Corporate Board Diversity and Sustainability Reporting: A Study of Selected Listed Manufacturing Firms in Nigeria

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Abstract: The objective of the study is to ascertain the influence of corporate board diversity on sustainability reporting on a sample of quoted manufacturing firms in Nigeria. The study adopts a panel research design. The population of the study comprised quoted manufacturing companies on the Nigerian Stock Exchange. This was restricted to companies classified under conglomerates, consumer goods, and industrial goods sector. The study used secondary data, extracted from the annual reports of the studied manufacturing companies. Fixed effects panel regression analysis was used to test the hypotheses. The dependent variable sustainability reporting was measured using an Economic, Social, and Governance (ESG) index, the independent variables were board member nationality, proportion of women directors, proportion of non-executive directors, and multiple directorships. The results show no significant positive influence of board member nationality, while proportion of women directors, proportion of non-executive directors, and multiple directorships were significant. The study recommends among others, the adoption of NSE Sustainability Disclosure Guidelines for a unified integrated reporting framework for Nigerian firms, secondly, a heterogeneous board composition, which can leverage on the diverse set of skills of board members.

Keywords: board diversity, sustainability reporting, women directors, corporate social responsibility.

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Introduction

It is the responsibility of a company’s board of directors to “oversee the actions and decisions” of management (Rupley et al., 2012). They are the most influential decision-making unit of a corporation (Leung, 2015). There responsibilities span from making key financial and strategic decisions, such as approving changes in capital structure/mergers and acquisitions, to the difficult task of choosing the company’s top executive leadership (Ferreira, 2011). The literature identifies four key functions of boards: monitoring and controlling managers,
providing information and counsel to managers, monitoring compliance with applicable laws and regulations, and linking the corporation to the external environment (Mallin, 2004; Monks & Minow, 2004).

However, ‘given the diversity of expertise, information, and availability that is needed to understand and govern today’s complex businesses, it is unrealistic to expect an individual director to be knowledgeable and informed about all phases of business’ (Conger & Lawler III, 2001). Scholars have therefore suggested for board diversity as one of the ways to enhance corporate governance (Leung, 2015). Some scholars refer to board diversity as a demographic phenomenon entailing age, gender, and ethnicity, while others refer to board diversity as a structural phenomenon comprising CEO duality, board independence, and director ownership (Hoang et al., 2016).

Diversity due to differences in gender, ethnicity or cultural background (Arfken, Bellar, & Helms, 2004) leads to a better understanding of the company’s market position, creativity and innovation as well as more effective problem solving (Carter et al., 2003). According to Conger & Lawler III (2001) “the best boards are composed of individuals with different skills, knowledge, information, power, and time to contribute”. Thus, board diversity represents a significant corporate governance (CG) mechanism (Eulerich et al., 2014).

Increased awareness of social, environmental and governance issues has greatly transformed the way business as conducted (Kolk & van Tulder, 2010; Seuring & Müller, 2008). Corporations are increasingly pressured to report on additional issues, provided in the form of complementary reports on issues, such as governance, social responsibility and intellectual capital (Rodríguez-Ariza et al., 2012). However, these documents were mostly drafted individually, and so the information provided might overlap; moreover, there could be a lack of coherence in the contents of the various reports generated, which would hamper the decision-making process (Rodríguez-Ariza et al., 2012). Integrated reporting developed out of the desire to integrate all information into a single document, which provides a clear and concise statement, of the organization operations (IIRC, 2011); (Ghani et al., 2018). It is the convergence of reporting architecture (Okaro & Okofo, 2017), bordering on environmental, social and governance (ESG) issues (Velte, 2017).

Consequently, studies have shown a positive correlation between board diversity and sustainability reporting and performance (Michelon & Parbonetti, 2012; Post et al., 2011; Rao et al., 2012; Rupley et al., 2012; Webb, 2004). In Nigeria, despite the commitment of the government to gender equality, the practical situation is characterized with sexual stereotyping of social roles, discriminatory traditions and cultural prejudices (Lincoln & Adedoyin, 2012). This could also be attributed to the national cultural perspective of the country, which places ‘men as the leaders of the society’ is one of crucial factor which limits female participation in top leadership positions (Şener & Karaye, 2014). Nigeria is a highly patriarchal society with men dominating, thus women are mostly under-represented in managerial role, because of the socio-cultural traditions which inhibit them (Lincoln & Adedoyin, 2012). With a greater proportion of female directors, a company would most likely appear ethical and demonstrate good corporate citizenship (Landry et al., 2016). Foreign directors are also known to bring along beneficial attributes to the company, by bringing along their wealth of experience to corporate board rooms (Masulis et al., 2012). Ujunwa et al. (2012) show that board nationality and ethnicity were positive in predicting firm performance among listed firms in Nigeria.

