Team Performance ManagementTop Management Team (TMT) Age Diversity and Firm Performance: The moderating Role of the Effectiveness of Top Management Team meetings

by Sutarti Sutarti

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(Evidence From Commercial Banks in Indonesia)

Abstract

Objectives - This study aimed to investigate the direct effect of directors' age diversity, and its interaction effect with the effectiveness of top management team meetings on bank performance.

Methodology - Quantitative data were extracted from the bank's annual reports for the six years 2011 to 2016. Age diversity was calculated using the coefficient of variation, and the bank's performance was measured as return on assets and return on equity. The frequency of directors' meetings was used as a proxy for the effectiveness of top management team meetings.

Findings - Based on the hierarchical regression analysis, the results do not support the hypothesis that there is a negative influence between age diversity on performance. However, the results support the hypothesis that age diversity has a positive effect on performance due to the high effectiveness of top management team meetings.

Practical Implications - The findings of this study indicate that the existence of age diversity in TMT will aid bank governance if it is accompanied by effective meetings among groups of directors of varying ages. This age composition of directors will make meetings more effective as rich information for strategic decisions will be generated from different points of view due to the wide spectrum of age categories, and hence, there will be a positive impact on bank performance.

Social Implications - This study indicates that effective meetings of TMT groups of different ages will minimize the rise of "self-esteem". Therefore, they will benefit the creation of a better quality relationship among TMT individuals. Accordingly, TMT within a company will have more opportunities to discuss in providing bright ideas for the company on how to innovate and create a new strategy to improve its performance.

Originality/value - This study, being the first to explore the effectiveness of top management team meetings to bank performance in the contexts of directors' age diversity, contributes to the literature in this area, and especially to the body of knowledge about companies implementing a two-tier governance system.

Keywords: Age diversity, performance, effectiveness TMT meetings, top management team

1. INTRODUCTION

Performance, especially in terms of efficiency, is an important competing factor for the Indonesian commercial banks in the ASEAN Economic Community (AEC) banking sector in 2020. However, governance is one of the determinants of bank performance (Bozec et al. 2010; Chan & Heang, 2010; Tanna et al. 2011; Zabri et al, 2016; Ramli and Ramli, 2017; Pillai et al. 2017; Mahrani and Soewarno, 2017). Concerning corporate governance practices, diversity in

the Top Management Team (TMT) is considered to be an important variable that supports performance (Hambrick and Mason, 1984). TMT is a relatively small group of the most influential executives, which possesses the authority to determine strategies at the apex of an organization. Some studies limit TMT to the two top levels of organizational management which include Chief Executive Officer (CEO), Chief Operating Officer (COO), Chief Financial Officer (CFO), Chief Information Officer (CIO) (Carpenter, 2002; Finkelstein & Hambrick, 1996; Wirsema & Bantel, 1992).

Based on the public companies in Indonesia (including banks), the issue of diversity in TMT has been a concern for regulators since 2014, as described in the road map of the country's corporate governance. According to chapter 2 related to strengthening good corporate governance, it was recommended that companies should consider the diversity composition of the commissioner and director boards. This included academic qualifications, expertise, age, and gender, in order to achieve a good governance (Financial Services Authority, 2014). Also, this policy was further regulated into the Circular Letter of the Financial Services Authority No. 32/SEOJK.04/2015, concerning governance guidelines for public companies, including banks. Furthermore, age diversity is specifically a very interesting topic to be further studied in Indonesian companies, including banks. This is due to the entrance of the country into the demographic bonus era, where the population structure with the number of productive ages (15-64 years) is very large. However, the proportion of the young and elderly population is becoming smaller and not very large, respectively (Falikha, 2017). Based on a large proportion of productive age, the possibility of increase in the age diversity of company workers is assumed (Boehm et al. 2011).

Previous research related to the relationship between TMT age diversity and performance have been globally and locally (in Indonesia) conducted, however, the results have not been consistent (Kilduff et al. 2000, Webber & Donahue, 2001; Ozer, 2010; Nielsen & Nielsen, 2013; Talavera et al. 2017; Tanikawa et al. 2017; Rompis et al. 2018). Some studies have found a positive relationship (e.g. Kilduff et al. 2000), while others have identified negative (e.g. Ozer, 2010; Talavera et al. 2017; Tanikawa et al. 2017), and non-significant relationships (e.g. Weber & Donahue, 2001; Nielsen & Nielsen, 2013; Rompis et al. 2018). Furthermore, various results have shown that diversity in directors is like a double-edged sword, as the theory stated by Williams and O'Relly (1998), had positive and negative impacts. However, some experts stated that the inconsistency between the relationship of TMT diversity according to these previous studies might due to some important moderating or intervening variables which were ignored (Carpenter, 2002; Olson et al. 2006; Van Knippenberg and

Schippers 2007). Therefore, it is important to examine the moderating variables in the relationship between TMT diversity and corporate performance as the relationship might be complex and indirect.

