

Corporate Social Responsibility as a Strategic Shield Against Costs of Earnings Management Practices

Jennifer Martínez-Ferrero · Shantanu Banerjee ·
Isabel María García-Sánchez

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Abstract We highlight how Corporate Social Responsibility (CSR) can be strategically used against the negative perception from earnings management (EM). Using international data, we analyse the effect of CSR and EM on the cost of capital and corporate reputation. Results confirm that CSR strategy is positively valued by investors and other stakeholders. Contrary to EM, CSR has a positive effect on corporate reputation and lowers the cost of capital. In addition, we also find that the favourable effect of CSR on cost of capital is consistently more intense in firms that show signs of EM indicating that the market does not identify when CSR practices are used as a strategy to mask EM. We also demonstrate how institutional factors influence the above relationship.

Keywords Earnings management (EM) · Corporate Social Responsibility (CSR) · Cost of capital · Corporate reputation · Managerial discretion

Introduction

The emphasis on accounting discipline has increased sharply over the past decade and it forms the basis of good corporate governance. Corporate behaviour is scrutinized more intensively by all stakeholders including the regulators and the financial press. In our paper, we focus on earnings management (EM) practices and Corporate Social Responsibility (CSR). According to Zahra et al. (2005), the consequences of these discretionary practices affect investors, employees, customers and the local communities, which is eventually reflected in corporate reputation and, hence, the market value. Improvements in Earnings Quality lower information asymmetry affect the cost of capital (Francis et al. 2005, 2008a; Bhattacharya et al. 2003; Blanco et al. 2009). Furthermore, accounting practices could affect the value of companies, their stakeholder relationships, reputation and corporate image (Fombrun et al. 2000; Roychowdhury 2006).

On the other hand, CSR is playing an increasingly important part in the overall corporate strategy. But the reasons for companies to engage in these activities are still unclear and some articles point out that it decreases shareholders' equity (McWilliams and Siegel 2001). Others argue that CSR is a crucial strategic element for success in product market competition and it increases sales revenue, improves the company's reputation (Sen and Bhattacharya 2001) and reduces the market's perception of its business risk leading to a lower cost of capital.

These benefits have led to a dramatic growth of CSR practices in the industry, but the suspicion of 'green washing' rather than a whole-hearted commitment to social and environmental causes persists. Milne (2013) points out that in spite of a substantial increase in claims of sustainable practices by corporations and the communication of

J. Martínez-Ferrero · I. M. García-Sánchez
Departamento de Administración y Economía de la Empresa,
Facultad de Economía y Empresa, Universidad de Salamanca,
Edificio FES, 37007 Salamanca, Spain
e-mail: jenny_marfe@usal.es

I. M. García-Sánchez
e-mail: lajefa@usal.es

S. Banerjee (✉)
Department of Accounting and Finance, Lancaster University,
Lancaster LA1 4YX, UK
e-mail: s.banerjee@lancs.ac.uk

Table 1 Descriptive statistics

	Mean	Std. Dev.
r_{PEG}	0.0188	0.0226
CSR	-22.74	27.331
ENVIRONMENTAL INDEX	-2.53	7.875
HUMAN RIGHTS INDEX	-7.19	3.770
STAKEHOLDER INDEX	-13.02	18.891
BOARD INDEX	2.52	9.640
EM	0.007	0.375
SIZE	7.874	1.979
DEBT	0.676	0.110
RISK	1.212	8.265
WORKING CAPITAL	627.449	2840.651
INDUSTRY	2.894	1.703
R&D INTENSITY	0.179	4.909
REPUTATION	645 firm years (7.38 % are World's most admired)	
Sample	8,785 observations, 2006–2010, 26 countries	

r_{PEG} represents the implied cost of capital measured by the model by Easton (2004). EM represents the Earnings Management practices measured by the Dechow et al. (1995) model. CSR shows the CSR practices of company i for period t . Size represents the size of the company and is measured by the logarithm of its total assets. Debt shows the debt of the company and is calculated as the ratio of debt to equity. Risk represents the faced risk measured by the beta. Working_Capital represents liquidity, measured as the difference between current assets and current liabilities. Industry represents the economic sector of the company. R&D Intensity represents the ratio showing the R&D expenditure in comparison with the total of sales. REPUTATION is a dummy variable that represents whether the company is one of the most admired ones worldwide or not

the rationale in the past two decades, there has been no real increase in organisational transparency and accountability regarding their impact on the society and the environment. Banerjee (2007) provides a critical perspective by explaining that sustainable practices and CSR are narrowly defined in the financial press and in academic discourses, and the ideology is being used to legitimise the power of large corporations at a cost to societal interests. Delmas et al. (2013) point out that most of CSR ratings are developed by small and private organizations with limited transparency about the evaluation process. Furthermore, managers can use CSR practices as a means of self-promotion and personal benefits rather than a discretionary activity that promote sustainable growth going beyond their or the company's own welfare (Handelman and Arnold 1999; Banerjee 2007). Prior et al. (2008) and Gargouri et al. (2010), show that managers in companies that indulge in EM are more likely to carry out these discretionary practices, possibly in order to help them secure their jobs and increase compensation. We contribute to this literature by analysing the combined effect of EM and CSR to address whether CSR can be used to mask the effect of aggressive accounting practices on cost of capital and corporate reputation.

Our empirical analysis is based on a large sample of listed companies from 26 countries and covers the period from 2006 to 2010. The econometric models take account

of the level of investor protection and country-specific attitudes towards CSR to control for the institutional differences across our sample. EM practices are proxied by discretionary accruals, specifically by the modified Jones model (Dechow et al. 1995), which is the most commonly applied method in the literature. The proxy for CSR is compiled using global data on environment, human rights, stakeholder relations and board composition of companies provided by Ethical Investment Research Service (EIRIS). We measure the implied cost of capital using the price-earnings ratio divided by the short-term earnings growth rate. This widely used Price/Earnings to growth ratio (the PEG ratio) was proposed by Easton (2004) and we follow the method in El Ghouli et al. (2011), Botosan and Plumlee (2005), and Blanco et al. (2009) to construct this variable. Finally, we use the Fortune Index to measure Corporate Reputation. Following the method used by Fombrun and Shanley (1990) and Melo and Garrido-Morgado (2012), we create a dummy variable to identify a firm as one of the world's most admired companies based on the top 50 surveys and industry rankings for each year during the sample period.

We use the Arellano and Bond (1991) Generalized Method of Moments (GMM) estimator on the panel data to analyse the effect on cost of capital and use Logit models for Corporate Reputation. We show that EM practices lead to higher costs of capital and lower reputation. Based on

Table 2 Pairwise correlations

	1	2	3	4	5	6	7	8	9	10	11
1. <i>r_{PEG}</i>	1										
2. <i>REPUTATION</i>	-0.008	1									
3. <i>EM</i>	-0.074	0.035	1								
4. <i>CSR</i>	-0.296	0.156	0.192	1							
5. <i>DNCRI</i>	0.081	-0.010	-0.028	-0.205	1						
6. <i>DINVPROTECTION</i>	0.020	-0.089	-0.023	-0.110	0.040	1					
7. <i>Size</i>	-0.421	0.228	0.059	0.393	-0.371	-0.042	1				
8. <i>Debt</i>	-0.020	0.117	-0.020	-0.049	0.001	-0.008	0.035	1			
9. <i>Risk</i>	0.005	-0.027	-0.001	0.120	0.171	0.118	0.056	0.004	1		
10. <i>Working_capital</i>	-0.195	0.192	0.086	0.270	-0.131	0.052	0.192	0.049	0.088	1	
11. <i>R&DIntensity</i>	0.044	-0.106	0.019	0.114	0.020	0.079	0.127	0.052	-0.079	0.009	1

r_{PEG} represents the implied cost of capital measured by the model by Easton (2004). *REPUTATION* is a dummy variable that represents whether the company is one of the most admired ones worldwide or not. *EM* represents the Earnings Management practices measured by the Dechow et al. (1995) model. *CSR* shows the CSR score of company *i* for period *t*. *Size* represents the size of the company and is measured by the logarithm of its total assets. *Debt* shows the debt of the company and is calculated as the ratio of debt to equity. *Risk* represents the faced risk measured by the beta. *Working_Capital* represents liquidity, measured as the difference between current assets and current liabilities. *R&DIntensity* represents the ratio showing the R&D expenditure in comparison with the total of sales

the extant literature, we argue that this result is driven by the perceived uncertainty resulting in a discounting of the value of the information reported by the company engaging in EM practices. On the contrary, a lower rate of return is demanded by investors whose money is in companies promoting CSR practices, and more importantly the effect is significantly more favourable for firms engaging in EM. We also document that a company’s chances of being listed among the world’s most admired companies increase when they display positive CSR strategies. Unlike previous literature in this field, these results clearly highlight that CSR activities can be used to mask EM practices. This interpretation is supported by the theoretical arguments that point out that sustainability reporting by companies and the CSR scores, widely used by investors and stakeholders are difficult to decipher and companies might benefit from this information asymmetry and use these communications to clear their image, while having little or no real commitment to sustainable practices. Our analyses also show that the firms engaging in EM can avoid being punished through higher risk premium by engaging in CSR activities, particularly in countries with higher investor protection. To check for institutional difference in the pattern of the relationships, we divide the sample into civil law and common law countries. The shielding effect of CSR works well in civil law country, but markets in common law countries seem to penalize EM irrespective of CSR credentials.

