# Shareholder and creditor legal rights and the outcome model of dividends

Julie Byrne	Thomas O'Connor <sup>*</sup>
Department of Economics, Finance and	Department of Economics, Finance and
Accounting	Accounting
National University of Ireland Maynooth,	National University of Ireland Maynooth,
Maynooth,	Maynooth,
Co. Kildare,	Co. Kildare,
Ireland.	Ireland.

#### Abstract

In a sample of 22,374 firms from 35 countries, we examine the role of creditor rights, shareholder rights, and corporate governance in determining corporate dividend policy. We find that, while all three variables play a significant role in determining both the likelihood and the dividend amount, the effect of country-level creditor rights dominate. In subsequent analysis, we show that the outcome model is most effective in countries with strong creditor rights. When creditor rights are weak, creditors demand, and firms consent to lower dividends. These findings show that creditors, and not shareholders, exert the greatest influence over corporate dividend policy.

JEL Classification: G15; G35.

Key Words: Dividend policy, creditor rights, shareholder rights, corporate governance.

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<sup>\*</sup> Contact author.

E-mail: Thomas.g.oconnor@nuim.ie

Telephone: +00 353 1 7086667.

## 1. Introduction

La Porta et al. (2000), and more recently Brockman and Unlu (2009), show how corporate dividend policy is influenced by the strength of the legal rights afforded to the providers of capital to corporations. The former relate shareholder rights, measured at the country-level to corporate dividend payout, and test two competing agency models of dividends, namely the outcome and substitution models. The outcome model, built on Jensen's (1986) free cash flow hypothesis suggests that shareholders can exercise their legal rights to force firms to pay dividends, hence reducing the agency costs associated with free cash flow. In turn, their ability to extract dividends from firms increases in the strength of their legal rights. Hence, dividends are an outcome of shareholder rights; the likelihood of paying a dividend, and the dividend amount increase in the strength of shareholder rights. The substitution model suggests otherwise. Under the predictions of the substitution model, firms use dividends as a bonding device. Firms substitute poor shareholder rights for high dividends. In doing so, firms establish a reputation for fair treatment of their minority shareholders, which in turn should lower their cost of capital, and relax their financing constraints. As a result, the incidence of paying a dividend, and the amount of the dividend paid should decrease in the strength of shareholder rights, since firms with the most severe agency problems are more likely to pay higher dividends.<sup>1</sup> La Porta et al. (2000) find support in favour of the outcome model of dividends; dividend payout increases in the level of shareholder rights. Subsequent work also shows that shareholder rights, now measured at the firm-level (i.e., corporate governance) also influences corporate dividend policy. With some exceptions, much of the empirical evidence in this strand of literature finds support in favour of the outcome model (Mitton, 2004; Bartram et al., 2008; and Jiraporn et al., 2011); the likelihood of paying a dividend, and the dividend amount tends to increase in the

<sup>&</sup>lt;sup>1</sup> In recent work, Chae et al. (2009) show that total payout (dividends and share repurchases) is higher in firms where corporate governance is strong and when external financing costs are small (and/or when there is no need for external financing). When corporate governance is strong, but sizable external financing constraints exist, total payout tends to be much lower. Their findings suggest that in determining payout policy, managers balance the benefit of paying dividends i.e., reduces free cash flow problem a la Jensen (1986) against the costs of external financing. Their results are thus in line with Rozeff (1982). This line of reasoning would then suggest that the tendency on the part of firms with sizable agency costs to pay higher dividends is likely to be very much a function of the joint effect of agency costs and external financing costs/need. Firms with sizable agency costs and external financing costs of the substitution hypothesis. Mansi and Wald (2010) highlight the prevalence of dividends as a bonding mechanism to guard against the free cash flow problem when firms face limitations on the use of debt, and when managerial ownership is low.

strength of shareholder rights i.e., corporate governance.<sup>2</sup> In turn, in an emerging market setting, Mitton (2004) shows that both shareholder rights at the country and firm-level matter. He finds that they tend to complement one another, but the country effect dominates. More recent work explores the link between creditor rights, shareholder rights (only measured at the country-level), and corporate dividend payout. Brockman and Unlu (2009) show that the likelihood of paying a dividend and the dividend amount increase in both shareholder and creditor rights. However, the latter effect dominates. Hence, creditors, and not shareholders exert the greatest influence on corporate dividend policy.

In this paper, we explore an issue left unresolved given the findings of La Porta et al. (2000), and Brockman and Unlu (2009). <sup>3</sup> It is as follows. We examine whether shareholders are, through their legal rights at the country and firm-level, able to extract large dividends from firms, when creditors are likely to demand otherwise. Creditors are likely to demand otherwise when their legal rights are weak. Brockman and Unlu (2009) suggest that creditors and not shareholders exert the greatest influence over corporate dividend payout. Hence, if creditors do exert the greatest influence over corporate dividend payout as Brockman and Unlu (2009) suggest, then the likelihood of, and the dividend amount is likely to be much lower given poor creditor rights, even when shareholder rights are strong. This suggests that the ability of shareholders with strong legal rights to extract dividends from firms is diminished when creditor rights are weak. In other words, *a priori*, we expect that the outcome model of dividends does not hold given poor creditor protection. In this paper, we test this proposition.

To do so, we form a panel of 22,374 firms from 35 countries to test the legitimacy of the outcome and substitution models of dividends and the role, and interaction of, creditor and shareholder

<sup>&</sup>lt;sup>2</sup> Jiraporn and Ning (2006), Chae et al. (2009), and Mitton (2004) in civil law countries only, all find support in favour of the substitution model of dividends. Jiraporn and Ning (2006) and Chae et al. (2009) use a sample of firms from the U.S. Mitton (2004) uses a sample of emerging market firms. Sawicki (2009) finds support in favour of the substitute model in pre-Asian crisis Asia, and the outcome model post-crisis. Interestingly, using the G-Index of Gompers et al. (2003) to measure the strength of corporate governance of U.S. firms, Jiraporn and Ning (2006) find in favour of the substitution model. Again using U.S. firms, but now using governance data from the Institutional Shareholder Services (ISS), Jiraporn et al. (2011) find evidence in favour of the outcome model. The ISS data is a much broader corporate governance measure than the G-Index, which in turn, likely explains the conflicting findings. Brockman and Unlu (2011) show that the substitution model prevails in countries where disclosure environments are opaque and the outcome model in countries where disclosure environments are transparent. <sup>3</sup> A second fundamental question that arises, but which we do not examine in this paper relates to instances in which shareholders are not well-protected, but creditors are. Brockman and Unlu (2009) show that dividend payout increases in both creditor and shareholder protection. However, what we don't know is whether creditors force firms to pay higher dividends (i.e., when creditor rights are strong), but when shareholder rights are weak. In unreported results, we do show that creditors do not use their legal rights to force firms to pay higher dividends when shareholder rights are weak. These findings are available from the corresponding author upon request. In closely related work, Shao et al. (2009) explore this issue in great detail in their paper.

rights, with the latter measured at both the firm (corporate governance) and country-level. In a series of pooled logit and Tobit regressions, we show that while creditor rights, shareholder rights and corporate governance all influence both the level and likelihood of dividend payouts, creditors exert the greatest influence. This finding is in line with Brockman and Unlu (2009). Next, and consistent with Mitton (2004), we find that shareholder rights, measured at the firm and country-level both influence corporate dividend payout, with the latter country-effect dominating. In turn, we show that both still matter, and the same hierarchy is maintained, even with the inclusion of creditor rights. However, when all three measures are included simultaneously, the effect of creditor rights dominates.<sup>4</sup> Second, and different to both Mitton (2004) and Brockman and Unlu (2009), we repeat our initial analysis, but now by level of creditor rights. Our findings are in line with our prior expectations. We find that the outcome model is most effective in countries with strong creditor rights. We find that the coefficient estimates on the shareholder rights measures (i.e., firm and country-level), are positive, large, and invariably statistically significant, when creditor rights are strong. In contrast, where creditor rights are weak, the coefficient estimates on the shareholder rights measures are much lower, sometimes negative, and at times statistically insignificant. These findings serve to further our understanding of the agency models of dividends. They suggest that the outcome model of dividends (i.e. shareholders with substantial legal rights can force firms to pay large dividends) does not hold given poor creditor rights. When creditors are poorly protected, they demand and firm's consent to lower dividends. In effect, creditors substitute poor legal standing with lower dividends.

These findings serve to reinforce the conclusions reached by Brockman and Unlu (2009). Creditors exert a much greater influence on dividend payout policy than do shareholders. The likelihood of, and the dividend amount are much lower when creditor rights are weak, regardless of the strength of shareholder rights. Furthermore, and in addition to the findings of Brockman and Unlu (2009), we show that creditor rights dominate shareholder rights, where shareholder rights are measured at the firm and country-level. In this regard, neither firm nor country-level shareholder rights are able to dominate creditor rights. In summary, our findings only serve to reinforce the dominant role played by creditors in influencing corporate dividend policy. Furthermore, our findings suggest that the findings of La Porta et

<sup>&</sup>lt;sup>4</sup> The exceptions occur when we use different measures of country-level shareholder rights. We return to this issue in much greater detail later in the paper.

al. (2000), and Mitton (2004), which do not account for the strength of creditor rights, are in retrospect, largely contingent on both shareholders *and* creditors enjoying substantial legal rights. Where the latter are not well-protected under the legal regime, the number of firms paying dividends, and the dividend amounts are much lower.

Finally, in a series of robustness tests, we show that our results are not sensitive to our measure of corporate governance. We extend the analysis originally undertaken by Mitton (2004). Using Credit Lyonnais Securities Asia (CLSA, 2001) corporate governance data for 304 emerging market firms, we show that the ability of shareholders to extract dividends from firms using their firm-level legal rights is contingent on strong shareholder *and* creditor rights.<sup>5</sup> When creditors do not enjoy sizable legal rights, the outcome model of dividends fails to hold, irrespective of the strength of shareholder rights. The likelihood and the dividend amount are highest when both shareholders *and* creditors enjoy sizable legal rights.

Our work extends the literature in a number of ways. First, we reinforce the findings of Brockman and Unlu (2009), and demonstrate the persuasive effect that creditors have on corporate dividend policy. Irrespective of the source of their legal rights (i.e. firm or country-level), shareholders exert much less of an influence over dividend policy than do creditors. When creditors do not enjoy sizable legal rights, they demand, and firms cater to lower dividend payouts. This finding is in line with a large volume of recent literature which highlights the influence of creditors in corporate finance decisions.<sup>6</sup> For example, creditors restrict firm-level investment (capital expenditures) when borrower credit quality deteriorates (see Nini et al. (2009)). In turn, Roberts and Sufi (2009) show that the ability to finance firm-level investment using debt financing is significantly reduced following debt covenant violations. Second, we show that creditors exert greater influence over country-level shareholder rights, and also firm-level legal rights (i.e. corporate governance). Our paper is most closely related to that of concurrent work undertaken by Shao et al. (2009), but differs in that we also include a measure for firm-specific shareholder rights (corporate governance). Unlike them, we show that ability of shareholders to extract large dividends from

<sup>&</sup>lt;sup>5</sup> Our sample size is not identical to that of Mitton (2004), but less than his.

