MONITORING, CORPORATE PERFORMANCE AND INSTITUTIONAL DIRECTORS

Abstract

Our main objective is to study the effect of institutional directors on firm performance, distinguishing directors according to whether they maintain business relationships (pressure-sensitive) or not (pressure-resistant). Our results show that in weak regulatory and low investor protection environments, institutional directors have a negative impact on corporate performance. Our evidence does not show that these two kinds of institutional directors behave differently. However, when we study the effect of board composition before and during the current financial crisis, the findings show that directors with no business relationships (pressure-resistant) contributed towards reducing corporate performance during the crisis.

Key words: Firm value, institutional directors, pressure-resistant directors, pressure-sensitive directors, board of directors

JEL: L25, M12, M14

INTRODUCTION

Boards of directors can play a significant role in controlling agency problems. From an agency perspective, the ability of a board to monitor its managers depends on the directors' degree of independence (Beasley, 1996; Dechow et al., 1996). However, in EU countries, independent directors do not appear to be particularly efficient, and directors representing institutional investors sometimes play a more important role as board members (Pucheta-Martínez and García-Meca, 2014). In this context, in contrast to the Anglo-Saxon environment, the control exercised by institutional investors who are also board members enables them to take part in the internal decision-making process of a firm (e.g., Hoshi et al., 1993; Pucheta-Martínez and García-Meca, 2014; Weinstein and Yafeh, 1998).

The presence of board members representing institutional investors is increasing throughout all OECD countries, and institutions are becoming more dominant in corporate governance, even in civil-law countries (Jara-Bertín et al., 2012). Prior research has not yet examined how directors representing institutional shareholders affect corporate performance in a low investor protection environment with a high presence of this type of board members, such as Spain. Therefore, our paper studies, firstly, how institutional directors affect company performance and, secondly, the influence on firm value of directors appointed by different institutional investors; specifically, and following López-Iturriaga et al. (2014), we distinguish between directors representing banks, savings banks and insurance companies and directors representing investment, mutual and pension funds. In accordance with previous literature (Almazán et al., 2005; Chen et al., 2007; Cornett et al., 2007), we differentiate between institutional investors who maintain business ties with the companies, defined as pressure-sensitive, and those who do not, defined as pressure-resistant.

Therefore, this paper has two main purposes. Firstly, we study the relationship between institutional directors and firm performance. Secondly, we distinguish between those directors that represent investors who maintain commercial links with the company where they serve as board members and those who do not, and we explore how they affect firm value. We focus on Spain due to its high number of this type of director on its boards, with institutional investors simultaneously being both core shareholders and highly represented directors.

This paper makes several different contributions. First, we show the effects of directors representing institutional investors on value creation in a way that is not possible to capture in those countries where institutional investors are only shareholders. Due to its institutional investors being simultaneously core shareholders and highly represented directors, Spain affords an exceptional occasion to explore how institutional directors are associated with corporate performance creation. Secondly, our estimates note that the negative effect of resistant institutional investors on firm performance was higher during the crisis, suggesting that the short horizon of resistant institutional investors led managers to adopt adverse short-term strategies affecting performance, especially during turbulent market periods.

These findings have implications for numerous parties, such as institutional investors, regulators, potential new board members and other corporate governance reform proponents, who frequently examine board characteristics to assess the effectiveness of boards in value creation policies by providing important policy implications for the design of corporate boards.

The findings show that institutional directors are negatively associated with firm value. Furthermore, our results also find that there are no differences between directors representing banks, saving banks and insurance companies, and directors representing investment, mutual and pension funds. The results also suggest that an emphasis on board independence alone may not be enough to enhance value creation since it does not impact on

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firm value. Instead, focusing on foreign directors may be a more fruitful way to increase performance, especially in countries with high ownership concentration. Our findings support this assertion. In addition, when we analyse the effect of institutional and foreign directors before and during the crisis, the findings show that only foreign directors affect firm value positively during both periods, while directors with no business relationships influence corporate performance negatively during the crisis.

In the next section, we describe the institutional context where the research was conducted. In the third section, we provide the hypotheses development. The fourth section offers the sample, variables and methodology. The fifth section analyses the results and, finally, the sixth section draws the most important conclusions.

INSTITUTIONAL SETTING

Spanish companies are characterized by a one-tier board system, high ownership concentration, low independence, and a high proportion of directors representing institutional investors on boards (Heidrick and Struggles, 2011).

