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A feedback-based model for CSR assessment and materiality analysis

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Highlights

1. The model provides the assessment of three aspects of CSR commitment

2. The model profiles customers on the basis of their CSR feedback

3. Customer feedback is assessed basing on CSR expectations and perceptions

4. The model is highly suited for use in CSR evaluation and strategic planning

5. The model provides a valuable instrument for materiality analysis

Abstract

Current CSR literature offers little insight into how to engage customers and other

stakeholders about their CSR expectations and perceptions. The aim of this paper is to

propose a model for CSR evaluation and planning based on the classification of customer

CSR feedback through the comparison of three aspects of CSR commitment (disclosed,

perceived and expected). Although the paper is focused on customers, the model can be

applied indifferently to any stakeholder group, thus providing a valuable instrument for

materiality analysis and stakeholder engagement. In effect, the model allows identifying

material CSR issues regarding all stakeholder perceptions and expectations.

Keywords: Corporate Social Responsibility (CSR); CSR expectations and perceptions;

Global Reporting Initiative (GRI); materiality analysis; Sustainability Report; stakeholder

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engagement.

1. Introduction

In recent decades there has been increasing attention to the social and environmental impacts of business, particularly as regards multinational companies. Stakeholders are ever more concerned and responsible about environmental and social issues (Brunk & Blümelhuber, 2011), and linked to this, customers' purchasing decisions can be related to their awareness of company CSR (Corporate Social Responsibility) activities (Lee & Shin, 2010; Wigley, 2008; Mohr & Webb, 2005; David, Kline, & Dai, 2005). In order to establish a long-lasting relationship with their stakeholders in general and customers in particular, companies need to consider and manage their increasing awareness and concerns, aligning business activities accordingly (Lee & Shin, 2010).

For these reasons, companies are called on to improve their CSR through appropriate actions regarding social, environmental and economic sustainability (European Commission, 2011; Kolk & Van Tulder, 2010) and through avoidance of "corporate social irresponsibility" (CSI) (Lin-Hi & Müller, 2013). At the same time, in order to gain returns from their CSR (such as company reputation, customer loyalty and customer-company identification), companies must then continuously communicate their commitment and true efforts (Schmeltz, 2012; Du, Bhattacharya, & Sen, 2010; Nielsen & Thomsen, 2007; Morsing & Schultz, 2006). For this reason, growing numbers of companies now report to stakeholders on their CSR commitment by means of sustainability reports, websites and other CSR communication activities (Kolk & Pinkse, 2010; Capriotti & Moreno, 2007; Perrini, 2005; Pollach, 2003).

However, companies should disclose their CSR effectively, otherwise customers and other stakeholders might not perceive that the company is honest and transparent about its CSR efforts (Castaldo, Perrini, Misani, & Tencati, 2009; Weber, 2008; Peterson, 2004). Thus to increase stakeholders' CSR perception, companies must improve the effectiveness of their communication, and at the same time they must also make efforts to satisfy the stakeholders'

CSR expectations.

In this paper, we focus on customers, considering the distinct aspects of customer perceptions and expectations of CSR as two forms of feedback that companies can use to develop effective CSR. In fact, customer CSR perceptions and expectations provide direct feedback because of their influence on purchase intentions, customer loyalty, company image and reputation and customer-company identification. The actual customer feedback depends on the distance between the beliefs, values and lifestyles of the customers and their perception of the company CSR (Vitell, Ramos, & Nishihara, 2010; Sen & Bhattacharya, 2001). Consequently, the same company can receive different and even contrasting CSR feedback based on the multiplicity of its customers' perceptions and expectations (Öberseder, Schlegelmilch, & Gruber, 2011; Mohr & Webb, 2005; Mohr, Webb, & Harris, 2001). From this, in order to elaborate appropriate CSR initiatives, companies need to organise and classify customer feedback. The classification of CSR feedback requires consideration of three aspects of CSR commitment: i) the CSR commitment disclosed by the company in its sustainability report and website; ii) the CSR commitment perceived by the company customers; iii) the CSR commitment that customers expect or demand from the company. The literature offers many approaches to the measurement of company-disclosed CSR commitments (Rahman & Post, 2012; Font, Walmsley, Cogotti, McCombes, & Häusler, 2012; Bouten et al., 2011; Striukova, Unerman, & Guthrie, 2008; Beattie & Thomson, 2007; Guthrie & Abeysekera, 2006; Longo, Mura, & Bonoli, 2005). There are also numerous studies dealing with customer-perceived CSR (Pomering & Dolnicar, 2009; Ramasamy & Yeung, 2009; Luo & Bhattacharya, 2006; Becker-Olsen, Cudmore, & Hill, 2006; Meijer & Schuyt, 2005) and customer-required CSR (Adlwarth, 2010; Poolthong & Mandhachitara, 2009; Podnar & Golob, 2007; Dawkins & Lewis, 2003).

Following this lead, this paper aims to answer the following research question: "How can

customer CSR feedback improve the effectiveness of a company's CSR?". The research question is broken down into the following three sub-questions: 1) How can the disclosure of a company's CSR commitment be assessed? 2) How can the customer expectations and perceptions of a company's CSR commitment be assessed? 3) How can customer CSR feedback be classified for company benefit?

The general research question and three sub-questions have both academic and practical implications. On the academic side, to the authors' knowledge, the literature does not provide methods for the simultaneous and systematic assessment of these three fundamental aspects of CSR commitment (company-disclosed, customer-required and customer-perceived). On the practical side, the research questions will be answered by developing a model based on customers' expectations and perceptions of the company CSR, which permits the company to monitor and account for the efficiency and effectiveness of its CSR initiatives. The proposed model represents an innovative and useful tool both for assessing ex-post CSR initiatives and for developing future CSR strategies on the basis of a practical classification of customer CSR feedback.

From an accountability perspective, even though the paper is focused on customers, the model can be applied indifferently to any stakeholder group (e.g. suppliers, employees, shareholders, etc.), providing a valuable instrument for materiality analysis. Namely, the method can be employed to identify "material" aspects of CSR, that impact on a company ability to create, preserve or dissipate economic, environmental and social value for itself and its stakeholders (GRI, 2011).

2. Literature review

The concept of CSR has expanded rapidly in recent decades, attracting attention from customers, stakeholders, research communities, governments, and companies. The European

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Commission defines CSR as "the responsibility of enterprises for their impacts on society" (European Commission, 2011, p. 6) and "a concept whereby companies integrate social and environmental concerns in their business operations and in their interaction with their stakeholders on a voluntary basis" (European Commission, 2001, p. 8).

2.1 Relationships between CSR and customer feedback

Today CSR is no longer limited to strictly philanthropic motivations and actions, but instead involves increasingly important managerial decisions in areas of economic, social and environmental aims (Harwood, Humby, & Harwood, 2011; Carroll & Shabana, 2010; Weber, 2008; Porter & Kramer, 2006). Stakeholders are increasingly interested and involved in environmental and social issues (Lee, Park, Rapert, & Newman, 2012; Sprinkle & Maines, 2010; Heslin & Ochoa, 2008) and prefer to deal with companies that conform to their personal values and beliefs (Vitell, Ramos, & Nishihara, 2010; Tencati & Zsolnai, 2009; Vanhamme & Grobben, 2009). Moreover, CSR research shows that stakeholder perceptions of a company's CSR commitment are positively related to company image and reputation and to capacities to attract, retain and motivate employees (Castaldo et al., 2009; Weber, 2008; Peterson, 2004; Greening & Turban, 2000). For these reasons, several studies suggest that it may be productive for companies to integrate social and environmental concerns in their core strategy and business operations (Belu & Manescu, 2012; Sprinkle & Maines, 2010; Martinuzzi, Gisch-Boie, & Wiman, 2010; Lin, Yang, & Liou, 2009; Shen & Chang, 2009). Nevertheless, shareholders push top management to achieve CSR profitability targets, inducing organizations to develop only those CSR policies consistent with cost-effective corporate behaviour (Maon, Lindgreen, & Swaen, 2010, 2009; Berger, Cunningham, & Drumwright, 2007; Mirvis & Googins, 2006). Managers can actually behave in a socially irresponsible manner, considering only their own interests and the prime aim of maximisation of shareholder value, without considering other stakeholder interests. In this regard, Armstrong (1977) suggests that a shareholder orientation encourages CSI, while a stakeholder orientation reduces it (Freeman, 1984).

