

Boards of Directors' Contribution to Strategy: A Literature Review and Research Agenda

Amedeo Pugliese, Pieter-Jan Bezemer, Alessandro Zattoni, Morten Huse, Frans A.J. Van den Bosch, and Henk W. Volberda

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	RSM Erasmus University / Erasmus School of Economics			
	Erasmus Universiteit Rotterdam			
	P.O.Box 1738			
	3000 DR Rotterdam, The Netherlands			
	Phone: + 31 10 408 1182			
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Boards of Directors' Contribution to Strategy:

A Literature Review and Research Agenda

Amedeo Pugliese^{*}, University of Naples "Federico II" Pieter-Jan Bezemer, Rotterdam School of Management, Erasmus University Alessandro Zattoni, University of Naples "Parthenope" and SDA Bocconi, Milan Morten Huse, BI Norwegian School of Management Frans A.J. Van den Bosch, Rotterdam School of Management, Erasmus University Henk W. Volberda, Rotterdam School of Management, Erasmus University

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Abstract

Manuscript Type: Literature review.

Research Question/Issue: Over the last four decades, research on the relationship between boards of directors and strategy has proliferated. Yet to date there is little theoretical and empirical agreement regarding the question of how boards of directors contribute to strategy. This review assesses the extant literature by highlighting emerging trends and identifying several avenues for future research.

Research Findings/Insights: Using a content-analysis of 150 articles published in 23 management journals until 2007, we describe and analyze how research on boards of directors and strategy has evolved over time. We illustrate how topics, theories, settings and sources of data interact and influence insights about board-strategy relationships during three specific periods.

Theoretical/Academic Implications: Our study illustrates that research on boards of directors and strategy evolved from normative and structural approaches to behavioral and cognitive approaches. Our results encourage future studies (i) to examine the impact of institutional and context-specific factors on the (expected) contribution of boards to strategy, and (ii) to apply alternative methods to fully capture the impact of board processes and dynamics on strategy-making.

Practical/Policy Implications: The increasing interest in boards of directors' contribution to strategy echoes a movement towards more strategic involvement of boards of directors. However, best governance practices and the emphasis on board independence and control may hinder the board contribution to the strategic decision-making. Our study invites investors and policy-makers to consider the requirements for an effective strategic task when they nominee board members and develop new regulations.

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^{*} *Corresponding Author:* Amedeo Pugliese, University of Naples "Federico II". Email: <u>amedeo.pugliese@unina.it</u>. Department of Business Economics, Monte Sant'Angelo, 80122, Naples (Italy). Tel 0039 (0)81675066. Fax: 0039 (0)81 669987.

INTRODUCTION

Over the last few decades, corporate governance systems have undergone profound changes worldwide. The globalization and liberalization of financial markets, corporate governance scandals and stronger demands for accountability and transparency have placed the duties and functioning of boards of directors at the centre of the corporate governance debate (Kiel and Nicholson, 2003; Ingley and Van der Walt, 2005). The societal call for an increasing involvement of the board of directors has raised the question what the appropriate role of boards should be. While scholars and practitioners have generally acknowledged the importance of adequate board control and independence (Baysinger and Hoskisson, 1990; Jensen and Zajac, 2004), boards' involvement in their strategic role, or the lack thereof, has been widely debated (Zahra and Pearce, 1989; Golden and Zajac, 2001; Daily, Dalton and Cannella, 2003).

The discussion on boards' strategic involvement has been fueled by a combination of contextual factors, alternate theoretical perspectives and inconclusive empirical results. *First*, in the 1970s, it was observed that US boards of directors had been rather passive in the wake of corporate failures and more strategic involvement was necessary to restore the public confidence (Clendenin, 1972; Heller and Milton, 1972; Mace, 1976; Machin and Wilson, 1979; Vance, 1979). More recently, corporate governance reforms (Aguilera and Cuervo-Cazurra, 2004; Enrione, Mazza and Zerboni, 2006; Sheridan, Jones and Marston, 2006) and the increasing influence of institutional investors may have brought board members closer to strategic decision-making (Judge and Zeithaml, 1992; Hoskisson, Hitt, Johnson and Grossman, 2002). These developments have stimulated boards of directors to challenge CEOs, and to become more involved in strategy, an area that in the past was exclusively controlled by CEOs (Ruigrok, Peck and Keller, 2006; Monks and Minow, 2008). *Second*, the emergence of alternative, partially conflicting theoretical viewpoints have contributed to the debate. Theories, such as agency

theory, resource dependency theory and stewardship theory, have ascribed different responsibilities to boards with regard to strategy (Davis, 1991; Maassen and Van Den Bosch, 1999). *Third*, while studies suggest that board members are becoming more aware of their strategy role (Demb and Neubaurer, 1992; Heracleous, 2001; Huse, 2005), scholars have regularly highlighted the disagreement in the empirical research on the relationship between boards and strategy (Johnson, Daily and Ellstrand, 1996; Deutsch, 2005).

The above theoretical pluralism and empirical inconclusiveness in the literature on boards of directors and strategy raises the following questions: what is the stance of research in this area? How has the field been evolving over time? And what are the main challenges and future opportunities? In this paper we analyze 150 articles on boards and strategy published in 23 management journals until 2007, in order to provide answers to these questions. Thereby, this paper contributes to the literature on boards and strategy in three ways. *First*, it describes how studies on boards and strategy have been evolving and illustrates how certain topics, theories, settings and sources of data interact and have influenced our knowledge about board-strategy relationships during certain periods. For instance, our data reveal that during the 1990s the field was dominated by empirical studies in a US setting that mainly refer to agency theory and focus on the determinants and consequences of boards' strategic involvement. Second, the paper complements previous literature reviews that have (partially) covered this domain (Zahra and Pearce, 1989; Johnson et al., 1996; Deutsch, 2005). Given the time elapsed since these reviews, the intensification of the corporate governance debate internationally and the large number of studies conducted on boards of directors and strategy more recently, it is the right time for due reflection on achievements in this area (Huse, 2005). Third, the paper highlights several avenues to advance the field of study. Our findings encourage governance scholars to further investigate the impact of contextual forces at multiple levels, to further comprehend board processes and dynamics, and to adopt methods aimed at opening the black box of board research. Finally, the article has implications for practice. Existing board practices emphasize, in fact, board control and independence as antecedents of good governance, but these aspects may also hinder the board's contribution to strategy-making. In line with some recent works, our study suggests that the requirements for an effective strategic task should be taken into account while composing boards and devising new regulations.

