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Information on Cash Flow Statements and Stock Return

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Abstract

This research aims to test and analyze information from the cash flow statement on the share return. The cash flow intended is from operating, financing, and investing activities. Meanwhile, the shares utilized belong to the infrastructure, utility, and telecommunication companies listed on the Indonesian capital market between 2018 and 2021. Because this study uses the change in three cash flows, the secondary data from 2017 to 2021 based on the firm annual reports and the stock price at the end of these years are employed. Additionally, the t-statistics and their probability provided by a multiple regression model to statistically examine the hypotheses proposed are applied. Finally, this study concludes that the higher the cash flow from investing activities, the higher the stock return. However, the positive change in the financing cash flow tends to reduce this return. Meanwhile, this return is not affected by the cash flow from operating activities.

Keywords: Cash Flow Statement, Financing Activities, Investing Activities, Stock Return

1. Introduction

Fundamentally, stock price movement in the capital market is determined by the information from financial reports (Hartono, 2017; Herawati & Putra, 2018). This situation exists when the capital market is inefficient in semi-strong shape in the annual financial report publication (Azis et al., 2020; Hartono, 2017; Julyana et al., 2022; Njoroge et al., 2021; Pratama & Asyik, 2017). In this context, the market reaction is statistically influenced by the financial ratios: liquidity, solvability (Azis et al., 2020), and asset turnover (Pratama & Asyik, 2017). These financial ratios come from the calculation based on the income statement and balance sheet accounts, including accounts related to the change in retained earnings (Gitman & Zutter, 2015).

Besides the income statement, balance sheet, and retained earnings, another financial report component is the cash flow statement. This statement calculates the cash at the end of the period. The calculation utilizes the profits after tax, depreciation during the period, and the change in balance sheet accounts at the end of the period. Also, this

statement is classified by the cash flow from three activities: operating, investing, and financing (Gitman & Zutter, 2015).

The research results testing the association between cash flow from the operating activities and stock return are inconstant. For instance, Bala (2017) and Muniroh and Yulianti (2021) display no relationship. In their study, Oroud et al. (2017), Dang et al. (2018), Utomo and Pamungkas (2018), Kasmiati and Sentosa (2019), and Kipngetich et al. (2021) exhibit a positive impact. Itan and Riana (2021) also confirm this sign after investigating the relationship between this cash flow and firm value based on Q-Tobin. Unfortunately, Ni et al. (2019) and Tunio et al. (2020) demonstrate a negative influence.

Similarly, this inconsistency happens in the relationship between cash flow from investment activities and stock return. For example, Bala (2017) affirms no effect. Moreover, Tunio et al. (2020) exhibit a positive impact. Unfortunately, Oroud et al. (2017), Utomo and Pamungkas (2018), Kasmiati and Sentosa (2019), Ni et al. (2019), Itan and Riana (2021), and Muniroh and Yulianti (2021) display a negative influence. This sign is confirmed by Itan and Riana (2021) after investigating the association between this cash flow and Q-Tobin as the proxy of firm value.

Also, different results exist when scholars try to prove the relationship between cash flow from financing activities and stock return. For instance, Bala (2017), Oroud et al. (2017), and Muniroh and Yulianti (2021) display no association. Meanwhile, Utomo and Pamungkas (2018), Kasmiati and Sentosa (2019), Ni et al. (2019), and Tunio et al. (2020) exhibit a positive impact. Unfortunately, Itan and Riana (2021) demonstrate a negative influence after investigating the relationship between this cash flow and firm value measured by Q-Tobin.

Based on these different results, this study examines the effect of cash flow from these three activities on stock return by employing the size and years as the control variable by taking the infrastructure, utility, and telecommunication companies listed on the Indonesian capital market. Indeed, according to Hanafi (2016), public investors expect this positive return in the capital market because of their wealth creation.

2. Literature Review and Hypothesis Development

2.1. The cash flow change from the operating activities and stock return

Cash flow from operating activities is cash inflow and outflow directly associated with the revenue from services and expenses related to the service delivered to the consumer. Specifically, the related accounts in financial statements are net profit after taxes, depreciation, current assets, and short-term liabilities (Gitman & Zutter, 2015). A positive change in this cash flow demonstrates that a firm can get additional net funds based on its operating activities. Therefore, public investors reward this situation by buying stock, elevating the stock price. This situation is confirmed by Oroud et al. (2017), Utomo and Pamungkas (2018), Kasmiati and Sentosa (2019), and Kipngetich et al. (2021), exhibiting a positive impact of this cash flow on share return. Based on this explanation, the first hypothesis is declared as follows.

H₁: The more significant the change in the cash flow from the operating activities, the bigger the stock return.

