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# Corporate Governance and Corporate Social Disclosures: A Meta-Analytical Review

# **Abstract**

**Purpose** – This study investigates the association between corporate governance and corporate social disclosures.

**Design/methodology/approach** – Data Analysis has been conducted on 29 prior studies published between 2004 and 2016 for the purpose of integrating the findings across studies. The study uses the meta-analysis instrument developed by Hunter et al. (1982).

**Findings** – The investigation finds a significant positive association between board Size, the frequency of board meetings, and auditors' credibility with Corporate Social Disclosures (CSD). Both the managerial and concentrated ownership are also a significant but negative association with CSD. In contrast, board independence, board gender diversity, the composition of non-executive directors, government ownership, foreign ownership, and institutional ownership are insignificantly and positively associated with CSD. CEO duality is also insignificant with CSD but indicates a negative association. The study further investigates that the association between board gender diversity and CSD affected by the differences of the country of study.

**Originality/value** – This paper adds significance to the extant academic literature as well as assisting the appropriate policy maker in assessing the determinants of corporate social disclosures from the viewpoints of corporate governance. It further aims to reconcile the findings of the previous studies around the world, and also for the developed and developing countries separately.

**Keywords:** Corporate social responsibility, Disclosures, Corporate governance, Metaanalysis.

Paper type: Research paper

# 1. Introduction

Due to several corporate scandals (for example, Enron, Ahold, WorldCom, Lehman Brothers and Parmalat), recent financial crisis, and changing the mix of the business environment with the rising demand from various stakeholders have brought more devotion to the corporate governance (CG) and corporate social disclosures (CSD). Corporate governance and social disclosures are related to each other (Haniffa and Cooke, 2005, Said et al., 2009, Kathy Rao et al., 2012). CG ensures the interest of the shareholders, and it plays a vital role to the corporate accountability by disclosing social issues (Hossain and Alam, 2016). Dellaportas et al. (2012) find if the disclosure level of the organization increases, it will create advantages for that organization. As a result, every company should disclose their economic, social and environmental activities to their valuable stakeholders (Said et al., 2009). The meaning of corporate social responsibility (CSR) and CSD differ in the context of various stakeholder groups and companies around the world (Dawkins and Lewis, 2003, Igalens and Gond, 2005, Welford et al., 2008). As a country, USA is the pioneer in the arena of CSR and CSD (Giannarakis, 2014b) and companies in that country still meets the desire of their shareholders by providing CSD as a voluntary disclosure (Tschopp, 2005, Rodríguez and LeMaster, 2007). The evidence shows that a number of research connected to CSD have investigated in the developed and developing countries. But, much of the evidence of previous literature provides qualitative descriptions regarding the nature, contents and motivational factors of CSD (McWilliams and Siegel, 2001, Newson and Deegan, 2002, Campbell, 2007, Van Beurden and Gössling, 2008, Uzma, 2016, Neu et al., 1998, Dowling and Pfeffer, 1975, Teoh and Thong, 1984, Guthrie and Parker, 1989, Andrew et al., 1989, Guthrie and Parker, 1990, Roberts, 1992, Patten, 1992, Clarkson, 1995, Donaldson and Preston, 1995, Deegan and Gordon, 1996, Adams et al., 1998, Adams et al., 1995, Deegan and Rankin, 1997). In the existing literature, a microscopic research has been investigated on the determinants of CSD as well, e.g., (Hackston and Milne, 1996, Alnajjar, 2000, Naser et al., 2006, Hawani Wan Abd Rahman et al., 2011, Giannarakis, 2013, Muttakin and Khan, 2014, Giannarakis, 2014b, Barakat et al., 2015, Alotaibi and Hussainey, 2016, Nurhayati et al., 2016).

Moreover, there is relatively less devotion has been given to set up a direct link between CG and CSD (Khan et al., 2013, Razak and Mustapha, 2013, Sufian and Zahan, 2013, Giannarakis, 2014a, Kiliç et al., 2015, Deschênes et al., 2015, Majeed et al., 2015, D.Sundarasen et al., 2016, Dunn and Sainty, 2009, Ibrahim and Hanefah, 2016, Rashid and Lodh, 2008, Mohd Ghazali, 2007).

The empirical findings of the previous literature in connection to CG and CSD provide inconclusive results. For example, Dunn and Sainty (2009) and Ibrahim and Hanefah (2016) provide evidence that board independence has a significant impact on CSD. In contrast, Lim et al. (2008) and Razak and Mustapha (2013) suggests that no significant impact of board independence on CSD. Besides that, Javaid Lone et al. (2016) documented that there is a significant link between board size and CSD. However, Razak and Mustapha (2013) show the insignificant relationship between board size and CSD. In addition, Majeed et al. (2015) find that board gender diversity has a significant impact on CSD. On the other

side, D.Sundarasen et al. (2016) provide evidence that no significant impact exists between board gender diversity and CSD.

Contrary to previous findings above, our study aims to address the meta-analysis technique for finding out the links on the corporate governance and corporate social disclosures. In this context, this paper synthesizes 29 previous studies by conducting the meta-analysis technique developed by Hunter et al. (1982) to give a fruitful result on the CG and CSD relationship.

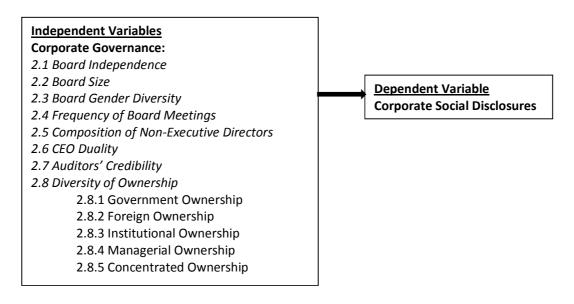
The social science researcher is more devoting on the use of meta-analysis technique but limited applications by the researcher of accounting (Eddine et al., 2015, Khlif and Souissi, 2010, Ahmed and Courtis, 1999). To the best of our awareness, no prior studies examined the association between corporate governance and corporate social disclosures by using the meta-analysis technique. Hence, this study contributes to the contemporary literature to fill up this research gap. Furthermore, the findings of the investigation present a combined result of the prior studies based on different countries which are ultimately providing a better understanding to assess the determinants of corporate social disclosures. Moreover, this meta-analysis technique adds contributions not only in the accounting research arena but also other areas of research.

In the present study, the meta-analysis incorporates twelve corporate governance variables as explanatory variables. These variables are board independence, board Size, board gender diversity, the frequency of board meetings, the composition of non-executive directors, CEO duality, auditors' credibility, government ownership, foreign ownership, institutional ownership, managerial ownership, and concentrated ownership. The study results imply that there is a significant positive relationship exists between board Size, the frequency of board meetings, and auditors' credibility with Corporate Social Disclosures (CSD). Both the managerial and concentrated ownership are also a significant but negative association with CSD. In contrast, there is an insignificant positive association finds between board independence, board gender diversity, the composition of non-executive directors, government ownership, foreign ownership, and institutional ownership. CEO duality is also insignificant with CSD but indicates a negative association. The study further investigates that the association between board gender diversity and CSD affected by the differences of the country of study. The association reveals significant positive for the developed countries but insignificant positive for the developing countries.

The rest parts of the article proceed as follows. The next section reviews the related previous literature. Section 3 includes the research methodology. Section 4 provides empirical results of the study. The last part highlights the concluding remarks and indicates future research directions.

