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The Effects of Gender Diversity in The Boardroom on Firm Performance among top 50 Listed Companies in Malaysia

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Abstract

Gender diversity is an important factor in boards because it can contribute to the functioning of boards which could potentially positively influence corporate performance. This paper aims to examine the effect of gender diversity of board members on corporate outcomes to provide guidance to top level managements for increase proportion of women in the boards. This research performs on the sample of top 50 listed corporations in Malaysia from the year 2014 to 2018. Corporate performance is measured using return on assets while percentage of female directors represents gender diversity. The results from OLS regression model reveal that gender diversity is positively related to corporate performance. From these findings, the higher proportion of females in boards can have a substantial impact on the performance of the corporation.

Keywords: Gender Diversity, Corporate Performance, Return on Assets.

Introduction

Financial performance is a general measure of a company's overall financial health over a given period. It is also known as profitability and can be measure using several methods but, the most used is financial analysis where profitability ratio is applied. The profitability ratio will show how well a company utilizes its assets to produce profit and value to shareholders. There are several studies conducted that examined various variables that may impact corporate performance such as company size, company age and board size, however, the emerging one in this era is gender diversity of board director. In today's business world, gender diversity has quickly become an alarming concern. Malaysia seems to be lagging in encouraging women's involvement in top level management in the Malaysian Public Listed Companies (PLCs), especially before 2015. From 2011 to 2013, the percentage of women representatives holding the role of board members is 8.6 percent, 10 percent, and 10.6 percent respectively, in which they are still at low rates of below 15 percent. Nevertheless, this percentage rose slightly to 14.3 percent in 2014. The lack of involvement of females in top level management was steadily improved in 2011, when Malaysia imposed a requirement on big

companies to achieve 30 percent board diversity by 2016. The Malaysian Corporate Governance Code also demands that all businesses to report their strategy, goals, and outcomes on diversity. Study by Korn Ferry and the National University of Singapore Business School's Centre for Governance, Institutions and Organisations reported that Malaysia was the only nation in the ASEAN region to have adopted the goal and given constructive assistance to businesses to meet the objective, even as it fell short of its aim of 30 percent inclusion of women at the decision-making level before 2016. Therefore, this research is carried out to investigate the relationship of gender diversity and firm performance of top 50 listed corporations in Malaysia and address the gaps as compared to prior research.

Literature Review

Gender diversity may be defined as the mechanism by which a man and woman will benefit the company from different characteristics and abilities. Dutta and Bose (2006) stated that gender diversity of management board is concerned with the female being on boards which is a vital part of board diversity. Nowadays, gender diversity is an important factor in boards because it can contribute to the functioning of boards which could potentially positively influence corporate performance. Carter et al. (2003) proposed that sex diversity may upsurge the autonomy of the board as women are most likely to pose questions, which male directors might not query. Nevertheless, there is an argument that gender diversity could reduce corporate performance due to the disputes of different views.

Some research was carried out to provide insight into gender diversity of board members and its connection to corporate performance. Nonetheless, the findings reported may be seen to be varied. The previous research by Carter, Simskins and Simpson (2007) have mentioned that sex diversity has beneficial impacts on performance mainly over audit role as well as company financial results. Erhardt, Werbel and Shrader (2003) found that the diversity of managing board was positively connected to both ROA and ROI. Moreover, Catalyst (2008) reported that on average, Fortune 500 corporations with more woman board members have performed significantly better measurements of financial performance than those with 53% more equity earnings, 42% more revenues and 66% more returns on invested capital. Furthermore, Laffarga et al. (2015) found that sex diversity in application of the percentage of woman board members is positively associated with higher economic results, which indicated a positive impact on organizational values and results of 125 non-financial Spanish corporations. This study is supported by research done by Sánchez (2017), which showed that percentage of women directors to be a beneficial and significant variable in correlation to ROA or Tobin's Q, which indicated that female directors can positively influence firm performance. On the other hand, Wang, and Clift (2009) have argued the gender diversity of directors and financial performance are not strongly related and assumed it is because of very limited women directors in the sample. Rose (2007) found no any significant relation between company results and percentage of female board members and argued that directors who have unorthodox background implicitly followed the ideas of the majority of members of the traditional boards, which implies that there is little real impact on results. Besides, Darmadi (2010) also found women's representation in top level management is negatively linked to both ROA and Tobin's Q, indicating that women being on boards is not connected with increased level of performance. Research carried out in Malaysia by Maran and Indraah (2009), had examined the impact of board size, corporate size, and corporate age on return on assets (ROA) and return on equity (ROE) but found an insignificant impact. Even, the finding on

