

## **Relationship between Firm Size and Export Performance: overtaking inconsistencies**

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Dissertation

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## Short Biographic note

Tatiana Maria Correia Monteiro was born in Porto (Portugal), in 1989. She has her bachelor grade in Economics, in the Faculty of Economics of the University of Porto (Portugal) in 2011. She joined the Master in Economics and Management program in 2011 and since 2011 she is working in Millennium Bank in the insurance financial products area, in Porto.

#### Abstract

The positive relationship between firm size and export behaviour is often considered certain. However, the vast number of studies in this area shows discrepancies in the findings: the majority of them confirm a positive and statistically significant relationship, some studies found no significant relationship and others suggested a negative association between firm size and export performance. This study attempts to clarify these conflicting findings in the export marketing literature by empirically examining the impact of firm size on export performance, by using different proxies for the variable 'firm size' and diverse indicators for the 'export performance' variable.

The main aim of this study is to contribute to a better understanding of the relationship between firm size and export performance using a sample of Portuguese firms, of different industries, to explicitly control for possible sectorial factors influencing the relationship in analysis. We found that using the same sample of companies, if we vary the proxies used to measure the Firm size determinant, even fixing the Export performance proxy we have opposite signals of the impact of the determinant in the export performance.

We expect that our findings open a research clue about the existing inconsistencies around firm size and export performance and provide export policy makers with information on which determinants are more important to improve export performance.

**Keywords:** Export Performance; Firm size; Relationship **JEL-Codes:** F10; F12; F23; L25; M31

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#### **1. Introduction**

Internationalization is a way for firms to survive, succeed (Majocchi *et al.*, 2005) and promote their economic growth (Archarungroj and Hoshino, 1998). Export seems a viable opportunity for all kind of firms, as a simple and quick way to access foreign markets.

Extant literature analyzes the relationship between firm size and export performance but the empirical findings appear to be contradictory (Majocchi *et al*, 2005). Competitive advantages can be found in both, large and small firms (Moen, 1999). Firm size can affect export behaviour in the search for economies of scale and to spread common expenses over expanded markets (Majocchi *et al*, 2005). On the other hand, competitiveness of small firms, more based on product quality, e.g., and their flexibility to enter and exit foreign markets (Bonaccorsi, 1992) provide a negative relationship.

Some authors consider there exist some inconsistencies in the results derived from the lack of an indicator measuring the international experience of firms and the impact of geographical diversity on export performance (Majocchi *et al.*, 2005). The use of different measurements for size, like the number of employees or the sales level of the firm (Archarungroj and Hoshino, 1998) can also lead to discrepancies in results.

The main aim of this paper is to contribute to a better understanding of the relationship between export performance, measured using different proxies (percentage of exports to sales or export intensity, export growth, export profit level, export market share) and size of the firm, measured through several indicators (the sales level, the number of employers, the sales/employers ratio, the investment level in R&D). In fact, despite a growing number of empirical studies (Verwaal and Donkers 2001; Gabbitas 2003; Kalafsky 2004; Majocchi 2005; Pla-Barber 2007), the question of the relationship between these variables is not clearly established.

In order to fulfill our objective, we begin by doing an exhaustive literature review in order to learn more about similar studies, about the determinants of export performance, and the impact of firm size.

This dissertation is organized as follow: besides this introduction, we review the relevant literature on internationalization issues, on the determinants of export

performance, on the impact of firm size and at last we review the similar studies and the relationship between firm size and export performance (Chapter 2). In Chapter 3, we briefly describe the methodology and data gathering of the similar studies and we describe the procedures to be undertaken. Finally, in Chapter 4 we present the results obtained.

# 2. Relationship between Firm Size and Export Performance: a Literature Review

In this chapter, a literature review on the topics regarding firm size and export performance is done. The chapter is divided in four parts. In Section 2.1., modes of internationalization and the internationalization theories are presented and discussed, followed by the debate on determinants of export performance in Section 2.2.. After it, the impact of firm size and firm size measures are discussed (Section 2.3.) and, subsequently, in Section 2.4., similar studies on the relationship between firm size and export performance are presented. The Chapter ends discussing the differences in the results obtained in the similar studies.

#### 2.1 Internationalization Issues

L. S. Welch, G. R. G. Benito and B. Petersen (2007), classified the foreign operation methods as contractual, exporting or investment modes. In contractual modes are included franchising, licensing, subcontracting and alliances. Exports can be indirect, direct through an agent or distributor, and through a subsidiary or sales office. Investment modes (FDI) are the most powerful way of entering in foreign market and the control level varies from minority share, to 50/50, to majority share or 100% owned. Trade is the most ancient method of foreign operation, by exporting and importing goods and services to and from different countries.

Exporting is a low risk and an inexpensive mode of entry in foreign markets and permits, therefore, to be fitted simultaneously in a larger number of markets. The main disadvantages are additional transport costs, distribution and marketing costs and, depending on the country, additional financial and legal risks. Some costs vary with the volume exported but others not. Some fixed costs can be recovered if the firm does not succeed internationally but the same cannot be told about the sunk costs (Gabbitas and Gretton, 2003). Fixed costs associated with entry are an important factor in the decision to export. If exports become a success some activities may be internalized.

The Uppsala internationalization process model, developed by Johansone Wiedersheim-Paul (1975) and Johanson and Vahlne (1977), view internationalization as a multilateral network development process in which the firm invest resources and gradually acquires knowledge about foreign markets. Knowledge and learning coupled with a growing market commitment and trust create opportunity development. Firm tends to gradually increase its level of involvement in a specific foreign market. It is a gradual approach to internationalization that assumes four developmental stages: sporadic exports, exports through an agent, commercial subsidiary and productive subsidiary. The stages assume an incremental resource commitment and cumulative experience about the market. Another feature of the model is that firms tend to internationalize to markets where the psychic distance is lower. Some factors difficult knowledge about foreign markets, as culture, language and education level. The "establishment chain" is incremental, starts in neighboring markets and subsequently moves in terms of psychic distance (Johanson and Vahlne, 2009).

