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FINANCIAL ECONOMICS | RESEARCH ARTICLE

Dynamic performance of Indonesian public companies: An analysis of financial decision behavior

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Abstract: The purpose of this research is to investigate the effects of financial decision behavior on firm performance of Indonesian public companies using panel data. The dynamic generalized method of moment is utilized in this study. The results show that firm performance is dynamic in nature, which indicates that last year performance affects current performance significantly. Empirical result of financial decision behavior shows that investment, leverage, and dividend per share (DPS) have significant impact on firm performance. Specifically, investment has negative impact on firm performance. Meanwhile leverage has negative effects on return on assets (ROA), but positively affects Tobin's Q. Moreover, DPS positively affects Tobin's Q. This finding suggests that investment decision of Indonesian firms is overinvestment, indicated with higher investment affects firm performance negatively. Similarly with leverage, the finding reveals that Indonesian public companies borrowed external fund more than they required (overleverage). The positive effect of DPS on firm performance implies that dividends payout to



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PUBLIC INTEREST STATEMENT

rm management has an important role to increase firm profitability and maximize shareholders' wealth. Hence, managers should act on behalf of shareholders' interest to enhance firm performance. Generally, the financial performance measures are categorized into the accounting-based and the market-based measures. Firm performance is determined by various factors, of which that the internal and external factors play an important role in determining firm performance. Thus, financial decision behavior; such as investment, financing decision, and dividend policy becomes important role for managers in allocating fund resources. Firms with higher internal fund tend to overinvest in unprofitable investment instead of paying dividend to shareholders. The results of this research show that firm performance is dynamic in nature, indicates that last year performance has impact on current performance. Investment, leverage, and dividend policy becom portant factors that determine firm performance. However, the impacts ar 1 ore on the market performance and less on the accounting performance.









shareholders create good signal to the market, in which manager describes dividend to deliver private information to the market. However, based on the coefficient of financial decision variables, the impact is more on the market performance and less on the accounting performance.

Subjects: Financial Mathematics; Corporate Finance; Investment & Securities

Keywords: Financial decision; dynamic performance; GMM-difference

1. Introduction

This study deals with an important issue in corporate finance, in which we investigate the dynamic firm performance and financial decision behavior. Even though most of prior studies of firm performance and financial decision have been done, but still interesting to be analyzed and discussed, in fact that 1 firm periodically makes three major important financial policies that determine the value of firm. Firm performance is associated with the concepts of productivity, efficiency, and effectiveness of corporate management in utilizing resources optimally (Tan & Wang, 2010). These concepts correlated to the size of the firm: A small firm is more efficient than a large firm due to the former's absence of agency problems, flexibility, and nonhierarchical structure (Halkos & Tzeremes, 2007). Past studies proposed that Indonesia firms had good market performance, which recode 16 e average of Tobin's Q was valued at 1.13% for period 2009 to 2013 (Nikolaus, 2015), and the profitability (return on assets -ROA) of manufacturing firm was valued at 12.69% (Bambang Sudiyatno, Puspitasari, & Kartika, 2012). Hence, financial decision policy plays an important role to enhance firm performance.

The value of firm is determined by investment decision (Fama, 1978), although in perfect capital market investment decision is independent of the financial structure. This is because external funds serve as a perfect replacement for internal capital (Modigliani & Miller, 1958). In contrast, empirical research shows that internal and external capitals do not perfectly substitute each other in the short run, meaning that investment should be dependent on financial factors, so that both investment and financing decisions are interdependent in imperfect capital market, and the debt financing influences value of the firms (Modigliani & Miller, 1963). Additionally, several earlier studies on investment decisions have been widely discussed in relation of the cash flow and investment level to analyze the problems of over- and underinvestment (Fazzari, Hubbard, & Petersen, 1988; Hubbard, 1998; Kaplan & Zingales, 1997), the overinvestment occurs when firms have excess internal funds (Jensen, 1986). Empirical studies of Indonesian firms found that investment has negative effect on firm performance but not significant (Bambang Sudiyatno et al., 2012). Another issue is the global financial crisis impacted the economic and manufacturing firms turn to lower investment and capital market confidence plunged significantly (Djaja, 2009).

