Ethical Firms and Web Reporting: Empirical Evidence about the Voluntary Adoption of the Italian “Legality Rating”

Fabio Caputo1 & Simone Pizzi1
1 Department of Economic Sciences, Università del Salento, Lecce, Italy

Correspondence: Simone Pizzi, Department of Economic Sciences, Università del Salento, Lecce, 73100, Italy.
E-mail: simone.pizzi@unisalento.it

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Abstract
In 2012, Italy introduced the “Legality Rating” into its legal system. The purpose of this rating is to support the most virtuous companies in terms of access to credit and in the granting of state contributions through a reward system that provides for the possibility of maturing different levels of quality. The growing number of ratings assigned in 2018 suggests that this instrument is gradually gaining notoriety and credibility on the part of entrepreneurs. However, the achievement of the qualifications necessary for the issue of the rating still appears to be a choice made by managers exclusively for utilitarian purposes rather than for reasons connected to a growing sensitivity to CSR issues. The results show that the use of the instrument favors the improvement of the financial economic performance of the companies. However, it emerges that only few companies communicate their good practices on their own websites.

Keywords: legality rating, accountability, reporting, web reporting, disclosure, financial performance

1. Introduction
1.1 Strategic role of CSR in the European scenario
The recent economic scenario is characterized by a high level of competition between companies. Among the various reasons that have contributed to accentuating this operational complexity is the central role played by the development of web technologies that have improved the interaction between customers and suppliers and, indirectly, the globalization of the markets (Hauman and Heimenshof, 2014).

In this regard, it is therefore clear that companies have been induced to identify new operational paradigms to consolidate, or increase, their competitive advantage. From the perspectives of the firms, this need is higher in sectors characterized by “controversial” competitors due the risks of greenwashing by them (Aqueveque et al., 2018). In this sense, the growing attention paid by managers, and by the entire community, regarding the CSR themes plays a significant role due to the different implications connected to the adoption, or not, of this paradigm by the firms. In this sense, for the managers the adoption of ethical behavior represents one of the main strategic drivers to increase the degree of reputation connected to their companies. In fact, the achievement of a higher level of reputation by the firms represents a strategy that is useful to improve their market share and to find new customers (Alwi et al., 2017). Moreover, some of the most recent legislative interventions proposed by the institutions have involved issues related to CSR (Polonsky and Jevons, 2009, Acquier et al., 2017).

In Europe, the adoption of these kinds of ethical strategies was encouraged by the legal provisions produced by the Governments (Steurer et al., 2015; Venturelli and Caputo, 2017). Specifically, the issue of ESG reporting has assumed a strategic role within the regulatory processes that have characterized the recent economic policy directions affecting the European scenario. In this sense, the recent Directive EU / 2014/95 concerning the subject of non-financial reporting is the latest, in order of time, intervention concerning the gradual harmonization of Community legislation regarding the mandatory reporting of businesses regarding these issues. The transposition of this directive is therefore to intervene, limited to specific categories of companies identified for each context by internal legislation, within a community’s economic fabric characterized by distinct levels of sensitivity with respect to these issues in the absence of mandatory regulation (Venturelli et al., 2017; Matuszak and Rozanska, 2017; Dumitru et al., 2017).
1.2 The Italian “Legality rating”