In Spain, important institutions such as the state, large banks and recently privatized companies have become controlling shareholders and play important roles when solving important corporate governance issues (Crespí et al., 2004). These controlling shareholders usually sit on boards in order to represent the interests of institutional investors, playing an important role as controlling shareholders, members of their boards and creditors (e.g. banks). However, in the Anglo-Saxon context, capital markets play an important role as a funding source of companies, and directors representing institutional investors are not so important. Therefore, most of the institutional investors on Spanish boards belong to banks and also to investment funds. In addition, previous research conducted in Spain (García-Meca and Sánchez-Ballesta, 2009; Lorca et al., 2011; Pucheta-Martínez and García-Meca, 2014) reports

that the effective monitoring of management is exercised by institutional board membership and not by independent directors, finding inconclusive results for the supervisory role of independent directors in comparison to institutional investors.

In order to increase the transparency of the stock markets and to protect the rights of shareholders, particularly minority shareholders, Spain carried out legal and institutional changes. Several Corporate Governance Codes were set in order to recommend compliance with corporate governance regulations. For example, the Olivencia Report (1998) established firm value for shareholders as the principal priority. In 2003, the Law on Transparency of Listed Firms (LTLF) Report and the Aldama Report (2003) were published. The Aldama Report, which replaced the Olivencia Report (1998), defined that all board members had to pursue the firm's sustainability in the long run. Finally, in 2006, the Unified Code of Corporate Governance (CUBG, 2006) Report, or Conthe Code, was published, which unified the Olivencia and Aldama Reports. The purpose of the CUBG (2006) was to improve business management and return transparency to the Spanish system. Three kinds of directors were distinguished by the CUGB (2006): executive, independent and institutional. While executive directors are insiders and are directly involved in the management of the firm, both independent and institutional directors are considered as outsiders with different agendas and incentives for controlling managers. The CUBG (2006) recommended that Spanish boards be made up mainly of outsiders. In other words, the presence of insiders had to be kept to the minimum possible level in order to address information and communications needs. The proportion of independent directors recommended was at least a third of the total number of board directors, since they represented the rights of the minority shareholders.

HYPOTHESES DEVELOPMENT

The board of directors plays an important role in overseeing and monitoring the company, and its composition is crucial for reducing agency problems and aligning the motivations between principal and agent.

Previous literature analysing how institutional directors affect corporate value is heterogeneous. Some papers such as Kochhar and David (1996), Li and Shackell (2001) and Song et al. (2016), note that these directors are mainly concerned about maximizing the profits of their reference shareholders, noting a positive role of these directors. In this regard, some other papers suggest that institutional directors help managers to implement their strategies and facilitate coordination among stakeholders (Cuevas-Rodríguez et al., 2012; Pugliese et al., 2009).

Nevertheless, other authors (Varma, 2001) argue that institutional directors are passive and claim that their monitoring role is ineffectivedue to conflicts of interest with the company (Black, 1992; Kochhar and David, 1996), their relatively short-sighted goals (institutional investors focus on short-term corporate performance) (Bushee, 1998; Coffee, 1991), the freerider problem (Admati et al, 1994), or because they simply do not have the necessary skills (Taylor, 1990). Consistent with these views, Pound (1988) posits that institutional investors may align themselves with incumbent managers due to strategic alliances or previously existing relationships and that this leads to a decline in corporate performance. Hence, based on the above heterogeneous arguments, we posit that institutional directors may influence corporate performance either negative or positively. Thus, we pose the following unsigned hypothesis:

Hypothesis 1: Firm performance is affected by institutional directors

According to differences in preferences and incentives to control corporate decisions, we can find different behaviours in directors representing institutional investors. For instance, some institutional investors prefer short-term trading profits, whereas others prefer to monitor companies and exert influence on managers (Elyasiani and Jia, 2010). Wang (2014) supports the view that institutional directors are not a homogeneous group, categorising them according to three aspects: investment strategy, investment duration and the block-holding level. The author finds that these three factors, individually and collectively, drive the heterogeneity of institutional investors in mitigating accruals management and are also their incentives when monitoring managers with regard to accruals management. Koh (2007) also classifies institutional investors into two categories, according to their investment horizon long-term or transient institutional investors - in order to analyse their impact on the earnings management strategies of firms. His research demonstrates that long-term institutional investors alleviate aggressive earnings management, while transient institutional directors do not. Accordingly, institutional shareholders have different attitudes towards CEO compensation, Corporate Social Responsibility, profitability, earnings management, R&D investment decisions and spending, anti-takeover amendments and remuneration policy, among others (López-Iturriaga et al., 2014; Ullah and Jamali, 2010). According to their business objectives, we can distinguish between pressure-sensitive and pressure-resistant institutional directors (Dong and Ozkan, 2008; Kochhar and David, 1996; Pound, 1988).