In the next section, we discuss the related literature and establish a set of testable hypotheses. In “Methodology” section, we describe the sample, variables and empirical methodology used to test the hypotheses. In “Results”

section presents the results of our empirical analysis and discusses them. The concluding section summarises the main findings, point out the limitations of this study and suggest lines for possible future research.

Literature Review and Hypotheses

Earnings Management, Cost of Capital and Corporate Reputation

Accounting numbers should aim to portray a realistic picture of the financial flow and stock in the current year and smooth out transitory components to make the statements more representative. But the managers’ might intentionally manage accounting results for short-term personal benefits rather than for the interests of the shareholders and other stakeholders who would usually have a longer horizon (Healy and Wahlen 1999). EM¹ may be purely a financial recording decision in which the adjustments are done in the way facts are accounted for, usually by means of provisions, accruals adjustments or changes in criteria and repayment systems. Managers usually prefer this route:

¹ The basis of EM practices has been established by the Agency and the Positive Accounting theories. The conflict of interest arising from the separation between ownership and control (which is the basis of the Agency Theory) and information asymmetry between the two parties creates a vacuum where managers behave discretionarily, do not take into account shareholders’ interests and carry out EM practices. Positive Accounting Theory point out that accounting choice depends on firm characteristics as it is used to help the relationship between the managers and the stakeholders of firms, particularly the investors.



they are less visible and less costly, unlike 'real' EM decisions which affect the company's performance and operations, such as the optimal moment for selling or the selection of R&D projects. As noted by Gargouri et al. (2010), managers manipulate accounting results to smooth out income flows, to minimise the tax burden, to carry out changes in the control of the company, to influence labour negotiations or to respond to takeover bids. Healy and Wahlen (1999) differentiated these motivations as contractual, political/governmental and value-based. The consequences of these management practices can increase information asymmetry and reduce the value of the company, its reputation and its corporate image (Fombrun et al. 2000). We focus on the consequences of EM practices on the cost of capital and on company reputation.

Cost of capital determines the viability of business models and affects investment decisions and the value of the company fundamentally. A number of previous research papers have pointed out that the earnings quality decreases information asymmetries and the cost of capital (Francis et al. 2005, 2008a; Bhattacharya et al. 2003). Theory suggests that both investors and the market demand a higher rate of return from companies carrying out manipulative practices (Lambert et al. 2007) as these practices increase the perception of uncertainty about their financial health. Furthermore, EM overstates performance temporarily and it can be designed to benefit the myopic managers at a cost to long-term investors and stakeholders and these agency costs get reflected in the cost of capital. On the other hand, top-quality financial information and little or no EM practices signal credibility and lowers the information asymmetry between managers and investors and hence, the cost of capital.

We expect to find a positive relationship between EM practices and cost of capital in line with earlier studies by Francis et al. (2004, 2005), Gray et al. (2009), and Blanco et al. (2009):

H1a Earnings management practices increase the cost of capital.

Reputation could be defined as "a perceptual representation of a company's past actions and future prospects that describe the firm's overall appeal to all its key constituents when compared to other leading rivals" (Fombrun 1996, p. 72). Corporate Reputation depends on the information received by the public about that company's behaviour, via the press, the market or the company itself (Brammer and Pavelin 2004). Fombrun et al. (2000) and Roychowdhury (2006) point out the negative impact of these discretionary accounting practices on the value of companies, their transactions, their reputation and their corporate image. It also leads to loss of support from investors and other stakeholders, increased activism and surveillance by

interest groups and regulatory authorities, damage to corporate reputation and financing constraints (Fombrun et al. 2000). EM not only reduces the reputation of companies, but it can also lead to loss of reputation of the individual managers responsible for overseeing the reports when accounting scandals or aggressive EM practices come to light (Zahra et al. 2005). These practices reflect managerial short-sightedness or desperation and influence the concerned parties' opinion about the credibility of the management and the prospects of the company. Empirically, the effect of EM on corporate reputation has not been studied in depth but there is evidence of loss of reputation when small cases of fraud come to light (Francis et al. 2008b).

Our next hypothesis is based on the above logic. We expect a negative relationship between EM and reputation: manipulative accounting practices have a detrimental effect on companies' corporate reputation reflecting the loss of support from investors and non-financial stakeholders.

H1b Earnings management practices decrease corporate reputation.

Corporate Social Responsibility, Cost of Capital and Corporate Reputation

Companies can support the society by developing environmental protection systems and policies and implementing actions to promote relations with their customers, suppliers, employees and the community. CSR practices are appreciated as it generates positive externality by going over and above legal requirements, i.e., they are not legally enforceable (Basu and Palazzo 2008). According to the Stakeholders Theory, alignment of company objectives with that of their stakeholder groups and the community creates a valuable intangible asset that works through various channels to help the company achieve stability and higher growth in the long term (Titman 1984; Banerjee et al. 2008). The resource-based view of the firm points out that firm performance depends on the interplay of various tangible and intangible resources. Barney (1991) highlights that competitive advantage often depends on assets that are valuable, rare and inimitable, and the firms that hold them should be organized to deploy these resources effectively. Stakeholder relationships developed over time and meet these very restrictive criteria and hence should be relevant to parties trying to evaluate long-term prospects of the company. The Legitimacy Theory widens the Stakeholders Theory based on the argument that CSR is not only focused on stakeholders' needs and alignment of interests, but also on the principles coherent with some socially constructed system of norms, values and beliefs (Gray et al. 1995). Positive CSR strategies promote a climate of legitimacy

and support among regulators and stakeholders. They also dissuade activism and intervention by interest groups and increase job satisfaction and customer loyalty (Hong and Andersen 2011; Scholtens and Kang 2012). Positive stakeholder relationship leads to loyalty and develops corporate reputation and these can get reflected in higher market share, profits and financial stability in the long term. These effects would work in the same way even if the stakeholders and investors have an incomplete understanding of meaningful CSR and the firm tries to manipulate their perception to its advantage. This gives influential profit-making entities, like large corporations, incentive to try to distort the process of evaluation of CSR practices so that they can score highly with little effort or commitment.

Due to these dynamics, the perception of long-term business risk is reduced for companies that promote and carry out positive social and environmental actions and this may lead to lower the cost of capital (Gregory et al. 2011). El Ghoul et al. (2010) demonstrate that companies that implement good CSR policies have significantly lower cost of capital, and point out that investors and the market consider these companies less vulnerable and more trustworthy and they have a lower systematic risk. On the other hand, tobacco and nuclear power companies have a higher cost of capital as they are deemed risky due to the (possible) future costs to the community and a backlash effect on them.

Following the above evidence and arguments, we expect the following relationship

H2a Positive CSR strategies lead to a decrease in Cost of Capital.

CSR practices are increasingly being recognised as a strategic investment to improve or maintain corporate reputation. According to the stakeholder theory, a company's support to different stakeholder groups creates social capital, which help the company improve its financial stability and long-term performance (Carroll 1979; Donaldson and Preston 1995; Post et al. 2002). Loyalty and long-term support of stakeholders reinforces and improves the valuable intangible asset summarised as reputation of the company (Branco and Rodrigues 2006).

Williams and Barrett (2000) find evidence of a positive relationship between philanthropy and corporate reputation. CSR policies, when perceived as credible, improve the corporate image perceived by customers, suppliers, investors, banks and the market (Sen et al. 2006). These results are supported by Brammer and Pavelin (2004), Lai et al. (2010) and Melo and Garrido-Morgado (2012) who empirically confirm a positive effect of CSR on reputation and point out that corporate reputation is influenced by a wide range of strategies of which CSR practices have the

most significant effect. In line with the previous arguments and evidence, we proposed the following hypothesis

H2b Positive CSR strategies lead to an increase in corporate reputation.

