayments by customers</td>
<td>93.8</td>
<td>0.0</td>
<td>93.8</td>
<td>0.0</td>
<td>0.0</td>
<td>6.3</td>
</tr>
</tbody>
</table>

(*) The average score is obtained by adding together and averaging the responses for each alternative (0, 1 or 2 points). The average hierarchical order is obtained by adding together and averaging the points assigned to the three sources of financing most used at each company (3, 2 or 1 points), where the most widely used source receives 3 points.

Source: Drafted by the authors based on the questionnaire applied.
Access to financing

The results are summarized in Table 3. The alternatives for financing identified and numbered from 1 to 7 refer to common sources for the short term, while those from 8 to 16 are generally associated with long-term resources.

When considering the most widely used financing options, the most notable are the frequent utilization of credit from suppliers (87.5%), reinvestment of company profits (45.3%), and the use of bank credit lines (45.3%). To a lesser extent the SMEs resort to short and long-term bank loans, foreign financing and loans from public entities.

If we compare the level of access to the different types of resources, we only observe a high degree of access to credit from suppliers (1.67 points); there is medium access to funds from retained profits (0.91 points), and medium-low access to bank credit lines (0.73). The SMEs studied have low access to the rest of the instruments (see Figure 6), with particular lack of access to the issuance of commercial paper and preferred or privileged shares.

These results are compatible with findings from prior research, which mentioned the limited access to financial resources traditionally found in this type of organizations (BID, 2002 and 2005).

Regarding the preferred hierarchical order for the most utilized sources of financing, a certain coincidence is observed between the behavior of the Venezuelan manufacturing SMEs and the Pecking Order Theory (Brealey and Myers, 2010; Frank and Goyal, 2005; Myers, 1984; Aybar et al., 2003).

This theory is formulated for the composition of the capital structure (long-term) and proposes a hierarchical level for the choice of sources of financing, in which the company management would prefer, in the first instance, to finance the firm using retained profits (to avoid problems of adverse selection), in the second instance would choose to incur new debt, or would issue liability-equity hybrids, and finally would decide to sell new shares, because they are the instruments with the greatest implications for adverse selection and asymmetrical information.

Table 3 shows the preference for financing using short-term resources: Credit from suppliers and bank credit lines. But in terms of long-term resources, there is a predominance of the use of reinvestment of profits, followed by different modalities of bank financing and, as a last option, the issuance of new common shares. In a way, this proves the previously commented theoretical postulate.

Relationship between financial planning and access to financing

Once the principal findings in each of these variables have been separately analyzed, it is necessary to study

FIGURE 6. Access to financing at Venezuelan SMEs. Manufacturing sector. Alternatives of financing, arranged according to the highest score in terms of the level of access
the possible relationships that could exist between them, through the analysis of significant statistical correlations, summarized in Table 4. (No correlations are shown with respect to the options of commercial paper and issuance of preferred shares because those alternatives received no scores.)

A correlation was established between the dimensions associated with the conditions for developing financial planning and access to financing. In general terms, the degree of correlation between the selected indicators is weak or very weak; in other words, a certain relationship between them was found but of a very low degree. It must be recalled that this set of dimensions of the financial planning variable showed a medium presence in the companies (a score of 1.20; see Figure 1). The biggest positive correlations are observed in access to foreign financing (0.289), to credit from suppliers (0.259) and to bank credit lines (0.230); in other words, a greater presence of planning elements could foster greater availability of resources from those sources.

On the other hand, the most pronounced negative correlations are observed in leasing (-0.273), decree of dividends on shares (-0.235), and reinvestment of profits (-0.153). Reinvestment of profits is one of the most widely used alternatives, which explains this negative correlation, with the inference that to the extent that there is improvement in the situation of planning at the companies, they will be able to gain access to new options for resources, thereby decreasing their dependence on their own funds.

Upon observing the correlations for the elements of financial planning, a similar result is clear, with weak correlations between indicators. Equally, sources of financing that have the greatest positive and negative correlations coincide. Credit from suppliers (0.279) and bank credit lines (0.309) maintain a weak positive correlation, because they would benefit from improvements in the financial planning process. The reinvestment of profits again shows a negative coefficient (-0.139).

The association between parameters and long-term sources follows the same tendency of weak correlations, in most cases positive ones, indicating that a continuous improvement in management would make it possible to increase access to financial sources. The presence of a very low, almost nonexistent correlation with funds from the reinvestment of profits is particularly noteworthy.

For the short-term analysis, the strongest relationship occurs in bank credit lines, which is conceptually logical insofar as when an organization is better able to plan its procedures and operations, it will receive a higher classification from the financial institutions for obtaining increased resources.