With the growing importance of the sustainability agenda on the business roundtable, with studies confirming that capital markets incorporate environmental, social, and governance data in business valuation models (Eccles et al., 2011; Ioannou & Serafeim, 2015). The Nigerian Stock Exchange (NSE) commenced a phased project to integrate sustainability reporting for its listed companies. This resulted in the production of the Sustainability Disclosure Guidelines (SDG), which cover environmental, social and governance (ESG) issues. Presently, 15 Stock Exchanges provide sustainability guidance in their market, 23 has committed to institute (of which the NSE is part of) while 41 have no guidance. However, the state of corporate governance in the country is still at its rudimentary phase (Nwannebiuwe & Ike, 2014).
Despite the influence of board diversity on financial performance and reporting, few studies have examined whether this is also applicable in non-financial performance and reporting (Rao & Tilt, 2016a). Prior studies have established that internal governance mechanism, which involves the system of rules, practices and processes by which a company is directed and controlled (Ong & Djajadikerta, 2017), plays a vital role in sustainability reporting and performance (Lau et al., 2016; Garcia-Toreaa et al., 2016; Walls et al., 2012; Kolk, 2008; Gibson & O’Donovan, 2007). Studies have investigated the impact of board composition/specific board attributes (e.g., gender diversity) on corporate social responsibility/sustainability and firm performance in developed economies (Jain & Jamali, 2016; Landry et al., 2016; Malik, 2015; Setó-Pamies, 2015; Ferrero-Ferrero et al., 2015; Sharif & Rashid, 2014; Zhang et al., 2013; Post et al., 2011; Bear et al., 2010; Bernardi et al., 2006; Sharma & Henriques, 2005; Carter et al., 2003). However, there is little empirical evidence on the influence of women on the board (Ben-Amar et al., 2017; Leung, 2015; Rodríguez-Ariza et al., 2012) and their role in facilitating the production of integrated sustainability reports in developing countries (Yasser et al., 2017).

Controversy exists on the relationship between the independence of the board and corporate social responsibility (Rodríguez-Ariza et al., 2012). Some studies have shown a positive relationship between non-executive directors and corporate social responsibility (Prado-Lorenzo et al., 2009; Cheng & Courtenay, 2006), others report a negative relationship (Prado-Lorenzo & Garcia-Sanchez, 2010; Haniffa & Cooke, 2005) or none at all (Sánchez et al., 2011). The literature also documents mixed findings on the subject of foreign directorship.

In addition, few studies have addressed the issue of multiple directorships in the context sustainability reporting and performance (Ong & Djajadikerta, 2017). This study therefore seeks to fill this gap by investigating the influence of corporate board diversity on integrated sustainability reporting of selected manufacturing firms in Nigeria. Based on the above research problem, the main objective of this study is to ascertain the influence of corporate board diversity on sustainability reporting of selected quoted manufacturing firms in Nigeria. The specific objectives of the study are as follows: 1) To ascertain the influence of board member nationality on economic, social and governance disclosure. 2) To examine the influence of proportion of women directors on economic, social and governance disclosure. 3) To determine the influence of proportion non-executive directors on economic, social and governance disclosure. 4) To ascertain the influence of multiple directorships on economic, social and governance disclosure.

Methods

The study adopts the panel research design within the domain of longitudinal research design. Panel research designs are particularly strong in dealing with the threats of unit heterogeneity and temporal instability (Halaby, 2003; Allison, 1994; Hsiao, 2003; Maddala, 1987) and are considered suitable for cause and effect studies.

The population of the study comprises manufacturing companies listed on the Nigerian Stock Exchange (NSE). The companies are classified under 11 sectors, such as: Agriculture; Conglomerates; Construction/Real Estate; Consumer Goods; Financial Services; Healthcare; Information & Communications Technology (ICT); Industrial Goods; Natural Resources; Oil & Gas; and, Services (NSE, 2017). However, the scope of the study limited the focus to 3 sectors (Conglomerates, Consumer goods, and, Industrial Goods). The studied companies are listed (Table 1).

