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## DETERMINANTS OF FUNDAMENTAL STOCK RETURN FACTORS AT TEXTILE AND GARMENT COMPANY, ANALYSIS DATA PANEL FOR PERIOD 2012 - 2019

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**Abstract:** This research aims to examine and analyze the effect of current ratio, total asset turnover, debt to equity ratio and return on equity on the value of stock of textile and garment companies in the Indonesia Stock Exchange for the period of 2012 to 2019. This research uses annual data for the observation period from 2012 to 2019. The population is textile and garment companies listed on the Indonesia Stock Exchange in 2012 to 2019 and up to 19 companies. The sampling technique used purposive sampling, found a sample of 7 companies with 8 years observation so that the total observation obtained was 56. The model used is the Common Effect Model. The results of the analysis show that the total asset turnover have a significant negative effect and return on equity have a significant positive effect, while the current ratio and debt to equity ratio have no significant effect on stock returns of textile and garment companies in the Indonesia Stock Exchange for the period of 2012 to 2019.

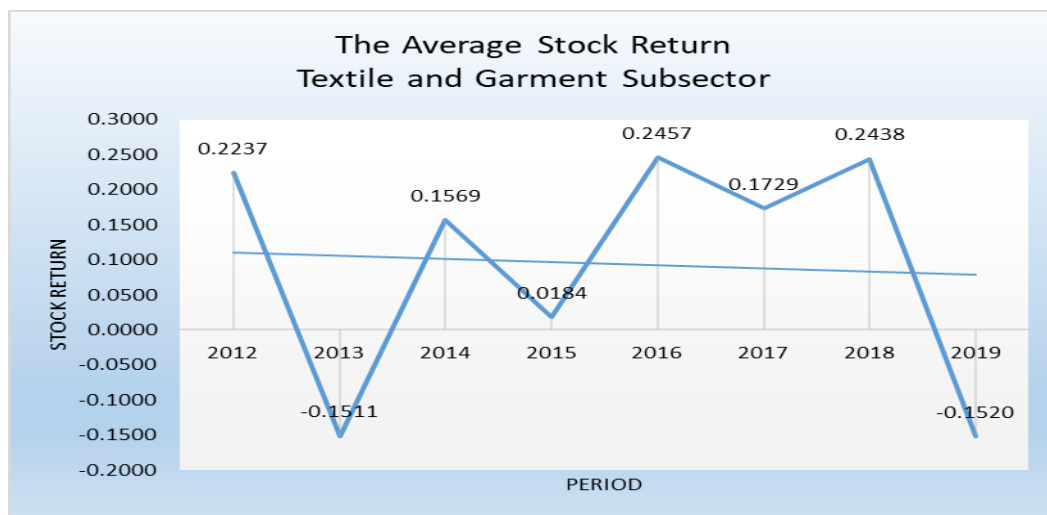
**Keywords:** Current Ratio, Total Asset Turnover, Debt To Equity Ratio, Return On Equity, Stock Returns.

## INTRODUCTION

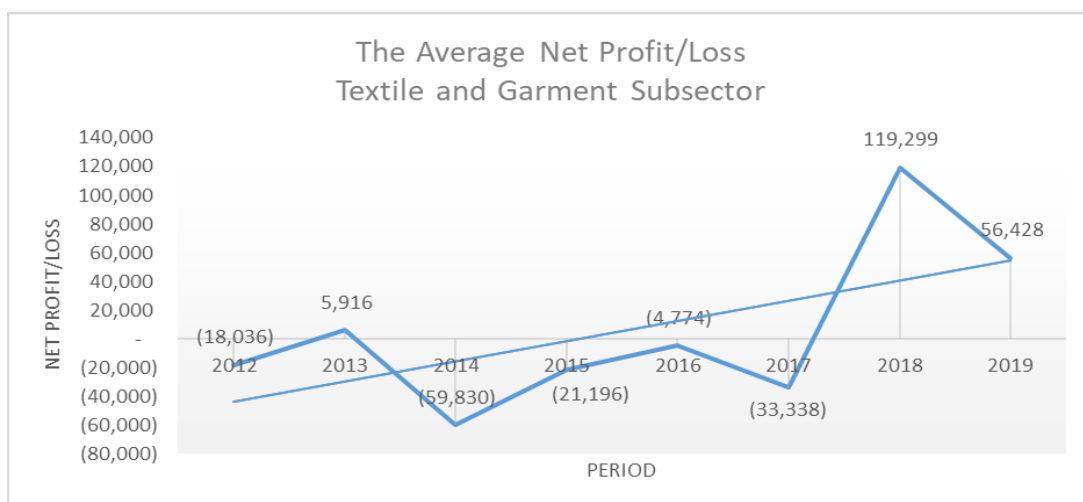
Indonesia Stock Exchange (IDX) is the current capital market Transaction Center. Indonesia Stock Exchange as one of the capital market that can be used as alternative funding for all sectors of the company in Indonesia. One of the funding alternatives is through the issuance and sale of stocks on the stock exchange. One of subsectors in the Indonesia Stock Exchange are the textile and garment subsector. There are 19 companies in the textile and garment subsector. The textile and garment subsector has an important role as the provider of domestic clothing needs. The textile and garment subsector has a major contribution to various aspects ranging from foreign investment (PMA), domestic investment (PMDN), export activities, foreign exchange receipts, state revenues, and gross domestic products. The textile and garment subsector is also able to open the job field and absorb the workforce which later reduce unemployment and require large funds so as to fulfill the funds the company will need funds from investors, hence the author