Regarding financing decision, the issues occur when companies assess their financial needs, their borrowing capacity and their ability to generate shareholder returns and maximize the firm value. Therefore, I hancing decision and policy to raise financial resources are among very important considerations. The consequence of higher leverage, firm may suffer agency cost and bankruptcy. Therefore, financial leverage and firm performance have negative relationship (Jensen & Meckling, 1976; Myers, 1977). I owever, some researchers argue that 23 hancial leverage and firm performance have positive relation because debt financing implies a commitment on managers to payout more cash, and discipline managers by restricting the amount of free cash flow (FCF) under their control (Jensen, 1986). In Indonesia, the level of leverage is highest for the period 2005–2011, which shows 1 le average debt-to-equity ratio has valued at 57% in various industry sector (Hardiyanto, Achsani, Sembel, & Maulana, 2014).

Lastly, dividend policy issue of firm performance, in which dividend itself having implicit private information and is a signaling device to influence stock price (Bhattacharya, 1979; John & Williams,



1985; Miller & Rock, 1985). Thus, when a firm announces an increasing dividend, it is a sign of good news in the capital market with positive reaction of share price. Therefore, only good performance firms can send signals to the market using dividends. However, dividend policy appears to have a matter in firm behavior, in this case, the issue of why the firm should pay dividends or hold dividend payout is still unresolved. This is due to the fact that many listed companies in Indonesia do not pay dividends regularly. One explanation is that the firm is deferring dividend payments because the firm needs more funds to finance its investment specifically during the financial crisis. In Indonesia, the propensity of the firm to pay dividend has decline over time and dividend life cycle explains well the dividend policy (Leo Indra Wardhana, Tandelilin, Wayan Nuka Lantara, & Junarsin, 2014).

Accordingly, we argue corporate financial decision as important factors affect firm performance. Although most Judies have been conducted in many perspectives, phenomena and empirical evidence, such as studies of corporate finance behavior, equity, leverage, total market share, investment ratio, growth, profitability, size, and corporate governance (Babatunde & Olaniran, 2009; Burca & Batrinca, 2014; Fauzias Mat Nor, Azlan, & Hasimi, 2011; Liow, 2010; Mirza & Javed, 2013; Nikolaus, 2015). These findings provided the mixed results and still inconclusive, Jossibly because they used different measurements, time dimension, and firm effect. Therefore, this study aims to close the gap in the existing literature by analysis the issue of corporate financial ecision behavior and firm performance. Hence, this study proposes to investigate the impact of investment, leverage, and Jvidend per share (DPS) on firm performance.

This study apply the dynamic panel model uses generalized method of moment (GMM)-first difference estimatory of the advanced statistical analysis to overcome the endogeneity issue in corporate finance. The first lagged of firm performance are likely to be endogenous or highly correlated with the dependent variables, so that they are correlated with the error term. Therefore, the diagram least square (OLS) or static panel model estimation method and random effect model) would not be an appropriate method or would be bigs for estimating the model parameters. Thus, it can be used to control for the dynamic nature of lationship between firm performance and financial decision behavior while accounting for other sources of endogeneity in corporate finance research (Wintoki, Linck, & Netter, 2012).

Therefore to provide additional evidence on the impact of financial decision on firm performance, the present audy contributes to the existing literature by providing economic justification for use of dynamic panel GMM estimation for both accounting and market performance are rest of this paper is organized as follows. Section 2 reviews the literature and hypotheses are developed 4 ections 3 and 4 describe the methodology and empirical results, respectively whereas Section 25 ncludes.

2. Literature review

2.1. Investment and firm performance

The relationship between investment and firm performance has been examined by several prominent researchers from underpinning theories of investment (Fama, 1978; Modigliani & Miller, 1958; Tobin, 1969). The Tobin's Q becomes a central theoretical model of investment and provides an empirical framework for analyzing individual firm's financial decisions. It is also a popular proxy for the unobservable investment opportunities based on market value. Fama and Miller (1972) proposed that the market value of a firm is the discounted value of expected future cash flows from all its investment in the present and future; that is, an increase in capital expenditur. It have a positive impact on a firm's market performance. Earlier on, Del Brio, De Miguel, and Pindado (2003) study on 29 vestment and firm value, the result suggests that the positive or negative market reactions to investment (divestment) announcement persist over time. This implies that the increase in firm value is greater for the firm with valuable investment opportunities and when firms divesting is a sign of decrease in value for the firms with valuable investment opportunities.