The paper is structured as follows: section one describes the basics of the board-strategy debate and the theoretical pluralism and empirical inconclusiveness emerging from the literature on boards and strategy. Section two describes the research method, i.e., how we selected journals and determined our sample of 150 articles to be included in our review, how we coded the content of each article and how data were analyzed statistically. Next, in section three we present the results of our review, describe how the field has evolved and illustrate how certain topics, theories, settings and sources of data interact and have dominated in certain time periods. In our final section, we discuss the implications for both theory and practice and present a research agenda for future studies on boards and strategy.

THEORETICAL AND EMPIRICAL DEBATE ON BOARDS AND STRATEGY

The appropriate role of the board of directors in formulating and implementing strategy has been long debated (Andrews 1981a, 1981b; Judge and Zeithaml, 1992; McNulty and Pettigrew, 1999; Useem, 2003). While the literature has acknowledged the importance and need for adequate board control and independence (Baysinger and Hoskisson, 1990; Jensen and Zajac, 2004), both the contributions of boards to strategy and the desirability of such practice have remained topics of discussion (Golden and Zajac, 2001; Daily *et al.*, 2003). In light of a multitude of theoretical lenses and empirical findings in the management literature, Zahra and Pearce's observation that

'there is controversy over the nature of directors' strategic role' (1989: 328) still seems to be topical after twenty years of research.

The debate on boards' strategic contribution dates as far back as the 1970s. During this decade, several US scholars and practitioners observed that boards were rather passive in the wake of US corporate failures and that more strategic involvement was necessary to restore public confidence (Clendenin, 1972; Mace, 1976; Vance, 1979). A growing theoretical debate was boosted by Fama and Jensen's seminal work (1983) in which they distinguished decision management, i.e. initiating and implementing (strategic) decisions, and decision control, i.e. ratifying and monitoring (strategic) actions. The two tasks were ascribed to the top management team and the board of directors respectively. Their rationale has influenced the debate ever since. By relying on a clear distinction of responsibilities between boards and management, scholars have viewed the potential contributions of boards to strategy as fairly limited due to their distance from day-to-day operations, the presence of information asymmetries and the need to remain independent (Conger, Lawler and Finegold, 2001; Hendry and Kiel, 2004; Charan, 2005). Instead, others have argued that boards of directors are legally responsible for the strategy of firms (Harrison, 1987; Coffee, 2005; Yawson, 2006) and that boards are in an excellent position to contribute to strategy (Andrews, 1980; Tricker, 1984; Goodstein, Gautum and Boeker, 1994; Carpenter and Westphal, 2001).

Theoretical Pluralism in the Board-Strategy Debate

From a theoretical standpoint, the debate around board strategic involvement has been fueled by conflict and consensus theories (Davis, 1991; Muth and Donaldson, 1998; Maassen and Van Den Bosch, 1999). A conflict perspective conceptualizes managers as self-interested agents that should be closely monitored (Jensen and Meckling, 1976; Eisenhardt, 1989). For instance, ag*ency*

theory posits that boards affect strategic choices by preventing managers from acting opportunistically at the expense of shareholders (Mizruchi, 1983). In this view, boards are not expected to initiate and implement strategies, but they contribute through ratifying and monitoring strategic decisions (Fama and Jensen, 1983; Goodstein et al., 1994). Board involvement in strategy appears to conflict with this view, as (i) it would make boards of directors co-responsible for strategic decisions and (ii) it would jeopardize the required distance between board members and managers (Boyd, 1990, 1994; Huse, 1994; Sundaramurthy and Lewis, 2003).

A consensus perspective conceptualizes managers as intrinsically motivated agents acting in the best interest of the firm (Davis, Schoorman and Donaldson, 1997). Accordingly, through various theoretical lenses boards are defined as organizational bodies that may support empowered managers in strategy formulation and implementation (Bezemer, Maassen, Van den Bosch and Volberda, 2007; Huse, 2007). For example, *resource dependency theory* suggests that board members are in an excellent position to contribute to (strategic) decision-making by providing access to resources on which firms depend (Pfeffer, 1972, 1973; Pfeffer and Salancik, 1978; Hillman and Dalziel, 2003). The *stewardship theory* challenges the rationale of agency theory by arguing that the interests of managers and board members do not necessarily collide (Davis *et al.*, 1997; Muth and Donaldson, 1998). In this perspective, the role of boards is to facilitate and empower managers, also in the realm of strategy. More lately, *cognitive and behavioral approaches* have emphasized the importance of understanding cognitive contributions of board members as well as the impact of boardroom dynamics on strategic decision-making (Pettigrew, 1992; McNulty and Pettigrew, 1999; Rindova, 1999; Pye and Camm, 2003).

Empirical Inconclusiveness in the Board-Strategy Debate

Aside to the theoretical debate, empirical findings provide mixed results as well. In recent decades scholars have regularly emphasized the presence of a wealth of inconclusive empirical findings (Deutsch, 2005). On the one hand, studies have shown that boards have been rather passive and subject to CEOs and executives' dominance (Mace, 1971; Herman, 1981; Kosnik, 1987; Lorsch and McIver, 1989). Furthermore, anecdotal evidence suggests that boards might destroy value when they become involved in strategy (cf. Jensen, 1993; Fulghieri and Hodrick, 2006; Hitt, Harrison and Ireland, 2006). On the other hand, scholars have shown that boards are becoming more actively involved in strategy (Zahra, 1990; Zahra and Filatotchev, 2004; Ingley and van der Walt, 2005; Ravasi and Zattoni, 2006; Schmidt and Bauer, 2006). Moreover, boards have affected important elements of strategies, such as the scope of the firm (Tihanyi, Johnson, Hoskisson and Hitt, 2003; Jensen and Zajac, 2004), entrepreneurship and innovation (Fried, Burton and Hisrich, 1998; Zahra, Neubaum and Huse, 2000; Hoskisson et al., 2002), strategic change (Johnson, Hoskisson and Hitt, 1993; Westphal and Fredrickson, 2001; Filatotchev and Toms, 2003), R&D strategies (Baysinger, Kosnik and Turk, 1991; Kor, 2006) and internationalization (Sanders and Carpenter, 1998; Datta, Rajagopalan and Zhang, 2003).

In sum, the literature on boards of directors and strategy may be characterized by theoretical pluralism and by empirical inconclusiveness, both originating from scholarly contributions and anecdotal evidence. In the remainder of this paper, we seek to highlight how distinct patterns of research have emerged over the years and their key attributes.

