

## National institutional systems as antecedents of female board representation: an empirical study

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**National institutional systems as antecedents of female board representation: An empirical study**

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## National institutional systems as antecedents of female board representation: An empirical study

### ABSTRACT

**Manuscript Type:** Empirical

**Research Question/Issue:** How are national institutional systems related to the proportion of women found on corporate boards of directors of companies listed in particular countries? Which particular types of national institutions play the most important role? We explore cross-country variation in the pattern of female representation on corporate boards and evaluate the extent to which it is associated with the nature of national institutional systems as captured in five frameworks each of which emphasises the importance of a distinct type of national institutions. Our analysis includes 38 countries and covers the years 2001-2007

**Research Findings/Insights:** Our findings show that as much as half of the variation in the presence of women on corporate boards across countries is attributable to national institutional systems and that culturally and legally-oriented institutional systems appear to play the most significant role in shaping board diversity.

**Theoretical/Academic Implications:** Our study suggests that country-level institutions, previously neglected in studies of board diversity, play an important role in shaping the prevalence of women on corporate boards and that these need to be more fully incorporated in future research on board diversity.

**Practitioner/Policy Implications:** The importance of national institutional systems for board diversity suggests that policy levers of a regulatory nature and national cultural characteristics are important elements in driving corporate board diversity and offer distinct opportunities for tailoring a mix of corporate governance interventions that suit the particular institutional nature of a given country.

**Key words:** Corporate Governance, Corporate Board diversity, Board Demography, Institutional Theory

# National institutional systems as antecedents of female board representation: An empirical study

## INTRODUCTION

The role played by national business environments for a range of corporate behaviours has long been of interest to Corporate Governance scholarship (Jackson & Deeg, 2008; Parboteeah, Hoegl & Cullen, 2008). National institutional factors have been identified as shaping a wide variety of business behaviours including entry strategies (Brouthers, 2002), diversification (Lee, Peng & Lee, 2008), innovation (Lundvall, Johnson, Anderson & Dalum, 2002), and corporate governance practices (Denis & McConnell, 2003). Although comparative, cross-national, research has addressed a wide range of phenomena, it has not, with some notable exceptions (e.g. Leksell & Lindgren, 1982; Terjesen & Singh, 2008), contributed significantly to research on corporate boards of directors. While a substantial and growing body of research has focused on corporate governance systems and their development internationally (Aguilera, 2005; Denis & McConnell, 2003; Khanna, Kogan & Palepu, 2006), such research has tended to focus on systemic issues such as evaluating the extent of convergence/divergence in practice internationally, rather than on questions concerned with boards of directors or their composition (Aguilera, 2005; Denis & McConnell, 2003; Fligstein & Freeland, 1995).

In recognition of their strategic importance, research concerned with boards of directors has proliferated in recent years. Within this, a considerable stream of research concerning the demographic aspects of boards of directors has emerged with a particular emphasis on the gender balance of boards of directors (Hillman, Cannella & Harris, 2002; Hillman, Shropshire & Cannella, 2007; Singh, 2007; Terjesen, Sealy & Singh, 2009). In this article, we explore cross-country variation in the pattern of female representation on corporate boards and examine the potential for it to be associated with national institutional

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3 systems as captured in five distinct frameworks. Research on the institutional features of  
4  
5 countries has shown that particular institutional characteristics, such as the nature of welfare,  
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7 education and financial systems, and legal, regulatory, and political processes, tend to exhibit  
8  
9 complementarities such that countries typically exhibit a set, or “bundle”, of mutually  
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11 reinforcing institutional characteristics (Jackson & Deeg, 2008). Moreover, research has  
12  
13 suggested that groups of countries exist that each share a distinctive bundle of institutional  
14  
15 features (Aguilera & Jackson, 2003). Together, these distinctive bundles of institutional  
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17 features and those countries that are associated with them constitute “institutional systems”  
18  
19 and prior research has identified a variety of these systems that stem from the particular  
20  
21 disciplinary orientation of the institutional analysis. For example, economically-oriented  
22  
23 institutional analysis has identified distinct varieties of capitalism (Hall & Soskice, 2001)  
24  
25 and national business systems (Whitley, 1992; 1999), while political/legal institutional  
26  
27 research has identified distinct legal systems (La Porta, Lopez-de-Silanes, Shleifer & Vishny  
28  
29 1998) and systems of corporate governance (Weimer & Pape, 1999), and sociological  
30  
31 research has identified systems of national culture (Gupta, Hanges & Dorfman, 2002). Our  
32  
33 analysis examines both the overall predictive power of particular institutional systems in  
34  
35 respect of the variation across countries in the prevalence of women on corporate boards, and  
36  
37 whether support is provided for hypothesised differences between the clusters of countries  
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39 within each national institutional system and the proportion of women on corporate boards.  
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49 Through this analysis, we make two significant contributions. First, we extend and  
50  
51 complement earlier analyses of the factors associated with greater prevalence of women on  
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53 corporate boards of directors to encompass macro-level influences and processes. Given the  
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55 presence of a significant debate concerning the mix of policies and practices necessary to  
56  
57 promote women’s participation on corporate boards, our analysis is able to shed light on the  
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59 relevance of national institutional systems to this debate. Second, we apply the analysis of the  
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3 influences of national institutional systems to encompass the domain of board demography.  
4  
5 In so doing, we contribute to the development of the emerging literature that addresses a  
6  
7 comparative analysis of country institutions for business behaviours and outcomes and  
8  
9 contribute to the project of “gendering” comparative institutional analysis (Estevez-Abe,  
10  
11 2005, 2006; Mandel & Shalev, 2009).  
12  
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14  
15 The next section reviews existing literature relating to women on corporate boards  
16  
17 (WOCBs). We then outline alternative conceptions of national institutional systems and  
18  
19 develop hypotheses regarding how these influence the prevalence of WOCBs. We then  
20  
21 discuss our empirical methods and report our findings. Subsequently, we discuss the  
22  
23 importance of these, for both the literatures on board demography and comparative  
24  
25 institutional analysis. A final section concludes.  
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## 32 **PRIOR RESEARCH ON WOCBs**

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34 A large body of research has focused on WOCBs. In the most recent comprehensive  
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36 review of this research, Terjesen et al. (2009) identify over 400 published references on the  
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38 topic, including 180 articles in academic journals and books. Terjesen et al. (2009) classify  
39  
40 extant research according to its level of analysis: micro (relating to individual directors),  
41  
42 meso (relating to boards or firms/organisations), and macro (relating to the industry/wider  
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44 environment within which boards and organisations are situated). Within this, the vast  
45  
46 majority of existing scholarship focuses on analysis at the micro or meso levels, with  
47  
48 relatively little research addressing macro-level issues.  
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53 At the micro level, a large amount of research has analysed the characteristics of  
54  
55 WOCBs and has attempted to explore their experiences of involvement in boards of directors  
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57 (Talmud & Izraeli, 1999; Terjesen et al., 2009). Much of this research has identified the  
58  
59 formal educational attainment and experiential characteristics that women need to obtain  
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3 board positions. Burke (1997), Sheridan (2002) and Singh and Vinnicombe (2004) surveyed  
4  
5 female board directors in Canada, Australia and the UK respectively and higher education  
6  
7 attainment in the form of university degrees were prevalent amongst the female directors in  
8  
9 all three countries as well as extensive business experience. In a similar vein, Bilimoria and  
10  
11 Piderit (1994) conclude that even though women possess sufficient educational qualifications  
12  
13 and relevant professional experience "...they continue to be blocked in their rise to the top"  
14  
15 (Bilimoria & Piderit, 1994: 1471) suggesting that even if women attain the formal and  
16  
17 professional prerequisites for board directorships, they face a number of organisational  
18  
19 barriers en route to board directorships, including opaque recruitment processes, insufficient  
20  
21 career development opportunities and lower remuneration (Singh & Vinnicombe, 2004).  
22  
23 Sheridan (2002) in her research on Australian female board directors' experiences concluded  
24  
25 that as well as relevant and professional experience, the women's contact network was crucial  
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27 in securing their board positions.  
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34 At the meso level, a considerable amount of research has described the prevalence of  
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36 WOCBs, often by undertaking a "census" of the boards of companies listed on local stock  
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38 exchanges, and sought to understand these by reference to organisational characteristics  
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40 (Terjesen et al., 2009). Many studies have examined the prevalence of WOCBs within  
41  
42 particular country settings including the UK (Conyon & Mallin, 1997; Sealy, Singh  
43  
44 & Vinnicombe, 2007; Singh & Vinnicombe, 2004, 2006; Singh, Vinnicombe & Johnson,  
45  
46 2001), the US (Adams and Flynn, 2005; Arfken, Bellar & Helms, 2004; Farrell & Hersch,  
47  
48 2005; Peterson & Philpot, 2007; Soares, Carter & Combopiano, 2009), Canada (Burke, 1997,  
49  
50 1999), Switzerland (Ruigrok, Peck & Tacheva, 2007), Australia (Kang, Cheng & Gray, 2007;  
51  
52 Ross-Smith & Bridge, 2008; Sheridan, 2002), New Zealand (McGregor, 2003), Denmark  
53  
54 (Rose, 2007), Israel (Talmud & Izraeli, 1999), and Spain (Campbell & Miguez-Vera, 2008;  
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56 De Anca, 2008). Looking across the available evidence suggests that there is a striking degree  
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3 of variation in the proportion of board directors who are women in a given country, ranging  
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5 from less than one percent in Switzerland (Ruigrok et al., 2007) to just over 15% in the US  
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7 (Soares et al., 2009), suggesting that a given number of companies could have more than 100  
8  
9 times more female directors in the United States than in Switzerland.  
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12 A second important strand of meso-level research has examined the organisation-level  
13 antecedents of WOCBs. Singh and Vinnicombe (2004), mirroring earlier findings in the US,  
14 UK and Canada, show that even among the largest 100 UK companies, the very largest  
15 companies are twice as likely to have a female director as the smaller companies, suggesting  
16 that firm size plays a significant role in influencing board diversity. There is also strong  
17 evidence that where women and minorities are present on corporate boards they are far more  
18 likely to be found in non-executive (outside) positions and may be less likely to be  
19 represented on key board committees (Bilimoria & Piderit, 1994; Conyon & Mallin, 1997;  
20 Daily, Certo & Dalton, 1999), indicating that the structure of corporate boards, and  
21 particularly the balance between executive and non-executive directors, influences board  
22 diversity. Other correlates of board diversity have attracted less clear support from earlier  
23 evidence. For example, Singh and Vinnicombe (2004), in contrast to the findings of Burke  
24 (1999), find no significant pattern in the link between board size and the presence of a female  
25 director.  
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45 At the macro-level, research has been more limited, but has examined the importance  
46 of a firm's industry environment for the prevalence of WOCBs and, more recently, upon  
47 some of the cross-country influences on WOCBs. A number of studies have highlighted the  
48 importance of a firm's business activity or industry in shaping the presence of women at  
49 board level (Hillman et al., 2007; Singh et al., 2001; Burke, 1999; Nelson & Levesque, 2007).  
50 Pfeffer (1973) shows that the institutional environment significantly influenced the  
51 composition of hospital boards, and Hillman, Cannella & Paetzolds' (2000) study of the  
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3 composition of boards in the US airline industry showed that as the institutional regulatory  
4 environment changed, so too did the composition of the board "...to reflect the shift in  
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6 resource needs confronting the firm" (Hillman et al., 2000: 252). Similarly, Burke (1999)  
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8 demonstrates that there are significant differences across industries in the pattern of board  
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10 diversity with conglomerates having significantly more diverse boards than oil/gas and  
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12 mining/minerals companies.  
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18       Regarding country-level antecedents of WOCBs, a small number of studies have  
19  
20 begun to explore issues relating to the importance of institutional factors for the presence of  
21  
22 WOCBs. Public policy environments have attracted particular attention, especially in light of  
23  
24 the commitments of some governments to greater female representation on corporate boards  
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26 (De Anca, 2008; Hoel, 2008). In a related vein, Esping-Andersen (1990) evaluates the role of  
27  
28 institutional welfare provisions in promoting female work force participation across western  
29  
30 economies. He notes the distinctive role the state has played in Scandinavian countries, in  
31  
32 particular in Sweden and Norway, where maternity leave has ensured that women are able to  
33  
34 actively pursue professional career and skills development outside the home. This is an  
35  
36 essential first step for women wishing to acquire the necessary skills and competencies  
37  
38 required to pursue executive ambitions. More recently, Terjesen and Singh (2008) evaluated  
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40 women's share of the corporate board seats in an international perspective and detailed the  
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42 prevalence of women corporate board directors across a broad range of countries finding that  
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44 a greater presence of WOCBs was found in countries with greater prevalence of women in  
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46 senior official and management positions.  
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54       To summarize, extant research has identified a wide range of explanations regarding  
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56 why such a small proportion of company directorships are occupied by women in many  
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58 countries. Most research has argued that women are discriminated against in the appointment  
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60 processes for board positions, or that women may lack the necessary competencies, networks