Using this logic, firms will look for growth opportunities in the domestic market first. When the market becomes limited they choose to either stagnate or diversify their geographic market. By the time a firm begins exporting, but smaller firms will grow in the domestic market first (Calof, 1994).

Rather that evolving through a series of international stages, as is thought to be the case for many firms, science-based firms are likely to encounter international pressures much earlier in their existence. In a highly globalized industry once a new product is developed there is an international demand waiting for it (Pla-Barber and Alegre, 2007). Most of the firms that started exporting a short time after establishment are small with technologically sophisticated products. This phenomena is called "International New Ventures", "Born Global" or "High-Technology Start-Ups" (Moen, 1999).

Wolff and Pett (2000) defend that small firms do not need always to progress through stages but the types of resources available determine their competitive pattern.

According with the resource based view, each firm gathers a set of resources and competencies that give them competitive advantages, especially if they are valuable, rare, cannot be imitated and is explored by the organization.

Other Theories of Internationalization explain the system of the firms in the choice for internationalization modes and processes.

The Internalization Theory of Buckley & Casson (1976) with the contribution of the Transaction Cost Theory of Hennart (1982), states that multinational enterprises exist when firms are more efficient than the markets in the organization of international economic activities. It is more likely to happen in imperfect markets with high transaction costs, information, negotiation and control costs, which generate incentives to internalize. So, the internalization theory is based on the assumption that transaction costs are high in foreign activities and this increases the incentive to internalize such activities by direct production abroad rather than via market transactions or licensing.

Dunning's (1980) approach to internationalization consists of an attempt to analyze the decisions in terms of *ownership*, *locational* and *internalization* (OLI) advantages. Associating countries features (relative advantages, location) with intrinsic elements of firms (competitive advantages) attempts to explain the international strategy of the firm. Exporting is the adopted strategy when only exist the ownership advantage, related to competitive advantages of the firm. When ownership and location advantages are present, firms can choose for licensing or franchising. FDI is only an option when the three conditions get together.

#### 2.2 Determinants of export performance

Despite the internationalization theories, exporting represents a viable strategic option for firms to internationalize and has remained the most chosen mode of entry in foreign markets (Sousa *et al.*, 2008).

In some studies there is the assumption that export *per se* is sufficient to impute success to a firm and there is a dichotomy between exporters and non exporters firms. However, other studies consider the dimension of success by position a firm's export performance. (Aaby and Slater, 1989)

Different motivations to export and several determinants of export performance dictate the dimension of export success of a firm.

Moen (1999) analyzed the export motives of Norwegian firms and the most important were the proactive motivations, such as profit potential in export markets, and risk reduction by the need to reduce dependence on the home market. Schlegelmilch and Crook (1988) also mentioned that the primary motive for exporting is a saturated home market and the resulting concern of senior management regarding decreasing domestic sales. For a small country as Portugal, exporting can be a way to overcome the small domestic market.

Superior export performance is of vital interest to three major groups: public policy makers, business managers and marketing researchers (Katsikeas et al., 2000) and so there has be paid considerable attention to the determinants of export performance.

Zou and Stan (1998) and Sousa *et al* (2008) review and synthesize the extant literature on the determinants of export performance that is considered fragmented, diverse and inconsistent.

Based on the resource-based theory and on the contingency theory the authors classify the determinants into internal and external, and also into controllable and noncontrollable. This framework is a broader overview of export performance compared with other studies on the determinants, as follows.

Table 1: Firm-level determinants of export intensity from Schlegelmilch and Crook	
(1988)	

Monogoment expectations and percentions	Attitudes towards risk, to foreigners and		
Management expectations and perceptions	the perceived significance of marketing		
Market variables	Location, transport costs		
Differential advantages and resources of the	R&D activity, uniqueness of the product,		
firm	managers' language skills		
Firm demographies	Firm size, product life-cycle, domestic		
Firm demographics	sales growth		

·	
	Demographic, experiential, attitudinal,
Managerial factors	behavioural characteristics of the decision
	maker
	Demographic aspects, operating elements,
Organizational factors	resource characteristics and goal and
	objectives of the exporting firm
	External factors shaping domestic and foreign
Environmental factors	environment beyond the control of the
	exporting organization.

Table 2: Firm-level export performance assessment from Katsikeas et al (2000)

Managerial factors, organizational factors and environmental factors affect export performance and form the complex international business environment (Katsikeas *et al.*, 2000).

Management characteristics	Attitudinal characteristics, skill based
Wanagement characteristics	characteristics and behavioural characteristics
	Firm size, technology level, foreign contacts and
Firm's characteristics	networking, knowledge
	Utilization of international marketing research,
Export marketing strategic capabilities	segmentation and targeting and product
	capabilities

 Table 3: Firm-level determinants of export performance from Nazar and Saleem (2009)

#### - Internal: Management characteristics

Most studies consider that export performance is under the control of the firm and its management (internal and controllable factors). In this case a good or poor export performance should be attributed to management's work. (Zou and Stan, 1998)

Management attitudinal determinants that affect the export performance of the firms are management's international orientation, management's export commitment, management's perceived export advantages and barriers of exporting, management perception toward competitiveness and management's customer orientation.

Management skill based determinants of export performance are export experience, foreign language proficiency and education level (Nazar and Saleem, 2009).

#### - Internal: Firm characteristics

Some authors verify that firm size is has a positive direct influence on export performance (Calof, 1994; Majocchi *et al*, 2005; Williams, 2011) but this determinant is further explored in the next point.

Firm size has also an indirect impact by allowing the construction of foreign networking relationships. The results of Babakus *et al.* (2006) study show that firms with foreign ties have better export performance. Mais and Amal (2011) consider that the inclusion in networks may play an important role in reducing costs of export activities, mainly by accelerating such processes via knowledge sharing. Grandinetti and Mason (2012) also defends positive effects of networking in export performance through other international modes, such as FDI or joint ventures, by the creation and sharing of information and knowledge with foreign partners.

