THE EFFECT OF PROFITABILITY, LEVERAGE AND INFLATION ON STOCK RETURNS

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Abstract

This research was conducted at Building Construction Sub-Sector Companies Listed on the Indonesia Stock Exchange for the 2017-2021 period. The purpose of this study was to determine the effect of profitability, leverage and inflation on stock returns. The sample in this study were 8 Building Construction Sub-Sector Companies Listed on the Indonesia Stock Exchange (IDX) for the 2017-2021 period, this research method uses descriptive and verification methods. Profitability, leverage and inflation variables as independent variables and stock returns as the dependent variable. Data were analyzed using Eviews 9.0. Based on the results of the F test, profitability, leverage and inflation simultaneously affect stock returns. The results of the t test show that profitability (ROA) has a positive and significant effect on stock returns, leverage (DER) has an insignificant positive effect on stock returns, inflation has a negative and insignificant effect on stock returns.

Keywords: Profitability (ROA), Leverage (DER), Inflation and Stock Return.

Abstrak

Penelitian ini dilakukan pada Perusahaan Sub Sektor Konstruksi Bangunan yang Terdaftar di Bursa Efek Indonesia periode 2017-2021. Tujuan penelitian ini adalah untuk mengetahui pengaruh profitabilitas, leverage dan inflasi terhadap return saham. Sampel dalam penelitian ini sebanyak 8 Perusahaan Sub Sektor Konstruksi Bangunan yang Terdaftar di Bursa Efek Indonesia (BEI) periode 2017-2021, metode penelitian ini menggunakan metode deskriptif dan verifikatif. Variabel profitabilitas, leverage dan inflasi sebagai variabel bebas dan return saham sebagai variabel terikat. Data dianalisis menggunakan Eviews 9.0. Berdasarkan hasil uji F, profitabilitas, leverage dan inflasi secara simultan berpengaruh terhadap return saham. Hasil uji t menunjukkan profitabilitas (ROA) berpengaruh positif dan signifikan terhadap return saham, leverage (DER) berpengaruh positif tidak signifikan terhadap return saham, inflasi berpengaruh negatif dan tidak signifikan terhadap return saham.

Keywords: Profitabilitas (ROA), Leverage (DER), Inflasi dan Return Saham.

INTRODUCTION

The Capital Market has an important role for a country's economy because the capital market has two functions, namely as a means for business funding and as a means for companies to obtain funds from the capital community or investors. Property, real estate and building construction companies have bright prospects in the future considering the potential for a population that continues to grow. The increasing number of developments the housing in sector. apartments, shopping centers, and office buildings that make investors interested in investing their funds so that the prospects for trade stocks are expected to continue to rise (Sudarsono, 2014).

Table 1 Average Stock Return of Companies
in the Building Construction Sub-Sector
2017 2021

2017-2021						
Cala	Stock Return					
Code	2017	2018	2019	2020	2021	2022
ACST	-0.1277	-0.3679	-0.3762	-0.5464	-0.5227	-0.0243
ADHI	-0.0938	-0.1592	-0.2587	0.3064	-0.4169	-0.0205
NRCA	0.1515	0.0158	-0.0052	-0.0156	-0.2328	0.0397
PBSA	0.3566	-0.5971	-0.0071	-0.1500	0.2269	-0.0282
PTPP	-0.3071	-0.3163	-0.1219	0.1767	-0.4692	-0.0133
SSIA	0.1866	-0.0291	0.3100	-0.1221	-0.1583	-0.0083
TOTL	-0.1373	-0.1515	-0.2214	-0.1514	-0.1459	-0.0064
WSKT	-0 1333	-0.2398	-0.1161	-0.0303	-0 5590	0.0078

Source : data processed 2023

From table 1 in on can known that *return* share sub sector companies construction building for 6 years final fluctuating. This is because of existence increase and decrease in company profits added with condition economy that is not stable and less Good because of existence pandemic *Covid-19* in Indonesia.

According to research conducted (Suarniti & Widnyana, 2021), *Return on Asset* (ROA) has a positive and significant effect on stock *returns*. Meanwhile, according to(Iradianty, 2018) *Return On Asset* (ROA) affects stock *returns*.

According to Zakaria (2017), *the Debt* to Equity Ratio (DER) does not affect stock returns. Meanwhile, according to(Suarniti & Widnyana, 2021) Debt to Equity Ratio (DER) has a negative and significant effect on stock returns.

According to Haryani (2018) stated inflation influential negative and significant to *return* shares . Meanwhile , according to

(Agung et al., 2020) inflation influential negative No significant to *return* share .