<sup>&</sup>lt;sup>6</sup> In addition, Acharya et al. (2009) find that stronger creditor rights reduce corporate risk-taking. In contrast, using a sample of almost 2,400 banks, Houston et al. (2010) finds to the contrary; stronger creditor rights serve to promote greater bank risk-taking. Benmelech and Bergman (2011) explore the relationship between the strength of creditor rights and firm-level investment in the airline industry. They find that better creditor rights are associated with firms having younger more technologically advanced aircraft, and with larger fleet.

firms, where shareholder rights are measured at the firm (corporate) and country level, is largely diminished when creditor rights are weak. Their focus is very much on country-level shareholder rights. Finally, our work also contributes to the large literature which focuses on the factors that influence corporate dividend payout policy. For example, recent work highlights the importance of a firm's lifecycle, and cash-flow uncertainty in determining the likelihood of paying dividends, and the dividend amount (Grullon et al., 2002; De Angelo et al., 2006; Denis & Osobov, 2008; Brockman and Unlu, 2011; and Chay & Suh (2009)). Grullon et al. (2002), DeAngelo et al. (2006), Denis and Osobov (2008), and most recently Brockman and Unlu (2011) all highlight the importance of the earned/contributed capital mix and corporate dividend policy.7 Mature firms (i.e. with a high earned to total capital ratio) initiate and pay dividends, younger firms, typically with a small earned to total capital ratio do not. Hence, the likelihood of, and the dividend amount increase in the ratio of earned to total capital. In a similar vein, Chay and Suh (2009) highlight the influence of cashflow volatility on corporate dividend policy; the likelihood of paying a dividend and the size of the dividend is inversely related to cashflow volatility. In turn, they show that the effect of cashflow volatility on dividend policy is independent of the life-cycle effect; mature firms with highly volatile cashflow are, all else equal, less likely to pay a dividend. In this paper, we show that when creditor rights are weak, the number of dividend payers, and the size of the dividend is much lower, irrespective of the strength of shareholder rights.

The paper proceeds as follows. In section 2, we discuss our data. We present and discuss our empirical findings in section 3. Section 4 concludes.

# 2. Data and Variable Description

We test the validity of the outcome and substitution model of dividends using creditor rights and shareholder rights. Our approach differs from previous studies in that we examine the effect not only of shareholder rights at the country level, but also at the firm level. We begin our study by consulting the country files from Worldscope over the period from 1980 to 2007. From this original sample of countries, we follow La Porta et al. (2000) and eliminate firms trading in socialist countries i.e., China, Poland, and

<sup>&</sup>lt;sup>7</sup> The earned/contributed capital mix is also referred to as the life-cycle model of dividends. Grullon et al. (2002) and DeAngelo et al. (2006) find support in favour of the life-cycle model using U.S. firms. Brockman and Unlu (2011) and Denis and Osobov (2008) do likewise using U.S. and international firms.

Hungary, firms trading in Luxembourg, and firms with mandatory dividend policies i.e., Brazil, Chile, Colombia, Greece, and Venezuela. In turn, we eliminate all financial and utility firms using the general industry classification codes from Worldscope (Worldscope Field 06010), and firm-years with missing or abnormal data i.e. firms with negative net income, negative total assets, and negative cashflow. The general industry classification codes are (1) Industrial, (2) Utility, (3) Transportation, (4) Bank/Savings & Loan, (5) Insurance, and (6) Other Financial. Finally, we require all firms to have at least three years of financial data over the entire sample period. After imposing these data requirements, we lose all firms from Jordan, Peru, Philippines, Sri Lanka, and Zimbabwe. This leaves 22,374 firms from 35 countries, namely Argentina, Australia, Austria, Belgium, Canada, Denmark, Egypt, Finland, France, Germany, Hong Kong, India, Indonesia, Ireland, Israel, Italy, Japan, Korea (Republic), Malaysia, Mexico, Netherlands, New Zealand, Norway, Pakistan, Portugal, Singapore, South Africa, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, United Kingdom and the United States. The final sample covers the years from 1991 to 2007.

Using this sample of 35 countries, we source data on shareholder and creditor rights. We use five distinct measures of shareholder rights, namely the revised anti-director rights measure, the anti-self-dealing index, rule of law, legality, and investor protection. The revised anti-director rights measure is sourced from Djankov et al. (2008), and is a revised version of La Porta et al. (1998) original anti-director rights measure. The anti-self-dealing index is also sourced from Djankov et al. (2008). This measure captures the extent to which outsiders are protected from self-dealing (expropriation) by controlling insiders. Higher values of the index imply that outsiders are less likely to be expropriated by insiders, and thus imply greater protection. Legality is an aggregate index measuring the strength of the legal environment. It is constructed as the weighted average of five separate components, namely judicial efficiency, rule of law, corruption, risk of expropriation, and risk of contract repudiation as originally constructed by Berkowitz et al. (2003).<sup>8</sup> Investor Protection is taken from La Porta et al. (2006) and is calculated as the weighted average of disclosure, liability standards, and (original) anti-director rights, again using principal component analysis. Investor Protection ranges from a low of zero to a high of ten, where

<sup>&</sup>lt;sup>8</sup> Berkowitz et al. (2003) derive the Legality Index using principal components analysis. The weights are assigned as follows: Legality = 0.381 \* (Judicial Efficiency) + 0.503 \* (Rule of Law) + 0.503 \* (Corruption) + 0.347 \* (Risk of Expropriation) + 0.384 \* (Risk of Repudiation).

higher values correspond to better levels of investor protection. The rule of law variable sourced from La Porta et al. (1998) ranges from zero to ten, where higher values imply greater legal development. The creditor rights measure is taken from Djankov et al. (2007), and ranges from a low of zero to a high of four, where higher values represent greater levels of creditor protection. Panel B of Table 1 presents, by country, each measure of shareholder and creditor rights. In Appendix 1, we shed further light on the relationships between these measures by presenting some correlation estimates. Panel B and Appendix 1 suggest the following. Without exception, each of the five shareholder rights measures is positively correlated with creditor rights, which suggests that in countries, where shareholders are well protected, so too are creditors. However, the correlations are small, suggesting that there are exceptions. The most notable exceptions appear in both Canada and the United States. In both, shareholders tend to enjoy much greater protection than creditors. In both, the creditor rights score is just 1, compared to an antidirector rights score of 4 and 3, respectively. Similar relationships manifest in Mexico (creditor rights is 0 and anti-director rights is 3) and Pakistan (creditor rights is 1 and anti-director rights is 4). In this paper, we examine whether shareholders in these countries are able to extract large dividend payouts from firms, in spite of the fact that creditors are poorly protected. A priori, we expect that this may not be the case. Instead, we expect that dividend payouts (the amount and the likelihood of paying a dividend) are likely to be larger in countries where shareholders and creditors are both well protected in law e.g., in New Zealand (Anti-director rights and creditor rights is both 4), and Hong Kong (anti-director rights is 5 and creditor rights is 4). In contrast, dividend amounts, and the likelihood of paying a dividend are likely to be smaller in countries where shareholders are well protected, but where creditors are not necessarily so (e.g., Canada). In fact, a casual inspection of the summary payout measures outlined in Table 1 suggests that this is in fact the case. The likelihood and dividend amount is much larger in Hong Kong and New Zealand than they are in Canada. Later, we examine if this relation still holds when we control for firm, industry and time effects.

Second, the individual measures of shareholder rights are not necessarily positively related to one another. Anti-director rights, anti-self-dealing index, and investor protection tend to be positively correlated with one another. For example, the correlation coefficient between anti-director rights and antiself-dealing index is 0.676, and anti-director rights index and investor protection is 0.479. In turn, the anti-

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self-dealing index and investor protection are also positively correlated with one another (correlation coefficient is 0.625). For example, Hong Kong scores highly in all three measures (anti-director rights is 5, anti-self-dealing is 0.96, and investor protection is 0.851). Likewise, Italy scores poorly using all three measures (anti-director rights are 2, anti-self-dealing is 0.42, and investor protection is 0.197). There are exceptions. For example, Denmark scores highly using the anti-director rights measures (4), but score below the sample median using both the anti-self-dealing index and the level of investor protection. Similar observations occur in Korea, and to a lesser degree in Spain. Next, we find that the revised anti-director rights index is negatively correlated with both legality and rule of law. For example, India scores highly using revised anti-director rights, but much lower using legality and rule of law. The anti-self-dealing index is also negatively correlated with rule of law, and in common with the measure of investor protection, only marginally correlated with the legality measure. These measures have some potentially important implications for our analysis. Most importantly, they suggest that the outcome model of dividends may not hold using different measures of shareholder rights. We return to this issue in much greater detail later.

To measure the strength of corporate governance, we use total (annual) sales divided by total assets, which is a measure of how effectively the firm's assets are deployed to generate (sales) revenue. Ang et al. (2000) theorize that agency costs decrease as this ratio increases, hence the higher this ratio, the better-governed the firm. Singh and Davidson (2003), Bartram et al. (2008) (in an earlier version of their paper) and McKnight and Weir (2009) use variants of this agency cost measure in their studies.<sup>9</sup> In the last two columns of Panel A of Table 1, we report the average and variation (standard deviation) in agency costs in each country. All else equal, agency costs tend to be less severe in, amongst others, the Netherlands, Germany, Denmark, Sweden, and New Zealand. In contrast, they tend to be severe in Argentina and Egypt. The greatest variation in agency costs occurs in Australia and the Netherlands.<sup>10</sup> Because of potential concerns over our use of this governance proxy, later by way of robustness analysis, we employ the same Credit Lyonnais Securities Asia (CLSA) governance scores as those used by Mitton

<sup>&</sup>lt;sup>9</sup> These agency cost proxies are employed as dependent variables (industry-adjusted) in the McKnight and Weir (2009) study, while Bartram et al. (2008) employ the ratios as independent variables in corporate total payout regressions.

<sup>&</sup>lt;sup>10</sup> Klapper and Love (2004) show that the variation in corporate governance ratings (using CLSA corporate governance scores) decreases as country level investor protection increases.

(2004) to quantify the strength of corporate governance for a sample of 304 emerging market firms.<sup>11</sup> We provide a fuller discussion of these scores later.

We use three different dividend payout measures, namely dividends-to-earnings, measured as dividends per share divided by earnings per share, dividends-to-cashflow, measured as dividends per share divided by cashflow per share, and dividends-to-sales, measured as cash dividends (paid to common and preferred shareholders) divided by net sales. In this paper our focus is very much on extending the work of both Mitton (2004) and Brockman and Unlu (2009), who both examine the effect of shareholders and creditor rights on corporate dividend policy (as opposed to total payout policy).<sup>12</sup> All data is sourced from Worldscope. The dividend payer variable equals 1 if the firm pays a dividend in each year, and zero otherwise. In all regressions, we control for firm size, firm profitability and firm growth. Size is measured as the log of book assets in US\$, growth is the logarithmic one-year asset growth, and profitability is earnings before interest and taxation (EBIT) to book assets. All firm level variables are winsorized at the 1<sup>st</sup> and 99<sup>th</sup> percentiles.<sup>13</sup>

Our final sample is presented in Table 1. Panel A of Table 1 reports, by country, the number of firmyear observations (# Obs), the number of firms (# Firms), the number of dividend payers (# Dividend Payers), the percentage (%) of the entire sample of firms (in each country) that pay a dividend (% Dividend Payers), and the average over the entire sample period dividends-to-cashflow (%).<sup>14</sup> We deem a firm a dividend payer if the firm pays a dividend in any year of our sample period. Thus, even if a firm pays a dividend in only one of our sample years, the firm is deemed a dividend payer. In the remaining columns of Panel A, we report the average and standard deviation of agency costs (corporate governance).

<sup>&</sup>lt;sup>11</sup> In this paper we, like others (see Mitton, 2004), seek to examine the effect of the overall corporate governance status of the firm on corporate dividend payout policy. Others relate specific aspects of corporate governance to dividend payout. These include managerial/insider ownership (Rozeff, 1982; Hu & Kumar, 2004; and Farinha & Lopez-de-Foronda, 2009), institutional ownership (Short et al., 2002), foreign (institutional) ownership (Baba, 2009), ownership/control structures (Renneboog & Trojanowski, 2007; and Setia-Atmaja et al., 2009).

<sup>&</sup>lt;sup>12</sup> Others do concentrate on the agency models of total payout. These include Bartram et al. (2008) and Mansi and Wald (2010).