METHOD

Selection of Journals and Papers

To examine the evolving literature on boards and strategy, we decided to focus on peer-reviewed studies published in management journals, regardless of their impact factor (Seglen, 1994). We

selected all journals included in the management category within the ISI-Web of Knowledge during 2007. Our search produced 81 records in total. In the next phase, we used the databases *ABI/Inform, Business Source Premier, Ebsco-Host, JSTOR* and *Swetsnet* to search for all paper publications containing simultaneously the terms 'board' and 'strateg*' or 'director' and 'strateg*' in the title, abstract and/or key words. This approach enabled us to identify a set of articles directly referring to the debate on boards' and directors' contribution to strategy. This procedure resulted in 371 hits in total: 150 papers (40.4%) turned out to be relevant to our examination. The large difference between the number of hits and the number of included papers is due to several factors. We excluded papers referring to board games, papers using the term across-the-board, fictive Harvard cases, letters from editors, book reviews, papers referring to organizations with the term 'board' in their name and papers referring to other management layers than the board of directors. In sum, our final sample consists of 150 articles published in 23 journals from 1972 (first included paper) until 2007.

Content Analysis

In order to analyze the evolving nature of studies on boards of directors and strategy, two raters have independently analyzed and coded the set of 150 articles (Coffey and Atkinson, 1996; Krippendorf, 2005). The two raters were asked to codify all basic elements of a paper: (i) type of article, (ii) main research topic, (iii) use of theories, (iv) research setting, (v) source of data and (vi) the definition of board strategic involvement (Insch, Moore and Murphy, 1997). The coding scheme was pre-tested on two sub-samples of 30 articles after which the raters came to an agreement about the final set of items to be used in the classification for each category. A review was then conducted on the whole set of articles (D'Aveni and McMillan, 1994). At the end of the coding procedure, the two sets of data were matched. There appeared to be a high overlap in the

responses: only 54 out of 828 items were coded differently by the two raters. Inter-rater reliability scores were calculated and the percent agreement (93.5%) and Cohen's Kappa (0.916) were both above the acceptance threshold (Cohen, 1960; Dewey, 1983). A final meeting was arranged to discuss the 54 inconsistencies in the responses. To reconcile the disagreements, the articles were re-read and recoded. If the raters still did not agree on the coding, a senior strategy professor – who was involved in the research project – was asked to provide a clarifying interpretation (Lee, 1999). In the following sections we will discuss all categories in more detail.

(*i)* Type of article. The 150 articles were differentiated according to their nature: 'conceptual' versus 'empirical'. Papers were coded 'conceptual' when they aimed to advance or refine theory and were solely based on deductive reasoning without any empirical metrics. Papers were labeled 'empirical' if authors applied inductive logics, described their methods in a separate section and argued on the strength of data obtained from qualitative research methods (i.e. interviews, participant observation and anecdotes) and/or quantitative methods (i.e. archival data and surveys).

(*ii*) *Main research topic*. Building upon prior studies (e.g. Zahra and Pearce, 1989; Pearce and Zahra, 1992; Stiles, 2001; Huse, 2005) we distinguished four groups of papers in relation to the main research topic. The first group examines the *determinants of board strategic involvement*. Among others, scholars have sought to relate environmental characteristics, ownership structure, board composition and incentive mechanisms to various levels of board strategic involvement. The second group of studies investigates the *consequences of board strategic involvement*. For instance, scholars have addressed the impact of specific board characteristics on strategic outcomes, such as diversification, internationalization, innovation and strategic change. The third group of papers explores boards' *participation in strategic decision-making processes*, i.e., the ways in which boards contribute internally to decision making

processes by interacting with TMTs in various phases. Finally, the fourth group of papers discusses from a normative stance why board strategic involvement may or may not be desirable. Topics of debate include the reasons for the perceived passivity of boards of directors in this respect and the question how far board involvement into strategy should be going.

(*iii*) Use of theories. To examine the theoretical development of the field, we mapped to which theories each paper explicitly referred. Given the widespread application of agency theory in the literature on boards and strategy, we decided to create a variable capturing whether a paper referred to: (i) agency theory solely; (ii) multiple theories, including agency theory and (iii) other theories than agency theory or no theory.

(*iv*) *Research Setting.* As highlighted by comparative corporate governance studies highlight, institutional contexts widely vary between nations and have a profound impact on local corporate governance structures and practices (Aguilera and Cuervo-Cazurra, 2004; Aguilera, Filatotchev, Gospel and Jackson, 2008; Zattoni and Cuomo, 2008). Therefore an important dimension to our analysis is added by examining the empirical setting in which research on boards and strategy has been conducted. As most empirical articles in our sample are based on US data, we decided to use the following categorization: (i) articles using exclusively data drawn from the US; (ii) articles using data from multiple-countries, including the US and (iii) articles using data drawn from a non-US context.

(v) Source of data. To provide insights in the use of different data sources, we coded the empirical articles with the following six categories: i) interviews, ii) anecdotal evidence, iii) archival data, iv) survey data, v) direct observations and vi) combinations of the above-mentioned sources. In the latter category we only included articles using combinations of interviews and survey data, interviews and archival data, and survey data and archival data.

(vi) Definition of board strategic involvement. Board strategic involvement is a latent construct and no single way to define or interpret it emerges from literature (Ravasi and Zattoni, 2006). Building upon prior studies (Zahra and Pearce, 1990; 1992; Judge and Zeithaml, 1992; McNulty and Pettigrew, 1999), we distinguished four broad categories to classify the definition of board strategic involvement. The first category includes studies assessing how boards of directors impact on the *general strategy* of companies. For example, by developing the mission, establishing long-term targets and allocating resources (Zahra and Pearce, 1990; Volberda, Baden-Fuller and Van den Bosch, 2001). The second group of papers investigates how boards contribute to *specific strategic outcomes*. The majority of papers in this category are input-output studies that aim to identify how board composition affects strategic outcomes, such as innovation, change, diversification, and mergers and acquisitions (Johnson et al., 1996). The third group encompasses research that explores how boards participate in various phases of *strategic* decision-making through interacting with TMTs. Among others, the studies conducted by Judge and Dobbins (1993), Forbes and Milliken (1999) and Rindova (1999) are included in this category. Finally, the fourth category consists of papers in which the nature of board strategic involvement is not clearly stated and defined. Most papers published in the 1970s and 80's fit into this category, as the concept of board strategic involvement was in general marginally defined in the early years.

EMPIRICAL RESULTS

Growing Attention to Research on Boards and Strategy

In recent decades, scholars and practitioners have debated the relationship between the boards of directors and strategy. Figure 1 illustrates the historical development of the number of published articles explicitly referring to boards and strategy in the management literature. As depicted, the

first paper was published in 1972 and in the following decades the number of published articles steadily increased. Studies on boards and strategy were published irregularly during the early years, prior to the publication of Zahra and Pearce's study in 1989. Since then, the marked increase in the average number of articles on the topic has reflected the growing attention of scholars in the field of strategy and governance (from 1.3 in the period 1972-1989 to 9.6 in the period 2001-2007). Also in relative terms the space devoted to studies on boards of directors and strategy has increased: from 0.1 articles per management journal per year in the period 1972-1989 to 0.4 articles in the period 2001-2007. Finally, it is noteworthy that in the period 1972-1989 most papers were published in general, applied practice-oriented journals such as the *Long Range Planning* (8), *California Management Review* (6) and *Harvard Business Review* (5). Since 1990 two specialized journals in strategy and corporate governance, *Corporate Governance: An International Review* (24) and *Strategic Management Journal* (14), have contributed the most (see figure 2).