The previous literature explained that several variables as moderate factors, were used to highlight the relationship between TMT diversity, which contained other types of diversification (Carpenter, 2002; Gallent et al. 2015; Tanikawa et al. 2017), meetings (Almusali and Ku Ismail, 2015) or increased interaction among members (Boehm et al. 2011). Carpenter (2002) and Tanikawa et al. (2017) studied the role of moderating variables by examining the relationship between TMT's age diversity on performance with only a narrow focus on the variables related to personal characteristics of TMT's members. Furthermore, there are limited studies on the effect of age diversity on performance with moderating variables, which are related to TMT characteristics in organizational contexts. These characteristics include meetings in developing countries, such as Indonesia, where the governance administration adheres to a two-tier board system.

Based on filling the gap with the addition of empirical analysis, this study aims to examine the role of TMT meeting effectiveness, in moderating the effect of age diversity on performance. Therefore, the main question in this study is to determine whether the meeting effectiveness moderates the effect of age diversity on performance. Furthermore, this study focuses on the effectiveness of TMT meetings as a moderating variable, due to being an important part of corporate governance (Almusali and Ku Ismail, 2015). Previous literature also showed that these meetings improve performance (Harymawan et al. 2020), and conceptually reduce the negative impact arising from TMT diversity (Almusali and Ku Ismail, 2015).

This study also theoretically and conceptually contributes to existing knowledges, by examining the factors influencing the interactive effects of TMT meeting effectiveness and age diversity on performance. Theoretically, the study provides empirical evidence on the role of TMT meeting effectiveness in moderating the influence of age diversity on performance. In concept, the findings of this study have implications for improvement in bank performance through an evidence-based decision on the implementation of good governance.

The outline of the remaining part of the paper is presented as follows: section 2 dwells on literature review, section 3 explains the methodology, while Section 4 and 5 present the results of analysis and discussion respectively.

2. Literature Review

2.1. *Upper Echelon Theory*

Upper echelon theory hypothesizes that the top management characteristics affect the outcomes of an organization (Hambrick & Mason, 1984), which includes a strategic choice. The experience, values, and personality of the board of directors who are the top management team (TMT) in an organization have a major influence on deliberations at meetings and affect decisions regarding the choice of strategy. Therefore, strategic choices are generally more influenced by components of behaviour and reflect the idiosyncrasy of the decision-makers, such as the cognitive basis. March and Simon (1958) in Hambrick and Mason (1984) argue that every decision-maker, in this case, directors, carries a group of *"givens"*. Givens reflects the cognitive basis of decision-makers which includes knowledge or assumptions about future events, knowledge of alternatives, and knowledge of the consequences inherent in alternatives. Thus, this theory can be used to understand how management makes a strategic decision based on its characteristics, which in turn will have an impact on organizational performance

2.2. *Resource Dependence Theory*

Resource dependence theory focuses on the benefits provided by individuals within the company, through linkages with external organizations (Pfefer & Salancik, 1978). The companies that depend on their environment, directors, and commissioners, play a role in connecting with external organizations, towards overcoming this dependence. Also, the demographic and cognitive diversities of directors and commissioners are expected to support this ability, due to diverse boards having better access to information and networks (Bryant & Davis, 2012).

According to Pfeffer & Salancik (1978), there were four functions of external linkages, (1) Provision of resources such as information and expertise, (2) Creation of communication channels between companies and their constituents, (3) Availability of additional support from external organizations, in the form of financial commitments or reputations, (4) Provision of additional legitimacy. Furthermore, diversity in the membership of directors provide more valuable resources, which affects the improvement of company performance when utilized.

2.3. Top management team

Top management team (TMT) is defined as a coalition of dominant or influential actors in an organization (Pettigrew, 1992), or top executives who have a direct influence on strategy formulation (Finkelstein & Hambrick, 1996; Nielsen, 2010). Based on the relation to TMT, the

corporate governance literature explained that there were generally two main sets of legal rules in organizational management supervision, namely one and two-tier boards. According to the one-tier system, the roles of the supervisory and executive boards are combined in a single forum known as the directors (Tricker, 2009). However, the dualism of separate management and supervisory boards were utilized, based on the two-tier system (Jungmann, 2007). The one-tier board is widely applied by companies in European countries and the UK, while the two-tier system is utilized by the organizations in Germany, the Netherlands, Austria, Finland, and Denmark (Jungmann, 2007).

The management supervisory system of companies in Indonesia adheres to a two-tier board system, where shareholders appoint a group of operation managers (management), which are represented by directors and supervisors known as the Board of Commissioners. Therefore, there is a separation between the supervisory and management functions (Darmadi, 2011; Budiarti & Sulistyowati , 2014). Based on the governance rules of commercial banks (POJK No. 55/POJK.03/2016), the directors are fully responsible for the management of the organization, while the board of commissioners are obliged to supervise the implementation of duties and responsibilities. These boards are also responsible for providing advice to the directors, based on the business plan of the bank (POJK No. 5 /POJK.03/2016). Based on reference to the definition of TMT (Carpenter, 2002; Finkelstein & Hambrick, 1996; Wiersema & Bantel, 1992), the directors are the TMT group on the governance structure of Indonesian banks.