LITERATURE REVIEW Signal Theory

According to Brigham and Houston (2011) a signal is an action taken by a company to provide investors with instructions on how management views the company's prospects. Information is an important element for investors and business people because information essentially presents information, notes or descriptions for past, current and future conditions for the survival of a company and how the market effects it. Complete, relevant, accurate and timely information is needed by investors in the capital market as an analytical tool for making investment decisions (Suarniti & Widnyana, 2021).

Stock Return

According to Samsul (2016), return is stated income in presentation from initial capital investment. The income in question is income investment in the form of benefits gained from activity buy and sell shares, can in the form of profit or capital gain and loss or capital loss **Profitability**

Profitability describes the company's ability to earn profit through all existing capabilities and resources such as sales activities, cash, capital, number of employees, number of branches and so on (Harahap, 2013). Profitability describes the company's ability to earn profit through all existing capabilities and resources such as sales activities, cash, capital, number of employees, number of branches and so on (Harahap, 2013).

Leverage

According to Atmaja (2008) said the leverage ratio shows how much debt is used by the company. The higher DER shows the greater proportion of debt to equity so that it reflects the relatively high risk of the company and the risk that must be borne by investors will also be higher. In the end, investors will avoid shares of companies that have high DER.

Inflation

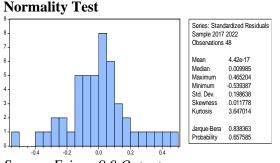
According to Tandelilin (2010), inflation is a tendency for overall product prices to

increase. High inflation reduces the level of real income obtained by investors from investments.

METHODOLOGY

In this study, the population is the building construction sub-sector companies listed on the IDX in 2017-2022, namely 18 companies. The sample was taken based on several criteria, namely (1) Building construction subsector companies listed on the Indonesia Stock Exchange for the 2017-2022 period. (2) Building construction sub-sector companies that have complete financial data during the 2017-2022 period. Based on these criteria, the research sample is 8 companies x 6 years = 48financial reports of building construction subsector companies.

RESEARCH RESULT



Source: Eviews 9.0 Output Figure 1 Normality Test Results

From the results of Figure 1 above, it can be seen that Prob > 0.05 which is 0.657585. This means that the data is normally distributed or H_o can be accepted while H_a is rejected.

Multicollinearity Test

Tab	ole 2 Multic	ollinearity 7	Test Results
	X1	X2	X3
X1	1,000,000	-0.531658	0.190240
X2	-0.531658	1,000,000	-0.132243
X3	0.190240	-0.132243	1,000,000
-	D · 0 0		

Source: Eviews 9.0 Output

The standard correlation value is 0.08. Based on the table above, the correlation value between X1, X2 and X3 <0.08, so there is no multicollinearity or Ho is accepted and Ha is rejected.

Heteroscedasticity Test

Table 3 Heteroscedasticity Test Results 1177 .

Heteroskedasticity I	est: White	
F-statistic	1.237313 Prob. F(9,38)	0.3022
Obs *R-squared	10.87841 Chi-Sq Prob. (9)	0.2841
Scaled explained SS	12.09858 Chi-Sq Prob. (9)	0.2078
Source: Eviews 9	0.0 Output	

Based on table 3 above, the value of *Prob. Chi Square* > 0.05 is 0.2841, so there is no heteroscedasticity so that Ha can be accepted and Ho is rejected.

Autocorrelation Test

]	Table 4	Autocorrelatio	on Test Rea	sults

		Mean dependen	ıt
R-squared	0.077113	variable	4.87E-17
Adj . R-squared	-0.032755	SD dependent var	0.198627
		Akaike information	n
SE of regression	0.201854	criterion	-0.246077
Sum square	ed		
residual	1.711288	Black criterion	-0.012177
		Hannan-Quinn crite	r
Log likelihood	11.90586	•	-0.157686
F-statistic	0.701869	Durbin-Watson stat	2.031114
Prob(F-statistic)	0.625148		
Source: Eview	s 9.0 Outp	ut	

Source: Eviews 9.0 Output

Based on table 4 above, the durbin watson value is 2.031114. With 3 variables X and a sample of 48 data, dl < dw < 4-du, namely 1.4064 < 2.031114 < 2.3411, there is no autocorrelation and Ho is accepted and Ha is rejected.