Company conduct is often characterised by a complex mix between CSR and CSI (Del Bosco & Misani, 2011), which can vary according to stakeholder demands and market needs (Armstrong & Green, 2013). In this regard, Kotchen & Moon (2012) argue that firms will engage in CSR activities in proportion to their level of CSI activities, thus compensating for CSI to avoid being labelled as socially irresponsible. This happens in all business areas, and particularly in controversial sectors such as tobacco, alcohol, gambling and petroleum (Kolk & Levy, 2001), where socially irresponsible conduct can draw strong media attention. In these areas, the CSR/CSI balance may represent opportunistic behaviour, involving attempts to hide bad conduct (Cai, Jo, & Pan, 2011; Hemingway & Maclagan, 2004) and to exploit CSR as a protective facade in case of hostile events, thus contributing to shareholder welfare (Bansal & Clelland, 2004).

However, the irresponsible conduct of companies does not go unnoticed by customers and other stakeholders, because they have become much more sceptical and demanding about company CSR activities (Kim & Lee, 2009; Pomering & Johnson, 2009; Mohr et al., 2001). Customers prefer to select the companies that truly conform to their values and beliefs (Lee et al., 2012; Vanhamme & Grobben, 2009), namely those that demonstrate real concern for environmental and social problems. Moreover, socially responsible customers further punish those companies which present themselves as responsible, when these are publicly judged as socially irresponsible (Stokes, 2012; Lange & Washburn, 2012; Kotchen & Moon, 2012). Therefore, if company CSR activities and policies do not fit with customer values, beliefs and expectations, their positive effect could be lessened (Becker-Olsen et al., 2006; Greening & Turban, 2000; Peterson, 2004). For a company, it becomes imperative to understand customer feedback to CSR, which is dependent on the alignment that customers perceive between their

expectations and the company's CSR conduct (Sen & Bhattacharya, 2001).

2.2 Materiality analysis in CSR reporting

Companies must develop and maintain a match between their own values and those of their key stakeholders (GRI, 2011), yet current CSR literature offers little insight into how the companies can actually engage customers and other stakeholders regarding their CSR expectations and perceptions. To improve the quality and enhance the credibility of their CSR disclosure, companies must work hard to listen to feedback from customers and other stakeholders (CSR expectations and perceptions), as well as collaborating with them to obtain deeper insights and mutual benefits (Boesso & Kumar, 2009). The GRI highlights the importance of providing material reports covering topics and indicators that reflect the organization's significant economic, environmental, and social impacts and/or "that would substantively influence the assessments and decisions of stakeholders" (GRI, 2011, p. 8). The most serious problem with current CSR reporting is the lack of completeness in covering all the aspects that are material from a stakeholder perspective (e.g. Adams, 2004; de Villiers, C., & van Staden, 2010; O'Dwyer, Unerman, & Hession, 2005). Moreover, organizations do not face a homogeneous set of stakeholder expectations and perceptions (Unerman & Bennett, 2004) and there are no practical tools that offer effective support in identifying and analyzing the various groups of stakeholders (Boesso & Kumar, 2009). Even though guidelines have been developed to increase companies' communication and accountability concerning CSR, they are still insufficient to facilitate new accountability relationships, specifically those involving materiality analysis and stakeholder engagement (Moneva, Archel, & Correa, 2006). The process of stakeholder engagement is necessary for understanding the stakeholder expectations and needs, in order to define report content and the organization's sustainability activities (GRI, 2011). Reports and other forms of CSR disclosure are likely to result as not fully accountable and credible to customers and other stakeholders, unless these are engaged in the materiality assessment process. Thus a systematic engagement process is necessary to enhance stakeholder CSR perceptions and to strengthen trust between the organization and its stakeholders, for example in the form of customer-company fit.

2.3 Research gap

Practitioners and academics recognise the necessity of specific methods and tools for the systematic assessment of customer-company CSR fit (Lee et al., 2012). However while there have been several empirical studies of the importance of alignment between a company's identity and its CSR initiatives (e.g. Perrini, Russo, & Tencati, 2007; Becker-Olsen et al., 2006; Menon & Kahn, 2003), there has been less examination of the question of customer-company CSR fit (e.g. Lee et al., 2012). Most of the studies on customer response to CSR activities do not examine the variables of customer awareness and customer expectations about CSR (Mohr et al., 2001; Pomering & Dolnicar, 2009). Moreover, some studies focus only on the assessment of specific CSR activities or causes (Sen & Bhattacharya, 2001; Brown & Dacin, 1997; Creyer & Ross, 1996), without providing an overall assessment of the company CSR conduct (Maignan, 2001). Similarly the customer-company CSR fit is also studied only for specific initiatives and not for the overall company CSR conduct.

To respond to the current shortcomings in research and knowledge on how to assess customer-company CSR fit, this paper proposes a CSR model that classifies customers on the basis of their CSR feedback, measuring both their perceptions and expectations. The methodology concerns all CSR practices described by the Global Reporting Initiatives (GRI) guidelines, and is not restricted to specific CSR initiatives.

The approach taken for the CSR model is that of a "customer perspective", aiming at the identification of relevant customers and market segments that are critical to the achievement of companies' CSR strategic goals. This model is also suitable to both measure the efficacy of past CSR initiatives and to formulate future CSR strategies.

3. The CSR model

Companies must interpret and manage the growing customer awareness of CSR and align

their businesses accordingly if they wish to exploit CSR-driven opportunities. For this reason,

companies must consider CSR feedback (based on customer CSR expectations and

perceptions) and compare it to the company reported CSR.

Despite the importance that the literature ascribes to CSR measurement and customer-

company alignment, there are as yet no studies that provide methods for the simultaneous and

systematic assessment of three important aspects of CSR commitment (company-disclosed,

customer-perceived and customer-required). Moreover there is an overall lack of strategic

tools to exploit customer feedback regarding CSR.

In order to answer the main research question (How can customer CSR feedback improve the

effectiveness of a company's CSR?), we have broken it down into three sub-questions. The

answers to the sub-questions lead to the development of a CSR model subdivided in three

phases (Figure 1), with each phase of the model addressing one of the sub-questions.

[Figure 1]

The CSR model provides a simultaneous and systematic assessment of the three identified

aspects of CSR commitment. Applying the model, we classify customer CSR feedback by

means of a position matrix, thus permitting the companies to exploit customer feedback for

the identification and development of appropriate CSR initiatives.

The outputs of the first and second phase of the CSR model are three measures (Figure 1):

- "Disclosed Commitment" (DC), meaning the CSR commitment disclosed by means of the

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company's sustainability report and website;

- "Required Commitment" (RC), meaning the CSR commitment that customers require from the company;
- "Perceived Commitment" (PC), meaning the company's CSR commitment as perceived by its customers.

The output from the third phase of the CSR model is a CSR customer matrix that classifies customers on the basis of their CSR feedback (RC and PC) and the company-reported CSR (DC).

In the subsequent sub-sections we describe each phase of the CSR model.

3.1 Phase 1: CSR disclosure assessment

The purpose of the first phase of the CSR model is the assessment of DC, answering to the first sub-research question (How can the disclosure of a company's CSR commitment be assessed?). As indicated in the introduction, companies must continuously disclose their CSR efforts to their customers by means of sustainability reports and websites. Nevertheless, company CSR commitment could be considered inadequate by customers, because of misalignment with their expectations and perceptions. We choose the Global Reporting Initiative's Sustainability Reporting Guidelines (GRI, 2011) as the basis for assessing DC (also RC and PC), because it is considered one the most complete and best structured frameworks for CSR reporting (Bouten et al., 2011; Farneti & Guthrie, 2009; Lamberton, 2005). The GRI guidelines are also considered appropriate for all industrial sectors and company dimensions (Alan Willis, 2003). The GRI is subdivided under three sustainability dimensions: economic (EC), environmental (EN) and social, with the social dimension further divided in four sub-dimensions, namely labour practices and decent work (LA), human rights (HR), society (SO) and product responsibility (PR) (GRI, 2011). Given the exhaustive structure of GRI, the proposed model permits analyses of each aspect of the company CSR by means of GRI dimensions, sub-dimensions and indicators.