2.4. Top Management Team (TMT) Diversity

Company performance is a reflection of the TMT characteristics and actions (Hambrick and Mason, 1984). One important such characteristics is TMT diversity. Diversity refers to varieties of attributes among individuals that make people different from one another (Williams & Knippenberg, 1998). Based on the relation to the diversity of the top management team (TMT), Williams and O'Relly (1998) describe three theoretical perspectives related to diversity used by most researchers as the basis to investigate. The three perspectives are social categorization theory, similarity/attraction theory, and information and decision-making theory. According to social categorization theory and similarity theory, the diversity in TMT tends to have a negative impact as heterogeneity breeds lack of satisfaction in the group, increased turnover, lack of cohesion, and increased conflict. On the other hand, information and decision-making theory suggests that the varieties in group composition can have a direct positive impact through increased skills, abilities, information, and knowledge brought about

by diversity, regardless of what happens in the group process. The heterogeneity of group members indicates that different individuals have access to various external information networks which may be beneficial to the group for a better decision-making process that results in improved performance.

2.5. The Effectiveness of Top Management Team meetings

Top management team meeting is an activity conducted by TMT members in a company, which is positively related to organizational performances. Several previous studies used different measures to promote the effectiveness of top management team meetings in companies. Bang et al. (2010), used primary data (questionnaires) to measure intra-team behaviour, based on the three dimensions of team effectiveness stated by Hackman (2002), in order to explain the efficiency of TMT meetings. These three dimensions were task performance, relationship quality, and member satisfaction. Furthermore, task performance is the degree to which the productive output of a team (for example, solutions to problems, decisions, ideas) meets or exceeds the goal of raising the problem. The relationship quality is also the degree to which team members treat each other, towards enhancing the ability to work together in an interdependent manner. Also, member satisfaction is the degree to which discussion of agenda items "positively contributes to the learning and personal well-being of individual team members".

Several studies with secondary data samples further used the number of TMT meetings in one year as a measure of effectiveness (Harymawan et al. 2020; Almusali and Ku Ismail (2015). Harymawan et al. (2020), explained that more top management team meetings were associated with higher company performance, where more conferences reflected greater effective efforts (for example, through focused communication, constructive dialogue, and quality decision making).

Based on the TMT meeting in Indonesian banks, the directors have been regulated into the governance rules of commercial financial institutions (POJK No. 55/POJK.03/2016 Article 20 and Article 31), which stated that every policy and a strategic decision made by the directors should be decided by its meeting. According to the governance rules of public companies (POJK, No. 33/POJK.04/2014 Article 16), it was stated that the Directors should hold regular meetings at least once every month. Al Musali & Ku Ismail (2015) stated that the effectiveness of board meetings plays an important role in reducing the negative effects associated with board membership diversity. In addition, the frequency of board meetings is important in ensuring an in-depth discussion of the company's issues which gives more opportunities to negotiate and

define strategies (Vafeas, 1999). The more frequent the intensity of board meetings, the increase the effectiveness of the board (Conger et al. 1998) through knowledge and skills sharing among members of diverse characteristics (Wincent et al. 2010).

2.6. Hypotheses Development

2.6.1. TMT Age Diversity and Performance

Membership age diversity has an impact on experience and knowledge at the disposal of the TMT. The literature on TMT identifies age as a proxy for experience (Herrmann & Datta, 2005), and age-related diversity implies varieties of experience, values and perceptions (Hambrick & Mason, 1984). Younger age is associated with more flexibility, innovation, and adventuring (Hambrick & Mason, 1984). While older-aged workers are considered to be more experienced, better in judgment, and paying good attention to work ethics and quality (Robbins & Judge, 2015). Even though younger workers tend to be more satisfied with their work, older workers have better relationships with their colleagues and are more committed to the organization (Singh & Sarkar, 2012). Hambrick & Mason (1984) stress that teams consisting of members of different age groups tend to reflect different values, attitudes, or cognitions. Besides, the age of TMT members represents psychological constructs made up of experience, values, and perceptions for collective strategic decision-making influencing company performance (Tanikawa et al. 2 017). Furthermore, decision-making theory explains that diversity of ages can have a positive impact on the organization due to the pooled experiences in the group. Contrarily, social categories and similarity theories stated that the diversity of age tends to bring conflict and a negative impact on organizational performance (Williams & O'Relly, 1998; Pelled et al. 1999).

Although there are conflicting views regarding the relationship between age diversity and bank performance, this study still assumed a negative association, based on the perspectives of social categorization and similarity/attraction theories. (Williams & O'Relly ,1998). By evidence, a previous study confirms a negative relationship between age diversity and performance (Talavera et al. 2017; Tanikawa et al. 2017). Furthermore, negative impact due to age diversity highly causes conflict, which further leads to a longer decision-making process, therefore, reducing the team performance effectiveness. Considering the positions of the existing literature reviewed above, this study formulated and tested the following postulation as its first hypothesis:

H_1: The diversity of the directors' age has a negative effect on performance.