2.2. The cash flow change from the investing activities and stock return

Cash flow from investing activities is cash inflow and outflow directly associated with purchasing and selling fixed assets. Besides, investing stocks in other firms includes this activity. A decrease in this cash flow indicates the fund utilization of investing activities. (Gitman & Zutter, 2015). Public investors prefer these actions because they can generate profits leading to a positive difference in stock price (Kasmiati & Santosa, 2019). This circumstance is confirmed by Oroud et al. (2017), Utomo and Pamungkas (2018), Kasmiati and Sentosa (2019), Ni et al. (2019), Itan and Riana (2021), and Muniroh and Yulianti (2021), demonstrating a negative influence of this cash flow change on stock return. Based on this explanation, the second hypothesis is declared as follows.

H₂: The less significant the change in the cash flow from the investing activities, the bigger the stock return

2.3. The cash flow change from the financing activities and stock return

Cash flow from financing activities is cash inflow and outflow directly associated with long-term liabilities and equity transactions (Gitman & Zutter, 2015). The increase in this cash flow indicates that the company can accumulate external funds from the bank or public investor through the right issue. It demonstrates that the firm is still trusted by its creditors and shareholders; therefore, a positive price change happens. This situation is confirmed by Utomo and Pamungkas (2018), Kasmiati and Sentosa (2019), Ni et al. (2019), and Tunio et al. (2020), displaying a positive tendency of this cash flow change on stock return. Based on this explanation, the third hypothesis is declared as follows.

H₃: The more significant the change in the cash flow from the financing activities, the larger the stock return

3. Research Methods

3.1. Variable Definition

This research employs stock return as the dependent variable by dividing the stock price at the end of the year of the current period by the stock price at the previous period (RET). It refers to Kasmiati and Santosa (2019). Furthermore, this change in the cash flow from the operating, investing, and financing activities, symbolized by D_CFOA, D_CFIA, and D_CFFA, is utilized as three primary variables. Meanwhile, the firm size is measured by total revenue by denoting Hashmi (2020) as the control variable. Regarding the utilization of change in three cash flows, we adjust this revenue with a similar measurement. Also, the dummy of the years used is based on Ni et al. (2019) as the control variable.

3.2. Population and Sample

The population comes from the infrastructure, utility, and telecommunication companies continually listed on the Indonesia capital market between 2018 and 2021, with the market price at the end of December 2017. Based on this requirement, its population size (PS) is 52. Furthermore, the representing samples (RS) are calculated by the Slovin formula with an error margin of 10%. According to Suliyanto (2009), the technique is displayed in the subsequent first equation:

$$RS = \frac{PS}{1 + (PS.em^2)}$$
 (Equation 1)

Once utilizing this formula, the representative sample (RS) = $\frac{52}{1+(52 \times 10\% \times 10\%)} = \frac{52}{1.52} = 34.21 \approx 34$ companies. After that, they are taken by the simple random sampling method, and their name can be seen in Table 1.

Table 1: The name of the companies performing as the samples

ruble 1. The name of the companies performing as the samples				
No.	Code	The name of the company		
1.	PGAS	Pertamina Gas Negara		
2.	POWR	Cikarang Listrindo		
3.	RAJA	Rukun Raharja		
4.	TGRA	Terregra Asia Energy		
5.	CASS	Cardig Aero Services		
6.	CMNP	Citra Marga Nusaphala Persada		
7.	JSMR	Jasa Marga (Persero)		
8.	KARW	ICTSI Jasa Prima		
9.	META	Nusantara Infrastructure		
10.	EXCL	XL Axiata		
11.	FREN	Smartfren Telecom		
12.	ISAT	Indosat		
13.	TLKM	Telkom Indonesia (Persero)		
14.	BIRD	Blue Bird		

Table 1: The name of the companies performing as the samples

No. Code The name of the company			
No.	Code	The name of the company	
15.	BULL	Buana Lintas Lautan	
16.	GIAA	Garuda Indonesia (Persero)	
17.	HITS	Humpuss Intermoda Transportasi	
18.	LEAD	Logindo Samudramakmur	
19.	LRNA	Eka Sari Lorena Transport	
20.	MBSS	Mitrabahtera Segara Sejati	
21.	MIRA	Mitra International Resources	
22.	NELY	Pelayaran Nelly Dwi Putri	
23.	PTIS	Indo Straits	
24.	SMDU	Sidomulyo Selaras	
25.	SHIP	Sillo Maritime Perdana	
26.	SOCI	Soechi Lines	
27.	TAMU	Pelayaran Tamarin Samudra	
28.	TAXI	Express Transindo Utama	
29.	TPMA	Trans Power Marine	
30.	BALI	Bali Towerindo Sentra	
31.	BUKK	Bukaka Teknik Utama	
32.	CENT	Centratama Telekomunikasi Indonesia	
33.	TBIG	Tower Bersama Infrastructure	
34.	TOWR	Sarana Menara Nusantara	

3.3. Method to analyze the data

This study employs the regression model with pooling data based on variable position defined in section 3.1. With this model, the data used are cross-sectional and time-series (Gujarati et al., 2019). Therefore, the model with the variables can be seen in the following second equation.