The Hausman test was conducted to determine whether the Fixed Effects or Random Effects regression is to be used. It tests the null hypothesis that the coefficients estimated by the random effects estimator are the same as the coefficients estimated by the consistent fixed effects estimator (Hajek et al., 2015). The study used the Fixed Effects (FE) regression. FE regression is a method that is especially useful in the context of causal inference (Gangl, 2010). While standard regression models provide biased estimates of causal effects if there
are unobserved confounders, FE regression is a method that can (if certain assumptions are valid) provide unbiased estimates in this situation (Brüderl & Ludwig, 2015).

Table 1 List of Selected Manufacturing Companies

| No. | Company                      | No. | Company                     |
|-----|------------------------------|-----|----------------------------|
| 1   | A.G. Leventis Nigeria Plc.   | 23  | Nigerian Enamelware Plc.    |
| 2   | Chellarams Plc.              | 24  | Vitafoam Nigeria Plc.       |
| 3   | John Holt Plc.               | 25  | P.Z. Cussons Nigeria Plc.   |
| 4   | SCOA Nigeria Plc.            | 26  | Unilever Nigeria Plc.       |
| 5   | Transnational Corporation Plc| 27  | Mcnichols Plc               |
| 6   | UACN Plc.                    | 28  | Nascon Allied Industries Plc|
| 7   | DN Tyre & Rubber Plc.        | 29  | African Paints (Nigeria) Plc|
| 8   | Champion Breweries Plc       | 30  | Austin Laz & Company Plc    |
| 9   | Golden Guinea Breweries Plc. | 31  | Berger Paints Plc.          |
| 10  | Guinness Nigeria Plc.        | 32  | Beta Glass Plc.             |
| 11  | International Breweries Plc. | 33  | Cap Plc.                    |
| 12  | Nigerian Breweries Plc.      | 34  | Cement Co. of North. Nig. Plc|
| 13  | 7-up Bottling Company Plc.   | 35  | Cutix Plc.                  |
| 14  | Dangote Flour Mills Plc.     | 36  | Dangote Cement Plc.         |
| 15  | Dangote Sugar Refinery Plc.  | 37  | First Aluminium Nigeria Plc.|
| 16  | Flour Mills Nigeria Plc.     | 38  | Greif Nigeria Plc.          |
| 17  | Honeywell Flour Mill Plc.    | 39  | Lafarge Africa Plc.         |
| 18  | Multi-trex Integrated Plc.   | 40  | Meyer Plc                   |
| 19  | N. Nigeria Flour Mills Plc.  | 41  | Paints and Coatings Manufactures Plc.|
| 20  | Union Dicon Salt Plc.        | 42  | Portland Paints & Products Nigeria Plc.|
| 21  | Cadbury Nigeria Plc.         | 43  | Premier Paints Plc.         |
| 22  | Nestle Nigeria Plc.          |     |                             |

Source: Nigerian Stock Exchange Website

FE estimation builds on the error components model,

\[ y_{it} = x_{it}\beta + \alpha_i + \epsilon_{it} \]
Where, $y_{it}$ denotes the observed outcome of firm $i$ at time $t$, $x_{it}$ is the $(1 \times K)$ vector of covariates of this firm measured contemporaneously, and $\beta$ is the corresponding $(K \times 1)$ vector of parameters to be estimated. The error term of this model is split into two components. The $\alpha_i$ is stable firm specific characteristics which are often unobserved, but also are very often related to the covariates. Hence, the $\alpha_i$ are unobserved effects capturing time-constant firm heterogeneity. The second component $\varepsilon_{it}$ is an idiosyncratic error that varies across firms and over time. The intercept $\alpha$ that is standard in regression models is dropped, due to collinearity with the firm-specific errors $\alpha_i$.

$$ESG_{(i,t)} = \alpha + BMN_{(i,t)} + PWD_{(i,t)} + PNED_{(i,t)} + MD_{(i,t)} + Size_{(i,t)} + \mu \ldots (1)$$

The level of significance was set at $p < 0.05$.