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3 or desire to pursue board appointments. More recently, research has begun to address more  
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5 structural barriers to greater female participation on corporate boards, which operate in  
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7 particular industry or country environments. However, as yet, very little systematic research  
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9 has been undertaken that sheds light on the particular nature of these structural impediments  
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11 to higher proportions of women on corporate boards and it is to this deficit that we address  
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13 our analysis.  
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## 20 **COUNTRY INSTITUTIONS AND WOCBs**

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22 In this section, we develop the argument that national institutional systems play a  
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24 substantial role in shaping the demography, particularly in respect of gender, of the board of  
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26 directors of companies active in particular countries. Research in an international  
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28 comparative institutional tradition has proliferated in recent years and has drawn together  
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30 contributions from the political sciences, economics, sociology, and management studies  
31  
32 (Hall & Soskice, 2001; La Porta et al., 1998; Whitley, 1999). In recognition of the “bundled”,  
33  
34 or inter-dependent, nature of many institutional phenomena, the development of national  
35  
36 institutional systems in the form of typologies, taxonomies and classifications of countries  
37  
38 with shared institutional characteristics has been central to extant scholarship (La Porta et al.,  
39  
40 1998; Weimer and Pape, 1999; Whitley, 1999). In this study, we draw upon five of the most  
41  
42 widely cited systems of national institutions and examine both the strength of the association  
43  
44 between these frameworks and the cross-national pattern of WOCBs and hypothesised  
45  
46 relationships between clusters of countries within each framework and the prevalence of  
47  
48 WOCBs. The five national institutional systems we draw upon differ principally in respect of  
49  
50 the emphasis placed upon specific types of institutions. For example, economic institutions  
51  
52 are emphasised in both Hall and Soskice’s (2001) Varieties of Capitalism approach and  
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54 Whitley’s (1992, 1999) National Business Systems theory, legal/regulatory institutions are  
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3 central to La Porta et al.'s (1998) and Weimer and Pape's (1999) institutional systems, and  
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5 systems of national culture are core to Gupta et al.'s (2002) country clusters. In the  
6  
7 remainder of this section, we provide a brief overview of each system of national institutions  
8  
9 and develop testable hypotheses regarding the differences between clusters of countries  
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11 within each system that we expect to play an important role in shaping the prevalence of  
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13 WOCBs.  
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## 20 National Economic Systems

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24 **Varieties of Capitalism (VOC) & WOCBs.** Hall and Soskice (2001) are concerned  
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26 with economic institutions and conceptualise a framework of institutional comparison based  
27  
28 on an actor centred approach, which sees developed economies divided into two principal  
29  
30 categories depending on their national pattern of institutions: the coordinated market  
31  
32 economy (CME), and the liberal market economy (LME). They argue that firms as actors  
33  
34 must engage with a variety of institutions in their pursuit of corporate strategy and  
35  
36 profitability, including labour relations, industry collaboration and coordination and  
37  
38 education. The degree to which economic institutions are subjected to market coordination  
39  
40 (LMEs) versus non-market coordination (CMEs) and, by extension, how these two distinct  
41  
42 forms of economic systems create institutional complementarities within a given country  
43  
44 impacts on the country's competitive positioning (Jackson & Deeg, 2008). Hall and Soskice  
45  
46 (2001) highlight Germany, Switzerland and Belgium as examples of coordinated market  
47  
48 economies (CME). These countries are hallmarked by strong labour relations, extensive  
49  
50 vocational training programmes and strong business networks. The US, the UK and Australia  
51  
52 on the other hand, are seen as the archetypical liberal market economies (LME) where the  
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3 market plays a determining role in balancing industrial relations, commerce is largely  
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5 contractually based and extensive industry collaborations are replaced by competition.  
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8           Recently, a strand of scholarship has begun the project of “gendering the VOC”  
9  
10 approach by exploring the implications of economic systems and their institutional  
11  
12 characteristics for gender inequality (Estevez-Abe, 2005, 2006; Mandel & Shalev, 2009;  
13  
14 Soskice, 2005). Of particular importance within this research are the characteristics of labour  
15  
16 market institutions, and specifically those that influence the patterns of skill investments  
17  
18 made by individuals (Estevez-Abe, 2005, 2006; Mandel and Shalev, 2009). Estevez-Abe  
19  
20 (2005, 2006) argues that the institutional characteristics of CMEs are not conducive to female  
21  
22 managerial ambitions because of the character of their “skill regimes”. In CMEs, skill  
23  
24 regimes are characterised by “institutions that make long-term mutual commitments between  
25  
26 employers and workers credible....much stronger employment protection legislation and  
27  
28 more generous unemployment benefits which make specific skill investments more viable,  
29  
30 [and] close cooperation between unions and employers [that] sustain a robust vocational  
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32 training in secondary schools” (Estevez-Abe, 2005:189). In contrast, in LMEs skill regimes  
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34 lack many of those strong institutions and are, thus, more strongly oriented to the  
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36 development of general skills, including most “certified general education—including high  
37  
38 school diploma, BA, MBA, and a license to practice medicine or law” (Estevez-Abe,  
39  
40 2005:190). The implication of this view at the aggregate, country, level is that, perhaps  
41  
42 paradoxically given their strong record on other aspects of gender equality (such as those  
43  
44 reflected in benefits systems), CMEs are less likely to develop women with the skills  
45  
46 necessary to compete for board positions because “the emphasis in coordinated economies on  
47  
48 specific skills is more appropriate to the male model of full-time continuous employment,  
49  
50 these economies are likely to exclude women from many sectors of employment” (Mandel &  
51  
52 Shalev, 2009:165). Moreover, women’s predicament is further exacerbated by maternity  
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3 leave, and other social, policies. Whilst maternity policies are designed to safeguard women's  
4 jobs during child rearing and offer women the chance to continue work once the child is of a  
5 certain age, employers incur significant costs in covering for maternity absences such as  
6 hiring temporary staff. This reinforces the diminished return on investment to the firm, which  
7 again results in firms preferring to hire and invest in male employees, thereby perpetuating  
8 rather than addressing the disadvantageous position women may find themselves in.  
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20 H1: There is a larger share of women on the corporate board of directors in liberal market  
21 economies than in coordinated market economies.  
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27 **National Business Systems & WOCBs.** The National Business Systems perspective  
28 (NBS henceforth) (Whitley, 1992, 1999) emphasises the economic aspects of institutions and,  
29 like Hall and Soskice's (2001) varieties of capitalism (VOC), proposes that clusters of  
30 countries exist that share a number of common economic institutional characteristics. The  
31 common focus on economic institutions means that the VOC and NBS perspectives share a  
32 number of features (Jackson & Deeg, 2006, 2008). At the same time, the NBS framework  
33 proposes a greater number of clusters of countries that is based upon a focus on a greater  
34 range of national institutions than that encompassed in the VOC approach and, in particular,  
35 with a greater emphasis on diversity in the systems of ownership control and sectoral and  
36 inter-sectoral coordination between companies (Jackson and Deeg, 2006). Hence, while the  
37 VOC approach classifies Ireland and the UK as LMEs, in contrast to typical CMEs such as  
38 Germany and Norway, because of their similar configuration of financial, skills and welfare  
39 systems, the NBS approach sees Ireland as a collaborative system, along with Norway and  
40 Germany, in light of similarities in the ownership of companies and in the patterns of sectoral  
41 and inter-sectoral coordination. While the differences between the VOC and NBS approaches  
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3 are to a substantial extent differences of degree, rather than differences of a fundamental  
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5 nature, given the prevalence of both frameworks in corporate governance research (Aguilera  
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7 & Jackson, 2003; Hall & Gingerich, 2009; Jackson & Deeg, 2006; Pedersen & Thomsen,  
8  
9 1999) we felt it important to assess whether the subtle distinctions inherent in the two  
10  
11 frameworks were significant in the context of corporate board demography. Whitley (1992,  
12  
13 1999) identifies six distinct national business systems, reflecting the degree to which various  
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15 elements of national economic systems are represented in particular countries: Fragmented,  
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17 Coordinated Industrial District, Compartmentalised, State Organised, Collaborative and  
18  
19 Highly Coordinated national business systems. Central to our discussion is the identification  
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21 and differentiation between distinct approaches to talent and leadership development,  
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23 employment and career progression and the impact these differences have on top  
24  
25 management recruitment. The collaborative business system relies on cooperative working  
26  
27 relationships between owners of the firm, providers of capital and other business partners,  
28  
29 such as industry associations and chambers of commerce. These industry alliances and  
30  
31 interest organisations are in the main male dominated and do therefore not represent a  
32  
33 relevant way in which women may derive the contacts and networks necessary for executive  
34  
35 leadership positions (Welter, 2006) . The systems which centre on coordination, such as the  
36  
37 coordinated industrial district and the highly coordinated economy seek to "establish long  
38  
39 term connections with their core workforce and develop distinctive patterns of skill and job  
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41 organisation" (Whitley, 1992:16). The general employment characteristics associated with  
42  
43 these countries are a long term commitment to the firm/employer on part of the employee,  
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45 segmentation of employees between a core and a peripheral work force, with the peripheral  
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47 workforce often consisting predominantly of women, an emphasis on firm specific skills and  
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49 the institutionalisation of organisational careers (Whitley, 1992; Houseman and Abraham,  
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51 1993). These factors result in promotions based on seniority within companies and a top  
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3 management team with a high degree of firm specific skills (Aguilera & Jackson, 2003;  
4  
5 Whitley, 1992). Such a system is likely to disadvantage women who are less likely to invest  
6  
7 in firm specific skills given that their employment trajectory is more likely to encompass  
8  
9 career breaks to raise children and the investment in firm specific skills takes longer to  
10  
11 recuperate and offers less flexibility in career advancement terms (Shire & Gottschall, 2007).  
12  
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14

15 Career progression in compartmentalised countries, by comparison, relies on market  
16  
17 forces, lower levels of firm specific skills, considerable movement between firms and  
18  
19 industries. Countries classified as compartmentalised are, according to Whitley (1992) more  
20  
21 likely to recruit executive management from outside the firm and to place more emphasis on  
22  
23 university degrees and generic skills with an associated merit rather than seniority-based  
24  
25 remuneration and promotion structure. As women are more likely to invest in generic skills  
26  
27 and develop transferable managerial competencies which is compatible with a family life  
28  
29 (Shire & Gottschall, 2007; Webb, 2009) women are more likely to acquire senior executive  
30  
31 positions in compartmentalised economies. In state-organised business systems the founding  
32  
33 families and their allies are often able to retain considerable control as the state typically  
34  
35 provides subsidised credit to these firms (Whitley, 1992). Johannisson and Huse (2000) found  
36  
37 that where familial relations were central to firm management, women were more likely to  
38  
39 take on executive management roles. We therefore propose that:  
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48 H2: There is a larger share of women on corporate boards of directors in countries  
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50 classified as Compartmentalised, and State-Organised than in countries classified as  
51  
52 Collaborative, Fragmented, Coordinated Industrial Districts or Highly Coordinated  
53  
54 economies.  
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## National Legal Systems

**Legal Origin & WOCBs.** Having discussed the possible relevance of national economic systems for the prevalence of WOCBs, we now turn to the likely impacts of legal and regulatory national systems that have been central to political science research on country institutions. La Porta et al. (1998) ground their framework of national institutions within country legal heritages. Constructing a data set of 27 countries, the authors determine legal heritage for each country based on established legal distinctions developed by Reynolds and Flores (1989). Reynolds and Flores (1989) consider differences across countries with regards to national judicial heritage, with particular foci on the distinction between common law and civil law. The legal families identified are: English, German, French and Scandinavian-origin. Countries classified as having a legal structure based on the English common law are put in the English-Origin Countries, whilst countries based on the civil law heritage are allocated to the French, German and Scandinavian-origin clusters, depending on the particular institutional features of the country. Regulative institutions at the national level have been found to play a role in the managerial employment opportunities women are afforded (Parboteeah et al., 2008). Botero, Djankov, La Porta, Lopez-de-Silanes and Shleifer (2004) investigated the role played by labour regulation across 85 countries, including the role regulative heritage played in encouraging female labour force participation. The authors concluded that where extensive employment protection laws were in place women's work force participation rates were higher compared to men, and the authors observed that "In broad terms, common and civil law traditions utilize different strategies for dealing with market failure: the former relying on contract and private litigation and the latter on direct supervision of markets by government. Under this theory, the historical origin of a country's law shapes its regulation of labour and other markets" (Botero et al., 2004:1340). Civil law