regression using cross-sectional data is also contradictory to show the significance of diversity between board of directors with regards to corporate performance. In contrast, this finding is challenged by another research done in Malaysia by Julizaerma and Sori (2012), which discovered that a positive association exists between gender diversity and firm performance. This shows the benefit of having gender diversity in Malaysian boards but there is a possibility that the finding might be different if the research covers a longer period. Thus, these empirical findings give opportunity to better comprehend the issue, in which to scrutinize the relationship between sex diversity of management board and financial results of Malaysian corporations by using ROA as the indicator.

This research is carried out to scrutinize the relationship between sex diversity of managing board and corporation's financial results. Females appeared to have beneficial and significant impact on company results because of many aspects. Study done by Terjesen et al. (2009) stated that female board members are role models who inspire others as they claimed that the number of women top executives can have a beneficial influence on females' profession growth in lower positions, as it includes drawing up high-performance applicants from places other than usual and decreases the impact of old men's system. A research by Adams and Ferreira's (2009) found that not only woman board members have better attendance records than males, but eventually the more gender-diverse the boards will improve males' attendance. This proves that females positively affect male's behaviour and greater efforts to monitoring are likely to be examined in gender-diverse board members. The representation of females on board could be fully exploited if more than one female is in the boardroom, which was discussed in the literature section. This could eventually lead to the efficiency of the board resulting in a company's high performance.

The performance indicator applied in this investigation is Return on Assets (ROA), an accounting-based financial results indicator. ROA is commonly applied as financial measurement and, it is assumed to have positive association with sex diversity of board members according to the report of Adams and Ferreira (2009); Jackling and Johl (2009); Julizaerma and Sori (2012); Sánchez (2017). However, there are still several research that found negative or no association between sex diversity and company results (Rose, 2007, Maran and Indraah, 2009 and Darmadi, 2010). Different methodologies, small sample size, short observations, various controlled variables, and the lack of examination of whether board diversity is endogenous to performance might be the cause of inconsistent findings (Wang and Clift, 2009). Two research conducted in Malaysia by Maran and Indraah (2009); Julizaerma and Sori (2012) showed a contradictory result. Hence, another research that investigates ROA as performance indicator might be helpful to further explain these inconsistent results.

Methodology

This study is implying quantitative research where the finding by analysis of secondary sources is used. Based on the main objective the research that aims to scrutinize the association of gender diversity and company performance, it will focus on top 50 listed corporations in Main Market of Malaysian Bourse over the period 2014 until 2018. The data set is a panel data of moderate size within these 5 years, consisting of top 50 firms without any missing data. Due to this reason, this research will be able to collect 250 observations. Then, content analysis is conducted based on the data obtained from the annual report of the firms on Malaysian Bourse. Like most prior studies, this study will also exclude information from financial and banking institutions. This is mainly because the

terms of ownership and the fiscal policies are more closely monitored and partially due to the various accounting methodologies used in the financial statement.

The data of the investigation is obtained from the firms' official webpage from Bursa Malaysia Securities Berhad as well as DataStream in Universiti Malaysia Sarawak for the published annual report for top 50 companies from the year 2014 to 2018. In addition, database from Companies Commission of Malaysia is accessed to verify the incorporation date of corporations. Detailed information about each firm is included in the data set. The components that are important are balance sheets, income statements, depreciation, total assets, revenues, and market valuation.