<sup>&</sup>lt;sup>13</sup> Ideally, we would like to have included some additional controls variables (e.g. retained earnings and total shareholders' equity as per DeAngelo et al., 2006; Denis and Osobov, 2008; and Brockman and Unlu, 2011. However, we do not have access to these variables, and some others, and thus, our set of control variables is limited to firm size, firm growth and firm profitability. Nonetheless, these are the same set of control variables that Mitton (2004) uses. Furthermore, our findings are in line with those of Shao et al. (2009) who include additional control variables that we cannot. Hence, we feel that it is unlikely that are findings would be affected by the inclusion of additional control variables.

<sup>&</sup>lt;sup>14</sup> Due to space constraints, we don't present the corresponding figures using dividends-to-sales and dividends-toearnings. These statistics are available from the corresponding author upon request.

The contribution of each country to our final sample varies significantly. Egypt contributes just 111 firm-year observations (corresponding to just 22 firms), while, non-surprisingly, the United States contributes the most (49,064 firm-year observations and 5,528 firms). Japan and the United Kingdom also contribute significantly to the final sample. Japan contributes 33,596 firm-year observations (3,498 firms), and the United Kingdom 13,672 firm-year observations (1,529 firms). Collectively, firms from the United States, Japan, and the United Kingdom contribute 96,332 firm-year observations (10,555 firms or 47.18% of the entire sample of firms).

The number and proportion of dividend payers also varies significantly by country. Again, Japan (3,266 dividend payers), the United States (1,166), and the United Kingdom (982) contribute the largest number of dividend payers. However, as a proportion of the entire sample in each country, the figures are very different. For example, almost all (93.37% (3,266/3,498)) Japanese firms pay a dividend at least once over the sample period. Similar proportions are observed in Egypt (90.91%), Finland (91.06%), India (91.11%), Pakistan (92.47%), and Thailand (86.45%). In contrast, only 64.22% (982/1,529) pay dividends in the United Kingdom. A much smaller proportion pays dividends in the United States (21.09% or 1,166/5,528).<sup>15</sup> For the entire sample of firms, 13,274 or 59.33% pay a dividend at some time over the sample period. The amount paid in dividends (relative to cashflow) also varies across countries. All else equal, dividend amounts are largest in Egypt (34.53%), and New Zealand (30.17%). Interestingly, in two countries where shareholders and creditors enjoy very different levels of legal protection, dividend payout tends to be much smaller. Median dividend payouts are just 3.74% and 3.84% in Canada and the United States, respectively. These figures are invariably in line with Brockman and Unlu (2009). In both countries, creditors enjoy much less legal protection than shareholders. The payout statistics imply that, all else equal, creditors influence corporate dividend payout, by mandating lower dividend payouts. In this regard, lower dividend payouts substitute for poor creditor rights.

<sup>&</sup>lt;sup>15</sup> Our proportions for the U.S. are very different to Brockman and Unlu (2009). In their sample, which covers the period from 1990 to 2006, 42.8% of U.S. firms pay a dividend, much larger than the 21.09% that we report. The explanation for the difference may lie with the databases used. Brockman and Unlu (2009) use Compustat, while we use Worldscope. The latter suffers from sample bias. Worldscope began its coverage with large firms, and over time expanded to include small firms. Smaller, less profitable, and/or fact growing companies typically pay little or no dividends (DeAngelo et al., 2006). Hence, the proportion of dividend payers using Worldscope data is likely to be much lower. See Partington (2009) for a discussion of this issue.

Finally, Appendix 1 contains correlation estimates using all of the main variables employed in the analysis. The firm-level control variables are excluded, but are related to each of the dividend payout measures as theory predicts i.e., consistent with the life-cycle model of dividends, large, profitable, and slow growing firms pay higher dividends (DeAngelo et al., 2006; and Denis & Osobov, 2008). The correlation coefficients suggest that, all else equal, the relationship between dividend payout and shareholder rights is contingent on how we measure shareholder rights at the country level. Dividend amounts increase in shareholder rights, when we use the revised anti-director rights and the anti-self-dealing index to measure shareholder rights. In contrast, using the other three measures of shareholder rights, the substitute model holds, namely dividend payouts decrease in shareholder rights. This is not surprising, since we found earlier that not all of these country-level measures of shareholder protection are positively correlated. Finally, corporate governance (using the ratio of sales-to-assets)<sup>16</sup> tends to be positively correlated with dividend payouts, a finding in line with Mitton (2004), Bartram et al. (2008), and more recently Adjaoud and Ben-Amar (2010), and Jiraporn et al. (2011).

# 3. Empirical Findings

#### a. Summary Statistics

We begin our analysis by examining summary payout statistics by level of shareholder and creditor rights. They are presented in Table 2. Specifically, we present three separate sets of summary statistics. In Panel A of Table 2, we present average and median payout ratios by level of shareholder rights. A firm belongs in the high shareholder rights grouping if it is domiciled in a country with above-median shareholder rights. The median figures are country (sample) medians. Here shareholder rights are measured at the country-level, and each of the five different measures of shareholder rights are used, namely the revised anti-director rights, the anti-self-dealing index, investor protection, legality, and the rule of law. Dividend payout is calculated using dividends-to-cashflow.<sup>17</sup>

<sup>&</sup>lt;sup>16</sup> The correlation between agency costs (sales-to-assets) and dividends to sales is negative as expected, given the construct of the agency cost variable. As a result, in all regressions where we include this agency cost variable, we use either dividends-to-cashflow or dividends-to-earnings.

<sup>&</sup>lt;sup>17</sup> The results are qualitatively the same when we use dividends-to-earnings and dividends-to-cashflow. These results are available from the corresponding author upon request.

A priori, we expect that, all else equal, if the outcome model holds, firms in countries with high shareholder rights pay higher dividends. When the revised anti-director rights index is used to measure shareholder rights, we find support in favour of the outcome model. Firms in countries where shareholders are well-protected (Revised ADR  $\geq$ =4) pay out dividends that are 5.34% higher than firms in countries where shareholder protection is weak (Revised ADR<4). When we consider the other measures of shareholder rights, we find support in favour of the substitution model. Firms in countries with low shareholder rights (i.e., anti-self-dealing index <0.47; investor protection<0.48; legality<15.55; and rule of law<8.57) pay between 1.3% and 6.33% higher dividends than firms in countries with high shareholder rights, depending on the measure of shareholder rights used.

We next consider how creditor rights affect the level of dividend payouts. The summary measures are presented in Panel B of Table 2. Here, we find evidence in support of the substitution model of dividends i.e., creditors substitute low dividends for low legal rights. This is in line with Brockman and Unlu (2009). We find that high creditor rights are associated with high dividends, while low creditor rights are associated with low dividends. The difference in dividend amounts between firms in countries where creditor rights are strong ranges from 0.44% to 13.91%.

Finally, in Panel C of Table 2, we examine how shareholder rights, measured at the firm level, impacts dividend payout. We classify firms by level of agency costs, and deem firms as low agency costs/high corporate governance if their sales-to-assets ratio is above the sample median. Given the construction of the agency cost variable, we only present summary payout measures using dividends-to-earnings and dividends-to-cashflow. Using both of these payout measures we find that firms with low agency costs/high corporate governance pay out higher dividends. The mean (median) firm with low agency costs/high corporate governance pays out 5.04% /14.77% more of its earnings as dividends than high agency cost/low corporate governance firms. Firms with low agency costs/high corporate governance also pay a greater amount of their cashflow in the form of dividends. These findings are consistent with Mitton (2004), Bartram et al. (2008), Jiraporn et al. (2011), and Adjaoud and Ben-Amar (2010) who all find that better-governed firms pay higher dividends.

In the remaining columns of Table 2, we present these summary statistics once more, this time using dividend payer, and not dividend amount as our measure of dividend payout. A firm is deemed to be a dividend payer if they pay a dividend at any point during the sample period. In line with Table 2 (Panel A), there is support for the outcome model of dividends when the revised anti-director rights index is used as the measure of shareholder rights, whereas the substitute model appears to hold when any other measure is used to proxy shareholder rights (Panel D). When creditor rights are considered (Panel E), we again find that dividend payouts are higher when creditor rights are strong (0.76 or 76% of firms pay a dividend at least once when creditor rights are strong versus 0.32 or 32% when creditor rights are weak). The results are statistically significant at the 1% level, and are in line with our earlier findings. Together (i.e. Panels B & E) suggest that in line with Brockman and Unlu (2009) the likelihood of paying a dividend, and the dividend amount increase in creditor rights.

Finally, Panel F presents the same statistics, but now by level of corporate governance. Firms with better corporate governance are more likely to pay a dividend. Almost 70% of the sample of high corporate governance sample of firms pays a dividend at least once. Only 51% of the low corporate governance sample does likewise. Together with the findings presented earlier in Table 2, this suggests that well-governed firms are more likely to pay a dividend, and when they pay a dividend, the amount of the dividend (as a % of cashflow or earnings) is also greater than that paid by poorly governed firms. These findings are in line with Jiraporn et al. (2011).<sup>18</sup>

In summary, our findings thus far suggest that both shareholders and creditors influence dividend payouts. In turn, shareholders are able to do so, by using their country and firm-level legal rights. Next, we take a first step towards examining whether shareholders, through their country and/or firm-level legal rights, or creditors exert the greatest influence on corporate dividend payouts. To do so, we begin by presenting some summary measures. They are presented in Table 3.

A priori, we would expect that if creditors exert the greatest influence on corporate dividend payout, dividend payouts (the amount and likelihood) would be lower in countries where creditor rights are poorly protected, irrespective of the strength of shareholder rights. In turn, dividend payouts are likely to be much larger in countries where shareholders and creditors are well-protected under the legal system.

<sup>&</sup>lt;sup>18</sup> Mitton (2004) only examines the amount of the dividend payout and not the likelihood of paying a dividend. Bartram et al. (2008) examine the likelihood of paying a dividend over repurchasing shares.

However, here, the ability of shareholders to extract larger dividends from firms rests not on their legal rights, but on the strength of creditor rights. Thus, the ability of shareholders to force firms to pay higher dividends is dependent on the strength of creditor rights in that country. Strong shareholder rights, but absent correspondingly high creditor rights is likely to results in lower dividend payouts. In short, dividend payouts are more an outcome of creditor, as opposed to shareholder rights.

In fact, this is exactly what we find. In every case, in countries where shareholder rights are high, dividend payouts are higher when creditor rights are strong. The difference in the level of dividend payouts is approximately 7% to 12% and the results are statistically significant at the 1% level. This likely indicates that creditors will allow higher dividends to be paid when they know they are well protected under the legal regime, but mandate lower dividend payouts when their legal protection is much weaker. Hence, they substitute lower creditor rights for lower dividends. The results also show that the effect of creditor rights dominates the effect of shareholder rights, since shareholders are not able to use their legal rights to force firms to pay higher dividends when creditors are not well protected.

The same results manifest when we measure shareholder rights at the firm-level (Panel B). Again, dividend payouts are larger when both shareholders and creditors enjoy considerable protection at the firm, and country level, respectively. When shareholder rights are strong (at the firm level), but creditor rights not so, dividend payouts tend to be much smaller, than in the case where creditor and shareholder rights are strong. The difference in dividend payouts in both instances is economically large and statistically significant. For instance, where corporate governance and creditor rights are strong, the average firm pays out 8.33% (14.70%) more of its cashflow (earnings) as dividends, than the average firm with similar governance, but who is domiciled in a country where creditors are low. Together, the findings from both Panels A and B suggest that the ability of shareholders to use their legal rights, be they country or firm-level, to force firms to pay higher dividends is very much contingent on the strength of creditor rights in that country. Creditors demand, and shareholders accept, probably reluctantly, lower dividends, when creditor legal protection is weak. Where both shareholder and creditor rights are strong, dividend payouts are much larger. As such, creditors consent to much larger dividends when both they and

shareholders are well-protected.<sup>19</sup> Next, we examine the extent to which creditors influence the propensity to pay dividends in the first instance.