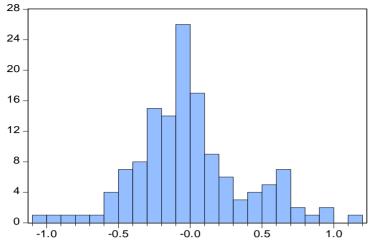
$$RET_{it} = \beta_0 + \beta_1 D_CFOA_{it} + \beta_2 D_CFIA_{it} + \beta_3 D_CFFA_{it} + \beta_4 DREV_{it} + \beta_5 D2019 + \beta_6 D2020 + \beta_7 D2021 + \epsilon_{it} \dots (2)$$

As an outstanding empirical model, the regression must meet classical assumptions: normality of residual, free from heteroskedasticity, multicollinearity, and autocorrelation. Furthermore, the Jarque-Bera statistic is used to examine the normality. Meanwhile, the Glesjer and variance inflation factor detect heteroskedasticity and multicollinearity. Finally, the Durbin-Watson statistic is employed to verify the autocorrelation (Gujarati et al., 2019).

4. Result And Discussion

4.1. The testing result of classical assumptions

Figure 1 displays the normality test result based on the Jarque-Bera statistic. In this figure, the probability of this statistic is 0.090471. Because this value is above the 5% significance level, the residuals are normally distributed, meeting the required normality assumption.



Series: Residuals Sample 1 136 Observations 136 Mean -2.37e-17 Median -0.034715 Maximum 1.125684 Minimum -1.013256 Std. Dev. 0.377860 0.389630 Skewness Kurtosis 3.490689 4.805450 Jarque-Bera Probability 0.090471

Figure 1: The normality test result based on the Jarque-Bera statistic

Source: The output of E-Views 6

Table 2 demonstrates the Glesjer heteroskedasticity testing result with the Chi-Square (7) probability based on Obs*R-square of 0.2208. This value is more significant than the 5% significance level. Therefore, by mentioning Gujarati et al. (2019), heteroskedasticity does not occur, achieving the required non-heteroskedasticity assumption.

Table 2: The Heteroskedasticity Testing Result based on Glejser

F-statistic	1.368262	Probability of F-statistic (7,128)	0.2242
Obs*R-squared	9.467987	Probability of Chi-Square(7)	0.2208
Scaled explained SS	10.75365	Probability of Chi-Square(7)	0.1497

Test Equation:

Dependent Variable: ARESID

Method: Least Squares Date: 01/23/23 Time: 14:05

Sample: 1 136

Included observations: 136

Variable	Coefficient	Std. Error	t-Statistic	Probability	
С	0.053044	0.086163	0.615619	0.5392	
D_CFOA	0.002068	0.002411	0.857936	0.3925	
D_CFIA	-0.000926	0.001425	-0.650066	0.5168	
D_CFFA	0.002069	0.001995	1.037286	0.3016	
D_REV	0.173625	0.067212	2.583252	0.0109	
D2019	0.048002	0.060644	0.791541	0.4301	
D2020	0.085198	0.062071	1.372571	0.1723	
D2021	0.062834	0.061342	1.024321	0.3076	

Source: The output of E-Views 6

Table 3 presents the multicollinearity detection result. Variance inflation factor (VIF) for the primary variables: D_CFOA, D_CFIA, and D_CFFA, and control variables: D_REV, D2019, D2020 and D2021 are below 10: 1.030, 1.041, 1.061, 1.080, 1.526, 1.599, and 1.562. Because of this circumstance, according to Gujarati et al. (2019), this model does not contain multicollinearity.

Table 3: The result of multicollinearity detection

Independent	Collinearity Statistics			
Variable	Tolerance	VIF		
D_CFOA	0.971	1.030		
D_CFIA	0.961	1.041		
D_CFFA	0.943	1.061		
D_REV	0.926	1.080		
D2019	0.655	1.526		
D2020	0.625	1.599		
D2021	0.640	1.562		

Source: The output of IBM SPSS 19

The autocorrelation testing result demonstrates the Durbin-Watson statistic of 2.126493 (see the fourth table). Because this value is between 1.5 and 2.5 as the rule of thumb, as explained by Kenton (2021), autocorrelation is unavailable.

