

THE INFLUENCE OF DIVERSITY ON BOARDS ON PROFITABILITY: AN OVERVIEW ACROSS IBERIAN NON-FINANCIAL LISTED COMPANIES

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Abstract

In modern economies, the corporate governance principles have been understood as drivers that mitigate the risk derived from the existing gap between managerial practices and ownership structure. This research contributes to the literature review, analyzing the relationship between the board characteristics, audit firms, and a set of indicators taken as proxies of performance. Based on a dataset of 124 non-financial companies, a linear model was regressed. We found that some characteristics of board of directors significantly influence the companies' performance. These new insights can also provide new guidelines for policy makers towards the establishment of new common rules and principles that accurately grant the efficiency of corporate governance mechanisms and ensure the desired international comparability.

Keywords: Corporate Governance, Diversity on Boards, Profitability, Portugal, Spain, Iberian Countries

1. INTRODUCTION AND RESEARCH OBJECTIVE

The topic of corporate governance has been developed over the last decades in two different approaches: firstly, the way how firms are managed towards performance, efficiency, growth, structure, and relations with stakeholders; secondly, focusing on rules and regulations which influence the firm activity (Yacoob and Basiuni, 2014; Vintila and Gherghina, 2012; Dahya and McConnel, 2007; Coles et al., 2001). As a driver of corporate performance and profitability (Sachdeva, 2014), it relates to the way how the risk between ownership and management can be mitigated and diluted, the reason why agency theory assumptions have been used to highlight the corporate governance practices (Ahrens and Khalifa, 2013). Those practices can curb firm's failures due to fraudulent activities, collusion schemes and mismanagement (Yaacob and Basiuni, 2014) and act as a driver of sustainability (Latteman, 2014).

Empirical research appears to demonstrate that companies with inefficient corporate governance deliver inferior returns to shareholders (Von Nandelstadh and Rosenberg, 2003), and that they tend to deliver lower profits and pay lower dividends. Bhagat et al. (2013) advocate that boards can improve performance by increasing attention to risk and embedding issues of risk into processes throughout the organization (Yaacob and Basiuni, 2014). Bhagat et al. (2013) also advocate learning from peers sitting on higher impact boards by leveraging financial metrics, reviewing major projects, and using systematic processes to create competitive advantage. Corporate governance not only deals with providers of financing and assures their investment return (Shleifer and Vishny, 1997), it also creates a

system that directs and controls companies (Sheikh et al., 2013).

This research aims to identify whether diversity on boards and type of audit firms can be used as predictors of company's performance. It also aims to identify whether corporate governance indicators, such as board size, board composition, number of women in the boards, proportion of nonexecutive members, proportion of members participating in other internal and external committees, differ between Portugal and Spain.

2. LITERATURE REVIEW

2.1 Governance and diversity on boards

Diversity of attributes on boards includes a mix of backgrounds and genders to ensure that the board is not built up solely of like-minded individuals. These attributes are seen as key drivers for the effectiveness of boards, because they generate different perspectives among board members and incentivize "group thinking" (FRC, 2011). In addition, board performance improves with a better mix of skills and/or backgrounds, as a diversity of perspectives among individuals can be a relevant strength on boards. Regardless, in order for an organization to leverage the diversity of perspectives, those businesses should accept that no single structure fits all cases George (2013), a reason that alone may influence the contradictory results of the research that has been performed mainly among different cultures in different countries. Corporate governance is an analytical mechanism that is used to establish objectives, determine the resources needed to achieve them, and to monitor performance (OECD, 2004); it is an evolving area driven by the need

to restore investor confidence (Sheikh *et al.*, 2013). The monitoring of the board encompasses the monitoring of performance, which is not restricted to financial measures (Galbreath, 2012). The requirements also stipulate that companies, investors, and society in general will benefit from transparency because this will improve both competitiveness and job creation (Barnier, 2014; Yaacob and Basiuni, 2014; Mishra and Mohanty, 2013).