Insert Figures 1 and 2

Descriptives and Interactions of Topics, Theories, Settings and Data Sources

Figure 3 provides an overview of the characteristics of the articles that have contributed to the growing attention in boards of directors and strategy. The papers are overwhelmingly empirical (n=114; 76%). Most empirical studies have been conducted in the USA (n=72; 62%) or in multiple settings including the USA (n=5; 4%). With regard to the main research topic, most articles have contributed to the debate on the desirability of board strategic involvement (n=41; 27%), although the overall sample is distributed evenly across all categories. In terms of use of theories, agency theory is the prevailing lens (n= 63; 42%): it has been used as the sole

theoretical lens (n=27; 18%) and in combination with other theoretical lenses (n=36; 24%). The sources of data are quite diverse, although the use of archival data (n=45; 40%) and of multiple sources (n=22; 19%) is most common. Finally, the largest group of studies defines board strategic involvement in terms of boards' contributions to specific strategic outcomes (n=52; 35%), while the smallest group defines it as boards' participation to strategic decision-making (n=22; 15%).

Insert Figure 3

Furthermore, figure 3 illustrates how topics, theories, settings and data sources interact. Most notable are the key differences between empirical studies that have been conducted in a US context and those conducted in a non-US context. In the US context scholars have published most on the determinants (n=26; 36%) and consequences of board strategic involvement (n=21; 29%). Furthermore, these studies refer to agency theory in most instances (n=38; 53%) and mainly use archival data (n=39; 54%). Finally, board strategic involvement has generally been defined as the contribution of boards to specific strategic outcomes, such as innovation, strategic change and mergers and acquisitions (n=37; 51%). In contrast, studies conducted in a non-US context most often examine the participation in strategic decision-making by boards (n=14; 38%). Furthermore, these studies often refer to alternative theoretical lenses (n=25; 68%) and use qualitative methods, such as interviews (n=10; 27%) and direct observations (n=5; 14%) more often. Finally, these studies differ in their definition of board strategic involvement, i.e., all categories are evenly represented. Theoretical papers differ from both types of empirical papers. These papers generally address the practice and question the desirability of boards' strategic involvement (n=19; 53%), show a limited reference to agency theory (n=13; 36%) and the definition of board strategic involvement is in most instances rather unspecified (n=17; 47%). We tested the above-mentioned interactions for statistical significance. Several cross tabulations reveal that the relationships between the main research topic, use of theories, research setting and the definition of board strategic involvement are indeed statistically significant at the 0.05-level.

Three Distinct Research Periods

In order to observe an evolutionary pattern in previous research, we identified three periods and assigned each article to one of them according to the year of publication. Even though the three windows are not homogeneous in terms of time-length, we clustered them in accordance with two criteria. *First*, we observed changes in the slope of the curve with cumulative number of articles published over time (see figure 1). We considered a cut-off for a 'new period' if (i) there was a sharp increase in the number of publications in a given year and if (ii) this number was significantly higher than the average during the previous years. Second, we identified a 'new period' if relevant and highly influential articles (or groups of articles) came out during a given year or the year before. Major changes in a field of study often occur thanks to breakthrough and innovative articles that suggest new theoretical approaches and/or methods and set a new agenda for future research (Kuhn, 1962). We checked for robustness by examining whether our findings would change if we slightly changed our cut-off points. Although our results became less significant, overall the witnessed developments proved to be robust.

Our first observation window covers the period from the first publication (1972) until Zahra and Pearce's literature review in 1989. In this period, the interest in studies on boards and strategy seems to be infrequent and concentrated around the years 1972, 1979 and 1986. In 1990, one year after Zahra and Pearce's literature review, six papers on the topic were published, i.e. Baysinger and Hoskisson (1990), Boyd (1990), Hoskisson and Turk (1990), Kosnik (1990), Lang

and Lockhart (1990) and Zahra (1990). These papers provided input to a new strand of research and most of the literature in the following years sought to analyze the relationship between board composition and strategic outcomes. Our second observation window ends in 2000. In 1999 and 2000 great interest around boards and strategy arouse, as 17 articles were published in the two years. During this period an alternate stream of literature came out with a new perspective on boards' roles and behavior (Dalton, Daily, Ellstrand and Johnson, 1998; Forbes and Milliken, 1999; Gulati and Westphal, 1999; McNulty and Pettigrew, 1999; Rindova, 1999; Hillman, Canella and Paetzold, 2000). These researchers had a significant impact on the field and fueled the debate around cognitive and behavioral approaches. In the following sections, we will discuss the distinctive characteristics of articles published during each period (see figures 4 and 5).

Insert Figures 4 and 5

Period 1 (1972-1989): The emerging debate about boards' strategic involvement

The early literature explicitly referring to boards and strategy dates back to the beginning of the 1970s. At that time, the debate was mostly driven by the practical needs that the US business community was facing. Corporate failures and governance scandals together with the increasing requirements for higher accountability fueled studies on boards and governance issues (Vance, 1979; Lorsch, 1986). At the same time, strategy started to become established as research field (Volberda and Elfring, 2001), fueled by major changes in the business environment of most Western countries (i.e. the increase in Japanese competition and the oil crisis) (Pettigrew, Thomas and Whittington, 2002). During this first period, research on boards and strategy was characterized by a debate on the desirability of active board involvement, also in the realm of

strategy. This discussion followed an ongoing US debate around a perceived passivity of boards of directors at that time (Mace, 1971; Herman, 1981; Stiles and Taylor, 2002). The ongoing debate has been hosted mainly by three general, applied practice-oriented journals (i.e. *Long Range Planning, California Management Review* and *Harvard Business Review*) that covered almost 80% of the studies in this period (see figure 2). Regardless of the type of articles, both conceptual and empirical articles have generally sought to initiate a discussion around the desirability of boards' involvement in strategy (67%).

Overall, two strands of research with opposite views on the topic can be distinguished during this period. On the one hand, boards were considered one of the main actors in strategic decision-making processes, though they are not expected to formulate strategy. For instance, Andrews (1980; 1981a) emphasized that boards are in a perfect position to search for alternative corporate strategies. Furthermore, Felton (1979) argued that boards should confront management in case where results deviate from expectations, also in the realm of strategy. To support adequate fulfillment of the strategy role, Wommack (1979 and Harrison (1987) suggest that boards should create an internal board committee dedicated to this issue. On the other hand, another group of scholars strongly argued that boards should not be actively involved in strategy. For instance, according to Heller and Milton (1972) strategic issues are a difficult subject for directors to get into, as they are often not involved in the company on a daily basis. Moreover, Mace (1976) argues that outside directors are mostly hired through cooptation or hold board positions elsewhere; this practice may limit their commitment and involvement in strategic issues. Finally Rosenstein (1987) describes several hurdles that directors may face when they try to get involved in strategy.