However, Investment in stock market has been studied by Ahmar et al. (2017) the results found that Sutte indicators are better in predicting stock price movement.

According to overinvestment theory, it proposes that firm with higher FC. 2 and to invest in negative NPV project (Jensen, 1986), and it is more serious to occur for rich firm and firm with higher concentrate ownership (Yu & Li, 2011). Previous several empirical studies indicate a significant and negative relationship between investment and firm performance but insignificant (Sudiyatno & Puspitasari, 2010). Similarly Loof and Heshmati (2008), also found negative and insignificant. Moreover, other studies focused on the effect of investment and firm performance with different measurements. For instance several studies found a positive lationship and significant between firm performance and investment (Grazzi, Jacoby, & Treibich, 2016; Kaplan & Zingales, 1997; Riachi & Schwienbacher, 2015), and others also found investment have lositive impact on firm performance, but its insignificant (Ruzita, Hasimi, Yaacob, & Fauzias, 2010; Ye & Yuan, 2008). Recently, Hashmi, Mirza, and Us Sehar (2016), investigated the effect of investment measures by the capital expenditure on Tobin's Q, and they found that investment positively affects investment opportunities (Tobin's Q) for the manufacturing sectors of Pakistan companies in 2000–2008. Accordingly, crease in the capital expenditure would lead a positive impact on market performance. Hence, this study posits the following hypotheses:

H1a: There positive and significant impact of investment on accounting performance (ROA).

H1bhere is a positive and significant impact of investment on market performance (TOBIN'S Q).

2.2. Leverage and firm performance

The studies of the lifect of leverage on firm performance has been developed by numerous prominent scholars from a broad range of underpinning theory (Miller, 1977; Modigliani & Miller, 1958, 1963), and three others major theories of financial structure decision (Harris & Raviv, 1991; Jensen 18 eckling, 1976; Kraus & Litzenberger, 1973; Myers & Majluf, 1984). Modigliani and Miller (1958) posited that in a perfect capital market, firm value is independent of its capital structure, and implies that the total value of the firm is not affected by ratio of debt. A number of researchers conducted empirical work to show the changes in level of debt that have impact on the total market value of the firm. So that, the firm value reflects a valuation by shareholders, including the value perquisites consumed by manager as the agent of shareholders (Jensen & Meckling, 1976). However, the trade-off theory stated that when the firm has a higher profitability rate, the expected cost of distress would decrease, and the firms will prefer to use debt financing because of their raised leverage, even if it increases the risk of bankruptc, and financial distress (Scott, 1977). The pecking order theory explained the firms are more likely to use the internal funds and prefer debt to equity when external financing is needed, then therefore, the pecking order theory concluded that issuing debt is not for companies with more funds and liquid (Myers & Majluf, 1984).

The clationship between capital structure and firm performance has been investigated by many researchers with mixed results. Earlier empirical studies supported the capital structure theory proposed by Modigliani and Miller (1963), which argued that firm using debt to finance their investment, may increase firm value. Moreover, profitable firm use more debt to solve gency problem between manager and shareholders (Jensen, 1986). Thus, some studies found a positive relationship between financial leverage and firm performance 1. bu-Rub, 2012; Bassey & Inah, 2012; San & Heng, 2011; Zeitun & G.Tian, 2007). In contrast, other studies indicated a significant and negative relationship between firm performance and financial leverage (Onaolapo & Kajola, 2010; Saeedi & Mahmoodi, 2011; Vithessonthi & Tongurai, 2015; Zeitun & Saleh, 2015). Furthermore, similarly with studies proposed by Shahzad, Ali, Ahmad, and Ali (2015), found that leverage negatively affect accounting performance (ROA), and shorterm debt has positive effect on market performance (Tobin's Q). Therefore, based of the pecking order theory and the trade-off theory, this study posits the following hypotheses:



H2a: There is a negative and significant impact of leverage on accounting performance (ROA).