Long-term decision-making requires companies to adopt best practice by reporting financial and non-financial performance to stakeholders (Barnier, 2014; OECD, 2004). Areas that may fall within the important area of best practice include maintenance of an excellent reputation, lowering financing costs, corporate social responsibility, attracting and retaining talent. The adherence to principles of good governance is an important factor in investment decisions, applicable independent of size, ownership structure, or whether an unlisted firm (OECD, 2004), not least because these principles are aimed at protecting stakeholders (Mollah *et al.*, 2012) from opportunistic behaviour by management and/or controlling shareholders (von Nandelstadh and Rosenberg, 2003). The correlation between the characteristics of boards (e.g. composition, size, independence, and diversity) and the performance of companies continues to be an inconclusive topic within the financial literature, despite the attention of practitioners, academics, and regulators (Anderson and Reeb, 2004; Ferrero-Ferrero *et al.*, 2012; Dharmadasa *et al.*, 2014). Furthermore, authors such as Bhagat and Bolton (2008) argue that the lack of an appropriately weighty system may result in the non-robust results. However, considering this weakness, empirical research concludes that good governance has a positive impact on performance (Gompers *et al.*, 2003; Bebchuk and Cohen, 2009).

In relation to the size of boards, empirical research concludes that the size of the board relates positively to the return on assets, earnings per share, and market-to-book ratio, and that the effectiveness of the board is sensitive to different economic periods (Sheikh *et al.*, 2013). A different perspective could be to leverage the characteristics of board members in terms of their expertise in order to overcome this barrier. According to Pfeffer and Salanick (1978), the greater the need for effective external linkage, the larger the board should be. On this aspect, Sheikh *et al.* (2013) concluded that while larger size boards reveal problems relating to coordination, and that the effectiveness of the board can deteriorate as a result, the larger size board might facilitate supervision due to the availability of greater human capital. Other research has concluded that larger boards are associated with negative performance as they reflect weaker control (Mashayekhi and Bazaz, 2008), and are less effective (Jensen, 1993). Van den Berghe and Levrau (2004) suggest that a larger board should increase the pool of expertise, as it is likely it will have more knowledge and skills than a smaller one.

Another important driver to board diversity is the percentage of women members on the board, because this relates to barriers and/or lack of awareness to the issue. Diversity and inclusiveness represent a cultural transformation, reflecting the measurable long-term objectives for the

accountability of management that cascades throughout the organization. Devillard *et al.* (2014) concluded that measures to increase diversity in the gender mix at senior executive level was not successful and that a key reason for this was the corporate culture, doubts among male members relating to the value of such measures, as well as a divergence of views between executives of different genders. All of these authors recommend that the CEO of the company should consider these barriers in order to achieve diversity objectives. Another barrier that diversity of genre could face, relates to quotas of female members on Boards. In Norway, Ahern and Dittmar (2012) point to that fact that the usual criteria, where board members are selected based on their skills in order to raise shareholder value, may be restricted if the pool of females, displaying the skills and levels of experience of their potential peers on boards, is small.

Governance also relates to the percentage of members on other boards among group companies. The full disclosure of the experience and background (Devillard *et al.*, 2014; Dharmadasa, *et al.*, 2014) for board nomination is central to improving the suitability of candidates (OECD, 2004). The monitoring role is linked to the personal values of board members—executive and non-executive—as well as stakeholders and their attitudes to society (Galbreath, 2012), a criterion that should influence the choice and suitability (the fit) for the job among candidates.

Regards the percentage of members on boards of external companies, both directors and boards can benefit from holding different positions on a number of boards (George, 2013). Governance mechanisms, board size, with robust links to the external environment, facilitates access to various resources—resource dependence theory—affecting performance positively (Sheikh *et al.*, 2013). Another aspect to consider relates to the fact that social capital may emerge from *director interlocks*. As NEDs generally serve on multiple boards (Kor and Sundaramurthy, 2009), this is an argument that supports their social capital in becoming a relevant source of innovation and motivation for change (Galbreath, 2012; Scott, 1990).