### TABLE 4. Financial planning and access to financing at Venezuelan SMEs

<table>
<thead>
<tr>
<th>ALTERNATIVES OF FINANCING</th>
<th>Financial planning conditions</th>
<th>Financial planning and control</th>
<th>Long-term parameters</th>
<th>Short-term parameters</th>
<th>Financial planning variable (*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Credit from suppliers</td>
<td>0.259</td>
<td>0.279</td>
<td>0.172</td>
<td>0.250</td>
<td></td>
</tr>
<tr>
<td>2. Bank credit line</td>
<td>0.230</td>
<td>0.309</td>
<td>0.418</td>
<td>0.286</td>
<td></td>
</tr>
<tr>
<td>3. Short-term bank loans (expiration less than one year)</td>
<td>0.028</td>
<td>0.145</td>
<td>0.058</td>
<td>0.075</td>
<td></td>
</tr>
<tr>
<td>4. Loans from public entities with short-term expiration dates</td>
<td>0.044</td>
<td>0.012</td>
<td>0.049</td>
<td>0.029</td>
<td></td>
</tr>
<tr>
<td>5. Credits guaranteed by accounts receivable (factoring)</td>
<td>0.198</td>
<td>0.088</td>
<td>0.022</td>
<td>0.149</td>
<td></td>
</tr>
<tr>
<td>6. Credits guaranteed by inventories</td>
<td>0.172</td>
<td>0.193</td>
<td>0.221</td>
<td>0.227</td>
<td></td>
</tr>
<tr>
<td>8. Long-term bank loans (expiration greater than one year)</td>
<td>-0.140</td>
<td>-0.156</td>
<td>0.137</td>
<td>-0.094</td>
<td></td>
</tr>
<tr>
<td>9. Loans from public entities with long-term expiration dates</td>
<td>0.022</td>
<td>0.035</td>
<td>0.090</td>
<td>0.051</td>
<td></td>
</tr>
<tr>
<td>10. Foreign financing</td>
<td>0.286</td>
<td>0.059</td>
<td>0.074</td>
<td>0.213</td>
<td></td>
</tr>
<tr>
<td>11. Leasing</td>
<td>-0.273</td>
<td>-0.231</td>
<td>-0.126</td>
<td>-0.232</td>
<td></td>
</tr>
<tr>
<td>12. Issuance of long-term bonds</td>
<td>0.189</td>
<td>0.196</td>
<td>0.266</td>
<td>0.204</td>
<td></td>
</tr>
<tr>
<td>13. Issuance of new common shares</td>
<td>0.177</td>
<td>0.094</td>
<td>0.018</td>
<td>0.156</td>
<td></td>
</tr>
<tr>
<td>15. Decree of dividend on shares</td>
<td>-0.235</td>
<td>-0.297</td>
<td>0.106</td>
<td>-0.176</td>
<td></td>
</tr>
<tr>
<td>16. Reinvestment of company profits</td>
<td>-0.153</td>
<td>-0.139</td>
<td>-0.011</td>
<td>-0.126</td>
<td></td>
</tr>
<tr>
<td>17. Other type of financing: Reserves for maintenance, related companies, prepayments by customers</td>
<td>-0.139</td>
<td>-0.174</td>
<td>0.126</td>
<td>-0.176</td>
<td></td>
</tr>
</tbody>
</table>

(*) average of the results obtained in the dimensions
Source: Drafted by the authors based on the questionnaire applied.
Note: No correlations are shown to the options 7 (commercial papers) and 14 (preferred shares) because those alternatives received no scores.
Additionally, the correlation of the sources of financing most used by the SMEs in the study (credit from suppliers, reinvestment of company profits, bank credit lines and long-term bank loans) with each item of the questionnaire (with correlations greater than 0.3) is analyzed in order to provide a more complete understanding of other possible connections.

The case of credit from suppliers turned out to be more greatly affected by aspects associated with the availability of specialized personnel in the financial area, the establishment of policies for managing working capital, identification of organizational weaknesses, consideration of strengths and weaknesses in the plan, definition of objectives and evaluation of their fulfillment, along with advance planning of short-term financial contracting.

The reinvestment of company profits in its operations is the second most widely used financial option and the most frequently utilized that provides long-term resources. Coinciding with previous analyses, its correlations with financial planning can be negative in most cases, for reasons already mentioned (the inference is that to the extent that better financial management helps to increase money from other sources, the importance of this option in the capital structure would decrease). That is the case with respect to the items regarding the definition of business objectives, drafting of a strategic plan, identification of those responsible for deviations from the plan and the use of external sources to finance company activities in the short-term; this latter aspect shows a tendency to finance short-term operations with resources from retained profits (permanent funds; Brigham and Houston, 2006) given the difficulty of gaining access to other alternatives.