Modelling the Variables

The research is carried out for the cause of empirical analysis and classified according to the purpose (Robson, 2002). This study uses descriptive tests to clarify the connections between variables and to explore them. In an explanatory analysis specific data is clarified and considered (Gray, 2009). Therefore, the measurement of variables for this study can be divided into three part such as dependent, independent and control variables which are similar variables used in prior studies. In previous studies, these variables were tested and assumed to be consistent when performing the test because they can influence ROA. The measurement on each variable used is as follows:

Table-1. Measurement of Variables

Variables	Types of Variables	Measurement Indicator
Percentage of Female Directors	Independent variable	Number of women directors / Number of board members
Return on Asset (ROA)	Dependent variable	Net Income / Total Asset
Number of Board Meeting	Control variable	Total number of board meeting held during the financial period
Board size	Control variable	Number of board members
Firm size	Control variable	Natural logarithm of total assets of the firm
Firm age	Control variable	Number of years of business operation

For this research, the OLS-regression is constructed for the variables tested. The method ensures the multicollinearity problem is worked out first so that the fundamental regression analysis premises are fulfilled. If the residuals have constant variance, OLS estimator has minimum variance of all unbiased estimators. Furthermore, if the errors are normally distributed, hypothesis testing using F tests will be carried out. Hence, in this research all the regression findings are indicated using f-statistics and the association is determined using coefficients. The relationship between sex diversity of board members and corporate performance was tested by the following regression model:

$$ROA = \beta_0 + \beta_1 PWOMEN + \beta_2 BSIZE + \beta_3 FSIZE + \beta_4 FAGE + \beta_5 BMEETING + \epsilon_i$$

Where:

ROA = Return on Asset

PWOMEN = Percentage of Women Directors

BSIZE = Board Size

FSIZE = Firm Size

FAGE = Firm Age

BMEETING = Number of Board Meeting

ε = Error term

Hypothesis Development

To examine the relationship of gender diversity and firm performance of top 50 listed companies in Malaysia, hypothesis is required. Accordance with the objectives of this research, the hypothesis used to be formed:

H₀: There is a significant relationship between percentage of women directors and firm performance (ROA).

H₁: There is a significant relationship between firm size and firm performance (ROA).

H₂: There is a significant relationship between board size and firm performance (ROA).

H₃: There is a significant relationship between firm age and firm performance (ROA).

H₄: There is a significant relationship between number of board meetings and firm performance (ROA).

Findings

Descriptive Analysis

In general, overall distributions are comparable to earlier research. For example, the mean of females' percentage in board is slightly higher than in the research by Maran and Indraah (2009) where they gained a mean of 13.5 percent using a sample of top 100 corporations in period 2000 until 2006 as compared to 17.1 percent in this research. This average percentage is also higher compared to the calculated percentage of females' director in boards of Malaysian corporations in 2014 and 2015 which are 14.3 percent and 15.8 percent respectively. Besides, the mean of the total number of board members at 9.10 percent is lower than in the research conducted by Laffarga et. al. (2015) which they only managed to achieve board size of 11.25 members. Next, the mean of firm size in this research measured by the natural logarithm of total assets of company is 16.08, in which constitute the average size of corporations in the sample. Moreover, these corporations have an average of 27.50 years of operating the business in their respective sector.

Table-2. Descriptive Statistics of Variables used in the Study

Variables	Standard Deviation	Minimum	Maximum	Mean
Return on Assets	7.673328	- 8.220000	42.01000	8.355720
Percentage of Females Directors	11.23562	0.000000	57.14000	17.14220
Total No. of Board of Members	2.154006	4.000000	15.00000	9.104000
Natural logarithm of total assets	1.608696	10.00000	19.00000	16.07960
No. of Years of Business Operation	16.11237	1.000000	58.00000	27.50000
Number of Board Meeting held in a year	3.794530	3.000000	25.00000	7.056000

Correlation Analysis

Table 3 shows the correlation between each variable tested in this research and the controlled variables when it is analysed using bivariate analysis. Generally, some of the variables are highly

correlated with each other and possess high significance effect when $p < 0.01$ at 99 percent significance level, $p < 0.05$ at 95 percent significance level and $p < 0.10$ at 90 percent significance level. The significance association between most of the variables emphasises the importance of examining for possible multicollinearity problem in the regression as examined by Van der Walt et al. (2003). Nevertheless, some variables indicated negative correlation but have a significant impact.