3.4. The estimation result of the regression model

Table 4 exhibits the estimation result of the regression model. In this table, the probability of t-statistic for D_CFOA is higher than the 5% significance level: 0.7633. Hence, the first hypothesis is rejected: the cash flow from operating activities does not affect the stock return. The second and third hypotheses are recognized because the t-statistical probability for D_CFIA and D_CFFA is below the 5% significance level: 0.0034 and 0.0160. However, the regression coefficient is different: positive and negative. Therefore, the cash flow from investing and financing activities positively and negatively affect stock returns.

Table 4: The Estimation Result of Regression Model: The Influence of Cash Flow from Operating, Investing, and Financing Activities on Stock Return

Method: Least Squares Date: 01/23/23 Time: 14:03

Sample: 1 136

Included observations: 136

Variable	Coefficient	Std. Error	t-Statistic	Probability
С	0.683273	0.134895	5.065217	0.0000
D_CFOA	-0.001139	0.003774	-0.301774	0.7633
D_CFIA	0.006662	0.002231	2.985971	0.0034
D_CFFA	-0.007626	0.003123	-2.441826	0.0160
D_REV	0.238360	0.105226	2.265225	0.0252
D2019	0.135419	0.094943	1.426317	0.1562
D2020	0.126231	0.097178	1.298971	0.1963
D2021	0.194504	0.096036	2.025324	0.0449
R-squared	0.167832	Mean dependent var		1.053866
Adjusted R-squared	0.122323	SD dependent	var	0.414215
SE of regression	0.388055	Akaike info criterion		1.001682
Sum squared residual	19.27507	Schwarz criterion		1.173014
Log-likelihood	-60.11436	Hannan-Quinn criterion.		1.071307
F-statistic	3.687880	Durbin-Watson statistic		2.126493
Probability (F-statistic)	0.001155			

Source: The output of E-Views 6

3.5. Discussion

The first hypothesis testing outcome shows that cash flow from operating activities does not affect the stock return. Statistically, the inability of this cash flow change to affect this return is due to the slightest standard deviation:

8.9822914 (see Table 5): this change has the most minor value variation. Besides, it is supported by the bottommost mean towards 0: 0.456900 (see Table 5): the low differences cover the enormous differences; therefore, the overall change in these extra operating funds is insignificant. Based on this evidence, this study supports Bala (2017), utilizing financial investment banks listed on the Khartoum stock exchange, and Muniroh and Yulianti (2021), employing the food and beverage sub-sector companies listed on the Indonesian capital market.

Table 5: Mean and standard deviation for each primary variable measurement: D_CFOA, D_CFIA, and D_CFFA

Variable	N	Mean	Std. Deviation
D_CFOA	136	0.456900	8.9822914
D_CFIA	136	2.571942	15.2713094
D_CFFA	136	0.879503	11.0142962

Source: The output of IBM SPSS 19

The second hypothesis testing outcome demonstrates that the change in cash flow from investing activities positively influences stock return, which contradicts the proposed hypothesis. The growth in investing cash flow means reducing investment-related actions. This situation happens because the Covid-19 pandemic period is involved in this study: 2020-2021. During this pandemic, managers carefully spend money on investments. Indeed, public investors appreciate this effort by buying the stocks, leading to an upsurge in the stock price. Based on this fact, this study confirms Tunio et al. (2020).

The third hypothesis testing outcome demonstrates that cash flow from financing activities influences stock return negatively, which is in line with the proposed hypothesis. Although crossing the pandemic time, the company can still get trusted by creditors or public shareholders. Profits contributing to retained earnings, especially from telecommunication firms, add funding sources, growing the overall stock returns. Based on this fact, this study confirms Utomo and Pamungkas (2018), Kasmiati and Sentosa (2019), Ni et al. (2019), and Tunio et al. (2020).

4. Conclusion

As a part of the financial report, the information on the cash flow statement detects the final cash position based on the source and utilization. This flow comes from operational, investment, and financial activities. This study aims to prove the impact of three flows on stock return in the infrastructure, utilization, and telecommunication industry companies. Based on the statistical examination, this study effectively demonstrates that operating cash flow does not influence the stock return. Meanwhile, investment and financial cash flow affect this return positively and negatively, respectively.

This research has some boundaries. Firstly, it only involves three sources of cash flow affecting return factors. This situation can be improved by combining these factors with four primary financial ratios in one model. Secondly, it only covers the infrastructure, utility, and telecommunication companies and four years as the time observation. Indeed, the following scholars utilize non-financial companies as the population and samples within ten years.

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