# 2. Prior Literature

Based on the existing literature on the association between corporate governance and corporate social disclosures, the study considers a total of 12 independent variables for the meta-analysis as follows:



# 2.1 Board Independence

Board independence indicates the percentage of independent directors on the board. Agency theory suggests that independent directors pay more attention to the interests of the shareholders at the time of board decision-making process (Fama and Jensen, 1983). Independent directors play a decisive role to dominate over the actions of the board of directors on corporate social responsibility matters (Abdullah et al., 2011). Therefore, independent directors ensure the efficient management of the companies as well as protect the interests of the shareholders (De Andres et al., 2005). Some empirical examinations investigated the link between the board independence and CSD (D.Sundarasen et al., 2016, Dunn and Sainty, 2009, Ibrahim and Hanefah, 2016, Razak and Mustapha, 2013, Javaid Lone et al., 2016, Giannarakis, 2014a, Lim et al., 2008, Majeed et al., 2015, Kiliç et al., 2015, Rashid and Lodh, 2008, Deschênes et al., 2015, Supriyono et al., 2015, Alotaibi and Hussainey, 2016, Ahmed Haji, 2013). Prior literature finds mixed results. For example, Rashid and Lodh (2008), Dunn and Sainty (2009), Ibrahim and Hanefah (2016), Javaid Lone et al. (2016), Rashid and Lodh (2008), Deschênes et al. (2015), and Supriyono et al. (2015) find a significant positive relation between the board independence and CSD. In contrary, the studies of Razak and Mustapha (2013), Lim et al. (2008), and Nurhayati et al. (2016) show the insignificant positive relation between the board independence and CSD. In addition, some studies find an insignificant negative association between the board independence and CSD (D.Sundarasen et al., 2016, Giannarakis, 2014a, Majeed et al., 2015, Kiliç et al., 2015, Alotaibi and Hussainey, 2016, Ahmed Haji, 2013, Barakat et al., 2015).

#### 2.2 Board Size

Board size refers to the total number of directors on the company's board. It considers as an effective monitoring tool of corporate governances (Lee and Chen, 2011). The intercorrelation between board size and reporting is complementary. The larger board size of a company tends to disclose more reporting activities (Samaha et al., 2012). However, a larger board is more efficient than the smaller ones but too larger board is ineffective for monitoring the business operations (Giannarakis, 2014a). It is expected that size of the board shows the management ability and reduce the information lopsidedness of the managers and stakeholders (Chen and Jaggi, 2001, Akhtaruddin et al., 2009). Akhtaruddin et al. (2009) also argue that the greater size of Directors indicates a diversification of expertise on the board because of their collective experience and therefore the disclosures quantity and quality will be higher. The existing literature provides a controversial association between board size and CSD. For example, some academicians find a significant positive relationship between board size and CSD (Javaid Lone et al., 2016, Majeed et al., 2015, Giannarakis, 2013, Supriyono et al., 2015, Alotaibi and Hussainey, 2016, Veronica Siregar and Bachtiar, 2010, Ahmed Haji, 2013, Barakat et al., 2015, Giannarakis, 2014b). In contrast, the studies of Razak and Mustapha (2013), Kiliç et al. (2015), Deschênes et al. (2015), and Ling and Sultana (2015) show insignificant and positive impacts of board size on CSD. In addition, Dunn and Sainty (2009), Sufian and Zahan (2013), and Giannarakis (2013) find an insignificant negative relationship.

## 2.3 Board Gender Diversity

It indicates the percentage of women directors on the board. The presence of female directors besides male directors on the board plays a vital role to increase the reputation of the company by engaging with social issues (Bear et al., 2010). Prior literature suggests that women are more sensitive to the society (Burgess and Tharenou, 2002). As a result, they increase board's focus on CSR related issues (Ayuso and Argandoña, 2009) and charitable giving (Williams, 2003). Hence, it is predicted that there is a positive association between board gender diversity and CSD. But, the prior literature shows inconclusive results. For example, Giannarakis (2014a), Ibrahim and Hanefah (2016), and Javaid Lone et al. (2016) find a significant positive relation between women directors on the board and CSD whereas Majeed et al. (2015) finds a negative and significant association between female directors and CSD. In addition, some authors report that there is an insignificant positive impact of female directors on the CSD (D.Sundarasen et al., 2016, Giannarakis, 2014a, Khan, 2010, Giannarakis, 2014b), while Kiliç et al. (2015) finds an insignificant negative relationship.

#### 2.4 Frequency of Board Meetings

The frequency of board meetings indicates the total number of board meetings which is a proxy of the board activeness to handle organizational issues (Khanchel, 2007). Nowadays, corporate social problems are a crucial matter for the stakeholders. Hence, it is expected that CSR-related topics are discussed at each meeting of the board to protect the interests of the

stakeholders. There is a positive association between frequency of board meetings and disclosure quality (Anis et al., 2012). The numerous board meeting enables to give more attention on social related matters (Giannarakis, 2014a). But, there is no evidence shows the significant relationship between the frequency of board meetings and CSD in the prior academic literature. For example, some authors find an insignificant positive association between frequency of board meetings and CSD (Giannarakis, 2014a, Giannarakis, 2014b, Alotaibi and Hussainey, 2016, Giannarakis, 2013), whereas Ahmed Haji (2013) finds an insignificant negative relationship.

## 2.5 Composition of Non-Executive Directors (NEDs)

It refers to the percentage of non-executive directors (NEDs) to total directors on the board. The existence of NEDs on the board is crucial because they have the proficiencies and knowledge to judge the issues arise in the meetings (D.Sundarasen et al., 2016). The ability of the NEDs is uncertain regarding governance issues (Myllys, 1999). But, NEDs can supervise to the board of directors when they observe that the act of the executive directors' against the shareholder's interest (Jensen and Meckling, 1976, Forker, 1992). The empirical literature provides evidence that the diversity of the board of directors enhance corporate social disclosures (Siciliano, 1996). Some studies find a significant positive relationship between NEDs and CSD (D.Sundarasen et al., 2016, Khan, 2010, Lim et al., 2008), whereas Haniffa and Cooke (2005) finds a negative and significant association. In contrast, few studies provide no connection between NEDs and CSD (Haniffa and Cooke, 2002, Cullen and Christopher, 2002).

#### 2.6 CEO Duality

CEO duality means the person who serves as a CEO of the company as well as the chairman of the company's board. Prior literature measures CEO duality by taking a dummy variable equal to one when the same person serves as a CEO as well as the chairman and zero otherwise. CEO duality provides a person strong power in the decision-making process. As a result, the person does not consider the interests of the shareholders so much, and firm social activities including disclosures may be lowered (Haniffa and Cooke, 2002). Therefore, the position of CEO and chairman should be separated as it increases the monitoring quality of the issues relating to stakeholders (Li et al., 2008). However, the previous literature finds inconclusive results on the link between CEO duality and CSD. For example, some studies find a significant negative association between CEO duality and CSD (D.Sundarasen et al., 2016, Giannarakis, 2014b, Ling and Sultana, 2015). In contrary, Razak and Mustapha (2013) and Lim et al. (2008) find an insignificant negative relationship between CEO duality and CSD. In addition, the study of Giannarakis (2014a) provides an evidence of insignificant positive impact of CEO duality on CSD.

# 2.7 Auditors' Credibility

Auditors' credibility of any firm indicates its audit quality that is the firm audited by the big audit firm (Big-four). It is predicted that Big-four audit firm conduct their audit activities

sincerely (Owusu-Ansah, 1998) and Big-audit firms increase the credibility of their audited work on the annual reports (Patton and Zelenka, 1997). According to agency theory, auditor plays an effective monitoring tool on the conflict of agent-principal relationship (Lim et al., 2008). Auditors' credibility such as their suggestions, approval of choosing accounting policies and explanations of vital issues influences on the company's attitude regarding reporting and disclosure practices (Khan et al., 2013). However, the existing literature shows mixed results on the relationship between auditor's credibility and CSD. For example, D.Sundarasen et al. (2016) find a significant positive association between auditor's credibility and CSD. In contrast, Lim et al. (2008) and Lu and Abeysekera (2014) provide evidence of an insignificant positive relationship between auditor's credibility and CSD. Furthermore, Ling and Sultana (2015), and Alotaibi and Hussainey (2016) find insignificant negative impact of auditors' credibility on CSD. Prior researchers measure this variable by considering a dummy variable equal to one if a company is audited by one of the Big-four audit firms and zero otherwise.