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2  
3 countries traditionally have more extensive employment protection laws and better legislation  
4  
5 covering social and welfare policies that are designed to safeguard and promote women's  
6  
7 pursuit of professional careers outside the home (Botero et al., 2004). In Common Law  
8  
9 countries, market forces are more dominant; employment contracts tend to be more flexible  
10  
11 and welfare legislation concerned with engendering a work-life balance that allows women to  
12  
13 pursue professional careers and have family commitments is less extensive (Botero et al.,  
14  
15 2004). In contrast to the argument put forth in support of hypothesis one, the argument we  
16  
17 extend here suggests that civil law countries, many of whom are also CMEs, tend to have a  
18  
19 higher rate of female labour force participation which enables women to build the necessary  
20  
21 professional experience and professional ties which affords them the opportunity to ascend  
22  
23 the corporate ladder (ibid). This argument is justified on the basis that the legal framework  
24  
25 we evaluate here is focused on legislative heritage rather than broader institutional facets, and  
26  
27 *ceteris paribus*, civil-law legislation is designed to be beneficial to women. Therefore we  
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29 suggest that:  
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39 H3: There is a smaller share of women on the corporate board of directors in countries  
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41 classified as English-Origin legal systems than in countries with French, German and  
42  
43 Scandinavian-origin legal systems.  
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48 **Corporate Governance & WOCBs.** Patterns of corporate board demography have  
49  
50 been shown to be substantially influenced by the prevailing national corporate governance  
51  
52 practices (Aguilera & Jackson, 2003; Ruigrok et al., 2007). Weimer and Pape (1999)  
53  
54 synthesise a framework that revolves around eight corporate governance characteristics as  
55  
56 follows: the prevailing concept of the firm; the board system; the stakeholders that have the  
57  
58 ability to influence managerial decision making; the equity market's importance in the  
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2  
3 national economy; the prevalence for a market for corporate control, corporate ownership  
4  
5 concentration, the strength of a link between managerial performance and pay and time scale  
6  
7 involved in economic relationships. Weimer and Pape (1999) argue that distinct geographic  
8  
9 regions will exhibit similar bundles of these eight features, and they identify four clusters of  
10  
11 national corporate governance, a Japanese, a Germanic, a Latin and Anglo-Saxon system of  
12  
13 corporate governance. The literature that investigates the salience of corporate governance  
14  
15 practices for corporate board demography, shows that that where more concentrated forms of  
16  
17 share ownership prevail, companies tend to have more female corporate board directors  
18  
19 (Ruigrok et al., 2007). Concentrated share ownership is a central feature of the Germanic and  
20  
21 Latin systems of corporate governance. From a stakeholder perspective, where family  
22  
23 connections and patriarchal ownership structures dominate, women are more frequently  
24  
25 accorded board directorships (Branson, 2007; Johannisson & Huse, 2000; Sheridan &  
26  
27 Milgate, 2005). Broad stakeholder engagement and concentrated forms of ownership are  
28  
29 hallmarks of the Latin origin and the Germanic origin corporate governance framework  
30  
31 (Weimer & Pape, 1999). The notable exception to these research findings is Japan. Japan is  
32  
33 known for highly concentrated ownership (Yafeh, 2000). Historically, Japanese boards are  
34  
35 heavily insider dominated. Board directors are in the main drawn from a select group of  
36  
37 highly committed managers forming part of the core workforce where women are broadly  
38  
39 absent, as women are in the main assigned to the peripheral workforce (Aguilera, 2005;  
40  
41 Houseman & Abraham, 1993; Miyajima, 2009; Whitley, 1992)

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51 Broader stakeholder engagement and better governance are also arguments used in  
52  
53 favour of the dual tiered board structure which is common in Germanic origin countries and  
54  
55 permissible in Latin origin countries (Huse, Nielsen & Hagen, 2009; Levinson, 2001;  
56  
57 Weimer & Pape, 1999). Employee representatives are likely to be more diverse, and in  
58  
59 particular women have often been found to be more prevalent among employee board  
60

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3 directorships. Although an employee wields different powers to the executive and non-  
4  
5 executive directors, they are considered full board members (Cotton, Vollrath, Froggatt,  
6  
7 Lengnick-Hall & Jennings, 1988). We therefore suggest:  
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12 H4: There is a larger share of women corporate board directors in countries classified as  
13  
14 Germanic and Latin than in countries classified as Japanese or Anglo-Saxon.  
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## 20 National Cultural Systems

21  
22 **Cultural clusters & WOCBs.** Research has established that national culture is an  
23  
24 important factor defining women's role in society more broadly, but also that country cultures  
25  
26 help shape corporate board demography (Adams & Flynn, 2005; Burke & Mattis, 2000;  
27  
28 Hofstede, 1983). Research concerned with national culture has established that such cultures  
29  
30 are multifaceted with Hofstede's pioneering research identifying five dimensions to national  
31  
32 culture and the more recent, and more comprehensive, Global Leadership and Organizational  
33  
34 Behaviour Effectiveness (GLOBE) project identifying nine dimensions of national culture,  
35  
36 some of which map closely onto Hofstede's original dimensions. While both Hofstede's work  
37  
38 and the GLOBE project are concerned with exploring the dimensionality of national culture,  
39  
40 they stop short of providing a typology of countries that have similar patterns of cultural  
41  
42 institutions. Gupta et al. (2002) analyse national cultures using data from the GLOBE project  
43  
44 and construct a framework which shows that national cultures, though consisting of a set of  
45  
46 distinct dimensions, also share significant similarities across particular geographic regions.  
47  
48 Gupta et al. (2002) show that clusters of countries have common cultural characteristics, and  
49  
50 in total they identify 10 such geographic cultural clusters. Of particular interest to our study is  
51  
52 the degree to which culturally held attitudes to gender may impact on women's executive  
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54 career opportunities and ambitions. In particular, following Parboteeah et al. (2008) we focus  
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3 on how different patterns within four of the nine aspects of national culture identified in the  
4 GLOBE research (gender differentiation, assertiveness, uncertainty avoidance and power  
5 distance) that are present in particular groups of countries play a role in shaping corporate  
6 board demography. Gender differentiation is the degree to which men and women are viewed  
7 differently in a given society. Where gender differentiation is lower, women are more likely  
8 to assume senior positions of authority (Javidan & House, 2001). The Nordic European and  
9 Eastern European cultural clusters have lower levels of gender differentiation (Bakacsi,  
10 Takács, Karácsonyi & Imrek, 2002; Szabo, Brodbeck, Den Hartog, Reber, Weibler &  
11 Wurder, 2002), whilst the Anglo cultural cluster score higher (Ashkanasy, Trevor-Roberts &  
12 Earnshaw, 2002), as do the Latin and Asian cultural clusters (Gupta et al., 2002). The  
13 assertiveness category in the GLOBE framework is not dissimilar to the Masculinity element  
14 articulated by Hofstede (1983). Assertiveness refers to elements of aggression and  
15 confrontation in social relationships. Assertive societies are deemed to be characterised by  
16 more masculine values and norms with an emphasis on toughness and material possessions  
17 (Parboteeah et al., 2008), suggesting societal attitudes linked to more traditional gender  
18 stereotype roles. The Germanic cultural cluster scores high on assertiveness (Szabo et al.,  
19 2002). Uncertainty avoidance refers to a nation's reliance on well established social norms to  
20 cope with unpredictability. Bilimoria and Piderit (1994) stated that companies were  
21 occasionally reluctant to take on women directors as there was perceived risk and uncertainty  
22 in appointing them, hence countries that score high on uncertainty avoidance are expected to  
23 have fewer female board directors. The Eastern European cultural cluster is particularly  
24 associated with low uncertainty avoidance (Bakacsi et al., 2002). Finally, the concept of  
25 power distance captures the degree to which a country accepts and recognises that power is  
26 unequally distributed in society. Hierarchies, patriarchal control and gender inequalities are  
27 often associated with countries that are considered to have high power distance. Women are  
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3 often accorded positions at the bottom of the career ladder and are expected to adhere to more  
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5 traditional female gender roles (Parboteeah et al., 2008), suggesting women are less likely to  
6  
7 hold positions of power in such societies. The Germanic and Latin European cultural clusters  
8  
9 are associated with high levels of power distance.  
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15 H5: There is a smaller share of women on the corporate board of directors in countries  
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17 classified as Anglo, Germanic, Latin European, Latin American, Sub-Saharan,  
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19 Confucian Asian and Southern Asian cultures than in countries classified as Nordic  
20  
21 European or Eastern European cultures.  
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## 27 METHODS

### 28 Sample

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31 Our analysis focuses on exploring the extent to which variation between countries in  
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33 the prevalence of women on corporate boards of directors can be explained by corresponding  
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35 variations in their institutional environments. It follows from these objectives that our  
36  
37 analysis requires that there are corporations, i.e. companies that adopt the corporate form, and  
38  
39 that these companies have boards or a comparable highest corporate decision making body.  
40  
41 Notwithstanding these constraints, our sample encompasses all the major continents  
42  
43 including Europe (including almost all of Western Europe, many countries of the former  
44  
45 Eastern Bloc, and Southern Europe including Greece and Turkey), Australasia, Africa, Asia  
46  
47 (including key economies such as Japan, China, Hong Kong, Singapore, India and Malaysia),  
48  
49 Latin America (including Brazil, Mexico, Argentina and Chile), and the United States and  
50  
51 Canada. Notwithstanding this, the constraints described above did limit the number of  
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53 countries included from Africa, the Middle East, and parts of Asia. In total 38 countries were  
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55 included in our analysis, and the sample covers the years 2001-2007.  
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### Dependent Variable

Following earlier WOCB research, our dependent variable is the percentage of women on corporate boards in a given country/year and is calculated according to methods similar to those followed by Arfken et al. (2004) and Terjesen and Singh (2008) in that we draw upon a range of primary and secondary sources and focus on the largest listed companies in a given country. Given our approach of examining the composition of the boards of the largest listed companies for as many companies for which reliable estimates could be identified, a primary issue relates to the variation in stock market depth across countries and, hence in the number of firm-level observations available upon which to base an estimate of the overall prevalence of WOCBs in a given country. For example, while there are thousands of listed companies in the United States, and hundreds in many European countries, many countries have fewer (<30) large listed companies. Our approach to dealing with this issue was fourfold. First, we sought to use as much information as possible in deriving our estimates of the proportion of WOCBs – i.e. to use the full range of listed companies for countries where that was available. Second, we imposed a lower bound of 10 on the number of companies per country that we required to provide an estimate for that country in order to eliminate possibly spurious estimates based on very small numbers of companies. Third, we attempted wherever possible to triangulate our estimate with estimates available in a range of secondary sources described below. Fourth, we undertook a range of robustness tests that imposed different thresholds for the number of company observations used in the analysis to ensure that our findings were robust to this decision.

For many countries we aggregated from the firm to the country level using board data from company annual reports as compiled by BoardEx, a commercially available database of the largest listed companies in a wide range of countries, which has been used in earlier academic research (Singh, 2007). For other countries, we collected data directly from

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3 corporate annual reports. For example, using Latin Trade's list of Top 500 companies in  
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5 Latin America by Net Sales, we identified companies for Argentina, Brazil, Chile and  
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7 Mexico, the largest Latin American trading economies. Given the difference in the size and  
8  
9 scale of the Latin American trading economies this meant that for some countries we  
10  
11 included all the companies on the Latin Trade 500 list e.g. Argentina, whilst for other  
12  
13 countries like Mexico, we included the 65 companies that had a corporate board based in  
14  
15 Mexico, however we did not include large companies that were incorporated in Mexico but  
16  
17 which were under the auspice of the parent company board which was based overseas. In  
18  
19 addition to this firm level data, we used data from a variety of other sources including the  
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21 European Commission, Spencer Stuart Board Indices, Catalyst, the Australian Equal  
22  
23 Opportunities for Women in the Workplace Agency (EOWA), Business Women's  
24  
25 Association South Africa and Globe Women. Where this process provided us with multiple  
26  
27 estimates of the prevalence of women on boards within a particular country, we elected to  
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29 adopt the estimate that was generated using the largest sample of firm observations since we  
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31 viewed this as providing the most robust and reliable estimate. From these sources we  
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33 identified how many board seats each corporation had and how many of these seats were  
34  
35 occupied by women. We then aggregated this to the national level by calculating how many  
36  
37 board seats the largest publicly listed companies had between them in total, and then we  
38  
39 calculated how many of these seats were held by women. We then divided the total number  
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41 of board positions held by women by the total number of board seats available and arrived at  
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43 a percentage share of board seats held by women for a given country.  
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### 55 **Independent variables**