Mutual and investment funds, pension funds and venture capital firms are considered in the literature as pressure-resistant institutional investors. They are freer than other shareholders due to their only maintaining an investment relationship, and not a business relationship, with the companies in which they invest (Wahba and Elsayed, 2014). In this vein, authors such as Sahu et al. (2014) and Wahba and Elsayed (2014) reported that firms with a higher corporate value have more pressure-resistant than pressure-sensitive directors serving ontheir boards. However, pressure-resistant directors may align with managers (Van Nuys, 1993) and support their decisions, such as to decrease firm performance, because these directors are representing investors who might have business ties with the firm in the future (for instance, if a firm becomes interested in choosing a mutual or pension fund provider for their employees). This thesis is supported by Woidthe (2002), who found a negative relationship between public pension funds and firm value. Thus, the above views suggest that pressure-resistant institutional directors may affect corporate performance either positively or negatively.

On the other hand, pressure-sensitive institutional directors have higher monitoring costs due to their interests in protecting their relationships with the firm. Therefore, when banks are creditors and shareholders in companies, controlling and strategic coalitions may arise, creating groups in order to extract private benefits. They may also go along with management decisions in order to avoid jeopardising their business relationships with the firm, and vote in favour of management recommendations (Brickley et al., 1988), creating expropriating alliances with controlling shareholders (Pinto, 2006). Some prior research finds a negative association between sensitive institutional board members and firm performance. For instance, Bhattacharya and Graham (2007) and Sahu et al. (2014), noted that pressure-sensitive institutional investors on boards in Finland and India are negatively associated with firm performance. Similar conclusions were found by Khanna and Palepu (2000), Mohanty (2002), Sarkar and Sarkar (2000) and Wahba and Elsayed (2014), who demonstrate a negative association between bank shareholding and corporate performance.

In accordance with the above arguments, we propose the following two hypotheses:

Hypothesis 2a: Firm performance is positively or negatively affected by pressureresistant institutional directors *Hypothesis 2b: Firm performance is negatively affected by pressure-sensitive institutional directors*

SAMPLE, VARIABLES AND METHODOLOGY

Sample

Our sample is composed of 144 non-financial companies listed on the Spanish Stock Exchange from 2004 to 2010. Financial entities have been excluded from the sample because they comply with specific accounting rules and because the role of their boards is limited, given the strict control that financial regulatory bodies exert over them. The SABI database was used to collect company market value and financial data, while the corporate governance report disclosed annually by listed companies was used to gather corporate governance data.

An unbalanced panel data set of 600 firm-year observations was built. According to Arellano (2003), the findings provided by unbalanced panel data sets can be as accurate as those provided by balanced panel data sets.

Variables

We measure performance by using Tobin's Q ratio (Vafaei et al., 2015). Computations of Tobin's Q ratio seen in the literature today often use Chung and Pruitt's (1994) approximation, which equals [market value of firm's common stock + liquidating value of preferred stock + book value of debt] divided by the total assets (Jiang et al., 2015). According to Chung and Pruitt (1994), this way of measuring Tobin's Q ratio can be considered an accurate indicator in line with the correct measurement of Tobin's Q ratio proposed by Lindenberg and Stephen (1981) from a theoretical perspective. Prior research focused on corporate governance effectiveness, and particularly board effectiveness, was

based on these indicators as a proxy for corporate value (e.g. Carter et al., 2010; Hart et al., 2015; Jackling and Johl, 2009).

Previous research analysing the relationship between corporate governance and firm performance was based on accounting measures (Return on Equity, Return on Assets and Return on Sales) and market measures (Tobin's Q ratio), with Tobin's Q ratio being the most frequently used. Financial accounting measures have often been criticised because: (1) they are subject to manipulation; (2) assets might be undervalued; or (3) alterations might be created (Mackey and Barney, 2013; Sánchez-Ballesta and García-Meca, 2007).

Contrary to accounting indicators, Tobin's Q ratio, a market indicator of company value, is based on the whole value that the market has assigned to the company, being mainly free from associations with asset assessments, present activities or even the company's past profitability. This assessment underlines what future earnings the company expects and, therefore, it can be considered as a valuable measure for representing present strategies and plans. Under the strong market assumption, any positive impacts of boards would be readily apparent to market participants and so reflected in the market capitalization of the firm (Fama, 1998). In our sensitive analysis, we will also use the market to book ratio, already used as a measure of performance by Adjaoud et al (2007) and de Andrés and Vallelado (2008).

We also employ several independent variables. The first independent variable used is denoted by INST and shows how many institutional directors, who represent institutional investors, sit on boards. In line with López-Iturriaga et al. (2014), we also consider the presence of pressure-sensitive directors (i.e. financial entities and insurance firms) and pressure-resistant directors on boards (i.e. mutual and investment funds), denoted by SENSIT and RESIST respectively. Board independence is also employed, showing the proportion of independent directors on boards and denoted by INDEP. Based on prior research, we have taken into account various control variables that might affect corporate performance. The proportion of foreign directors (FOREIGN) on boards is controlled. This variable has been calculated as the ratio between the total number of foreign directors on boards and the total number of directors on boards (Oxelheim and Randoy, 2003; Choi et al., 2007). Firm size has been labelled as SIZE and has been measured as the log of total firm's assets (Bachoo et al., 2013; Song, 2014). The leverage of the firm has also been controlled (LEV), and is measured as the quotient of debt and total assets (Erkens et al., 2012). We also control for ownership concentration (OWNER), CEO duality as a dummy variable, denoted by DUALITY (Barroso-Castro et al., 2015), and the age of the firm (AGE). A summary of the variables used and their calculations are provided in Table 1.