In sum, the key characteristics of research during this period are (i) the lack of one prevailing theory, (ii) the predominance of articles discussing the desirability of board strategic involvement (67%) and (iii) a broadly defined concept of board strategic involvement in most instances (79%). Therefore, it comes as no surprise that Zahra and Pearce, at the end of this period, assert that "overall, empirical research on the boards' strategic role is in its infancy stage" (1989:304).

Period 2 (1990-2000): The heyday of 'input-output approaches'

Two breakthrough articles influenced the emerging literature on boards of directors and strategy at the beginning of the 1990s. Zahra and Pearce's (1989) literature review highlighted the importance of understanding the relationship between board characteristics and structure, and strategy. Additionally, Baysinger and Hoskisson (1990) discussed the prominence of board-TMT dynamics and its implications for strategy. Furthermore, they emphasized also that 'evaluating the strategic implications of boards of directors requires empirical analysis' (1990:73). Following these suggestions, multiple studies were published during the next decade. Generally, they relate board characteristics and structure (i.e. board size, CEO-duality, board diversity, outsider ratio, tenure and directors' equity stakes) to strategic outcomes, such as acquisitions (Haunschild, 1993; Hayward and Hambrick, 1997; Haunschild and Beckman, 1998) strategic change (Goodstein and Boeker, 1992; Goodstein et al., 1994; Bergh, 1995), corporate restructuring (Sheppard, 1994; Daily, 1995), entrepreneurship (Zahra, 1996), internationalization (Sanders and Carpenter, 1998) and R&D expenditures (Baysinger et al., 1991). Generally, these studies provide mixed evidence of relationships between board characteristics and strategy (Daily et al., 2003; Deutsch, 2005).

Illustrative of this line of inquiry is that the majority of studies (i) refers to agency theory (54%), (ii) uses US samples (86%), (iii) analyzes archival data (49%) and (iv) was published in the journals *Academy of Management Journal, Administrative Science Quarterly* and *Strategic*

Management Journal (37.3%) (see figure 2). Interestingly, two different lines of inquiry started to develop as well. One group examined the antecedents of board strategic involvement (Zahra, 1990; Zahra and Pearce, 1990; Judge and Zeithaml, 1992; Fried *et al.*, 1998). A second group investigated the effects of the relationship between board and TMTs on strategic decision-making (Bradshaw-Camball and Murray, 1991; Judge and Dobbins, 1993; Fried and Hisrich, 1995; Westphal, 1998; Gulati and Westphal, 1999). At the end of the 1990s, contributions by Forbes and Milliken (1999), McNulty and Pettigrew (1999) and Rindova (1999) opened up the debate on boards' contribution to strategy processes and led to a new stream of research in this area.

Period 3 (2001-2007): Towards more pluralism in the board-strategy debate

As witnessed by the sharp increase in the average number of papers published each year (9.6), research on boards and strategy gained even more momentum during this period. These years are characterized by the co-existence of different research approaches. Most studies still focus on the determinants and consequences of board strategic involvement (47%), use archival data (36%) in a US setting (49%) and extensively refer to agency theory (42%). At the same time, studies with different features emerged in this period. *First*, empirical studies drawing on non-US data become more frequent. For example, the corporate governance contexts of Australia (Bonn and Fisher, 2005), Belgium (Van den Heuvel, Van Gils and Voordeckers, 2005), Italy (Zona and Zattoni, 2007), Japan (Yoshikawa and Phan, 2005), New Zealand (Ingley and Van der Walt, 2005), Norway (Huse, Minichilli and Shoning, 2005) and the United Kingdom (Long, Dulewicz and Gay, 2005; Yawson, 2006) were examined. *Second*, new theoretical standpoints have been used to interpret phenomena (Hendry and Kiel, 2004; Keenan, 2004) and most of the published articles do not refer to agency theory, but to alternate theoretical lenses (58%).

Building upon earlier contributions by Forbes and Milliken (1999), McNulty and Pettigrew (1999) and Rindova (1999), research on boards and strategy is also characterized by the emergence of behavioral and cognitive approaches also. Studies in this tradition aim to understand how boards participate in strategic decision-making as an active part of it (Stiles and Taylor, 1996). Based on this approach, Jensen and Zajac (2004) and Useem and Zelleke (2006) highlight that boards participate in these processes through continuously interacting with managers and/or other stakeholders. Moreover, Rindova (1999) and Fiegener (2005) argue that board of directors' work is not limited to ratification and monitoring only (cf. Fama and Jensen, 1983): boards of directors should rather be involved in all phases. Furthermore, Mueller, Sillince, Harvey and Howorth (2003) underline the conflicting requirements boards of directors face in fulfilling the monitoring role (independence) and the strategy role (involvement). Scholars have also started to investigate the joint impact of board dynamics, working style and structure on strategic issues (Golden and Zajac, 2001; Huse, 2005), as well as how the expertise, abilities and network ties of board members affect their ability and motivation to contribute to strategy formulation (Carpenter and Westphal, 2001; Roberts, 2002; Hillman, 2005) and the board of directors' overall capacity to impact on CEOs and TMTs (Westphal and Frederickson, 2001; Arthaud-Day, Certo, Dalton and Dalton, 2006; Grossman and Cannella, 2006).

DISCUSSION

Over the last four decades, the interest in research on the relationship between boards of directors and strategy has grown significantly (see figure 1). Scholars and practitioners have extensively discussed the potential contribution of boards as well as the (un)desirability of active boards in this domain. Witnessing pluralism and controversy in the literature on boards and strategy in terms of theoretical underpinnings and empirical findings, our review provides insights on previous research contributions illustrating the way in which the literature evolved, highlighting implications for both scholars and practitioners, and suggesting avenues for future research. In particular, our results highlight two important trends in literature on boards and strategy.

First, our findings illustrate that research on boards of directors and strategy developed from normative and structural approaches to behavioral and cognitive approaches (see figures 3 and 4). While early studies mainly discussed the desirability of board strategic involvement (period 1) and used 'input-output approaches' (period 2), a more recent strand of research posits boards as decision-making groups whose internal processes and external context should be better understood (e.g. Forbes and Milliken, 1999; Huse, 2005; McNulty and Pettigrew, 1999; Ravasi and Zattoni, 2006). This evolution is in line with the general shift in strategic management from studying 'strategy as content' to understanding 'strategy as process and context' (cf. Pettigrew *et al.*, 2002).