2.6.2. *The moderating role of the effectiveness of board meetings in weakening the negative influence of age diversity on performance*

Many previous studies on the relationship between the diversity of directors and company performance were inconsistent in findings. For instance, one of such studies affirms the positive effect of age diversity on performance (Kilduff et al. 2000), while another indicates a negative relationship between the two variables (Tanikawa et al. 2017), and some other findings indicate no influence at all (Nielsen & Nielsen, 2013; Weber & Donahue, 2001). This inconsistency in the previous studies might be probably due to exclusion of some intervening variables (Miller et al. 1998; Pitcher & Smith, 2001; Olson et al. 2006; Mutuku et al. 2013) or moderating variables (Carpenter, 2002) which must be further investigated. Due to differences in experience and perspectives from each age group, the negative impact of age diversity on performance can cause conflict and lack of cohesion (Williams & O'Relly, 1998).

The previous literature showed that several variables used as moderating factors to explain the relationship between diversity in TMT, contained other types of diversification (Carpenter, 2002; Boehm et al. 2011; Tanikawa et al. 2017), meetings (Almusali & Ku Ismail, 2015), or increased interaction among top management team executives (Boehm et al. 2011). Based on resource dependency theory, Almusali & Ku Ismail (2015) finds a weak link between governance and performance in the context of BOD's diversity which can be overcome by including the effectiveness of BOD's meetings in the model. This implies that the number of meetings can be fashioned as a TMT tool for effective communication and transfer of knowledge and expertise across each age group for better performance (Wincent et al. 2010, Almusali & Ku Ismail, 2015).

This study referred to the three dimensions of the team, which was stated by Hackman (2002), namely task performance, relationship quality, and member satisfaction. Furthermore, the author assumed that high-intensity meetings provided more time for TMT to discuss organizational goals and problems, as well as establish a better quality relationship among members. Based on individuals being assumed to have a desire in maintaining levels of "self-esteem" (Williams & O'Relly 1998), the age diversity in TMT is found to cause conflicts. However, this diversity is still expected to reduce these behaviours, due to high frequency of meetings, which in turn leads to the emergence of good individual potentials. Harymawan et al. (2020), indicated that top management team meetings were positively related to company performance, while further suggesting that more TMT conferences represented higher effective efforts. The study of Bagire et al. (2015), also explained that meetings provided a forum for

decision making, communication, motivation, interpersonal relationships, and dispute resolution.

Mutuku et al. (2013), explained that organizations should encourage diverse TMTs to conduct meetings, in order to identify the root cause of problems. This was because the forum provided an opportunity to generate multiple options, through a brainstorming process. Furthermore, TMT meetings allow the sharing of information and desired allocation of resources. Based on these meetings, diverse members are found to improve communication and develop new ideas in order to enhance bank services. Vafeas (1999), also found that firm performance increased when there was an increment in the frequency of board meetings. Based on the reviewed literature above, this study formulates and tests the following as the second hypothesis:

H2: Effectiveness of TMT meetings moderates (weakens) the negative relationship between of directors' age diversity (TMT) and performance.

3. Methodology

3.1. Research Data and Samples

The population for the study was commercial banks registered with Bank Indonesia for the period 2010-2016, with the exclusion of the regional development banks (BPD) not listed on the Indonesia Stock Exchange (IDX). Through sampling, an unbalanced panel data consisting of 40 groups with observations of 228 was obtained. The study analysed the secondary data sourced from banks annual reports, bank websites, bank news releases or governance reports, and banks financial statements.

3.2. Research Model

The model for testing the hyphoteses in this research is shown in model 1, 2, and 3. The research models were adapted from Almusali & Ku Ismail (2015):

The research model for testing hyphothesis H_1:

$$PERF_{it} = \beta + \beta_1 DIV\_AGE_{it} + \beta_2 DIV\_GEN_{it} + \beta_3 SIZE\_DIR_{it} + \beta_4 SIZE_{it} + \beta_5 LIST_{it} + \beta_6 LEV_{it} + \beta_7 GOV_{it} + \beta_8 FOREIGN_{it} \qquad (1) \ . \ (1)$$
$$+ \beta_9 Competition_{it} + \varepsilon_{it}$$

The research model for testing hyphothesis H_2:

$$PERF_{it} = \beta + \beta_1 DIV\_AGE_{it} + \beta_2 EFEK\_DIR_{it} + \beta_3 DIV\_GEN_{it} + \beta_4 SIZE\_DIR_{it} + \beta_5 SIZE_{it} + \beta_6 LIST_{it} + \beta_7 LEV_{it} + \beta_8 GOV_{it} + \beta_9 FOREIGN_{it} + \beta_{10} Competition_{it} + \varepsilon_{it}$$

$$\dotsb \qquad (2)$$

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$$PERF\ it = \beta + \beta 1 DIV\_AGEit + \beta 2 EFEK\_DIRit + \beta 3 DIV\_AGE * EFEK\_DIRit$$
$$+ \beta 4 DIV\_GENit + \beta 5 SIZE\_DIRit + \beta 6 SIZEit + \beta 7 LISTit + \beta 8 LEVit$$
$$+ \beta 9 GOVit + \beta 10 FOREIGNit + \beta 11 Competitionit + \varepsilon it$$