is interested in researching textile and garment subsector companies in hopes of providing better information for other authors and prospective investors who want to invest in stocks.

According to Halim (2005:12), if the profits obtained by the company are relatively high, then it is likely that the dividends paid are also relatively high. A high dividend will certainly attract investors to buy company shares so that the demand for these shares will increase and of course will make the stock price also increase. Of course, the theory mentioned above can be said to be correct and can be said to be less precise because this is contrary to the facts. Several manufacturing companies in the textile and garment industry sub-sectors listed on the Indonesia Stock Exchange experienced a phenomenon where the company's stock price experienced a downward trend when net profit / loss increased or vice versa. The trend of decreasing stock prices in the textile and garment sub-sector companies can certainly affect the company's stock return, which also experiences fluctuation and a downward trend. Here is the average stock return data and average net profit/loss the textile and garment subsector that is in the IDX period 2012-2019.



**Picture 1**  
**The Average Stock Return Data in IDX**



**Picture 2**  
**The Average Net Profit/Loss Data in IDX**

Based on Picture 1, it can be seen that the average stock return of textile and garment companies listed on the IDX has fluctuated and has a downward trend. The biggest decline occurred in 2019 due to the decline in stock prices of textile and garment companies in that period. Of the 19 shares of textile and garment issuers listed on the Indonesia Stock Exchange (IDX) from January 2 to September 30, 2019, there were 9 stocks that had negative returns. Some even fell by more than 50%. Stocks in the textile and garment industry were exposed to a sell-off by market players driven by the depressed fundamental performance of the company due to the influx of imports in the upstream product sector and increased competition for the export market (www.cnbcindonesia.com). Meanwhile, Picture 2 shows that the company's average net profit / loss from 2012-2019 experienced an increasing trend.

Based on the phenomenon that has occurred, the researcher has a desire to analyze what factors can affect a company's stock return. One way that can be used to determine what factors can affect stock returns is by conducting financial ratio analysis or better known as the traditional approach. Financial ratios are an activity of comparing numbers in financial reports by dividing one number by another (Kasmir, 2015:104). Financial ratios can be used by investors to analyze a company's ability to generate profits by utilizing existing shares. A company's stock return can be reflected in the company's financial performance. If the company's financial performance shows an increasing prospect, the shares will be in great demand by investors and the price will also increase.

## LITERATURE REVIEW

### Signaling Theory

Signaling theory was first introduced by Spence in 1973 which was later developed by Ross in 1977. The theory states that the company's executives have better information about their company and will be encouraged to deliver the information to prospective investors to increase the price of the company's shares. Cues or signals are an action that a company takes to instruct investors on how management views the company's prospects. This signal is in the form of information about what management has done to realize the owner's wishes (Brigham, 2011). The information provided by the management of the company is very important because it involves the investment decisions of parties who wish to invest in the company.