Second, our results highlight that research questions, theories, settings and sources of data interact and influence our insights about the relationship between boards and strategy (see table 3). On the one hand, most empirical studies analyze US companies, refer to agency theory, examine the role of boards with regard to specific outcomes, and use archival data as main source of data. On the other hand, a relatively limited number of studies analyze non-US companies, define board strategic involvement as boards' participation in decision-making, and use qualitative methods (cf. Deutsch, 2005).

Theoretical Implications

Our study has several scholarly implications and highlights avenues for future research. *First*, our results reveal the need to understand the role of context at multiple levels as (i) most of the contemporary wisdom originates from US-samples of large public companies and (ii)

comparative corporate governance studies are sparse (see figure 3). As a result, the impact of the national setting (e.g. the legal system, culture and economic conditions) and firm characteristics (e.g. the ownership structure, board structure, firm performance and life-cycle) on the relationship between boards and strategy is not fully understood (Aguilera and Cuervo-Cazurro, 2004; Ravasi and Zattoni, 2006; Hambrick, Van Werder and Zajac, 2008). For example, as the majority of studies referring to agency theory used US samples and 'input-outcome approaches', the application of agency theory to strategic decision-making processes in different national contexts may lead to the discovery of new theoretical and empirical issues (Peck and Ruigrok, 2000). Furthermore, the growing number of studies that define board strategic involvement as participation in strategic decision-making may stimulate more dynamic theories and promote research designs explicitly investigating the changing contributions of boards of directors over time (cf. Ravasi and Zattoni, 2006). In sum, multi-level approaches and international comparative corporate governance studies may contribute to the development of a better understanding of interactions between macro, meso and micro dynamics and how these forces jointly shape the relationship between boards of directors and strategy (Volberda et al., 2001; Volberda and Lewin, 2003; Hambrick et al., 2008).

Second, our results highlight the number and variety of theoretical perspectives and inconclusive empirical findings. More recently, scholars emphasized the need to go beyond structuralism and to examine board processes, board behavior and directors' cognition. This movement encourages scholars to investigate what boards and their members actually do, think and/or perceive (Pettigrew, 1992; Lawrence, 1997; Forbes and Milliken, 1999). Although our literature review shows an increasing interest to these topics, the number of studies in this area is still rather limited. Given the importance of understanding politics and bargaining processes between key actors (cf. Bradshaw-Cambell and Murray, 1991; Ravasi and Zattoni, 2006; Parker,

2007) and the impact of overlapping and conflicting preferences within and between groups of actors (Hambrick *et al.*, 2008), a considerable amount of research remains to be done in this area in order to clarify and improve our understanding of the board of directors' contribution to strategy-making. For example, future studies should investigate the interaction between large shareholders, board members and top management teams inside and outside board meetings (Useem and Zelleke, 2006). To reach this purpose, governance scholars are encouraged to open the black box of board research developing longitudinal studies aimed at exploring processes over an extensive time period and collecting primary data using interviews, surveys and direct observation techniques (Pettigrew *et al.*, 2002; Huse, 2005).

Practical Implications

Our empirical findings have also implications for practitioners. *First*, the increasing attention in boards' contribution to strategy echoes a movement towards more board strategic involvement. Interestingly, this development seems to be conflicting with principles from agency theory that consider decision control as the primary role of boards of directors (cf. Fama and Jensen, 1983). Based on principles from agency theory, governance recommendations and best practices have generally encouraged independence and formality between independent directors and executive directors (Huse, 1994; Hamel, Van Wijk and Van Rooij, 1998; Sundaramurthy and Lewis, 2003). This view has been reinforced after each wave of corporate governance scandals, as reform initiatives (such as SOX, EU directives and national corporate governance codes) have generally emphasized board control and board independence as key mechanisms to ensure corporate accountability (Daily *et al.*, 2003: Enrione *et al.*, 2006). However, clearly separating decision control from decision manage-ment might pose a serious threat on a board's ability to perform its strategic role (Bezemer et al., 2007). Scholars have highlighted that the maintenance of openness,

pro-activeness and a focus on joint value creation are important antecedents of the board's contribution to the strategic decision-making process (Zona and Zattoni, 2007). Moreover, an effective contribution of board members to strategy requires both (i) an adequate composition and structure, and (ii) well-organized internal processes (Minichilli, Zattoni and Zona, 2009). Furthermore, the introduction of governance practices, such as board induction programs and annual board reviews, may contribute to an increased awareness of the expected contribution of boards to strategy (Huse, 2005). In sum, an increase in the directors' awareness of their strategic function should be associated to a higher consideration from regulators: board composition and processes should be designed to allow all members of the board to contribute to strategic decision-making (Roberts, McNulty and Stiles, 2005).

Second, practitioners should be aware that most of the contemporary wisdom originates from a limited set of empirical contexts. As there may be important differences across contexts in terms of role expectations, board structures and actors, practitioners should be careful in applying practices in their own national context (Bamberg, 2008; Hambrick et al., 2008). The witnessed theoretical and empirical pluralism in the board-strategy literature is supportive in this respect.

Limitations

Our literature review has several limitations. First, in this review only 81 journals in the management domain were included. There could be further research potential in investigating to what extent journals in other research fields (e.g. most notably finance, accounting and law) have contributed to research on boards and strategy. Second, in this study we solely focused on published articles which explicitly mentioned the search terms *director* or *board* together with *strateg** in their title, abstract and/or key words. By choosing this exploratory approach, one risks missing important papers that do not claim to be in this domain explicitly and/or refer to strategic

content directly. Future studies could examine to what extent our findings hold when a broader definition is employed (i.e. *governance* and *strateg**). Third, as a result of the above choices, leading books on the topic were not included in our statistical analysis (e.g. Demb and Neubauer, 1992; Conger et al., 2001; Stiles and Taylor, 2002; Charan, 2005; Leblanc and Gillies, 2005; Huse, 2007). Future studies could assess how other types of publication (e.g. academic books and consultancy reports) have contributed to the development of the board-strategy field. However, we believe that also this limitation should not be overemphasized as our analysis includes both academic and practitioners journal.

CONCLUSION

Our review of the literature on boards and strategy revealed that research on the contribution of boards of directors to strategy has rapidly developed and expanded in the last four decades. Several changes are observable across different periods in terms of the questions addressed and the methods applied. The growing attention witnessed in this review can be ascribed both to new challenges companies face in multiple contexts, and to the theoretical advancements in the fields of strategic management and corporate governance. Nevertheless, the proliferation of studies and the increasing call for more contributions have not provided a clear answer to the question of how boards of directors contribute to strategy. Despite all the endeavors undertaken in the past, we highlight that the debate on boards and strategy still provides a very promising and challenging research agenda. Corporate governance scholars are encouraged to open the black box of board research in order to develop a better understanding of the interactions between macro, meso and micro dynamics, and how these forces jointly shape the relationship between boards of directors and strategy.