Relating the proportion of independent board members, Dharmadasa *et al.* (2014) advocate that the performance of an enterprise is strongly linked to its characteristics, namely its independence; while Bhagat *et al.* (2013) conclude that boards became more effective after the financial crisis of 2008, due to better collaboration between executives and more active or skilled independent directors. On the other hand, the quality of a Non-Executive Director (NED) requires that the individual has neither had nor does have a previous relationship with the company (e.g. an employment contract) (Galbreath, 2012). This characteristic may include someone who has had a close relationship with the company at some time in the past, which must not affect the independent judgment of the NED (Kor and Sundaramurthy, 2009; Fama and Jensen, 1983). Independence and experience are usually the result of different managerial backgrounds and industry exposure among NEDs. As Fama and Jensen (1983) advocate, NEDs of this calibre tend to display *greater motivation* to monitor executives, and generally offer a higher level of criticism of that which is being done

as well as an informed vision for that which could be done.

2.2 Audit Firms as an external mechanism of governance

Auditing serves as a bonding and monitoring mechanism towards the reduction of agency costs derived from information asymmetry among ownership and management, and other third parties (Myers et al., 2014; Lin and Lin, 2014; Lee and Lee, 2013; Chen et al., 2013; Watts and Zimmerman, 1986; Jensen and Meckling, 1976). As an external mechanism of corporate governance, the audit firms can improve the value relevance of performance indicators, namely earnings and equity (Lee and Lee, 2013). De Angelo (1981) and Brown et al. (1999) argue that audit quality is positively associated to the size of the audit firm. However, the audit quality is also related to audit firm’s reputation, brand effects, and prior services outcomes (Healy and Lys, 1986). Thus, a Big 4 audit firm can serve a driver of value relevance by using the scale effects. The results achieved by Lee and Lee (2013) suggest the effectiveness of quality audits provided by Big 4 audit firms. Furthermore, those audits can better explain the changes in stock return, being more useful in predicting future value of the firm. Chen et al. (2013) corroborate these findings, evidencing a positive association between audit firm size and financial performance in national, regional, and local audit firms.

Size of the company (measured as total assets) together with financial leverage (proportion of debt relative to equity used to finance the business) can serve as control variables and are widely supported by the literature. The same references support the

predicted economic signals shown in Table 1, where Ordinary Least Squares (OLS) and multiple regressions (using a 5% Stepwise approach) have been employed to test the relationships between the dependent and independent variables.

3. METHODOLOGY

3.1 Data source

This research is based on 124 non-financial listed companies, all of them integrating the Iberian stock exchange (Portugal: 37 companies; Spain: 87 companies). These companies were aggregated in nine activity sectors: 1. *Oil and Gas*; 2. *Basic materials*; 3. *Industrials*; 4. *Consumer goods*; 5. *Health care*; 6. *Consumer services*; 7. *Telecommunications*; 8. *Utilities*; and 9. *Technology*. Data relates to the economic year 2013 for the independent variables (performance indicators) and to 2014 for all the dependent variables. Data was extracted from the companies’ annual management reports, including corporate governance reports.

3.2 Variables, regression model and hypotheses

Based on the assumptions that diversity on boards and audit firms can influence companies’ performance indicators (Lattemann, 2014; Mishra and Mohanty, 2014; Myears et al., 2014; Lee and Lee, 2013; Chen et al. 2013; Galbreath, 2012; Bebcuk and Cohen, 2009; Kor and Sundaramurthy, 2009; Gompers et al., 2003; Scott, 1990), table 1 evidences the dependent and control variables, the corresponding predictors and expected signals.