Can CSR Practices be Used as a Strategic Shield Against Costs of Earnings Management Practices?

Corporations are profit-making entities and very few would subscribe to the idea that they can be persuaded to commit to environment and social policies that benefit the community at a cost to the shareholders and the management. The optimistic view is that CSR practices are long-term strategies that benefit all parties and shareholders, with a long horizon, should support them. However, the compensation structure of managers in most corporations is heavily based on current profits and stock price performance and it makes costly long-term strategies unattractive to them. The voluntary nature of these practices and their reporting allow the manager to design them to fit their own interests rather than to benefit the community and stakeholders (Buhr et al. 2014). Due to this, stakeholders often have a sceptical view on corporate claims about CSR practices (Bakan 2005; Barnett 2007). Indeed, managers can simply try to manipulate the perception about their commitment to CSR at minimum cost for short-term private benefits at a cost to the community and the long-term investors. These practices have been referred to as 'greenwashing' in the press. Gray (2006) questions the feasibility and even the desirability of shareholder value creation from positive social, environmental and sustainable practices and highlights the need to challenge the cosmetic adjustments that the current accounting system encourages. We have witnessed a steady growth in socially responsible investment funds in response to ethically motivated investors, but such funds are designed based on a reductionist view of sustainability that helps businesses to perpetuate their profit motive (Entine 2003; Hawken 2004; Haigh 2006). The emphasis on CSR scores as a measure of overall sustainable practices by investment managers and stakeholders enables large corporations to play to their strengths and increase the numerical value by concentrating on components they can influence more easily and with lower cost with little or no real care about sustainability. Chatterji et al. (2009) studies the ratings of Kinder, Lydenberg, Domini Research & Analytics (KLD) which is most widely used in the US and find that they do not use publicly available data optimally and KLD environmental strengths are poor predictor of future pollution and compliance violation. However, since most socially responsible investment strategies are based on these ratings, the resulting investments would reduce cost of capital of firms

with high CSR scores reinforcing the notion that CSR increases financial strengths and incentive corporations to keep on using the cosmetic strategies.

Prior et al. (2008) and Gargouri et al. (2010) report that companies whose managers engage in aggressive accounting policies and EM are more likely to display ethical and social policies. A plausible explanation of this positive association is the managers' aim of obtaining the support of stakeholders and reducing the risk of dismissal triggered by the negative effects of EM practices on the company's value and reputation. Cespa and Cestone (2007) point out that perceived commitment to CSR could, in effect, help to ensure the continuity in their leadership position by empowering them to fight challenges to their control on the company, to undertake labour negotiations and avoid activism and boycotts by various stakeholder groups. Prior et al. (2008) show that CSR is often implemented as a defensive tool to avoid negative reactions and subsequent surveillance by the stakeholders who might be affected by EM, thereby entrenching the managers' position in the company and allowing them to continue acting in their own interest (also see Surroca et al. 2010).

The possibility that CSR can be used as a shielding or entrenchment strategy to help reduce the negative reaction to EM practices raises the following research question: is the market able to identify the possible use of CSR as a shielding strategy? The market might be able to see through this and penalize these companies leading to a higher cost of capital and lower reputation. But even though investors, market and stakeholders are aware of this possibility, they may not have the necessary information. Insiders might manage earnings to portray a more realistic picture of the financial health of the company, rather than generate short-term private benefits. Investors and interest groups might consider investments in CSR as a signal of the company's long-term strategy and might discount concerns arising purely from EM practices, resulting in a favourable effect on cost of capital and corporate reputation. In this scenario, CSR activities would not only improve financing constraint and reputation on its own, but also can help compensate for loss of confidence from discretionary accounting choices. Because of this shielding effect, managers engaging in EM would find it worthwhile to pursue some degree of positive CSR even if they do not have a long-term commitment. If the market sees through this attempt, the gains from investments in CSR would become unattractive to the myopic managers and they might prefer to use the limited resource to improve their bottom-line and accounting quality and we might not see an overall negative association between EM and CSR practices. But the extant literature portrays a consistent positive link between the two and that can be explained from the shielding effect of CSR against costs of EM

practices. We test this argument using the following two hypotheses

H3a Positive CSR practices can be used strategically to shield against the negative effect of earnings management on the cost of capital.

H3b Positive CSR practices can be used strategically to shield against the negative effect of earnings management on corporate reputation.

Institutional Moderating Factors: National Approach to CSR and Investor Protection

The operating environment of the corporations plays an important role in their decision-making process and we try to capture these institutional factors. Institutional approaches towards CSR differ across countries as they evolve as a result of public pressure or the environmental normative context. According to Kolk and Perego (2008), social, political and regulatory pressure on a specific issue (in this case, CSR) in any country shape the institutional structure regulating this issue. For instance, Van Tulder and Van der Zwart (2006) illustrate that the American focus on CSR is neo-liberal and that the essential role played by the government focuses on strongly emphasizing sanctions, rules and laws. This is an instrumental view of CSR. On the contrary, the system in Europe is designed to promote companies' active role regarding CSR strategy and avoid the level of legal enforcement seen in the United States. As for Asia, the basic rules of CSR largely result from numerous enquiries of big companies, and are caused by the necessity of guaranteeing the international competitiveness of industries. Companies located in areas with strong expectations of voluntary CSR activities are more likely to be identified and penalized by the stakeholders and the market for unacceptable behaviour that damage interests of investors and other stakeholders. These will be reflected in the cost of capital and corporate reputation. Thus we expect to observe the following

H4 The national approach to CSR modifies the direct and shielding effect of CSR practices on Cost of Capital and Corporate Reputation.

The level of investor protection in each country is also important in these relationships because it has been identified as one of the main institutional factors affecting corporate decision making (Shleifer and Vishny 1997). Companies in countries with higher levels of investor protection prioritize shareholder interests, often short-term interests, and the effect of CSR on cost of capital and corporate reputation can diverge. On the other hand, agency problems are bigger in companies located in countries where investor protection is low (La Porta et al.

1999) and managers have more room to carry out EM. Accounting practices are less aggressive in countries with more investor protection (Haw et al. 2004, Chih et al. 2008; Scholtens and Kang 2012), because institutional environments restrict managers' ability to obtain private benefits (Leuz et al. 2003). Companies located in these countries may not identify CSR practices as a shielding strategy because their investors think that laws dealing with investor protection prevent the risk of expropriation by the management through EM.

Following the argument of Prado Lorenzo et al. (2012) and Simnett et al. (2009), we would expect that countries with a lower level of investor protection tend to be more focused on relationship building with stakeholder groups and voluntarily assuming certain social responsibilities. A number of civil law countries, usually classified as countries with low investor protection have a community perspective and are characterized by laws aiming to protect worker's and other concerned parties' rights (Marginson and Sisson 1994; Ferrer and Quintanilla 1998). CSR practices might generate a stronger signal of a long-term strategic planning and show a positive relation with firm value in these countries, but we do not expect to see CSR used as a shield against EM simply because investors have limited influence on the managers. On the basis of the counteractive forces discussed above, we find that it is difficult to make consistent prediction about the effect of investor protection on the shielding effect of CSR influencing cost of capital and corporate reputation, but the coefficients on other relevant factors can be biased if we do not control for investor protection.

Methodology

Population and Sample

Our sample consists of 1,757 publicly listed non-financial companies for the period 2006–2010 based in one of the 26 countries for which we have adequate data.² This gives us an unbalanced panel data of 8,785 observations. We use the following four publicly available databases to collect the required data: (1) Thomson One Analytic, for accounting and financial data; (2) the Ethical Investment Research Service (EIRIS), for data on CSR and Corporate Governance; and (3) I/B/E/S for analysts' earnings and long-term growth forecasts. The financial information is collected from consolidated statements of the sample of companies. Corporate Reputation is obtained from Fortune magazine

² We count the special administrative region of Hong Kong as a separate country to reflect the fact that their corporate environment is different from that of mainland China.

(specifically, from the (4) *World's most admired companies ranking*).