--Insert table 1 about here--

The following models will be estimated in order to test our hypotheses:

 $QTobin_{it} = \alpha + \beta_1 \cdot Inst_{it} + \beta_2 \cdot Indep_{it} + \beta_3 \cdot Foreign_{it} + \beta_4 \cdot Size_{it} + \beta_5 \cdot Age_{it} + \beta_6 \cdot Duality_{it} + \beta_7 \cdot Lev_{it} + \beta_8 \cdot Owner_{it} + \mu_{it} + \varepsilon_{it}$ (1)

 $QTobin_{it} = \alpha + \beta_1 \cdot Sensit_{it} + \beta_2 \cdot Indep_{it} + \beta_3 \cdot Foreign_{it} + \beta_4 \cdot Size_{it} + \beta_5 \cdot Age_{it} + \beta_6 \cdot Duality_{it} + \beta_7 \cdot Lev_{it} + \beta_8 \cdot Owner_{it} + \mu_{it} + \varepsilon_{it} \quad (2)$

 $QTobin_{it} = \alpha + \beta_1 \cdot Resist_{it} + \beta_2 \cdot Indep_{it} + \beta_3 \cdot Foreign_{it} + \beta_4 \cdot Size_{it} + \beta_5 \cdot Age_{it} + \beta_6 \cdot Duality_{it} + \beta_7 \cdot Lev_{it} + \beta_8 \cdot Owner_{it} + \mu_{it} + \varepsilon_{it} \quad (3)$

where firm fixed and year fixed effects are represented by μ_{it} and the error by ϵ_{it} . The fixed effects of the companies take into account unobservable and constant features of the companies that are potentially associated with corporate performance.

ANALYSIS OF RESULTS

Descriptive Statistics

In Table 2, we provide the main descriptive statistics of the variables. The mean value of Tobin's Q ratio is 1.59. Institutional directors account for 21% of the representation, while pressure-sensitive and pressure-resistant directors represent, on average, 7.10% and 13.90%, respectively. 15.97% of the sample firms do not have institutional directors. Consistent with Li et al. (2006), who demonstrated the worldwide propensity to increase the presence of institutional directors serving on boards, this study shows that the percentage of institutional directors on Spanish boardrooms increased from 19.60% in 2004 to 21.70% in 2010. According to panel B, around 73% of companies have at least one institutional directors represent only 5%. The proportion of leverage (LEV) represents 60.20% and the ownership concentration 30.10%. The average age of companies is 46.83 years and the firm size is 13.67 (log of total assets expressed in thousands of euros). Finally, duality represents 33% of the firm observations.

--Insert table 2 about here—

In Table 3 we show the correlation coefficients of all the variables. Except for the INST-RESIST combination (which do not interact in the regressions), the coefficients report low values and, consequently, multicollinearity should not be considered as a concern. To make sure, we have also calculated the vector inflation factors (VIF's). The values of the VIF's are below 3 and, therefore, our findings are not skewed by multicollinearity (Kutner et al., 2005).

--Insert table 3 about here—

An exploratory examination was performed. In order to do so, the sample was split up into two groups, based on the proportion of institutional directors on boards: organisations whose proportion of institutional directors is higher than the INST median comprise one group and companies whose proportion of institutional directors is lower than the INST median form the other group. The remaining variables (SENSIT, RESIST and INDEP) follow the same pattern. Thus, we perform an analysis of mean differences in order to examine whether firm value is different between both groups. Table 4 shows the results. Despite being inconclusive, the results show that institutional directors are connected with differences in corporate performance. Particularly, pressure-resistant and pressure-sensitive directors, who represent pressure-resistant and pressure-sensitive investors, respectively, have a negative impact on company value. Additionally, the insignificant effect of directors representing independent directors supports previous findings regarding the null effect of these directors on Spanish boards (e.g. García-Osma and Gill de Albornoz, 2007; Lorca et al., 2011). According to previous literature, the non-significant influence of independent directors may be due to a "real lack of independence" of these directors in Spanish.