# 2.8 Diversity of Ownership

## 2.8.1 Government Ownership

Prior literature measures government ownership in different ways. It means the percentage of shares owned by the government (Alotaibi and Hussainey, 2016, Ahmed Haji, 2013, Naser et al., 2006, Suwaidan et al., 2004, Khasharmeh and Suwaidan, 2010). Some of the researchers measure it by taking a dummy variable equal to one if the company is a government company and zero otherwise (Lim et al., 2008, Mohd Ghazali, 2007, Lu and Abeysekera, 2014). As a government-owned company, it has to aware of the interests of the public and so should disclose more social related activities because government operations are always monitored by the public (Mohd Ghazali, 2007). As government body is politically sensitive and trusted by the people, it has to create more pressure on the companies for disclosing information related to stakeholders (Muttakin and Subramaniam, 2015). Hence, it is predicted that government ownership affects significantly and positively on CSD. But, the previous empirical literature provides mixed results. For example, Suwaidan et al. (2004), Mohd Ghazali (2007), and (Lim et al. (2008), Mohd Ghazali (2007)) find a significant positive association between government ownership and CSD. Alotaibi and Hussainey (2016) find a significant negative relationship between government ownership and CSD. In contrast, some academicians find that there is a positive and insignificant relationship exists between government ownership and CSD (Ahmed Haji, 2013, Lu and Abeysekera, 2014, Naser et al., 2006, Khasharmeh and Suwaidan, 2010).

#### 2.8.2 Foreign Ownership

The greater percentage of foreign ownership of a company indicates more intention to practice foreign rules and regulations (Jeon et al., 2011). Bradbury (1991), and Haniffa and Cooke (2005) argue that stronger foreign ownership creates geographic distance among the owners and so higher level of disclosure expected from the shareholders of the foreign countries. Prior literature measures this variable in two different ways. Some researchers consider the percentage of shares owned by the foreign shareholders for measuring foreign

ownership (Haniffa and Cooke, 2005, Khan, 2010, Veronica Siregar and Bachtiar, 2010). Sufian and Zahan (2013) measure foreign ownership by considering a dummy variable equal to one for firms with foreign ownership and zero otherwise. Existing researcher finds mixed results on the relationship between foreign ownership and CSD. For example, Haniffa and Cooke (2005) and Khan (2010) find a significant and positive relationship between foreign ownership and CSD. In contrast, Sufian and Zahan (2013) provides evidence of an insignificant positive association between foreign ownership and CSD, whereas Veronica Siregar and Bachtiar (2010) finds an insignificant negative relationship.

# 2.8.3 Institutional Ownership

It indicates the percentage of shares owned by the institutional investors. Institutional owners play a fundamental role in changing corporate management behavior (Jensen and Meckling, 1976). Institutional investors treated as majority shareholders and they influence to the management for disclosing more information (Naser et al., 2006). Prior literature shows mixed results. For example, Majeed et al. (2015) find a significant positive relation between institutional ownership and CSD. On the other hand, Li and Zhang (2010) and Nurhayati et al. (2016) find an insignificant positive association between institutional owners and CSD. In addition, Naser et al. (2006), and Rashid and Lodh (2008) provide evidence of an insignificant negative relationship between institutional ownership and CSD.

# 2.8.4 Managerial Ownership

Managerial ownership indicates the percentage of shares owned by the directors. In an owner-managed company, the interests of the outsiders are relatively small, and the disclosures of CSR information may be less (Mohd Ghazali, 2007). Eng and Mak (2003) find that the lower percentage of managerial ownership increases disclosures information. Hence, it is expected that there is a negative relationship between managerial ownership and CSD. Prior literature supports the negative association between managerial ownership and CSD. But, some studies find a significant impact of managerial ownership on CSD (Razak and Mustapha, 2013, Rashid and Lodh, 2008, Mohd Ghazali, 2007), whereas Ahmed Haji (2013), Deschênes et al. (2015), and Supriyono et al. (2015) find an insignificant relationship between managerial ownership and CSD.

#### 2.8.5 Concentrated Ownership

Concentrated ownership indicates the possession which occupied by few shareholders or family members (Mohd Ghazali and Weetman, 2006). It is a necessary component of effective corporate governance (Shleifer and Vishny, 1997). According to agency theory, the widely dispersed ownership company faces more agency-principal conflicts (Fama and Jensen, 1983). Accordingly, public accountability becomes vital for the widely held companies because these enterprises have a greater chance of being detained by the public as a whole (Mohd Ghazali, 2007) and such companies have to provide substantial social information (Ahmed Haji, 2013). Hence, it is our expectation that concentrated ownership and corporate social disclosures (CSD) express the significant negative relationship. Prior academic literature has scrutinized on the relationship between concentrated ownership and CSD, and the previous results provide controversial findings. For example, Lu and

Abeysekera (2014) finds a significant negative relationship between concentrated ownership and CSD. In Contrary, Sufian and Zahan (2013), and Majeed et al. (2015) find an insignificant and positive association between concentrated ownership and CSD. In addition, some studies found insignificant and negative impact of concentrated ownership on CSD (Rashid and Lodh, 2008, Mohd Ghazali, 2007, Li and Zhang, 2010, Naser et al., 2006).

# 3. Research Methodology

# 3.1 Sample

For the meta-analysis, the previous 29 studies published ranging from 2004 to 2016 yielding 5437 sample size has considered. All of the articles in the meta-analysis has been collected from the top journal publishers around the world to select the studies which examine the determinants of corporate social disclosures in the context of corporate governance. The study gives importance on the good impact factor journals or books abstracted and indexed by the Thomson Reuters, The Association of Business Schools (ABS), Scopus, and Australian Business Deans Council (ABDC) databases. The characteristics of the selected sample studies have shown in Tables 1 & 2.

[Insert Table 1]
[Insert Table 2]

#### 3.2 Research Instrument

This study attempts to conduct the meta-analysis technique of Hunter et al. (1982) to reconcile the mixed results of conflicting views of the prior studies. In the current study, the meta-analysis methodology is also a similar nature of other researchers (Hunter and Schmidt, 1990, Rosenthal, 1991, Ahmed and Courtis, 1999, Khlif and Souissi, 2010, Souissi and Khlif, 2012, Eddine et al., 2015, Siddiqui, 2015).

The narrative analysis of the previous literature is not appropriate because the nature of the previous studies vary due to variations of sample size, time, country and other characteristics. Moreover, researchers found different results from various studies (Hunter and Schmidt, 1990). According to Ahmed and Courtis (1999), "Meta-analysis enables to give consistent results and overcome the problems of narrative findings." Meta-analysis is a statistical technique to reconcile the mixed results of the prior studies (Souissi and Khlif, 2012) and it evaluates the different consequences of the results from the previous studies (García-Meca and Sánchez-Ballesta, 2009). The best definition provided by Glass (1976) as of meta-analysis is a technique by which the findings of the extensive collection of studies accumulated.