At the same time, there are indications of a positive association with the item referring to knowledge of the liability/equity proportions handled by the company.

Another short-term source that was analyzed is the bank credit line, which demonstrates medium correlations with such varied aspects as the substitution of assets and the presence of planning for short-term sources. This trend is notorious, which suggests the share of short-term funds such as credit lines in financing long-term assets, a situation which would force the companies to continuously renew their banking commitments because their expiration occurs before recovery of the investments. This could be due to scarce access to resources that can be repaid in longer periods.

There is a clearly medium negative correlation with item 42, which establishes comparisons between the costs of resources; this could be explained by the fact that more than 50% of the companies (57.8%) have not established that the opportunity costs of equity tend to be greater than those of liabilities, and tend to prefer to use their own resources for financing (retained profits).

The alternative associated with long-term bank loans shows low correlation with the analysis of the cost of interest and the frequency of evaluation of the achievement of objectives (in this case a negative correlation, possibly explained by the 51.6% of companies that do not perform this evaluation or only do so sporadically).

**Conclusions**

The preliminary results show three general tendencies: The moderately formal use of formal strategic and financial planning procedures at the SMEs, insufficient coordination of these procedures and a discrete association between them and the level of access to sources of financing reported by the companies. In the first two cases, opportunities for improvement in the management of these organizations could lead to better conditions of access to varied sources of resources.

The final column of Table 4 shows the coefficients for the financial planning variable when considered as a whole, as an average of its indicators (62 items). The results are a reflection of what has been mentioned in the previous sections; although they involve weak levels of association between the two variables, there is evidence of a relationship between both components of business management. There is a clear positive correlation among traditional financing alternatives such as bank credit lines, credits guaranteed by inventories, credit from suppliers, the issuance of long-term bonds, short-term bank loans and the issuance of new common shares. In some of these alternatives, the companies demonstrated a very low level of access, the inference being that to the extent that they develop more formal financial planning and management procedures they would be able to gain greater access to the financial markets, as indicated in the specialized literature (Kogan Page et al., 2002; Páez, 2006; Little, 2005; Burk and Lehnman, 2004, among other authors already mentioned in previous sections).

Alternatives with greater presence at the companies that demonstrated negative correlations with financial planning particularly included reinvestment of profits, decree of dividends on shares and other types of financing cited
by those surveyed. This result is notable, in that it mostly involves internal sources that come from the company's operations themselves and which will be more easily used even when planning activities are not carried out. At the same time, as has already been stated, the inference here is that to the extent that they develop more formal business planning and management procedures and techniques, businesses can depend more on their internal sources and improve their access to third-party sources.

It is important to mention that the relatively low correlation coefficients in the indicators that were analyzed showed the existing relationship between the financial planning variables and access to financing at these companies, but are not the only element that has an effect on that behavior.

As has been concluded in earlier studies cited in previous sections, there are also other factors that affect access to financing for the SMEs, such as: Interest rate levels, availability of long-term savings in the financial markets, collateral requirements, lack of consolidation in the financial system, adaptation of risk classification techniques to the SMEs, bureaucracy in financial intermediation insufficient government support policies, deficiency in management processes, among some of the most relevant (Bid, 2002 and 2005; Beck et al., 2004a; Berger et al., 2002; Berger and Udell, 2005; Andriani et al., 2003; Zevallos, 2007).

It is necessary to continue researching this set of variables in the sector, to generate relevant knowledge that would help to surmount its deficiencies. The contribution generated through this work constitutes a new step on that path, fundamentally because it persists in seeking explanations within the companies, complimenting already available information and generating new questions for future initiatives.

At the same time, information-gathering tools and scales of measurement and analysis that have been designed in this research (Vera, 2010) facilitate an approach to the day-to-day practices carried out by the companies in this functional area, making it possible to compare their particular situation with other similar companies, and with companies at other levels, sectors or countries.

In general, it facilitates the detection of problems (and opportunities) in these management processes, providing valuable information to improve the performance of the SMEs, encouraging internal actions for improvement in each establishment while promoting the creation of support programs (trade associations, academic institutions, public and private entities) where mechanisms are established for training and advice that help to overcome the identified weaknesses.

It is hoped that future research can replicate the use of this methodology in other contexts and identify analogies with the Venezuelan case. Equally, studies can be carried out in other functional areas (marketing, operations, human resources and innovation) to more intensely focus on the characteristics of the internal management of the SMEs, as a factor to explain their capacities for growth and survival.

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