Overall, the finding of this research is quite similar with earlier research, which indicate strong associations of controlled variables, between board size and corporation size with a significance level of 1% that is aligned with studies of Lehn et. al. (2004) and Julizaerma and Sori (2012). In addition, board size and number of board meetings have negative relationship with asset return but are statistically significant at 1% significance level. It is close to the research by Julizaerma and Sori (2012), where the board meeting is stated to have a negative but delayed financial performance connection. Furthermore, females' proportion in boards is positively correlated and statistically significant at 5% significance level with return on assets. However, there are some variables that have negative and insignificant relations with females' representation which indicates that it must be analysed in the regression because of its weak associations that could prevent the multicollinearity issue.

Table- 3. Correlation Analysis

Variables	ROA	POWD	FS	BS	NOBM	FA
ROA	1.000000					
POWD	0.125694 0.0471**	1.000000				
FS	-0.518404 0.0000***	0.025150 0.6923	1.000000			
BS	-0.261893 0.0000***	0.113432 0.0734*	0.242796 0.0001***	1.000000		
NOBM	-0.288721 0.0000***	0.199533 0.0015***	0.389642 0.0000***	0.089203 0.1597	1.000000	
FA	0.101176 0.1105	-0.227136 0.0003***	0.086259 0.1740	-0.242541 0.0001***	0.057674 0.3638	1.000000

Notes: ***, **, * denote statistically significant at 1%, 5%, and 10% level respectively.

Regression Analysis

OLS regression analysis is tested to determine whether the model is consistent with the data and whether the explanatory variable has an effect on the response variable. According to the regression findings shown in table 4, some of the variables are relatively positive and have a significant impact on corporate performance that is calculated by ROA. Nonetheless, some variables are related to corporate performance negatively. The independent variable which is the proportion of the female directors examined in this research is positively related to corporation performance and has a significant impact on it when $p < 0.05$. This supports the hypothesis that ROA is positively associated with gender diversity of board members and implies that female directors in this study positively influence corporate performance from an accounting perspective, which is similar with the findings gained from Sánchez (2017) in the Spain and Carter et al. (2010) in the US.

For the controlled variables, the impact of the board size that is measured by number of board members and the number of board meetings show negative relationships to the business performance. This is consistent with earlier studies by Adam and Ferreira (2004) and Julizaerma and Sori (2012) that fail to find any positive and significant relationship between board size and performance and board meetings and performance. The company age, on the other hand, has positive and significant relation with corporate performance which indicates older corporations in the sample are performing better as compared to younger corporations.

In determining the presence of multicollinearity, test of variance inflation factor (VIF) is carried out as recommended by earlier research (Maran and Indraah, 2009). According to the rule of thumb, if the VIF of variables exceeds 10, that variable is said to be highly collinear. Thus, there is no multicollinearity problem in the analysis because all the predictor variables are ranging from 1.11 to 1.26.

Table-4. OLS Regression of the Corporate Performance and Gender Diversity

Model	Coefficient	t-statistic	Significant
Percentage of Women Directors	0.150722	4.067991	0.0001
Firm Size	-2.133823	-7.719678	0.0000
Board Size	-0.439188	-2.233982	0.0264
Number of Board Meeting	-0.317896	-2.745843	0.0065
Firm Age	0.080511	3.072587	0.0024
Constant	44.11043	10.41837	0.0000
R-squared	0.354428	-	-
F-statistic	26.79191	-	-

Summary of Hypotheses

Based on the results, it can be concluded that all the hypotheses are backed by past researchers.