In the existing literature of meta-analysis technique, the degree of association between dependent and independent variables are measured using the effect size which is called the coefficient of correlation (r). In this paper, the value of r is calculated for each study sample to measure effect size of each explanatory variable. The value of r is computed based on t-

statistic by following the prior studies (Hunter et al., 1982, Ahmed and Courtis, 1999, Khlif and Souissi, 2010, Souissi and Khlif, 2012, Siddiqui, 2015, Eddine et al., 2015) as follows:

 $r = \sqrt{t^2/(t^2 + df)}$ , where df means degrees of freedom. The limitation of this formula, it generates only absolute numbers. Hence, by following khlif et al. (2015), we convert the sign of the effect size (r) based on the regression coefficient.

The following five steps to be followed step-by-step to reach a conclusion by using the meta-analysis technique of Hunter et al. (1982):

Step-1: First, we have to determine the mean correlation ( $\overline{r}$ ) which is computed as follows:

$$\overline{r} = \frac{\sum (Niri)}{\sum Ni}$$

Where, Ni = Sample size for study i and ri = effect size or Pearson correlation coefficient for study i.

Step-2: Once the  $\overline{r}$  is calculated, the next step is to compute the unbiased estimate of the population variance  $(S_p^2)$  which is as:  $S_p^2 = S_r^2 - S_e^2$ , Where  $S_r^2$  means the observed variance which is computed as follows:

$$S_r^2 = \frac{\sum Ni (ri - \overline{r})^2}{\sum Ni}$$

And  $S_{e}^{2}$  means the estimate of sampling error variance which is computed as follows:

$$S_e^2 = \frac{K(1-\overline{r}^2)^2}{\sum Ni}$$
, Where K = The number of individual

studies for the meta-analysis.

Step-3: In this step, we have to compute the unbiased estimate of population standard deviation  $(S_p)$  which has calculated as follows:

$$S_p = \sqrt{S^2}_p$$

Step-4: Here, 95% confidence interval is to be calculated based on the unbiased estimate of the population standard deviation  $S_p$  and the mean correlation  $\overline{r}$  as follows:

$$[\overline{r} - Sp (1.96), \overline{r} + Sp (1.96)]$$

Step-5: This is the final step where a Chi-square ( $\kappa^2$ ) statistic test is proposed to test the heterogeneity issues and make a decision about further analysis on the study variables as follows:

$$\varkappa^2 = K \frac{S^2 r}{S^2 e}$$

#### 4. Empirical Results

Table 3 summarizes the meta-analysis results of all the explanatory variables. The table shows whether there is any significant or insignificant impact of CG on CSD. In addition, Table 4 to Table 6 explains the subgroups analysis of the studies on the basis of the developed and developing countries (where applicable). The subgrouping analysis assists in removing heterogeneity (Eddine et al., 2015).

The empirical results have analyzed separately for each variable as follows:

# 4.1 Board Independence

The general meta-analysis results of Table 3 provides an insignificant positive association ( $\overline{r}$  = 0.086, 95% confidence interval -0.1863; 0.3583) between board independence and CSD using 3620 sample sizes of 17 studies. The inclusion of zero within the confidence intervals indicates no true correlation, thus, the association shows insignificant. The results is similar with Razak and Mustapha (2013), Lim et al. (2008), and Nurhayati et al. (2016). To test the heterogeneity, the chi-square statistic applies here. The chi-square statistic value ( $\varkappa^2_{k-1}$  = 88.33) is significant (p < 0.01) which means homogeneity test is rejected. At the same time, the sampling error variance accounts for 19.25% of the observed variance. Therefore, further analysis needed to remove heterogeneity and in Table 4, we split the total studies into developed and developing countries. Both the studies of developed ( $\overline{r}$  = 0.1737, 95% confidence interval -0.0675; 0.4145) and developing ( $\overline{r}$  = 0.0698, 95% confidence interval -0.1968; 0.3364) countries indicates an insignificant positive association. The sub-group analysis indicates no effect on the association between board independence and CSD due to the differences of country of study.

[Insert Table 4]

#### 4.2 Board Size

Table 3 shows a significant positive association between ( $\overline{r}=0.1209$ , 95% confidence interval 0.0425; 0.1993) board size and CSD using 2228 sample sizes of 15 studies. This result is consistent with other researchers, e.g., (Javaid Lone et al., 2016, Majeed et al., 2015, Giannarakis, 2014b, Supriyono et al., 2015, Alotaibi and Hussainey, 2016, Veronica Siregar and Bachtiar, 2010, Barakat et al., 2015). In addition, the chi-square statistic value ( $\kappa^2_{k-1}=18.69$ ) indicates acceptance of homogeneity test. At the same time, the sampling error variance accounts for 80.25% of the observed variance. As there is no heterogeneity problems, no further analysis needed.

#### 4.3 Board Gender Diversity

The overall meta-analysis results on the association between board gender diversity and CSD are presented in Table 3. Using 2081 sample size of 9 studies provide an evidence of an insignificant positive association ( $\bar{r}=0.1039$ , 95% confidence interval -0.0820; 0.2898). Similar results find by D.Sundarasen et al. (2016), Giannarakis (2014a), Khan (2010), and Giannarakis (2014b). The chi-square statistic applies here to check the heterogeneity. The chi-square statistic value ( $\kappa^2_{k-1}=28.29$ ) is significant (p < 0.01) which means homogeneity test is rejected. At the same time, the sampling error variance accounts for 31.82% of the observed variance. Therefore, we split the total studies into developed and developing countries to remove heterogeneity in Table 5. The studies of developed countries provide significant positive association ( $\bar{r}=0.0695$ , 95% confidence interval 0.0107; 0.1283) consistent with Deschênes et al. (2015). In contrast, the studies of developing countries indicate an insignificant positive association ( $\bar{r}=0.1198$ , 95% confidence interval -0.0940;

0.3336) consistent with D.Sundarasen et al. (2016) and (Khan, 2010). Thus, the relationship between board gender diversity and CSD affected by the differences of country of study.

## [Insert Table 5]

# 4.4 Frequency of Board Meetings

The overall meta-analysis results for the frequency of board meetings of Table 3 show a mean correlation ( $\bar{r}$ ) of 0.0399 with the 95% confidence interval between 0.0399 and 0.0399 indicates a significant positive association with CSD. The result is inconsistent with other studies. The chi-square statistic ( $\chi^2_{k-1} = 2.05$ ) of Table 3 indicates acceptance of homogeneity test. At the same time, the sampling error variance accounts for 100% of the observed variance. As there is no heterogeneity problem, no further analysis needed.

## 4.5 Composition of Non-Executive Directors

The general meta-analysis results of Table 3 provides an insignificant positive association ( $\overline{r}$  = 0.0575, 95% confidence interval -0.1865; 0.3015) between composition of non-executive directors and CSD using 1362 sample sizes of 4 studies. The inclusion of zero within the confidence intervals indicates no true correlation, thus, the association shows insignificant. The result is inconsistent with other studies. The subgroup meta-analysis technique is not applied here because all of the studies relating to this variable are the case of developing countries.

# 4.6 CEO Duality

The general meta-analysis results of Table 3 provides an insignificant negative association ( $\overline{r}$  = -0.077, 95% confidence interval -0.1994; 0.0454) between CEO duality and CSD using 2130 sample sizes of 7 studies. The inclusion of zero within the confidence intervals indicates no true correlation, thus, the association shows insignificant. Similar result find by Razak and Mustapha (2013) and Lim et al. (2008). In addition, the chi-square statistic ( $\kappa^2_{k-1}$  = 15.53) of Table 3 indicates the existence of heterogeneity. Therefore, the sub-group analysis (Table-6) has divided the studies into developed and developing countries. Both the studies of developed ( $\overline{r}$  = -0.1092, 95% confidence interval -0.2532; 0.0348) and developing ( $\overline{r}$  = -0.0654, 95% confidence interval -0.1691; 0.0383) countries indicates an insignificant negative association. The sub-group analysis indicates no effect on the association between CEO duality and CSD due to the differences of country of study.