The technology profile is also a structural factor of the firm that would affect positively export performance in the case of science-based firms (Pla-Barber and Alegre, 2007) and firms with high "research effort" tend to export a high proportion of their output (Kumar and Siddharthan, 1994).

It was also investigated if the age of the firm impacts on its ability to export. The resource-based view of venture internationalization predicts that older firms will be better able to build an international basis because they generally have a larger stock of resources than younger firms. Age also means learning and knowledge (Williams, 2011).

- Internal: International marketing strategy

In a global and competitive world factors related to export marketing strategy are frequently cited as important determinants of export performance.

The capabilities to adapt marketing mix, product, price, promotion and distribution, can be a good strategy for firms when entering in foreign markets. An appropriate "fit" between strategy and the context where firms operate can lead to superior export performance than the only adoption of marketing strategy standardization or adaptation. (Sousa *et al.*, 2008)

- External

The institutional framework exerts influence on the firm's mode of entry to the international market and in the strategy adopted in each country. Firms located in countries with greater openness to foreign markets, with sophisticated domestic demand and efficient support agencies, tend to perceive themselves as more qualified to enter demanding markets or to deploy bolder strategies in international activities. (Mais and Amal, 2011)

Many nations have developed public programs to stimulate and assist small firms in an international markets engagement for reasons linked to economic growth, employment and balance of payments. However, the stimulating programs should pay careful attention to the competitive advantage profile of the firms. (Moen, 1999)

- Recent studies of determinants

Sousa *et al* (2008) notice the appearance of market orientation as a new key determinant of export performance, which still is in an early stage of development. Market oriented firms are those which try to create superior value for buyers and superior performance for the business. Export market orientation is positively related to the export performance because firms identify and respond to customer needs and will be able to satisfy them better than other competitors.

Some authors find that FDI of firms exert a positive influence on export performance by acquiring useful resources in proprietary investments, partnerships and supply relationships (Grandinetti and Mason, 2012). Multinational corporations can overcome fixed costs, through product fragmentation and presence of production facilities in different countries, and can indirectly promote locally firms to export, i.e. export spillovers through information externalities, demonstration, and imitation and competition (Jongwanich, 2010).

	_		
			Perceptions about export barriers
		Attitudinal	Perceptions about export advantages
		Autualia	Export commitment
	Management characteristics		International orientation
			Language proficiency
		Skill based	Education level
			International experience
			Nº of employees
		<b>T</b> ' 0'	Sales volume
		Firm Size	Sales employees ratio
			Investment level in R&D
		Technology level	R&D
Internal	Firm characteristics	Foreign contacts and	Labor and supplier market (domestic networking)
		networking	Costumer market and capital market (foreign networking)
		Knowledge	
		Age	Number of years in business
		International experience	Number of years in exporting
		Location	Information centers
			Product adaptation
		Marketing mix	Promotion adaptation
			Channel adaptation
	Export marketing strategy		Price adaptation
		Product capabilities	Uniqueness of the product
			Distribution
			Support/after sales service
		Culture	Cultural similarity
	Foreign market characteristics	Governmental regulations	Legal and Political
External		Market competitiveness	Economic similarity, channel accessibility
]	Domestic market characteristics	Export assistance	Institutions
		Environmental hostility	National export policy, currency

**Table 4: Determinants of Export Performance** 

Based on Zou and Stan (1998), Sousa et al (2008)

#### 2.3 Firm Size

Sometimes the source of competitive advantage can arise within the firm (Gabbitas and Gretton, 2003). Considering organizational resources, that can be proxy by firm size, there are non-imitable managerial abilities that transform financial and physical resources into competences (entry barriers). In this perspective firm size has impact on export performance (Majocchi *et al.*, 2005).

Many researchers hypothesize that small firms export a lower share of their sales because of factors as limited resources, scale economies and high risk perception in international activity (Bonaccorsi, 1992).

The effect of economies of scale can explain the increment of international competitiveness. Larger firms can lower average production costs (cost per unit of output) as output increases, and have lower average unit costs than 'smaller' firms. They can also intend for economies of scope being more efficient in the production of a number of different, usually related, products or activities than it is for a number of firms to produce the products or engage in the activities separately (Gabbitas and Gretton, 2003).

Larger firms can also take advantage because of the importance of R&D expenditure, risk taking abilities and possible price discriminatory behavior (Patibandla, 1995).

However, firm size does not guarantee increased export intensity. Above a certain size firms may switch to foreign direct investment. Firms with high export intensities can lower total costs and avoid trade restricting interventions by foreign governments (Schlegelmilch and Crook, 1988).

Other studies defend that economies of scale are not as important when compared with competitive strategies such as product quality and innovation (Kalafsky, 2004). Small firms may also be able to realize economies of scale when they specialize in exports and develop export relationships of significant size, that can benefit from economies of scale of transaction costs and therefore have higher export intensities (Verwaal and Donkers, 2002).

Smaller firms should not be considered less competitive, they have different competitive advantages. The competitive advantages of smaller firms are linked to

product uniqueness or technologically sophisticated niche products and, on the other hand, they are less competitive than larger firms in terms of marketing (Moen, 1999). Factors such as innovation and R&D are important for success in exporting but the role of these factors differ between industries (Wagner, 2001). Smaller firms can also succeed internationally if they develop comprehensive relationships with their trade partners, and take strategies such as developing products for these markets (Kalafsky, 2004).

Verwaal and Donkers (2002) in their study use the size of the export relation as a main predictor of export intensity, regardless of the size of the firm. Smaller firms are seen as being quicker and more flexible than the larger ones due to structural simplicity, and therefore that efficient adaptation can provide them a competitive advantage in responding to the specific requirements of foreign buyers when export relation size increases.

Babakus *et al.* (2006) used firm size as a control variable in their study about export performance, because it is a measure of firm's resource base, can confound relationships established and may influence the level of interactions and cooperation among firms. So the model is constructed with the control variable firm size (measured by the number of employees) to delineate better the relationships proposed.

