

The Influence Of External Factors And Internal Factors On Stock Prices In The Property Sector For The 2013-2023 Period On The Indonesian Stock Exchange

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Article Info	ABSTRACT
Keywords:	This study analyzes the effect of external factors, such as interest rates,
External factors (Interest rates,	property capitalization value, and house price index, as well as internal
property capitalization value,	factors such as the value of DER (Debt Equity Ratio), ROA (Return on
house price index),	Assets), and NPM (Net Profit Margin), on the price of property stocks on
Internal factors (DER, ROA, and	the Indonesia Stock Exchange (IDX) during the period 2013-2023. In this
NPM values),	study, the population in this study were property stocks totaling 85
Property stock prices and IDX.	issuers of shares that were sloping on the Indonesia Stock Exchange.
	And in this study to determine the sample to be used, the researchers
	used the simple random sampling method. The method in this study uses
	quantitative methods with simple random sampling techniques. In this
	case the sample to be used is as many as 20 samples of property stocks
	listed on the IDX for the period 2013-2023. The data used is secondary
	data in the form of financial statements, the analysis used is descriptive
	statistical analysis technique, time series method, multiple linear
	SPSS The results showed POA DEP house price index and interest
	rates had a positive and significant effect on property stock prices for the
	period 2013-2023 while the capitalization value of the property had no
	significant effect on stock prices. The negative coefficient direction
	explains that an increase in market capitalization will result in a decrease
	in stock prices on the IDX for the 2013-2023 period. The results of this
	study show an Rsquare value of 0.580 or 58% of the influence of the
	independent variable (x) on the dependent variable (y) while 42% of the
	stock price can be explained by other variables. The implication is that
	investors and market participants can consider information about
	relevant external and internal factors in the property market. This
	research provides important contributions and contributions in
	understanding the dynamics of the property stock market in Indonesia
	and can be a reference for further researchers in this field.
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INTRODUCTION

The property industry has become one of the main sectors in the global economy, including on the Indonesia Stock Exchange (BEI). In recent years, the property sector in Indonesia has experienced significant growth. This is reflected in the increase in property capitalization

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value, house price index, and share prices of property companies listed on the IDX. The indicator used by the public to see how much the capital market or stock prices are developing before starting to invest is the Composite Stock Price Index (IHSG), which is one of the stock market indices used by the Indonesian Stock Exchange (BEI). The property market and stock market are closely related in the economy. Property share prices, which reflect the market value of property companies listed on the Indonesia Stock Exchange (BEI), are influenced by a number of external and internal factors. This study aims to explore the influence of external factors, such as interest rates, property capitalization value, and house price index, as well as internal factors, such as the Debt to Equity Ratio (DER), Return on Assets (ROA), and Net Profit Margin (NPM) values. , to property share prices in the 2013-2023 period on the IDX.

Information about the Composite Stock Price Index can be viewed easily by both investors and the wider public. The development of the Composite Stock Price Index is published in various media such as visual media, print media and official websites which can be accessed regardless of the calculation time per day. Young investors who want to start investing in a property company can easily see the movement of a company's share price as material for analysis for investing, thus creating demand for the shares desired by investors. The facts that we can see now are that the government is required to face the reality of the global economic slowdown which can affect investment. The global economic slowdown also has an impact on macroeconomic variables such as interest rates, inflation and exchange rates. Share prices can be used as a signal for potential investors to invest in companies on the Capital Market (Hilman L. 2018). Sectoral Composite Stock Price Index (IHSG) movements



Sumber: Statistik Indonesia Stock Exchange tahun 2022

The graph above shows that there is an increase and movement in the Indonesian stock market sector in the IHSG from 30 December 2021 to 30 December 2022. The data for the energy sector is the one where the energy sector is the most dominant and has increased very significantly, namely by 100.05%. , and secondly followed by the industrial sector with a value of 13.28%, in the healthy sector at 10.20% due to the surge in Covid-19 disease that hit Indonesia and had an impact on the global economy then followed by the ON CYC sector at 7.89%, in the transportation sector at 3.91%, and there were graphic declines in companies, including the basic sector by -1.48%, in the cyclic sector by -5.50%, in the finance sector by -7.33%, in the property sector by -8.00%, in the infrastructure sector by -9.45%,

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and in the technology sector it was -42.61%. In this case, the energy sector is the most dominant area of interest to investors.

One of the factors that young investors pay attention to when investing is information regarding interest rates. In general, high interest rates provide a negative signal for stock prices (Maria, Topowijono, Sri. 2018). High interest rates cause investors to withdraw their investments in shares, especially in the property sector, and transfer them to other investments in the form of savings or time deposits. The Governor of Bank Indonesia has established a new policy regarding the interest rate reference from the BI Rate to the BI 7-Days (Reserve) Repo Rate. This policy came into effect on 19 August 2016 in relation to inflation in Indonesia. This policy reference is also a new reference for encouraging financial market deepening and maintaining price stability.