[Insert Table 6]

## 4.7 Auditors' Credibility

Table 3 shows a significant positive association between ( $\overline{r} = 0.059$ , 95% confidence interval 0.059; 0.059) auditors' credibility and CSD using 1564 sample sizes of 5 studies. This result is consistent with D.Sundarasen et al. (2016). In addition, the chi-square statistic value ( $\kappa^2_{k-1} = 3.75$ ) indicates acceptance of homogeneity test. At the same time, the sampling error

variance accounts for 100% of the observed variance. As there is no heterogeneity problem, no further analysis needed.

# 4.8 Diversity of Ownership

## 4.8.1 Government Ownership

Table 3 provides an insignificant positive association ( $\overline{r} = 0.1724$ , 95% confidence interval --0.0920; 0.4368) between government ownership and CSD using 1332 sample sizes of 8 studies. The inclusion of zero within the confidence intervals indicates no true correlation, thus, the association shows insignificant. The result is consistent with other studies (Ahmed Haji, 2013, Lu and Abeysekera, 2014, Naser et al., 2006, Khasharmeh and Suwaidan, 2010). The subgroup meta-analysis technique is not applied here because all of the studies relating to this variable are the case of developing countries.

# 4.8.2 Foreign Ownership

The meta-analysis results of Table 3 shows an insignificant positive association ( $\overline{r} = 0.1735$ , 95% confidence interval -0.0439; 0.3909) between foreign ownership and CSD using 326 sample sizes of 4 studies. The inclusion of zero within the confidence intervals indicates no true correlation, thus, the association shows insignificant. The result is consistent with Sufian and Zahan (2013). The subgroup meta-analysis technique is not applied here because all of the studies relating to this variable are the case of developing countries.

# 4.8.3 Institutional Ownership

The general meta-analysis results of Table 3 presents an insignificant positive association ( $\overline{r}$  = 0.0261, 95% confidence interval -0.0472; 0.0994) between institutional ownership and CSD using 993 sample sizes of 5 studies. The inclusion of zero within the confidence intervals indicates no true correlation, thus, the association shows insignificant. The result is consistent with Li and Zhang (2010) and (Nurhayati et al., 2016). The subgroup meta-analysis technique is not applied here because all of the studies relating to this variable are the case of developing countries.

# 4.8.4 Managerial Ownership

The overall meta-analysis results for the managerial ownership of Table 3 show a mean correlation ( $\overline{r}$ ) of -0.1289 with the 95% confidence interval between -0.1289 and -0.1289 indicates a significant negative association with CSD. Similar findings find by Razak and Mustapha (2013), Rashid and Lodh (2008), and Mohd Ghazali (2007). The chi-square statistic ( $\varkappa^2_{k-1} = 4.89$ ) of Table 3 indicates acceptance of homogeneity test. At the same time, the sampling error variance accounts for 100% of the observed variance. As there is no heterogeneity problem, no further analysis needed.

# 4.8.5 Concentrated Ownership

The general meta-analysis results of Table 3 identifies a significant negative association ( $\overline{r}$  = -0.022, 95% confidence interval -0.022; -0.022) between concentrated ownership and CSD using 1165 sample sizes of 7 studies. The result is consistent with Lu and Abeysekera (2014). The subgroup meta-analysis technique is not applied here because all of the studies relating to this variable are the case of developing countries.

# 5. Concluding Remarks and Future Research Directions

The study investigates the impacts of corporate governance (CG) variables on the corporate social disclosures (CSD). Prior studies used meta-analysis technique to determine the determinants of CSD but in different ways. Also, this is the first meta-analytical review on the relationship between CG and CSD. Hence, the study incorporates the result of 29 previous studies on the link between CG and CSD. In the present paper, we include 12 explanatory variables of corporate governance such as board independence, board Size, board gender diversity, the frequency of board meetings, the composition of non-executive directors, CEO duality, auditors' credibility, government ownership, foreign ownership, institutional ownership, managerial ownership, and concentrated ownership.

The results of the comprehensive meta-analysis found that board Size, the frequency of board meetings, and auditors' credibility are significantly and positively associated with CSD. Both the managerial and concentrated ownership are also a significant but negative association with CSD. In contrast, board independence, board gender diversity, the composition of non-executive directors, government ownership, foreign ownership, and institutional ownership are insignificantly and positively associated with CSD. CEO duality also insignificant with CSD but indicates a negative association. The study also uses the subgrouping analysis based on country differences. The findings indicate that only the association between board gender diversity and CSD affected by the differences of the country of study. The association reveals significant positive for the developed countries but insignificant positive for the developing countries.

Although this study is the first meta-analytical review for examining the impact of CG on CSD, the study faces limitations as well. It excludes the various corporate characteristics as determinants of CSD. Therefore, further study should investigate by considering all of the variables besides CG like firm size, leverage, profitability, firm age, industry type, etc. Regardless of these limitations, we predict that the empirical findings of this study will be beneficial for the future researcher to develop the theory on the link between CG and CSD.

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Table 1: Selected sample studies for the meta-analysis

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Abstra	Thomson Reuters	>	>	>	>	>	>	>	>	×	>	>	>	×	>	>
Sample year		2011 & 2012	2002-2006	Between 2007 & 2011	2010	2010-2014	2011	1996 & 2002	2007-2008	2003	2007-2011	2008-2012	2003-04 to 2006-07	2010	2001	2007
Sample	size	450	174	468	200	250	100	139	30	743	100	125	08	70	87	692
Country		Malaysia	Canada	Jordan	Malaysia	Pakistan	USA	Malaysia	Bangladesh	Malaysia	Pakistan	Turkey	Bangladesh	Bangladesh	Malaysia	China
Journal		Corporate Governance: The International Journal of Business in Society	International Journal of Managerial Finance	Journal of Financial Reporting and Accounting	Jurnal Teknologi	Corporate Governance: The International Journal of Business in Society	Social Responsibility Journal	Journal of Accounting and Public Policy	International Journal of Law and Management	International Journal of Behavioural Accounting and Finance	International Journal of Financial Studies	Corporate Governance: The International Journal of Business in Society	Research in Accounting in Emerging Economies	International Journal of Economics and Financial Issues	Corporate Governance: The International Journal of Business in Society	Journal of Business Ethics
Study		(D.Sundarasen et al., 2016)	(Dunn and Sainty, 2009)	Ibrahim and Hanefah (2016)	Razak and Mustapha (2013)	Javaid Lone et al. (2016)	Giannarakis (2014a)	Haniffa and Cooke (2005)	Khan (2010)	Lim et al. (2008)	Majeed et al. (2015)	Kiliç et al. (2015)	Rashid and Lodh (2008)	Sufian and Zahan (2013)	Mohd Ghazali (2007)	
No.		-	7	3	4	5	9	7	8	6	10	11	12	13	14	15

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2004-2008	2011	2009		2012 14	2013-14	2003		2006 & 2009	2011		2011		2011	2008		1999-00	2010	2001		2006	
192	998	181		171	1/1	87		85	101		100		100	100		21	100	99		09	
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Corporate Governance: The International Journal of Business in Society	International Journal of Law and Management	International Journal of Monetary Economics	and Finance	F	International Journal of Disclosure and Governance	International Journal of Islamic and Middle	Eastern Finance and Management	Managerial Auditing Journal	Review of Managerial Science		International Journal of Information Systems	and Change Management	Social Responsibility Journal	Journal of Cleaner Production		Advances in International Accounting	Social Responsibility Journal	International Journal of Accounting, Auditing	and Pertormance Evaluation	International Journal of Accounting, Auditing	and Performance Evaluation
Deschênes et al. (2015)	Giannarakis (2014b)	Supriyono et al. (2015)		A 1 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Alotaioi and riussainey (2016)	Veronica Siregar and	Bachtiar (2010)	Ahmed Haji (2013)	Barakat et al. (2015)		Giannarakis (2013)		Ling and Sultana (2015)	Lu and Abeysekera	(2014)	Naser et al. (2006)	Nurhayati et al. (2016)	Suwaidan et al. (2004)		(Khasharmeh and	Suwaidan (2010))
16	17	18		01	61	20		21	22		23		24	25		56	27	28		56	