From this point onwards we refer to clusters of homogeneous GRI indicators as "CSR items" (Table 1): for example, the GRI indicators LA6, LA7, LA8 and LA9 describe various aspects of the labour health and safety, and they are grouped together in the "occupational Health and Safety" CSR item.

[Table 1]

We apply content analysis in the assessment of company-reported CSR, as this method has previously proven widely effective in the discovery and analysis of patterns in CSR reporting (Bouten et al., 2011; Striukova, Unerman, & Guthrie, 2008; Beattie & Thomson, 2007; Guthrie & Abeysekera, 2006). Content analysis is a research methodology for the standardised evaluation of textual information (Krippendorff, 2004; Neuendorf, 2002; Weber, 1990). To carry out the content analysis we integrate the GRI guidelines in a "tree form" coding structure (Figure 2). The use of the tree approach offers two main advantages: it minimises confusion concerning criteria and reduces disagreement among individual coders (Krippendorff, 2004). The coding tree consists of two layers: i) content and ii) judgments. The "content layer" in turn consists of two levels: i) the GRI dimensions/sub-dimensions and ii) the CSR items. As diagrammed in the content layer, the coders associate elements of the sustainability-report content first to GRI dimensions/sub-dimensions, and then to CSR items. Next, the coders assign a value to each CSR item on a Likert scale from 1 to 5, based on their judgment of the degree of commitment that sustainability report expresses concerning that particular CSR item.

To reliably measure disclosed commitment (DC) through content analysis, the company sustainability report must be analysed by multiple expert coders, with the coding discrepancies between the coders subject to discussion, reanalysis and reconciliation (Milne &

Adler, 1999). The coders' expertise in CSR must be assessed on the basis of their actual work and research experience in the CSR field (i.e. they must be CSR managers and/or researchers).

[Figure 2]

To demonstrate the reliability of the content analysis, agreement among coders (intercoder reliability) must be measured and expressed. Intercoder reliability is "the extent to which independent coders evaluate a characteristic of a message or artefact and reach the same conclusion" (Lombard, Snyder-Duch, & Bracken, 2002). The measure of intercoder reliability is an essential criterion for validating subjective coding of data in content analysis. Krippendorff's alpha is considered the most suitable index for reporting overall reliability in content analysis (Hayes & Krippendorff, 2007; Krippendorff, 2004; Lombard et al., 2002; Neuendorf, 2002).

Lombard, Snyder-Duch, & Bracken (2002) argue that a reliability coefficient equal to or greater than 0.90 should nearly always be considered acceptable, while 0.80 or greater is acceptable in most situations, and 0.70 may be appropriate in some exploratory studies. Lower thresholds can be accepted for indices that are known to be more conservative (e.g. Krippendorff's alpha, Cohen's kappa and Scott's pi).

3.2 Phase 2: Customer CSR expectations and perceptions assessment

The purpose of the second phase of the CSR model is the assessment of required commitment (RC) and perceived commitment (PC), answering to the second research sub-question (How can the customer expectations and perceptions of a company's CSR commitment be assessed?). RC and PC are two important aspects of customer CSR feedback that can be

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exploited by companies to formulate effective CSR strategies, since the two variables both influence customer purchase intentions, customer loyalty and customer-company identification.

Customer judgments are collected by means of a questionnaire structured to assess, for each CSR item, both the required commitment (RC), and the perceived commitment (PC).

To illustrate the questionnaire structure, we provide the example of the CSR item "customer health and safety" (GRI indicators PR1+PR2):

- Question for assessing RC: "Considering the company under study, what are your expectations of the company CSR commitment regarding the reduction of products and services that impact on health and safety across their life cycle?" The customer must answer using a five-point Likert scale: very low (1); low (2); fair (3); high (4); very high (5).
- Question for assessing PC: "Considering the company under study, what are your
 perceptions of the company CSR commitment regarding the reduction of products and
 services that impacts on health and safety across their life cycle?" The customer must
 answer using the Likert scale.

Similar pairs of questions are formulated for each CSR item defined in Table 1.

The interviewees for administration of the questionnaire must be chosen in a manner that obtains a representative sample of the company customers. The sampling techniques suggested are random sampling, or stratified sampling if data about the composition of the company customers are known. A two stage sampling procedure (store randomly sampled in the first stage and customers randomly sampled in the second stage) is suggested to contain the total number of interviews and costs, given the desired accuracy.

Since the purpose of the proposed CSR model is to classify customers on the basis of CSR feedback, it is important to identify the largest possible number of customer characteristics,

and in particular customer type (purchase frequency), customer gender, customer education,

and age.

3.3 Phase 3: Customer CSR feedback classification

The third phase of the CSR model consists of the completion of the CSR customer matrix,

with the purpose of answering to the third sub-research question sub-question (How can

customer CSR feedback be classified for company benefit?). In this phase we compare the

outputs of the previous phases (DC, RC and PC) in order to classify company customers on

the basis of their CSR feedback (Figure 3).

[Figure 3]

It is crucial for the company to understand its customer classification because this then allows

it to correct existing CSR initiatives or implement new ones. The model presented permits

companies to understand customer feedback regarding their CSR commitment. Companies

can analyse the demographic composition (gender, age, education, etc.) of each customer

category, thus focusing their investments in CSR and strategically differentiating their CSR

efforts. The objective of applying the model is to increase the effectiveness and efficiency of

the company's CSR practices, in terms of client involvement and satisfaction of their

expectations.

In applying the CSR customer matrix, we can distinguish six typologies of customers:

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disappointed, sceptical, wooed, caught, deluded and demanding.

3.3.1 Disappointed

Here, the company discloses a degree of CSR commitment (DC) that is lower than customer expectations (RC) (in formula DC<RC), and therefore the CSR efforts reported fail to meet the customer demands. In addition, the value of customer perception (PC) is less than the disclosed commitment (DC) (PC<DC).

Under this aspect of the scenario, either the customer shows no confidence in the transparency of the company sustainability report or is unaware of the full contents of the sustainability report, meaning of the company CSR initiatives. In reality, it can occur that customers are not in any way aware of the existence of the company sustainability report.

In the first case, the customer lack of confidence in the sustainability report can be a consequence of previous CSI conduct (Kotchen & Moon, 2012), or customers may believe that the real company commitment is lower than the disclosed commitment because the company could tend to magnify the goodness of its CSR conduct for the purposes of the report (Nielsen & Thomsen, 2007). In the second case, the company has not been able to effectively communicate its true commitment to customers, for example by explaining and emphasising through information campaigns (traditional media, Web, etc.).

For the disappointed customer, PC is thus definitely lower than RC (PC<DC<RC): the customer does not perceive that the company CSR commitment satisfies her/his expectations. In this overall situation, the customer is disappointed by the company CSR conduct (Mohr et al., 2001). Customer disappointment could create an unfavourable environment for the company, in extreme cases leading to boycotts (Seidman, 2007). When a company fails to meet customer expectations, time and efforts are necessary to regain customer trust and loyalty, company reputation and customer-company alignment (Hong, Yang, & Rim, 2010; Castaldo et al., 2009; Lamberti & Lettieri, 2009; Marin, Ruiz, & Rubio, 2009). If previous CSI conduct has been detected, greater efforts and time are required (Brunk & Blümelhuber,

2011). Nonetheless, customer CSR expectations are generally very high and, consequently, the percentage of disappointed customers can be significant, especially in controversial sectors (Cai et al., 2011).

In the case of disappointed customers, CSR initiatives should focus on increasing CSR commitment and on understanding customer beliefs, values, and demands (Vitell, 2003), in order to improve customer-company alignment (Hong et al., 2010; Marin et al., 2009). Companies should also improve communication of CSR efforts, to improve customer perception of the true company CSR commitment (Pomering & Dolnicar, 2009; Maignan, 2001; Mohr et al., 2001).