In Panel C of Table 3 we report the propensity to pay statistics by the level of creditor rights and the interaction of creditor and shareholder rights. Shareholder rights are measured at the country and firm level. Again, and in line with Brockman and Unlu (2009), and with our earlier findings, we find support in favour of the substitution model. Once again, we find that, in countries where shareholder rights are strong, the likelihood of a firm paying a dividend is much higher when creditor rights are also strong. The difference is between 0.44 and 0.55, depending on which measure of shareholder rights is used. This supports our previous findings that firms are more likely to pay dividends if creditors know they are well protected. Finally, we examine how the interaction of shareholder rights (at the firm level) and creditor rights impact on the propensity to pay a dividend. Here again, we find that the strength of creditor rights impacts on the ability of shareholders to use their legal rights to force firms to pay higher dividends. When shareholders are well protected, the propensity to pay dividends is much higher than in instances where only shareholders are well protected. The difference is large (0.85 versus 0.42), and is statistically significant.

Our summary measures suggest that creditors exert the greatest influence over corporate dividend policy. The likelihood and the dividend amount are greater when both shareholders are creditors enjoy substantial legal rights. When creditors are not so well endowed with legal rights, dividend payouts tend to be much lower. Hence, creditors appear to substitute poor legal rights for lower dividends. Then, if anything, the outcome model of dividend, that is, the ability of shareholders to extract larger dividends from firms, relies crucially on both the strength of shareholder and creditor rights, and not shareholder rights, as originally suggested in the literature. In the next section, we examine whether these relations still hold, when we present some conditional estimates from a series of Tobit and logit regressions.

<sup>&</sup>lt;sup>19</sup> In turn, we also show in unreported results, that dividend payouts are lower when shareholder rights are weak and creditor rights strong, than in the case where both are well-protected. In this instance, creditors do not demand higher dividends despite the agency costs of equity associated with poor shareholder rights. The results are available from the corresponding author upon request.

#### b. Regression Estimates

In Table 4, we consider the relationship between legal country rights (shareholder and creditor), shareholder rights at the firm level (corporate governance) and the likelihood of paying a dividend. We present our results from pooled fixed effect logit regressions. The dependent variable is dividend payer, which is equal to one if the firm pays a dividend, and zero otherwise. In all regressions, we include firm-level controls (firm size, firm profitability, and firm growth opportunities), year and industry fixed effects (both unreported), and report the marginal effects, evaluated at the mean of each independent variable. Finally, we report z-statistics, which are robust to firm-level clustering (see Petersen (2009)).

We find all three of our primary explanatory variables to be statistically significant at the 1% level. When the revised ADR index is used as a measure of shareholder rights, the coefficient estimate is positive and significant. This result lends support to the outcome model of dividends and is in line with many others, including LaPorta et al. (2000), Mitton (2004), and Brockman and Unlu (2009). Shareholders can extract higher dividends from firms when they enjoy sizable legal rights. However, when any of the other four measures are used to proxy shareholder rights, we find a negative relationship between shareholder rights and the likelihood of paying a dividend. In columns 2-5, we find results that support the substitution model of dividends. The negative relationship between shareholder rights and dividend payer implies that the likelihood of paying a dividend is higher in countries with weak shareholder rights because dividends substitute for poorer shareholder rights. In turn, this suggests that the firms most likely to pay dividends are firms with the greatest need for external finance, as the substitution model suggests. Since shareholder legal protection is weak, firms bond to greater protection of their shareholders by paying dividends, which in turn substitute for poor shareholder protection. In this regard, firms use dividend payouts as a bonding mechanism for these firms.<sup>20</sup> By their very nature, better-governed firms do not require dividends to fulfil such a bonding role. Finally, the firm-level controls are statistically significant and of the correct sign. Consistent with the life-cycle model of dividends, large, profitable firms, with low growth opportunities are more likely to pay dividends. The marginal effects suggest that profitability, growth, and then size in that order exert the greatest influence on the decision of the firm to pay a dividend.

<sup>&</sup>lt;sup>20</sup> And improvements in corporate governance lessen the bonding role of dividends (O'Connor, 2006; and Adjaoud & Ben-Amar, 2010).

Next, we look at the effect of creditor rights on dividends. In line with the summary measures presented in Table 2, creditor rights have a positive and significant effect on whether a firm pays a dividend. Over the full sample, the marginal effects range from 0.040 and 0.178, depending on which measure of shareholder rights is used. The results are in line with Brockman and Unlu (2009). Finally, we show that corporate governance matters for whether a firm pays a dividend. The coefficient estimates are positive and statistically significant. These results are in line with Mitton (2004), Bartram et al. (2008), Adjaoud and Ben-Amar (2010), and Jiraporn et al. (2011) who all show that dividend payouts increase in the strength of corporate governance.<sup>21</sup> Furthermore, and like both Mitton (2004) and Bartram et al. (2008), shareholder rights at the country and firm-level influence corporate dividend payouts. When included simultaneously, both have explanatory power. However, invariably, country legal rights appear to dominate corporate legal rights.<sup>22</sup> Furthermore, we also find that although corporate governance matters, the creditor rights effect dominates the firm-level corporate governance effect. We also find that given the inclusion of creditor rights, shareholder rights at the country and firm-level still influence corporate dividend payout. Finally, and unlike Brockman and Unlu (2009), we don't find that dividend payouts are more sensitive to creditor rights than to shareholder rights. In fact, we find that opposite. Shao et al. (2010) find likewise in their paper.

One issue that may arise is that a large proportion of the firms included in the sample are from the U.S., the U.K. and Japan. Concerned that firms in these countries may be driving our results, we exclude these countries and re-run our regression analysis on a reduced sample. The results are presented in Panel B of Table 4. Again, we find all of our explanatory variables to be statistically significant at the 1% level. Now when either the ADR or the Anti-Self-Dealing index is used as a measure for shareholder rights, there is evidence in favour of the outcome model of dividends. When any of the other measures are used, there is support for the substitution model.

When considering the reduced sample, the coefficient estimates on the creditor rights variable, although still positive and significant, are lower. The difference may be because of the large number of

<sup>&</sup>lt;sup>21</sup> Mitton (2004) uses Credit Lyonnais Securities Asia (CLSA, 2001) corporate governance data; Bartram et al. (2008) use a series of agency cost measures, Jiraporn et al. (2011) uses governance data from the Institutional Shareholder Services (ISS), and Adjaoud and Ben-Amar (2010) use the Globe & Mail corporate governance index for Canadian firms.

<sup>&</sup>lt;sup>22</sup> Mitton (2004) finds likewise. Country-level shareholder rights dominate corporate shareholder rights in determining corporate dividend payout.

U.S. firms included in the full sample. As mentioned earlier in paper, shareholders in the U.S. are afforded a much higher level of protection than creditors. Finally, we examine the effect of corporate governance on the reduced sample. As before, the results are positive and significant, suggesting the likelihood of a dividend being paid is higher in countries where shareholder rights at the firm level are strong. In the case of the reduced sample, the coefficient estimates are much higher than in the full sample.

Next, we consider the relationship between corporate governance, legal rights and the dividend amount using a series of pooled fixed effects Tobit regressions. The dependent variable is dividends-tocashflow. The results for the full sample of countries are presented in Table 5, Panel A. In all regressions, we include firm-level controls (firm size, firm profitability, and firm growth opportunities), year and industry fixed effects (both unreported), and report marginal effects, again evaluated at the mean of each independent variable. Finally, and again as before, we report z-statistics, which are robust to firm-level clustering (Petersen, 2009). Once again, we find shareholder rights, creditor rights, and corporate governance to be statistically significant. There is support for the outcome model of dividends when the revised anti-director rights index is used to measure the strength of shareholder rights at the country level. Again, we find support in favour of the substitution model when any other measure of shareholder rights is used. Creditor rights have a positive and significant effect on the level of dividends in all cases. The amount of dividends paid also increases in the level of corporate governance. The country-level effects again dominate the firm-level corporate governance measure. Also, and consistent with earlier, we find that the amount of dividends paid is much more sensitive to shareholder rights (measured at the countrylevel) than creditor rights. These results contradict Brockman and Unlu (2009), but are in line with Shao et al. (2009).<sup>23</sup> Finally, in all specifications, the firm-level control variables are statistically significant, and based on the predictions of the life-cycle model of dividends, correctly signed. Large, profitable firms, with low growth opportunities pay higher dividends than small firms with high growth, but little or no profits.

In Panel B of Table 5, we present results from the reduced sample of countries. Now, irrespective of the measure we use for shareholder rights, there is evidence in support of the outcome model of dividends. The positive coefficient estimates imply that dividend payouts will be higher in countries where

 $<sup>^{23}</sup>$  In their logit regressions, the coefficient estimate on the shareholder rights measure (0.365) is larger than the coefficient estimate on the creditor rights variable (0.138).

shareholder rights are strong. The marginal effects on the creditor rights variable are positive, although only about half of the size of the coefficient estimates across the full sample (ranging between 0.014 and 0.028 across the full sample, and between 0.010 and 0.012 across the reduced sample). As before, we find the marginal effect on the corporate governance variable to be positive and statistically significant. The marginal effects estimates range from 0.010 and 0.012 across the reduced sample, compared to between 0.001 and 0.003 across the full sample.

We now consider the effect of shareholder rights and corporate governance on dividends for differing levels of creditor rights. Here we examine whether the likelihood of paying a dividend is greatest when shareholder and creditor rights are both strong. This appears to be the case. We find a positive relationship between shareholder rights and the likelihood of paying dividends in countries where creditor rights are strong. We also find that, in countries where creditor rights are weak, shareholder rights and the likelihood of paying dividends are negatively related. This confirms our findings that the outcome model is effective in countries with strong creditor rights. We also find that corporate governance matters when explaining dividend payouts. The results are positive and significant in every case at the 1% level suggesting that when the level of corporate governance increases the likelihood of paying dividends also increases. Finally, we again find that corporate governance matters more when creditor rights are strong. As before, we find support in favour of the outcome model across both sub-samples. However, the likelihood of a firm not paying a dividend is much greater when creditors are not well-protected.

We repeat the analysis excluding firms domiciled in the U.S., the U.K., and Japan and present the results in Panel B. Again, we find a positive relationship between shareholder rights and the likelihood of paying dividends in countries where creditor rights are strong. The relationship is much weaker when creditor rights are weak.

Finally, we repeat our analysis with dividends-to-cashflow as the dependent variable. We report the coefficient estimates from pooled fixed-effect Tobit regressions in Table 7. In all regressions, we reestimate the regressions presented in Table 5, but now for firms domiciled in countries where creditor rights is either above or below the median country creditor rights level. The creditor rights variable is excluded in all regressions. The summary measures presented in Table 3 suggest that dividend payouts are larger where shareholder and creditor rights are strong. In Table 7, we examine whether this relationship holds when we control for firm-level factors, industry and time fixed effects. The results suggest that they do. Specifically, when creditor rights are strong, the dividend payouts increase as shareholder rights increase. The results are positive and significant. The results are particularly striking when the anti-selfdealing index or the level of investor protection are used to measure shareholder rights. When creditor rights are weak, we find a negative relationship between shareholder rights and dividend payouts. The size of the marginal effects is dependent on which measure of shareholder rights is used. These results support the findings of Shao et al (2009) who find that the outcome model is more effective in countries where creditor rights are strong. Our paper differs to theirs since we also examine whether creditor rights impacts on the ability of shareholders to use their legal rights at the corporate level to influence corporate dividend policy. This is where we turn to next.