| Proxy Variable Description | Description |
|----------------------------|-------------|
| Environmental Social Governance (ESG) | Dependent variable | Analysed using content analysis. Prior studies have categorised disclosures into individual aspects (Cho, Michelon, Patten, & Roberts, 2015); (Guthrie & Parker, 1990), the categories considered in the study are: economic, social, and governance. The items are scored one or zero based on the presence or absence of a disclosure item. |
| Board Member Nationality (BMN) | Independent variable | This is proxied as the number of foreign directors sitting on the board divided by the total number of directors. |
| Percentage of Women Directors (PWD) | Independent variable | This is proxied as the number of female directors sitting on the board divided by the total number of directors. |
| Percentage of Non-Executive Directors (PNED) | Independent variable | This is proxied as the number of non-executive directors sitting on the board divided by the total number of directors. |
| Multiple Directorship (MD) | Independent variable | This is proxied as the number of directors serving on more than one board to the total number of directors on the board (Rupley et al., 2012). |
| Size | Control variable | This was proxied using the total assets of the firm. Prior studies have shown the link between firm size and corporate social responsibility (Habbash, 2016); (Khan, 2010), because larger firms are more salient, thus, tend to attract more attention from consumers, the media and the general public, which may compel them to look good (Hyun, Yang, Jung, & Hong, 2016). |

**Results and Discussion**

The Table 3 presents the univariate properties of the data, specifically, mean, median, maximum, minimum, and standard deviation. The average of board member nationality is 0.215, which shows that approximately 22% of the directors on the board of manufacturing firms are foreigners. The average proportion of non-executive directors is 0.509, which shows that approximately 51% of the directors on the board of manufacturing firms are non-executive directors. The average proportion of women directors is 0.090, which shows that less than 10% of the directors on the board of manufacturing firms are females. The average value of multiple directorships is 0.349, which shows that on the approximate 35% of the directors of the studied firms sit one or more other boards of the manufacturing firms.
The correlation matrix of the variables shows a positive correlation between PWD, PNED and MD with Size, but a negative correlation of BMN with Size. PWD is positively correlated with PNED, BMN and MD. PNED is positively correlated with BMN and MD. BMN is negatively correlated with MD. None of the variables showed a correlation coefficient greater than 0.50 among the independent variables and control variable.

### Table 3 Descriptive Statistics

|       | BMN   | PNED  | PWD    | MD     | ESG    | Size               |
|-------|-------|-------|--------|--------|--------|--------------------|
| Mean  | 0.215194 | 0.509607 | 0.090914 | 0.349919 | 1.72 | 97,980,186,062.50 |
| Median| 0.154762 | 0.625000 | 0.000000 | 0.363636 | 1.00 | 18,500,000,000.00 |
| Maximum| 0.875000 | 0.916667 | 0.625000 | 0.714286 | 3.00 | 2,104,360,539,000.00 |
| Minimum| 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.00 | -42,217,000.00 |
| Std. Dev. | 0.236180 | 0.270273 | 0.131317 | 0.189200 | 1.14 | 245,000,000,000.00 |
| Skewness | 0.832358 | -0.787563 | 1.994306 | -0.403199 | 0.03 | 5.58 |
| Kurtosis | 2.687755 | 2.398880 | 7.752252 | 2.654677 | 1.41 | 39.63 |
| Sum | 51.64646 | 122.3057 | 21.81936 | 83.98059 | 412.00 | 23,500,000,000,000.00 |
| Sum Sq. Dev. | 13.33171 | 17.45835 | 4.121376 | 8.555370 | 312.73 | 14,300,000,000,000,000,000,000.00 |

### Table 4 Correlation Matrix of Variables

|       | PWD    | PNED   | BMN    | MD     | Size    |
|-------|--------|--------|--------|--------|---------|
| PWD   | 1.0000 | 0.1243 | 0.2415 | 0.0792 | 0.1503  |
| PNED  | 0.1243 | 1.0000 | 0.3423 | 0.0491 | PWD     |
| BMN   | 0.2415 | 0.3423 | 1.0000 | -0.1252 | PNED   |
| MD    | 0.0792 | 0.0491 | -0.1252 | 1.0000 | BMN     |
| Size  | 0.1503 | 0.1503 | 0.1503 | 0.1503 | 1.0000 |

The FE regression results are shown in the Table 5. FE regression was conducted to test if board diversity significantly predicted economic, social and governance disclosure. The results of the FE regression indicated the three predictors explained 55.3% of the variance ($R^2 = 0.553$, $F (6, 233) = 4.12$, p-value < 0.05).