3.3.2 Sceptical

The disclosed CSR (DC) is greater than or equal to the customer expectations (RC). In this situation (DC≥RC), the company-disclosed commitment meets or exceeds customer demands. However, the customer does not perceive the company efforts as satisfactory (PC<RC), and, consequently, the customer perception (PC) is lower than the reported CSR conduct (DC) (PC<DC).

In this category (PC<RC≤DC), the customer is sceptical about the company disclosed CSR commitment or towards CSR in general (Kim & Lee, 2009; Pomering & Johnson, 2009; Forehand & Grier, 2003). The scepticism about company CSR efforts could be caused by ineffective CSR communication (Pomering & Dolnicar, 2009). In contrast, customer scepticism will decrease when the company demonstrates and communicates appropriate CSR efforts in the long run (Mohr & Webb, 2005).

In order to obtain public recognition for its CSR efforts and to enhance customer-company alignment, the company's CSR initiatives should focus both on maintaining high commitment and on improving its CSR communication (Lee et al., 2012; Pomering & Johnson, 2009;

Vanhamme & Grobben, 2009).

3.3.3 *Wooed*

As in the sceptical case, the reported CSR conduct (DC) is greater than or equal to customer expectations (RC) (DC≥RC) and greater than customer perceptions (PC) (DC>PC). However, in this case, the customer perceives the company CSR efforts as satisfactory, since she/he perceives CSR (PC) as greater than or equal to expectations (RC) (RC≤PC<DC).

In this situation, the customer is wooed by the company, and feels that the company is socially responsible. Nevertheless, the company's disclosed efforts (DC) are not completely recognised by its customers (Becker-Olsen et al., 2006; Menon & Kahn, 2003). For this reason, both CSR communication and CSR investments should be managed in a manner to align RC with DC, in order to increase customer CSR awareness and demands (RC) and to be able to generate shared value from the high company CSR disclosed commitment (DC) (Porter & Kramer, 2011; Pomering & Johnson, 2009; Porter & Kramer, 2006).

3.3.4 *Caught*

As in the sceptical and wooed cases, the CSR efforts that the company discloses (DC) are higher than or equal to those that the consumer demands (RC) (DC≥RC). Moreover, in this situation the company successfully communicates its CSR practices, and its CSR disclosed commitment (DC) is very much perceived by its customers (PC) (PC≥DC). Consequently, the customer perceives the company CSR efforts as satisfactory: her/his perceptions (PC) are greater than or equal to her/his expectations (RC) (PC≥RC).

In this scenario (RC \leq DC \leq PC), the customer is "caught" by the company CSR disclosed commitment. The company invests to gain the long term trust of its customers and obtains public recognition: both company reputation and customer-company identification are very

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good (Peterson, 2004; Hong, Yang, & Rim, 2010; Castaldo et al., 2009; Marin, Ruiz, & Rubio, 2009). The company is able to exploit its reputation as a competitive advantage (Becker-Olsen et al., 2006; Menon & Kahn, 2003; Sen & Bhattacharya, 2001). The customer is loyal (Vlachos & Tsamakos, 2011) and proud to be a stakeholder of this socially responsible company (Turban & Greening, 1997).

CSR initiatives have to retain the company's caught customers. Accordingly, CSR commitment has to be sustained over time in order to avoid customers become either deluded, demanding or disappointed (Becker-Olsen et al., 2006; Freeman, 1994; Pomering & Dolnicar, 2009).

3.3.5 Deluded

As in the disappointed case, the company discloses a CSR commitment (DC) lower than customer expectations (RC) (DC<RC), failing to meet the customer demands. However, the customer perceptions (PC) are greater than or equal to the disclosed commitment (DC) (PC≥DC). The customer perceptions (PC) are aligned with or exceed their expectations (RC), and the company is recognised as socially responsible (PC≥RC).

In this situation (DC<RC≤PC), the customer is deluded about the company CSR conduct. The company either is exploiting the effect of a past CSR reputation or is benefitting from customer cognitive bias.

The overestimation of the company commitment is temporarily positive but in the long term could be damaging to the company image if CSR commitment is not improved (Brunk & Blümelhuber, 2011). Customers may act in ways that penalise those companies perceived as socially committed but subsequently recognised as not sufficiently responsible (Pomering & Dolnicar, 2009; Becker-Olsen et al., 2006). CSR initiatives should focus on improving the CSR commitment and the CSR customer-company alignment.

3.3.6 Demanding

As in the deluded case, the company disclosed commitment (DC) is lower than the customer required commitment (RC) (DC<RC) and the customer perceives a commitment (PC) greater than or equal to the disclosed commitment (DC) (PC\ge DC). However, in this situation, customer perception (PC) is lower than expectations (RC) (PC<RC).

In this scenario (DC≤PC<RC), the customer is very demanding in terms of CSR conduct. The company is not able to meet the customer CSR requirements and it is not considered as sufficiently responsible (Pomering & Dolnicar, 2009; Schlossberger, 1994; Freeman, 1994). CSR initiatives should focus on increasing CSR investments for improving the fit between the company CSR commitment and customer expectations, preferences and values (Kotchen & Moon, 2012).

In both the disappointed case (PC<DC<RC, section 3.3.1) and the demanding case the customer is exigent in terms of CSR conduct. However in the disappointed category the value of customer perception (PC) is less than the disclosed commitment (DC), so the customer is more characterized by a condition of "disappointment about what he/she perceived" than by high levels of "demandingness". The "disappointed" case presents more difficulty to the company in regaining customers' CSR trust, compared to the problem of satisfying customers of the "demanding" category.

4. An illustrative application to an Italian retail company

In this section, as a practical illustration, we apply the proposed CSR model to a retail company operating in Italy. Italy is a world leader in the number of companies certified under sustainability standards (Ciliberti, Pontrandolfo, & Scozzi, 2008). We choose the retail sector because recent studies have revealed the role of CSR as a key factor in the market positioning

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of retail companies (Elg & Hultman, 2009; Jones, Comfort, & Hillier 2005). Customers hold retailers responsible for the socially responsible conduct of all the actors in their supply chain (Amaeshi, Osuji, & Nnodim 2008; Fuchs & Kalfagianni, 2009), especially if the suppliers are operating in developing countries (Fernie, Sparks, & McKinnon, 2010, Pedersen & Andersen, 2006). To be effective in terms of CSR, retail companies need all the firms in their supply chain to act in a socially responsible manner.

In this respect, the retail company chosen as illustrative example carefully evaluates the whole supply chain, in order to ensure compliance to sustainability standards, by means of an interactive CSR management system that controls the whole business network. The retail company operates in Rome (Italy) with nine stores of various dimensions (3 large stores, 3 medium store, 3 small stores) and about 70,000 members. The company considers CSR commitment as a crucial strategic area and is heavily involved in environmental protection, customer satisfaction, and human rights protection. Since 2001, it has published an annual Social Report, initially as information for external stakeholders, but which has now also become a tool for planning and monitoring. In 2008, the retail company renamed this document as a Sustainability Report, to highlight the concept that it not just a social, but also an environmental and economic reporting tool.

In the first phase of the model application, we measured the retail company's disclosed commitment (DC) through the content analysis of the company Sustainability Report. The analysis was performed by four professional researchers, each of whom has been active in the CSR field since at least 2008, including in publishing research.

First, all coders agreed (intercoder reliability 100%) to eliminate the CSR items deemed not relevant for the DC assessment of the retail company: "effluents and spills" (EN21+EN23+EN25), "security practices" (HR8), "financial assistance received from a government" (EC4), "freedom of association and collective bargaining" (HR5), "public

policy" (SO5+SO6) and "anti-competitive behaviour" (SO7). Then, the remaining CSR items

were assigned judgment values (Table 3) with an overall intercoder reliability of 92.8%. Both

intercoder reliability measures were calculated by means of the Krippendorff's alpha and the

ReCal3® tool (Krippendorff, 2004; Freelon, 2010).