H2blere is a positive and significant impact of leverage on market performance (TOBIN'S Q).

2.3. Dividend policy and firm performance

The relationship between dividend policy and firm performance has received a lot of attention in past studies. Various theories have been proposed by academicians on the principles of dividend policies that have been described as their irrelevant or relevant theory in making financial decision (Deangelo, Deangelo, & Stulz, 2006; Miller & Modigliani, 1961; Stulz, 2000). Miller and Modigliani (1961) stated that dividend policy is irrelevant for the cost of capital, and that the value of the firm is determined by its earning power and risk. The agency theory explained about dividend payment increases firm value (Easterbrook, 1984). He argued that dividend payments may act as one form of bonding cost. The transaction cost theory implies that dividend payment reduces in value because they lead to rising external financial costs. Moreover, firms with insufficient cash flow have greater dependency on external finance, and should maximize shareholders wealth by accepting lower payout policies (Rozeff, 1982). The empirical evidence proposed that tims with a higher FCF should pay more dividends to decrease agency cost (Holder, Langrehr, & Hexter, 1998; Mollah, Keasey, & Short, 2002). In addition, relating to dividend payment the 1 ms paying dividend are significantly having greater cash flows (Berk, 2006).

The signaling hypothesis is consistent with Lintner (1956), suggests that managers are typically concerned with dividend stability and believe that the market has a good response to a stable dividend policy. Therefore, by paying dividend, the level of dividend changes; thus, the information is released to the market as a good signal and the price volatility reduced, and it influences the share price. The relationship between dividend policy and firm performance have been addressed (Amidu, 2007; Charles, Joseph, & Sang, 2014; Murekefu & Ouma, 2012; Uwuigbe, Jafaru, & Ajayi, 2012) found at dividend policy has positive relation on firm performance. In addition, the value of the signal depends on the level of information asymmetries in the market. In conclusion, it can be argued that information is important to reveal whether the dividend signal should be sent, and its effect on prices as well and the firm value. Thus, this study posits the following hypotheses:

H3a: There is a positive and significant impact of DPS on accounting performance (ROA).

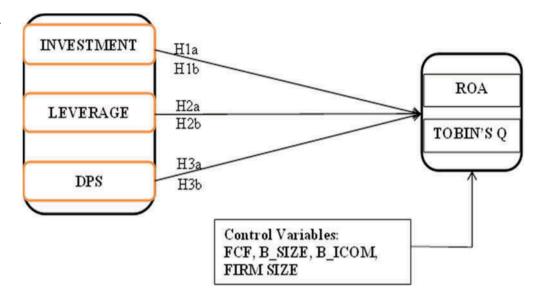
H3b: There is a positive and significant impact of DPS on market performance (TOBIN'S Q).

3. Conceptual framework

This study aims to investigate the impact of financial decision behavior on firm performance of Indonesia public companies. There are three important financial decision that determine firm performance, namely, investment, leverage, and dividend policy. Various theories that support e relationship between financial decision factors (investment, leverage, and dividend policy) have been described in Section 2, such as investment theory, agency theory, pecking order theory, trade-off theory, and signaling theory. Financial performance is an important key indicator for the firm survival and an essential indicator for measuring the overall corporate performance; thus firm performance measurements are commonly classified into the accounting-based and market-based measures (Abu-Rub, 2012; Bhagat & Black, 2002; Fauzias Mat Nor et al., 2011; Khan, adeem, Islam, Salman, & Gill, 2016; Suta, 2006). Thus, this study focuses on ROA as the accounting performance and TOBIN'S Q as the market performance.