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57 Our approach involves generating a set of independent variables that encapsulate the  
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59 distribution of countries across each of the five national institutional systems discussed  
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2  
3 above. This was done on the basis of an extensive review of the literature concerned with  
4 comparative institutional analysis. For four of the five systems of national institutions we  
5  
6 draw upon, the authors attribute countries to clusters in such a way as to make construction of  
7  
8 our independent variables straightforward (Gupta et al., 2002; Hall & Soskice, 2001; La Porta  
9  
10 et al., 1998; Weimer & Pape, 1999). Only in the case of NBS was additional research  
11  
12 required in order to attribute particular countries to the classifications described in the  
13  
14 conceptualisation of country institutional systems. Where possible, we supplemented this  
15  
16 with an examination of key indicator variables highlighted in the frameworks that we drew  
17  
18 from databases constructed by the OECD and World Bank. Drawing upon multiple sources  
19  
20 enables us to triangulate our attribution of particular countries to categories described in the  
21  
22 NBS approach and so give us greater confidence in the robustness of this process of  
23  
24 attribution. Table 1, below, describes the attribution of countries to particular clusters within  
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26 each national institutional system.  
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38 Insert table 1 about here  
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42 Having attributed as far as possible countries to clusters within the national  
43  
44 institutional systems, we constructed a family of dummy variables for each system that  
45  
46 encapsulated the grouping of countries within particular clusters. For example, in the case of  
47  
48 Hall and Soskice's (2001) economic framework varieties of capitalism, we created three  
49  
50 variables labelled "Liberal Market Economy", "Coordinated Market Economy", and "Other  
51  
52 Economies". Each variable takes a value of one if a given country is attributed to that cluster,  
53  
54 and zero otherwise. In a similar manner, we created a family of dummy variables that capture  
55  
56 the clusters of national economic systems encompassed in the NBS approach (Whitley,  
57  
58 1999), the national legal systems identified in La Porta et al. (1998), the clusters of national  
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3 systems of corporate governance proposed in Weimer and Pape (1999) and the cultural  
4 clusters identified in Gupta et al. (2002). In each case, we also created an additional variable  
5  
6 “Other” to which any country not included in the authors’ data set was ascribed. In the case  
7  
8 of the cultural clusters, identified in Gupta et al. (2002), the Arab culture was excluded from  
9  
10 our analysis due to the lack of sufficient data for Arab countries.  
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### 17 **Control variables**

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19 In order to reflect the possibility that the composition of boards of directors has changed over  
20 time independent of the nature of the prevailing national institutional systems, we created a  
21 set of dummy variables, one for each year encompassed by our dataset, which take a value of  
22 one if a given observation is attributable to that year, and zero otherwise.  
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## 32 **FINDINGS**

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34 In this section, we discuss the findings of our empirical analysis. We begin by  
35 providing a descriptive overview of the prevalence of women on corporate boards. This  
36 descriptive overview is presented in table 2, below. Consistent with the observations of  
37 earlier research, the prevalence of women on corporate boards (as reflected in the percentage  
38 of directorships held by female directors) varies very substantially across countries (Burke,  
39 1999; Burke & Mattis, 2000; Conyon & Mallin, 1997; Singh et al., 2001, 2004; Terjesen &  
40 Singh, 2008). At one end of the spectrum, 30% or more of directorships are occupied by  
41 female directors in Norway, Bulgaria, Finland and Latvia, while, at the other, female  
42 directors are almost entirely absent from boardrooms in Japan, Singapore, Egypt and Chile.  
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57 Insert table 2 about here  
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4 Before reporting our regression results, we present the descriptive statistics, and  
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6 correlation coefficients for our data. Given the mutual exclusivity of the classification of  
7  
8 countries to particular clusters within each national institutional system, our analysis is very  
9  
10 unlikely to encounter multicollinearity. As expected given this mutual exclusivity, there are  
11  
12 negative correlations between the clusters within a given system of national institutions.  
13  
14 Perhaps most interesting is the pattern of correlation between particular clusters of different  
15  
16 national institutional systems. Very high positive correlations were found between  
17  
18 membership of the Liberal Market Economy cluster, the Anglo-Saxon corporate governance  
19  
20 cluster and the Anglo cultural cluster. A similarly high correlation was found between  
21  
22 involvement in the coordinated market economy and in the Germanic system of governance  
23  
24 cluster. Since Japan is the only country in these categories, correlations of 1 were found  
25  
26 between Confucian Asian cultures, the Japanese system of governance and the highly  
27  
28 coordinated economy cluster. Other high correlations were seen where they would be  
29  
30 expected such as the correlation between Germanic cultural cluster and the Germanic law  
31  
32 cluster, and between the Anglo-Saxon cultural cluster and the Anglo-Saxon legal system  
33  
34 cluster. Given the variety present in the fundamental precepts of these alternative conceptions  
35  
36 of national institutions, the pattern of correlations identified is strongly suggestive of  
37  
38 significant interdependencies between elements of national institutional systems. However, in  
39  
40 other areas, the correlations are quite low, indicating that there is also a significant degree of  
41  
42 heterogeneity across different conceptions of the prevailing national institutional systems.  
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Insert table 3 about here  
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58 Turning to our regression analysis, our initial results are reported in table 4. In order  
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60 to avoid the dummy variable trap, it is necessary to omit one cluster from each of our national

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3 institutional systems (Hair, Anderson, Tatham & Black, 1998). The “Other economies”  
4  
5 cluster was omitted from the Varieties of Capitalism framework, in order to retain both the  
6  
7 LME and CME clusters. In the analysis of systems of legal/regulatory, corporate governance  
8  
9 and cultural institutions, we omitted the Germanic cluster as this was closest to the mean for  
10  
11 the dependent variable. The compartmentalised cluster was omitted from the NBS model as  
12  
13 this included the US and the UK the two largest developed trading economies in the sample,  
14  
15 where the largest share of board seats available to women would be found. In considering our  
16  
17 results, the interest lies principally in two aspects. First, the explanatory power of each model  
18  
19 provides an insight into the overall importance of a particular national institutional system for  
20  
21 the prevalence of women on a country’s boards. Given that the number of clusters identified  
22  
23 within the each institutional framework varies, the focus is appropriately with the adjusted R-  
24  
25 squared statistic. Second, the statistical significance of particular clusters of countries within  
26  
27 each framework provides an insight into the particular institutional characteristics that are  
28  
29 conducive, or otherwise, to greater female representation on corporate boards.  
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36 We report two sets of regression results that differ according to the sample analysed.  
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38 The first set of results, models 1-6 reported in table 4, outline the findings of explaining the  
39  
40 variance across countries and time in the prevalence of women on corporate boards where the  
41  
42 sample is the maximum permitted given the breadth of our database and the range of  
43  
44 countries identified in the conceptual discussions of national institutional systems (described  
45  
46 in table 1). Model 1 provides a baseline by exploring the relationship between the prevalence  
47  
48 of women on corporate boards and time alone. Overall, this model explains approximately  
49  
50 13% of the variance between countries and time in the level of female representation on  
51  
52 corporate boards. Furthermore, and consistent with recent evidence, our results show that the  
53  
54 proportion of directorships held by female directors has grown quite substantially in recent  
55  
56 years. Specifically, we estimate that the percentage of women on boards has grown by nearly  
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3 6% in the period 2000-2007. Relative to the average initial level of board diversity in our  
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5 sample of approximately 6%, this is a substantial change. Models 2-6 examine the  
6  
7 explanatory power and pattern of significance of each of the five systems of national  
8  
9 institutions discussed above in turn. Respectively, models 2-6 explore the relevance for  
10  
11 female board representation of economic institutions (models 2 and 5), legal/regulatory  
12  
13 institutions (models 3 and 4) and cultural institutions (model 6).  
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18 Model two explores the relevance for WOCBs of national economic systems as  
19  
20 reflected in the VOC approach (Hall & Soskice, 2001), and the model finds that the share of  
21  
22 female corporate board directors is higher in both coordinated market economies (Model 2:  
23  
24  $t=1.05$ ,  $p<0.01$ ) and in liberal market economies (Model 2:  $t=1.10$ ,  $p<0.01$ ) than in other  
25  
26 economies, but that there is no statistically significant difference between LMEs and CMEs  
27  
28 in respect of the prevalence of WOCBs. The adjusted  $R^2$  for this model is 15.9%, suggesting  
29  
30 that national economic institutions, thus conceptualised, add about 8% to the overall  
31  
32 explanatory power of the base model. Model 3 examines the importance of national legal  
33  
34 institutions for WOCBs. The analysis shows that countries with legal frameworks that are  
35  
36 characterised as being English Origin (Model 3:  $t=0.80$ ,  $p<0.01$ ) and Scandinavian Origin  
37  
38 (Model 3:  $t=0.93$ ,  $p<0.01$ ) have a significantly greater percentage of WOCBs than countries  
39  
40 with either French or Germanic legal heritages. Regarding the addition to the overall  
41  
42 explanatory power of the base model provided by including national legal systems, we find  
43  
44 that the adjusted  $R^2$  for model 3 is 51.9%, a very substantial increase relative to the base  
45  
46 model, suggesting that national legal institutions are, overall, very important for WOCBs.  
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52 Model 4 evaluates the role of corporate governance systems in shaping the extent of WOCBs.  
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54 Countries classified to the Latin (Model 4:  $t=0.96$ ,  $p<0.01$ ) and Japanese (Model 4:  $t=3.14$ ,  
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56  $p<0.05$ ) corporate governance systems were found to have a significantly lower percentage of  
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58 women on their boards compared with both the Anglo-Saxon and German systems of  
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3 corporate governance. Regarding the overall contribution of national systems of corporate  
4  
5 governance to the explanatory power of the model, model 4's adjusted R-Squared is 32.5%,  
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7 suggesting that systems of corporate governance play a modest role in shaping WOCBs.  
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10 Model 5 evaluates the significance of national economic systems as seen in the NBS  
11  
12 framework and reveals that countries in both the Co-ordinated Industrial Districts (Model 5:  
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14  $t=1.24$ ,  $p<0.01$ ) and Highly Co-ordinated (Model 5:  $t=3.12$ ,  $p<0.05$ ) clusters have  
15  
16 significantly lower proportions of women on their boards than countries classified to the  
17  
18 other clusters. Finally, model 6 explores the relevance of national cultural institutions for  
19  
20 WOCBs. The coefficients for the Anglo cluster (Model 6:  $t=0.79$ ,  $p<0.01$ ) of countries along  
21  
22 with the Nordic European (Model 6:  $t=0.96$ ,  $p<0.01$ ), Eastern European (Model 6:  $t=0.96$ ,  
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24  $p<0.01$ ) and Sub-Saharan (Model 6:  $t=1.34$ ,  $p<0.01$ ) were positive and statistically significant  
25  
26 suggesting that these clusters have significantly greater percentages of women on their boards  
27  
28 than the Germanic European cluster of countries. The South Asian, Latin Europe and  
29  
30 Confucian Asian clusters had a lower proportion of WOCBs than the Germanic European  
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32 cluster, however only the Confucian Asia result was marginally significant at the 10% level.  
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34 The overall contribution of introducing cultural clusters to the base model led to an increase  
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36 in the adjusted R-Squared to 47.4%, suggesting that cultural institutions are also a very  
37  
38 important influences on WOCBs. Comparing the additions to the explanatory power, models  
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40 2-6 range from an R-squared of 21% to 54%. The largest increments to explanatory power  
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42 were related to the inclusion of national legal systems and national cultures, suggesting that  
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44 the relatively legally and culturally-oriented institutional systems have more to offer in  
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46 explaining board diversity than the economically-oriented national institutional systems or  
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48 systems of corporate governance.  
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Insert table 4 about here  
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8 Reflecting the variation in the breadth of countries encompassed by the national  
9 institutional systems, the number of observations varies very significantly across the models  
10 presented in table 4. Consequently, both the relative predictive ability of the frameworks and  
11 the substantive conclusions concerning the clusters of countries most associated with higher  
12 proportions of WOCBs may simply be an artefact of the variation in the sample across the  
13 models. Therefore, in order to test the findings reported above for robustness, we undertook a  
14 second phase of analysis that focused on a common sample of countries/years that were  
15 available for all of the national institutional systems. These results are presented in models 7-  
16 11 in table 5. Given the need for commonality across all five frameworks, this reduces the  
17 number of observations considerably and reduces the range of categories of some institutional  
18 systems present in our analysis. Specifically, focusing on the set of countries which are  
19 present in each institutional system eliminates the Eastern European, Latin American, South  
20 Asian, and Sub-Saharan cultural clusters from our analysis.  
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38 Substantively, the results are very similar to those discussed above. For example,  
39 concerning the explanatory power of the models, the overall contributions made by adding  
40 national cultural clusters and national legal systems remain higher than the additional  
41 explanatory power obtained by adding national economic institutions or systems of corporate  
42 governance. Hence, we find further evidence that among the breadth of national institutional  
43 systems, cultural and legal systems play the most significant role in shaping the prevalence of  
44 women on boards. Concerning the particular clusters of countries captured in the specific  
45 national institutional systems, the findings regarding models 7-11 are strongly resonant with  
46 those discussed above. Specifically, Scandinavian and English legal systems, Anglo-Saxon  
47 and Germanic systems of corporate governance, and Nordic European and Anglo-Saxon  
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3 cultures are most conducive to high levels of female representation on corporate boards. In  
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5 contrast, women are substantially less prevalent on corporate boards in Latin and Japanese  
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7 governance systems, and in Latin and Confucian cultures.  
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19 The final robustness test to be completed concerned ensuring the inclusion of Norway  
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21 had not unduly skewed the results, given the legislative requirement for female corporate  
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23 board representation in Norway. Consequently, the regressions presented in Model 1-6 were  
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25 re-run absent the Norwegian data. The results conformed to those presented in table 4 and are  
26  
27 therefore not reported here. This test confirmed that the inclusion of Norway in the analysis  
28  
29 did not impact our analysis. Regarding the findings with respect to particular institutional  
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31 configurations, Scandinavian legal systems, Anglo-Saxon and Germanic modes of corporate  
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33 governance, and Nordic cultures are found to be most conducive to the presence of higher  
34  
35 percentages of women on corporate boards.  
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40 Reflecting upon the results presented in tables 4 and 5 in light of our hypotheses  
41  
42 suggests that we find some support for many of the hypothesised relationships. Specifically,  
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44 we find some support for hypothesis 1 in that, controlling for variation across models in  
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46 sample size, liberal market economies have a ratio of women on corporate boards  
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48 approximately two percentage points greater than that seen in coordinated market economies.  
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50 The evidence also supports hypothesis 2 to a substantial degree with highly coordinated and  
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52 coordinated industrial district economies exhibiting significantly fewer women on their  
53  
54 boards than other types of economy. In respect of hypothesis 3, results are mixed. While,  
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56 consistent with hypothesis 3, we find that countries with Scandinavian legal systems to have  
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58 significantly higher percentages of women on their boards, we, in contrast to hypothesis 3,  
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3 find that countries with English-origin legal systems have a higher prevalence of WOCBs  
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5 than countries with French and German origin legal systems. Results in respect of hypothesis  
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7 4 are also mixed with support for a higher proportion of WOCBs in countries with Germanic  
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9 systems of corporate governance relative to other systems and a significantly lower rate of  
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11 WOCBs among countries with Japanese corporate governance. At the same time, countries  
12  
13 with Latin systems of corporate governance had a lower percentage of WOCBs than those  
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15 with Anglo-Saxon corporate governance, contrary to hypothesis 4. Finally, hypothesis 5  
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17 attracted strong support with greater proportions of WOCBs being found in Nordic and  
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19 Eastern-European cultural clusters than elsewhere.  
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## 27 **DISCUSSION**