--Insert table 4 about here—

Baseline Regression Results

Table 5 provides the estimates for the first hypothesis with the baseline model. The findings reporting the impact on company value of institutional directors on boards are shown in column 1. According to these results, the percentage of institutional directors is negatively associated with firm value and, consequently, the first hypothesis (H1) cannot be rejected. Our findings support the thesis of the passive monitoring role that institutional directors play with respect to the management team, given that an active monitoring role performed in firms where they have invested can cause conflicts of interest to arise in current or future commercial alliances with the firm, due to the free-rider problem, short-sighted horizons or because they lack the necessary skills (Bushee, 1998; Taylor, 1990).

--Insert table 5 about here--

In columns 2 and 3 of Table 5, we separate the different types of pressure-sensitive and pressure-resistant directors. Our results do not find a different role for sensitive representative directors than resistant representatives. The findings for resistant directors are negative and significant at 5%, in line with the hypothesis H2a. Pressure-sensitive directors are also negatively associated with corporate value at 10%, consistent with hypothesis H2b. This evidence suggests that firm value is negatively driven by both types of directors. This result may be justified because directors who represent resistant investors are primarily oriented towards stock market-based measures of performance. As a result, they may be much more concerned about selling the shares of an underperforming company than about investing time and energy in instituting a process of corporate restructuring. Additionally, pressureresistant directors, appointed by investors who frequently do not maintain commercial links with the companies where they hold shares, may find that potential commercial ties with the firm arise in the future (e.g. the company might wish to choose a pension fund provider for its employees) and, consequently, this view may also support the thesis that they could cooperate with managers (Van Nuys, 1993). In this line, Woidtke (2002) reported that institutional investors, such as public pension funds, were negatively associated with corporate performance. Additionally, pressure-sensitive directors maintain both commercial and investment ties with firms and, consequently, will align with the interests of management in order to avoid jeopardising the business relationship.

The results were also confirmed for independent directors. As expected, board independence has no effect on corporate performance, perhaps because the directors' "real independence" is called into question. Findings are in line with previous research conducted in Spain (García-Meca and Sánchez-Ballesta, 2009; García-Osma and Gill de Albornoz, 2007; Lorca et al., 2011; Pucheta-Martínez and García-Meca, 2014) reporting that effective

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monitoring of management is exercised by institutional board membership and not by independent directors. Regarding the control variables, ownership concentration (OWNER) and firm size (SIZE) have a negative impact on company value in the three models. The remaining control variables are insignificant.

Endogeneity concerns between institutional directors (resistant and sensitive) and firm value have also been addressed. Thus, we wonder if institutional (sensitive and resistant) directors have a negative impact on company performanceor, to the contrary, companies with low company value attract institutional (sensitive and resistant) directors to their boards. Despite the greater likelihood that the causality runs from institutional (resistant and sensitive) directors to corporate value, it is also likely that firm performance may impact on board composition. This issue is approached by lagging all the independent variables (INST, SENSIT and RESIST), in line with Ozkan (2007), who defends that the lagging of explanatory variables may mitigate endogeneity concerns. In Table 6, we report the findings, which are in line with our main results, i.e. institutional directors (INST), and especially resistant directors (RESIST), are negatively and significantly related to firm performance (p<0.01).

--Insert table 6 about here-

Analysis Extension

In the analysis extension, we split the sample according to the period of time. Then, we distinguish between the pre-crisis time period (2004-2007) and the crisis time period (2008-2010). This analysis is highly relevant, according to the results of Manconi et al. (2012), because institutional investors played a significant role in propagating the crisis. We assume that the short horizon of resistant institutional investors can force managers to adopt adverse short-term strategies that may impair future performance, especially during turbulent

market periods. The results from Table 7 show that when we only consider the pre-crisis time period, the variables representing institutional directors (INST, RESIST and SENSIT) are not significant in all the different models. Concretely, institutional directors only affected corporate value from 2008 to 2010. These findings suggest that before the crisis these directors did not affect firm performance.

On the other hand, if we look at the crisis time period, we observe that institutional directors contributed towards reducing the value of the firm, and if we distinguish these directors according to whether they are sensitive or resistant, we see that the negative effect is again mainly driven by those directors appointed by resistant investors (p<0.01). Therefore, these results suggest that pressure-resistant institutional directors affect performance negatively because they overvalue short-term profits potential due to their myopic perspective. Our results confirm the findings provided by Malconi et al (2012), who also suggested that during the crisis time period the pressure to sell and to meet liquidity needs were less serious problems for sensitive investors than for resistant investors.

--Insert table 7 about here—

Sensitivity Analysis

In order to check the robustness of the baseline results, we ran models 1, 2 and 3 using the market to book ratio (MTB) (Shapiro and Li, 2016) as a dependent variable. As we see in Table 8, the variable institutional directors INST is significant (p<0.01) as are directors appointed by resistant investors RESIST (p<0.01). However, the variable representing sensitive directors is no longer significant, as in the baseline model, and foreign directors increase the performance of the company (p<0.01). Therefore, the results show that representatives of institutional investors have a negative impact on corporate performance, but

when we consider pressure-resistant directors in particular then we observe no significant impact.