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Table 2: Results of Pearson's Correlation Coefficient (r) or Effect Size

BIND   BKZ   BKD   CNED   COWN   CO	Š	Study				Expl	anatory var	riables with	Pearson's	correlation	n coefficient	(r)			Source of
1         Downsubarsers of Li20(s)         0.116         0.056         0.148         0.114         0.114         1.10bcl           2         Down and Stavity (2009)         0.175         0.186         0.186         0.056         0.074         0.056         0.078		•	BIND	BSZ	BGD	FBM	CNED	CEOD	AUDC	GOWN	FOWN	IOWN	MOWN	COWN	Information
2         Dumn and Stinity (2009)         0.175         0.186         1.066 <td>1</td> <td>D.Sundarasen et al. (2016)</td> <td>-0.116</td> <td></td> <td>0.106</td> <td></td> <td>0.036</td> <td>-0.148</td> <td>0.114</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Table V, p. 44</td>	1	D.Sundarasen et al. (2016)	-0.116		0.106		0.036	-0.148	0.114						Table V, p. 44
3         Ibrahum and Lone et al. (2016)         0.188         0.188         0.056         0.1056         0.188         0.189	2	Dunn and Sainty (2009)	0.175												Table V, p. 417
4         Roazde and Mussipha (2013)         0.068         0.068         0.068         0.068         0.068         0.068         0.068         0.068         0.068         0.058         0.010         0.024         0.110         0.010         0.0183         0.013         0.124         0.110         0.018         0.018         0.018         0.018         0.028         0.012         0.0110         0.028         0.0110         0.018         0.018         0.0110         0.018         0.018         0.0110         0.028         0.0124         0.0110         0.018         0.018         0.0110         0.018         0.018         0.019         0.0110         0.028         0.029         0.019         0.028         0.029         0.028         0.029         0.018         0.028         0.029         0.028         0.029         0.028         0.029         0.028         0.029         0.028         0.029         0.028         0.029         0.028         0.029         0.028         0.029         0.028         0.029         0.028         0.029         0.028         0.029         0.029         0.029         0.029         0.029         0.029         0.029         0.029         0.029         0.029         0.029         0.029         0.029	3	Ibrahim and Hanefah (2016)	0.286		0.186										Table VII
5         Havaid Lone et al. (2016)         0.283         0.183         0.184         Table of Contractact (2014)         0.284         0.083         0.183         0.184 </td <td>4</td> <td>Razak and Mustapha (2013)</td> <td>0.058</td> <td>0.065</td> <td></td> <td></td> <td></td> <td>-0.056</td> <td></td> <td></td> <td></td> <td></td> <td>-0.124</td> <td></td> <td>Table 4, p. 78</td>	4	Razak and Mustapha (2013)	0.058	0.065				-0.056					-0.124		Table 4, p. 78
6         Cianamarkis (2014a)         -0.121         -0.015         -0.024         -0.110         -0.024         -0.110         -0.024         -0.0183         -0.0184         -0.0183         -0.0183         -0.0183         -0.0183         -0.0184         -0.0183         -0.0183         -0.0184         -0.0183         -0.0184         -0.0184         -0.0184         -0.0184         -0.0184         -0.0184         -0.0184         -0.0184 <th< td=""><td>2</td><td>Javaid Lone et al. (2016)</td><td>0.283</td><td>0.157</td><td>0.128</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Table 5</td></th<>	2	Javaid Lone et al. (2016)	0.283	0.157	0.128										Table 5
7         Hamiffia and Cooke (2005)         — 0.254         — 0.183         — 1 Table VI Cooke (2005)         — 2 Table VI Cooke	9	Giannarakis (2014a)	-0.121	-0.115	890.0	0.092		0.110							Table IV, p. 581
8         Khan (2010)         0.704         0.623         0.85         0.585         0.585         Table VI           9         Line tal. (2008)         0.081         0.106         -0.088         0.058         0.058         0.057         0.079         0.177         0.071         0.077         0.071         0.077         0.070         0.077         0.070         0.077         0.070         0.077         0.070         0.077         0.070         0.077         0.070         0.077         0.070         0.077         0.070         0.077         0.070         0.077         0.070         0.077         0.070         0.077         0.070         0.077         0.070         0.077         0.001         0.077         0.001         0.077         0.001         0.077         0.001         0.077         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.001         0.014         0.014         0.023         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.003         0.004	7	Haniffa and Cooke (2005)					-0.254				0.183				Table 6, p. 415
9   Lime et al. (2008)         0.028         0.106         -0.058         0.058         0.057         Table Solution and Lead (2015)         -0.073         0.172         -0.073         0.172         -0.073         0.057         -0.013         -0.035         <	~	Khan (2010)			0.704		0.623				0.585				Table VIII, p. 100
10   Majecet et al. (2015)   0.073   0.187   -0.001   0.001   0.087   -0.001   0.087   -0.002   0.087   -0.002   0.087   -0.002   0.087   -0.002   -0.003	6	Lim et al. (2008)	0.028				0.106	-0.058	0.058	0.267					Table 4, p. 81
11         Kiliç et al. (2015)         -0.007         0.087         -0.001         0.087         -0.001         Table 3         Table 3 <t< td=""><td>10</td><td>Majeed et al. (2015)</td><td>-0.073</td><td>0.187</td><td>-0.172</td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.211</td><td></td><td>0.059</td><td>Table 5, p. 543</td></t<>	10	Majeed et al. (2015)	-0.073	0.187	-0.172							0.211		0.059	Table 5, p. 543
12         Reshid and Loth (2008)         0.365         9         0.081         0.194         0.138         0.246         0.135         Table 3           13         Suffian and Zahan (2007)         0.081         0.081         0.081         0.093         0.093         1able 5           14         Mode and Zahan (2007)         0.086         0.180         0.180         0.180         0.095         0.180         0.093         1able 5           15         Li and Zhang (2010)         0.038         0.080         0.180         0.019         0.019         0.023         0.003         1able 5           16         Descheves et al. (2015)         0.067         0.180         0.001         0.019         0.028         0.003         1able 1           17         Aloutio in and Hussainey (2016)         0.162         0.177         0.019         0.028         0.019         0.003         0.000         1able 4           20         Veronica Siregar and Bachtiar (2015)         0.067         0.131         0.078         0.190         0.028         0.019         0.000         0.000         1able 4           21         Ahmed Haji (2013)         0.089         0.199         0.028         0.000         0.086         0.086         0.0	11	Kiliç et al. (2015)	-0.007	0.087	-0.001										Table 3
13         Suffann and Zahan (2013)         - 6.081         - 6.081         - 6.081         - 6.081         - 6.0165         Table 3         Table 3         - 6.0165         Table 3         Table 3         - 6.0165         Table 3         Table 3         - 6.0053         Table 3         - 6.0063         Table 4         - 6.0063         Table 4         - 6.0063         Table 4         - 6.0063         Table 5         - 6.0071         - 6.0063         Table 5         - 6.0071	12	Rashid and Lodh (2008)	0.365									-0.138	-0.246	-0.135	Table 8, p. 228
14         Mohd Chazali (2007)         9         9         0.233         0.236         -0.105         Table 5           15         Li and Zhang (2010)         0.085         0.180         0.085         0.180         0.085         0.180         0.095         0.180         0.001         0.0147         0.0147         0.0147         0.0147         0.0147         0.0147         0.0147         0.0147         0.018         0.018         0.018         0.017         0.018         0.018         0.017         0.018         0.018         0.019         0.028         0.019         0.028         0.019         0.009         0.019         0.028         0.019         0.001         1.018         0.011         1.018         1	13	Sufian and Zahan (2013)		-0.081							0.194				Table 3, p. 906
15         Li and Zhang (2010)         6.096         0.180         9.095         0.180         9.095         0.180         9.095         0.180         9.018         9.018         9.018         9.018         9.018         9.019         9.014	14	Mohd Ghazali (2007)								0.233			-0.296	-0.105	Table 5, p. 260
16         Describenes et al. (2015)         0.308         0.180         0.180         0.180         0.180         0.181         0.177         0.012         0.001         0.0147         0.0147         0.019         0.0147         0.0147         0.019         0.0147         0.0147         0.019         0.0147         0.0147         0.018         0.181         0.181         0.181         0.181         0.181         0.181         0.181         0.181         0.014         0.184         0.181         0.024         0.184         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.194         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.044         <	15	Li and Zhang (2010)										0.022		-0.0003	Table V, p. 639