Measurement of the Cost of Capital

The cost of equity capital is the minimum rate of return equity investors require for providing capital to the firm (Botosan 2006). We use the Price-Earnings-Growth (PEG) ratio as a measure of cost of equity capital based on the Easton (2004) model in a similar way as in Botosan and Plumlee (2005), Francis et al. (2008a), Blanco et al. (2009) and El Ghouli et al. (2011). Our dependent variable is based on the concept of expected Price-Earnings-Growth of Ohlson and Juettner-Nauroth (2003) that was operationalized by Easton (2004). This measure imposes the assumption of zero growth in abnormal earnings beyond the forecast horizon and is more useful, since it isolates the effect of growth and cash flow (Hail and Leuz 2006). The r_{PEG} ratio is calculated as follows:

$$r_{PEG} = \sqrt{\frac{EPS_5 - EPS_4}{P_0}},$$

where EPS_t is the expected earnings per share t years in the future and P_0 is the current market price of the firm's stock. Following Blanco et al. (2009), we use five years long-term growth rates from I/B/E/S to calculate these earnings per share forecasts in year 4 and 5. The model requires positive four-year-ahead and five-year-ahead earnings forecasts, as well as positive change in the earnings forecast.

We use long-term earnings forecasts (EPS_5 and EPS_4) as in Botosan and Plumlee (2005), rather than EPS_2 and EPS_1 because of if EPS_2 is less than EPS_1 , we can not solve the model and limit our sample. However, since EPS_5 always exceeds EPS_4 this problem is avoided with the use of EPS_5 and EPS_4 . They study different measures of cost of capital and conclude that the estimates based on the PEG ratio proposed by Easton (2004) are consistently and predictably related to market risk, leverage risk, information risk, firm size, book-to-price and growth. They argue that this ratio dominates the alternative measures of cost of capital and recommend that analysis that requires estimates of firm-specific cost of equity capital can rely on this measure.

Measures of Corporate Reputation

We compile the data on corporate reputation following a commonly used methodology based on the Fortune Index (Melo and Garrido-Morgado 2012; Fombrun and Shanley 1990). The *World's most admired companies ranking* for the period 2006–2010 gives an alphabetical index of the most admired companies from the top 50 surveys and industry rankings for each year. This Fortune index is based on questionnaire responses from executives, outside

directors and security analysts and companies are classified with respect to their competitors using eight attributes of reputation. In our analysis, *REPUTATION* is a dummy variable with the value of 1 for companies in the *Worlds most admired companies ranking* in that year (and 0 otherwise).

Measures of Earnings Management

We measure EM based on the discretionary component of accruals adjustment as this could be used as a measure of discretionary management, and therefore of accounting manipulation. The discretionary accruals adjustment (DAA) is obtained by subtracting the non-discretionary accruals adjustment (NDAA) from the total accruals adjustment (TAA). The DAA represents the abnormal accruals that proxy for *EM*. We use the modified Jones model (Dechow et al. 1995) to separate the non-discretionary component of accruals from the total. It is the most widely accepted and used method in the literature. The measurement procedure of EM practices is explained in detail in Appendix 1. We include dummies that identify the country of origin, because the size of the sample does not allow estimating models by sector and country efficiently. This procedure has been used by authors working with international sample of firms (see Prior et al. 2008; Chih et al. 2008).

Measurement of CSR Practices

CSR practices should be measured using a multidimensional construct addressing all the actions that have been carried out, especially in social and environmental contexts (Carroll 1979). The CSR information is collected from the EIRIS database.³ This database is widely used in the industry and in academic research, including Brammer et al. (2006), Scholtens and Dam (2007), Louche et al. (2012), Dam and Scholtens (2012) or Fabrizi et al. (2013). EIRIS assigns grades on specific attributes in the different areas. This procedure involves some subjective assessment of relevant practices of the firms, but the topics and questions are designed in a way to give a reasonable assessment of the relevant activities. CSR is broken down into a wide range of relevant activities or policies and each item is assigned a value between -3 and $+3$. The first

grade is major positive and has a value of 3. The second is minor positive and has the value of 1. On the contrary, major negative has a value of -3 and minor negative, of -1 . The EIRIS process starts with information disclosed by the companies. Then, targeted questionnaires are sent to companies regarding areas where public data are unclear. These results in considerable focused dialogue with companies that help clarify any concerns and refine their opinion. Sector specialists within each team review the research before the score is released.

The CSR score is determined from the equally weighted sum of items classified under environmental issues, human rights, relations with stakeholders and board composition. The first of these areas concerns items such as the company's environmental management system and policy, its impact on the environment, and whether the company has published reports on this. The second category is the general scope of the company's strategy, policy, systems and reporting in the field of human rights. The third group concerns the company's policy, management systems, quantitative information and level of commitment with stakeholders in general, policy and practices to support equal opportunities and diversity, health systems and safety at work procedures, support to employee training and development, relationships with customers and suppliers and the level of commitment with the community or social projects. Finally, in order to reflect the characteristics of the Board of Directors, the *Board Index* includes: (i) the independence of the Board, as determined by the separation of functions between the chief executive and the chairman, and the percentage of independent members on the Board and on the audit committee; (ii) the diversity of these two bodies in terms of the presence of women and representatives of different stakeholders; (iii) other transparency and control practices such as the existence of codes of ethics, policies to prevent bribery and corruption, and transparency regarding remunerations. Appendix 2 explains the composition of the *CSR index* in detail.

Institutional Context Variables

Following Hillier et al. (2011), we use three sub-indices of investor protection that stem from the country-level governance indices of La Porta et al. (1998): (i) DCL, which equals 1 if the firm is located in a common law country and zero if the firm is located in a civil law country; (ii) DAR, which equals 1 if the firm is located in a country with more anti-director rights than the sample median, and zero otherwise; and (iii) DEF, which equals 1 if the firm is located in a country with a higher than median law enforcement index, and zero otherwise. Law enforcement is formed by two indices of La Porta et al. (1998): efficiency of the judicial system, and law and order. Finally,

³ EIRIS is an independent research organization and a leading provider of non-financial information on companies' environmental, social and ethical policy and practice. It provides comprehensive research on over 3,000 companies globally. It offers consistent, comparable data on over 110 different ESG areas, including board practice, bribery and corruption, managing environmental and climate change impacts, human rights and supply chain labour standards—See more at: <http://www.eiris.org/>

we proxy effective investor protection by summing the three dummy variables (DCL, DAR and DEF). Based on this new variable measuring effective investor protection (the sum of DCL, DAR and DEF) which can take values between 0 and 3, we construct a new one, *DINVPROTECTION*. It equals 1 if the firm is located in a country with a higher than average effective investor protection, and zero otherwise. The countries with above-average investor protection are Australia, Canada, Hong Kong, the United Kingdom and the United States.

In addition, and following Prado-Lorenzo and Garcia Sanchez (2010), we included another dummy variable based on the National Corporate Responsibility Index (NCRI), which identifies the aggregate institutional context for CSR and examines both the extent to which there is an enabling national environment for corporate responsibility, and the resulting outcomes of corporate responsibility in practice. This index is based on the weighted sum of seven components: corporate governance structures, ethical business practices, progressive policy formulation, building human capital, engagement with civil society, contributions to public finance and finally, environmental management. Each component is based upon a number of indicators and the basket of indicators is equally weighted, to give average scores from 0 to 100 for each component. Similarly, each of the seven components is equally weighted on the basis that they are all of equal importance to the development of a responsible economy. The results give an overall NCRI, again with a maximum possible score of 100. For our purpose, our dummy variable, *DNCRI*, has the value of 1 if the company's country of origin has an above the average NCRI, and 0 otherwise. The countries with an above-average NCRI are Australia, Canada, Denmark, Finland, Germany, Ireland, Luxembourg, the Netherlands, Norway, Sweden, Switzerland and the United Kingdom.

Control Variables

Cost of capital and corporate reputation depend on a number of firm characteristics and without them any analysis would suffer from omitted variable biases. We control for size, leverage, risk, operating liquidity, industry and R&D intensity in our econometric models. Company size (*SIZE*) is measured by the logarithm of the total assets. In general, larger companies enjoy better reputation (Brammer and Pavelin 2004) and a lower cost of capital (Hail and Leuz 2006). This variable is widely used as a control variable in studies involving EM (without a consensus on its effect) and CSR studies (Prior et al. 2008). The level of firm leverage (*DEBT*) represents the debt or non-compliance risk (Prior et al. 2008; Surroca et al. 2010). Other things remaining equal, leverage leads to an increase in the cost of equity capital. *RISK* represents the level of systematic risk and is measured by the Beta of the market model. The CAPM

suggests that systematic risk is priced and hence the beta risk is positively associated with the cost of capital. It is used by authors as Blanco et al. (2009) to determine its effect on the cost of capital. *WORKINGCAPITAL* is defined as the difference between current assets and current liabilities. It reflects liquidity, i.e. a company's ability to proceed normally with its activities in the short term. Companies with financial problems, which might be reflected as negative working capital and excess debt, may be more inclined to manipulate accounting numbers (Park and Shin 2004). A large body of research shows that financial resources also have a strong positive association with CSR practices. Sector effect is captured using a set of categorical variables (*INDUSTRY*) based on the industry codes. According to Melo and Garrido-Morgado (2012), the impact of CSR on Corporate Reputation is moderated by the firm's industry. Moreover, it may affect its CSR practices (Chen and Bouvain 2009). We have separate dummies for segments classed as Business materials, Consumer Discretionary, Consumer Staples products, Health Care, Industrial Field, Information Technology and Utilities. Finally, *R&DINTENSITY* is measured by the ratio of R&D expenditure to total revenue. Baber et al. (1991) and Dechow and Sloan (1991) among others show that companies that invest the most in R&D have greater incentives toward EM, in order to achieve their goals project targets. On the other hand, McWilliams and Siegel (2001) point out that CSR is also dependent on R&D costs. Firms that invest in R&D create intangible assets which promote higher corporate reputation (Torres et al. 2012).