Panel Data Regression Model Selection Test

Chow Test Results						
Cross-section fixed eff	fects test					
Effects Test	Statistics	df	Prob.			
Cross-section F	1.051989	(7.37)	0.4130			
Cross-section Chi-sq.	8.712418	7	0.2740			
Source: Eviews 9.	Source: Eviews 9.0 Output					

Based on table 5 above, the results of the chow test show that the F test Significance P value > 0.05 is 0.2740. So Ho is accepted Ha is rejected which means the Common Effect model is better than the Fixed Effect model.

Test Summ	nary	Chi-Sq. Statist	ic Chi-Se	q. df Prob.
Random section	cros	^{s-} 4.491457	3	0.2131

Source: Eviews 9.0 Output

Based on the table above, the results of the Hausman test show that P > 0.05, namely 0.2131 > 0.05, so Ho is accepted, Ha is rejected, so the *random effect model* is selected.

Breusch-Pagan LM Test Results				
	Hypothesis	s Testing		
	Cross sectio	on Time	Both	
Breusch				
Pagan	0.396784	4.173902	4.570685	
	(0.5288)	(0.0411)	(0.3325)	
Honda	-0.629908	2.043013	0.999216	
		(0.0205)	(0.1588)	
King-Wu	-0.629908	2.043013	1.153773	
		(0.0205)	(0.1243)	
Standardized				
Honda	-0.313862	3.092557	-1.462038	
		(0.0010)		
Standardized				
King-Wu	-0.313862	3.092557	-1.233491	

		(0.0010)	
Gourieriux	,		
et al.*			4.173902
			(< 0.10)
*Mixed chi-	square asy	mptotic critical	values:
1%	7.289		
5%	4.321		

<u>10%</u> 2,952 *Source: Eviews* 9.0 *Output*

From the test results above, it can be seen that *the Breusch-Pagan Prob. value* is 0.3325 > 0.05, so Ho is accepted, Ha is rejected, or in other words, the most suitable model is the *common effect model*.

chow test and the Breusch Pagan LM test, the common effect was chosen as the best model to answer the hypothesis in the study. Therefore, the estimation of the common effect model in this study is as follows.

Common Effect Model Estimates

	Common Ljj	eei woodel Estili	lates	
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.221917	0.088042	-2.520573	0.0154
X1?	1.029755	0.388786	2.648642	0.0112
X2?	0.002170	0.017431	0.124493	0.9015
X3?	-2.967620	2.366350	-1.254092	0.2164
R-squared	0.223055	Mean dependent var		-0.116882
Adjusted R-squared	0.170082	S.D. dependent var		0.225343
S.E. of regression	0.205287	Akaike info criterion		-0.249163
Sum squared resid	1.854277	Schwarz crit	erion	-0.093229
Log likelihood	9.979903	Hannan-Quinn criter .		-0.190235
F-statistic	4.210691	Durbin-Watson stat		2.748074
Prob(F-statistic)	0.010558			
E: 000 /				

Source: Eviews 9.0 Output

From the estimation results in table 8, the following equation can be formed:

$$\begin{aligned} \text{Yit} &= \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \varepsilon it \\ \text{Yit} &= -0.221917 + 1.029755 + 0.002170 - \\ 2.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 + 1.029755 + 0.002170 - \\ 3.0675200 - \\ 3.0675200 + 0.002170 - \\ 3.0675200 - \\ 3.067500 - \\ 3.0675200 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.067500 - \\ 3.$$

2.967620 +*ɛit*

Coefficient of Determination

Based on table 8, it is known that the *adjusted R-Square value* is obtained at 0.170082. then it can be concluded that the percentage of profitability (X1), *leverage* (X2), inflation (X3) on stock *returns* (Y) is 17%. While the remaining 83% is influenced by other variables outside the model.

Simultaneous Test (F Test)

Based on table 8, the F _{count result} is 4.210691 with Sig 0.010558. The F _{table value} for a sample of 48 data is 2.81. Therefore, the probability of Sig. 0.010558 <0.05 and F _{count} 4.210691 > F _{table} 2.81, then the hypothesis Ho is rejected and Ha is accepted. This means that profitability, *leverage* and inflation have a simultaneous effect on stock *returns*, especially in Building Construction Sub-Sector companies listed on the Indonesia Stock Exchange (IDX) for the 2017-2022 period.

Partial Test (t-Test)

Partial hypothesis testing for profitability (X1) on stock *returns* (Y) in the t table produced a significant value of 0.0112 and a calculated t value

of 2.648642. The t table value for a sample of 48 data was 1.68. The significant value of 0.0112 <0.05 and the calculated t value of 2.648642> t table 1.68, then the hypothesis H0 is rejected and Ha is accepted, namely profitability has a positive and significant effect on stock *returns* of building construction sub-sector companies.