Table 1. Variables description and framework

VARIABLE TYPOLOGY	VAR.	DESCRIPTION	PREDICTED ECONOMIC SIGNAL
<i>DEPENDENT</i>	TUR _{it}	Logarithm of company’s turnover in Y _{it}	
	ROE _{it}	Ratio of net income to shareholders equity	
	ROA _{it}	Ratio of net income to total assets	
	ROS _{it}	Ratio of earnings before interests and taxes to total sales and services	
	EPS _{it}	Ratio of profit before taxes to outstanding common shares	
<i>INDEPENDENT</i>	BDSIZE _{it}	Size of company’s board of directors	+/-
	BDWOM _{it}	Proportion of women in the company’s board of directors	?
	BDINT _{it}	Proportion of members who act as executive or non-executive members in other group companies’ boards	?
	BDNEM _{it}	Proportion of independent board members	?
	BDEXT _{it}	Proportion of members in external companies’ boards	?
	AUD _{it}	Auditing company (1 if audited by a Big4 company, 0 otherwise)	+
	COUNT _{it}	Portuguese or Spanish Stock Exchange Market	?
<i>CONTROL</i>	SEC _{it}	Activity Sector	?
	LEV _{it}	Ratio of total book debts to total assets	-
	SIZE _{it}	Logarithm of total assets	+

In order to identify which variables (X_i; i=1,...k) best contribute to explain the variance of

dependent variable, we have regressed the model as follows:

$$\hat{Y}_{it} = \beta_0 + \beta_1 BDSIZE_{i,t} + \beta_2 BDWOM_{i,t} + \beta_3 BDINT_{i,t} + \beta_4 BDNEM_{i,t} + \beta_5 BDEXT_{i,t} + \beta_6 AUD_{i,t} + \beta_7 LEV_{i,t} + \beta_8 SIZE_{i,t} + \beta_9 COUNT_{i,t} + \beta_{10} SEC_{i,t} + \varepsilon_{i,t}$$

(i = 1, ..., n ; t = 1, ..., m)

All variables were simultaneously introduced in the model in order to identify which ones can predict the companies' performance (rejection of $H_0: \beta_1 = \beta_2 = \dots = \beta_{10} = 0$; $p < \alpha$). Thus, based on the literature theoretical background, we formulate the following two hypotheses:

Hypothesis 1: Performance indicators are influenced by the internal mechanism of corporate governance - diversity on boards.

Hypothesis 2: Performance indicators are influenced by the external mechanism of corporate governance - type of Audit firm.

Hypothesis 3: The distribution of boards' characteristics and type of audit firm are the same for Portugal and Spain.

4. RESULTS AND DISCUSSION

4.1 Descriptive measures and association measures

Companies were aggregated in nine activity sectors. The main representative is the sector "Industrials" (27.4%) which includes construction and materials, aerospace and defense, electronic, electrical equipment, and transportation. "Consumer goods" is the second most representative sector (21.0 %) and includes automobile and parts, beverages, food producers, household goods, home construction, leisure goods, tobacco. Relating auditing, 107 (96.3%) companies were audited by a Big 4 audit firm and 17 (13.7%) by a non-Big 4 audit firm. The main descriptive measures for other variables are evidenced in table 2.

Table 2. Descriptive measures

Variable	N	Minimum	Maximum	Mean	Std. Deviation	Skewness	Kurtosis
TUR _{it}	124	16.054	25.156	20.408	2.072	0.162	-0.389
ROE _{it}	124	-387.700	514.800	-11.685	87.512	-0.238	15.701
ROA _{it}	124	-117.700	141.300	-0.486	20.132	0.688	29.399
ROS _{it}	124	-279.800	83.400	3.957	35.082	-5.154	38.619
EPS _{it}	124	-34.550	78.050	0.478	8.466	5.816	60.785
BDSIZE _{it}	124	3	30	10.22	4.151	1.212	3.256
BDWOM _{it}	124	0	40	9.69	10.84	0.958	0.041
BDINT _{it}	124	0	100	37.79	33.00	0.832	-0.526
BDNEM _{it}	124	0	77	34.48	19.80	-0.009	-0.651
BDEXT _{it}	124	0	100	37.00	34.60	0.746	-0.762
LEV _{it}	124	0.730	342.589	70.632	39.188	0.199	-0.427
SIZE _{it}	124	16.469	25.590	20.998	2.048	3.664	22.222