Empirical Methodology

The aim of this paper is to determine the effect of EM and CSR practices on the cost of capital and on corporate reputation, especially when CSR practices are carried out strategically to avoid negative reaction of the market and stakeholder groups to the managers' result-based management. In the first set of models (model As), the dependent variable is the cost of capital (r_{PEG}), and in the second set (model Bs), it is corporate reputation (*REPUTATION*).

For the analyses of cost of capital, we estimate Arellano and Bond (1991) simultaneous equations model for panel data using the generalised method of moments (GMM) method. It helps to address endogeneity problems that persist in least squares estimators. Following the argument of Wooldridge (2010), our tests could be biased due to endogeneity because, while the EM and CSR practices could partially explain r_{PEG} , expected cost of capital can influence the choice of EM and CSR. Estimation using instrumental variables models like the GMM can address this problem (Ogaki 1993). Endogeneity problem can also be controlled using a simultaneous equations estimator, such as maximum likelihood or two or three-stage least

squares estimators, but the choice should be based on consistency (De Miguel et al. 2005). These methods are more efficient than GMM, but they are not consistent and generate biased results as they do not eliminate unobservable heterogeneity: firms' own specificity that gives rise to a particular behaviour. These differences between individuals are potentially correlated with the explanatory variables (also called individual specific effects like entrepreneurial skills, corporate culture, etc.), which are invariant over time and directly influence corporate decisions. In order to control unobservable heterogeneity, GMM decomposes the random error term (ε_i) into two parts: the combined effect (μ_{it}), which varies depending on individuals and on time periods; and the individual effect (η_i), which is characteristic of the company.

We use Logit model for panel data in order to test our hypotheses about corporate reputation. As mentioned above, *REPUTATION* is a dummy variable taking the value of 1 if the company is listed in the *World's most admired companies ranking*, and of 0 if it is not. Given the categorical nature of the dependent variable, the best option is using nonlinear probability models, where a result between 0 and 1 is guaranteed for the estimation.

First, we test *H1a* and *H1b* by running both sets of models with EM as the main variable of interest.

$$\begin{aligned} r_{PEG}/REPUTATION_{it} = & \phi_1 EM_{it} + \phi_2 Size_{it} + \phi_3 Debt_{it} \\ & + \phi_4 Risk_{it} + \phi_5 Workingcapital_{it} \\ & + \phi_6 Industry_{it} + \phi_7 R\&DIntensity_{it} \\ & + \varepsilon_{it}. \end{aligned} \quad (1)$$

Then, we focus on the effect of CSR practices on the cost of capital and on the company reputation (*H2a* and *H2b*).

$$\begin{aligned} r_{PEG}/REPUTATION_{it} = & \phi_1 CSR_{it} + \phi_2 Size_{it} + \phi_3 Debt_{it} \\ & + \phi_4 Risk_{it} + \phi_5 Workingcapital_{it} \\ & + \phi_6 Industry_{it} + \phi_7 R\&DIntensity_{it} \\ & + \varepsilon_{it}. \end{aligned} \quad (2)$$

In order to test the shielding effect of CSR practices in (*H3a* and *H3b*), we interact EM practices and CSR actions. So we have both CSR and EM practices and their interaction as independent variables in the models.

$$\begin{aligned} r_{PEG}/REPUTATION_{it} = & \phi_1 EM_{it} + \phi_2 CSR_{it} + \phi_3 CSR * EM_{it} \\ & + \phi_4 Size_{it} + \phi_5 Debt_{it} \\ & + \phi_6 Risk_{it} + \phi_7 Workingcapital_{it} \\ & + \phi_8 Industry_{it} + \phi_9 R\&DIntensity_{it} \\ & + \varepsilon_{it} \end{aligned} \quad (3)$$

In order to identify the institutional factors moderating the combined effect of CSR and EM on r_{PEG} and *REPUTATION* (*H4*), we estimate two new models to determine the role of: (i) the national approach to CSR and (ii) the level of investor protection in the firm's country of origin

$$\begin{aligned} r_{PEG}/REPUTATION_{it} = & \phi_1 EM_{it} + \phi_2 CSR_{it} + \phi_3 CSR * EM_{it} \\ & + \phi_4 CSR * EM * DNCRI_{it} \\ & + \phi_5 DNCRI_{it} + \phi_6 Size_{it} \\ & + \phi_7 Debt_{it} + \phi_8 Risk_{it} \\ & + \phi_9 Workingcapital_{it} \\ & + \phi_{10} Industry_{it} \\ & + \phi_{11} R\&DIntensity_{it} + \varepsilon_{it} \end{aligned} \quad (4)$$

$$\begin{aligned} r_{PEG}/REPUTATION_{it} = & \phi_1 EM_{it} + \phi_2 CSR_{it} + \phi_3 CSR * EM_{it} \\ & + \phi_4 CSR * EM \\ & * DINVPROTECTION_{it} \\ & + \phi_5 DINVPROTECTION_{it} \\ & + \phi_6 Size_{it} \\ & + \phi_7 Debt_{it} + \phi_8 Risk_{it} \\ & + \phi_9 Workingcapital_{it} \\ & + \phi_{10} Industry_{it} \\ & + \phi_{11} R\&DIntensity_{it} + \varepsilon_{it} \end{aligned} \quad (5)$$

where, i represents the company and t represents the time period, ϕ represents estimating parameters, ε_{it} represents the error term, r_{PEG} is a continuous variable measured by the Cost of Capital, *REPUTATION* is a dummy variable that represents whether the firm is one of the most admired companies worldwide or not, *EM* is a continuous variable that represents the accounting EM practices, *CSR* is a continuous variable that reflects the CSR practices of the company, *CSR*EM* is a continuous variable measured by the interaction between CSR and EM, that represents companies using CSR practices as an entrenchment strategy that conceals EM practices, *DNCRI* and *DINVPROTECTION* are dummy variables that reflect the characteristics of the institutional and corporate contexts. These variables are analysed by their interaction with *CSR*EM*, *SIZE* is a continuous variable measured by the logarithm of the total assets, *DEBT* is a continuous variable measured as the ratio of debt to equity, *RISK* is a continuous variable measured by the beta market, *WORKINGCAPITAL* is a continuous variable measured by the difference between current assets and current liabilities, *INDUSTRY* is a multinomial variable that represents the sector of activity, *R&DINTENSITY* is a continuous variable measured by the ratio of R&D expenditure to total revenue.

Results

Univariate Analysis

Table 1 shows the descriptive statistics of the variables used in this study. The mean value of cost of capital is of 1.88 basis points and its standard deviation, of ± 2.26 basis points. The value is much smaller than expected because the expected earnings growth is exceptionally small in our sample period. Considering cost of capital as the minimum rate of return on equity investors for providing capital to the firm (Botosan 2006), this mean value means that, on average, companies sample must provide to their shareholders at 1.88 basis point of return for their investments. Furthermore, its standard deviation of ± 2.26 basis points means that this return on equity varies according to the risk-return principle (higher risk, higher demanded return). The mean value of the CSR variable is -22.74 (out of a possible range between -84 to +84), implying that, on average, practices are not socially responsible. The standard deviation is of ± 27.331 . Out of the four groups of CSR categories, the greatest concern in our sample of companies' is board issues followed by environmental issues and human rights. The individual analysis of each item reveals that the most commonly implemented CSR practices concern relationships with customers and suppliers, and the use of environmental management systems. The companies in the sample have an average of 0.007 in EM. The proxy for EM is the discretionary accrual adjustments, which is the residual in the modified Jones model (Dechow et al. 1995) as explained in Appendix 1 and it can take positive or negative values. It is not surprising that the average is close to the ideal level of EM, which is zero implying that companies, on average, do not display significant EM practices. However, the relatively high standard deviation of 0.375 indicates that there is a wide variation EM practices in our sample. The mean values and standard deviations are very similar to those obtained in previous studies, such as Barton (2001), Prior et al. (2008) and Gray et al. (2009). The average *SIZE* of the analysed companies is 7.874 million Euros, with a standard deviation of ± 1.979 million Euros. The average *DEBT* stands at 0.676 with a standard deviation of ± 0.110 . Table 1 also shows the absolute and relative frequency of *REPUTATION*, a dummy variable with values between 0 and 1. Only 645 companies (7.38 % of the sample) are listed in the *World's most admired companies ranking*, which is conceived as a reputation index in Fortune magazine.