Firm size can be measured by different proxies: number of employees, sales volume, sales employees' ratio, assets, investment level in R&D.

Sousa *et al.* (2008) point out the geographic factor for firm size in different studies: the meaning of the terms 'small', 'medium' and 'large' varies greatly in an international context.

#### 2.4 Relationship between Firm Size and Export Performance

When we are studying the relationship between firm size and export performance special attention must be taken to the proxies used to measure the variables in different samples.

Export performance can be measured in several ways:

Export intensity	Exports as a percentage of total sales or export sales ratio		
Export earnings ratio	Percentage of earnings derived from exports		
Export growth	Whether the firms' exports had increased in the previous 12 months	Archarungroj & Hoshino (1998)	
Expected export growth	CEO's forecast of export growth in the next 12 months	(1990)	
Export experience	Number of years the firm has been in the export business		
Export market coverage	Number of countries the firm is exporting to		
Propensity to export	Whether firms are exporters, level of export sales (using nine size categories), and the year they first started exporting	Calof (1994)	
Export profitability	4 item subjective measure: perceived export profitability, development in export share compared to competitor, development in market share in export markets and the overall rating if the company export performance	Moen (1999)	

**Table 5: Proxies of export performance** 

Table 6 presents some of the similar studies about the relationship considered in which different proxies of firm size and export performance were used and different results were obtained.

Archarungroj & Hoshino (1998) conclude that the number of employees may not be a good indicator of firm size since there are only significant differences in export intensity and export earnings ratio among firms when the sales volume is used as the size variable. On the other hand, Majocchi *et al* (2005) find a highly significant relationship between firm size and export intensity, when size is measured by number of employees.

However Nazar and Saleem (2009) conclude that firm size has positive effect on export performance if measured in terms of total sales and has negative effects are found on export profits if measured by number of employees a firm have.

Moen (1999) find that firm size and export intensity is not significantly related. Pla-Barber & Alegre (2007) find that firm size is not a preponderant factor for the internationalization of biotech firms and prior research had generally focused on manufacturing industries without taking into account the implications of dealing with heterogeneous technology profiles.

#### **Table 6: Similar studies**

Similar Studies	Proxies used for Firm Size	Proxies used for Export Performance	Other variables for export performance	Results
	Sales volume	Export intensity Export earnings ratio Export growth Expected export growth Export experience Export market coverage	Export attitudes (export profit, risk and cost compared to domestic	- 0 0 + 0
Archarungroj &			market)	
Hoshino (1998)		Export intensity		0
		Export earnings ratio		0
		Export growth		0
		Expected export growth		0
	Number of employees	Export experience Export market coverage		+
		Export market coverage	Export attitudes (export profit, risk and cost compared to domestic market)	+
Bonaccorsi (1992)	Number of employees	Export intensity		?
. ,	Sales volume			+
Calof (1994)	Number of employees	Propensity to export		+
· · ·	1.5	1 5 1	Export markets	+
Esteve-Pérez <i>et al</i> (2011)	Number of employees	Propensity to export	-	-
Gabbitas, O. & Gretton, P. (2003)	Sales volume Number of employees Total assets	Export intensity		nss
Kalafsky (2004)	Number of employees	Export intensity		0
Majocchi et al	Number of employees	Export intensity		+
(2005)			Age of the firm	+
Moen (1999)	Annual turnover Number of employees	Export intensity Export profitability Export growth	Competitive advantages Export motives	nss
Pla-Barber &	Sales volume	Export intensity		nee
Alegre (2007)	Number of employees	Export intensity		nss
Schlegelmilch, B. B. & Crook, J. N. (1988)	Number of employees	Export intensity	Differential advantages/ resources Perceived attractiveness of location Managerial attitudes	+ NL 0
Verwaal, E. &	Sales volume	Ennertintens'		+ NL
Donkers, B. (2001)		Export intensity	Export relation size	+
Williams (2011)	Number of employees	Export propensity		+

NL: non linear; nss: not statistically significant

Using a representative sample of Spanish manufacturing firms, Esteve-Pérez *et al.* (2011) conclude that the threshold size to enter Eurozone markets has been reduced as a result of the introduction of the euro. The introduction of the euro has weakened the role of firm size in the decision to export to the Eurozone and, moreover, the change in the proportion of exports to the European Union is negatively related to firm size.

Kumar and Siddharthan (1994) explain that the mixed findings result from the nonlinearity of the relationship between firm size and export performance. Large oligopolistic firms enjoying protected access to domestic market are generally less compelled to export and therefore an inverted-U shaped relationship is possible. Schlegelmilch and Crook (1988) found a non-linear relationship in their study what is explained by the fact that above a certain size, firms may switch to foreign direct investment instead of export operations.

Mixed results may also arise from samples including firms from many sectors, using different measures for firm size and also from the size variable being itself moderated by other variables, such as product cycle, maturity or industrial concentration (Sousa *et al.*, 2008).

Calof (1994) stresses that differences in measurement, geography, firm size, and industry explain why results in similar studies have been inconsistent, and these differences make direct comparisons of the results difficult.

#### 3. Methodological considerations

In this chapter we start to make a brief review on the methodology used in the similar studies (Section 3.1). Then we describe the procedures adopted in our study to collect information about exporting firms (Section 3.2).

#### 3.1 Similar studies: a brief review

The relationship between size and export behavior is explored by diverse theoretical studies. The results differ but the methodology does not diverge much, as can be observed in the following table.