.... (3)

Where:

PERF is the current performance of banking as measured by return on equity (ROE) and return on assets (ROA) in the bank i in year t.; *DIV_AGE* is the bank directors' age diversity measured using the coefficient of variation; EFEK_DIR is the effectiveness of directors (TMT), measured by the number of directors meetings in a year at bank i in year t; DIV_GEN: gender diversity of directors in the Index, SIZE is the size of bank i in year t in log_aset; SIZE_DIR is the number of directors in the bank; LEV is total debt leverage divided by total assets; LIST is a bank listed in the IDX with a value of 1 and 0 for others. GOV is a dummy variable 1 if the bank is owned by the government, and 0 for others; FOREIGN is a dummy variable 1 if it is a foreign bank and 0 otherwise. Competition is the level of competition at the bank level, competitiveness is seen from the cost price margin.

3.3. Operationalization of Defined Variables

3.3.1. *Dependent Variable: Bank Performance (PERF)*

The bank's performance in this study was measured using three indicators namely; financial performance in terms of profitability measured using the ratio approach, namely return on equity (ROE) and return on assets (ROA) (Tanikawa, 2017). ROE is a measure of financial performance calculated by dividing net income by average shareholders' equity; while ROA is obtained from pre-tax profit divided by average total assets.

3.3.2. *Independent* Variables: Age Diversity (DIV_AGE)

The age diversity of directors was calculated using the coefficient of variation, which was calculated as thus: Variation coefficient = (σ / x), where σ is the standard deviation and x is the mean (Bantel & Jackson, 1989; Wiersema & Bantel, 1992; Bedeian & Mossholder, 2000).

3.3.3. *Moderating* Variable: Effectiveness of TMT meetings

According to Al Musali & Ku Ismail (2015) and Harymawan et al. (2020), the frequency of directors (TMT) meetings was measured as a proxy for TMT meeting effectiveness. This proposition was based on the idea that meeting frequency reduced the negative effect of TMT diversity. Therefore, the interaction between the diversification and effectiveness of TMT meetings improved performance by attenuating the negative impact of age diversity, which in turn created positive effects.

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3.3.4. *Control* Variables

In this study, the control variables consisted of bank size, gender diversity, number on directors, listing status on IDX, leverage, ownership and competition. The size of the bank (SIZE) was derived from the natural log of total assets (Oyewole et al. 2013). This SIZE was further linked to bank performance, due to the abilities of larger financial institutions to achieve cost reductions, based on scale economies. De Andres & Vallelado (2008), suggested that growth was a major factor in determining profitability, although large banks presented lower costs and higher market power. Therefore, this study considered the logarithm of total assets (Setiyono &Tarazi, 2014; Diaz Fernandez et al. 2014). DIV_GEN is gender diversity of directors in the Index (Schwab et al. 2015). Based on being similar to age diversity, this gender diversification was observable (Miliken & Martin, 1996), due to being associated with better analytical processes, as well as access to information and decision-making. It also increased completeness in decision-making, and improved organizational performance (Carpenter,2002). SIZE_DIR is the number of directors in the bank, where the increase in size and diversity of these executives provided benefits for the company. This was due to the creation of a network with external parties, while also ensuring the availability of resources (Wijayanti & Mutmainah, 2012). LIST indicated that the bank was registered or not on the IDX (Setiyono & Tarazi, 2014), a value of 1 was assigned if the listing was on the stock exchange and 0 otherwise. A bank that is listed on the stock exchange is expected to be monitored more and subject to stronger market discipline which leads to better performance. LEV is total debt leverage divided by total assets; GOV is bank ownership, dummy variable code 1 was assigned if there was government ownership of banks, and 0 otherwise (Shuying et al. 2017).). Li & Simerly (1998), showed that bank ownership structure affected the level of managerial supervision, based on an effort to improve performances. According to the conventional efficiency-based economic perspective, state ownership played a minor role in promoting innovation and firm performances. (Zhou et al. 2016). FOREIGN was the ownership of the bank, dummy variable 1 was assigned if there was foreign ownership and 0 otherwise (Setiyono & Tarazi, 2014). Furthermore, the presence of foreign owners caused lower financial intermediation costs (namely spreads or lower margins), which in turn led to lowering profitability (Claessens et al. 2001). The Competition variable was a measure of the level of competition at the company level; the ability to compete was seen from the cost price margin (Bos et al. 2013). Competition also stimulated bank innovation activities, as well as ensured more efficiency in screening and monitoring borrowers, which in turn affected risk-taking and profitability (Hu & Xie, 2016).