--Insert table 8 about here--

CONCLUSIONS

Prior research reports the importance of dominant institutional investors around the world. Nevertheless, there is scant evidence on institutional investors performing as directors. We hypothesise that the motivations of institutional directors to impact on company performance depend on the sort of business ties between the institutional investors they represent and the firms. The impact on firm value of pressure-sensitive directors, representatives of shareholders that maintain investment and commercial relationships with the firm, and pressure-resistant directors, representatives of shareholders that only maintain commercial ties with companies, is also explored.

Our paper shows that in contexts where investor protection is low and regulatory support weak, institutional directors serving on boards show a negative relationship with corporate performance. The findings report that pressure-sensitive institutional and pressureresistant institutional directors do not behave differently. Their main orientation to stock market-based measures of performance can justify these results and explain why directors with no business relationships may be much more likely to be concerned about selling the shares of an underperforming company than investing time and energy in instituting a process of restructuring the firm. Therefore, pressure-resistant institutional directors might align with the management team, or might become entrenched in order to attain total control of companies and obtain private benefits, thus impacting negatively on company performance. The results also suggest that an emphasis on board independence alone may not be enough to enhance value creation since this does not impact on firm value, confirming previous results regarding the lack of significance of these directors in Spain. The results are robust to alternative measures of value creation.

We also analyse whether the effect of institutional directors changed before and during the crisis. Our evidence demonstrates that during the crisis the negative effect of institutional investors only took place in the resistant group. These findings suggest that the short horizon of resistant institutional investors could lead managers to adopt adverse short-term strategies that impair performance, especially during turbulent market periods where liquidity problems of resistant investors were higher.

This paper offers significant academic and political implications since it shows empirical evidence of how the behaviour of institutional directors, appointed by institutional investors, affects corporate performance, in a setting different from the Anglo-Saxon one, where examining the role performed by these directors becomes more complicated, given their low presence on boards. The findings contribute to the academic literature by showing that institutional investors, when acting as directors on boards, may not perform an active monitoring role affecting firm performance. Moreover, our results note a negative effect of these directors, which was even higher during the financial crisis. Accordingly, researchers who examine the role played by institutional investors should consider not only institutional investors' shareholding, but also their involvement with other corporate governance mechanisms such as boards.

CONFLICT OF INTEREST

The authors declare that they have no conflict of interest. The authors acknowledge the financial support of the Spanish Ministry of Economy (Research Project ECO 2017-82259-R).

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Variable	Description
Q TOBIN	The market value of common stock plus book value of
	long term debt divided by book value of total assets.
INST	Measured by the number of institutional members on
	boards over the total number of members on boards
SENSIT	Measured by the number of pressure-sensitive members
	on boards over the total number of members on boards
RESIST	Measured by the number of pressure-resistant members
	on boards over the total number of members on boards
INDEP	Measured by the number of independent members on
	boards over the total number of members on boards
FOREIGN	Measured by the number of foreign directors on boards
	over the total number of members on boards
LEV	Measured by debt over total assets
OWNER	The ownership concentration in the firm
DUALITY	Dummy variable: 1 if the CEO also serves as chair of the
	board and 0, otherwise
AGE	The age in years of the company
SIZE	The log of total assets

Table 1. Description and calculation of the variables

Table 2. Descriptive statistics

Panel A. Continuous variables

	Mean	Std. Dev	Q25	Q50	Q75
QTOBIN	1.599	1.056	1.000	1.280	1.650
INST	0.210	0.191	0.000	0.180	0.310
SENSIT	0.071	0.109	0.000	0.000	0.130
RESIST	0.139	0.182	0.000	0.090	0.200
INDEP	0.306	0.188	0.200	0.300	0.430
FOREIGN	0.056	0.119	0.000	0.000	0.067
LEV	0.602	0.185	0.494	0.618	0.736
OWNER	0.301	0.257	0.101	0.248	0.481
AGE	46.83	28.346	24.000	40.000	66.000
SIZE	13.67	1.931	12.244	13.504	14.868

Panel B. Dummies variables

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	0	% (0)	1	% (1)
DUALITY	402	67%	198	33%
INST_D	160	26.67%	440	73.33%
SENSIT_D	356	59.34%	244	40.66%
RESIST_D	264	40%	336	56%

Q TOBIN is the proxy used for measuring corporate performance; INST shows the percentage of institutional members on boards; SENSIT is the percentage of pressure-sensitive directors on boards; RESIST is the percentage of pressure-resistant directors on boards; INST_D; SENSIT_D and RESIS_D are the dummy variables of institutional, sensitive and resistant directors respectively. INDEP is the proportion of independent directors on boards; FOREIGN is the proportion of foreign directors on boards; LEV is measured by debt over total assets; OWNER is the ownership concentration in the firm; DUALITY is a dummy coded 1 if the CEO also serves as chair of the board and 0, otherwise; SIZE is the log of total assets and AGE of the firm is the age in years of the company.