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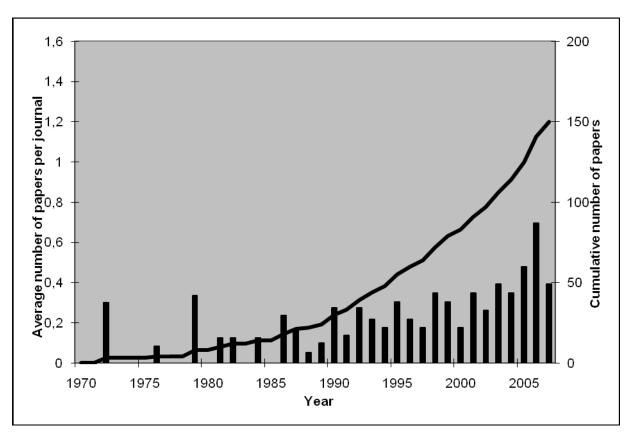


Figure 1: Historical Development Research on Boards and Strategy

	1972-1989* 1990-2000 2001-2007 ove			overall
Corporate Governance: An International Review	N/A	4	20	24
Strategic Management Journal	2	7	7	16
Long Range Planning	8	6	2	16
Academy of Management Journal	1	8	5	14
Harvard Business Review	5	6	2	13
Journal of Management	1	6	4	11
Administrative Science Quarterly	0	7	3	10
Journal of Management Studies	0	4	6	10
California Management Review	6	1	1	8
Academy of Management Executive	0	2	4	6
Academy of Management Review	0	3	0	3
Organizational Dynamics	0	0	3	3
Organization Studies	0	1	1	2
Organization Science	N/A	2	0	2
Journal of Small Business Management	0	0	2	2
British Journal of Management	N/A	1	1	2
International Journal of Technology Management	0	1	1	2
Management Science	0	0	1	1
Journal of International Business	1	0	0	1
Decision Science	0	1	0	1
Tourism Management	0	0	1	1
Journal of Organizational Change Management	0	0	1	1
Service Industries Journal	0	0	1	1

Figure 2: Overview of Journals with Included Publications per Time Period

*N/A: Journal was founded after this particular time period

	Empirical Papers (n=114; 76%)				Theoretical	Overall (n=150)
	US context (n=72; 62%)	Multiple contexts (including US) (n=5; 4%)	Non-US context (n=37; 32%)	Total	Papers (n=36; 24%)	Overall (II=150)
Main Research Topic*:						
Determinants of board strategic involvement	26 (36%)	0 (0%)	8 (22%)	34 (30%)	2 (6%)	36 (24%)
Consequences of board strategic involvement	21 (29%)	1 (20%)	10 (27%)	32 (28%)	4 (11%)	36 (24%)
Boards' participation in strategic decision making	11 (15%)	1 (20%)	14 (38%)	26 (23%)	11 (31%)	37 (25%)
Desirability of strategic involvement (normative)	14 (19%)	3 (60%)	5 (14%)	22 (19%)	19 (53%)	41 (27%)
Total	72 (100%)	5 (100%)	37 (100%)	114 (100%)	36 (100%)	150 (100%)
Use of Theories*:						
Articles referring to agency theory	18 (25%)	0 (0%)	3 (8%)	21 (18%)	6 (17%)	27 (18%)
Articles referring to multiple lenses (including agency)	20 (28%)	0 (0%)	9 (24%)	29 (25%)	7 (19%)	36 (24%)
Articles solely referring to other theories or no theory	34 (47%)	5 (100%)	25 (68%)	64 (56%)	23 (64%)	87 (58%)
Total	72 (100%)	5 (100%)	37 (100%)	114 (100%)	36 (100%)	150(100%)
Source of Data*:						
Interviews	3 (4%)	2 (40%)	10 (27%)	15 (13%)	-	15 (13%)
Anecdotal Evidence	10 (14%)	0 (0%)	4 (11%)	14 (12%)	-	14 (12%)
Archival Data	39 (54%)	0 (0%)	6 (16%)	45 (40%)	-	45 (40%)
Survey	5 (7%)	1 (10%)	7 (19%)	13 (11%)	-	13 (11%)
Direct Observations	0 (0%)	0 (0%)	5 (14%)	5 (4%)	-	5 (4%)
Multiple Sources	15 (21%)	2 (40%)	5 (14%)	22 (19%)	-	22 (19%)
Total	72 (100%)	5 (100%)	37 (100%)	114 (100%)	-	114 (100%)
Definition of Board Strategic Involvement*:						
Unspecified	21 (29%)	1(20%)	9 (24%)	31 (27%)	17 (47%)	48 (32%)
Boards define strategy at a general level	7 (10%)	3 (60%)	10 (27%)	20 (18%)	8 (22%)	28 (19%)
Boards are responsible for specific outcomes	37 (51%)	1 (20%)	9 (24%)	47 (41%)	5 (14%)	52 (35%)
Boards participate to decision-making process	7 (10%)	0 (0%)	9 (24%)	16 (14%)	6 (17%)	22 (15%)
Total	72 (100%)	5 (100%)	37 (100%)	114 (100%)	36 (100%)	150 (100%)

Figure 3: Descriptives and Interactions of Topics, Theories, Settings and Data Sources**

* Differences between different research settings are statistically significant at the 0.05-level (two-tailed).

** Statistical tests show that the relationships between the main research topic, use of theories, definition of board strategic involvement and research setting are all significant at the 0.05-level (two-tailed)