In the second phase of the model application, we submitted a questionnaire to the retail

company's customers in order to assess "required" and "perceived" CSR commitment (RC

and PC). Each questionnaire takes longer than half an hour to be administered, therefore, due

to time and resource constraints, it was decided to limit the dimension of the sample by means

of a two-stage sampling procedure. In the first stage, we randomly sampled 3 stores (one for

each store dimension). In the second stage, we sampled customers, with probability

proportional to the store size. For the current illustrative application we submitted a

questionnaire to a sample of 189 customers. The sample is described in Table 2, according to

four characteristics: customer type (regular or occasional purchase frequency); customer

gender; customer education (low, medium, high); and age (under 40, 40 to 60, over 60,

corresponding to adult, middle-aged, senior). Each customer expressed a judgment on the

CSR items in the economic, environmental and social sustainability dimensions.

[Table 2]

Subsequently, the internal consistency of questionnaires submitted to the company customers

was analysed: the Cronbach's alpha scores are acceptable both for the required commitment

(RC) and perceived commitment (PC), respectively 96.3% and 93.5% (Cronbach et al., 1972).

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Table 3 shows the values of DC, RC and PC for each CSR item.

[Table 3]

In the third phase we employed the CSR model to classify the company customers in different types, according to their CSR feedback. In this particular example of applying the model, high percentages of sceptical customers and significant percentages of disappointed customers are detected (Figure 4).

Concerning items in the economic dimension (EC), the results show that, on average, 34.7% of the retail company customers are sceptical about company CSR efforts, and 30.1% are "wooed" by the company CSR conduct. "Caught" customers are 14.3%, while 13.0% are disappointed. The percentages of demanding and deluded customers are very low, respectively 5.0% and 3.0%.

Concerning the environmental dimension (EN), we observe that there are high percentages of sceptical (24.4%), disappointed (21.8%), and demanding (19.5%) customers, and lower percentages of caught (15.1%), deluded (10.7%) and wooed (8.5%) customers.

The social dimension is expressed by four sub-dimensions: labour practices and decent work (LA), human rights (HR), society (SO) and product responsibility (PR). Results for LA, HR and SO sub-dimensions show high percentages of sceptical customers (between 32.3% for the SO and 39.6% for the LA sub-dimensions), and very low percentages of both deluded (5.1% for LA and 7.7% for HR) and demanding customers (between 5.9% of HR and 7.9% of SO). For these same LA, HR and SO sub-dimensions, the percentages of caught customers are between 16.8% (SO) and 25.4% (HR), wooed customers are between 15.4% (for LA) and 19.8% (for SO), and disappointed customers are between 6.3% (HR) and 15.7% (SO). Compared to these first three sub-dimensions, the results for the PR sub-dimension show lower percentages of sceptical, wooed and disappointed customers (respectively 20.7%, 10.5%, 7.0%), balanced by greater shares of deluded, caught, and demanding ones (respectively 25.3%, 22.0% and 14.5%).

[Figure 4]

The CSR customer matrix permits a more detailed CSR assessment, through analysis of each

GRI dimension and item with respect to both store dimensions (small, medium and large) and

customers' characteristics (age, gender, education, purchase frequency). As an example, we

propose an analysis of the productive responsibility (PR) sub-dimension (Figure 5) and, a

more detailed one of the PR1+PR2 items (customer health and safety) within this PR sub-

dimension (Figure 6).

Analysis of the PR items shows that for this overall sub-dimension, highly educated

respondents seem to be more wooed than those of medium and lower education: wooed

judgments are 16.4% among highly educated respondents and respectively 7.9% and 9.8% for

the medium and lower educated ones. Highly educated respondents are also less deluded:

deluded judgments are 20.0% for highly educated respondents and 29.7% and 22.5% from the

medium and lower educated (Figure 5).

Concerning the aspect of gender differences, male respondents are on average less sceptical

than female ones (male scepticals are 18.3%, female scepticals are 22.6%). However, male

respondents appear to be more deluded than female ones (male deluded are 28.4%, female

deluded are 23.0%). Senior customers appear more wooed and less deluded than middle-aged

and adult ones. The percentages of sceptical customers are on average lower and the

percentages of caught ones are on average higher in the case of regular customers of medium

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retail stores.

[Figure 5]

To further illustrate the utility of the proposed model in the detailed analysis of individual aspects of CSR, we provide the example of the measurement for PR1+PR2 (customer health and safety, product responsibility sub-dimension) are seen in Figure 6.

In reference to this CSR item, the customers interviewed are generally less sceptical and wooed and more deluded and demanding, compared to the analysis conducted for the overall product responsibility (PR) sub-dimension. This occurs independently of the retail store dimension and of customer characteristics (purchase frequency, age, gender, education). A situation of this type would suggest that the company should focus on the requirements of the demanding customers, to increase their perception of customer health and safety, and in consequence to increase the company's CSR efforts in terms of product responsibility.

[Figure 6]

As seen from the different analyses in the example presented, the CSR customer matrix permits the company to classify its clients in different categories. This classification then enables the company to identify the clients on whom it is necessary to focus CSR efforts and investments (for example disappointed customers) and for whom it should develop maintenance initiatives (for example caught customers). Application of the model thus permits the company to identify potential weak points in its CSR and to improve the effectiveness and efficiency of its CSR activities.

Improvement in effectiveness of CSR practices derives from profiling the clients belonging to each category. Referring to the illustrative example, Figure 6 shows that the disappointed category is primarily composed of the clients with the characteristics: customer of a small store, occasional, senior, female, and lower-educated. Thus, using this model, if the company wishes to improve customer perception of its CSR actions concerning a category (here, the

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"disappointed"), it can now observe the composition of this category. In this manner the company can focus its CSR investments in terms of commitment and communication, towards the target clients it views as critical.

Improvement in efficiency of CSR practices derives from the company's greater awareness of its clientele, thus permitting selective CSR investments with respect to the client profiles that it views as critical, and optimisation of returns on such investments.

5. Accounting implications

This paper focuses mainly on the opportunity to enhance the effectiveness of companies' CSR initiatives by exploiting customer CSR feedback. The comparison of three aspects of CSR commitment (DC, PC and RC) reveals strengths and weaknesses of past CSR initiatives, affecting customer purchase intentions, customer loyalty and customer-company identification. Also, the model offers a useful tool for the development of future CSR strategies, taking into account customer classification. In the current study we apply our model to the analysis of customer CSR feedback, however the underlying reasoning remains valid for any stakeholder group (suppliers, employees, shareholders, etc.), therefore the model is equally applicable to all types of stakeholders.

From an accountability perspective, one of variables in the CSR model, disclosed commitment (DC), is measured on the basis of the company sustainability report. This means that the model provides a valuable instrument for materiality analysis, because it reveals the gap between reported CSR commitment (DC) and stakeholder needs (RC and PC). The method can be employed to identify material aspects of CSR, which impact on the company's ability to create, preserve or dissipate economic, environmental and social value for itself and its stakeholders (GRI, 2011). Indeed, the most serious problem with current CSR reporting is the lack of completeness in covering all aspects that are material from a stakeholder

perspective (e.g. Adams, 2004; de Villiers, C., & van Staden, 2010; O'Dwyer, Unerman, & Hession, 2005). The GRI highlights the importance to provide material reports covering topics and indicators that "reflect the organization's significant economic, environmental, and social impacts" and/or "that would substantively influence the assessments and decisions of stakeholders" (GRI, 2011, p. 8).

In effect, the main objective of the materiality principle is to provide stakeholders with information consistent with their expectations, so that they can assess the company performance (Bouten, et al., 2011; Hsu et al., 2013). Indeed, material reports provide stakeholders with information that will allow them to evaluate the organization's long and short-term social and environmental performance (Bouten et al., 2011; Gray, 2006; Muñoz-Torres et al., 2012). Organizations face a wide range of topics on which they should report, nevertheless many of the relevant topics and indicators are those that can reasonably be expected to influence the stakeholders' perceptions and decisions (such as concerning the intention to purchase, or development of customer loyalty). The aim of materiality analysis is to identify relevant issues for CSR reporting and prioritize these material issues in accordance with stakeholder needs and expectations (Deegan & Rankin, 1997; Hsu et al., 2013).