Within this community scenario, however, it should be noted that over the years national legal provisions have been implemented within national laws with the aim of encouraging their use by companies of socially responsible behavior. The recent regulatory measures that have taken place within the Italian legal framework have, in fact, seen the insertion within the legal system of tools aimed at sensitizing the entrepreneurs, and indirectly the stakeholders, to the CSR themes. In this sense, one of the main legislative provisions concerning these issues had as its object the introduction of the legality rating tool. The legality rating, introduced within the Italian legal system through Decree Law 1/2012 and subsequently ratified by Law 62/2012, represents, according to the legislator's vision, an instrument aimed at favoring the diffusion of a business culture more oriented to issues related to legality and ethics. In this sense, the legality rating could be considered a “reputational instrument” for the firms (Ginesti et al., 2018). Specifically, the rating aims to measure through the attribution of a number of "stars" the non-financial performance of the companies. The issue of the rating sees, in fact, a first level of adherence characterized mainly by the absence of penal and administrative convictions by the subjects operating within the company, and two successive levels characterized by typically optional elements, among which, by way of example, the adoption of the 231 model, the production of sustainability reports and the existence of an internal code of ethics. In this sense, with a view to encourage its adoption, the legislator has provided a reward system for companies following self-declaration under the external supervision of the AGCM (Italian Competition Authority). For example, through the Decree n.57 issued by the MEF-MISE on 20 February 2014, specific obligations have been envisaged regarding the relationship with the public administrations and banking institutions. The number of companies that have chosen to adopt the legality rating is constantly growing. In fact, in 2018, 6488 companies were certified, of which 5394 were assigned to the first allocation and 1063 subjected to a renewal procedure. In the same year, the supervisory authority adopted 31 measures to revoke the rating and a suspension (Table 1). From a qualitative point of view, it should be noted that the level of adhesion to the rating by the companies is still medium to low, reflecting how these practices are not yet fully understood by the company.

Table 1. Our elaboration on AGCM data

<table>
<thead>
<tr>
<th>Status</th>
<th>Observation</th>
<th>%Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rating Renewed</td>
<td>1063</td>
<td>16,38%</td>
</tr>
<tr>
<td>Rating Attributed</td>
<td>5394</td>
<td>83,14%</td>
</tr>
<tr>
<td>Rating Revoked or suspended</td>
<td>31</td>
<td>0,48%</td>
</tr>
<tr>
<td>Total</td>
<td>6488</td>
<td>100,00%</td>
</tr>
</tbody>
</table>

1.3 Literature Review

The issue of the legality rating is inserted within the literature field concerning voluntary non-financial disclosure. This line of research is widely dealt with in the literature concerning CSR. In fact, as highlighted by previous meta-analytical studies, it is evident that the voluntary character is predominant within the CSR definitions proposed in the literature of major importance in the economic-business context (Dahlsrud, 2008).

Over the years there have been several studies on the determinants able to positively affect the voluntary adoption by companies of CSR instruments. These studies highlight how the development of CSR has been favored over time by the recognition of strategic value by managers in these activities. The recognition of this strategic value stems from the growing attention by managers to new issues useful for the growth of competitive advantage (Neville et al., 2005; Prado-Lorenzo et al., 2009; Sierra-Garcia et al., 2015; Manes-Rossi et al., 2017) and incentives to support such practices promoted by government agencies (Steurer, 2010; Battaglia et al., 2010). Specifically, the main studies conducted by scholars find their foundation in previous studies that have shown how one of the most important strategic drivers to increase the competitive advantage is represented by the reputational component (Hall, 1993; Kumar and Pansari, 2016). In this regard, the theme of CSR is particularly relevant and, as highlighted in previous studies, represents one of the main means capable of increasing this intangible corporate component (Fombrun, 2005; Hillenbrand and Money, 2007). CSR is, in fact, a means able to differentiate the company from competitors through the reporting to the market of its non-financial activities (Lys et al., 2015). This process, defined as stakeholder engagement, aims to involve the main internal and external stakeholders in the organizational and decision-making processes (Freeman, 2010). Empirical results show that this phenomenon is positively correlated with the size of the companies involved, due to the greater number of stakeholders involved in internal and external processes (Chan et al., 2014). Furthermore, companies...
engaged in these activities can often benefit indirectly from greater attention from the media regarding their activities, thus generating as a positive externality an effective increase in popularity, and therefore reputation, among stakeholders (Cahan et al., 2015).

Studies supporting the positive relationship between CSR and business performance are based on the theory defined Resource Based View (Torugsa et al., 2012; Wang & Sarkis, 2017; Platonova et al., 2018; Hanas et al., 2018). Specifically, this theory finds application in the field of CSR studies according to two different perspectives of analysis (Brando and Rodrigues, 2006). According to the "internal" perspective, through the use of specific company resources in these activities, companies can improve their competitive advantage through the sharing of knowledge and the progressive process of mutual learning among the parties involved (Venturelli et al., 2018). The development of new skills within the organization entails the possibility of redefining company strategies, according to principles aimed at improving the effectiveness and efficiency of operations conducted (Orlitzy et al., 2003). According to the "external" perspective, the competitive advantage deriving from the adoption of socially responsible practices is closely linked to the company's reputation. Improving corporate reputation is one of the strategic levers of the company that cannot be directly controlled by management. Considering this evidence, literature shows that CSR indirectly implies better financial performance due to its natural ability to support the generation of value over time (Siltaija, 2006). However, it should be noted, in this regard, that a part of literature, albeit in a minor way, demonstrates the absence of direct links between the two phenomena (Barnett and Salomon, 2012).