17         Giannarakis (2014b)         0.177         0.012         0.001         0.0147         0.012         0.001         0.0147         0.017         1 Table Volunts (2015)         0.162         0.153         0.018         0.019         0.028         -0.190         0.028         -0.190         0.001         0.001         1 Table Volunts (2015)         0.067         0.131         0.073         0.024         0.028         0.019         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.024         0.034	16	Deschênes et al. (2015)	0.308	0.095	0.180								-0.083		Table II, p. 302
18         Supriyono et al. (2015)         0.162         0.153         0.078         0.109         -0.028         -0.190         -0.071         Table 5           19         Alotatibi and Hussainey (2016)         -0.067         0.131         0.078         0.109         -0.028         -0.190         -0.001         0.001         1.2able 1           20         Veronica Siregar and Bachtiar (2016)         -0.080         0.217         -0.024         0.124         0.124         0.088         1.able 1           21         Ahmed Haji (2013)         -0.094         0.284         0.019         -0.047         0.047         1.able 1           22         Barakat et al. (2015)         0.208         0.130         0.119         0.073         0.038         1.able 1           23         Cianmarakis (2013)         0.208         0.130         0.199         -0.047         1.able 1           24         Ling and Sultana (2015)         0.208         0.130         0.18         1.able 1           25         Lu and Abeyskera (2014)         0.57         1.able 1         1.able 3           26         Narradyati et al. (2016)         0.057         1.able 3         1.able 3           28         Suwaidan et al. (2004)         0.057	17	Giannarakis (2014b)		0.177	0.012	0.001		-0.147							Table VI, p. 408
19         Alotatibi and Hussainey (2016)         -0.067         0.131         0.078         0.109         -0.024         -0.109         -0.0001         -0.0001         -0.086         0.088         Table 10           20         Vertonica Siregar and Bachtiar (2013)         -0.080         0.217         -0.024         -0.024         -0.094         0.284         -0.089         0.217         -0.024         -0.094         0.284         -0.089         0.019         -0.094         0.119         -0.094         0.019         -0.094         0.019         -0.094         0.019         -0.019         -0.094         0.019         -0.019         -0.094         0.019         -0.019         -0.094         0.019         -0.019         -0.017         1able 10         1able 10<	18	Supriyono et al. (2015)	0.162	0.153									-0.071		Table 5, p. 156
20         Veronica Siregar and Bachtiar (2010)         0.187         — 0.024         — 0.027         —	19	Alotaibi and Hussainey (2016)	-0.067	0.131		0.078		0.109	-0.028	-0.190					Table 4, p. 18
21         Ahmed Haji (2013)         -0.080         0.217         -0.024         -0.024         -0.024         -0.024         -0.024         -0.024         -0.024         -0.024         -0.024         -0.024         -0.024         -0.024         -0.028         -0.048         0.119         -0.190         -0.047         m         -0.190         -0.047         m         -0.151         -0.151         -0.151         -0.151         -0.151         -0.151         -0.151         -0.151         -0.151         -0.151         -0.151         -0.151         -0.151         -0.151         -0.151         -0.152         Table 1         -0.152         Table 1         -0.151         -0.151         -0.151         -0.152         Table 2         -0.151         -0.151         -0.152         Table 3         -0.152         -0.152         Table 3         -0.151         -0.152         -0.152         -0.152         -0.152         -0.152         -0.152         -0.152         -0.152         -0.152         -0.152         -0.152         -0.152         -0.152         -0.152         -0.152         -0.	20	Veronica Siregar and Bachtiar (2010)		0.187							-0.0001				Table II, p. 248
22         Barakat et al. (2015)         -0.094         0.284         0.119         -0.047         -0.047         -0.047         -0.047         -0.047         -0.047         -0.040         -0.040         -0.040         -0.040         -0.040         -0.040         -0.040         -0.040         -0.040         -0.040         -0.079         Table 5           25         Lu and Abeysekera (2014)         0.057         0.057         0.057         0.057         0.057         0.057         0.057         0.057         0.057         0.057         0.050	21	Ahmed Haji (2013)	-0.080	0.217		-0.024				0.124			980:0-	0.088	Table VII, p. 668
23         Giannarakis (2013)         -0.048         0.119         -0.190         -0.047         0.047         0.038         Table 1           24         Ling and Sultana (2015)         0.208         0.130         0.0172         Table 5           25         Lu and Abeysekera (2014)         0.057         0.057         0.057         10.05         10.05         10.040	22	Barakat et al. (2015)	-0.094	0.284											Table 6
24         Ling and Sultana (2015)         0.208         0.130         -0.190         -0.047         mode         -0.172         Table Tabl	23	Giannarakis (2013)		-0.048		0.119									Table 4, p. 215
25         Lu and Abeysekera (2014)         — 0.172         Table 5           26         Naser et al. (2006)         0.057         — 0.057         — 0.079         Table :           27         Nurhayati et al. (2004)         0.057         — 0.057         — 0.057         — 0.040         — 0.040           28         Suwaidan et al. (2004)         — 0.057         — 0.057         — 0.050         — 0.040         — 0.040           29         (Khasharmeh and Suwaidan (2010))         — 0.057         — 0.050         — 0.050         — 0.050         — 0.050           Notes: BIND = Board Independence; BSZ = Board Size; BGD = Board Gender Diversity; FBM = Frequency of Board Meetings; CNED = Composition of Non-Executive Directors; CEOD = CEO         AUDC = Auditors' Credibility; GOWN = Government Ownership; FOWN = Foreign Ownership; MOWN = Managerial Ownership; COWN = Concentrated Ownership	24	Ling and Sultana (2015)	0.208	0.130				-0.190	-0.047						Table IV, p. 524
26         Naser et al. (2006)         0.057         10.057 <th< td=""><td>25</td><td>Lu and Abeysekera (2014)</td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.073</td><td>0.038</td><td></td><td></td><td></td><td>-0.172</td><td>Table 5, p. 434</td></th<>	25	Lu and Abeysekera (2014)							0.073	0.038				-0.172	Table 5, p. 434
Nurhayati et al. (2016) 6.057 Table 5  Suwaidan et al. (2004) 6.057 Table 6  Suwaidan et al. (2004) 7.005 Table 6  Suwaidan et al. (2004) 7.005 Table 6  Suwaidan et al. (2004) 7.005 Table 6  Subjective Diversity; FBM = Frequency of Board Meetings; CNED = Composition of Non-Executive Directors; CEOD = CEO AUDIC = Auditors' Credibility; GOWN = Government Ownership; FOWN = Foreign Ownership; IOWN = Institutional Ownership; MOWN = Managerial Ownership; COWN = Concentrated Ownership	26	Naser et al. (2006)								860.0		-0.161		-0.079	Table 5, p. 15
Suwaidan et al. (2004)  29 (Khasharmeh and Suwaidan (2010))  Notes: BIND = Board Independence; BSZ = Board Size; BGD = Board Gender Diversity; FBM = Frequency of Board Meetings; CNED = Composition of Non-Executive Directors; CEOD = CEO Auditors' Credibility; GOWN = Government Ownership; FOWN = Foreign Ownership; IOWN = Institutional Ownership; MOWN = Managerial Ownership; COWN = Concentrated Ownersh	27	Nurhayati et al. (2016)	0.057									0.040			Table 4
29 (Khasharmeh and Suwaidan (2010)) Table 8 Notes: BIND = Board Independence; BSZ = Board Size; BGD = Board Gender Diversity; FBM = Frequency of Board Meetings; CNED = Composition of Non-Executive Directors; CEOD = CEO AUDC = Auditors' Credibility; GOWN = Government Ownership; FOWN = Foreign Ownership; IOWN = Institutional Ownership; MOWN = Managerial Ownership; COWN = Concentrated Ownersh	28	Suwaidan et al. (2004)								0.230					Table 6, p. 443
Notes: BIND = Board Independence; BSZ = Board Size; BGD = Board Gender Diversity; FBM = Frequency of Board Meetings; CNED = Composition of Non-Executive Directors; CEOD = CEO Auditors' Credibility; GOWN = Government Ownership; FOWN = Foreign Ownership; IOWN = Institutional Ownership; MOWN = Managerial Ownership; COWN = Concentrated Ownersh	29	(Khasharmeh and Suwaidan (2010))								0.203					Table 8, p. 339
AUDC = Auditors' Credibility; GOWN = Government Ownership; FOWN = Foreign Ownership; IOWN = Institutional Ownership; MOWN = Managerial Ownership; COWN = Concentrated Ownership	Notes:	BIND = Board Independence; BSZ = Board	d Size; BG	D = Boar	d Gender	Diversity;	FBM = Fre	dnency of E	30ard Meet	tings; CNEI	O = Composi	ition of Non	-Executive D	irectors; CEC	D = CEO Duality;
	AUDC	= Auditors' Credibility; GOWN = Governm	ent Owners	ship; FOW	/N = Fore	ign Owner	ship; IOWN	= Institutio	nal Owners	ship; MOW	N = Manage	rial Ownersh	ip; COWN =	Concentrated	Ownership.