Author	Year	Country	Industrial Sector	Method of analysis	Sample Size	Response Rate (%)	Statistical Analysis	
							Anova	
Archarungroj & Hoshino	1998	Thailand	Multiple industries		86	22,9	Kruskall- Wallis	
				Questionnaire			Spearman	
<b>I</b> Z 1 6 1	2004				82		Anova	
Kalafsky	2004	USA	Machine Tool			36	Spearman	
Moen	1999	Norway	Multiple industries		Questionnaire	335	23	Factor analysis
							Anova	
Pla-Barber & Alegre	2007	France	Biotechnology	-	121	55	SEM	
Schlegelmilch, B. B. & Crook, J. N.	1988	UK	Mechanical engineering		130	26	Regression	
Williams	2011	Jamaica	Multiple industries	-	92	15	Regression	
			aly Multiple industries -				Anova	
Bonaccorsi	1992	Italy			-	-	Kruskall- Wallis	
	1004	G 1	Multiple industries		-	-	Anova	
Calof	1994	Canada					Spearman	
Esteve-Pérez et al	2011	Spain	Multiple industries	Survey	798	-		
Gabbitas, O. & Gretton, P.	2003	Australia	Multiple industries	-	1500	-	D	
Majocchi et al	2005	Italy	Multiple industries	-	142	-	Regression	
Verwaal, E. & Donkers, B.	2001	Netherlands	Multiple industries	· ·	642	21,5		

Similar studies took place in developed countries from Europe and North America, with the exception of Australia, Jamaica and Thailand, and between 1992 and 2011. Most of them take multiple industries to test the relationship between firm size and export performance.

Information is collected from questionnaire, data bases, or both, survey.

Of the selected studies, the sample population varies considerably among themselves. Only one study has a sample of 1500 companies, the rest is below this value. All of them do a quantitative analysis.

We make a descriptive analysis in order to observe the relationship between the variables in Portuguese firms, using different proxies to measure the export performance (percentage of exports to sales or export intensity, export sales growth, export market coverage) and size of the firm (the sales level, the number of employees, the sales employees ratio, the investment level in R&D). We collect information in a statistical data base and companies' information through questionnaires, as most of the authors did in their studies.

#### **3.2 Procedures**

Questionnaire is the chosen method to obtain the perceptions of the international manager about the internationalization process of the firm and some characteristics of the firm that cannot be obtained through data base.

The data base selected is SABI - Bureau van Dijk, which contains accounting information, and other, from 20.000 Portuguese companies in a period of 10 years.

Questionnaire items were adapted from the determinants of export literature. It was sent by email to the 300 largest companies from SABI, ranked by turnover according to latest available year, 2011, and classified as industry, regarding economic activity (NACE Ver. 2 Primária 10 a 32).

The relationship between export performance and each one of its determinants is better explored by questionnaire. It is important to characterize Portuguese firms with regard to the determinants of exports, to characterize human resources of firms, and their view on the importance of certain economic and social factors that affect exports. The following table summarizes the determinants considered in the literature as well as the measurement variable and the sources of data collection.

			Measurement of the variable	Source
	Management characteristics	5 points scale: risk and cost perceptions		Quest #14 #15
		Attitudinal	5 points scale: profit and others perceptions	Quest #16 #17
			number of employees that speak a foreign language	Quest #4
		Skill based	number of employees with bachelor, MBA	Quest #3.1 #3.2 #3.3 #3.4
			number of employees that had worked abroad	Quest #5
			number of employees	Quest #3
		Firm Size	Sales volume	SABI
		FILIII SIZE	Sales employees ratio	SABI
al			Investment level in R&D	SABI
ern		Technology level	R&D	SABI
Internal	Firm characteristics	Foreign contacts and	5 points scale: importance of domestic network	Quest #18
		networking	5 points scale: importance of foreign network	Quest #19
		Age	Number of years in business	SABI
		International experience	binary: exporter since the beginning or not; number of years exporting; number of markets	Quest #6 #7 #9
	Export	eting Marketing mix	5 points scale: product adaptation	Quest #21
			5 points scale: promotion adaptation	Quest #22
	marketing strategy		binary: choose a local distributer or not	Quest#8
	sualegy			
	strategy		binary: price is different in each country or not	Quest #23
		Culture		Quest #23 Quest #10
	Foreign market	Culture Governmental regulations	or not	-
ternal			or not 6 options about cultural similarity 5 points scale: importance of legal and	Quest #10
External	Foreign market	Governmental regulations	or not 6 options about cultural similarity 5 points scale: importance of legal and political factors 5 points scale: importance of local	Quest #10 Quest #11

**Table 8: Determinants of export performance** 

The questionnaire was sent by e-mail in Portuguese, introduced with the description of our research project and the structure of the questions set. The use of email allowed us to solve any problem concerning the questionnaire quickly and to carry out a follow-up on the sample. A total of 20 responses were received but only 19 are valid and used in the analysis.

#### 4. Firm size and Export Performance: data analysis and results

In this chapter we make a descriptive analysis on the information obtained through questionnaire and data base. In the analysis we follow the structure of table 8, about the determinants of export performance.

We start to describe the sample obtained (Section 4.1), the management characteristics (Section 4.2) of export performance, then the firm characteristics (Section 4.3). We also describe the export marketing strategy (section 4.4), the foreign market characteristics (Section 4.5) and the domestic market characteristics (Section 4.6). In the Section 4.7 we analyze the determinants of both, firm size and export performance, and the impact of using different proxies to test their relationship.

#### 4.1 Sample analysis

We obtained a sample of 19 firms, representing 6,3% of the population. The sample size constitutes a limitation of this study.

Most of the firms that respond to the questionnaire are from the manufacturing sector; only 3 are from the construction sector and other 3 from a non specified sector ("Other").

In average, the firms have 268 employees and present 44.708 thousand Euros as sales volume. In our analysis we divide the firms in groups: above the average number of employees, below the average number of employees, and above the average sales volume and below the average sales volume.

#### 4.2 Management characteristics

We start to characterize the attitudinal determinants of export performance. The firms of our sample have in average high risk, cost and profit perceptions about operating abroad. When we consider the group of firms with sales volume higher than average, they present higher risk and profit perception than the ones lower the average. The cost perception is higher for firms lower than average but the difference is not very relevant.

We get similar results considering number of employees. Firms with number of employees lower than average have higher risk and cost perception than the ones above the average. But profit perception is higher for firms with the number of employees above the average.

14 firms consider the increase of sales volume as the major advantage of export (74%) but also the diversification of customers and markets (63%) is chosen for 12 firms.