Creditors also appear to exert sizable influence on the ability of shareholders to use their legal rights at the firm-level to extract dividends from firms. With one exception, we find that marginal effects estimates on the corporate governance variable are larger when creditors are well-protected under the legal regime. Where they are not, the marginal effects are much lower. These findings also hold across the reduced sample.

The marginal effect estimates on the corporate governance variable support the outcome model of dividends. However, since the estimate is larger when creditors enjoy considerable legal protection, this suggests that shareholders are able to extract larger dividends from firms when both corporate governance and creditor rights are strong. Their ability to extract the same level of dividends using only their legal rights at the firm-level is restricted when creditors are not-well protected legally. Hence, dividend amounts tend to be lower. Finally, Panel B of Table 7 suggests that these same relationships hold when firms from the U.S., the U.K., and Japan are excluded from the original sample. The ability of shareholders, using either their country or corporate rights, to extract dividends from firms, is significantly reduced when creditor rights are weak.

In summary, we find that creditors exert sizable influence over corporate dividend payouts. The influence is much greater than shareholder rights, which in turn suggests that ability of shareholders to extract large dividend payouts from firms is very much contingent on both shareholder and creditor rights. Where both are strong, the likelihood of paying a dividend and the dividend amount tend to be

[21]

high. Where creditor rights are weak, the impact of shareholder rights on dividend payout is weakened. In such instances, the likelihood of, and the amount of the dividend are much lower.<sup>24</sup>

#### c. Robustness

One area of potential concern with our analysis may be our use of the sales-to-assets ratio as a measure of corporate governance. In order to ensure that the sales-to-assets ratio is capturing a genuine corporate governance effect, we carry out some additional analysis. In effect, we replicate and then extend the work of Mitton (2004). To do so, we begin by gathering Credit Lyonnais Securities Asia (CLSA (2001)) corporate governance data for a selection of countries. To this sample of firms, we source from Worldscope, the same corporate dividend payout and control variables for each firm that we used in our earlier analysis. Our final sample is made up of 304 firms from 21 emerging market countries. We are unable to fully identify all 365 firms that Mitton (2004) uses. Also, to maximize sample size, we do, unlike Mitton (2004), and others, include firms from countries which require mandatory dividend payouts e.g. Brazil. Nevertheless, we find that our findings remain unchanged when we exclude these firms. Finally, and also consistent with Mitton (2004), we employ the full/composite CLSA governance scores for each firms which is a weighted average of management discipline, transparency, independence, accountability, responsibility, fairness, and social responsibility. The first six components have a 15% weighted in the composite index, and the last, corporate social responsibility 10%.<sup>25</sup>

Our final sample is presented in Appendix 2. India provides the largest number of firms with 55, followed by Taiwan (32), Malaysia (28), Singapore (27), Hong Kong (27), and South Africa (20). Argentina, Colombia, Hungary, Peru, and Poland provide just one firm each to the final sample. Columns 3 to 5 present, by country, the mean, median and standard deviation corporate governance score. The average firm in Mexico, Singapore, South Africa, and Hong Kong present with the highest level of corporate governance. In contrast, corporate governance quality tends to be much lower in China, and

<sup>&</sup>lt;sup>24</sup> In unreported tests, we show that our main findings are robust to the inclusion of a lagged dependent variable in our logit and Tobit regressions. These tests are available from the corresponding author upon request. We thank an anonymous referee for requesting us to explore this issue.

<sup>&</sup>lt;sup>25</sup> A potential concern with this measure arises with the inclusion of the social responsibility component, which in itself is unrelated to minority shareholder protection. Since our focus is on estimating the relationship between the strength of minority shareholder protection and corporate dividend payouts, the inclusion of social responsibility appears not to be warranted, at least in the context of this study. Consequently, we re-estimate all subsequent regressions with a revised governance index, which only accounts for the first six components, where each component has equal weight. When we do so, out results remain qualitatively unchanged.

Indonesia. Finally, the greatest variability in governance scores occurs in Pakistan. In columns 6 to 11, we present the mean, median, and standard deviation of dividend payouts across countries. Two measures of dividend payout are used, namely dividends-to-cashflow, and dividends-to-earnings. Dividend payouts tend to be highest in Thailand, Singapore, Pakistan, and Hong Kong. The greatest variability in dividend payouts occurs in Singapore.

We begin with some summary measures presented in Appendix 3. The analysis is identical to that outlined earlier in Table 6, where now, corporate governance is measured using CLSA governance scores, instead of the sales-to-assets ratio. Nevertheless, we tend to reach the same conclusions using both governance measures. Specifically, using the CLSA data, and in line with earlier, we find that for firms with high levels of corporate governance, dividend payout is higher in countries where creditor rights are well protected, irrespective of the payout measure used. This is consistent with our findings reported in Table 3 where the sales-to-asset ratio is used to proxy corporate governance. When dividends-to-cash flow is the dependent variable, the difference for the mean (median) level of dividend payout is 9.31% (7.15%) and the results are statistically significant at the 5% level. These results again suggest that the ability of shareholders to use their legal rights, here defined at the firm-level, to extract dividends from firms is largely determined by the legal protection afforded to creditors. Where creditors are poorly protected, they substitute poorer protection for lower dividends.

In Appendix 4 we report the results of regression estimates using CLSA corporate governance data. For each of our three measures of dividend payout, we find that corporate governance has a positive effect, in line with our previous findings. When dividends-to-earnings are used as the dependent variable, the coefficient on corporate governance is 0.335. Using the same measure for dividends, when creditor rights are strong, we find that the coefficient on corporate governance is 0.476 and statistically significant. In the presence of weak creditor rights, the coefficient is much lower at 0.164. When dividends-to-cash flow and dividend payer are used as the dependent variable, the same pattern emerges: when creditor rights are strong, the coefficient on the corporate governance variable is higher. These findings are consistent with those reported in Table 5 and confirm our earlier findings. The outcome model of dividends, that is, the ability of shareholders to extract dividends from firms rests largely on the joint impact of the strength of shareholder and creditor legal rights. Where both are strong, dividend payouts

tend to be high. When creditors are not so well protected, and even given strong shareholder rights, measured at the firm and country level, dividend payouts, and the likelihood of paying a dividend tend to be much lower. In short, creditors exert a greater influence over corporate dividend payout than do shareholders.

#### 4. Concluding Remarks

In this paper we examine the role of both creditor and shareholder rights in order to ascertain which of these are more important in determining the level and incidence of dividend payouts. Using data for 22,374 firms across 35 countries, we find empirical results in support of the outcome model in countries where creditor rights are strong. When creditor rights are weak, the likelihood of and the dividend amounts are much lower, even when shareholders rights are strong. In turn, we show that the effectiveness of shareholders rights, measured either at the firm or country-level, is diminished given poor creditor rights. Our results suggest that while creditor rights, shareholder rights, and corporate governance all play a role in determining the likelihood and the level of dividend payouts, creditor rights measured at the country level dominate. We find that the impact of shareholder rights on dividend payouts is weaker when creditor rights are low. In fact, in some specifications, we find that the coefficient estimates on the shareholder rights variables are statistically insignificant, and even negative. The latter finding suggests that the substitution model of La Porta et al. (2000) holds when creditor rights are weak. Using corporate governance data, Mitton (2004) shows that the substitute model prevails in civil law denominated countries. Our findings suggest that the outcome model of La Porta et al. (2000) using country-level measures of shareholder rights, and Mitton (2004) using firm-level measures is contingent on strong shareholder and creditor rights. When the latter do not enjoy considerable legal protection, the likelihood of paying a dividend and the dividend amount is much lower.

Our findings differ to Brockman and Unlu (2009) in two crucial respects. First, they show that the number of dividend payers, and the amount of the dividend paid increases in creditor rights. Where creditors are not endowed with sizable legal protection, the number of dividend payers, and the amount of the dividend distributed by those who pay a dividend is much lower. We show that this result prevails, not just when shareholders are not well-protected, as predicted by the outcome model, but also when

shareholders enjoy considerable legal rights. As a consequence, creditors, and not shareholders, exert the greatest influence over corporate dividend policy. Second, we show that this result prevails even when shareholders are better-protected at the firm *and* country-level. Finally, our findings add to recent research which highlights the considerable influence that creditors exert on corporate policy.

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# Sample Description

This table reports summary statistics for the entire sample. Panel A reports by country, the number of firm-year observations (# Obs), the number of firms (# Firms), the number of dividend payers (# Dividend Papers), the percentage of firms in each country that pay a dividend at any point in the sample period (% Dividend Payers), and the average dividend payout in each country. Dividend payout is measured as dividends to cashflow. Dividend Payer equals one of the firm pays a dividend. In the remaining columns of Panel A, we outline, by country, the average and standard deviation of agency costs. Corporate governance is calculated as sales-to-total assets. All information on payout ratios and corporate governance is sourced from Worldscope. Panel B displays shareholder and creditor rights data by country. Revised ADR and the Anti-Self-Dealing Index (ASD) are shareholder rights measures from Djankov, La Porta, Lopez-de-Silanes and Shleifer (2008). Legality is an index of legal development and is measured as the weighted average of Judicial Efficiency, Rule of Law, Corruption, Risk of Expropriation, and Risk of Contract Repudiation (Berkowitz et al. (2003)). Investor Protection is from La Porta et al. (2006) and is calculated as the weighted average of Disclosure, Liability Standards, and Anti-Director Rights. Rule of Law is from LaPorta et al. (1998). Creditor Rights is from Djankov, McLeish, and Shleifer (2007).

Panel A	Sar	nple		Dividend Payou	t		orate
						Governance/	<u> </u>
	# Obs	# Firms	# Dividend	% Dividend	Dividends	Average	Std
			Payers	Payers	to Cashflow		Deviation
					(%)		
Argentina	503	57	39	68.42	6.39	0.71	0.45
Australia	7,188	1,176	473	40.22	13.96	0.78	0.95
Austria	640	63	50	79.37	13.19	1.03	0.58
Belgium	984	96	77	80.21	12.42	1.14	0.71
Canada	8,852	1,266	287	22.67	3.74	0.76	0.83
Denmark	1,467	123	102	82.93	11.33	1.22	0.61
Egypt	111	22	20	90.91	34.53	0.63	0.60
Finland	1,239	123	112	91.06	20.99	1.26	0.62
France	6,773	714	543	76.05	11.53	1.19	0.61
Germany	6,555	737	440	59.70	10.32	1.30	0.78
Hong Kong	5,680	776	522	67.27	16.69	0.91	0.80
India	4,697	585	533	91.11	15.52	0.93	0.58
Indonesia	2,185	252	175	69.44	10.60	0.93	0.76
Ireland	682	58	33	56.90	12.61	1.02	0.82
Israel	582	97	47	48.45	7.69	0.71	0.42
Italy	1832	198	160	80.81	12.54	0.78	0.42
Japan	33,596	3,498	3,266	93.37	12.69	1.15	0.61
Korea	6,171	834	665	79.74	7.55	0.98	0.56
Malaysia	6,081	809	633	78.24	14.83	0.70	0.53
Mexico	993	113	64	56.64	7.86	0.84	0.49
Netherlands	1,789	147	114	77.55	17.40	1.66	0.94
New Zealand	614	77	62	80.52	30.17	1.20	0.98
Norway	1,308	147	97	65.99	10.23	1.05	0.72
Pakistan	1,019	93	86	92.47	19.07	1.15	0.78
Portugal	621	63	45	71.43	11.86	0.87	0.51
Singapore	4,005	573	470	82.02	16.89	0.95	0.69
South Africa	2,385	283	186	65.72	15.74	1.47	0.97
Spain	1,228	110	92	83.64	16.35	0.87	0.49
Sweden	2,595	293	189	64.51	15.02	1.21	0.76
Switzerland	2,142	197	163	82.74	13.30	1.11	0.67
Taiwan	6,919	1,172	944	80.55	17.94	0.91	0.62
Thailand	3,429	391	338	86.45	18.93	0.94	0.64
Turkey	1,137	174	99	56.90	11.68	1.16	0.72
United Kingdom	13,672	1,529	982	64.22	16.65	1.19	0.88
United States	49,064	5,528	1,166	21.09	3.84	1.16	0.94
	188,738	22,374	13,274	59.33	10.85	1.08	0.80