The first hypothesis checked for a significant positive influence of board member nationality on economic, social and governance disclosure. From Table 5, the coefficient of board member nationality is negative and not significant (p-value 0.8584 > 0.05). The null hypothesis is accepted and the alternate rejected; thus, ‘there is no significant positive influence of board member nationality on economic, social and governance disclosure’.

The second hypothesis checked for a significant positive influence of proportion of women directors on economic, social and governance disclosure. From Table 5, the coefficient of proportion of women directors is positive and significant (p-value 0.0025 < 0.05). The null hypothesis is rejected and the alternate accepted; thus,
there is a significant positive influence of proportion of women directors on economic, social and governance disclosure'.

The third hypothesis checked for a significant positive influence of proportion of non-executive directors on economic, social and governance disclosure. From Table 5, the coefficient of proportion of non-executive directors is positive and significant (p-value 0.0031 < 0.05). The null hypothesis is rejected and the alternate accepted; thus, ‘there is a significant positive influence of proportion of non-executive directors on economic, social and governance disclosure’.

The fourth hypothesis checked for a significant positive influence of multiple directorships on economic, social and governance disclosure. From Table 5, the coefficient of multiple directorships is positive and significant (p-value 0.0044 < 0.05). The null hypothesis is rejected and the alternate accepted; thus, ‘there is a significant positive influence of multiple directorships on economic, social and governance disclosure’.

| Coefficient | Std. Error | t     | p-value |
|-------------|------------|-------|---------|
| Const       | 1.6399     | 0.208865 | 7.8515 | 0.000   |
| PWD         | 1.850713   | 0.606945 | 3.0492 | 0.0025*** |
| PNED        | 1.092776   | 0.291918 | 3.3178 | 0.0031*** |
| BMN         | -0.062037  | 0.347488 | -0.1785 | 0.8584 |
| MD          | 1.329871   | 0.460081 | 3.7170 | 0.0044*** |
| Size        | -1.01982e-013 | 3.15035e-013 | -0.3237 | 0.7464 |
| R-squared   | 0.590457   |       |         |
| F (6, 233)  | 4.120498   |       |         |
| Durbin-Watson | 1.579213   |       |         |
| Adjusted R-squared | 0.552979 |       |         |
| P-value (F) | 0.043803   |       |         |

Global studies have shown support for board diversity and sustainability reporting (Fernandez-Feijoo et al., 2014; Frias-Aceituno et al., 2013). The study finds no significant positive influence of board member nationality on economic, social and governance disclosure. This is consistent with the study by Huijsmans (2017) on a sample of non-financial firms from Germany, France, Netherlands, Sweden, Switzerland and the UK, finds no evidence of a significant relationship between board-level national culture and CSP of firms and no significant relationship between board nationality diversity and CSP. But, Post et al. (2011) found that boards with a higher proportion of Western European directors were more likely to implement environmental governance structures or processes. The study by Haniffa & Cooke (2002) in Malaysia which was extended in 2005, indicated found a significant positive correlation between CSR disclosure and foreign ownership. The inclusion of women in boards mediates and moderates the effect of cultural characteristics on CSR reporting (Fernandez-Feijoo et al., 2014). As regards firm performance, studies have shown mixed findings. For instance,
Carter et al. (2003) find significant positive relationship between the fraction of women or minorities on the board and firm value.

The study finds a significant positive influence of proportion of women directors on economic, social and governance disclosure. This is consistent with the studies by Ong & Djajadikerta (2017), Nadeem et al. (2017) in Australia; Ben-Amar et al. (2017) in Canada; Yasser et al. (2017) in three Asia Pacific emerging economies (Malaysia, Pakistan, and Thailand); Cabeza-García et al. (2017) in Spain; Nekhili et al. (2017) in France; Jizi (2017), Arayssi et al. (2016) in the UK; and, (Rupley et al., 2012) in US (Nekhili et al., 2017) show that CSR engagement and reporting is more value relevant to the market value of firms with a gender-diverse board than firms with male dominated boards, this according to Jizi (2017) is because female participation on boards favorably affects CSR engagement and reporting and the establishment of ethical policies.

Moreover, the likelihood of voluntary climate change disclosure increases with women percentage on boards (Ben-Amar et al., 2017), and engaging an external assurance provider for CSR reporting is value relevant for firms without female directors but not value relevant for firms with female directors (Nekhili et al., 2017). Gender diverse boards are associated with higher quality sustainability reports (Al-Shaer & Zaman, 2016). The presence of women on corporate boards favorably influences a firm’s risk appetite and performance through promoting a firm’s investment in effectual social engagements and reporting on them (Arayssi et al., 2016).