Table 3. Persons correlation coefficients

VAR.	TUR	ROE	ROA	ROS	EPS	BDSIZE	BSWOM	BDINT	BDNEM	BDEXT	AUD	LEV	SIZE	COUNT	SEC
TUR	1														
ROE	0.134	1													
	0.138		1												
ROA	0.075	0.826***													
	0.407	0.000	1												
ROS	0.117	0.588***	0.622***												
	0.197	0.000	0.000	1											
EPS	0.069	0.110	0.095	0.084											
	0.448	0.223	0.295	0.352	1										
BDSIZE	0.515***	0.101	0.052	0.196**	-0.069										
	0.000	0.264	0.566	0.029	0.449	1									
BDWOM	0.052	0.085	0.082	0.135	0.061	-0.048									
	0.569	0.345	0.368	0.136	0.503	0.595	1								
BDINT	-0.129	0.067	0.141	-0.015	-0.057	-0.156	-0.128								
	0.154	0.459	0.117	0.866	0.531	0.084*	0.157	1							
BDNEM	0.209**	-0.007	-0.075	0.085	-0.070	0.294***	0.140	-0.257***							
	0.020	0.941	0.410	0.351	0.442	0.001	0.122	0.004	1						
BDEXT	0.010	0.161	0.198**	0.062	-0.096	-0.013	-0.101	0.593***	-0.106						
	0.912	0.074	0.028	0.497	0.290	0.885	0.263	0.000	0.240	1					
AUD	0.226**	0.125	0.097	0.149	0.101	0.180**	0.218**	-0.075	0.157	-0.075					
	0.012	0.166	0.285	0.099*	0.267	0.046	0.015	0.408	0.082*	0.407	1				
LEV	0.012	-0.176	-0.228**	-0.225**	-0.191**	-0.082	0.064	-0.088	-0.074	-0.079	-0.315***				
	0.891	0.051*	0.011	0.012	0.034	0.367	0.482	0.330	0.415	0.383	0.000	1			
SIZE	0.881***	0.046	-0.010	0.119	0.034	0.581***	0.070	-0.121	0.291***	0.215**	0.215**	0.002			
	0.000	0.609	0.912	0.188	0.710	0.000	0.441	0.182	0.001	0.016	0.016	0.985	1		
COUNT	0.146	-0.141	-0.181**	-0.075	0.035	0.022	0.141	-0.725***	0.172	-0.749***	0.201**	0.095	0.123		
	0.105	0.118	0.044	0.410	0.697	0.812	0.120	0.000	0.057*	0.000	0.025	0.296	0.175	1	
SEC	-0.129	-0.035	-0.003	0.059	-0.082	0.056	-0.053	0.144	0.012	0.220**	-0.075	0.036	-0.145	-0.213**	
	0.154	0.700	0.973	0.518	0.363	0.534	0.557	0.110	0.896	0.014	0.409	0.695	0.108	0.018	1

*** $p < 0.01$, ** $p < 0.05$; * $p < 0.1$

Bivariate correlations analysis evidences several statistically significant associations between diversity on boards characteristics and the performance indicators. BDSIZE is associated with TUR ($r=0.515;p=0.000$) and ROS ($r=0.196;p=0.029$) while TUR is also associated with AUD ($r=0.226;p=0.012$). Thus, these results confirm the evidences achieved by Von den Berghe and Levrau (2004) about the influence of the size of boards of directors on performance. Thus, a larger board increases the pool of expertise, as it is likely it will have more knowledge and skills than a smaller one. However these results contradict the achievements of Mashayekhi and Bazaz, (2008) and Jensen (1993). Larger boards are associated with negative performance as they reflect weaker control and are less effective. Corroborating the evidences stated on Chen et al. (2013), the size of audit firm also

influences the companies' key performance indicators.