3.3.5. *Analysis* Method

The study employed a panel data model and the Chow and Hausman test was applied to fit the best regression model between pooled least square, fixed effect, or random effect. The panel data analysis estimators used the generalized least square (GLS) method. Heteroskedastic violations were overcome by adding the "vce (robust)" option when carrying out the regression command in STATA (Cameron & Trivedi, 2009). For testing classic assumptions for multicollinearity, the VIF (Variance Inflation Factor) test was applied, where the mean VIF above 10 indicates multicollinearity. Based on the VIF test for each test model, there were multicollinearities for several test variables. The violation of multicollinearity in this study was treated by centering and eliminating the independent variables that caused multicollinearity.

4. Results and Discussion

The study was conducted on 40 selected banks registered with the Bank Indonesia from 2010-2016 with a total of 228 observations. The 40 banks consisted of 4 state-owned banks, 3 regional development banks (BPD), 26 private banks, and 7 sharia commercial banks. Data were extracted for analysis from the financial report, annual report, bank governance reports, and bank websites.

Table 1 shows the descriptive analysis and multivariate analysis, which consists of means, standard deviations, and correlations for the variables selected to explain the effect of TMT diversity on performance with the effectiveness of TMT meetings as a moderating variable.

Testing the hypothesis H_1 to examine the effect of age diversity on performance (ROE and ROA), the regression results in Table 2 show that in model 1, age diversity does not affect performance (ROE and ROA), the value of each coefficient is not significant. The coefficient of the effect on ROE is -0.090 and a p-value is 0.391 (p-value> 0.1) with a R^2 value of 44.24%. For the effect on ROA, the coefficient is -0.017 with a p value of 0.471 (p-value> 0.1) and a R^2 value of 52.49%. Since the p-value is not significant, the decision indicates that H_1 is not accepted.

The results of this study support previous findings that found no effect of age diversity on performance (Weber & Donahue, 2001 ;Nielsen & Nielsen, 2013; Rompis et al. 2018). The absence of the influence of age diversity on performance might be due to several probable reasons which include the fact that varieties of experience can be generated through age diversity, however, it is less related to the group's task and work done (Pelled, 1996; Pelled et

al. 1999). On the other hand, attributes related to age diversity form the context of social relationships that are less related to team goals. Furthermore, based on the upper echelon theory, the characteristics of individual members of TMT have an impact on strategic action, which in turn can be linked to company performance (Hambrick & Mason, 1984). Homberg and Bui (2013) and several other studies have linked it to decision-making and cognition. Thus, some previous researchers suggested that the relationship between TMT diversity and performance should be mediated by a variable that shows the outcomes of TMT to reveal when and how TMT diversity can affect organizational performance (Miller et al. 1998; Pitcher & Smith. 2001; Carpenter, 2002; Kochan et al. 2003; Olson et al. 2006; Mutuku et al. 2013). In addition to the use of mediating or intervening variables, some researchers also suggested using moderating variables (Carpenter, 2002; Mutuku et al. 2013).

Based on several suggestions from a previous study that there was no relationship between TMT diversity and performance, it was possible that moderating variables were not included in the research model (Carpenter, 2002). Therefore, further tests were carried out by considering moderating variables related to TMT, which were expected to clarify how the diversity of the top management team affected company performance. This study also used a one-year meeting frequency conducted by TMT, as a moderating variable. Furthermore, previous literature explained that more meetings reflected more effective efforts (e.g., focused communication, constructive dialogue, and quality decision-making), in order to improve company performances (Harymawan et al. 2020).

In Model 2 as shown in table 2, when the effectiveness of the TMT meeting (EFEK_DIR) is included in the equation the result remains insignificant with an R^2 value of 44.41% for ROE performance, a R^2 value of 51.88% for ROA performance. In Model 3, when the interaction between DIV_AGE and EFEK_DIR (DIV_AGE * EFEK_DIR) is included in the equation, the regression results show the coefficient value of -1.898 for the impact of DIV_AGE on performance (ROE) with a p-value of 0.046 (p-value <0.05). Similarly, the coefficient value of DIV_AGE * EFEK_DIR on ROE is 1.44 with a p-value of 0.026 (p-value <0.05) and R^2 of 45.12%. Therefore, the change in R^2 from model 2 to 3 was 0.71%. Likewise, the value of the DIV_AGE variable coefficient on performance (ROA) shows the same direction of -0.241 and a p-value of 0.017 (p-value <0.05), and the variable coefficient value of DIV_AGE * EFEK_DIR on ROA is 0.171 with a p-value of 0.011 (p-value <0.05) with R^2 of 53,37%. Therefore, the change in R^2 from model 2 to 3 was 1.49%. The regression results of model 3 show an increase in R^2 compared to model 1 and model 2 , and the regression results for the interaction of the DIV_AGE and EFEK_DIR variables show significant results. The

regression results show that there is a significant effect of the moderator variable on the dependent variable as a pure moderator. Therefore, the H2 hypothesis is accepted and it infers that the effectiveness of board meetings (TMT) moderates the influence of age-related diversity of directors (TMT) on the performance.