Table-5. Summary of the hypothesis

Hypotheses	Results	Supported/Not Supported
H_0 : There is a significant relationship between percentage of women directors and corporation outcomes	Positively significant	Supported
H_1 : There is a significant relationship between corporation size and corporation outcomes	Negatively significant	Supported
H_2 : There is a significant relationship between board size and corporation outcomes	Negatively significant	Supported
H_3 : There is a significant relationship between company age and corporation outcomes	Positively insignificant	Supported
H_4 : There is a significant relationship between board meetings and corporation outcomes	Negatively significant	Supported

Conclusions

This study has been done with the objective to examine the relationship of gender diversity and firm performance of top 50 listed companies in Malaysia from the year 2014 to 2018. The performance of corporation is measured using ROA. The analytical findings show a positive correlation with explanatory variable which is POWD. Control variables, on the other hand, the findings show a negative correlation between ROA and FS, BS and NOBM. Nonetheless, ROA has a positive correlation with FA. The explanatory variable which is the proportion of the female directors examined in this research is positively related to corporation performance. It reinforces the hypothesis that ROA is strongly related to the diversity of gender in the board members. This may be affected by the strong corporate governance possessed by the sample firms in this research. It can be elaborated by an earlier research carried out by Adams and Ferreira (2009), which indicates that sex diversity of board members is significantly and positively related to asset return, and the corporate governance mechanism is supposed to be accountable. This analysis is backed by Johansen's (2008) work that found that the mean of ROA with high proportion of female directors is 8.2 % whereas businesses with lower representation of women simply have poor corporate governance. Thus, it can be stated that the higher proportion of females in boards can have a substantial impact on the performance of the corporation. Regarding the control variables, the effect of the business size, the board size and the number of board meetings show negative relationships to the business performance. Yet all of them show the significant impact on business outcomes where they have a p-value of 0.0000, 0.0264, and 0.0065 respectively. This could reflect the fact that smaller boards lead to better financial outcomes as suggested by Yermack (1996). The findings show surprisingly that the size of the corporation is negatively related to ROA and it matches with prior research by Carter et al. (2003). Nonetheless, board meetings have significant impact on firm's outcomes. In addition, the corporation age which is measured by number of years of company operation is positively related to company outcomes. The positive outcome may indicate that older companies perform better than younger companies in the research.

This research is crucial in highlighting the advantages of females' involvement in the corporate boards. Employing ROA as the indicator of accounting performance, the findings indicate that there exists a positively significant relationship between percentage of female directors which represents gender diversity and asset returns. Such findings have been confirmed and validated by earlier researchers who also carried out studies on related topics. This result is aligned with the requirement by Malaysian government that required big companies to achieve 30 percent board diversity by 2016 and has extended until 2020. The Malaysian Code on Corporate Governance also imposed a requirement of having gender diversity in board to all companies. Hence, it is recommended that this approach should be continuously imposed and implemented by business sectors to obtain the benefits of having the mixing of females and males in the boardroom for better corporate performance.

Nonetheless, there are some limitations which cannot be avoided while this research is carried out and can be improved for future study. Firstly, this research employs ordinary least square (OLS) regressions to scrutinize the impacts of gender diversity in the boards on financial outcomes. OLS regression in its nature only examines the linear connections between response and explanatory variables. In other terms, it believes the correlation is straightforward and sometimes this is wrong. Therefore, future research needs to examine the impacts of corporation outcomes and other company characteristics on the gender diversity of board members through a simultaneous equation

framework, as carried out by Campbell and Minguez-Vera (2008). Secondly, this research employs cross-sectional analysis among listed corporations in five financial years of 2014 until 2018 only, which makes the findings cannot be generalized for other financial years. Thus, future research is encouraged to include the use of longitudinal data into consideration to provide more reliable perspectives into the correlation between gender diversity and financial outcomes. This is because the more relevant the results and findings are when there is a longer timeframe for a research. Lastly, the application of ROA as a determinant for financial outcomes has its own shortcomings. The results can be challenged to achieve better outcomes by incorporating different approaches or other financial metrics. Hence, future research needs to consider the use of other approaches or other financial metrics as a measurement to achieve a better finding. To conclude, this study focuses primarily on top 50 firms listed in Main Market of Bursa Malaysia. Hence, there are flaws to be improved to get a more detailed and precise results.

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