When we analyze the responses through groups, the main advantages for "lower than average" groups, considering sales volume or number of employees, continues to be the increase of sales and diversification of customers and markets.

For "higher than average" firms of sales volume all of them see the increase of sales volume as an advantage of export. But in this group, another advantage appear to be significant the raise of income from operations, especially when considering the number of employees.

Skill based characteristics show us that only 19% of the total employees speak a foreign language and the number of persons with language proficiency is higher in the groups "lower than average" considering sales volume and number of employees.

The majority of employees have done only elementary/basic school in all groups of firms considered.

The results in the groups "lower than average" in sales volume or number of employees are better than in "higher than average" so we cannot consider education level as a strong determinant of export performance in this sample.

Only 5% of the total employees had worked abroad and again, groups of "lower than average" of the two proxies present better results than "higher than average" groups.

Attitudinal		Sales	volume	Number of employees		
Average of 5 points scale	All firms	lower than average	higher than average	lower than average	higher than average	
risk perception	2,84	2,79	3,00	3,00	2,67	
cost perception	3,63	3,64	3,60	3,70	3,56	
profit perception	3,53	3,43	3,80	3,40	3,67	
Number of firms (%)						
higher sales volume	74%	64%	100%	60%	89%	
higher income from operations / sales company	53%	50%	60%	30%	67%	
personal satisfaction of managers	0%	0%	0%	0%	0%	
diversification of customers / markets	63%	64%	60%	80%	44%	
other export perceptions	11%	7%	20%	0%	22%	
Skill based						
Number of employees (%)						
Speak a foreign language	19%	22%	18%	32%	16%	
Had work abroad	5%	7%	3%	5%	6%	
MBA/Master/Post graduate	2%	3%	2%	4%	2%	
Bachelor	10%	10%	11%	14%	9%	
High school	18%	23%	15%	33%	14%	
Elementary/basic school	41%	38%	49%	37%	44%	

**Table 9: Management characteristics** 

#### **4.3 Firm characteristics**

Investment level in R&D is in average of 4067 thousand euros. However, there are some extreme values what condition the division of this characteristic through "lower than average" and "higher than average" of sales volume or number of employees. The first group gather the two really high values of investment level in R&D hence the disparity of values in the categories.

Foreign contacts and networking have some importance for the firms of our sample. The importance of domestic network is higher in the groups "lower than average" of sales volume and number of employees and the foreign network is considered more important for both groups "higher than average".

#### **Table 10: Firm characteristics**

	Sales	volume	Number of employees		
Investment level in R&D	All firms	lower than	higher than	lower than	higher than
mvestment level m K&D	All IIIIIS	average	average	average	average
(thousand euros)	4 067	5 397,00	75,25	7 113,22	149,43
Foreign contacts and networking					
Average of 5 points scale					
Importance of domestic network	3,05	3,07	3,00	3,30	2,78
Importance of foreign network	2,89	2,86	3,00	2,70	3,11
Number of years in business	44	51	25	50	37
International experience					
Number of years exporting	34	39	19	39	28
Exporter since the beggining	58%	57%	60%	60%	56%
Number of markets	27	23	37	22	32

About international experience the groups "lower than average" are exporting for a superior number of years and more than half of the firms are exporters since the beginning of the activity.

However, "higher than average" firms from both groups are exporting for a superior number of markets than the "lower than average" export.

#### 4.4 Export marketing strategy

Product adaptation has relevant importance for all firms. "Lower than average" firms, considering sales volume and number and employees, attribute more importance to promotion and price adaptation than "higher than average firms".

"Lower than average" firms typically rely on a local distributor in the country of destination.

		Sales	volume	Number of employees		
Average of 5 points scale	All firms	lower than	higher than	lower than	higher than	
Average of 5 points searc		average	average	average	average	
Product adaptation	3,37	3,29	3,60	3,60	3,11	
Promotion adaptation	2,79	2,93	2,40	3,30	2,22	
Price adaptation	84%	86%	80%	100%	67%	
Choose a local distributer	47%	57%	20%	60%	33%	

**Table 11: Marketing Mix** 

#### 4.5 Foreign market characteristics

Most of the firms of our sample start to export to countries geographically closer and with language very different from Portuguese.

The geographic factor is the most relevant is all groups follow by language differences and cultural similarity. We note that firms "higher than average" considering sales volume or the number of employees do not go to very distant countries when they start exporting.

The firms do not give a relevant importance to legal and political factors. "Lower than average" firms attribute more importance to local infrastructure than "higher than average" firms, in both groups sales volume and number of employees.

		Sales	volume	Number of employees		
Number of firms (%)	All firms	lower than average	higher than average	lower than average	higher than average	
Geographically closer	57,89%	50,00%	80,00%	60,00%	55,56%	
Culturally closer	31,58%	35,71%	20,00%	40,00%	22,22%	
With similar language	26,32%	21,43%	20,00%	30,00%	11,11%	
Geographically very distant	5,26%	7,14%	0,00%	10,00%	0,00%	
Totally different in terms of culture	15,79%	7,14%	20,00%	10,00%	11,11%	
With language very different from Portuguese	36,84%	42,86%	20,00%	30,00%	44,44%	
Average of 5 points scale						
Importance of legal and political factors	2,32	2,36	2,20	2,20	2,44	
Importance of local infrastructure	3,11	3,21	2,80	3,20	3,00	

#### Table 12: Foreign market characteristics

#### 4.6 Domestic market characteristics

Firms of our sample attribute moderated importance to domestic market characteristics. "Higher than average" firms resort more often to organizations of exporting support (as Embassies) than do the "lower than average" ones.

The competitiveness in the domestic market is considered an important factor in the decision to internationalize.

"Higher than average" firms attribute more importance to competitiveness in domestic market and the difference to the "lower than average firms" is bigger when we are considering sales volume.