Studies have identified a minimum number of 3 women or more for improved CSR engagement (Post et al., 2011). Fernandez-Feijoo et al. (2014) using data from a survey conducted by KPMG, and the Women on Boards Report from Governance Metrics International, find that boards with three or more women are determinants for CSR disclosure, inform more on CSR strategy and include Assurance statements. Other studies however show contrary findings on the subject. In Indonesia, Handajani et al. (2014) report a negative effect of board gender on corporate social disclosure.

The study finds a significant positive influence of proportion of non-executive directors on economic, social and governance disclosure. This is consistent with studies by Ong & Djajadikerta (2017) in Australia; Akhtaruddin et al. (2009) in Malaysia, which confirm a positive correlation between the proportion of independent directors and sustainability/voluntary disclosure. Higher board independence can enhance the corporate image of the firm through enhancing societal conscience (Jizi, 2017). Post et al. (2011) finds that a higher proportion of outside board directors were associated with more favorable environmental social responsibility (ECSR) and the natural environment ratings data from Kinder Lydenberg Domini (KLD) Inc. Independent female directors have also been shown to have a greater effect on sustainability reporting quality than non-independent female directors (Al-Shaer & Zaman, 2016). However, in Australia, Rao & Tilt (2016b) found that the relationship between independent/non-executive directors and CSR reporting is unclear. Also, Said et al. (2009) report no relationship between board independence and CSR disclosure.

The study finds a significant positive influence of multiple directorships on economic, social and governance disclosure. Similarly, Ong & Djajadikerta (2017) in Australia show a significant positive correlation between sustainability disclosures and multiple directorships. Also, Rao & Tilt (2016b) find that multiple directorships influence CSR reporting. Rupley et al. (2012) in US found a significant positive relationship between multiple directorships and company voluntary environmental disclosures. Haniffa & Cooke (2002) in Malaysia which was extended in 2005 reported a significant positive correlation between CSR disclosure and Chair with multiple directorships.

**Conclusion**

The bane of the study is to ascertain the influence of corporate board diversity on integrated sustainability reporting by manufacturing firms in Nigeria. Empirical studies have shown support for boardroom diversity as
one driver for corporate sustainability. Such diversity could be reflected, in number of female directors, the
nationality of the directors which determines their individual beliefs and values, and presence or absence of
non-executive directors and multiple directorships, among others. Moreover, integrated sustainability
reporting has emerged as new form of reporting on social, economic and governance all in a single document
to aid stakeholders makes informed short and long-term decisions. The findings contribute empirical evidence
on the influence of board diversity on integrated sustainability reporting of manufacturing firms.

The study makes the following recommendations: 1) The adoption of the NSE Sustainability Disclosure
Guidelines for a unified integrated reporting framework for Nigerian firms. The study by Okaro & Okafor (2017)
showed that no single company has reported under the international IR framework, though many companies
were reporting under the GRI sustainability reporting framework. However, extant studies have often cited
locality of development as a factor affecting adoption, therefore standards developed in western countries
were often not suited to African and developing countries. The NSE Sustainability Disclosure Guidelines would
courage the harmonization of sustainability disclosure for firms. 2) Heterogeneous board structure: The
study recommends a heterogeneous board in order to leverage on the diverse set of skills brought by board
members to decision-making. This can be achieved by encouraging adequate gender representation,
couraging adequate gender representation on the board. A corporate revolution, which involves a change
of mindset/approach by board members’ in welcoming a more heterogeneous board, as well as to place
greater trust in one another and work together more effectively (Leung, 2015). The board recruitment and
evaluation process should be such that is dynamic recognizing individual skills and capabilities as against
traditional approaches based mainly on experience usually in a particular industry. Such a process may help to
reinforce a lack of diversity in perspectives and experiences, as well as (in most companies) in gender and race
(Deloitte, 2017). 3) Instituting green initiatives at committee levels: Studies have shown that fragmented
boards with dedicated committees often perform better on sustainability programs. The study therefore
recommends the institution of sustainability committees for firms desirous of achieving triple bottom line
performance. The responsibility of the committee shall include among others, the following: a) Integrating
sustainability as part of the overall business strategy; and, b) Creating a sustainable value chain which links
sustainability to the bottom line of the company.

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