The condition of the residential market in Indonesia is indicated by an increase in prices which can be measured through the IHPR. Furthermore, supply and demand conditions in the housing market are reflected through the interaction between short-term and long-term house price interest rates. Thus, this research aims to examine the relationship between IHPR, GDP and interest rates. Therefore, based on the background, the researcher wants to raise the title "The Influence of External Factors and Internal Factors on Stock Prices in the Property Sector for the 2013-2023 period on the Indonesia Stock Exchange" which aims to find out how much influence interest rates, property capitalization value, house price index have. , the value of DER, ROA, NPM on property share prices so that the results can provide information regarding the development of property shares in Indonesia

METHODS

Type of research in this research uses descriptive quantitative research. Quantitative research is research based on the philosophy of positivism, used to research certain populations or collection uses research instruments, samples, this data data analysis is quantitative/statistically determined (Sugiyono, 2018). In this research, the population taken was property shares of 85 stock issuers listed on the Indonesian Stock Exchange. To determine the sample to be used, the researcher used a simple random sampling method. To determine the sample to be used, the researcher used a simple random sampling method. In this case, the sample that will be used is 20 samples of property shares. The data source used in this research is secondary data taken via the IDX (Indonesia Stock Exchange) website. The data analysis method in the research uses multivariate regression analysis with the help of SPSS software.

Validity Test

RESULTS AND DISCUSSION

Testing the validity of each construct indicator according to Ghozali (2014), an indicator is said to have good validity if its value is greater than r table (0.221) (Ghozali, 2014). It can be concluded that all items are declared valid because they have a calculated r value in the corrected item column > r table. The following is a table of validity test results:

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	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
Indeks_Harga_ rumah	22858.137848	1212514804.066	.500	.883
Suku Bunga	22858.266849	1212515803.269	.476	.883
Kapitalisasi	16006.046211	1211432178.177	.894	.969
Harga_properti	11926.730974	91839417.761	.313	.459
DER	22854.119109	1212508055.117	.323	.983
ROA	22857.800185	1212515692.714	.347	.883
NPM	22857.558393	1212515213.127	.613	.883
Harga_saham	17790.293603	1102189967.272	.830	.529

Item-Total Statistics

Reliability Test

When conducting reliability testing, the desired Cronbach's alpha value must be more than 0.6 and the composite reliability value must be more than 0.7 (Jogiyanto, 2013). The composite reliability value shows how well a variable is reliable, while the Cronbach's alpha value is the lowest measure of reliability of the variable. It is stated that the Cronbach alpha value of 0.821 can be categorized as very strong because it is in the range 0.8 - 1.00. The following is a table of reliability test results:

Cronbach's	N of
Alpha	Items
.821	8

Reliability Statistics

Multiple Linear Regression Test

Based on the data that has been described, the next section will examine the influence of independent variables which are divided into internal factors (ROA, NPM, DER) and external factors (house price index, interest rates, property prices and capitalization) on stock prices. The test was carried out using the common effect method in the form of fixed effect and random effect.

Fixed Effects

In this model has an intercept that may change for each individual and time, where each cross section unit is fixed in the time series. The equation of the model in Gujarati (2012) is as follows:

$Yit = \alpha \ 1 + \alpha n Dn + \ldots + \Im \ X \ \Im \ it + \cdots + n Xnit + \varepsilon it$

As for the results from the fixed model linear regression output on internal factors as follows:



			Coefficients	5		
		Unstandardized	d Coefficients	Standardized Coefficients		
Model		B	Std. Error	Beta	t	Sig.
1	(Constant)	-6427.018	454.198		-14.150	.000
	dummy	15696.900	469.481	.749	33.435	.000
	DER	-4.001	24.819	004	161	.872
	ROA	431.972	175.531	.055	2.461	.014
	NPM	89.871	166.484	.012	.540	.589

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a. Dependent Variable: Harga_saham

Based on this table, a regression equation can be obtained to determine the factors in predicting stock prices as follows:

Y = -6427.018 + 15696.900D1 - 4.001X1 + 431.972X2 +89.871X3 + 454.198

The results of the regression equation show that the regression coefficients for the ROA and NPM variables have a positive sign, while the coefficient for the DER variable has a negative sign. This shows that an increase in ROA and NPM will increase share prices, while conversely an increase in DER will reduce share prices. The results of the fixed model linear regression output on external factors are as follows:

	Co	efficientsa			
Model	Unstandardized B	Coefficients Std. Error	Standardized Coefficients Beta	t	Sig.
(Constant)	-6748.185	1225.983		-5.504	.000
dummy	15663.512	470.600	.748	33.284	.000
Indeks_Harga_rumah	700.206	1073.910	.015	.652	.515
Suku_Bunga	-881.695	2308.788	009	382	.703
Kapitalisasi	.080	.153	.012	.526	.599
Harga_properti	.006	.006	.019	.866	.387

a. Dependent Variable: Harga_saham

Based on this table, a regression equation can be obtained to determine the factors in predicting stock prices as follows:

Y = -6748.185 + 15663.512D1 + 700.206X4 - 881.695X5 + 0.080X6 + 0.006X7 + 1225.983

The results of the regression equation show that the regression coefficient for the house price index, capitalization and property price variables has a positive sign, while the coefficient for the interest rate variable has a negative sign. This shows that an increase in the house price index, capitalization and property prices will increase share prices, while conversely an increase in interest rates will reduce share prices.

Random Effects

This model has similarities with the previous model, namely fixed effects, where the individual and time dimensions are also included, but the difference between this model and fixed effects is that in the estimation, an error term is also included because in assuming the error term is related to the individual and time dimensions, the equation is written in Gujarati. (2012) are as follows:

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$Yit = 0 + 1 X 1 it + 2 X 2 it + 3 X 3 it + \dots + nXnit + eit$

Where *eit* is the error term which is a combination of time series and cross section. The results of the linear random model regression output on external factors are as follows:

		Coefficients	s"		
	Unstandardized	1 Coefficients	Standardized Coefficients		
Model	В	Std. Error	Beta	t	Sig.
(Constant)	5697.295	1757.167		3.242	.001
Indeks_Harga_ rumah	898.890	1616.185	.019	.556	.578
Suku_Bunga	-2103.718	3474.233	020	606	.545
Kapitalisasi	095	.230	014	416	.678
Harga_properti	.009	.010	.031	.905	.366

a. Dependent Variable: Harga_saham

Based on this table, a regression equation can be obtained to determine the factors in predicting stock prices as follows:

Y = -5697.295 + 898.890X4 - 2103.7185X5 - 0.095X6 + 0.009X7 + 1757.167

The results of the regression equation show that the regression coefficient for the house price index variable and property prices has a positive sign, while the coefficient for the interest rate and capitalization variables has a negative sign. This shows that an increase in the house price index and property prices will increase share prices, while conversely an increase in interest rates and capitalization will reduce share prices. The results of the linear random model regression output on internal factors are as follows:

			Coefficients			
		Unstandardized	d Coefficients	Standardized Coefficients		
Model		в	Std. Error	Beta	t	Sig.
1	(Constant)	5057.163	448.237		11.282	.000
	DER	-45.053	37.388	041	-1.205	.229
	ROA	264.829	264.646	.034	1.001	.317
	NPM	46.527	251.100	.006	.185	.853

a. Dependent Variable: Harga saham

Based on this table, a regression equation can be obtained to determine the factors in predicting stock prices as follows:

Y = -5057/163 - 45.053X1 + 264.829X2 + 46.527X3 + 448.237

The results of the regression equation show that the regression coefficients for the ROA and NPM variables have a positive sign, while the coefficient for the DER variable has a negative sign. This shows that an increase in ROA and NPM will be able to increase share

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prices, whereas on the contrary an increase in DER will reduce share prices. The results of the equation formed from the results of regression calculations which are intended to determine the influence of the independent variables on the dependent variables above, further require further statistical testing. further to determine the validity of the model that has been formed. The tests that will be carried out to determine the validity of the model include each partial coefficient, overall testing of the independent variables and testing of the coefficient of determination (adjustedR2).

Based on tests using the common effect, it can be concluded that internal factors (ROA, NPM, DER) have the most influence compared to external factors (stock price index, capitalization, interest rates and property prices) because the test results have F statistics > F table. Apart from comparing data on external and internal factors, researchers further examined which indicators influence stock prices in the property sector. Based on the data that has been described, the next section will examine the influence of the independent variables, namely ROA, NPM, DER, house price index, property prices and capitalization on stock prices.