The Inceptual framework of this study develops to linking the independent and dependent variable. Thus, the investment, leverage, and DPS uses as independent variables, then FCF, board size (B_SIZE), board independent commissioners (B_ICOM) and firm size as control variables. Furthermore, the potheses are developed based on the theoretical background and empirical studies discussed in

Figure 1. Research framework.



the literature review. Therefore, this study proposes three sets of the hypotheses towards achieving the research objectives ased on the theoretical underpinnings, the research framework is derived, indicating the direction of the hypothesized relationships between the main constructs (financial decision and firm performance). The research framework of this study is presented in Figure 1

4. Methodology

To investigate the impact of financial decision behavior on firm performance, this study uses yearly of 212 nonfinancial sted firms for the period from 2003 to 2013. The data are gathered from the annual report of companies include book value of total assets and total debt, net income, market value of equity, DPS, and other financial data used in this study also corporate board structure. The data are retrieved from the latest version 2.1 of Datastream and annual report of companies. Therefore, this study has annual observation of over than 11 years period per company, producing a balanced panel data of 2332 unit observations for data analysis.

This study used numerical variables to measures dependent and independent variables. The performance defined as a bivariate dependent variable by two measurements, namely accounting-base performance and market-based performance (ROA and TOBIN'S Q). ROA is defined as the ratio of net profit divided by total assets. TOBIN'S Q is the ratio of market value of equity plus book value of the total debt divided by the book value of total assets each firm and years (Fauzias Mat Nor et al., 2011; Velnampy, Nimalthasan, & Kalaiarasi, 2014; Zeitun & Saleh, 2015). The independent variables of financial decision behavior are investment, capital structure and dividend policy. Investment is presented as the exponential growth rate of total asset of the firm i, at the time t, calculated as log natural of total asset at the time/year t divided by total assets at previous year (t-1) is et al.; Ruzita et al., 2010). Capital structure is a combination of debt and equity and the level of it debt is referred to as leverage ratio. This study defined leverage as the ratio of total debt to total asset (Saeedi & Mahmoodi, 2011; Zeitun & Saleh, 2015). Meanwhile, the DP as used to measure dividend policy in this study. DPS is the total amount of dividends paid to the total of share outstanding (Charles et al., 2014; Velnampy et al., 2014).

Furthermore, the F, board size (B_SIZE), board independent commissioners (B_ICOM) and sales are used as control variables. The FCF is the ratio of the total of (EBIT and depreciation) minus the total of (interest, tax, and dividend, livided by book value of total asset (Alias, Rahim, Nor, & Yaacob, 2012; Ruzita et al., 2010; Wang, 2010). Corporate governance measured by board size and



board of commissioners independent. Board size (B_SIZE) is total number of directors have been employed by (Guo & Kga, 2012; Shahzad et al., 2015; Wintoki et al., 2012; Zeitun, 2014) and BOC Independent (B_ICOM) is measured by calculating the proportion of independent commissioners with respect to the total commissaries as measured by (Jaffar, Mardinah, & Ahmad, 2013; Magdalena, 2012; Zabri, Ahmad, & Wah, 2016). Meanwhile, 1 m size is the natural logarithms of the total sales (Margaritis & Psillaki, 2010; Alias, Yaacob, Rahim, & Nor, 2016; Wang, 2010).

In order to discover relationship between independent and dependent variable, the dynamic GMM estimator is utilized in this study. The first lagged of firm performance are likely to be endogenous or highly correlated with the dependent variables, so that they are correlated with the error term. Therefore, the OLS or static model estimation method would not be an appropriate method or would be bia 1 r estimating the model parameters. Following the extension of the panel data analysis presented by Baltagi (2008), the multiple regression model applied in this study is the pth order lagged variable model with the following general equation;

$$Y_{it} = \beta_0 + \sum_{i=1}^{p} \beta_j \times Y_{i,t-j} + \sum_{k=1}^{K} \delta_k \times X_{k,it} + u_{it}$$
(1)

where the dependent variable is each of the variables firm performance (ROA and TOBIN'S Q), and the independent variables are all defined determinant variables. So we have the following two general equations, for t > p, where the integer p will be selected so that the lagged variables models fit the data. The empirical equation as follows:

$$\begin{aligned} \mathsf{ROA}_{\mathsf{it}} &= \beta_0 + \beta_1 \mathsf{ROA}(-1) + \ldots + \beta_p \mathsf{ROA}(-p) + \delta_1 \mathsf{INV}_{it} + \delta_2 \mathsf{LEV}_{it} \\ &+ \delta_3 \mathsf{DPS}_{\mathsf{it}} + \delta_4 \mathsf{FCF}_{\mathsf{it}} + \delta_5 \mathsf{B_SIZE}_{\mathsf{it}} + \delta_6 \mathsf{B_ICOM}_{\mathsf{it}} + \delta_7 \mathsf{F_SIZE} + \varepsilon_{\mathsf{it}} \end{aligned} \tag{2}$$

$$\begin{aligned} \text{TOBINS_Q}_{it} &= \beta_0 + \beta_1 \text{TOBINS_Q}(-1) + ... + \beta_p \text{TOBINS_Q}(-p) \\ &+ \delta_1 \text{INV}_{it} + \delta_2 \text{LEV}_{it} + \delta_3 DPS_{it} + \delta_4 \text{FCF}_{it} + \delta_5 B_\text{SIZE}_{it} \\ &+ \delta_6 B_\text{ICOM}_{it} + \delta_7 F_\text{SIZE}_{it} + \varepsilon_{it} \end{aligned} \tag{3}$$

Urthermore, note that the regression of dynamic panel model in Equations (2 and 3) in fact is an additive model of Y, and a single numerical determinant, such as Y(-1) INV, LEV, and DPS as independent variables and FCF B_SIZE, B_ICOM, F_SIZE as control variables.

5. Discussion of results

The summary of descriptive statistical analysis of the variables used in this research is based on the final sample of 212 companies. The descriptive indicators' result is presented in Table 1, the results show that the mean of firm performance for both ROA and TOBIN'S Q are 3.8% and 101%, respectively. TOBIN'S Q has greater standard deviation of 62.7% compared to ROA with a standard deviation of 12.7%. This value indicates that the data of return on assets (ROA) has the lowest fluctuation for each company compared to others. TOBIN'S Q has the highest fluctuation compared to financial decision variables. On average, the investment is about 9% with standard deviation is 23.59%. Leverage has average is about 27.52% with standard deviation 20.79% and DPS has average about 968 rupiah and with standard deviation 3.254.

Table 2 presents the correlation between firm performance (ROA and DBIN'S Q) and the financial decision (INV, LEV, and DPS) and other variables (B_SIZE, B_ICOM and F_SIZE). In Table 5.2 shows that accounting performance reported to be positive correlation with the investment, DPS, FCF, board 15ze, and firm size but negatively correlated with leverage. Moreover, TOBIN'S Q are reported to be positive correlated with DPS, FCF, board size, and firm size but investment, leverage, and independent commissioner's shows insignificant correlation.

The finding of dynamic GMM-Difference models of the impact of financial decision and control variable on firm performance are reported in Table 3. There are four diagnostic tests that should be addressed in this study to evaluate the most appropriate estimations in dynamic GMM estimation,

Table 1. Descri	ptive statistic of	Table 1. Descriptive statistic of the numerical research variables	esearch variable	sa					
Variables	Mean	Median	Max	Min	Std. Dev.	Skewness	Kurtosis	ЯГ	Obs.
ROA	0.0379	0.0313	0.9917	9986.0-	0.1270	-0.5958	16.8420	18,755.3	2332
TOBIN'S Q	1.0147	0.8275	3.2280	0.1012	0.6268	1.2579	4.1694	747.824	2332
INV	0.0893	0.0817	1.3715	-2.0067	0.2359	-0.9570	15.5266	15,602.8	2332
LEV	0.2752	0.2438	7986.0	0.0002	0.2079	0.6930	2.9166	187.348	2332
DPS	0.0968	0.0000	5.6823	0.0000	0.3254	8.5995	110.8409	1,158,759	2332
FCF	0.0712	0.0650	1.9703	-1.7842	0.1823	0.5834	45.6401	176,799	2332
B_SIZE	4.3568	0000'4	13.0000	1.0000	1.8716	1.2604	4.6983	897.646	2332
B_ICOM	0.3027	0088.0	0.5000	0.2000	0.0841	0.6723	3.3780	189.533	2332
F_SIZE	20.6137	20.7748	25.9905	0.0000	2.3516	-3.6946	33.9780	98,549.7	2332

Notes: ROA is Return on asset, TOBIN'S Q is market value of equity plus book value of total debt over book value of total assets, LEV is leverage, DPS is dividend per share, FCF is free cash flow, B_SIZE is board size, B_ICOM is board independent commissioners and F_SIZE is firm size.