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29 In this study, we have examined the role played by national institutional systems in  
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31 explaining cross-country variation in the prevalence of WOCBs. In order to address this  
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33 question, we have compared the predictive power and substantive implications of five  
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35 existing frameworks of national institutional systems that emphasise the importance of  
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37 economic, legal/regulatory, corporate governance and cultural institutions. These frameworks  
38  
39 encapsulate a variety of national institutional characteristics and provide a means to  
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41 distinguish between the salience of different aspects of country institutional systems in  
42  
43 shaping board demography. Our findings show that as much as half of the variation across  
44  
45 countries in the presence of women on corporate boards is attributable to institutional factors  
46  
47 and that, overall, legal and cultural institutions appear to play the most significant role in  
48  
49 shaping the prevalence of women on corporate boards. Our analysis makes an important  
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51 contribution to the Corporate Governance literature, which has called for further analysis of  
52  
53 how country level institutional systems influence and explain a variety of interest-group level  
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55 phenomenon (Redding, 2005), and to research concerned with WOCBs, where it has been  
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3 observed that “the field would benefit from further international studies” (Terjesen et al.,  
4 2009: 333). This study is among the first to systematically assess the explanatory power of  
5  
6 institutional influences on WOCBs and, through this, we significantly extend the literature on  
7  
8 board demography. Our analysis complements existing research on WOCBs by showing that  
9  
10 not only do processes that shape board demography work at the firm and industry level, but  
11  
12 there are also a set of processes related to a country’s institutional environment that play an  
13  
14 important role in shaping the prevalence of women on boards and that contribute significant  
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16 structural barriers to, or facilitators of, the presence of WOCBs. This suggests that research  
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18 concerning board demography should now pay greater attention to macro-level influences  
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20 and the relationship between these and meso- and micro-level influences associated with  
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22 industry pressures, firm characteristics and internal firm processes of director selection and  
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24 retention.  
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32 Beyond exploring the broad macro-level relevance of national institutional systems  
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34 for WOCBs, our analysis of the variation within each system, and between clusters of  
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36 countries with similar underlying institutional characteristics, also found support for a  
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38 number of hypothesised relationships. We identified some weak support for hypothesis one in  
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40 that, having controlled for variations across models in sampling, Liberal Market Economies  
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42 have a higher proportion of women on their boards than do Coordinated Market Economies  
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44 by around two percentage points. However, our evidence in respect of hypothesis three was  
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46 contrary to our expectations. Specifically, we found that countries in the Germanic and  
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48 French clusters as classified by La Porta et al. (1998) had a lower proportion of women on  
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50 their boards in spite of greater legislative safeguards designed to assure women’s  
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52 employment rights and professional career opportunities. One possible explanation may lie in  
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54 the competing contentions presented in hypothesis one and hypothesis three; although  
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56 legislation may be designed to protect women’s employment rights, it is possible that the  
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3 effectiveness of employment protection law may also rely on putting in place appropriate  
4 incentives for companies to engage female employees. If firms operating in CMEs and civil-  
5 law countries are not adequately compensated for the loss of human capital investment and  
6 skills associated with women taking career breaks, the firms will be more inclined to hire and  
7 invest in male employees who are more likely to have a sustained and uninterrupted career  
8 trajectory in the knowledge that the law would force them to invest in similar ways for male  
9 and female employees. A substantive finding from this analysis, irrespective of the particular  
10 contention of the hypothesis posed is the finding that legal/regulatory institutional systems  
11 add considerable explanatory power to our model. Whilst our starting premise rested on the  
12 assumption that legislation designed to safeguard women's employment opportunities and  
13 rights would increase the share of women board directors, in fact what may be the case is that  
14 women prevail to a larger degree on corporate boards in countries where the legal  
15 institutional system is based on market forces. In fact, it has been suggested that the  
16 regulative incentives provided for by strong equal opportunities legislation might require  
17 affirmative action initiatives such as that introduced in Norway. Although the introduction of  
18 a mandate that all corporate boards have a minimum of 40% of the seats occupied by women  
19 was highly controversial, it was successful in increasing the prevalence of women on  
20 corporate boards dramatically.

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46 Country culture was found to play an important role in shaping WOCBs, with  
47 countries classified as belonging either to the Scandinavian or Eastern European cultural  
48 cluster having more corporate board seats occupied by women than the countries classified in  
49 the Latin European, Confucian Asia or South Asia cluster. National culture is therefore an  
50 important factor in shaping corporate board demography. The GLOBE framework  
51 highlighted the cultural advantages afforded women in, amongst others, Scandinavian  
52 countries. This finding perhaps further serves to underline the importance of national

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3 legislation in changing the gender composition of corporate boards. Since national cultures  
4 are slow to change, consequently nations with a cultural heritage might have to consider more  
5 radical options like affirmative action to redress the gender imbalance in the corporate board  
6 room. Spain, a Latin European country, with low female board participation has done just so  
7 (Toomey, 2008), and introduced a clause in their national corporate governance code which  
8 stipulates a “balanced presence of women and men” by 2015 (De Anca, 2007).  
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17       Regarding the implications of our research for research in comparative capitalisms,  
18 our findings suggest that this strand of research has the capacity to contribute significantly to  
19 our understanding of gender-related phenomena and also to issues concerned with board  
20 composition. As in the case of the economic performance of nations, our findings suggest that  
21 no one form of capitalism is most conducive to a greater presence of WOCB but that both  
22 LMEs and CMEs have a higher prevalence of women on boards than other countries.  
23 Equally, the findings for the NBS approach demonstrate that co-ordinated economic systems  
24 tend to have significantly fewer WOCBs. At the same time, the project of creating more  
25 nuanced and descriptively valid frameworks that reflect the particular configurations of  
26 institutional features present in particular groups of countries appears to contribute relatively  
27 little to our understanding relative to the primary distinction between LMEs and CMEs made  
28 in the VOC approach.  
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45       Our analysis indicates that future research concerned with the relevance of  
46 institutional environments for both aspects of boards of directors in general, and the  
47 participation of women in boards in particular, might provide further valuable insights. Our  
48 analysis has confined itself to a focus on board gender diversity, but future work could extend  
49 this to other aspects of boards and their activities. Since, as our research shows, multiple  
50 levels of analysis are necessary in order to fully appreciate the drivers of female participation  
51 on corporate boards, future research should also attempt to assess the relative importance of  
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3 these multiple levels of analysis. We have identified important country-level phenomena, but  
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5 it is also important to recognise that institutional and other effects operate at the level of the  
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7 industry, firm and within intra-firm processes. Future research could profitably explore these  
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9 influences.  
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12 Finally, some limitations of this study suggest valuable future research opportunities.  
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14 Some of these relate to the sample of countries we were able to analyse and some with the  
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16 level of analysis. Our analysis was constrained by the availability of publicly accessible data  
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18 concerning the make up of boards in many countries, future work could attempt to overcome  
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20 this limitation as better data become available for more African, Middle Eastern, and Asian  
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22 countries. This would add considerable variety to the pattern of institutional environments  
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24 present in future work and help to establish the robustness of our findings. Work that sampled  
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26 companies other than the largest listed companies would also provide for distinctive insights.  
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28 Future research could also go beyond the national institutional systems encompassed in our  
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30 study, and explore the underlying components of the broad clusters of institutions explored  
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32 here. This would help to address Allen's (2004) observation that one shortcoming of the  
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34 Varieties of Capitalism approach to analysing institutional context is the assumption that firm  
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36 behaviour is identical across institutionally different countries. Whitley (1998) also notes that  
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38 Hall and Soskice's (2001) framework could benefit from deeper firm level probing to better  
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40 evaluate how the particulars of internationalisation and economic activity impact on firm  
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42 behaviour.  
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50 Lastly, because our analysis occurs at the country level, it is unable to evaluate the  
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52 extent to which the role of country institutions for WOCBs might vary with some firm and/or  
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54 industry characteristics. One particularly interesting potential avenue for future research  
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56 concerns the difference between MNCs and their domestic counterparts. MNCs are distinct in  
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58 that they establish a physical presence in at least one other country. Recent debates on the  
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3 relevance of institutional context for MNCs have taken a very interesting turn, suggesting that  
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5 MNCs make up a meta-institutional field (Kostova, Roth & Dacin, 2008) which transgresses  
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7 industry and country borders. Instead, MNCs “are becoming, it is argued, increasingly  
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9 disconnected from national institutional systems” (Kostova et al., 2008: 998). In other words,  
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11 the national institutional context of the MNCs’ country-of-origin would be a less significant  
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13 factor in shaping the gender-profile of MNCs’ corporate boards. Further research into the  
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15 international character of corporate board composition has shown that a number of women  
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17 board directors are foreign nationals, suggesting that cross-fertilisation of the institutional  
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19 environment may be taking place (Singh & Vinnicombe, 2004). Given the complex nature of  
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21 institutional environment and the debate on women corporate board directors, the firm level  
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23 behaviour of companies in different institutional settings with regards to this question may  
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25 offer interesting areas of future research.  
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### 34 CONCLUSION