Table 3. Correlation Matrix

	QTOBIN	INST	SENSIT	RESIST	FOREIGN	INDEP	LEV	OWNER	AGE	SIZE
QTOBIN	1									
INST	-0.134**	1								
SENSIT	-0.110**	0.361**	1							
RESIST	-0.074	0.830**	-0.221**	1						
FOREIGN	0.129**	0.060	-0.090*	0.117**	1					
INDEP	0.002	-0.377**	-0.070	-0.352**	-0.165**	1				
LEV	-0.057	0.119**	-0.034	0.143**	0.050	0.025	1			
OWNER	-0.064	-0.076	0.053	-0.111***	0.321**	-0.103*	0.100^{*}	1		
AGE	-0.005	0.162**	-0.026	0.184**	0.041	-0.091*	0.147**	-0.021	1	
SIZE	-0.104*	0.106**	0.194**	-0.006	0.164**	0.198**	0.442**	0.217**	0.190**	1

Q TOBIN is the proxy used for measuring corporate performance; INST shows the percentage of institutional members on boards; SENSIT is the percentage of pressure-resistant directors on boards; FOREIGN is the proportion of foreign directors on boards; INDEP is the proportion of independent directors on boards; LEV is measured by debt over total assets; OWNER is the ownership concentration in the firm; DUALITY is a dummy coded 1 if the CEO also serves as chair of the board and 0, otherwise; SIZE is the log of total assets and AGE of the firm is the age in years of the company. p<0.1; *p<0.05; **p<0.01.

Table 4. Test of means comparison

	QTOBIN		
	Under median	Over median	<i>p</i> -value
INST	1.679	1.416	0.002
SENSIT	1.622	1.458	0.047
RESIST	1.633	1.441	0.020
INDEP	1.590	1.525	0.441

Q TOBIN is the proxy used for measuring corporate performance; INST shows the percentage of institutional members on boards; SENSIT is the percentage of pressure-sensitive directors on boards; RESIST is the percentage of pressure-resistant directors on boards; INDEP is the proportion of independent directors on boards. P-value is the significance.

Table 5. Regression models

	(1)	(2)	(3)
INST	-0.787***		
	(-3.227)		
SENSIT		-0.679*	
		(-1.690)	
RESIST			-0.576**
			(-2.262)
INDEP	-0.045	0.227	0.101
	(-0.176)	(0.958)	(0.408)
FOREIGN	1.723***	1.608***	1.813***
	(4.602)	(4.207)	(4.791)
LEV	0.051	-0.055	0.093
	(0.203)	(-0.218)	(0.368)
OWNER	-0.457***	-0.347**	-0.439**
	(-2.580)	(-1.978)	(-2.456)
DUALITY	-0.030	-0.021	-0.027
	(-0.338)	(-0.238)	(-0.309)
AGE	0.001	0.000	0.001
	(0.663)	(0.274)	(0.690)
SIZE	-0.050*	-0.052*	-0.065**
	(-1.938)	(-1.944)	(-2.530)
Firm fix effects	Yes	Yes	Yes

Q TOBIN is the proxy used for measuring corporate performance; INST shows the percentage of institutional members on boards; SENSIT is the percentage of pressure-sensitive directors on boards; RESIST is the percentage of pressure-resistant directors on boards; INDEP is the proportion of independent directors on boards; FOREIGN is the proportion of foreign directors on boards; LEV is measured by debt over total assets; OWNER is the ownership concentration in the firm; DUALITY is a dummy coded 1 if the CEO also serves as chair of the board and 0, otherwise; SIZE is the log of total assets and AGE of the firm is the age in years of the company. * p<0.1; **p<0.05; ***p<0.01

	(1)	(2)	(3)
INST_1	-0.795***		
	(-3.179)		
SENSIT_1		-0.707	
		(-1.639)	
$RESIST_1$			-0.695***
			(-2.648)
INDEP	-0.009	0.283	0.094
	(-0.033)	(1.101)	(0.361)
FOREIGN	1.331***	1.091***	1.425***
	(3.359)	(2.628)	(3.570)
LEV	0.109	0.037	0.185
	(0.413)	(0.133)	(0.696)
OWNER	-0.490***	-0.422**	-0.492***
	(-2.662)	(-2.2385)	(-2.650)
DUALITY	-0.022	-0.008	-0.012
	(-0.236)	-(0.089)	(-0.132)
AGE	0.002	0.001	0.002
	(1.135)	(0.611)	(1.130)
SIZE	-0.045*	0.074***	-0.060**
	(-1.656)	(4.001)	(-2.234)
Firm fix effects	Yes	Yes	Yes