### Capital Asset Pricing Model

Asset pricing theories postulate that differences in expected returns are related to the covariances of securities with marginal utility. The marginal utility may depend on several economic risk factors, in which case several "betas" may be required to measure risk. Firm-specific attributes have traditionally served as alternatives to beta in tests of these asset pricing models. For example, the firm "size-effect" first drew attention as a challenge to the CAPM. The literature continued in this tradition with the ratios of stock market price to earnings and the book value of equity (e.g. Basu, 1977; Chan et al., 1991; Fama and French, 1992). The evidence of these studies suggests that such firm-specific attributes are important for explaining equity returns in the United States and Japan. Ferson and Harvey (1994), find that similar variables are important at the country level

### Stock Return

According to Sihombing (2018:66) return is the actual annual income received, plus any price changes in the market, usually written as a percentage of the opening price (asset) in the market. Stock return can be defined as a level of profit obtained and expected by investors from an investment for a certain period of time that will be obtained in the future. Stock return is the result

obtained from investment. Returns can be in the form of realized returns that have occurred or expected returns that have not occurred but which are expected to occur in the future (Umrotul, 2016).

### **Current Ratio**

The current ratio is the ratio commonly used to measure a company's ability to meet short-term obligations (short run solvency) that will mature within one year. Current liabilities are used as the denominator because they reflect liabilities that must be paid immediately within one year. The recommended current ratio is around 2. A current ratio that is too high, means that the company holds too many current assets. Meanwhile, current assets do not generate high returns compared to fixed assets. Conversely, current ratios that are too low or even less than 1 reflect the company's risk of not being able to meet maturing liabilities.

### **Total Assets Turnover**

Total assets turnover is a ratio used to measure the turnover of all assets owned by the company and to measure how much sales were obtained from each rupiah of assets. According to Murhadi (2013:60), Total Asset Turnover shows the effectiveness of a company in using its assets to create revenue. The greater this ratio, the better, which means that the assets can generate profits faster and shows the more efficient and effective use of all assets in generating income.

### **Debt to Equity Ratio**

Debt to Equity Ratio (DER) is a leverage ratio (solvency) which measures the ratio between external capital and own capital. According to Kasmir (2015:157) debt to equity ratio (DER) is a ratio used to assess debt to equity. To find this ratio by comparing all debt, including current debt, and all equity. According to Sutrisno (2012:218) Debt to Equity Ratio (DER) is a balance between debt owned by a company with its own capital. The higher this ratio means that the amount of debt is greater than the equity itself.

### **Return On Equity**

According to Kasmir (2015: 201), the return on equity (ROE) or the profitability of capital itself is a ratio to measure net profit after tax with its own capital. Because in general, profit is a measure used by investors in determining whether the company where the investor will invest is promising or not. This ratio shows the efficient use of own capital. The higher this ratio, the better. This means that the position of the company owner is getting stronger, and vice versa. Return on Equity usually describes whether shareholders receive a reasonable return on their investment.

## **METHODOLOGY**

### **Research methods and variables**

The research method used is an associative research method with a quantitative approach. Associative research is research that aims to determine the relationship between two or more variables (Sugiyono, 2012:55). Associative research is conducted to determine whether there is an effect of the current ratio, total asset turnover, debt equity ratio and return on equity to stock returns either partially or simultaneously. There is also an analysis of the research carried out by quantitative methods which aim to test the hypothesis. Quantitative research methods can be interpreted as a research method based on the philosophy of positivism, used to research specific populations or samples, data collection using research instruments, quantitative / statistical data analysis with the aim of testing predetermined hypotheses (Sugiyono, 2017: 8).

### **Analysis tools and regression models**

In analyzing this research author using the E-Views vers tool. 9.0. or higher. The analysis used to examine and answer the effect of the current ratio, total asset turnover, debt equity ratio and return on equity to stock returns either partially or simultaneously is by using Panel Data Regression Analysis approach. The data regression analysis panel is used to examine the hypotheses that have been filed in the research. The data panel is a combination of cross-section and time series. The data regression Model of the panel can be formulated as follows :

$$\text{Return} = \alpha + \beta_1 \text{CR}_{it} + \beta_2 \text{TATO}_{it} + \beta_3 \text{DER}_{it} + \beta_4 \text{ROE}_{it};$$

$$i = 1, 2, \dots, N; \quad t = 1, 2, \dots, T$$

Description:

Return = Stock Returns

CR = Current Ratio

TATO = Total Asset Turnover

DER = Debt To Equity Ratio

ROE = Return On Equity

$\alpha$  = Constants

$\beta$  = Regression Coefficient

E = Residual Error

## RESULTS OF RESEARCH AND EXPLANATION

### Descriptive Data

Descriptive statistics are intended to provide an overview or explanation of the data of a variable that is researched, variables used include, current ratio, total assets turnover, debt to equity ratio and retun on equity to stock returns. From the results of descriptive statistical analysis to the five variables with the research sample (n = 56), and the results have been depicted on the table below.