In this regard, the proposed CSR model can support companies in assessing the materiality of CSR aspects and indicators from the viewpoint of the targeted stakeholder groups (e.g. customers), through their classification on the basis of their CSR feedback. For example, when a great percentage of stakeholders are classified as "disappointed", it is likely that the information disclosure will be considered as unsatisfactory in regards to stakeholder expectations (DC<RC) and perceptions (PC<DC). In this case, a high percentage of concerned stakeholders reveal the probability of failure in the information disclosure of sustainability reporting: either the stakeholders show no confidence in the transparency of the

company sustainability report or they are unaware of the full contents of the sustainability report, meaning of the company CSR initiatives.

The main advantage of the method is that it allows the deconstruction of CSR into all its components, deepening the materiality analysis of every CSR dimension, sub-dimension, aspect and indicator. Moreover, "stakeholder engagement processes can serve as tools for understanding the reasonable expectations and interests of stakeholders" (GRI, 2011, p. 10). From this perspective, the stakeholder classification enables the company to identify the relevant stakeholders on whom it is necessary to focus its CSR efforts and investments, thus making the CSR model an effective tool for improving stakeholder engagement.

6. Conclusions

The fact that national and multinational companies determine strong impacts in society and the environment implies that they must consider the sustainability of their business approaches. In the present scenario, customers and other stakeholders are increasingly responsible and sensible toward environmental and social issues and so take greater account of sustainability concerns in their purchase choices. In order to establish long lasting relationships with their stakeholders in general and their customers in particular, companies must interpret and manage the growing stakeholder awareness and align business activities accordingly. Thus it is important for companies to compare their declared CSR commitment to the degree of CSR efforts that customers (or other stakeholders) perceive and expect from the company.

In spite of this context, and the importance that the literature ascribes to customer-company CSR fit and to materiality analysis, studies in CSR have not provided us with models for the simultaneous and systematic assessment of three important aspects of CSR commitment,

namely company-declared, customer-perceived and customer-required commitment, nor with a strategic tool for exploiting customer CSR feedback. Since companies are open systems they need to understand customer feedback on their CSR policies: the simultaneous measure of the three aspects of CSR commitment would allow the development of analyses illustrating the current strength of relations between the company and its customers.

In order to organise and to manage the information provided by customer feedback, this paper has proposed a CSR model. Customers are classified in six categories with regard to their feedback to the company CSR commitment (demanding, sceptical, disappointed, wooed, caught, and deluded customers). This customer classification allows companies to implement targeted CSR initiatives and to identify their potential strengths and weaknesses. In addition, it allows companies to analyse the demographics of the customer categories in order to align their CSR strategies with customer stratification, thus improving the effectiveness and efficiency of their CSR activities.

Moreover, even though the paper is focused on customers, the model can be applied indifferently to any stakeholder group. The comparison of three aspects of CSR commitment puts in evidence the gap between reported CSR commitment and stakeholder needs, providing a valuable instrument for materiality analysis. Materiality analysis provides stakeholders with information that will allow them to evaluate the organization's long and short-term social and environmental performance. The proposed CSR model can support companies in assessing the materiality of CSR aspects and indicators from the viewpoint of targeted stakeholder groups (e.g. customers, suppliers, shareholders, etc.), through the stakeholders' classification on the basis of their CSR feedback. Finally, the model encourages companies to develop systematic stakeholder engagement processes as tools for understanding the reasonable expectations and interests of stakeholders for corporate accountability purposes.

Finally, the model offers the further advantages of simplicity in use and interpretation,

offering useful and practical information to the companies concerned. It is applicable to any context in which companies are committed to CSR and intend to communicate their efforts to customers.

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Figures

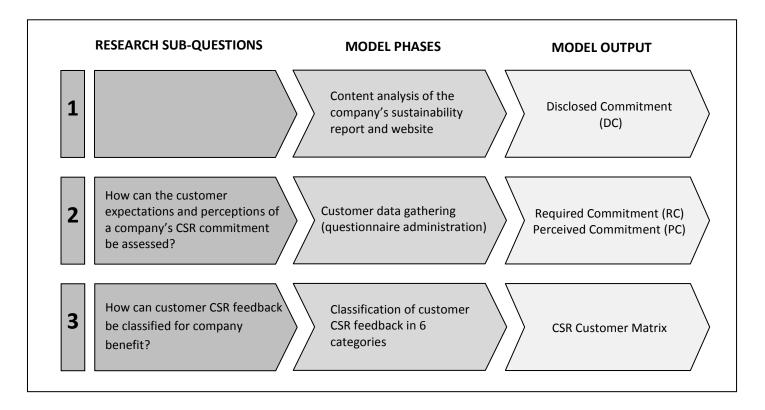


Figure 1: Research sub-questions linked to the three phases of the CSR model

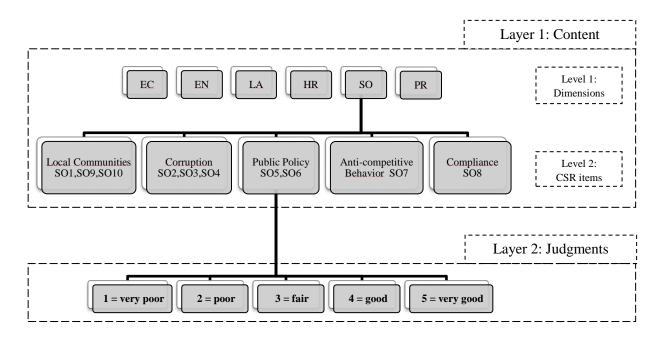


Figure 2: The coding structure of content analysis

	PC <	RC	$PC \ge RC$				
	PC < DC	$PC \ge DC$	PC < DC	$PC \ge DC$			
RC	PC <rc≤dc< th=""><th></th><th>RC≤PC<dc< th=""><th colspan="3">RC≤DC≤PC</th></dc<></th></rc≤dc<>		RC≤PC <dc< th=""><th colspan="3">RC≤DC≤PC</th></dc<>	RC≤DC≤PC			
DC >	Sceptical		Wooed	Caught			
RC	PC <dc<rc< th=""><th>DC≤PC<rc< th=""><th></th><th>DC<rc≤pc< th=""></rc≤pc<></th></rc<></th></dc<rc<>	DC≤PC <rc< th=""><th></th><th>DC<rc≤pc< th=""></rc≤pc<></th></rc<>		DC <rc≤pc< th=""></rc≤pc<>			
DC <	Disappointed	Demanding		Deluded			

Figure 3: The CSR Customer Matrix based on the comparison among company disclosed commitment (DC), customer required commitment (RC) and customer perceived commitment (PC)

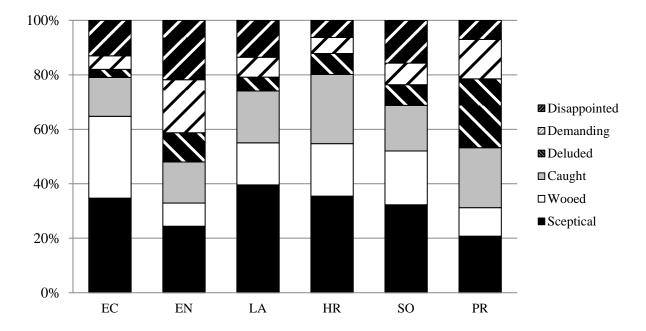


Figure 4: Customer judgments by CSR dimensions

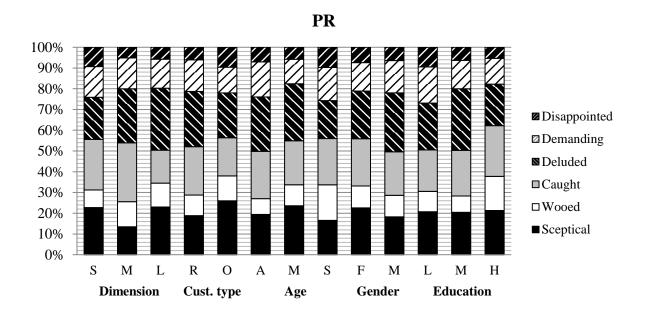


Figure 5: Customer judgments for PR social sub-dimension*
*Dimension (Retail Store Dimension: S = small; M = medium; L = large), Customer type (R = regular; O = occasional),
Age (A, adult = "20-40"; M, middle aged = "40-60"; M, senior = ">60"), Gender (M = female; M = male), Education (M = low; M = medium; M = high).