**Hp1:** Companies with a high CSR rating improve their economic, financial and equity performance.

The relevance of companies' web reporting activities has been favored by the growing use by the stakeholder of new form of digital platforms like web sites, Facebook, LinkedIn and Twitter (Kent and Taylor, 2016). In particular, this evolution regards CSR communications (Etter, 2013). It should be noted that web reporting has undergone significant changes due to the increase in users, which has resulted in an automatic increase in interactions between customers and companies (Capriotti, 2011). This change has led, from a communicative point of view, to the transition from Web 1.0 to Web 2.0. The advent of web 2.0 has deeply affected the strategies connected to the communication of non-financial activities promoted by the companies. This change therefore involves the transformation of customers due the possibility to compare firms’ activities in real time with the use of digital instruments. Specifically, through the creation of communities or opinion groups, the consumer goes from user to subject who uses and reviews the product or service purchased (Ihlen et al., 2011). Web reporting is even relevant for investors who have the possibility to find out more information about firms (Saleh and Roberts, 2017). However, despite the great attention paid by scientific literature (Brennan and Merckl-Davies, 2018), previous empirical studies show that companies still tend not to use this communication tool (Cortado and Chalmeda, 2016). In fact, the absence of specific regulations about these themes could represent an obstacle to the full achievement of this target. According to previous empirical studies, firms who produced sustainability or integrated reports disclosed only a few parts of the non-financial information achieved on their website throughout the year (Alvarez-Gonzalez et al., 2018; Bosetti, 2018).

**Hp2:** Companies with a high CSR rating recognize the role of Web 2.0 in their CSR communication.

### 1.4 Our Purpose

In accordance with previous literature (Doni et al., 2016; Ginesti et al., 2018), the purpose of this article is to evaluate the effective impact of the legality rating on Italian companies in terms of economic, financial and equity performance. Specifically, the present research has as object of study the most virtuous companies in terms of legality rating, ie those with 3 stars. In this regard, the research methodology is structured in two different levels of analysis. The first type of statistical analysis is descriptive and aims to identify, through a content analysis conducted on the websites of the companies being analyzed, the main elements adopted by Italian companies to improve their legality rating. In this regard, a legality score will be provided, to highlight how, within the same category, it is possible to identify a different level of virtuosity on the part of companies.

The second type of analysis involves the use of a panel-type analysis to evaluate, through econometric techniques, the impact of the introduction of the legality rating on Italian companies in terms of economic, financial and equity performance.

### 2. Method

The sample under investigation consists of 148 companies which, at the date of the survey, are in possession of a legality rating equal to "***". The sample was extracted from the official database provided by AGCM. To consider a sample characterized by a high degree of homogeneity within the surveys, a cluster of 148 companies, which provided data on their legality rating within their own site, was extracted from the population. Our cluster
represents 58.04% of the companies with a rating equal to ***. This methodological approach, although in the possession of critical physiological issues, respects what is outlined in some of the most authoritative statistical studies on the social research methodology (Barrow, 2009).

The first part of the research concerns the evaluation of the effects connected to the attribution of the legality rating on the economic, financial and equity performance of the companies. According to similar previous studies, this analysis was carried out through a panel data type regression analysis. The panel investigated consists of 740 observations concerning the 148 companies during the period from 2012 to 2016. To evaluate which is the most precise panel data model between fixed or random effect, we used the Hausman test. This test evaluates the significance level between estimators, in the case of fixed effect or random effect models (Hausman, 1978).