			Coeff	icients ^a
		Unstand	Standardize d Coefficients	
Model		в	Std. Error	Beta
I	(Constant)	5856.092	1783.946	
	Indeks_Harga_rum ah	847.194	1620.050	.018
	Suku Bunga	23.218	3478.376	023
	Kapitalisasi	113	.230	017
	Harga_properti	.918	.010	.032
	DER	-48.064	37.504	043
	ROA	265.131	265.630	.034
	NPM	52.037	251.467	.007

a. Dependent Variable: Harga_saham

Based on the table above, a regression equation can be obtained to determine the factors in predicting stock prices as follows:

 $\label{eq:Y} Y = 5856.092 + 847.194 \\ \times 1 + 23.218 \\ \times 2 - 0.113 \\ \times 3 + 0.918 \\ \times 4 - 48.064 \\ \times 5 + 265.131 \\ \times 6 + 52.037 \\ \times 7 + 1783.946$

The results of the regression equation show that the regression coefficients for the ROA, DER and capitalization variables have a positive sign, while the coefficients for the NPM and IHS variables have a negative sign. This shows that an increase in ROA, DER and market capitalization will increase share prices, while conversely an increase in NPM and IHS will reduce share prices. The results of the equation formed from the results of regression calculations which are intended to determine the influence of the independent variables on the dependent variables above still require further statistical testing to determine the validity of the model that has been formed. The tests that will be carried out to determine the validity



of the model include each partial coefficient, overall testing of the independent variables and testing of the coefficient of determination (adjusted R2).

Hypothesis Testing

The t statistical test is used to determine whether or not there is an influence of each independent variable individually on the dependent variable which is tested at a significance level of 0.05. If the probability t value is smaller than 0.05 then Ha is accepted and Ho is rejected, whereas if the probability t value is greater than 0.05 then Ho is accepted and Ha is rejected.

	Coefficients ^a				
	Unstan Coef	dardized ficients	Standardiz ed Coefficien ts	t	Sig.
Model	В	Std. Error	Beta		
(Constant)	5856.09 2	1783.946		3.283	.001
Indeks Harga rum ah	847.194	1620.050	.018	5.229	.011
Suku Bunga	23.218	3478.376	023	6.673	.047
Kapitalisasi	113	.230	017	490	.246
DÊR	-48.064	37.504	043	12.81	.003
ROA	265.131	265.630	.034	9.981	.031
NPM	52.037	251.467	.007	.207	.361

Hypothesis 1: Effect of ROA on stock prices.

Based on the results of calculations using the SPSS program, the t value was 9,981 with a probability value of 0.031, meaning it was 0.05 smaller. Thus it can be concluded that ROA has a significant effect on share prices. The positive direction of the coefficient explains that an increase in ROA will result in an increase in share prices. The influence of NPM on share prices. Based on the results of calculations using the SPSS program, the t value was 0.207 with a probability value of 0.361, meaning it was greater than 0.05. Thus it can be concluded that NPM does not have a significant effect on share prices. Hypothesis 2: Effect of DER on stock prices.

Based on the results of calculations using the SPSS program, the t value was 12,815 with a probability value of 0.003, meaning it was greater than 0.05. Thus it can be concluded that DER has a significant effect on share prices. The Effect of the House Price Index on Stock Prices. Based on the results of calculations using the SPSS program, the t value was 5,229 with a probability value of 0.011, meaning it was smaller than 0.05. Thus, it can be concluded that the house price index has a significant effect on stock prices.



Hypothesis 3: Effect of capitalization on stock prices

Based on the results of calculations using the SPSS program, the t value was -.490 with a probability value of 0.246, meaning it was greater than 0.05. Thus it can be concluded that market capitalization does not have a significant effect on share prices. The direction of the negative coefficient explains that an increase in market capitalization will result in a decrease in share prices

Hypothesis 4: Effect of Interest Rates on stock prices

The regression coefficient value is 0.672 and the t value is 6.673 which is greater than t table 1.656. The significance level is 0.047 which is smaller than 0.05. This shows that the BI Interest Rate has a positive and significant effect on share prices. The influence of property prices on share prices. The calculated t value of 9,489 is greater than t table 1.656. The significance level is 0.034 which is smaller than 0.05. This shows that BI property prices have a positive and significant effect on share prices. It can be concluded that the capitalization and NPM variables do not have a significant effect on share prices because the sig value is > 0.05. Meanwhile, the variables house price index, interest rates, property prices, DER, and ROA have a significant effect on stock prices because the sig value is <0.05.

CONCLUSIONS

Based on observations of the influence of external factors (capitalization, house price index, property prices), and internal factors (NPM, DER and ROA) on share prices in the property sector for the 2013-2023 period, it was concluded that: (1) Based on tests using the common effect, it was concluded that internal factors (ROA, NPM, DER) have the most influence compared to external factors (stock price index, capitalization, interest rates and property prices) because they have test results of F statistics > F table. (2) ROA has a significant effect on share prices. The positive direction of the coefficient explains that an increase in ROA will result in an increase in share prices. (3) NPM does not have a significant effect on share prices. (4) DER has a significant effect on share prices. (5) the house price index has a significant effect on share prices. (6) The property capitalization value does not have a significant effect on share prices. The direction of the negative coefficient explains that an increase in market capitalization will result in a decrease in share prices. (7) Interest rates have a positive and significant effect on share prices. (8) Property prices have a positive and significant effect on share prices.

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