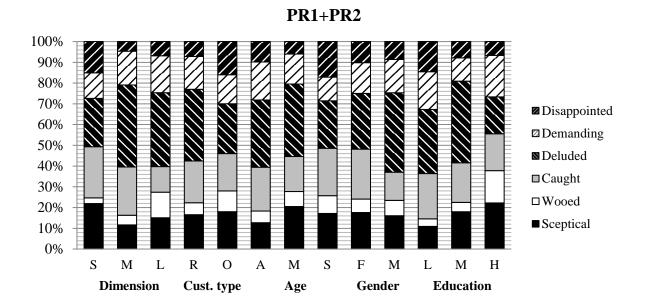


Figure 6: Customer judgments for PR1+PR2 CSR item (Customer Health and Safety)*

*Dimension (Retail Store Dimension: S = small; M = medium; L = large), Customer type (R = regular; O = occasional),

Age (A, adult = "20-40"; M, middle aged = "40-60"; M, senior = ">60"), Gender (M = female; M = male), Education (M = low; M = medium; M = high).

Tables

CSR dimension	CSR sub-dimension	CSR items					
		Direct economic value (EC1)					
		Financial implications due to climate change (EC2)					
Economic		Organization's benefit plan obligations (EC3)					
Environmental	-	Financial assistance received from a government (EC4)					
		Market presence (EC5+EC6+EC7)					
		Indirect Economic Impacts (EC8+EC9)					
		Materials (EN1+EN2)					
		Energy (EN3+EN4+EN5+EN6+EN7)					
		Water (EN8+EN9+EN10)					
		Biodiversity (EN11+EN12+EN13+EN14+EN15)					
		Emissions (EN16+EN17+EN18+EN19+EN20)					
Environmental	-	Effluents and spills (EN21+EN23+EN25)					
		Waste(EN22+EN24)					
		Products and Services (EN26+EN27)					
		Compliance with environmental laws and regulations (EN28)					
		Transport (EN29)					
		Overall (EN30)					
		Employment (LA1+LA2+LA3+LA15)					
	Lahan Duastiass and	Labor/Management Relations (LA4+LA5)					
	Labor Practices and Decent Work (LA)	Occupational Health and Safety (LA6+LA7+LA8+LA9)					
	Deceill Work (LA)	Training and Education (LA10+LA11+LA12)					
		Diversity and Equal Opportunity (LA13+LA14)					
		Investment and Procurement Practices (HR1+HR2+HR3)					
		Non-discrimination (HR4)					
		Freedom of Association and Collective Bargaining (HR5)					
		Child Labor (HR6)					
	Human Rights (HR)	Forced and Compulsory Labor (HR7)					
		Security Practices (HR8)					
		Indigenous Rights (HR9)					
0 1		Remediation (HR10)					
Social		Assessment (HR11)					
		Local Communities (SO1+SO9+SO10)					
		Corruption (SO2+SO3+SO4)					
	(00)	Public Policy (SO5+SO6)					
	Society (SO)	Anti-Competitive Behavior (SO7)					
		Compliance with laws and regulations related to accounting					
		fraud, workplace discrimination and corruption (SO8)					
	Product Responsibility (PR)	Customer Health and Safety (PR1+PR2)					
		Product and Service Labeling (PR3+PR4+PR5)					
		Marketing Communications (PR6+PR7)					
		Customer Privacy (PR8)					
		Compliance with laws and regulations concerning provision					
		and use of products and services (PR9)					

Table 1: GRI structured framework: CSR dimensions, sub-dimensions and items.

Cust. ty	/pe (%)	Α	Age (%)	Gende	er (%)	Education (%)		
R	О	Α	M	M S		M	L	M	Н
73.5	26.5	37.6	43.9	18.5	57.1	42.9	29.1	47.1	23.8

Table 2: Customer sample characteristics*

*Customer type (R = regular; O = occasional), Age (A, adult = "20-40"; M, middle aged = "40-60"; S, senior = ">60"), Gender (F = female; M = male), Education (L = low; M = medium; H = high).