Table 2 shows the Pearson correlation coefficients between the different variables. The coefficients are not very high between the different independent variables

indicating that there are no significant multicollinearity problems that might confound the estimation.

Table 3 shows the mean values of CSR, EM and institutional factors per country. An individual analysis permit us observe the differences among countries. USA, with 2,324 observations out of the total of 8,786, is the most represented country in the sample, closely followed by Japan (with 1,881 observations) and the United Kingdom (1,634 observations). We note that Netherlands, Finland and France are the most socially responsible countries and Germany has the highest mean value of discretionary accruals. The table also indicates the group of countries with stronger commitment to CSR and investor protection.

Earnings Management, Corporate Social Responsibility and Cost of Capital

The empirical evidence reflecting the effect of EM, CSR and the entrenchment strategy on the cost of capital is shown in Table 4. Column 1 shows results for model 1A and we find that the effect of EM on the cost of capital is positive and significant at 1 % level which supports hypothesis *H1a*. Companies' engaging in EM practices is penalized by the market with a higher cost of capital. In column 2 (model 2A), CSR practices show a negative relationship with the cost of capital at a 5 % significance. This shows that companies that invest in CSR have lower costs of capital (*H2a*). Both results hold in the specification in the models presented in columns 3, 4 and 5. Both effects are economically significant. For example, from the coefficients in model 5 (A), we see that for an average firm, if EM becomes one standard deviation more aggressive, cost of capital increases by 17 %.

The shielding effect of CSR activities on the negative effect of EM (model 3A) is very significantly negative on the cost of capital (99 % confidence level). This suggests that investors get mixed signal when CSR is used along with EM and required cost of capital does not rise as sharply as a result of EM in these companies (*H3A*).

The effect of the interaction of EM, CSR and DNCRI, which reflects the effectiveness of shielding practices in countries with strong commitments to CSR, is positive and significant. Thus if investors and the market in general demand a strong commitment to CSR, trying to use CSR to shield EM can backfire and increase the cost of capital even more. Thus, hypothesis *H4* can be accepted. The result of the interaction of EM, CSR and DINVPROTECTION (model 5A, column 5) is negative and significant. Therefore, managers use CSR practices as a means of disguising EM successfully when they work in companies operating in contexts where investor interests and rights tend to be more protected by law.

Table 3 Descriptive statistics per country

	Observations	CSR	EM	DNCRI	DINVPROTECTION
Australia	338	-5.666	0.069	1	1
Austria	48	-18.188	-0.047	0	0
Belgium	57	-0.404	-0.038	0	0
Canada	324	-16.765	0.549	1	1
China	32	-54.938	0.0001	0	0
Denmark	59	1.237	2.908	1	0
Finland	97	11.628	4.549	1	0
France	334	10.937	0.743	0	0
Germany	318	-11.321	88.747	1	0
Greece	24	1.167	0.001	0	0
Hong-Kong	394	-48.690	9.459	0	1
Ireland	39	-25.026	0.232	1	0
Italy	123	4.919	17.426	0	0
Japan	1,881	-20.074	0.034	0	0
Luxembourg	6	-37.000	0.029	1	0
Netherlands	78	15.231	0.678	1	0
New Zealand	44	-11.727	0.018	1	1
Norway	53	10.208	0.018	1	0
Portugal	23	6.261	0.018	0	0
Singapore	185	-47.189	0.821	0	0
South Korea	20	17.100	0.034	0	0
Spain	108	0.639	0.048	0	0
Sweden	120	3.250	0.063	1	0
Switzerland	122	-0.746	-0.002	1	0
UK	1,634	-8.139	8.048	1	1
USA	2,324	-20.789	11.129	0	1

EM represents the Earnings Management practices measured by the Dechow et al. (1995) model. *CSR* shows the CSR practices of company *i* for period *t*. *DNCRI* equals 1 if the company's country of origin has an above the average National level Corporate Responsibility and *DINVPROTECTION* equals 1 if the firm is located in a country with a higher than average investor protection

Observing the coefficient of the control variables, the very significant negative effect of the company size stands out. This indicates that investors of big companies demand lower cost of capital for their investments. *WORKING-CAPITAL* has a positive effect on the dependent variable of model A, when the effect of EM and CSR in the cost of capital is individually analysed. However, the coefficient of the interaction of the shielding effect and investor protection is negative implying that the shielding effect is weaker in countries with strong investor protection. The other variables mostly show expected signs, but are not significant in the majority of the models.

Earnings Management, Corporate Social Responsibility and Corporate Reputation

Table 5 shows the results of the Logit models designed to capture the effect of EM, CSR and shielding strategy on corporate reputation. The link between EM practices and reputation (model 1B) is negative and highly significant supporting *H1B*. We obtain exactly opposite sign (at 1 % significance) when analysing the consequences of CSR

practices on reputation. Therefore, we can accept hypothesis H2b. The negative link between EM and reputation and the positive one between CSR and reputation are present in the rest of models (2B, 3B, 4B and 5B). We find that the interaction term EM*CSR is insignificantly different from zero, implying that positive CSR strategies in itself improves reputation, but it does not help reclaim additional ground lost to firms that display EM practices. Therefore, hypothesis H3b is not supported by the data. In addition, interest groups lightly punish shielding practices when implemented in contexts strongly committed with CSR (model 4B) and in countries with weak protection of investors' interests and rights (model 5B). The control variables show patterns that are similar to the previous table as we observe that reputation is significantly higher for bigger companies and companies with higher levels of working capital.

Robustness Tests

We estimate the models (cost of capital and reputation) after partitioning the full sample into two groups based on whether

Table 4 The combined effect EM and CSR Practices on cost of capital (MODEL A: Cost of capital, Arellano Bond GMM)

	(1)	(2)	(3)	(4)	(5)
<i>EM</i> (Dechow et al. 1995)	0.0114*** (0.000)		0.028*** (0.000)	0.046*** (0.000)	0.086*** (0.000)
<i>CSR</i>		-1.470** (0.047)	-2.190*** (0.000)	-2.530*** (0.000)	-1.880*** (0.000)
<i>CSR*EM</i>			-9.08e-04*** (0.000)	-1.56e-03*** (0.000)	-3.39e-04*** (0.000)
<i>DNCRI</i>				-117.000 (0.667)	
<i>CSR*EM*DNCRI</i>				1.44e-03*** (0.000)	
<i>DINVPROTECTION</i>					-4.800 (0.957)
<i>CSR*EM*DINVPROTECTION</i>					-2.31e-03*** (0.000)
<i>Size</i>	-247.400*** (0.000)	-130.400*** (0.000)	-162.300*** (0.000)	-166.300*** (0.000)	-160.000*** (0.000)
<i>Debt</i>	0.148 (0.947)	-0.0540 (0.876)	-0.105 (0.575)	-0.089 (0.790)	-0.022 (0.947)
<i>Risk</i>	1067.600*** (0.002)	-3147.800 (101)	-2669.800 (133)	-5283.400*** (0.003)	-3581.100** (0.041)
<i>WorkingCapital</i>	0.029*** (0.000)	6.18e-03 (236)	-8.52e-03** (0.025)	-0.0153*** (0.000)	-0.010*** (0.006)
<i>Industry</i>	No	No	No	No	No
<i>R&DIntensity</i>	-1.960 (0.192)	-1.180 (329)	-1.590 (0.191)	-1.600 (0.179)	-1.470 (0.218)
<i>Z</i>	30453.750	61.470	546.290	4853.920	636.230
<i>m1</i>	-3.080	-2.80	-2.840	-2.850	-2.850
<i>m2</i>	1.280	1.500	1.420	1.410	1.410



Table 5 The combined effect EM and CSR Practices on Corporate Reputation (MODEL B: Reputation; Logit models)