To assess the impact of the legality rating on the different aspects related to company performance we proceeded to define three different models of analysis. According to previous studies about the impact of CSR on a firm’s performance, we used the most used accounting-based measures to evaluate the relation between the two aspects (Lu et al., 2014; Wang et al., 2016). Specifically, the three models envisage, as dependent variables, respectively the natural logarithm of the EBIDTA for the reference year (Awan and Saeed, 2015; Boesso et al., 2015), the DEBT / EQUITY ratio (Benlemlih, 2017) and the LIQUIDITY RATIO (Kim and Im, 2017; Yilmaz, 2016). To allow for the comparison of the three models, it was decided to identify common independent variables with the use of AIDA database. Specifically, we considered in our models: leverage (LEV), return on asset (ROA) and number of employees (SIZE). Finally, to evaluate the impact of the legality rating on our dependent variables, we use the dummy variable (LEG).

The structural forms associated with the following equations are:

\[
\text{MODEL1: } \ln(\text{EBIDTA}_{i,j}) = \text{LEG}_{i,j} + \text{LEV}_{i,j} + \text{ROA}_{i,j} + \text{SIZE}_{i,j} + \epsilon_{i,j} \\
\text{MODEL2: } \text{DE}_{i,j} = \text{LEG}_{i,j} + \text{LEV}_{i,j} + \text{ROA}_{i,j} + \text{SIZE}_{i,j} + \epsilon_{i,j} \\
\text{MODEL3: } \text{LR}_{i,j} = \text{LEG}_{i,j} + \text{LEV}_{i,j} + \text{ROA}_{i,j} + \text{SIZE}_{i,j} + \epsilon_{i,j}
\]

The descriptive statistics associated with the variables are as follows:

<table>
<thead>
<tr>
<th>Variables</th>
<th>Mean</th>
<th>Median</th>
<th>St.Dev</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>EBIDTA (mil.)</td>
<td>11.5</td>
<td>34.4</td>
<td>76.9</td>
<td>66.7</td>
<td>1.340</td>
</tr>
<tr>
<td>DE</td>
<td>1.42</td>
<td>0.665</td>
<td>2.92</td>
<td>-2.13</td>
<td>50.5</td>
</tr>
<tr>
<td>LR</td>
<td>1.38</td>
<td>1.15</td>
<td>0.918</td>
<td>0.05</td>
<td>7.67</td>
</tr>
<tr>
<td>SIZE</td>
<td>10.3</td>
<td>10.1</td>
<td>2.03</td>
<td>2.23</td>
<td>18.1</td>
</tr>
<tr>
<td>ROA</td>
<td>4.43</td>
<td>3.54</td>
<td>6.07</td>
<td>-31.9</td>
<td>36.9</td>
</tr>
<tr>
<td>LEV</td>
<td>7.54</td>
<td>4</td>
<td>13.3</td>
<td>-18.4</td>
<td>174</td>
</tr>
<tr>
<td>LEG</td>
<td>0.108</td>
<td>0</td>
<td>0.311</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

The second part of the research is of a statistical-descriptive nature, and aims to assess how, in the "***" category, the web communication is not heterogeneous in terms of non-financial information. Specifically, through an exploratory analysis of the websites of the companies belonging to the sample, the presence of the following elements was evaluated through a score. For our analysis, we considered only the voluntary items indicated by law to achieve the highest level of legality rating.
Table 3. Variables description

<table>
<thead>
<tr>
<th>Code</th>
<th>Variables</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>231</td>
<td>Model</td>
<td>0= absent; 1= present;</td>
</tr>
<tr>
<td>ACS</td>
<td>Anticorruption System</td>
<td>0= absent; 1= present;</td>
</tr>
<tr>
<td>COE</td>
<td>Code of ethics</td>
<td>0= absent; 1= present;</td>
</tr>
<tr>
<td>TOR</td>
<td>Type of Report</td>
<td>0= absent; 1= Sustainability report; 2= Annual report+Sustainability Report; 3= Integrated Report;</td>
</tr>
<tr>
<td>SS</td>
<td>Standard setter</td>
<td>0= absent; 1= use of one standard setter; 2= use of two or more standard setter;</td>
</tr>
<tr>
<td>ASS</td>
<td>Assurance</td>
<td>0= absent; 1= present;</td>
</tr>
<tr>
<td>WEB</td>
<td>Web Reporting</td>
<td>0= absent; 1= present;</td>
</tr>
</tbody>
</table>