Table 2. The correlation signs	of independent variables with f	irm performance
Independent variables	ROA	TOBIN'S Q
1 V	+	+/ins
LEV	-	+/ins
DPS	+	+
FCF	+	+
B_SIZE	+	+
B_ICOM	+/ins	+/ins
F_SIZE	+	+

Notes: The sign \pm is positive or negative significant, ins is insignificant, ROA is Return on Asset, INV is investment measured by natural logarithm of growth total assets, LEV is leverage measured by total debt to total assets, DPS is dividend per share, FCF is free cash flow, B_SIZE is board size, B_ICOM is board of independent commissioners and F_SIZE is firm size.

	ROA	TOBIN'S G
Independent variables	Second-Lag	First-Lag
ROA(-1)	0.1309	
	(6.800)***	
ROA(-2)	0.0214	
	(1.500)**	
FOBIN'S Q(−1)		0.3050
		(9.096)***
NV	-0.0228	-0.1694
	(-2.965)***	(-4.998)***
LEV	-0.0509	0.4087
	(-3.585)***	(5.235)***
DPS DPS	0.0448	0.1871
	(3.627)***	(4.446)***
FCF	0.4872	-0.0186
	(15.737)***	-0.4720
B_SIZE	0.0004	0.0106
	0.7793	0.8902
B_ICOM	0.0021	0.1967
	0.8612	2.113)**
F_SIZE	0.0020	0.0010
	(0.096)*	0.2566
Wald F-test	(116.42)***	(33.68)***
Arellano-Bond test:		
AR(1) (p value)	0.0000	0.0000
AR(2) (p value)	0.7367	0.0485
Hansen test (p value)	0.1519	0.0545
Number of instrument	51	61
Observation	1696	1908

Note bust standard error in parentheses *, **, *** significant at 10%, 5%, and 1% level, except p value for Hansen test and Arellano-Bond test.



namely: first ¹²nd second-order autocorrelation of residuals (AR(1) and AR(2)), Hansen test ³⁰ statistic) of overidentifying restriction and Wald test. The results of the specification test show that the Hansen *J*-statistic of overidentifying restriction of the two models has the *p* values of 0.1519 and 0.054 respectively. So that it can be concluded that both model has a valid instruments or overidentifying restriction are satisfied and appropriate model of ROA and TOBINS_Q, this mean the instruments used in the GMM-Difference models are not correlated with the residuals.

The result of the Wald test, which is a test of joint significance, show that all coefficient e jointly equal to zero (e). Moreover, the Arellano-Bond test suggested that the residual were not affected by the second-order serial autocorrelation for both models, it show e values of AR(2) are 0.7666 and 0.0485, respectively. This means that we accept the null hypothesis of no second-order autocorrelation.

The results in Table 3 show that each of the lagged-dependent variables ROA(-1) and ROA(-2) and DBINS_Q (-1) is positive and significantly impact the current accounting and market performance (ROA and TOBINS_Q). This indicates that the dynamic modeling is a right specification for firm performance. The positive and significant lagged firm performance proposes that the data support the lagged effect, and firm performance is dynamic in nature. This implies that firms produced higher return on asset and firm management has the ability to use its assets efficiently and effectively to generate firm profit in previous year. Similarly, the market performance last year provides information to investors of market value of equity to investors, and encourages them to invest in the company.

1 his study is consistent with the earlier study presented by (Zeitun & Saleh, 2015).

1 westment has negative and significant impact on firm performance, suggest that Indonesian public companies with higher percentage of investment have lower firm 1 erformance (ROA and TOBINS_Q). The result contradicts the theoretical prediction that investment has a positive impact on firm performance. Additionally, based on the theoretical concept of investment, it suggests that when firms have higher investment or increase growth rate of total assets, it would lead firms to increase firm profitability, in which they would use their assets optimally and take only safe investment. However, in this case, this result indicates that increased investment leads to decreased accounting performance, and this implies a symptom of overinvestment problem. In this finding is in line with earlier studies (Ruzita et al., 2010; Sudiyatno & Puspitasari, 2010), who revealed that investment has negative effect on firm performance but insignificant.