4.2 The regression model and the comparison between countries

In this section we present the effect of explanatory variables on performance and the differences between the countries under analysis. Only the model evidencing the relationship between independent variables and TUR could be validated. When we tested the relationship between performance (measured by ROE, ROA, ROS, and EPS), and internal and external corporate governance drivers introduced in the regression model, we could not validate the models, considering the significance achieved for F- test.

Table 4. The effect of explanatory variables on TUR

Variable	Coefficient	SE	t-statistic	Sig.
C	0.510	1.237	0.413	0.681
BDSIZE _{it}	0.011	0.028	0.398	0.691
BDWOM _{it}	-0.003	0.009	-0.330	0.742
BDINT _{it}	-0.002	0.004	-0.365	0.716
BDNEM _{it}	-0.007	0.005	-1.383	0.169
BDEXT _{it}	0.010	0.004	2.486	0.014**
AUD _{it}	0.210	0.298	0.705	0.482
LEV _{it}	-0.106	0.049	-2.140	0.035**
SIZE _{it}	0.875	0.057	15.465	0.000***
COUNT _{it}	0.673	0.362	1.858	0.066*
SEC _{it}	-0.003	0.043	-0.079	0.937
R ²	0.793	Mean dependent variable		20.408
Adjusted R ²	0.775	F-statistic		43.375
SE of regression	0.9828	Prob. (F-statistic)		0.000

*** $p<0.01$; ** $p<0.05$; * $p<0.1$

Based on our theoretical regression model, it can only be used to predict companies' turnover (Adj. $R^2=0.775$; $F=43.3757;p=0.000$). Dependent variable is significantly influenced by then proportion of board members participating in other external group committees ($t=2.486;p=0.014$), from firm size ($t=15.465;p=0.000$), from leverage ($t=-2.140;p=0.035$), and from the country ($t=1.858;p=0.066$). The expected signals for these variables confirm the literature (Jensen, 1986; Sheikh et al., 2013). Thus, they confirm the assumptions of Jensen (1986) that debts reduces the agency costs of free cash flow and larger firms have greater variety of capabilities, leveraging the economies of scale which positively influence firm turnover (Ehikioya, 2009). Relating the other dependent variables, diversity on boards and audit firm cannot act as significant predictors of performance. Thus, they cannot be used to predict ROE (Adj. $R^2=0.008$; $F=1.101;p=0.368$), ROA (Adj. $R^2=0.037$; $F=1.467;p=0.161$), ROS (Adj. $R^2=0.045$; $F=1.579;p=0.122$), and EPS (Adj. $R^2=0.009$; $F=1.116;p=0.356$). These results do not corroborate the evidence achieved by Shikh et al. (2013) for Pakistani firms. However, they are partially consistent with the results achieved by Vintila and Gherghina (2012). When using the indicators ROA and ROE, these authors could not validate the models, considering the significance of F-test. Thus, our hypothesis 1 is not confirmed, except for the impact of BDEXT on TUR. Hypothesis 2 is not confirmed either, which means that the type of audit firm (Big 4 or non-Big 4) does not influence the company's performance. This result is not aligned with Lee and Lee (2013) findings that results audited by Big 4 audit

firms are generally more relevant than those audited by non-Big 4 audit firms.

In respect to model validity, *Variance Inflation Factor* (VIF) assesses the degree of multicollinearity in the model. Thus, we found that none of our independent variables has a VIF value close to 10 (it varies between 1.116 and 3.526), concluding that our analysis does not observe a multicollinearity severe problem. Towards the analysis of residuals independence, we used the *Durbin-Watson* (DW). Based on our DW statistics, we notice that null hypothesis cannot be rejected ($DW=2.031$). Thus, residuals can describe a normal distribution, confirming its independence. All other model assumptions, such as heteroscedasticity were also confirmed towards the robustness model validly.