Following this activity, a "Legality Score" was measured by calculating a weighted average to assess, through a scale from 0 to 100, the quality level of the disclosure reported by the companies. However, it should be noted that the investigation does not concern the actual verification of the possession of these requirements, but rather the management's ability to communicate to the stakeholders these aspects concerning the company's activities.

\[
\text{Legality Score} = \frac{\text{Mean}(231, ACS, COE, TOR, SS, ASS, WEB)}{100} \times 100
\]  

3. Results

The first part of our analysis evaluated the relationship between the introduction of the legality rating and company performance in terms of improvement of the economic, financial and equity indicators. The goodness of the three models was evaluated with the R² index. Also, the results of Hausman test revealed that unobserved individual effects are correlated with the regressors. This indicates that the fixed and between estimates differ from one another. Therefore, this study used the fixed effect model.

The analysis shows how the introduction of the legality rating corresponds to a general improvement in company performance according to the three different perspectives of the survey. In fact, it shows how the LEG variable appears to be statistically significant and in possession of coefficients capable of positively impacting the company's equilibrium.

Regarding economic performance, EBIDTA appears to be positively influenced by the LEG variable, similar to the ROA and SIZE control variables. In fact, the model shows that it is associated with a coefficient equal to 0.991 against the other two variables that have coefficients equal to 0.127 and 1.155 respectively.

The company's level of indebtedness, expressed through the DEBT / EQUITY index, is also influenced by the introduction of the legality rating. The nature of the index also makes the impact of the LEV variable on it discounted. However, the analysis of the beta suggests how the positive impact connected to the adoption of the LEG is higher than the negative effects connected to the LEV. This report (0.462 > 0.176) therefore suggests how the instrument affects, at various levels, the company's ability to cope with its debts in a timelier manner. Literature shows that this effect derives not only from the best conditions of access to credit provided for by the Italian legislator, but also from the greater competitive advantage of companies stemming from the adoption of socially responsible strategies (McWilliams and Siegel, 2011).
Finally, the liquidity ratio is improved following the adoption of the legality rating. As previously stated, this effect is connected to the legislator’s choice to favor and encourage companies to use the instrument through the obligation for banks to provide more advantageous conditions in terms of credit disbursement.

<table>
<thead>
<tr>
<th>EBITDA</th>
<th>DEBT/EQUITY</th>
<th>LIQUIDITY RATIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coeff.</td>
<td>Sig.</td>
<td>Coeff.</td>
</tr>
<tr>
<td>const</td>
<td>-6.321</td>
<td>0.934</td>
</tr>
<tr>
<td>LEG</td>
<td>0.991</td>
<td>***</td>
</tr>
<tr>
<td>LEV</td>
<td>-0.022</td>
<td>***</td>
</tr>
<tr>
<td>ROA</td>
<td>0.127</td>
<td>***</td>
</tr>
<tr>
<td>SIZE</td>
<td>1.155</td>
<td>***</td>
</tr>
<tr>
<td>R²</td>
<td>0.856</td>
<td>0.824</td>
</tr>
<tr>
<td>Hausman Test</td>
<td>4.294*</td>
<td>11.526**</td>
</tr>
<tr>
<td>Type of Panel</td>
<td>Fixed Effect</td>
<td>Fixed Effect</td>
</tr>
<tr>
<td>Number of obs</td>
<td>627</td>
<td>690</td>
</tr>
</tbody>
</table>

*p-value is significant at <0.1; **p-value is significant at <0.05; ***p-value is significant at <0.001

The analysis of the websites of the companies surveyed shows that, against a legality rating of ***, the level of information provided by the same is heterogeneous in the sample. This discrepancy derives from the additive nature of the elements under investigation because, as envisaged by the Italian legislator, the achievement of this quality level can be pursued through the possession, or use, of different types of instruments. Furthermore, the greater relevance to certain requisites recognized by the legislator gives management greater attention to the pursuit of these activities. By way of example, the role recognized in the 231 model within the Italian legal framework is highlighted, which, in addition to be an element useful for achieving the level of legality rating ***, represents an instrument able to mitigate the risk of compliance related to business activity. In fact, as part of the analysis, it emerges that the worst results are attributable to the dynamics relating to the preparation and subsequent validation of non-financial disclosures, which tend to represent an activity characterized by a high degree of complexity and are a deterrent to use by SMEs (Kechiche and Soparnot, 2012). In addition, the low value attributed to the aspects related to web reporting, which include within them several types of activities conducted via web, shows how the Italian context still has cultural limits related to the online dissemination of non-financial performance. This result therefore shows how the role assigned by management to these elements is mainly to support the pursuit of certification rather than to communicate the good practices implemented in the exercise of the business activity to the stakeholders.