# Table 1 (Continued)

Sample Description

This table reports summary statistics for the entire sample. Panel A reports by country, the number of firm-year observations (# Obs), the number of firms (# Firms), the number of dividend payers (# Dividend Papers), the percentage of firms in each country that pay a dividend at any point in the sample period (% Dividend Payers), and the average dividend payout in each country. Dividend payout is measured as dividends to cashflow. Dividend Payer equals one of the firm pays a dividend. In the remaining columns of Panel A, we outline, by country, the average and standard deviation of agency costs. Corporate governance is calculated as sales-to-total assets. All information on payout ratios and agency costs is sourced from Worldscope. Panel B displays shareholder and creditor rights data by country. Revised Anti-Director Rights (ADR) and the Anti-Self-Dealing Index (ASD) are shareholder rights measures from Djankov, La Porta, Lopez-de-Silanes and Shleifer (2008). Legality is an index of legal development and is measured as the weighted average of Judicial Efficiency, Rule of Law, Corruption, Risk of Expropriation, and Risk of Contract Repudiation (Berkowitz et al. (2003)). Investor Protection is from La Porta et al. (2006) and is calculated as the weighted average of Disclosure, Liability Standards, and Anti-Director Rights. Rule of Law is from LaPorta et al. (1998). Creditor Rights is from Djankov, McLeish, and Shleifer (2007).

Panel B		Shareholder Rights						
	Revised ADR	Self-Dealing Index	Legality	Investor Protection	Rule of Law	Rights Creditor Rights		
Argentina	2	0.34	9.13	0.479	5.35	1		
Australia	4	0.76	9.13 17.18	0.784	10.00	3		
Austria	2.50	0.21	17.18	0.104	10.00	3		
Belgium	3	0.54	17.42	0.068	10.00	2		
Canada	4	0.64	17.26	0.959	10.00	1		
Denmark	4	0.46	17.20	0.363	10.00	3		
Egypt	3	0.20	9.30	0.202	4.17	2		
Finland	3.50	0.46	17.74	0.465	10.00	1		
France	3.50	0.38	15.85	0.473	8.98	0		
Germany	3.50	0.28	16.82	0.000	9.23	3		
Hong Kong	5.50	0.26	15.55	0.851	8.22	4		
India	5	0.58	10.39	0.769	4.17	2		
Indonesia	4	0.65	7.53	0.507	3.98	2		
Ireland	5	0.79	15.42	0.478	7.80	1		
Israel	4	0.73	12.98	0.594	4.82	3		
Italy	2	0.42	14.60	0.197	8.33	2		
Japan	4.50	0.50	16.77	0.417	8.98	2		
Korea	4.50	0.47	11.79	0.358	5.35	3		
Malaysia	5	0.95	13.05	0.729	6.78	3		
Mexico	3	0.17	10.23	0.098	5.35	0		
Netherlands	2.50	0.20	17.82	0.537	10.00	3		
New Zealand	4	0.20	17.71	0.465	10.00	4		
Norway	3.50	0.42	17.81	0.436	10.00	2		
Pakistan	4	0.41	7.12	0.625	3.03	1		
Portugal	2.50	0.44	14.20	0.574	8.68	1		
Singapore	5	1.00	16.65	0.770	8.57	3		
South Africa	5	0.81	10.27	0.599	4.42	3		
Spain	5	0.37	14.25	0.553	7.80	2		
Sweden	3.50	0.33	17.78	0.386	10.00	1		
Switzerland	3	0.27	18.00	0.304	10.00	1		
Taiwan	3	0.56	14.54	0.547	8.52	2		
Thailand	4	0.81	10.16	0.373	6.25	2		
Turkey	3	0.43	9.08	0.338	5.18	2		
United Kingdom	5	0.95	16.92	0.776	8.57	4		
United States	3	0.65	17.40	1.000	10.00	1		
	Revised	Self-Dealing	Legality	Investor	Rule of Law	Creditor		
	ADR	Index	Degunty	Protection	Trute of Law	Rights		
	1151	much	Me	dians		ingino		
	4	0.47	15.55	0.48	8.57	2		

## Summary Statistics

This table reports summary mean and median (presented in square brackets) payout statistics by level of shareholder (Country and corporate) and creditor rights. Firms are domiciled in countries with high (low) shareholder/creditor Rights if their country level score for shareholder/creditor rights is equal to or greater (less than) the sample median. The median values are based on the number of countries in the sample. Dividend payout is calculated using Dividends-to-Cashflow. Dividends-to-Cashflow is calculated as dividends per share divided by cashflow per share (expressed as a percentage). Corporate governance is calculated as sales-to-total assets. Shareholder rights are measured by either one of five different measures, as indicated. Revised Anti-Director Rights (ADR) and the Anti-Self-Dealing Index (ASD) are shareholder rights measures from Djankov, La Porta, Lopez-de-Silanes and Shleifer (2008). Investor Protection is from La Porta et al. (2006) and is calculated as the weighted average of Disclosure, Liability Standards, and Anti-Director Rights. Legality is an index of legal development and is measured as the weighted average of Judicial Efficiency, Rule of Law, Corruption, Risk of Expropriation, and Risk of Contract Repudiation (Berkowitz et al. (2003)). Rule of Law is from La Porta et al. (1998). Creditor rights are from Djankov, McLeish, and Shleifer (2007). Asterisks denote significance of t-tests and z-tests of the equality of means and medians, respectively, where \*\*\*, \*\*, \* denote significance at the 1%, 5%, and 10% level, respectively.

		Dividends-to-Cashflow						
Panel A			Share	holder Rights I	Measures	3		
	Revised ADR	Self-Dea	ling	Investor	estor Legality		Rule of Law	
	(4.00)	Index	-	Protection		(15.55)	(8.57)	
		(0.47)		(0.48)				
High Shareholder Rights	13.26%	10.59%	/ <sub>0</sub>	9.85%		9.97%	8.73%	
	[7.98%]	[0.00%	6]	[0.00%]		[0.00%]	[0.00%]	
Low Shareholder Rights	7.92%	11.89%	/ <sub>0</sub>	12.44%		14.06%	15.06%	
	[0.00%]	[6.49%		[8.85%]		[7.11%]	[8.50%]	
Difference	5.34%***	(1.30%)*	***	(2.59%)***		.09%)***	(6.33%)***	
	7.98%***	(6.49%)	***	(8.85%)*** (7		.11%)***	(8.50%)***	
			Div	vidends-to-Cas	shflow			
Panel B	Dividends-to-0	Dividends-to-Cashflow			Dividends-to-Earnings		ends-to-Sales	
High Creditor Rights	14.08%	0		24.20%		1.43%		
	[8.93%	]		[19.51%]		[0.59%]		
Low Creditor Rights	5.90%	1	10.29%				0.99%	
	[0.00%		[0.00%]			[0.00%]		
Difference	8.18%**	**		13.91%***	%*** 0.44%***		.44%***	
	8.93%*>	**		19.51%***		0.59%***		
		Dividends-to-Cashflow						
Panel C	Divider	nds-to-Cash	flow		Div	idends-to-E	larnings	
High Corporate Governance		12.18%				21.23%		
		[6.80%]				[14.77%	]	
Low Corporate Governance		9.52%			16.19%			
		[0.00%]				[0.00%]		
Difference		2.66%***				5.04%**	*	
	(	5.80%***				14.77%*>	**	

# Table 2 (Continued)

# Summary Statistics

This table reports summary propensity to pay statistics by level of shareholder and creditor rights. Firms are domiciled in countries with high (low) shareholder/creditor rights if their country level score for shareholder/creditor rights is equal to or greater (less than) the sample median. The median values are based on the number of countries in the sample. A firm is deemed a Dividend Payer if they pay a dividend at any point during the sample period. Corporate governance is calculated as sales-to-total assets. Shareholder rights are measured by either one of five different measures, as indicated. Revised Anti-Director Rights (ADR) and the Anti-Self-Dealing Index (ASD) are shareholder rights measures from Djankov, La Porta, Lopez-de-Silanes and Shleifer (2008). Investor Protection is from La Porta et al. (2006) and is calculated as the weighted average of Disclosure, Liability Standards, and Anti-Director Rights. Legality is an index of legal development and is measured as the weighted average of Judicial Efficiency, Rule of Law, Corruption, Risk of Expropriation, and Risk of Contract Repudiation (Berkowitz et al. (2003)). Rule of Law is from LaPorta et al. (1998). Creditor rights are from Djankov, McLeish, and Shleifer (2007). Asterisks denote significance of z-tests of the equality of proportions, where \*\*\*, \*\*, \* denote significance at the 1%, 5%, and 10% level, respectively.

	Dividends Payer								
Panel D	Shareholder Rights Measures								
	Revised ADR	Self-Dealing	Investor	Legality	Rule of Law				
	(3.75)	Index	Protection	(15.01)	(8.43)				
		(0.46)	(0.48)						
High Shareholder Rights	0.71	0.56	0.47	0.53	0.50				
	(8952/12530)	(10194/18166)	(6755/14459)	(9115/17063)	(7186/14248)				
Low Shareholder Rights	0.44	0.73	0.82	0.78	0.75				
	(4322/9844)	(3080/4208)	(6519/7915)	(4159/5311)	(6088/8126)				
Difference	0.27***								
Panel E			Full Sample						
	Dividend Payer								
High Creditor Rights			0.76						
			(10547/13869)						
Low Creditor Rights			0.32						
			(2727/8505)						
Difference			0.44***						
Panel F			Full Sample						
			Dividend Payer						
High Corporate Governance			0.68						
	(7480/10993)								
Low Corporate Governance			0.51						
-			(5794/11381)						
Difference			0.17***						

#### Summary Statistics

This table reports summary mean and median (presented in square brackets) payout statistics and propensity to pay statistics by level of shareholder rights and the interaction of shareholder and creditor rights. Firms are domiciled in countries with high (low) shareholder/creditor Rights if their country level score for shareholder/creditor rights is equal to or greater (less than) the sample median. The median values are based on the number of countries in the sample. Dividend payout is calculated using Dividends-to-Cashflow. Dividends-to-Cashflow is calculated as dividends per share divided by cashflow per share (expressed as a percentage). A firm is deemed a Dividend Payer if they pay a dividend at any point during the sample period. Shareholder rights are measured by either one of five different measures, as indicated. Corporate governance is calculated as sales-to-total assets. Revised Anti-Director Rights (ADR) and the Anti-Self-Dealing Index (ASD) are shareholder rights measures from Djankov, La Porta, Lopez-de-Silanes and Shleifer (2008). Investor Protection is from La Porta et al. (2006) and is calculated as the weighted average of Judicial Efficiency, Rule of Law, Corruption, Risk of Expropriation, and Risk of Contract Repudiation (Berkowitz et al. (2003)). Rule of Law is from LaPorta et al. (1998). Creditor rights are from Djankov, McLeish, and Shleifer (2007). Asterisks denote significance of t-tests and z-tests of the equality of means and medians, respectively, where \*\*\*, \*\*, \* denote significance at the 1%, 5%, and 10% level, respectively.