		Sales	volume	Number of employees	
Average of 5 points scale	All firms	lower than average	higher than average	lower than average	higher than average
Run frequency to organizations to support exports	2,79	2,71	3,00	2,60	3,00
Importance of the competitiveness	3,21	3,07	3,60	3,10	3,33

Table 13: Domestic market characteristics

#### 4.7 Relationship between firm size and export performance using different proxies

To contribute to a better understanding of the relationship between firm size and export performance we use different proxies to measure both. Varying the proxies used the results also vary.

When we measure firm size with sales volume the relationship is only positive for export market coverage. Export intensity and export growth are negatively related to firm size.

Using the number of employees a positive relationship is found with export intensity, export growth and export market coverage.

With sales employees ratio the results are the opposite, a negative relationship with all the measures of export performance.

The use of investment level in R&D as a proxy of firm size results in a positive relationship with export intensity, growth and market coverage.

We can conclude that using the same sample (the same companies), if we vary the proxies used to measure the *Firm size* determinant, even fixing the *Export performance* proxy (analysing each column of Table 14, one at a time), we have opposite signals of the impact of the determinant in the export performance. If we analyse the rest of the table in the same way, we can conclude that different ways of measuring the firm size

results in different impacts in export performance whatever it is measured by the Export intensity, Export growth or Export market coverage.

Table 14: The relationship between firm size and export performance using different
proxies

			Export Performance Proxies				
			Export intensity = Exports/Total sales	Export growth =(export sales n - export sales n- 1)/export sales n-1	Export market coverage = number of export markets		
		Companies with lower than average	58,2%	24,25%	23		
	Sales volume (x1000 euros)	Companies with higher than average	57,9%	14,85%	37		
		Signal (+ size => + performance)	-	-	+		
		Companies with lower than average	49,8%	19,84%	22		
		Companies with higher than average	67,5%	23,92%	32		
Firm Size Proxies		Signal (+ size => + performance)	+	+	+		
		Companies with lower than average	61,8%	24,54%	29		
	Sales employees ratio	Companies with higher than average	38,6%	7,02%	15		
		Signal (+ size => + performance)	-	-	-		
		Companies with lower than average	54,5%	19,72%	26		
	Investment level in R&D (x1000 euros)	Companies with higher than average	68,5%	27,51%	29		
		Signal (+ size => + performance)	+	+	+		

In a similar analysis, if we fix now the proxy used to measure the *Firm size* and analyse what happens when we vary the *Export Performance* proxy, we can see that, the conclusion about the signal (impact of one on the other) is more consistent but, also, with some contradiction (when we use Sales volume proxy to measure the Firm size).

Although these results can only be analysed in an exploratory perspective (due to the sample size), we can clearly see that the inconsistencies observed in the literature since long ago among studies (authors that argue that the size has, definitively, a positive impact on the results of the exportation – e.g. Nazar and Saleem (2009), Calof (1994) Majocchi *et al* (2005) – and authors that found a negative relation – e.g. Archarungroj & Hoshino (1998)) could result from the use of different measures to the same determinate.

#### Conclusion

Nowadays, internationalization seems a viable opportunity for all kind of firms (small and large companies), as a simple and quick way to access foreign markets. Extant literature analyses the relationship between firm size and export performance but the empirical findings appear to be contradictory.

The main purpose of this research was to contribute to a better understanding of the relationship between export performance, measured using different proxies (percentage of exports to sales or export intensity, export growth, export profit level, export market share) and size of the firm, measured through several indicators (the sales level, the number of employers, the sales/employers ratio, the investment level in R&D).

In order to fulfill our objective, we began by doing an exhaustive literature review and, then, we analyse results of a questionnaire survey sent to a sample of Portuguese different industries' firms in order to conclude about the relationship between firm size and export performance We found that if we vary the proxies used to measure the Firm size determinant, even fixing the export performance proxies we have opposite signals of the impact of the determinant in the export performance.

The main limitation of this study was the low number of answers we have. Is inhibited us to study the significance of the impacts using different proxies. For future work, we suggest using companies of different countries in order to analyse the possible impact of regions on the relationship.

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#### Annex

## Determinantes e importância das exportações

Este questionário pretende investigar os determinantes relativos ao desempenho exportador da empresa.

Realço o caráter de confidencialidade e sigilo com que todos os dados serão tratados. Ao responder a este questionário lembre-se de que apenas estamos interessados na sua opinião, pelo que não existem respostas certas ou erradas.

O questionário é constituído por 23 perguntas. Apenas as primeiras pedem alguns dados da empresa sendo as restante de resposta rápida (tipo sim/não ou escala de concordância), e está dividido em 2 páginas.

\* Required

#### Informação Geral

1. Nome da empresa: \*

2. Tipo de setor de atividade na qual a sua empresa opera: \*

3. Número de trabalhadores da empresa \*

#### Caraterização dos recursos humanos

3.1. Número de trabalhadores com MBA/mestrado/pós-graduação (ou mais): \*

3.2. Número de trabalhadores com licenciatura:\*

3.3. Número de trabalhadores com 12º ano (ou equivalente): \*

3.4. Número de trabalhadores com ensino básico/primário: \*

4. Quantos trabalhadores falam/dominam uma língua estrangeira?\*

5. Quantos trabalhadores já trabalharam no estrangeiro? \*

#### Caracterização das exportações

6. Há quantos anos a empresa exporta? \*

7. Para quantos países exporta atualmente? (aproximadamente) \*

8. Recorre, normalmente, a um distribuidor no país de destino?\*

- Sim
- Não

9. E sempre foi exportadora? (desde a sua fundação) \*

- Sim
- Não

10. Quando começou a exportar começou por países (pode assinalar mais do que uma opção): \*

- Geograficamente mais próximos
- Culturalmente mais próximos
- Com língua semelhante
- Muito distantes geograficamente
- Totalmente diferentes em termos de cultura
- Com língua muito diferente da portuguesa

11. As leis/regulamentos/incentivos/políticas desse(s) país(es) foram importantes para a escolha desse mercado? \*

1	2	3	4	5	
Nada importantes 🔘	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	Muitíssimo