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Table 3: Meta-Analysis Results for all of the Explanatory Variables

(95%) Square $(\kappa_{k-1}^2)$
-0.1863; 0.3583 88.33**
-0.1863; 0.3583 0.0425; 0.1993 -0.0820; 0.2898
-0.1863; 0.3583 0.0425; 0.1993 -0.0820; 0.2898 0.0399; 0.0399***
-0.1863; 0.3583 0.0425; 0.1993 -0.0820; 0.2898 :0399; 0.0399*** -0.1865; 0.3015 -0.1994; 0.0454 0.059; 0.059***
-0.1863; 0.3583 -0.0425; 0.1993 -0.0820; 0.2898 -0.0399; 0.0399*** -0.1865; 0.3015 -0.1994; 0.0454 0.059; 0.059***
19.25 80.25 31.82 100 15.76 45.07 100
80.25 80.25 31.82 100 100 15.76 45.07
0.0193 0.0016 0.009 -0.0036 0.0155 0.0039 -0.0008
0.00 0.00 0.00 -0.00 0.01
0.0046 0.0065 0.0042 0.0061 0.0029 0.0032
0 0 0
0.0239
0.086

Table 4: Meta-Analysis Results for the Explanatory Variable Board Independence

Type of Analysis	Sample Study	Study		Observed	Estimated Error	Estimated Error Residual Variance % Explained	% Explained	Confidence	Chi-
	Size (N)	<b>(X</b> )	Correlation $(\overline{r})$	Variance (S²r)	Variance (S <sup>2</sup> <sub>e</sub> )	$(S_p^2 = (S_r^2 - S_e^2)$	$(S_e^2/S_r^2)$	Interval (95%)	Square $(\kappa^2_{k-1})$
General meta-analysis 3620	3620	17	980:0	0.0239	0.0046	0.0193	19.25	-0.1863; 0.3583	88.33*
Developed &									
Developing Countries									
Developed Countries	995	4	0.1737	0.0217	9900:0	0.0151	30.41	-0.0675; 0.4145	13.15*
Developing Countries	3054	13	8690.0	0.0227	0.0042	0.0185	18.50	-0.1968; 0.3364	70.26*
Notes: *Significant at 1%; Dependent Variable: Corporate Social Disclosures (CSD).	1%; Depender	nt Variable	: Corporate Socia	d Disclosures (	CSD).				

Table 5: Meta-Analysis Results for the Explanatory Variable Board Gender Diversity

Type of Analysis	Sample Study	Study	Mean	Observed	Estimated Error	Residual Variance	% Explained	Confidence	Chi-
	Size (N) (K)	<b>(X</b> )	Correlation $(r)$	$Variance (S^2_r)$	Variance (S <sup>2</sup> <sub>e</sub> )	$(S_{p}^{2} = (S_{r}^{2} - S_{e}^{2})$ $(S_{e}^{2}/S_{r}^{2})$	$(S_e^2/S_r^2)$	Interval (95%)	Square $(\kappa^2_{k-1})$
General meta-analysis	2081	6	0.1039	0.0132	0.0042	600.0	31.82	-0.0820; 0.2898	28.29*
Developed &									
Developing Countries									
Developed Countries	859	3	0.0695	0.0054	0.0045	0.0009	83.33	0.0107; 0.1283	$3.60^{a}$
Developing Countries 1423	1423	9	0.1198	0.016	0.0041	0.0119	25.63	-0.0940; 0.3336	23.41*
Notes: *Significant at 1%; Insignificant <sup>a</sup> ; Dependent Variable: Corporate Social Disclosures (CSD).	at 1%; Ins	ignifical	nt <sup>a</sup> ; Dependent	Variable: Co	orporate Social Dis	sclosures (CSD).			

Table 6: Meta-Analysis Results for the Explanatory Variable CEO Duality

Type of Analysis	Sample Study	Study	Mean	Observed	Estimated Error	Residual Variance	% Explained	Confidence	Chi-
	Size (N) (K)	( <del>K</del>	Correlation $(r)$	Variance (S <sup>2</sup> <sub>r</sub> )	Variance (S² e)	$(S_p^2 = (S_r^2 - S_e^2)$	$(S_e^2/S_r^2)$	Interval (95%)	Square $(\kappa^2_{k-1})$
General meta-analysis	2130	7	-0.07	0.0071	0.0032	0.0039	45.07	-0.1994; 0.0454	15.53*
Developed &									
Developing Countries									
Developed Countries	995	3	-0.1092	0.0106	0.0052	0.0054	49.06	-0.2532; 0.0348	6.12*
Developing Countries	1564	4	-0.0654	0.0053	0.0025	0.0028	47.17	-0.1691; 0.0383	8.48*
Notes: * Significant at 5%; Dependent Variable: Corporate Social Disclosures (CSD).	%; Depende	nt Variab	le: Corporate Soci	al Disclosures	(CSD).				