Panel A		Div	vidends-to-(	Cashflow		
		Share	holder Right	ts Measures		
	Revised ADR	Self-Dealing	Investo	r Legality	Rule of Law	
	(4.00) Index Pro		Protectio	on (15.55)	(8.57)	
		(0.47)	(0.48)			
High Shareholder/High Creditor	14.11%	14.83%	15.84%		12.83%	
	[9.19%]	[9.66%]	[9.09%]		[8.97%]	
High Shareholder/Low Creditor	5.79%	3.93%	4.17%		5.62%	
	[0.00%]	[0.00%]	[0.00%]		[0.00%]	
Difference	8.32%***	10.90%***	11.67%*		7.21%***	
	9.19%***	9.66%***	9.09%**		8.97%***	
Panel B		Dividends-to-Ca	ushflow & D	Dividends-to-Earnings		
		Со	rporate Gov	vernance		
	Divider	nds-to-Cashflow		Dividends-to-Earnings		
High Governance/High Creditor Rights		15.58%		27.22%		
		[11.23%]		[23.91%]		
High Governance/Low Creditor Rights		7.25%		12.52%		
		[0.00%]		[0.00%]		
Difference	:	8.33%***		14.70%**	***	
	1	1.23%***		23.91%**	**	
Panel C			Dividends I	Payer		
		Share	holder Right	ts Measures		
High Shareholder/High Creditor	0.77	0.77	0.69	0.74	0.77	
	(8546/11113)	(8708/11314)	(5171/75	09) (6655/8942)	(4681/6064)	
High Shareholder/Low Creditor	0.29	0.22	0.23	0.30	0.31	
	(406/1417)	(1486/6852)	(1584/69		(2505/8184)	
Difference	0.48***	0.55***	0.46***		0.46***	
			Dividend F	Payer		
		vernance				
High Governance/High Creditor Rights			0.85			
			(5799/68-	41)		
High Governance/Low Creditor Rights			0.42			
			(1815/43-	46)		
Difference			0.43***	k		

# Dividend Payer, Shareholder and Creditor Rights

This table reports marginal effects from pooled fixed-effect logit regressions with z-stats adjusted for clustering at the firm level presented underneath in parenthesis. The marginal effects are evaluated at the sample mean of each variable. Panel A reports the marginal effects for the full sample of firms (Full Sample). In Panel B we exclude all firms from Japan, the U.K., and the U.S. (Reduced Sample). The sample period is 1991-2007. In each regression shareholder rights is measured using a different proxy, as indicated. The dependent variable is dividend paper. Dividend payer equals one if the firm pays a dividend, and is zero otherwise. All country and firm-level variables are defined in the main text. All firm-level variables are winsorized at the 1<sup>st</sup> and 99<sup>th</sup> percentiles. A full set of year and industry fixed effects are included but not reported, and \*\*\*, \*\*, and \* denotes significance at the 1, 5, and 10% level, respectively.

Panel A			end Payer & Full S	1					
		Sharehol	der Rights Measu						
	Revised ADR	Self-Dealing	Investor	Legality	Rule of Law				
		Index	Protection						
	(1)	(2)	(3)	(4)	(5)				
Shareholder Rights	0.190***	-0.497***	-0.533***	-0.014***	-0.033***				
5	(34.99)	(22.89)	(38.68)	(11.67)	(16.81)				
Creditor Rights	0.040***	0.178***	0.103***	0.129***	0.118***				
_	(9.41)	(41.52)	(34.11)	(38.31)	(35.02)				
Corporate Governance	0.047***	0.031***	0.038***	0.045***	0.047***				
-	(10.08)	(6.72)	(8.54)	(9.30)	(9.88)				
Firm Size	0.107***	0.099***	0.099***	0.107***	0.108***				
	(52.24)	(48.51)	(49.82)	(51.21)	(51.55)				
Firm Growth	-0.120***	-0.119***	-0.092***	-0.133***	-0.131***				
	(17.68)	(18.92)	(14.68)	(20.96)	(20.55)				
Firm Profitability	2.450***	2.447***	2.530***	2.341***	2.332***				
·	(73.18)	(73.07)	(78.14)	(68.89)	(69.26)				
Year Dummies	Included	Included	Included	Included	Included				
Industry Dummies	Included	Included	Included	Included	Included				
# Observations	188,738	188,738	188,738	188,738	188,738				
Panel B		Dividend Payer & Reduced Sample							
		Sharehol	der Rights Measu	red as					
	Revised ADR	Anti-Self-	Investor	Legality	Rule of Law				
		Dealing Index	Protection						
	(1)	(2)	(3)	(4)	(5)				
Shareholder Rights	0.043***	0.138***	-0.016	-0.003*	-0.007***				
0	(7.24)	(6.37)	(0.85)	(1.98)	(3.46)				
Creditor Rights	0.030***	0.030***	0.045***	0.045***	0.043***				
	(6.50)	(6.23)	(10.85)	(10.80)	(10.36)				
Corporate Governance	0.080***	0.083***	0.074***	0.077***	0.078***				
	(12.18)	(12.35)	(11.35)	(11.70)	(11.86)				
Year Dummies	Included	Included	Included	Included	Included				
Industry Dummies	Included	Included	Included	Included	Included				
Firm Controls	Included	Included	Included	Included	Included				
# Observations	92,406	92,406	92,406	92,406	92,406				

# Dividend Payout, Shareholder and Creditor Rights

This table reports marginal effects from pooled fixed-effect tobit regressions with z-stats adjusted for clustering at the firm level presented underneath in parenthesis. The marginal effects are evaluated at the sample mean of each variable, and correspond to the marginal effect of each independent variable on the observed dependent variable. Panel A reports the marginal effects for the full sample of firms (Full Sample). In Panel B we exclude all firms from Japan, the U.K., and the U.S. (Reduced Sample). The sample period is 1991-2007. In each regression shareholder rights is measured using a different proxy, as indicated. The dependent variable is dividends-to-cashflow. Dividends-to-cashflow is calculated as dividends per share divided by cashflow per share. All country and firm-level variables are defined in the main text. All firm-level variables are winsorized at the 1<sup>st</sup> and 99<sup>th</sup> percentiles. A full set of year and industry fixed effects are included but not reported, and \*\*\*, \*\*, and \* denotes significance at the 1, 5, and 10% level, respectively.

Panel A		Dividends-to-Cashflow & Full Sample							
		Sharehol	der Rights Measu	red as					
	Revised ADR	Self-Dealing	Investor	Legality	Rule of Law				
		Index	Protection						
	(1)	(2)	(3)	(4)	(5)				
Shareholder Rights	0.020***	-0.043***	-0.064***	-0.003***	-0.004***				
5	(22.86)	(13.65)	(32.21)	(12.18)	(12.32)				
Creditor Rights	0.014***	0.028***	0.021***	0.024***	0.023***				
	(20.49)	(44.59)	(37.31)	(42.22)	(39.29)				
Corporate Governance	0.003***	0.001	0.002**	0.003***	0.003***				
	(3.45)	(1.37)	(2.19)	(3.79)	(3.62)				
Firm Size	0.012***	0.012***	0.011***	0.013***	0.013***				
	(46.54)	(42.71)	(41.33)	(46.88)	(46.78)				
Firm Growth	-0.027***	-0.028***	-0.024***	-0.030***	-0.029***				
	(22.89)	(23.61)	(20.70)	(24.65)	(24.49)				
Firm Profitability	0.454***	0.459***	0.453***	0.449***	0.449***				
	(90.14)	(91.33)	(93.86)	(87.71)	(87.46)				
Year Dummies	Included	Included	Included	Included	Included				
Industry Dummies	Included	Included	Included	Included	Included				
# Observations	188,738	188,738	188,738	188,738	188,738				
Panel B		Dividends-to-Cashflow & Reduced Sample							
		Sharehol	der Rights Measu	red as					
	Revised ADR	Anti-Self-	Investor	Legality	Rule of Law				
		Dealing Index	Protection						
	(1)	(2)	(3)	(4)	(5)				
Shareholder Rights	0.001	0.053***	0.013***	0.001**	0.002***				
	(0.76)	(12.09)	(3.57)	(2.14)	(4.08)				
Creditor Rights	0.012***	0.010***	0.012***	0.012***	0.012***				
C	(13.13)	(7.40)	(14.36)	(14.53)	(14.08)				
Corporate Governance	0.010***	0.012***	0.010***	0.010***	0.010***				
-	(6.89)	(8.80)	(7.22)	(6.52)	(6.36)				
Year Dummies	Included	Included	Included	Included	Included				
Industry Dummies	Included	Included	Included	Included	Included				
Firm Controls	Included	Included	Included	Included	Included				
# Observations	92,406	92,406	92,406	92,406	92,406				

Tab	le	6

## Dividend Payer Regressions by Level of Creditor Rights

This table reports marginal effects from pooled fixed-effect logit regressions with z-stats adjusted for clustering at the firm level presented underneath in parenthesis. The marginal effects are evaluated at the sample mean of each variable. The sample period is 1991-2007. Panel A reports the marginal effects for the full sample of firms (Full Sample). In Panel B we exclude all firms from Japan, the U.K., and the U.S. (Reduced Sample). In each regression shareholder rights is measured using a different proxy, as indicated. The dependent variable is dividend paper. Dividend payer equals one if the firm pays a dividend, and is zero otherwise. Separate regressions are reported for firms in countries with above- and below-median creditor rights. All country and firm-level variables are defined in the main text. All firm-level variables are included, but not reported, and are winsorized at the 1<sup>st</sup> and 99<sup>th</sup> percentiles. A full set of year and industry fixed effects are included but not reported, and \*\*\*, \*\*, and \* denotes significance at the 1, 5, and 10% level, respectively.

Panel A			end Payer & Full S	1				
			Median Creditor	Rights				
	Revised ADR	Self-Dealing	Investor	Legality	Rule of Law			
		Index	Protection					
Shareholder Rights	0.384***	0.066***	0.103***	0.023***	0.027***			
	(16.76)	(3.48)	(5.38)	(14.52)	(10.99)			
Corporate Governance	0.370***	0.089***	0.091***	0.072***	0.077***			
	(13.80)	(13.65)	(13.89)	(11.22)	(11.92)			
# Observations	114,255	114,255	114,255	114,255	114,255			
Controls/Industry & Year Dummies	Included	Included	Included	Included	Included			
		Below	Median Creditor	Rights				
Shareholder Rights	0.103***	-0.440***	-0.240***	-0.015***	-0.027***			
C C	(16.25)	(22.59)	(23.39)	(12.21)	(13.51)			
Corporate Governance	0.011***	0.012***	0.012***	0.010***	0.011***			
-	(3.37)	(4.35)	(4.64)	(3.10)	(3.27)			
# Observations	74,483	74,483	74,483	74,483	74,483			
Controls/Industry & Year Dummies	Included	Included	Included	Included	Included			
Panel B	Dividend Payer & Reduced Sample							
		Above	Median Creditor	Rights				
	Revised ADR	Self-Dealing	Investor	Legality	Rule of Law			
		Index	Protection	0.				
Shareholder Rights	0.060***	0.244***	0.218***	0.003	0.001			
0	(10.25)	(11.48)	(10.87)	(1.54)	(0.03)			
Corporate Governance	0.069***	0.076***	0.075***	0.058***	0.059***			
-	(9.20)	(9.90)	(9.78)	(7.87)	(8.05)			
# Observations	66,987	66,987	66,987	66,987	66,987			
Controls/Industry & Year Dummies	Included	Included	Included	Included	Included			
		Below	Median Creditor	Rights				
Shareholder Rights	-0.076***	-0.550***	-0.406***	0.003	-0.002			
$\sim$	(4.80)	(9.57)	(12.13)	(1.20)	(0.43)			
Corporate Governance	0.018***	0.019***	0.025***	0.017***	0.019***			
-	(9.32)	(8.92)	(8.80)	(9.02)	(9.19)			
# Observations	25,419	25,419	25,419	25,419	25,419			
Controls/Industry & Year Dummies	Included	Included	Included	Included	Included			

# Dividend Payout Regressions by Level of Creditor Rights

This table reports marginal effects from pooled fixed-effect tobit regressions with z-stats adjusted for clustering at the firm level presented underneath in parenthesis. The marginal effects are evaluated at the sample mean of each variable, and correspond to the marginal effect of each independent variable on the observed dependent variable. Panel A reports the marginal effects for the full sample of firms (Full Sample). In Panel B we exclude all firms from Japan, the U.K., and the U.S. (Reduced Sample). The sample period is 1991-2007. In each regression shareholder rights is measured using a different proxy, as indicated. The dependent variable is dividends-to-cashflow. Dividends-to-cashflow is calculated as dividends per share divided by cashflow per share. Separate regressions are reported for firms in countries with above- and below-median creditor rights. All country and firm-level variables are defined in the main text. All firm-level variables are included, but not reported, and are winsorized at the 1<sup>st</sup> and 99<sup>th</sup> percentiles. A full set of firm controls, year and industry fixed effects are included but not reported, and \*\*\*, \*\*, and \* denotes significance at the 1, 5, and 10% level, respectively.