12. E as infraestruturas e facilidades existentes nesse país, foram determinantes para a escolha desse mercado? \*

1 2 3 4 5

Nada importantes 🔘 🔘 🔘 🔘 Muitíssimo

13. Considera que a pressão competitiva do mercado nacional foi um fator importante na decisão de internacionalização? \*

1 2 3 4 5

Nada importante 🔘 🔘 🔘 🔘 Muitíssimo

<ul> <li>4. Como perceciona o RISCO de operar internacionalmente * <ol> <li>2 3 4 5</li> </ol> </li> <li>Iada arriscado I 2 3 4 5</li> <li>Iada arriscado I 2 3 4 5</li> <li>Como perceciona o CUSTO de operar internacionalmente * <ol> <li>2 3 4 5</li> </ol> </li> <li>Pouco custoso I I 2 3 4 5</li> <li>Como perceciona o RETORNO FINANCEIRO de operar internacionalmente * <ol> <li>2 3 4 5</li> </ol> </li> <li>Iada lucrativo I 2 3 4 5</li> <li>Iada lucrativo I 2 3 4 5</li> <li>Maior volume de vendas <ol> <li>Muito lucrativo</li> <li>Maior rendimento das operações/vendas da empresa</li> <li>Satisfação pessoal dos gestores</li> <li>Diversificação de clientes/mercados</li> <li>Outro: <ol> <li>2 3 4 5</li> </ol> </li> <li>8. Considera que a sua rede de contactos interna, fornecedores e colaboradores, são un onte importante de informação relativamente ao mercado externo?* <ol> <li>2 3 4 5</li> </ol> </li> <li>Iada importante I 2 3 4 5</li> <li>Iada importante I I 2 3 4 5</li> </ol> </li> <li>9. Considera a rede de contactos externa, como o mercado de capitais, uma fonte externa o a mercado de capitais, uma fonte</li> </ul>
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<ul> <li>5. Como perceciona o CUSTO de operar internacionalmente * <ol> <li>2 3 4 5</li> </ol> </li> <li>Couco custoso </li> <li>Muito custoso</li> <li>6. Como perceciona o RETORNO FINANCEIRO de operar internacionalmente * <ol> <li>2 3 4 5</li> </ol> </li> <li>Iada lucrativo </li> <li>Muito lucrativo</li> <li>7. Das seguintes, quais considera ser as maiores vantagens de se vender ao estrangeiro <ol> <li>Maior volume de vendas</li> <li>Maior rendimento das operações/vendas da empresa</li> <li>Satisfação pessoal dos gestores</li> <li>Diversificação de clientes/mercados</li> <li>Outro: <ol> <li>2 3 4 5</li> </ol> </li> <li>8. Considera que a sua rede de contactos interna, fornecedores e colaboradores, são un onte importante de informação relativamente ao mercado externo?* <ol> <li>2 3 4 5</li> </ol> </li> <li>8. Considera que a sua rede de contactos interna, fornecedores e colaboradores, são un onte importante de informação relativamente ao mercado externo?* <ol> <li>2 3 4 5</li> </ol> </li> <li>8. Considera a rede de contactos interna, fornecedores e colaboradores, são un onte importante de informação relativamente ao mercado externo?* <ol> <li>2 3 4 5</li> </ol> </li> <li>9. Considera a rede de contactos externa, como o mercado de capitais, uma fonte</li> </ol></li></ul>
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Pouco custoso Image: Considera a rede de contactos externa, como o mercado de capitais, uma fonte
6. Como perceciona o RETORNO FINANCEIRO de operar internacionalmente * 1 2 3 4 5 Iada lucrativo O O O Muito lucrativo 7. Das seguintes, quais considera ser as maiores vantagens de se vender ao estrangeiro Maior volume de vendas Maior rendimento das operações/vendas da empresa Satisfação pessoal dos gestores Diversificação de clientes/mercados Outro: 8. Considera que a sua rede de contactos interna, fornecedores e colaboradores, são un onte importante de informação relativamente ao mercado externo?* 1 2 3 4 5 Iada importante O O O O Muitíssimo 9. Considera a rede de contactos externa, como o mercado de capitais, uma fonte
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<ul> <li>7. Das seguintes, quais considera ser as maiores vantagens de se vender ao estrangeira</li> <li>Maior volume de vendas</li> <li>Maior rendimento das operações/vendas da empresa</li> <li>Satisfação pessoal dos gestores</li> <li>Diversificação de clientes/mercados</li> <li>Outro:</li> <li>8. Considera que a sua rede de contactos interna, fornecedores e colaboradores, são un onte importante de informação relativamente ao mercado externo?*</li> <li>1 2 3 4 5</li> <li>Iada importante o o o Muitíssimo</li> <li>9. Considera a rede de contactos externa, como o mercado de capitais, uma fonte</li> </ul>
<ul> <li>Maior volume de vendas</li> <li>Maior rendimento das operações/vendas da empresa</li> <li>Satisfação pessoal dos gestores</li> <li>Diversificação de clientes/mercados</li> <li>Outro:</li> <li>8. Considera que a sua rede de contactos interna, fornecedores e colaboradores, são un onte importante de informação relativamente ao mercado externo?*</li> <li>1 2 3 4 5</li> <li>Jada importante o o o Muitíssimo</li> <li>9. Considera a rede de contactos externa, como o mercado de capitais, uma fonte</li> </ul>
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9. Considera a rede de contactos externa, como o mercado de capitais, uma fonte
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lada importante 💿 💿 💿 💿 Muitíssimo 10. Costuma recorrer a organismos de apoio à exportação como p.ex Embaixadas, AICEP
1 2 3 4 5

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Nenhuma alteraçã	0 ©	) ()	) ()	0	$\bigcirc$	Adaptação total ao mercado	
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1	2	3	4	5			
Nada diferente 🔘	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	Tota	Imente diferente	
23. E, finalmente, o associados á exp						em considerar o custo de tra iís para país? *	nsporte e outros custos
Sim							
Não							

Muito obrigado pela sua colaboração!