	(1)	(2)	(3)	(4)	(5)
EM (Dechow et al. 1995)	-248.200*** (0.004)		-246.700*** (0.004)	-429.700* (0.094)	-264.500** (0.042)
CSR		2488.800** (0.041)	2235.600* (0.056)	12285.800*** (0.000)	7759.200** (0.001)
CSR*EM			0.356 (0.106)	-8.230 (0.189)	-6.660 (0.194)
DNCRI				-21.69E+6*** (0.000)	
CSR*EM*DNCRI				-10.800* (0.071)	
DINVPROTECTION					3.17E+4*** (0.000)
CSR*EM*DINVPROTECTION					-10.100** (0.044)
Size	76.87E+4*** (0.000)	74.67E+ 4*** (0.000)	74.72E+4*** (0.000)	59.95E+4*** (0.000)	81.61E+4*** (0.000)
Debt	-6605.400 (0.247)	-6595.500 (0.249)	-6355.300 (0.251)	-5811.300 (0.313)	-4680.100 (0.354)
Risk	-2820.700 (0.874)	-2408.100 (0.889)	-2493.600 (0.886)	-2796.500 (0.873)	-23433.000 (0.674)
WorkingCapital	183.700*** (0.000)	184.100*** (0.000)	184.400*** (0.000)	175.900*** (0.000)	217.900*** (0.000)
Industry	Yes	Yes	Yes	Yes	Yes
R&DIntensity	2071.400 (0.961)	1835.100 (0.968)	1504.000 (0.974)	3901.400 (0.883)	-15.71E + 4 (0.556)
Intercept	-11.85E+6*** (0.000)	-11.66E+6*** (0.000)	-11.65E+6*** (0.000)	-9.75E+6*** (0.000)	-14.14E+6*** (0.000)

The Dependent variable is *REPUTATION* a proxy for corporate reputation. EM represents the Earnings Management practices measured by the Dechow et al. (1995) model. CSR reflects the CSR score of company *i* for period *t*. *CSR*EM* represents the use of CSR practices as a shielding strategy with the aim to disguise EM. *CSR*EM*DNCRI* represents shielding practices in countries with strong commitment to CSR. *DNCRI* is a dummy variable with the value of 1 if the company’s country of origin National Corporate Responsibility Index (NCRI) is above average (and of 0 otherwise). *CSR*EM*DINVPROTECTION* represents shielding practices in countries with strong laws and enforcement to protect shareholders’ interests. *DINVPROTECTION* is a dummy variable with the value of 1 if the firm is located in a country higher than the mean investor protection, and of 0 otherwise. Size represents the size of the company and is measured by the logarithm of its total assets. Debt reflects the debt of the company and is calculated as the ratio of debt to equity. Risk represents the faced risk, measured by the beta. *WorkingCapital* represents liquidity, measured as the difference between current assets and current liabilities. Industry represents the economic sector of the company. *R&DIntensity* represents the ratio of R&D expenditure to total sales. We report the coefficients (*P* values) for each explanatory variables

$$REPUTATION_{it} = \phi + \phi_1 EM_{it} + \phi_2 Size_{it} + \phi_3 Debt_{it} + \phi_4 Risk_{it} + \phi_5 Workingcapital_{it} + \phi_6 Industry_{it} + \phi_7 R\&DIntensity_{it} + \eta_i + \mu_{it} \quad (1.B)$$

$$REPUTATION_{it} = \phi + \phi_1 CSR_{it} + \phi_2 Size_{it} + \phi_3 Debt_{it} + \phi_4 Risk_{it} + \phi_5 Workingcapital_{it} + \phi_6 Industry_{it} + \phi_7 R\&DIntensity_{it} + \eta_i + \mu_{it} \quad (2.B)$$

$$REPUTATION_{it} = \phi + \phi_1 EM_{it} + \phi_2 DCSR_{it} + \phi_3 DCSR * EM_{it} + \phi_4 Size_{it} + \phi_5 Debt_{it} + \phi_6 Risk_{it} + \phi_7 Workingcapital_{it} + \phi_8 Industry_{it} + \phi_9 R\&DIntensity_{it} + \eta_i + \mu_{it} \quad (3.B)$$

$$REPUTATION_{it} = \phi + \phi_1 EM_{it} + \phi_2 CSR_{it} + \phi_4 CSR * EM * DNCRI_{it} + \phi_5 DNCRI + \phi_6 Size_{it} + \phi_7 Debt_{it} + \phi_8 Risk_{it} + \phi_9 Workingcapital_{it} + \phi_{10} Industry_{it} + \phi_{11} R\&DIntensity_{it} + \eta_i + \mu_{it} \quad (4.B)$$

$$REPUTATION_{it} = \phi + \phi_1 EM_{it} + \phi_2 CSR_{it} + \phi_4 CSR * EM * INVPROTECTION_{it} + \phi_5 DINVPROTECTION + \phi_6 Size_{it} + \phi_7 Debt_{it} + \phi_8 Risk_{it} + \phi_9 Workingcapital_{it} + \phi_{10} Industry_{it} + \phi_{11} R\&DIntensity_{it} + \eta_i + \mu_{it} \quad (5.B)$$

* *p* < 0.10; ** *p* < 0.05; *** *p* < 0.001

by the investors and the non-financial stakeholders. This strikes a chord with Prior et al. (2008) and Gargouri et al. (2010), who point out that CSR improves a company’s corporate image irrespective of the ultimate goal pursued by the

managers. The validity and consistency of CSR scores, widely used in the ethical investments sector and academic research, is a hotly contested issue. Delmas et al. (2013) and Chatterji et al. (2014) finds a lack of consistency among CSR scores



Table 6 Robust Analysis

	MODEL A: COST OF CAPITAL				MODEL B: CORPORATE REPUTATION			
	COMMON LAW		CIVIL LAW		COMMON LAW		CIVIL LAW	
	Coef.	$P > Z $	Coef.	$P > Z $	Coef.	$P > Z $	Coef.	$P > Z $
<i>EM</i>	0.266***	0.000	0.0131***	0.000	-140.500	0.758	-8951.300*	0.071
<i>CSR</i>	-0.506	0.635	-3.480***	0.000	2617.800	0.460	53.2E+3***	0.000
<i>CSR*EM</i>	-7.77E-03***	0.000	3.85E-04***	0.000	1.890	0.867	-117.000	0.104
<i>Size</i>	-217.700***	0.000	-170.790***	0.000	91.15E+4***	0.000	29.53E+4***	0.001
<i>Debt</i>	0.199	0.488	7.110***	0.000	-4994.800	0.382	-3453.900	0.390
<i>Risk</i>	-18078.1	0.385	88.300	0.808	-58.89E+3	0.673	-6.310	0.998
<i>WorkingCapital</i>	0.002***	0.000	2.28E-04	0.972	387.400***	0.000	301.800***	0.001
<i>Industry</i>	No		No		Yes		Yes	
<i>R&DIntensity</i>	22.000**	0.046	-1.630***	0.000	-7884.800	0.551	5767.600	0.936
Intercept					-13.8E+6***	0.000	-12.94E+6***	0.000
<i>Z</i>	3379.430		125.490					
<i>m1</i>	-2.710		-1.460					
<i>m2</i>	1.260		-1.240					
Hansen	98.110		96.260					

Civil versus common law. The combined effect EM and CSR Practices on the Cost of Capital and Corporate Reputation

$$r_{PEGit} = \phi + \phi_1 EM_{it} + \phi_2 DCSR_{it} + \phi_3 DCSR * EM_{it} + \phi_4 Size_{it} + \phi_5 Debt_{it} + \phi_6 Risk_{it} + \phi_7 Workingcapital_{it} + \phi_8 Industry_{it} + \phi_9 R\&DIntensity_{it} + \eta_i + \mu_{it}$$

$$REPUTATION_{it} = \phi + \phi_1 EM_{it} + \phi_2 DCSR_{it} + \phi_3 DCSR * EM_{it} + \phi_4 Size_{it} + \phi_5 Debt_{it} + \phi_6 Risk_{it} + \phi_7 Workingcapital_{it} + \phi_8 Industry_{it} + \phi_9 R\&DIntensity_{it} + \eta_i + \mu_{it}$$

We run the following two models for common law and civil law country. This first is an Arellano Bond GMM model and the second is a logit model

See Tables 4 and 5 for a short explanation of the variables. We report the coefficients (P values) for each explanatory variables

* $p < 0.10$; ** $p < 0.05$; *** $p < 0.001$

provided by different organizations covering US companies and point out the lack of transparency in the evaluation process and the dangers in putting too much trust in any one of them. Our results are based on the most widely used measure of CSR covering a large number of international companies and we agree that our measure of CSR also suffers from the same caveat. But as long as markets fixate on widely used CSR scores as a measure of business ethics and sustainable practices, corporations might be able to use these very noisy and questionable scores as a tool to generate positive sentiments from ethical investors and loyalty from stakeholders. Institutional context (national commitment to CSR and the level of investor protection in the company's country of origin) plays an important role to moderate the relationship between, EM, CSR and cost of capital (corporate reputation). These results support previous evidence by Scholtens and Kang (2012) and Leuz et al. (2003).