Table 4. Descriptive statistics about the content of the web site

<table>
<thead>
<tr>
<th>Unit</th>
<th>231</th>
<th>COE</th>
<th>ACS</th>
<th>TOR</th>
<th>SS</th>
<th>ASS</th>
<th>WEB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observations</td>
<td>151</td>
<td>78</td>
<td>110</td>
<td>51</td>
<td>58</td>
<td>41</td>
<td>13</td>
</tr>
<tr>
<td>Observations %</td>
<td>100%</td>
<td>51,66%</td>
<td>72,85%</td>
<td>33,78%</td>
<td>38,41%</td>
<td>27,15%</td>
<td>8,61%</td>
</tr>
</tbody>
</table>

This evidence is supported in the quantitative analysis related to the measurement of the "Legality Score". The average value of this indicator, equal to 36.63%, suggests that Italian companies tend to underestimate the importance of the implemented activities on the web. Moreover, although in the presence of a median value below average, the minimum value of 0% further supports this thesis, highlighting how, in a context in which companies formally present particularly virtuous systems, there are cases of total absence of web communication of the results achieved. Finally, the value of the average standard deviation shows that this scenario appears to be widespread throughout the sample.

Table 5. Descriptive statistics about "Legality Score"

<table>
<thead>
<tr>
<th>Legality Score</th>
<th>Mean</th>
<th>Median</th>
<th>Max</th>
<th>Min</th>
<th>Dev.St.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>36.63%</td>
<td>31.25%</td>
<td>87.50%</td>
<td>0.00%</td>
<td>5.399</td>
</tr>
</tbody>
</table>
4. Discussion

Recent Community and national policies have contributed positively to the introduction, within the European and Italian context, of instruments aimed at encouraging non-financial performance communication between companies and stakeholders.

Among the main instruments introduced by the Italian legislator, the legality rating represents one of the most important instruments to support the voluntary adoption of social responsibility practices by the firms. The relevance of the instruments is confirmed by the satisfaction of the Hypothesis 1. In fact, the Panel analysis shows how the introduction of ratings by companies generates, on average, the best results in terms of economic, financial and equity performance. This result confirms what is stated in the specific literature concerning other ethical standards. However, the reject of the Hypothesis 2 denotes how the companies presented different average levels of disclosure on their websites. This result suggests how the potentially benefits connecting to the adoption of social responsibility practices by the firms is not fully achieved.

As highlighted in literature, such "legal" effects should not be forgotten to combine the indirect effects and the greater competitive advantage deriving from the adoption of socially responsible policies within the strategic planning processes adopted by companies. From the interpretation of the two analyses, however, it emerges that the legality rating is still perceived by managers and entrepreneurs as a tool closely linked to obtaining the advantages envisaged by the legislator rather than as an instrument capable of communicating to the stakeholders their own virtuous practices. As highlighted by the above results, the legality rating is an effective driver in the context of the different dynamics concerning the financial and economic situation of companies. However, the analysis of company websites shows that, in a context in which some companies did not communicate their information, the level of information provided does not appear to be homogeneous within the sample. In fact, in the segment of the most virtuous companies in possession of the "***", the quantity of information provided by them is characterized by a standard deviation of 5.399.

The managerial implications connected to this study lie in the possibility for companies to be able to increase their performance by obtaining the legality rating. Furthermore, in order to increase these performances, the study shows that Italian companies still present a low level of awareness regarding the opportunity to use digital tools as a vehicle for direct interaction with stakeholders.

The limitations related to this study derive from the lack of consideration in the sample, for reasons of opportunity, of companies with a rating lower than ***. Future studies may be addressed through the extension of the study to these other types of social structures to assess how the different rating levels affect company performance.

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