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36 In this study, we examine the role played by national institutional systems in  
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38 explaining cross-country variation in the prevalence of women on corporate boards of  
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40 directors. We do so with reference to five frameworks of national institutional systems. We  
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42 include two economically-oriented institutional frameworks as captured by Hall and Soskice  
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44 (2001) varieties of capitalism and Whitley’s (1992; 1999) national business systems, we  
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46 further include two frameworks that encompass corporate governance and legislative  
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48 institutional systems as reflected in Weimer and Pape (1999) and La Porta et al.’s (1998)  
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50 frameworks respectively and finally one framework which centres on institutional systems  
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52 related to national cultural characteristics (Gupta et al., 2002). Our findings show that as  
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54 much as half of the variation across countries in the presence of women on corporate boards  
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3 is attributable to institutional factors and that legal institutions appear to play the most  
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5 significant role in shaping board diversity.  
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8 Our study has some notable practical implications. We found that legislative heritage  
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10 was a particularly important driver in shaping corporate board demography. However, at the  
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12 same time where countries had introduced welfare provisions to encourage women to balance  
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14 a professional career with care responsibilities these countries had fewer women board  
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16 directors. This suggests that affirmative action initiatives like those adopted by Norway, and  
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18 subsequently Spain may have an important role to play in creating more gender balanced  
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20 boards. Although Norway's decision to introduce affirmative action in this area was  
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22 controversial at the time, it has radically altered the face of Norway's corporate boards and set  
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24 an example to other countries. A second, but related finding was the view that national  
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26 culture plays an important role in female board ascension. The Scandinavian and Eastern  
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28 European cluster of countries had the largest share of female board directors, yet Norway was  
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30 still forced to implement drastic measures to redress the gender balance in Norwegian  
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32 boardrooms. Where a given national culture is less open to high-profile commercial roles for  
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34 women, legislative initiatives may be a particularly effective lever in ensuring the best talent  
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36 is represented on the corporate board of directors, irrespective of gender.  
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## REFERENCES

- 1  
2  
3  
4  
5  
6 Adams, S.M. & Flynn, P.M. 2005. Local knowledge advances women's access to corporate  
7 boards. *Corporate Governance*, 13(6): 836-46  
8  
9 Aguilera, R.V. 2005. Corporate governance and director accountability: an institutional  
10 comparative perspective. *British Journal of Management* 16(s1)39-53  
11  
12 Aguilera, R. V. 2006. Corporate Governance. In J. Beckert, & Zafiroski, M. (Ed.),  
13 *International Encyclopaedia of Economic Sociology*: 120-124. London: Routledge.  
14  
15 Aguilera, R. V. & Jackson, G. 2003. The Cross-National Diversity of Corporate Governance:  
16 Dimensions and Determinants. *The Academy of Management Review*, 28(3): 447-465.  
17  
18 Allen, M. 2004 The VOC paradigm: not enough variety? *Socio-economic Review*, 2: 87-108  
19  
20 Arfken, D.E., Bellar, S.I. and Helms, M.M. 2004. The ultimate glass ceiling revisited: the  
21 presence of women on corporate boards. *Journal of Business Ethics* 50(2):177-86  
22  
23 Ashkanasy, N. M., Trevor-Roberts, E., & Earnshaw, L. 2002. The Anglo Cluster: legacy of  
24 the British Empire. *Journal of World Business*, 37(1): 28-39.  
25  
26 Bakacsi, G., Takács, S., Karácsonyi, A., Imrek, V. 2002. Eastern European cluster: tradition  
27 and transition. *Journal of World Business*, 37(1): 69-80.  
28  
29 Bilimoria, D.& Piderit, S.K. 1994. Board Committee membership: effects of sex-based bias.  
30 *Academy of Management Journal*, 37(6):1453-1477  
31  
32 Botero, J. C., Djankov, S., La Porta, R., Lopez-De-Silanes, F., Shleifer, A. 2004. The  
33 Regulation of Labor, *Quarterly Journal of Economics*, 119: 1339-1382  
34  
35 Branson, Douglas M. 2007. No Seat at the Table: How Corporate Governance and Law Keep  
36 Women Out of the Boardroom. *The Road to the Top: The Evidence*, Chapter 7, NYU Press  
37  
38 Brouthers, K.D. 2002. Institutional, cultural and transaction cost influences on entry mode  
39 choice and performance. *Journal of International Business Studies* 33(2): 203-221  
40  
41 Burke, R.J.1997. Women on corporate boards of directors: a needed resource. *Journal of*  
42 *Business Ethics* 16(9):909-915  
43  
44 Burke, R.J. 1999. Women on Canadian Boards of Directors: getting the numbers right!  
45 *Corporate Governance: An International Review*, 7(4), 374-78  
46  
47 Burke, R. J., & Mattis, M.C. 2000. Women on Corporate Boards of Directors *International*  
48 *Challenges and Opportunities*: Kluwer Academic Publishers  
49  
50 Campbell, K. & Mínguez-Vera, A. 2008. Gender Diversity in the Boardroom and Firm  
51 Financial Performance. *Journal of Business Ethics* 83(3):435-451  
52  
53  
54  
55  
56  
57  
58  
59  
60

- 1  
2  
3 Conyon, M.J. and Mallin, C. 1997. Women in the boardroom: evidence from large UK  
4 companies. *Corporate Governance: An International Review*, 5(3), 112-117.  
5  
6 Cotton, J. L., Vollrath, D. A., Froggatt, K. L., Lengnick-Hall, M. L., & Jennings, K. R. 1988.  
7 Employee Participation: Diverse Forms and Different Outcomes. *Academy of Management*  
8 *Review*, 13(1): 8-22.  
9  
10 Daily, C.M., Certo, S.T. & Dalton, D.R. 1999. A decade of corporate women: Some progress  
11 in the boardroom, none in the executive suite. *Strategic Management Journal*, 20(1):93-100  
12  
13 De Anca, C. 2007 Women on corporate boards: Powering the future. AIWF Conference,  
14 Dubai  
15  
16 De Anca, C. 2008. Women on corporate boards of directors in Spanish listed companies, in  
17 Vinnicombe, S., Singh, V., Burke, R., Bilimoria, D., and Huse, M. (eds) *Women on*  
18 *Corporate Boards of Directors: International Research and Practice*, Cheltenham, Edward  
19 Elgar, pp. 96-107  
20  
21 Deeg, Richard and Jackson, Gregory (2006). "How Many Varieties of Capitalism?  
22 Comparing the Comparative Institutional Analyses of Capitalist Diversity." MPIfG  
23 Discussion Paper 06/2. Cologne: Max Planck Institute for the Study of Societies.  
24  
25 Denis, D.K. & McConnell, J.J. 2003. International Corporate Governance. *Journal of*  
26 *Financial and Quantitative Analysis* 38(1): 1-36  
27  
28 Esping-Andersen, G. 1990. *The Three Worlds of Welfare Capitalism*. Polity Press  
29  
30 Estevez-Abe, M. 2005. Gender Bias in Skills and Social Policies: The Varieties of Capitalism  
31 Perspective on Sex Segregation. *Social Politics*, 12: 180-215  
32  
33 Estevez-Abe, M. 2006. Gendering the varieties of capitalism: a study of occupational  
34 segregation by sex in advanced industrial societies. *World Politics*, 59(1): 142.  
35  
36 Farrell, K.A. & Hersch, P.L. 2005. Additions to corporate boards: the effect of gender. *Journal*  
37 *of Corporate Finance* 11(1-2): 85-106  
38  
39 Fligstein, N. & Freeland, R. 1995. Theoretical and Comparative Perspectives on Corporate  
40 Organizations. *Annual Review of Sociology*, 21(1): 21  
41  
42 Gupta, V. Hanges, P. J. & Dorfman, P. 2002. Cultural clusters: methodology and findings.  
43 *Journal of International Business* 37(1):11-15  
44  
45 Hair, J.F., Anderson, R.E., Tatham, R.L. & Black, W.C. (1998), *Multivariate Data Analysis*  
46 (5e), New Jersey: Prentice-Hall International, Inc.  
47  
48 Hall, P. A., & Gingerich, D.W. 2009. Varieties of Capitalism and Institutional  
49 Complementarities in the Political Economy: An Empirical Analysis. *British Journal of*  
50 *Political Science*, 39(03): 449-482.  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60



- 1  
2  
3 Hall, P.A. & Soskice, D. 2001 Varieties of Capitalism The Institutional Foundations of  
4 Comparative Advantage. Oxford University Press  
5  
6 Hillman, A. J., Shropshire, C. & Cannella, AA. 2007. Organizational predictors of women on  
7 corporate boards. *Academy of Management Journal* 50(4): 941-952.  
8  
9 Hillman, A.J., Cannella, A.A and Paetzold, R.L. 2000. The Resource Dependence Role of  
10 Corporate Directors: Strategic Adaptation of Board Composition in Response to  
11 Environmental Change. *Journal of Management Studies* 37(2):235 - 256  
12  
13 Hillman, A.J., Cannella, A.A. and Harris, I.C. 2002. Women and Racial Minorities in the  
14 Boardroom: How Do Directors Differ? *Journal of Management* 28(6): 747-763.  
15  
16 Hofstede, G. 1983. National cultures in four dimensions: A research-based theory on cultural  
17 differences among nations. *International Studies of Management & Organizations* 13(1-  
18 2):46-74  
19  
20 Hoel, M. 2008. The quota story: Five years of change in Norway, in Vinnicombe, S., Singh,  
21 V., Burke, R., Bilimoria, D., and Huse, M. (eds) *Women on Corporate Boards of Directors:*  
22 *International Research and Practice*, Cheltenham, Edward Elgar, pp. 79-87  
23  
24 Houseman, S. N. & Abraham, K. G. 1993. Female Workers as a Buffer in the Japanese  
25 Economy. *The American Economic Review*, 83(2): 45-5  
26  
27 Huse, M., Nielsen, S., & Hagen, I. 2009. Women and Employee-Elected Board Members,  
28 and Their Contributions to Board Control Tasks, *Journal of Business Ethics*, 89: 581-597.  
29  
30 Jackson, G. and R. Deeg. 2008. Comparing capitalisms: understanding institutional diversity  
31 and its implications for international business. *Journal of International Business Studies*  
32 39(4): 540-561.  
33  
34 Javidan, M., & House, R. J. 2001. Cultural acumen for the global manager: Lessons from  
35 project GLOBE. *Organizational Dynamics*, 29, 289-305.  
36  
37 Johannisson, B. & Huse, M. 2000. Recruiting outside board members in the small family  
38 business: an ideological challenge. *Entrepreneurship & Regional Development* 12(4):353-  
39 378.  
40  
41 Kang, H., M. Cheng, S.J. Gray. 2007. Corporate Governance and Board Composition:  
42 diversity and independence of Australian boards. *Corporate Governance: An International*  
43 *Review* 15(2): 194-207  
44  
45 Khanna, T., Kogan, J.& Palepu, K. 2006. Globalization and similarities in corporate  
46 governance: a cross-country analysis. *Review of Economics and Statistics*, 88(1):69-90  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

- 1  
2  
3 Kostova, T., Roth, K., & Dacin, M.T. 2008. Institutional Theory in the Study of Multinational  
4 Corporations: A Critique and new Directions. *Academy of Management Review*, 33(4),  
5 994 – 1006.  
6  
7  
8 La Porta, R., Lopez-de-Silanes, F., Shleifer, A., Vishny, R., 1998. Law and Finance. *Journal*  
9 *of Political Economy* 106, 1113-1155.  
10  
11 Lee, K., Peng, M.W & Lee, K. 2008. From diversification premium to diversification  
12 discount during institutional transitions . *Journal of World Business* 43(1):47-65  
13  
14 Leksell, L & Lindgren, L. 1982. The Board of Directors in Foreign Subsidiaries. *Journal of*  
15 *International Business Studies*. 13(1): 27-38  
16  
17 Levinson, K. 2001. Employee Representatives on Company Boards in Sweden. *Industrial*  
18 *Relations Journal*, 32(3): 264-274.  
19  
20 Lundvall, A., Johnson, B., Anderson, E., Dalum, B. 2002. National systems of production,  
21 innovation and competence building. *Research Policy*, 31(2): 213-231  
22  
23 Mandel, H. & Shalev, M 2009. Gender, Class, and Varieties of Capitalism. *Social Politics:*  
24 *International Studies in Gender, State and Society* 16(2):161-181.  
25  
26  
27 McGregor, J. 2003. Girl Power: double jeopardy or diversity in action behind boardroom  
28 doors in New Zealand? *Women in Management Review* 18(7):369-375  
29  
30  
31 Miyajima, H. 2009. Increasing overseas investors & corporate governance in Japan. *Japan*  
32 *Spotlight* (May/June).  
33  
34  
35 Nelson, T. and Levesque, L. L. 2007. The Status of Women in Corporate Governance in  
36 High-Growth, High-Potential Firms. *Entrepreneurship: Theory & Practice*, Blackwell  
37 Publishing Limited. 31(2):209-232.  
38  
39  
40 Parboteeah, K.P., Hoegl, M & Cullen, JB. 2008. Managers' gender role attitude: a country  
41 institutional approach. *Journal of International Business Studies* 39(5):795-813  
42  
43  
44 Pedersen, T., & Thomsen, S. 1999. Business Systems and Corporate Governance.  
45 *International Studies of Management & Organization*, 29(2): 43.  
46  
47  
48 Peterson, C. & J. Philpot. 2007. Women's Roles on U.S. Fortune 500 Boards: Director  
49 Expertise and Committee Memberships. *Journal of Business Ethics*, 72: 177-196  
50  
51  
52 Pfeffer, J. 1973. Size, Composition, and Function of Hospital Boards of Directors: A Study of  
53 Organization- Environment Linkage. *Administrative Science Quarterly* 18(3):349-364.  
54  
55  
56 Redding, G. 2005. The thick description and comparison of societal systems of capitalism.  
57 *Journal of International Business Studies*. 36(2): 123-155  
58  
59  
60 Reynolds, T.H. and Flores, A.A. 1989. Foreign Law: Current Sources of Codes and Basic  
Legislation in Jurisdictions of the World. FB Rothman