**Table 1 Descriptive Statistical Analysis Results**

	STOCK_RETURN	CR	TATO	DER	ROE
Mean	0.089777	1.831973	0.891839	1.327897	0.050150
Median	0.000000	1.264212	0.994882	1.290000	0.034650
Maximum	3.740000	6.505906	1.496908	3.996260	0.307400
Minimum	-0.816667	0.403100	0.135411	0.183200	0.000400
Std. Dev.	0.598154	1.410005	0.447953	0.816676	0.058844
Skewness	4.236205	2.104801	-0.482443	0.979565	2.029937
Kurtosis	26.18552	7.093504	1.803321	3.786138	8.234181
Jarque-Bera	1421.816	80.44756	5.513778	10.39782	102.3849
Probability	0.000000	0.000000	0.063489	0.005523	0.000000
Sum	5.027493	102.5905	49.94297	74.36222	2.808388
Sum Sq. Dev.	19.67833	109.3462	11.03642	36.68282	0.190442
Observations	56	56	56	56	56

Source: Data processing result with Eviews version 9.0, (2020).

1. The stock return variable shows a minimum value of -0.816667. The negative number of the minimum value is because there are several sample companies that have negative stock returns three times or more during the study period. And the maximum value is 3.740000. And the company average has a stock return value of 0.089777 with a standard deviation of 0.598154 (above the average). It can also be seen in the stock return variable, the standard deviation value is greater than the mean. It can be concluded that stock returns have a high level of data variation and there is a large fluctuation of the stock return variable for textile and garment companies on the IDX.
2. The current ratio variable shows a minimum value of 0.403100 and a maximum value of 6.505906. The average company has a current ratio value of 1.831973, this shows that every Rp 1 current liabilities can be fulfilled with 1.831973 current assets owned by the company. The standard deviation value of the current ratio is 1.410005 (below the average), indicating that the current ratio has a low level of data variation and there is no large fluctuation of the current ratio variable against textile and garment companies on the IDX.
3. The total asset turnover variable shows a minimum value of 0.135411 and a maximum value of 1.496908. The average company has a total asset turnover value of 0.891839, this shows that every Rp 1 of the company's assets can generate 0.891839 times sales. The standard deviation value is 0.447953. (below average), indicating that the total asset turnover has a low level of data variation and there is no large fluctuation of the total asset turnover variable for textile and garment companies on the IDX.
4. The debt to equity ratio variable shows a minimum value of 0.183200 and a maximum value of 3.996260. The average company has a debt to equity ratio of 1.327897, this shows that every Rp. 1 of equity the company has is used to finance Rp. 1, 327897 of the company's liabilities. The standard deviation value is 0.816676 (below the average), indicating that the debt equity ratio has a low level of data variation and there is no large fluctuation of the debt equity ratio variable against textile and garment companies on the IDX.
5. The return on equity variable shows a minimum value of 0.000400 and a maximum value of 0.307400. The average company has a return on equity value of 0.050150, this shows that for every Rp. 1 of equity the company can generate Rp. 0.050150 profit. The standard deviation value is 0.058844 (above the average), indicating that the return on equity has a high level of data variation and there is a large fluctuation of the return on equity variable for textile and garment companies on the IDX.

### Data Regression Analysis Panel

**Table 2 Conclusion Testing Model Data Regression Panel**

No	Method	p-value ( $\alpha=0,05$ )	Result
1	Chow-Test	0.1657	Common Effect
2	Lagrange Multiplier-BP	0.6706	Common Effect
3	Hausman Test	0.4153	Random Effect

The data regression analysis of the panels used in the hypothesis testing is to test the effect of current ratio, total assets turnover, debt to equity ratio and return on equity on stock returns. From the two previous tests, namely the Chow Test and the LM Breusch-Pagan (BP), it was concluded that the authors' data would be more appropriate using the Common Effect Model (CEM). Here is an Eviews output for the data regression panel using the Common Effect Model (CEM).