Null hypothesis states that the distribution between variables is the same across both countries (Portugal and Spain). This hypothesis cannot be rejected for TUR, ROE, ROS, EPS, BDSIZE, BD WOM, LEV, and SIZE, which means that the performance level and those boards' characteristics do not differ across countries. We consider it as an expected result because firms are integrated in a globalized market, with diversified corporate governance structures, and affected by macroeconomic externalities, such as sovereign debts effects. However, the null hypothesis is rejected for ROS (internal efficiency measure), BDINT, BDNEM, BDEXT, and Aud. These results can be supported by cultural issues (e.g. impact of Big 4 audit firms), and differences in the requirements stated in the national corporate governance codes (e.g. limitations in the participation in other boards and committees).

Table 5. Comparison between Portugal and Spain

Variable	Equality of Variances (F)	Sig.	Equality of Means (t)	df	Sig.	Hypothesis 3 Test
TUR _{it}	1,944	0,166	-1.633	122	0,105	Not Rejected
ROE _{it}	0,620	0,432	1,572	122	0,118	Not Rejected
ROA _{it}	0,305	0,582	2,037	122	0,044	Rejected
ROS _{it}	0,962	0,355	0,827	122	0,410	Not Rejected
EPS _{it}	2,880	0,092	-0,390	122	0,697	Not Rejected
BDSIZE _{it}	7,833	0,006	-0,238	122	0,812	Not Rejected
BDWOM _{it}	0,706	0,402	-1,568	122	0,120	Not Rejected
BDINT _{it}	35,284	0,000	11,639	122	0,000	Rejected
BDNEM _{it}	10,966	0,001	-1,923	122	0,057	Rejected
BDEXT _{it}	13,464	0,000	12,477	122	0,000	Rejected
AUD _{it}	19,317	0,000	-2,269	122	0,025	Rejected
LEV _{it}	0,735	0,393	-1,049	122	0,175	Not Rejected
SIZE _{it}	1,603	0,208	-1,363	122	0,296	Not Rejected

*** $p < 0.01$; ** $p < 0.05$; * $p < 0.1$

5. CONCLUSIONS AND IMPLICATIONS

5.1 Conclusions

Over the last decade, nations have introduced new rules and procedures towards the risk mitigation derived from the information asymmetry. The codes of corporate governance introduced the need to implement, comply, and report to stakeholders, a wide set of internal and external mechanisms. Two important mechanisms of corporate governance are diversity on boards and audit firms. From an economic point of view, these mechanisms can serve as drivers of performance, embodying expertise, technical and human skills, knowledge, driving companies into sustainable levels of profitability. However, our approach, applicable for Iberian listed companies listed, only supports the relationship between diversity on boards, audit firms, and performance measured by turnover. We could not support a relationship between performance (measured by ROE, ROA, ROS, and EPS) and independent variables, considering the significance level achieved in F- tests. The second remark relates to the existing differences in the distribution of some variables when we compare both countries. When considering the proportion of independent members in the board, the proportion of members participating in other internal and external boards, and the audit firm (Big 4 or non-Big 4), the null hypothesis is rejected. These findings can contribute for the literature with practical insights about the Iberian listed companies. Regarding the limitations, this research was conducted only for one year and for non-financial listed companies in two countries. To extend the range of time and the number of listed companies and countries under analysis, can corroborate or refute the evidences achieved in the current research. As future research directions, we could research the relationship between corporate governance and firm performance, measured through other metrics (e.g. Tobin's Q, Market-to-Book ratio) and using other approaches as simultaneous equations model or generalized method of moments.

5.2 Practical implications

Performance and profitability, as an economic outcome of management, are key signals towards sustainability over the years to come. Thus, the dynamic changes in the corporate governance models

are used to increase growth, profitability, and to mitigate financial and economic risk. The current research provides both an understanding of how internal governance mechanisms tested in aggregate positively affect the performance of firms and offer some explanation as to the relationship between internal governance mechanisms and the performance of firms. It adds value to the current literature by exploring the effects of governance mechanisms on the performance of Iberian firms.

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