The partial hypothesis test for *leverage* (X2) on stock *returns* (Y) produced a significant value of 0.9015 and a calculated t value of 0.124493. The t table value for a sample of 48 data was 1.68. The significant value of 0.9015> 0.05 and the calculated t value of 0.124493 <t table 1.68, then the hypothesis H0 is accepted and Ha is rejected, namely *leverage* has a positive but insignificant effect on stock *returns* of construction sub-sector companies.

The partial hypothesis test for inflation (X3) on stock *returns* (Y) produced a significant value of 0.2164 and a calculated t value of -1.254092. The t table value for a sample of 48 data was 1.68. The significant value of 0.2164>0.05 and the calculated t value of -1.254092 < t table 1.68, then the hypothesis H0 is accepted and Ha is rejected, namely inflation has a negative and insignificant effect on the stock *returns* of companies in the building construction sub-sector.

DISCUSSION

The Influence of Profitability on Stock *Returns*

The first hypothesis states that profitability is calculated using Return On Assets (ROA) has a positive and significant effect on stock returns of construction and building subsector companies listed on the Indonesia Stock Exchange (IDX) in 2017-2022. Based on the results of the multiple regression test, the coefficient value obtained was t count 2.648642 > t table 1.68 with a significance value of 0.0112 < 0.05 so that H1 is accepted. The results of the partial research analysis state that Profitability (ROA) has a positive and significant effect on stock returns of building construction sub-sector companies listed on the Indonesia Stock Exchange (IDX) in 2017-2022.

The Effect of Leverage on Stock Returns

The second hypothesis states that *leverage* calculated using *the Debt To Equity Ratio* (DER) has a positive and significant effect on

stock *returns* of building construction subsector companies listed on the Indonesia Stock Exchange (IDX) in 2017-2022. Based on the results of the multiple regression test, the coefficient value was obtained as t count 0.124493 <t table 1.68 with a significance value of 0.9015> 0.05 so that H2 was rejected. The results of the partial research analysis stated that *Leverage* (DER) has a nonsignificant positive effect on stock *returns* of building construction sub-sector companies listed on the Indonesia Stock Exchange (IDX) in 2017-2022.

The Effect of Inflation on Stock *Returns*

The third hypothesis states that inflation taken from the Central Statistics Agency (BPS) has a negative and significant effect on stock returns of building construction sub-sector companies listed on the Indonesia Stock Exchange (IDX) in 2017-2022. Based on the results of the multiple regression test, the coefficient value obtained was t count -1.254092 < t table 1.68 with a significance value of 0.2164 > 0.05 so that H3 is accepted. The results of the partial research analysis state that inflation has no significant negative stock returns effect on of building construction sub-sector companies listed on the Indonesia Stock Exchange (IDX) in 2017-2022.

The Influence of Profitability, *Leverage* and Inflation on Stock *Returns*

The fourth hypothesis states that profitability (ROA), leverage (DER) and inflation have a joint effect on stock returns of building construction sub-sector companies listed on the Indonesia Stock Exchange (IDX) in 2017-2022. Based on the results of the multiple regression test, the coefficient value obtained was f count 4.210691> f table 2.81 with a significance value of prob Sig. 0.010553 <0.05 so that H4 is accepted. The results of this research analysis state that profitability (ROA), leverage (DER) and inflation have a joint effect on stock returns of building construction sub-sector companies listed on the Indonesia Stock Exchange (IDX) in 2017-2022

CONCLUSION

Based on the results of the research and discussion, it can be concluded as follows: (1) Profitability (ROA) has a positive and significant effect on stock returns of building construction sub-sector companies listed on the IDX in 2017-2022; (2) Leverage (DER) has a positive and insignificant effect on stock returns of building construction sub-sector companies listed on the IDX in 2017-2022; (3) Inflation has a negative and insignificant effect on stock returns of building construction sub-sector companies listed on the IDX in 2017-2022; and (4) Profitability (ROA), Leverage (DER) and Inflation have a joint effect on stock returns of building construction sub-sector companies listed on the IDX in 2017-2022.

IMPLICATIONS

The implication of this study is that investors should consider ROA as an important indicator in investing in building construction companies, while companies need to focus on improving their profitability. Although DER is not significant individually, debt management is still important, and companies should monitor the impact of inflation. Further research can expand the scope of variables for a more comprehensive understanding, including a more in-depth analysis of debt management in building construction companies.

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