Panel A			-to-Cashflow & F					
		Above	Median Creditor	Rights				
	Revised ADR	Self-Dealing	Investor	Legality	Rule of Law			
		Index	Protection					
Shareholder Rights	0.010***	0.072***	0.071***	0.004***	0.006***			
	(6.08)	(16.72)	(16.31)	(10.57)	(12.50)			
Corporate Governance	0.010***	0.010***	0.010***	0.010***	0.010***			
	(6.18)	(7.88)	(7.70)	(4.49)	(4.53)			
# Observations	114,255	114,255	114,255	114,255	114,255			
Controls/Industry & Year Dummies	Included	Included	Included	Included	Included			
		Below	Median Creditor					
Shareholder Rights	0.016***	-0.064***	-0.035***	-0.003***	-0.005***			
	(16.65)	(22.92)	(23.31)	(12.58)	(14.69)			
Corporate Governance	0.001	0.001**	0.001***	0.001	0.001			
*	(1.15)	(2.46)	(2.72)	(1.25)	(1.40)			
# Observations	74,483	74,483	74,483 74,483		74,483			
Controls/Industry & Year Dummies	Included	Included	Included	Included	Included			
Panel B	Dividends-to-Cashflow & Reduced Sample							
		Above	Median Creditor	Rights				
	Revised ADR	Self-Dealing	Investor	Legality	Rule of Law			
		Index	Protection					
Shareholder Rights	0.010***	0.086***	0.072***	0.003***	0.006***			
C	(4.30)	(17.01)	(15.38)	(8.04)	(10.36)			
Corporate Governance	0.010***	0.011***	0.010***	0.005***	0.005***			
*	(4.24)	(6.78)	(6.07)	(2.87)	(2.76)			
# Observations	66,987	66,987	66,987	66,987	66,987			
Controls/Industry & Year Dummies	Included	Included	Included	Included	Included			
			Median Creditor	Rights				
Shareholder Rights	-0.013***	-0.091***	-0.070***	-0.001	-0.002**			
_	(4.78)	(10.49)	(14.31)	(0.49)	(2.09)			
Corporate Governance	0.010***	0.007***	0.006***	0.004***	0.004***			
	(8.33)	(8.09)	(7.83)	(8.04)	(8.24)			
# Observations	25,419	25,419	25,419	25,419	25,419			
Controls/Industry & Year Dummies	Included	Included	Included	Included	Included			

# Appendix 1

# Correlation Coefficients

This table presents correlation coefficient for the main variables used in this paper. Dividend payout is measured as either dividends to cashflow, dividends to earnings, or dividends to sales. Revised ADR and the Anti-Self-Dealing Index (ASD) are shareholder rights measures from Djankov, LaPorta, Lopez-de-Silanes and Shleifer (2008). Legality is an index of legal development and is measured as the weighted average of Judicial Efficiency, Rule of Law, Corruption, Risk of Expropriation, and Risk of Contract Repudiation (Berkowitz et al. (2003)). Investor Protection is from LaPorta et al. (2006) and is calculated as the weighted average of Disclosure, Liability Standards, and Anti-Director Rights. Rule of Law is from LaPorta et al. (1998). Creditor Rights is from Djankov, McLeish, and Shleifer (2007). Corporate governance is calculated as sales-to-total assets. All information on payout ratios and agency costs is sourced from Worldscope. \*\*\*, \*\*, and \* represents significance at the 1, 5, and 10% level, respectively.

	Dividends-to- Cashflow9	Dividends-to- Earnings	Dividends-to-Sales	Creditor Rights	Revised ADR Index	Self-Dealing Index	Investor Protection	Legality	Rule of Law	Corporate Governance
Dividends-to-Cashflow	1.00									
Dividends-to-Earnings	0.798***	1.00								
Dividends-to-Sales	0.482***	0.414***	1.00							
Creditor Rights	0.212***	0.197***	0.149***	1.00						
Revised ADR Index	0.190***	0.191***	0.117***	0.395***	1.00					
Self-Dealing Index	0.056***	(0.034)***	0.134***	0.505***	0.676***	1.00				
Investor Protection	(0.170)***	(0.262)***	(0.060)***	0.127***	0.479***	0.625***	1.00			
Legality	(0.110)***	(0.087)***	(0.111)***	0.180***	(0.036)***	0.059***	0.060***	1.00		
Rule of Law	(0.137)***	(0.120)***	(0.107)***	0.071***	(0.196)***	(0.018)***	0.001	0.960***	1.00	
Corporate Governance	0.082***	0.092***	(0.217)***	(0.022)***	(0.045)***	(0.066)***	(0.026)***	0.074***	0.057*	1.00

# Appendix 2

#### CLSA Corporate Governance Ratings across Countries

This table describes the sample by country. Obs is the number of observations (firms) by country. For each country, I report the mean, median, and standard deviation of firm-level governance, dividends-to-earnings (%), and dividends-to-cashflow (%). In the remaining column, I report creditor rights data from Djankov, McLeish, and Shleifer (2007). All firm-level data is sourced from Worldscope. Firm-level governance measures are taken from CLSA (2001).

	Obs	Corporate Governance		Dividends-to-Earnings (%)			Dividends-to-Cashflow (%)		Creditor Rights		
		Mean	Median	SD	Mean	Median	SD	Mean	Median	SD	
Argentina	1	66.70	66.70	•	0.00	0.00	•	0.00	0.00	•	1
Brazil	16	60.74	63.90	8.78	27.67	28.43	27.52	9.47	7.29	12.41	1
Chile	5	60.66	59.50	3.08	31.42	40.04	17.80	13.96	14.46	10.65	2
China	13	47.88	49.00	9.06	34.49	44.44	23.70	23.75	27.70	17.89	2
Colombia	1	57.90	57.90		39.45	39.45		6.13	6.13		0
Hong Kong	27	62.05	64.50	13.89	41.09	41.96	29.23	39.17	31.72	36.54	4
Hungary	1	45.30	45.30		23.11	23.11					1
India	55	56.08	53.50	10.45	30.03	23.42	23.02	21.26	16.39	18.24	2
Indonesia	14	36.07	36.05	12.51	25.21	16.80	29.04	21.70	6.61	26.31	2
Korea	15	44.43	43.20	4.38	13.01	10.20	13.74	5.45	4.26	5.67	2
Malaysia	28	57.00	59.45	12.67	35.89	32.85	25.53	24.70	17.96	20.97	3
Mexico	5	67.86	67.10	4.96	26.39	29.39	26.58	14.39	20.54	13.32	0
Pakistan	8	34.68	28.15	15.97	54.03	65.23	34.38	37.19	44.36	27.36	1
Peru	1	75.50	75.50		46.79	46.79	•	71.14	71.14		0
Philippines	13	47.36	48.80	11.87	18.50	10.57	20.48	9.34	0.00	16.15	1
Poland	1	34.00	34.00		0.00	0.00	•	0.00	0.00		1
Singapore	27	67.06	64.70	7.99	45.89	36.87	43.55	35.01	23.01	38.17	3
South Africa	20	67.72	66.75	9.11	26.58	28.30	26.15	19.59	10.92	21.45	3
Taiwan	32	56.70	56.90	8.40	33.32	35.56	29.86	22.08	18.86	23.18	2
Thailand	13	55.32	50.10	13.00	50.96	39.85	38.30	33.88	28.48	27.49	2
Turkey	8	43.74	42.65	10.50	2.64	0.00	7.46	1.57	0.00	4.44	2
•	304	55.87	56.7	13.49	32.23	28.98	29.35	22.71	15.81	25.44	

#### Appendix 3

Summary Statistics using CLSA Corporate Governance Ratings

This table reports summary mean and median (presented in square brackets) payout statistics by level of corporate governance and creditor rights. Corporate governance is measured using CLSA (2001) data. Creditor rights data is from Djankov, McLeish, and Shleifer (2007). Firms are domiciled in countries with high (low) creditor rights if their country level score for creditor rights is equal to or greater (less than) the sample median. The sample median is 2. A firm has high corporate governance if its governance score is above the sample median. The sample median is 56.7. Dividend payout is measured using either dividends-to-cashflow (%), dividends-to-earnings (%), or dividend payer, as indicated. Dividend payer equals one if the firm pays a dividend, zero otherwise. All payout data is sourced from Worldscope.

	Payout Measures			
	Dividends-to-Cashflow	Dividends-to-Earnings	Dividend Payer	
	(%)	(%)		
High Governance/High Creditor Rights	29.71%	38.81%	0.857	
	[23.23%]	[36.32%]	(66/77)	
High Governance/Low Creditor Rights	20.40%	33.29%	0.760	
	[16.08%]	[34.53%]	(57/75)	
Difference	9.31%**	5.52	0.097	
	7.15%**	1.79		

Appendix 4

# Regression estimates using CLSA Corporate Governance Data

This table reports coefficient estimates from ordinary least squares and logit regressions with heteroscedastic consistent t-stats presented underneath in parenthesis. The sample period is 2002. The dependent variable is dividends-to-earnings, dividends-to-cashflow, and dividend payer, as indicated. Separate regressions are reported for the full sample, and for firms who are domiciled in countries with above and below median creditor rights. Also included, but not reported are firm-level controls (size is the log of book assets in US\$, growth is logarithmic one-year asset growth, and profitability is earnings before interest and taxation to book assets), industry and country dummies. Creditor Rights is from Djankov, McLeish, and Shleifer (2007), and \*\*\*, \*\*, and \* denotes significance at the 1, 5, and 10% level, respectively.

	Dividends-to-Earnings (%)					
	Full Sample	Above Median	Below Median			
		Creditor Rights	Creditor Rights			
Corporate Governance	0.335**	0.476**	0.164			
-	(2.03)	(2.02)	(0.77)			
Firm Controls	Included	Included	Included			
Country Dummies	Included	Included	Included			
Industry Dummies	Included	Included	Included			
# Observations	304	102	202			
R-Squared	0.229	0.296	0.271			
	Dividends-to-Cashflow (%)					
	Full Sample	Above Median	Below Median			
	-	Creditor Rights	Creditor Rights			
Corporate Governance	0.147	0.207	0.081			
	(1.06)	(0.98)	(0.47)			
Firm Controls	Included	Included	Included			
Country Dummies	Included	Included	Included			
Industry Dummies	Included	Included	Included			
# Observations	282	95	187			
R-Squared	0.282	0.303	0.321			
	Dividend Payer					
	Full Sample	Above Median	Below Median			
	*	Creditor Rights	Creditor Rights			
Corporate Governance	0.041**	0.096	0.033			
~	(2.03)	(1.56)	(1.38)			
Firm Controls	Included	Included	Included			
Country Dummies	Included	Included	Included			
Industry Dummies	Included	Included	Included			
# Observations	304	102	202			