- 1  
2  
3 Rose, C. 2007. Does female board representation influence firm performance? The Danish  
4 evidence. *Corporate Governance: An International Review* 15(2): 404-413  
5  
6  
7 Ross-Smith, A. and Bridge, J. 2008. Glacial at best: Women's progress on corporate boards in  
8 Australia, in Vinnicombe, S., Singh, V., Burke, R., Bilimoria, D., and Huse, M. (eds)  
9 Women on Corporate Boards of Directors: International Research and Practice,  
10 Cheltenham, Edward Elgar, pp.101-119  
11  
12  
13 Ruigrok, W., Peck, S., and Tacheva, S. 2007. Nationality and Gender Diversity on Swiss  
14 Corporate Boards. *Corporate Governance: An International Review*, 15(4), 546-557.  
15  
16  
17 Sealy, V., Singh, V., and Vinnicombe, S. 2007. The Female FTSE Report 2007. Cranfield.  
18  
19 Sheridan, A. 2002. What you know and who you know; "successful" women's experiences of  
20 accessing board positions. *Career Development International*, 7(4): 203-10  
21  
22  
23 Sheridan, A. & Milgate, G. 2005. Accessing Board Positions: a comparison of female and  
24 male board members' views. *Corporate Governance: An International Review* 13(6):847-  
25 855  
26  
27  
28 Shire, K., & Gottschall, K. 2007. Understanding Employment Systems from a Gender  
29 Perspective - Pitfalls and Potentials of New Comparative Analytical Frameworks, ZeE-  
30 Arbeitpapier: 1-39. Bremen: Zentrum für Sozialpolitik.  
31  
32  
33 Singh, V. 2007. Ethnic diversity on top corporate boards: a resource dependency perspective.  
34 *International Journal of Human Resource Management* 18(12): 2128-2146  
35  
36  
37 Singh, V. & Vinnicombe, S. 2004. Why so few women in top UK boardrooms? Evidence and  
38 theoretical explanations. *Corporate Governance: An International Review*, 12(4):479-488  
39  
40  
41 Singh, V., & Vinnicombe, S. 2006. Identifying the new generation of women directors. The  
42 female FTSE report 2006. Cranfield  
43  
44  
45 Singh, V., Vinnicombe, S. & Johnson P. 2001. Women directors on top UK boards.  
46 *Corporate Governance: An International Review*, 9(3), 206-216.  
47  
48  
49 Soares, R., Carter, N.M & Combopiano, J. 2009. 2009 Catalyst Census: Fortune 500 Women  
50 Board Directors. [http://www.catalyst.org/publication/357/2009-catalyst-census-fortune-](http://www.catalyst.org/publication/357/2009-catalyst-census-fortune-500-women-board-directors)  
51 [500-women-board-directors](http://www.catalyst.org/publication/357/2009-catalyst-census-fortune-500-women-board-directors) April 20 2010  
52  
53  
54 Soskice, D. 2005. Varieties of capitalism and cross-national gender differences. *International*  
55 *studies in gender state and society*, 12(2): 170-179.  
56  
57  
58 Szabo, E, Brodbeck, C, Den Hartog, N, Reber, G, Weibler, J, Wunderer, R. 2002. The  
59 Germanic Europe: where employees have a voice. *Journal of World Business* 37(1): 55-68.  
60  
Terjesen, S. & Singh, V. 2008. Female Presence on Corporate Boards: A Multi-Country  
Study of Environmental Context, *Journal of Business Ethics*, 83(1): 55-63.

- 1  
2  
3 Terjesen, S, Sealy, R, and Singh, V. 2009. Women Directors on Corporate Boards: A Review  
4 and Research Agenda. *Corporate Governance: An International Review* 17(3):320-33  
5  
6  
7 Talmud, I. & Izraeli, D. N. 1999. The Relationship between Gender and Performance Issues  
8 of Concern to Directors: Correlates or Institution? *Journal of Organizational Behavior*,  
9 20(4): 459-474.  
10  
11  
12 Toomey, C. 2008. Quotas for women on the board: do they work? *Times* June 8 2008  
13  
14 Webb, J. 2009. Gender and Occupation in Market Economies: Change and restructuring since  
15 the 1980s. *Social politics : international studies in gender state and society*, 16(1): 82-110.  
16  
17  
18 Weimer, J. & Pape, J.C. 1999. A taxonomy of systems of corporate governance. *Corporate*  
19 *Governance* 7(2): 152-166  
20  
21  
22 Welter, F. 2006. Women's entrepreneurship in Germany: progress in a still traditional  
23 environment. In Brush, C., and Carter, N., Gatewood., and Hart, M. (Eds), *Growth-oriented*  
24 *Women Entrepreneurs and Their Businesses: A global research perspective*, Edward Elgar  
25 Publishing, Boston MA  
26  
27  
28 Whitley, R. 1992. *European Business Systems: Firms and markets in their national contexts*.  
29 Sage Publications  
30  
31  
32 Whitley, R. 1998. Internationalization and varieties of capitalism: the limited effects of cross-  
33 national coordination of economic activities on the nature of business systems. *Review of*  
34 *International Political Economy*, 5: 445-481.  
35  
36  
37 Whitley, R. 1999. *Divergent Capitalisms The Social Structuring and Change of Business*  
38 *Systems*. Oxford University Press  
39  
40  
41 Yafeh, Y. 2000. *Corporate Governance in Japan*. *Oxford Review of Economic Policy*, 16(2):  
42 74-84.  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
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TABLE 1

: The classification of countries to institutional systems

Table 1: Typologies of National Business Environments

Hall and Soskice (2001)		Whitley (1991, 1999)		La Porta et al., (1998)		Weimar & Pape (1999)		Gupta et al., (2002)				
Grouping	Countries	Grouping	Countries	Grouping	Countries	Grouping	Countries	Grouping	Countries			
Liberal Market Economies	United States	Fragmented Business System	Argentina	English-Origin Countries	Australia	Anglo-Saxon Countries	United States	Anglo Cultures	United Kingdom			
	United Kingdom		Brazil		Canada		United Kingdom		United States			
	Ireland		Chile		Hong Kong		Canada		Australia			
	Canada		Denmark		India		Australia		South Africa			
	Australia		Mexico		Ireland	Germany	Canada					
	New Zealand		Poland		Israel	Netherlands	New Zealand					
Coordinated Market Economies	Japan		South Africa		Kenya	Germanic Countries	Switzerland	Latin European Cultures	Ireland	Nordic European Cultures	Ireland	
	Netherlands		Hong Kong		Malaysia		Sweden		Israel			
	Belgium		Turkey		New Zealand		Austria		Italy			
	Denmark		Portugal		Nigeria		Denmark		Portugal			
	Sweden	Italy	Pakistan	Norway	Spain							
	Finland	Belgium	Singapore	Finland	France							
	Germany	Australia	South Africa	France	Finland							
	Switzerland	Canada	Sri Lanka	Italy	Sweden							
	Norway	Cyprus	Thailand	Spain	Denmark							
	Austria	Netherlands	United Kingdom	Belgium	Germany							
Other countries	Israel	New Zealand	United States	Latin Countries	Japan	Germanic European Cultures	Austria	Eastern European Cultures	Austria			
	Singapore	UK	Zimbabwe		Japan		Switzerland					
	Taiwan	US	Argentina		French-Origin Countries		Argentina		Latin American Cultures	Netherlands	Sub-Saharan African Cultures	Netherlands
	SKorea	Spain	Belgium				Belgium			Venezuela		
	France	Bulgaria	Brazil				Brazil			Ecuador		
	Italy	China	Chile				Chile			Mexico		
	Spain	Egypt	Columbia			Columbia	B Salvador					
		France	Ecuador			Ecuador	Columbia					
		Greece	Egypt			Egypt	Guatemala					
		Hungary	France			France	Bolivia					
	Malaysia	Greece	Greece	Brazil								
	Russia	Indonesia	Indonesia	Argentina								
	Czech Republic	Italy	Italy	Namibia								
	Austria	Jordan	Jordan	Zambia								
	Finland	Mexico	Mexico	Zimbabwe								
	Germany	Netherlands	Netherlands	Nigeria								
	Ireland	Peru	Peru	Qatar								
	Israel	Philippines	Philippines	Morocco								
	Norway	Portugal	Portugal	Turkey								
	Switzerland	Spain	Spain	Egypt								
	Sweden	Turkey	Turkey	Kuwait								
	Highly Coordinated Business Systems	Japan	Uruguay	German-Origin Countries	Uruguay	Arab Cultures	India	Southern Asian Cultures	India			
			Venezuela		Germany		Indonesia					
			Austria		Japan		Philippines					
			Germany		South Korea		Malaysia					
			Japan		Switzerland		Thailand					
			Taiwan		Taiwan		Iran					
			Denmark		Denmark	Taiwan						
			Finland		Finland	China						
			Norway		Norway	Hong Kong						
			Sweden		Sweden	Japan						
					South Korea							
					Singapore							

TABLE 2

## Cross-country variation in the percentage of board seats held by female directors

<i>Percentage number of female board directors 2006</i>			
Country	Female board directors %	Country	Female board directors %
Argentina	6.52%*	Latvia	21.00%
Australia	10.90%	Lichtenstein	8.33%
Austria	6.00%	Lithuania	17.00%
Belgium	5.78%	Luxembourg	1.00%
Brazil	8.73%*	Malaysia	4.00%
Bulgaria	21.00%	Malta	4.00%
Canada	8.70%	Mexico	3.35%*
Chile	1.01%*	Netherlands	4.88%
China	12.50%	New Zealand	7.13%
Cyprus	7.00%	Norway	32.00%
Czech Republic	8.00%	Poland	10.00%
Denmark	12.71%	Portugal	7.00%
Egypt	1.00%	Romania	13.00%
Estonia	15.00%	Russia	3.13%
Finland	19.00%	Singapore	0.00%
France	6.98%	Slovak Republic	10.00%
Germany	6.46%	Slovenia	21.00%
Greece	6.31%	South Africa	11.50%
Hong Kong	5.88%	Spain	4.38%
Hungary	14.00%	Sweden	17.37%
Iceland	6.00%	Switzerland	6.37%
India	3.86%	Turkey	7.00%
Ireland	4.04%	UK	8.10%
Israel	13.36%	Ukraine	16.67
Italy	2.63%	US	15.12%
Japan	0.00%		

*BoardEx provided the data for the following countries: Australia, Belgium, China, Denmark, Egypt, France, Germany, Greece, Hong Kong, Ireland, Israel, Italy, Japan, Lichtenstein, Malaysia, Netherlands, New Zealand, Russia, Singapore, Spain, Sweden, Switzerland, UK and Ukraine. The following countries rely on numbers from the European Commission: Austria, Bulgaria, Cyprus, Czech Republic, Estonia, Finland, Hungary, Iceland, Lithuania, Luxembourg, Malta, Poland, Portugal, Romania, Slovak Republic, Slovenia and Turkey. Numbers for India, Norway, Argentina, Brazil, Chile and Mexico come from our own self-extracted dataset. Spencer Stuart provided data for the following countries: Canada and South Africa. Catalyst provided numbers for the US. \* Latest number is from 2005*