Concluding Remarks

In recent years, accounting practices and ethical standards of companies are scrutinized intensely by investors and non-

financial stakeholders. Investments in CSR can give competitive advantage in the product market and, in general, can signal a company's healthy long-term outlook. But does it provide managers with an opportunity to use CSR practices for significant improvement in the corporate image? We show that CSR can be used to shield the negative effect of discretionary accounting practices on cost of capital. Corporations not only obtain direct economic and financial benefits from implementation of CSR policies, it also helps to cover up for EM practices. The markets cannot identify situations when CSR policies have a higher probability of being used as a short-term strategy to improve corporate image. They have a negative effect on cost of capital by itself and they also reduce the rise in cost to companies that simultaneously engage in EM. We also find that the favourable effect of CSR is more pronounced in countries with strong investor protection. The shielding effect does not work in countries that have strong commitment to CSR and it is expected. A more thorough country and institution-specific analysis needs to be done to understand how the relevant policies influence corporate strategies.

The results on corporate reputation are similar to the findings on the direct effect of EM and CSR on cost of

capital. The stakeholders identify aggressive accounting practices and the reputation of these companies takes a hit as a result. However, companies that promote responsibility to social and environmental causes strongly have higher reputation. These companies are more likely to be listed among the world’s most admired companies. But the market is more conservative in their assessment of CSR in countries with strong investor protection and an environment of higher commitment to CSR and possibly takes account that companies might try to use CSR policies primarily to hide their EM. We partition the sample into civil and common law countries to re-iterate how the effect of CSR and EM can be influenced by the legal environment in which the company operates.

Our findings contribute to the emerging literature attempting to understand the motivation of discretionary practices by managers. The highlight of the paper is the result that managers might be able to shield their companies from punishment for EM practices by projecting their CSR policies. This is consistent with the Legitimacy Theory and the Stakeholder theory which explain how businesses can benefit by aligning with values constructed by the society. In this situation, managers may attempt to manipulate the perception about their image using CSR strategies at the margin and future research should try to identify if some groups of firms have an insincere box-ticking CSR strategy, while others seem to show real commitment. We show that the positive effects of CSR not only affects long-term loyalty of stakeholders through reputation, but it also brings home benefits instantly in the shape of lower cost of capital, and company insiders and large shareholders should aim to design compensation contract for executives that encourage them to invest in CSR. This basic result can help investors, stakeholders and regulatory authorities evaluate the implications of EM and CSR practices being carried out concurrently and inform them of the possibility that CSR can be used to shield negative perception about the company. In particular, they should demand higher levels of transparency and accountability and look beyond the reductionist measures of CSR and sustainability. The different measures themselves show a significant variability among themselves and they can be used to manipulate perception, confuse and misinform, while the real concerns on sustainability and ecology takes a back seat in corporate strategy (Milne and Gray 2013). This paper shows evidence of such strategies and as pointed out by Buhr et al. (2014), more research should be done to understand managerial priorities in their CSR strategies and snowball big reforms in corporate behaviour.

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Appendix 1: Measuring Earnings Management with Discretionary Accruals

Jones’ Standard Model

Following Jones (1991) and Dechow et al. (1995), total accrual adjustments (TAA) are defined as

$$TAA_{it} = [(\Delta CA_{it}) - (\Delta CASH_{it})] - [(\Delta CL_{it}) - (\Delta RLTP_{it})] - DA_{it}, \tag{6}$$

where ΔCA_{it} represents the change in current assets; $\Delta CASH_{it}$ reflects the change in cash held and in short-term financial investments; ΔCL_{it} is the change in current liabilities; $\Delta RLTP_{it}$ is the change in reclassified long-term obligations; DA_{it} is the depreciation and amortization; i represents the company and t represents the year.

On the basis of Eq. (6), accruals are calculated using an explanatory model. The difference between actual and expected accrual adjustments (taking into account growth, company assets and the accounting result) represents the discretionary or unexplained component of accrual adjustments (DAA). It acts as a measurement of management discretion in the reporting of results.

The standard Jones model uses the following procedure to separate the discretionary component and the non-discretionary one

$$\frac{TAA_{it}}{A_{i,t-1}} = \alpha_{1,t} \left(\frac{1}{A_{i,t-1}} \right) + \alpha_{2,t} \left(\frac{\Delta Sales_{it}}{A_{i,t-1}} \right) + \alpha_{3,t} \left(\frac{PPE_{it}}{A_{i,t-1}} \right) + \varepsilon_t, \tag{7}$$

where $\frac{TAA_{it}}{A_{i,t-1}}$ are the total accrual adjustments; $A_{i,t-1}$ represents the total assets of firm i in period $t - 1$ (this is used as a deflator to correct possible problems of heteroscedasticity); PPE_{it} represents the property, plant and equipment of firm i in period t and $\Delta Sales_{it}$ is the change in sales for firm i in period t .

The non-discretionary accrual adjustments (NDAA) are $\alpha_{1,t} \left(\frac{1}{A_{i,t-1}} \right) + \alpha_{2,t} \left(\frac{\Delta Sales_{it}}{A_{i,t-1}} \right) + \alpha_{3,t} \left(\frac{PPE_{it}}{A_{i,t-1}} \right)$, and ε_t represents the discretionary accrual adjustments (DAA) for firm i in year t . NDAA are calculated by replacing the coefficients in Eq. (7) with the values obtained by Ordinary Least Squares. DAA are the residuals of this calculation.

Modified Jones Model (Dechow et al. 1995)

In the modified Jones model (Dechow et al. 1995, Eq. 8), the TAA use the variation in sales minus accounts receivable (used to measure the company’s growth, because its working capital is closely linked to sales) and minus the item property, plant and equipment (used to measure the depreciation costs

of the discretionary adjustments). It is assumed that not all sales are necessarily non-discretionary, and that this will depend on the item to be received.

$$\frac{TAA_{it}}{A_{i,t-1}} = \alpha_{1,t} \left(\frac{1}{A_{i,t-1}} \right) + \alpha_{2,t} \left(\frac{\Delta(Sales - A * R)_{it}}{A_{i,t-1}} \right) + \alpha_{3,t} \left(\frac{PPE_{it}}{A_{i,t-1}} \right) + \varepsilon_t \quad (8)$$

where $A * R$ represents accounts receivable, and the other variables are defined as in Eq. (7).

Please note that coefficients in this model are calculated using the original Jones model (1991), and the modification is only applied when calculating non-discretionary adjustments.

Appendix 2: Corporate Social Responsibility

Table 7 represents the composition of the CSR index, and analyzes several areas (environment, human rights, the relationships with stakeholders and board of directors).

Table 7 CSR practices

ENVIRONMENTAL INDEX

Environmental policies and commitment

Environmental management systems

Environmental reporting

Level of environmental impact improvement

HUMAN RIGHTS INDEX

Extent of policies addressing human rights issues

Extent of systems addressing human rights issues

Extent of reporting addressing human rights issues

STAKEHOLDER INDEX

Policies towards stakeholders overall

Management systems for stakeholders overall

Quantitative reporting for stakeholders overall

Level of engagement with stakeholders overall

Policies on equal opportunities and diversity issues

Systems and practices to support equal opportunities and diversity issues

Health & Safety systems

Systems and practices to advance job creation and security

Systems to manage employee relations

Systems to support employee training and development

Policies on maintaining good relations with customers—suppliers

Systems to maintain good relations with customers—suppliers

Level of commitment with community or charitable work

BOARD INDEX

The company separates the roles of the Chairman and the Chief Executive

The proportion of independent non-executive directors exceeds 33 %

Table 7 continued

The company has an audit committee with a majority of independent non-executive directors

Level of stakeholder issues allocated to members

Gender diversity in the boardroom

Policies and procedures on bribery and corruption (policies, system and reporting)

Level of comprehension of the code of ethics

The company discloses the remuneration of its directors

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