	1972-1989	1990-2000	2001-2007	overall
Summary:				
Number of articles	24	59	67	150
Average number of articles per year	1.33	5.36	9.57	4.16
Average number of articles per journal per year	0.10	0.23	0.42	0.20
Type of Article [†] :				
Conceptual	10 (42%)	14 (24%)	12 (18%)	36 (24%)
Empirical	14 (58%)	45 (76%)	55 (82%)	114 (76%)
Total	24 (100%)	59 (100%)	67(100%)	150 (100%)
Main Research Topic*:				
Determinants of board strategic involvement	3 (13%)	16 (27%)	17 (25%)	36 (24%)
Consequences of board strategic involvement	3 (13%)	18 (31%)	15 (22%)	36 (24%)
Boards' participation in strategic decision making	2 (8%)	12 (20%)	23 (34%)	37 (25%)
Desirability of strategic involvement (normative)	16 (67%)	13 (22%)	12 (18%)	41 (27%)
Total	24 (100%)	59 (100%)	67 (100%)	150 (100%)
Use of Theories*:				
Articles referring to agency theory	2 (8%)	13 (22%)	12 (18%)	27 (18%)
Articles referring to multiple lenses (including agency)	1 (4%)	19 (32%)	16 (24%)	36 (24%)
Articles solely referring to other theories or no theory	21 (88%)	27 (46%)	39 (58%)	87 (58%)
Total	24 (100%)	59 (100%)	67 (100%)	150 (100%)
Research Setting*:				
Articles based on US data only	7 (50%)	38 (84%)	27 (49%)	72 (62%)
Articles based on multiple settings (including the US)	4 (29%)	1 (2%)	0 (0%)	5 (4%)
Articles based on non-US data	3 (21%)	6 (13%)	28 (51%)	37 (32%)
Total	14 (100%)	45 (100%)	55 (100%)	114 (100%)
Source of Data:				
Interviews	1 (7%)	5 (11%)	9 (16%)	15 (13%)
Anecdotal Evidence	3 (21%)	4 (9%)	7 (13%)	14 (12%)
Archival Data	3 (21%)	22 (49%)	20 (36%)	45 (40%)
Survey	2 (14%)	3 (7%)	8 (15%)	13 (11%)
Direct Observations	0 (0%)	2 (4%)	3 (6%)	5 (4%)
Multiple Sources	5 (36%)	9 (20%)	8 (15%)	22 (19%)
Total	14 (100%)	45 (100%)	55 (100%)	114 (100%)
Definition of Board Strategic Involvement*:				
Unspecified	11 (46%)	20 (34%)	17 (25%)	48 (32%)
Boards define strategy at a general level	8 (33%)	8 (14%)	12 (18%)	28 (19%)
Boards are responsible for specific outcomes	3 (13%)	26 (44%)	23 (34%)	52 (35%)
Boards participate to decision-making process	2 (8%)	5 (8%)	15 (22%)	22 (15%)
Total	24 (100%)	59 (100%)	67 (100%)	150 (100%)

Figure 4: Evolution of the Literature on Boards and Strategy

* Differences between the three time periods are statistically significant at the 0.05-level (two-tailed).

[†] Differences between the three time periods are statistically significant at the 0.10-level (two-tailed).

Figure 5: The Evolution of Research on Board Strategic Involvement*

	Time-Period 1 (1972-1989)	Time-Period 2 (1990-2000)	Time-Period 3 (2001-2007)	
Type of Paper	Both conceptual and empirical papers give initial input to the field. Early articles are published in three practitioner-oriented journals (i.e. HBR,LRP,CMR).	Empirical articles gain considerable attention in the literature and become by far the largest category.	Empirical articles are still gaining importance, while the relative share of conceptual papers has halved compared to the period 1972-1989.	
Main Research Topic	Researchers endeavor to define to what extent boards should (not) be actively involved, also in the realm of strategy.	This period is characterized by "input- output" studies which aimed at exploring determinants and consequences of board strategic involvement.	The focus of researchers switches to boards' participation to strategic decision-making, while "input-output" studies remain the largest group.	
Use of Theories	Most studies refer to other theories than agency theory (for example: resource dependency) or do not use a theory at all (as multiple studies are practice driven).	Agency theory becomes the most commonly used framework for exploring boards' contribution to strategy.	This period is characterized by a multi- theoretical approach to the board-strategy debate. Agency theory is still the main framework but other theories slowly gain importance.	
Research Setting	Empirical articles most often use US samples or multi-country samples (including the US as research setting)	US scholars are taking the lead in the field. US samples represent almost the totality of empirical studies.	European and Asian samples gain importance in the debate. They equal the number of published articles using US samples.	
Sources of Data	Sources of information are quite varied. Anecdotes, archival data and mixed methods are the most widely used.	This period is mainly characterized by the use of archival data and mixed methods.	Sources of information are quite varied. Archival data, surveys and mixed methods are the most widely used.	
Definition of Board Strategic Involvement	The definition of strategic involvement is ill-defined. The expected contributions of board members refers to strategy in general or remain rather undefined.	Researchers start to specify board strategic involvement and mainly focus on specific strategic outcomes.	A growing stream of research relates boards to strategic decision making, while studies referring to specific strategic outcomes remain dominant	

* The descriptives in this figure are based upon the presented numbers in figures 2 and 4.

Authors' Bios

Amedeo Pugliese is Assistant Professor in Accounting at the Department of Business Economics, University of Naples "Federico II", where he received his PhD in Accounting. His research is currently focused in the area of Corporate Governance and Accounting, with a closer look at how boards of directors influence decision-making processes and financial reporting in large companies.

Pieter-Jan Bezemer is a Ph.D. student in strategic management at the Rotterdam School of Management, Erasmus University. His research interests encompass several corporate governance issues within listed corporations, with a particular focus on the dynamic interplay between executive and non-executive directors and board roles.

Alessandro Zattoni: is Professor of Management at Parthenope University of Naples and Professor of Strategic Management and Corporate Governance at SDA Bocconi School of Management. His main interest of research is corporate governance, with a focus on board of directors, codes of good governance, pyramidal groups, and stock incentive plans.

Morten Huse: is Professor of Management and Organization at BI Norwegian School of Management. He has published a considerable number of articles and books about boards of directors from a strategic and entrepreneurial management perspective. His recent research focus is actual board behavior, including board dynamics, women directors and boards in SMEs and family firms. His research is characterized by venturesome research designs to explore boards of directors. Morten Huse has affiliations with universities in several countries, including Tor Vergata University in Rome. He is a much used speaker for academic as well as practitioner audiences.

Frans A.J. Van den Bosch is Professor of Management of Organization – Environment Interfaces at the Rotterdam School of Management, Erasmus University Rotterdam in the Netherlands. He received his PhD from Leyden University. His current research interests include strategic renewal and innovation, corporate governance, managerial and knowledge-based theories of the firm and corporate responsiveness. He is director of the Erasmus Strategic Renewal Centre, Program Director of the Erasmus Research Institute of Management and has chaired several supervisory boards in the Netherlands. He has published over 145 articles in scientific journals, including chapters in books.

Henk W. Volberda is Professor of Strategic Management and Business Policy, Chair of the Department of Strategic Management & Business Environment, and Vice-Dean of the RSM Erasmus University. He is director of the Erasmus Strategic Renewal Centre, Program Director of the Erasmus Research Institute of Management, and board member of the Dutch Institute on Social Innovation. He obtained his PhD cum laude from the University of Groningen. His research focuses on strategic renewal, innovation, strategic flexibility, new organizational forms and knowledge flows and absorptive capacity. He is senior-editor of Long Range Planning and Journal of International Business Studies, and member of the editorial board of Journal of Management Studies, Organization Science, and Organization Studies.

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