TABLE 3

## Descriptive statistics and correlation coefficients

	Mean	Standard Deviation	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
1. % Women on the board	7.74	5.54	-																										
2. Liberal Market Economy	.16	.37	.52	-																									
3. Coordinated Market Economy	.22	.42	.08	-.23	-																								
4. English La Porta	.28	.45	-.05	.70	-.33	-																							
5. French La Porta	.27	.44	-.37	-.27	-.09	-.38	-																						
6. German La Porta	.09	.29	-.13	-.14	.60	-.20	-.19	-																					
7. Scandinavian La Porta	.09	.28	.32	-.14	.58	-.19	-.19	-.10	-																				
8. Anglo-Saxon Weimar and Pape	.11	.31	.13	.80	-.19	.57	-.21	-.11	-.11	-																			
9. Germanic Weimar and Pape	.17	.38	-.16	-.20	.86	-.29	-.15	-.45	-.67	-.16	-																		
10. Latin Weimar and Pape	.09	.28	-.19	-.14	.02	-.19	.51	-.10	-.09	-.11	-.14	-																	
11. Japanese Weimar and Pape	.03	.16	-.15	-.07	.31	-.10	-.10	-.52	-.05	-.06	-.08	-.05	-																
12. Collaborative	.17	.38	.15	-.05	-.58	-.03	-.28	-.45	.47	-.16	.70	-.14	-.08	-															
13. Compartmentalized	.20	.40	.00	.74	-.13	.48	-.05	-.16	-.15	.71	-.08	.04	-.08	-.22	-														
14. Co-ordinated Industrial District	.04	.20	-.16	-.09	.14	-.13	.35	-.07	-.07	-.07	-.10	.69	-.04	-.10	-.10	-													
15. Fragmented	.22	.41	-.16	-.23	-.16	-.08	.40	-.17	.02	-.19	-.10	-.16	-.09	-.24	-.26	-.11	-												
16. State Organized	.15	.36	-.01	-.18	-.22	-.16	.07	-.13	-.13	-.15	-.19	.09	-.07	-.19	-.21	-.09	-.22	-											
17. Highly Coordinated	.03	.16	-.15	-.07	.31	-.10	-.10	.52	-.05	-.06	-.08	-.05	1.00	-.08	-.08	-.04	-.09	-.07	-										
18. Anglo Cultures (GLOBE)	.16	.37	.05	1.000	-.23	.70	-.27	-.14	-.14	.80	-.20	-.14	-.07	-.05	.74	-.09	-.23	-.18	-.07	-									
19. Latin Europe (GLOBE)	.11	.31	-.15	-.15	-.19	-.06	.40	-.11	-.11	-.12	-.16	.64	-.06	.03	.00	.27	-.02	.05	-.06	-.15	-								
20. Nordic Europe (GLOBE)	.06	.25	.25	-.12	.50	-.16	-.16	-.08	.86	-.09	.58	-.08	-.04	.34	-.13	-.06	.07	-.11	-.04	-.12	-.09	-							
21. German Europe (GLOBE)	.09	.28	-.11	-.14	-.58	-.19	-.01	.70	-.09	-.11	.67	-.09	-.05	.47	.04	-.07	-.16	-.13	-.05	-.14	-.11	-.08	-						
22. Eastern Europe (GLOBE)	.09	.29	.09	-.14	-.17	-.20	-.02	-.10	-.10	-.11	-.15	-.10	-.05	-.15	-.16	-.07	.01	.42	-.05	-.14	-.11	-.08	-.10	-					
23. Latin American (GLOBE)	.06	.25	-.16	-.12	-.14	-.16	.44	-.08	-.08	-.09	-.12	-.08	-.04	-.12	-.13	-.06	.50	-.11	-.04	-.12	-.09	-.07	-.08	-.08	-				
24. South Asia (GLOBE)	.03	.18	-.15	-.08	-.10	.29	-.11	-.06	-.06	-.06	-.08	-.06	-.03	-.08	-.09	-.04	-.10	.18	-.03	-.08	-.06	-.05	-.06	-.06	-.05	-			
25. Confucian Asia (GLOBE)	.09	.28	-.21	-.14	.07	.11	-.19	.24	-.09	-.11	-.14	-.09	.54	-.14	-.15	-.07	.00	.09	.54	-.14	-.11	-.08	-.09	-.10	-.08	-.06	-		
26. Arab (GLOBE)	.01	.09	-.03	-.04	-.05	-.06	.15	-.03	-.03	-.03	-.04	-.03	-.02	-.04	-.04	-.02	-.05	.22	-.02	-.04	-.03	-.02	-.03	-.03	-.02	-.02	-.03	-	
27. Sub-Saharan Africa (GLOBE)	.03	.16	.05	-.07	-.09	.27	-.10	-.05	-.05	-.06	-.08	-.05	-.03	-.08	-.08	-.04	.32	-.07	-.03	-.07	-.06	-.04	-.05	-.05	-.04	-.03	-.05	-.02	

N = 257

Correlation &gt; |.111| are significant at p = .05

**TABLE 4**  
**Regression results (Dependent variable: Percentage women on the corporate board of directors)**

Independent variables	Dependent Variable = Percentage women on corporate boards					
	Model (1)	Model (2)	Model (3)	Model (4)	Model (5)	Model (6)
<b>CONSTANT</b>	5.28 (0.86)	2.62 (1.26)	3.19 (0.88)	7.02 (1.10)	5.75 (0.82)	3.50 (0.89)
<b>2001</b>	0.49 (1.42)	0.50 (1.51)	0.58 (0.92)	0.74 (1.53)	0.22 (1.22)	-0.07 (1.02)
<b>2002</b>	1.37 (1.38)	1.86 (1.48)	1.34 (0.89)	1.25 (1.49)	1.13 (1.21)	1.39 (1.00)
<b>2003</b>	3.51 (1.21)**	2.43 (1.44)	1.74 (0.86)*	2.05 (1.44)	1.87 (1.13)	2.29 (0.94)*
<b>2004</b>	3.25 (1.17)**	2.51 (1.39)	2.10 (0.84)*	2.78 (1.41)	2.45 (1.08)*	2.32 (0.91)*
<b>2005</b>	4.11 (1.18)**	3.82 (1.46)**	3.07 (0.86)**	3.83 (1.44)**	3.48 (1.11)**	3.01 (0.95)**
<b>2006</b>	5.13 (1.19)**	4.62 (1.41)**	3.85 (0.087)**	4.54 (1.44)**	4.23 (1.12)**	3.44 (0.95)**
<b>2007</b>	5.88 (1.27)**	6.00 (1.54)**	5.02 (0.95)**	6.14 (1.57)**	4.72 (1.21)**	4.65 (0.99)**
<b>Liberal Market Economy</b>		3.58 (1.10)**				
<b>Coordinated Market Economy</b>		3.64 (1.05)**				
<b>Other Economies</b>						
<b>English Origin Law La Porta et al.</b>			3.23 (0.80)**			
<b>French Origin Law La Porta et al.</b>			-0.49 (0.79)			
<b>Germanic Origin Law La Porta et al.</b>						
<b>Scandinavian Origin Law La Porta et al.</b>			8.36 (0.93)**			
<b>Germanic Law Weimar and Pape</b>						
<b>Latin Law Weimar and Pape</b>				-5.21 (0.96)**		
<b>Anglo-Saxon Law Weimar and Pape</b>				0.82 (0.93)		
<b>Japanese Law Weimar and Pape</b>				-7.96 (3.14)*		
<b>Fragmented</b>					-1.09 (0.82)	
<b>Coordinated Industrial District</b>					-4.25 (1.24)**	
<b>Compartmentalized</b>						
<b>State Organised</b>					1.28 (0.99)	
<b>Collaborative</b>					1.49 (0.81)	
<b>Highly coordinated</b>					-6.52 (3.12)*	
<b>Anglo Globe</b>						3.18 (0.79)**
<b>Latin Europe Globe</b>						-0.48 (0.86)
<b>Germanic Europe Globe</b>						
<b>Nordic Europe Globe</b>						7.59 (0.96)**
<b>Eastern Europe Globe</b>						4.99 (0.97)**
<b>Latin America Globe</b>						0.09 (1.08)
<b>South Asia Globe</b>						-2.13 (1.50)
<b>Confucian Asia Globe</b>						-4.21 (2.47)
<b>Sub-Saharan Globe</b>						3.78 (1.34)**
<b>R-Squared</b>	13.1%	21.1%	54.4%	38.0%	25.7%	51.7%
<b>R-Squared Adjusted</b>	10.7%	15.9%	51.9%	32.5%	21.2%	47.4%
<b>Δ in R-Squared relative to model (1)</b>		8.0%	41.3%	24.9%	12.6%	38.6%
<b>No. of Observations</b>	257	144	194	124	210	185

Notes: t-values are provided in parenthesis, significance levels: †p<0.10; \* p<0.05; \*\* p<0.01; \*\*\*p<.001. Variable definitions: Liberal Market Economy, Coordinated Market Economy and Other use dummy variables 1 or 0 to indicate which category Hall and Soskice (2001) assigned to each country. English origin law, French origin law, Germanic origin law and Scandinavian origin law apply a dummy variable of 1 or 0 to indicate country classification as applied by La Porta et al. (1999). Latin law, Anglo-Saxon law, Germanic law and Japanese law use the same dummy variable for ascribing categories as defined by Weimar and Pape (1999). Reflecting Whitley (1999) Fragmented, Coordinated Industrial District, Compartmentalised, State Organised, Collaborative and Highly coordinated business systems were applied to the country set by the authors of this article based on research as outlined in the methods section. Dummy variables of 1 and 0 were used.



### Regression results (Dependent variable: Percentage women on the corporate board of directors)

	Dependent Variable = Percentage women on corporate boards				
	Model (7)	Model (8)	Model (9)	Model (10)	Model (11)
Independent variables					
<b>CONSTANT</b>	1.80 (1.17)	3.22 (0.85)	6.82 (1.02)	7.02 (0.98)	3.65 (0.80)
<b>2001</b>	0.73 (1.47)	0.57 (1.05)	0.28 (1.44)	-0.52 (1.55)	0.32 (1.03)
<b>2002</b>	1.20 (1.43)	1.04 (1.02)	0.77 (1.40)	0.14 (1.50)	0.79 (1.00)
<b>2003</b>	1.97 (1.37)	1.70 (-0.98)	1.51 (1.34)	0.81 (1.44)	1.45 (0.96)
<b>2004</b>	2.14 (1.35)	2.08 (0.96)*	2.16 (1.31)	1.49 (1.41)	2.10 (0.94)*
<b>2005</b>	3.41 (1.37)*	3.14 (0.98)**	2.95 (1.34)*	2.25 (1.44)	2.89 (0.93)**
<b>2006</b>	3.47 (1.37)*	3.20 (0.98)**	3.01 (1.34)*	2.31 (1.44)	2.95 (0.96)**
<b>2007</b>	6.50 (1.44)**	5.95 (1.03)**	6.04 (1.45)**	5.21 (1.51)**	5.71 (1.01)**
<b>Liberal Market Economy</b>	6.26 (1.03)**				
<b>Coordinated Market Economy</b>	4.40 (0.96)**				
<b>Other Economies</b>					
<b>English Origin Law La Porta et al.</b>		5.02 (0.75)**			
<b>French Origin Law La Porta et al.</b>		-0.92 (0.76)			
<b>Germanic Origin Law La Porta et al.</b>					
<b>Scandinavian Origin Law La Porta et al.</b>		7.79 (0.84)**			
<b>Germanic Law Weimar and Pape</b>					
<b>Latin Law Weimar and Pape</b>			-4.68 (0.93)**		
<b>Anglo-Saxon Law Weimar and Pape</b>			1.52 (0.84)		
<b>Japanese Law Weimar and Pape</b>			-7.45 (2.76)**		
<b>Fragmented</b>				2.08 (1.54)	
<b>Coordinated Industrial District</b>				-5.98 (1.54)**	
<b>Compartmentalized</b>					
<b>State Organised</b>				-1.69 (1.54)	
<b>Collaborative</b>				0.91 (0.91)	
<b>Highly coordinated</b>				-7.32 (2.97)*	
<b>Anglo Globe</b>					4.73 (0.69)**
<b>Latin Europe Globe</b>					-1.45 (0.75)
<b>Germanic Europe Globe</b>					
<b>Nordic Europe Globe</b>					7.55 (0.78)**
<b>Eastern Europe Globe</b>					
<b>Latin America Globe</b>					
<b>South Asia Globe</b>					
<b>Confucian Asia Globe</b>					-4.25 (2.01)*
<b>Sub-Saharan Globe</b>					
<b>R-Squared</b>	37.5%	68.5%	41.7%	33.3%	70.2%
<b>R-Squared Adjusted</b>	31.9%	65.4%	35.9%	25.1%	66.9%
<b>Δ in R-Squared relative to model (1)</b>		31.1%	4.2%	-4.2%	32.8%
<b>No. of Observations</b>	110	110	110	110	110

Notes: t-values are provided in parenthesis, significance levels: †p<0.10; \* p<0.05; \*\* p<0.01; \*\*\*p<.001. Variable definitions: Liberal Market Economy, Coordinated Market Economy and Other use dummy variables 1 or 0 to indicate which category Hall and Soskice (2001) assigned to each country. English origin law, French origin law, Germanic origin law and Scandinavian origin law apply a dummy variable of 1 or 0 to indicate country classification as applied by La Porta et al. (1999). Latin law, Anglo-Saxon law, Germanic law and Japanese law use the same dummy variable for ascribing categories as defined by Weimar and Pape (1999). Reflecting Whitley (1999) Fragmented, Coordinated Industrial District, Compartmentalised, State Organised, Collaborative and Highly coordinated business systems were applied to the country set by the authors of this article based on research as outlined in the methods section. Dummy variables of 1 and 0 were used