Leverage has negative and significant effects on ROA but positive and significantly affects TOBINS_Q. The negative relationship between leverage and ROA gegests that companies with a higher leverage leads to a lower ROA. This implies that firm has overleverage, which in turn affects their performance negatively. This finding supports the theoretical prediction at leverage has negative effect on firm performance. Therefore, profitable firm prefer on internal financing rather than external fund to finance their investment (Myers & Majluf, 1984). This findings are consistent with the past studies such as (Abu-Rub, 2012; Olokoyo, 2013; Ruzita et al., 2010, 1 hahzad et al., 2015; Vithessonthi & Tongurai, 2015; Zeitun & Saleh, 2015) among others, so that this finding supported by pecking order theory.

Moreover, dividend policy 1PS) has positive and significant impact on firm performance (ROA and TOBINS_Q) of Indonesian public companies. The data support the hypothesis that DPS has positive effects on firm performance. This positive relationship indicates that the higher firm performance encourage firms to payout dividends to its shareholders. Nevertheless, firm with higher FCL hould pay more dividends to the reduced agency cost as one possible solution to solve it problem of collective actions that tend to lead to undermonitoring of the firm and its management (Easterbrook, 1984; Holder et al., 1998; Mollah et al., 2002). This finding is in line with earlier studies (Imran, 2011; Jensen, 1986; Ruzita et al., 2010).



In addition, FCF has positive and significant effect on ROA but it was insignificant effect on TOBINS Q. The positive relations suggested that firm with higher FCF lead to increase accounting firm performance specifically for large and profitable firms, in which the firm lore stable net earnings as well as firm has ability to pay large dividends to shareholders. With respect to corporate governance structure measured by Board Size (B SIZE) and Board Independent Commissioners (B ICOM) have positive effect on ROA but insignificant. However, ICOM has positive and significant impact on market performance (TOBINS_Q); this implies that the positive role of independent commissioners is also consistent with theoretical prediction. Since corporate governance of Indonesia firms adopted dual board system (BOD and BOC), so that the ratio of independent commissioners has positive sign to market performance, higher number of independent commissioner leads to increase market performance. Firm size has positive and significant relationship on ROA. The positive relation suggested that higher firm size leads to increase market performance.

6. Conclusion

8 nis study investigates the effect of financial decision behavior on firm performance of 212 Indonesian listed companies using dynamic panel GMM estimation method during the period 2003–2013 he results based on the GMM-difference estimation find that firm performance is dynamic in nature, indicating that the lagged firm performance is significant. This implies that the previous year's firm performance affects the current year performance. The findings of financial decision behavior indicate that financial decision behavior of Indonesian public companies seems to be important factors in determining firm performance, where the investment, capital structure and dividend policy affect financial firm performance significantly. The negative coefficient of investment suggests that the findings are consistent with the theoretical intuition of over-investment, in which managers overinvest lead to decrease firm performance. Similarly to financing decision, Indonesian firms was overleverage, indicates that the negative impact of leverage on ROA due to agency problem between manager and shareholders, thus leads to the decrease firm performance. However, the interesting finding reveals that leverage is positive and significant on market performance (TOBINS Q). It indicates that debt improves the Indonesian market performance, which may not reflect on their profitability. Moreover, the positive relation between DPS and TOBINS Q shows that firm ayout dividends to shareholders create good signal to the market, which is manager's uses dividend to express their private information about firm prospect of the future earning to the market. In term of theoretical explanation, the impact of financial decision variables of financial firm performance for all the period is consistent with the theory. However, based on the coefficient of financial decision variables, the impact is more on the market performance and less on the accounting performance.

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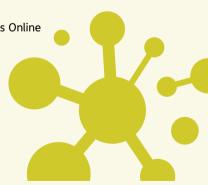
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