The graph of the relationship between bank performance and age diversity of directors with meeting effectiveness, is shown in Figure 1. Based on the results of the regression in model 2 (when age diversity interacted with the effectiveness of meetings), a positive relationship to performance was observed. Therefore, the line shifted higher when the number of meetings were greater, indicating an increase in performance.
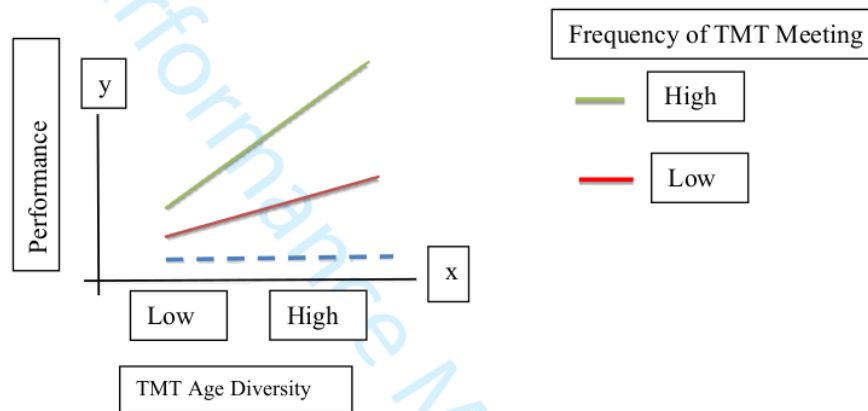
Figure 1. Graphical representation of the relationship between TMT age Diversity and Performance, with Frequency of meeting.

These results supported the upper echelon and resource dependency theories, as well as strongly demonstrate previous studies' suggestion for a moderating variable to examine the relationship between diversity and performance (Carpenter, 2002; Olson et al. 2006). The upper echelon theory stated that the experience, values, and personality of the directors had a major influence on the meeting discussion and decisions, regarding strategy choices (Hambrick & Mason, 1984). Therefore, the results indicated that when TMT groups with different age backgrounds conducted the meeting, they have more opportunities to provide ideas from experiences and knowledges. Furthermore, it was possible for the age diversity of TMT to build wider relationships with external parties, which provides increased opportunities for banking customers. This was found to be in line with resource dependence theory (Pfefer & Salancik,

1978). Although it is undeniable that the diversity of different individual ages causes "Self-esteem", the high intensity of these encounters should be reduced, in order to create better relationship qualities among TMT members. A good top management team relationship also encourage constructive discussions, which generate bright ideas for the company.

By implication, the results show that the interactions between age diversity and the effectiveness of top management meetings have a positive effect on performance. The possible reason for this is that the positive age diversity is capable of generating potential for a better experience and rich knowledge from different age groups, while the negative impact of selfishness due to heterogeneity is reduced through the effective meetings of the directors. The more frequent the meetings of directors of various ages, the increase the directors' effectiveness, and best performance impacting decision is easily attained through collaboration and sharing of knowledge and expertise. The findings of this study support the application of rules on governance and emphasise the importance of diversity in directors' membership and the need for more intensive directors' meetings.

5. Conclusion

The main objective of this study is to explain the relationship between the age-related TMT diversity and performance, and the moderating role of the effectiveness of TMT meetings in weakening the negative influence of TMT diversity on performance. The analysis results using panel data indicate that age diversity, measured by variation coefficient, has no direct effect on performance. The results of the regression model show the moderating role of the effectiveness of TMT meetings on the effect of TMT age diversity on performance in commercial banks in Indonesia.

This research is expected to contribute towards corporate governance, as an additional literature and input for future studies, based on the influence of TMT age diversity on bank performance, as well as the role of meeting effectiveness in moderating the effects. The results of the study have several implications. First, this research provides a deeper understanding of the benefits of director diversity (TMT) to the company's performance based on the effectiveness of board meetings in producing the positive effects that reduce the negative impact of the TMT diversity. Second, this research is useful for regulators as an input in making policies related to membership of corporate organs, especially directors, to support the implementation of better corporate governance in Indonesia. Furthermore, commercial banks in Indonesia should implement good corporate governance, including the implementation of

policies on age diversity. This was due to being empirically confirmed to affect bank performance, through the occurrence of innovative and creative attitudes during discussions in meetings. The research also provided input to the Financial Services Authority (OJK). This was based on being the Indonesian banking regulator that encouraged the application of commercial banks' governance rules into the Financial Services Authority Regulation No. 55/POJK.03/2016, where there was no policy regarding the director diversity. Third, this study is useful to the investors in making consideration regarding the prediction of company performance based on the directors' characteristics in the bank and the need for information on internal activities at TMT, which were often disclosed in the annual report. This was because these activities were confirmed to increase the TMT performance effectiveness, which in turn led to an impact on improving company efficiency.