Table 6. Estimates of the baseline models lagging the independent variables

Q TOBIN is the proxy used for measuring corporate performance; INST shows the percentage of institutional members on boards; SENSIT is the percentage of pressure-sensitive directors on boards; RESIST is the percentage of pressure-resistant directors on boards; INDEP is the proportion of independent directors on boards; FOREIGN is the proportion of foreign directors on boards; LEV is measured by debt over total assets; OWNER is the ownership concentration in the firm; DUALITY is a dummy coded 1 if the CEO also serves as chair of the board and 0, otherwise; SIZE is the log of total assets and AGE of the firm is the age in years of the company. * p<0.1; **p<0.05; ***p<0.01

	Before crisis			Crisis		
	(1)	(2)	(3)	(1)	(2)	(3)
INST	-0.497			-1.133***		
	(-1.361)			(-3.698)		
SENSIT		-0.757			-0.615	
		(-1.290)			(-1.173)	
RESIST			-0.214			-1.001***
			(-0.564)			(-3.101)
INDEP	0.183	0.330	0.324	-0.227	0.187	-0.063
	(0.501)	(0.989)	(0.912)	(-0.662)	(0.567)	(-0.188)
FOREIGN	1.987***	1.863***	2.009***	1.579***	1.485***	1.757***
	(3.337)	(3.098)	(3.346)	(3.537)	(3.184)	(3.878)
LEV	-0.287	-0.385	-0.274	0.358	0.227	0.434
	(-0.737)	(-0.977)	(-0.697)	(1.174)	(0.471)	(1.398)
OWNER	-0.374	-0.306	-0.346	-0.599***	-0.427*	-0.597**
	(-1.453)	(-1.204)	(-1.335)	(-2.594)	(-1.838)	(-2.547)
DUALITY	-0.151	-0.149	-0.149	0.116	0.137	0.117
	(-1.172)	(-1.159)	(-1.153)	(1.007)	(1.163)	(1.006)
AGE	-0.001	0.000	-0.001	0.004*	0.003	0.004
	(-0.466)	(0.274)	(-0.489)	(1.861)	(1.401)	(1.902)
SIZE	-0.065*	-0.512	-0.076**	-0.037	-0.042	-0.056*
Time Constant	(-1.657)	(-1.944)	(-1.974)	(-1.133)	(-1.219)	(-1.692)
r Irm IIX effects	Yes	Yes	Yes	Yes	Yes	Yes

Table 7. Regression models and crisis effect

Q TOBIN is the proxy used for measuring corporate performance; INST shows the percentage of institutional members on boards; SENSIT is the percentage of pressuresensitive directors on boards; RESIST is the percentage of pressure-resistant directors on boards; INDEP is the proportion of independent directors on boards; FOREIGN is the proportion of foreign directors on boards; LEV is measured by debt over total assets; OWNER is the ownership concentration in the firm; DUALITY is a dummy coded 1 if the CEO also serves as chair of the board and 0, otherwise; SIZE is the log of total assets and AGE of the firm is the age in years of the company.* p<0.1; **p<0.05; ***p<0.01

	(1)	(2)	(3)
INST	-2.038***		
	(-2.746)		
SENSIT		-0.874	
		(-0.715)	
RESIST			-1.852**
			(-2.396)
INDEP	-0.165	0.626	0.095
	(-0.212)	(0.867)	(0.126)
FOREIGN	3.596***	3.968***	4.420***
	(3.731)	(3.413)	(3.849)
LEV	2.529***	2.238***	2.692***
	(3.319)	(3.020)	(3.494)
OWNER	-1.165**	-0.895*	-1.169**
	(-2.162)	(-1.676)	(-2.156)
DUALITY	0.180	0.203	0.183
	(0.163)	(0.753)	(0.681)
AGE	-0.001	-0.003	-0.001
	(-0.013)	(-0.592)	(-0.227)
SIZE	-0.109	-0.131	-0.148*
	(-1.380)	(-1.596)	(-1.888)
Fix effects	Yes	Yes	Yes

MTB is the proxy used for measuring corporate performance; INST shows the percentage of institutional members on boards; SENSIT is the percentage of pressure-sensitive directors on boards; RESIST is the percentage of pressure-resistant directors on boards; INDEP is the proportion of independent directors on boards; FOREIGN is the proportion of foreign directors on boards; LEV is measured by debt over total assets; OWNER is the ownership concentration in the firm; DUALITY is a dummy coded 1 if the CEO also serves as chair of the board and 0, otherwise; SIZE is the log of total assets and AGE of the firm is the age in years of the company. * p<0.1; **p<0.05; ***p<0.01