Avg Med Mode S.D. Avg S.D. Avg Med Mode S.D. Avg A		Cab :	DC			RC				PC				
2		CSR item	Avg	Med	Mode	S.D.	Avg	Med	Mode	S.D.	Avg	Med	Mode	S.D.
Section Sect	EC	1	4	4	4	0	3.74	4	4	0.96	3.34		3	0.79
Section Sec									4	0.96				
Sign									4	0.94				
Total EC		5,6,7				0	4.02	4	4	0.90	3.34		3	0.82
1,2		8,9	4.75		5	0.5			4	0.95				
3, 4, 5, 6, 7			4.35	4	4	0.49								
R, 9, 10		1,2				0	4.41			0.71	3.62	4	3	0.86
Total EN														
Total EN														
22,24		11, 12, 13, 14, 15	4	4		0	4.33			0.79			3	
26, 27		16, 17, 18, 19, 20	4.25	4	5	0.5	4.48			0.70			3	0.83
28	EZ		4	4	4	0	4.60			0.66		4	4	0.88
29		26, 27	4	4	4	0	4.34			0.75	3.52	4	4	
30			4	4	4	0	4.45			0.70			4	0.87
Total EN 4.08	•		4	4	4	0	4.24		5	0.81	3.32		3	0.90
1,2,3,15	•	30	4	4	4	0	4.32	5	5	0.81	3.46	3	3	0.90
4, 5 4 4 4 0 4.20 4 5 0.86 3.26 3 3 0.81 6, 7, 8, 9 5 5 5 0 4.51 5 5 0.70 3.68 4 4 0.92 10, 11, 12 4 4 4 0 4.10 4 4 0.79 3.35 3 3 0.84 13, 14 4 4 4 0 4.37 5 5 0.75 3.59 4 3 0.92 Total LA 4.40 4 4 0.50 4.31 4 5 0.78 3.47 3 3 0.88 1, 2, 3 5 5 5 0 4.08 4 4 0.88 3.20 3 3 0.86 4 4 4 4 4 0 4.39 5 5 0.72 3.79 4 3 0.99 4	•	Total EN	4.08	4	4	0.53	4.41	5	5	0.74	3.46	3	3	0.89
Example 10, 11, 12 5 5 5 0 4.51 5 5 0.70 3.68 4 4 0.92 10, 11, 12 4 4 4 0 4.10 4 4 0.79 3.35 3 3 0.84 13, 14 4 4 4 0 4.37 5 5 0.75 3.59 4 3 0.92 Total LA 4.40 4 4 0.50 4.31 4 5 0.78 3.47 3 3 0.88 1, 2, 3 5 5 5 0 4.08 4 4 0.88 3.20 3 3 0.86 4 4 4 4 0 4.39 5 5 0.72 3.79 4 3 0.93 6 5 5 5 0 4.56 5 5 0.72 3.79 4 3 0.93 9 5		1, 2, 3, 15	5	5	5	0	4.35	4	5	0.73	3.45	3	3	0.86
Total LA	•	4, 5	4	4	4	0	4.20	4	5	0.86	3.26	3	3	0.81
Total LA	< 1	6, 7, 8, 9	5	5	5	0	4.51	5	5	0.70	3.68	4	4	0.92
Total LA 4.40 4	Ţ	10, 11, 12	4	4	4	0	4.10	4	4	0.79	3.35	3	3	0.84
H 1, 2, 3 5 5 5 0 4.08 4 4 0.88 3.20 3 3 0.86 4 4 4 4 4 4 4 4 4 4 4 4 4 3 0.93 6 5 5 5 5 0 4.53 5 5 0.73 4.12 4 5 0.86 7 5 5 5 0 4.56 5 5 0.66 4.08 4 5 0.90 9 5 5 5 0 4.36 5 5 0.77 3.86 4 3 0.96 10 4 4 4 0 4.20 4 5 0.86 3.59 3 3 0.89 11 4 4 4 0 4.19 4 5 0.81 3.49 3 3 0.85 1,	•	13, 14	4	4	4	0	4.37	5	5	0.75	3.59	4	3	0.92
## A	•	Total LA	4.40	4	4	0.50	4.31	4	5	0.78	3.47	3	3	0.88
EXENCE 6 5 5 5 0 4.53 5 5 0.73 4.12 4 5 0.86 7 5 5 5 0 4.56 5 5 0.66 4.08 4 5 0.90 9 5 5 5 0 4.36 5 5 0.77 3.86 4 3 0.96 10 4 4 4 0 4.20 4 5 0.86 3.59 3 3 0.89 11 4 4 4 0 4.19 4 5 0.81 3.49 3 3 0.85 Total HR 4.57 5 5 0.50 4.33 5 5 0.79 3.73 4 3 0.94 2 3,3,4 4 4 4 0 4.17 4 5 0.85 3.26 3 3 0.86 Total SO		1, 2, 3	5	5	5	0	4.08	4	4	0.88	3.20	3	3	0.86
H 7 5 5 5 0 4.56 5 5 0.66 4.08 4 5 0.90 9 5 5 5 0 4.36 5 5 0.77 3.86 4 3 0.96 10 4 4 4 0 4.20 4 5 0.86 3.59 3 3 0.89 11 4 4 4 0 4.19 4 5 0.81 3.49 3 3 0.85 Total HR 4.57 5 5 0.50 4.33 5 5 0.79 3.73 4 3 0.94 1, 9, 10 5 5 5 0 4.13 4 4 0.86 3.40 3 3 0.85 2, 3, 4 4 4 4 0 4.17 4 5 0.85 3.26 3 3 0.86 Total SO 4.33	•	4	4	4	4	0	4.39	5	5	0.72	3.79	4	3	0.93
9 5 5 5 0 4.36 5 5 0.77 3.86 4 3 0.96 10 4 4 4 4 0 4.20 4 5 0.86 3.59 3 3 0.89 11 4 4 4 0 4.19 4 5 0.81 3.49 3 3 0.85 Total HR 4.57 5 5 0.50 4.33 5 5 0.79 3.73 4 3 0.94 1, 9, 10 5 5 5 0 4.13 4 4 0.86 3.40 3 3 0.85 2, 3, 4 4 4 4 0 4.32 5 5 0.79 3.63 4 3 0.86 Total SO 4.33 4 4 0.49 4.21 4 5 0.84 3.43 3 3 0.86 1, 2	•	6	5	5	5	0	4.53		5	0.73	4.12	4	5	0.86
10	2	7	5	5	5	0	4.56	5	5	0.66	4.08	4	5	0.90
Total HR	H	9	5	5	5	0	4.36	5	5	0.77	3.86	4	3	0.96
Total HR		10	4	4	4	0	4.20	4	5	0.86	3.59		3	0.89
1, 9, 10 5 5 5 0 4.13 4 4 0.86 3.40 3 3 0.85 2, 3, 4 4 4 4 4 4 0 4.17 4 5 0.85 3.26 3 3 0.84 8 4 4 4 0 4.32 5 5 0.79 3.63 4 3 0.86 Total SO 4.33 4 4 0.49 4.21 4 5 0.84 3.43 3 3 0.86 1, 2 4 4 4 0 4.44 5 5 0.74 3.93 4 5 0.97 3, 4, 5 4 4 4 0 4.44 5 5 0.71 3.77 4 4 1.03 6, 7 4 4 4 0 4.18 4 5 0.89 3.86 4 5 0.97 8 3 3 3 3 0 4.19 4 5 0.92		11	4	4	4	0	4.19		5	0.81	3.49		3	0.85
Sex 2, 3, 4 4 4 4 4 4 4 4 5 0.85 3.26 3 3 0.84 8 4 4 4 0 4.32 5 5 0.79 3.63 4 3 0.86 Total SO 4.33 4 4 0.49 4.21 4 5 0.84 3.43 3 3 0.86 1, 2 4 4 4 0 4.44 5 5 0.74 3.93 4 5 0.97 3, 4, 5 4 4 4 0 4.44 5 5 0.71 3.77 4 4 1.03 6, 7 4 4 4 0 4.18 4 5 0.89 3.86 4 5 0.97 8 3 3 3 0 4.19 4 5 0.92 3.84 4 4 0.93 9 5 5 5 0 4.28 4 5 0.82 3.70		Total HR	4.57	5	5	0.50	4.33	5	5	0.79	3.73	4	3	0.94
8 4 4 4 0 4.32 5 5 0.79 3.63 4 3 0.86 Total SO 4.33 4 4 0.49 4.21 4 5 0.84 3.43 3 3 0.86 1, 2 4 4 4 0 4.44 5 5 0.74 3.93 4 5 0.97 3, 4, 5 4 4 4 0 4.44 5 5 0.71 3.77 4 4 1.03 6, 7 4 4 4 0 4.18 4 5 0.89 3.86 4 5 0.97 8 3 3 3 0 4.19 4 5 0.92 3.84 4 4 0.92 9 5 5 5 0 4.28 4 5 0.82 3.70 4 4 0.93		1, 9, 10	5	5	5	0	4.13	4	4	0.86	3.40	3	3	0.85
Total SO	SO	2, 3, 4	4	4	4	0	4.17	4	5	0.85	3.26	3	3	0.84
1, 2 4 4 4 4 0 4.44 5 5 0.74 3.93 4 5 0.97 3, 4, 5 4 4 4 0 4.44 5 5 0.71 3.77 4 4 1.03 6, 7 4 4 4 0 4.18 4 5 0.89 3.86 4 5 0.97 8 3 3 3 0 4.19 4 5 0.92 3.84 4 4 0.92 9 5 5 5 0 4.28 4 5 0.82 3.70 4 4 0.93		8	4	4	4	0	4.32	5	5	0.79	3.63	4	3	0.86
3,4,5 4 4 4 0 4.44 5 5 0.71 3.77 4 4 1.03 6,7 4 4 4 0 4.18 4 5 0.89 3.86 4 5 0.97 8 3 3 3 0 4.19 4 5 0.92 3.84 4 4 0.92 9 5 5 5 0 4.28 4 5 0.82 3.70 4 4 0.93		Total SO	4.33	4	4	0.49	4.21	4	5	0.84	3.43	3	3	0.86
E 6,7 4 4 4 0 4.18 4 5 0.89 3.86 4 5 0.97 8 3 3 3 0 4.19 4 5 0.92 3.84 4 4 0.92 9 5 5 5 0 4.28 4 5 0.82 3.70 4 4 0.93	PR	1, 2	4	4	4	0	4.44	5	5	0.74	3.93	4	5	0.97
Example 2 6,7 4 4 4 0 4.18 4 5 0.89 3.86 4 5 0.97 8 3 3 3 0 4.19 4 5 0.92 3.84 4 4 0.92 9 5 5 5 0 4.28 4 5 0.82 3.70 4 4 0.93			4	4	4	0	4.44	5	5	0.71	3.77	4	4	1.03
8 3 3 3 0 4.19 4 5 0.92 3.84 4 4 0.92 9 5 5 5 0 4.28 4 5 0.82 3.70 4 4 0.93			4	4	4	0	4.18	4	5	0.89	3.86	4	5	0.97
9 5 5 5 0 4.28 4 5 0.82 3.70 4 4 0.93			3		3	0	4.19	4	5	0.92	3.84	4	4	0.92
Total PR 4.00 4 4 0.65 4.31 5 5 0.83 3.82 4 4 0.97		9	5	5	5	0	4.28	4	5	0.82	3.70	4	4	0.93
		Total PR	4.00	4	4	0.65	4.31	5	5	0.83	3.82	4	4	0.97
Total items 4.27 4 4 0.56 4.27 4 5 0.83 3.53 3 0.92		Total items	4.27	4	4	0.56	4.27	4	5	0.83	3.53	3	3	0.92

Table 3: Descriptive statistics*

^{*}Avg = Average; Med = Median; S.D. = Standard Deviation.