The limitations of the study include the use of only samples of the banks registered with Bank Indonesia. The subsequent research could use cross-country bank samples, due to each country having a TMT diversity policy that differed in its corporate governance rules. Based on the use of cross-country data, experts were allowed to obtain different results on the same topic. In addition, the research uses age-related diversity variables only. Therefore, further research could consider other types of diversity such as education, functional, or tenure. Furthermore, the study only used the number of TMT meetings in one year as a moderating variable, without considering the quality. This was due to the utilization of secondary data, which were obtained from the annual report of the company. Therefore, further research should utilize the meeting quality obtained from primary data, which considered the TMT intra-personal relationship as a measure of effectiveness (Bang et al., 2010).

Acknowledgments

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Table

Table I.   Means, Standard Deviations and Correlations

Variables	Mean	SD	1	2	3	4	5	6	7	8	9	10	11	12
1. ROE	0.016	0.019	1											
2. ROA	0.11	0.16	0.89***	1										
3. DIV_AGE	0.09	0.04	-0.10	-0.12	1									
4. EFEK_DIR	1.43	0.25	0.27***	0.22***	-0.26***	1								
5. DIV_GEN	0.20	0.19	0.05	0.03	0.13*	-0.06	1							
6. SIZE	13.53	0.70	0.28***	0.29***	-0.08	0.42***	0.13**	1						
7. SIZE_DIR	6.61	2.65	0.27***	0.28***	0.08	0.29***	0.27****	0.85***	1					
8. LIST	0.74	0.43	-0.03	0.04	0.13**	-0.17**	0.11*	0.38***	0.50***	1				
9. LEV	0.72	0.28	0.11	0.18***	0.14**	-0.35***	0.10	0.27***	0.45***	0.68***	1			
10. GOV	0.18	0.38	0.28***	0.29***	-0.21**	0.22***	-0.21**	0.42***	0.18**	0.10	0.07	1		
11. FOREIGN	0.12	0.33	-0.13*	-0.11*	-0.03	-0.08	0.12*	-0.06	-0.10	0.08	-0.04	-0.18**	1	
12. Competition	0.48	0.18	-0.64***	-0.71***	0.10	-0.20**	0.00	-0.27***	-0.28***	0.00	0.25***	-0.20**	0.03	1

Notes: $n = 128$; ***, **, * Significance at the 1%, 5%, 10%, level

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Table II.   The Regression Results of Model 1, 2, and 3. (Hypothesis H1 and H2)

Description	Predict	Var. Dep: PERF= ROE			Var. Dep: PERF = ROA		
		Model 1	Model 2	Model 3	Model 1	Model 2	Model 3
		Coef. (Prob t-stat)			Coef. (Prob t-stat)		
Independent Variable							
DIV_AGE	-	-0.090	-0.091	-1.898	-0.017	-0.003	-0.241
		(0.391)	(0.341)	(0.046**)	(0.471)	(0.487)	(0.017**)
EFEK_DIR	+		0.006	-0.149		-0.0042	-0.022
			(0.498)	(0.056*)		(0.186)	(0.010**)
Interaction							
DIV_AGE*EFEK_DIR	+			1.44			0.171
				(0.026**)			(0.011**)
Control Variable's							
DIV_GEN	+/-	-0.0257	-0.023	-0.029	-0.002	-0.0035	-0.004
		(0.620)	(0.658)	(0.573)	(0.613)	(0.524)	(0.461)
SIZE	+/-	-0.3111	-0.313	0.030	0.0001	0.0004	0.0004
		(0.304)	(0.303)	(0.289)	(0.967)	(0.889)	(0.879)
SIZE_DIR	+/-	0.196	0.019	0.020	0.001	0.0013	0.001
		(0.013**)	(0.017**)	(0.009***)	(0.155)	(0.117)	(0.091*)
LIST	+/-	-0.0425	-0.0417	-0.0479	-0.001	-0.0414	-0.001
		(0.211)	(0.220)	(0.161))	(0.750)	(0.694)	(0.602))
LEV	+/-	-0.0250	-0.0230	-0.220	-0.001	-0.002	-0.002
		(0.624)	(0.673)	(0.687)	(0.833)	(0.639)	(0.644)
GOV	+/-	0.0725	0.072	0.073	0.006	0.007	0.007
		(0.054*)	(0.053*)	(0.053*)	(0.117)	(0.112)	(0.053*)
FOREIGN	+/-	-0.0235	-0.023	-0.0233	-0.003	-0.0034	-0.0233

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	+/-						
Competition		-0.463	-0.462	-0.456	-0.056	-0.0572	-0.456
		(0.534)	(0.529)	(0.539)	(0.451)	(0.451)	(0.539)
		(0.000***)	(0.000***)	(0.000***)	(0.000***)	(0.000***)	(0.000***)
Cons		0.836	0.830	1.062	0.056	0.0595	1.062
		(0.026)	(0.028)	(0.007)	(0.165)	(0.144)	(0.007)
N		228	228	228	228	228	228
R^2		44.24%	44.41%	45.12%	52.49%	51.88%	53.37%
R^2 Change		44.24%	0.17%	0.71%	52.49%	-0.61%	1.49%
Chi2		136.81***	136.69***	140.70***	169.37***	169.82***	140.70***

*** , ** , * Significance at the 1%, 5%, 10%, level

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