**Table 3 Panel Data Regression Analysis Results**

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.130204	0.214019	0.608378	0.5456
CR	0.027404	0.055157	0.496845	0.6214
TATO	-0.599137	0.237738	-2.520156	0.0149
DER	0.113949	0.109154	1.043925	0.3014
ROE	5.830326	1.625833	3.586054	0.0008
R-squared	0.210080	Mean dependent var	0.089777	
Adjusted R-squared	0.148125	S.D. dependent var	0.598154	
F-statistic	3.390872	Durbin-Watson stat	2.170871	
Prob(F-statistic)	0.015546			

Source: Data processing results with Eviews version 9.0, (2020)

### **Impact of current ratio on stock returns**

The first hypothesis (H1) which states that the current ratio has a positive effect on stock returns, is rejected. This shows that the current ratio has no significant effect on stock returns. The results of this study are in line with research conducted by Erik Setiyono and Lailatul Amanah (2016) and Ihsan S. Basalama, Sri Murni, Jacky S.B. Sumarauw (2017) which states that the current ratio has no effect on stock returns, but it is not in line with previous research conducted by Yuliya Wingsih (2013), Khairani Purnamasari et. al (2014) and Sugiarti (2015). The current ratio is used to measure the company's ability to meet its short-term debt by using its current assets (assets that will turn into cash within one year or one business cycle). The ability of a company to pay off its short-term obligations on time or at maturity can lead to good prospects from investors to the company. With a good perspective, it will generate interest in investing, so that the supply and demand for shares can occur which in turn has an impact on changes in the company's stock return.

In the research results, the current ratio does not have a significant effect on company stock returns, this is probably because most companies in the study are still affected by the impact of the crisis experienced by this industry so that the overall ability of current assets available in the company is not good enough. In addition, the interpretation of this ratio can be different for several industries, not only for manufacturing and non-manufacturing, so it needs a reinterpretation of how much the current ratio is acceptable for each specific different industry. Thus it can be said that investors in predicting stock returns cannot consider the current ratio in making decisions.

### **Impact of total assets turnover on the stock returns**

The second hypothesis (H2) which states that total asset turnover has a negative effect on stock returns, is accepted. This shows that total asset turnover has a significant effect on stock returns. The results of this study are in accordance with the hypothesis proposed in the study and also in line with previous research conducted by Dwi Martani, Mulyono and Rahfiani Khairurizka (2009) and Ajeng Ika Ariyanti and Suwitho (2016) regarding total asset turnover which states that total asset turnover has a significant effect. to stock returns. However, the results of this study contradict the research of Tri Laksita Asmi (2014), Christmas Bisara and Lailatul Amanah (2015) and Farda Eka Septiana and Aniek Wahyuati (2016) which states that total asset turnover has no significant effect on stock returns. Total asset turnover is measured by sales volume, meaning that the ability of all assets to create sales can certainly increase profits. However, this can be a consideration for investors because not always profit can be used by investors' interests. Profits

can be used to pay corporate debts, therefore investors can consider this ratio in predicting stock returns.

### **Impact of debt to equity ratio on stock returns**

The third hypothesis (H3) which states that the debt to equity ratio has a negative effect on stock returns, is rejected. This shows that the debt to equity ratio has no significant effect on stock returns. The results of this study are in line with previous research conducted by Sari Oktavera (2016) and Gharaibeh (2014) who said that debt to equity ratio has no effect on stock returns. However, this is not in line with or inconsistent with the results of research by Ayu Kemala Putri (2016), Sari (2016) and Moh. Zainuddin Arief et al (2017) who show that the debt to equity ratio has a significant effect on stock returns. Debt equity ratio is a ratio of leverage (solvency) which can describe the level of risk of a company due to the use of debt for its operating activities. Debt To Equity Ratio (DER) can be used to measure the extent to which owner's capital can cover debts to outsiders. A high debt to equity ratio indicates the dependence of the company's capital on outsiders and affects the company's performance. This will reduce shareholder rights (in the form of dividends), as well as reduce investor interest in the company's shares because the rate of return is getting smaller. From the results of this study, it can be concluded that the real condition of investors before investing their capital cannot be fixed or focused on the value of a company's debt to equity ratio. This may be due to losses incurred by companies from the previous period which resulted in changes in equity that can be distributed to owners of the parent entity.

### **Impact of return on equity on stock returns**

The fourth hypothesis (H4) which states that return on equity has a positive effect on stock returns, is accepted. This shows that return on equity has a significant effect on stock returns. The results of this study are in accordance with the hypothesis proposed in the study and also in line with research previously conducted by Michael Aldo Carlo (2014), Neni Awika Andansari, Kharis Raharjo, Rita Andini (2016) and Arifah Rusydina and Sugeng Praptoyo (2017) regarding return on equity which states that return on equity has a significant effect on stock returns. However, the results of this study contradict the research of Mutiara Tumonggor, Sri Murni, Paulina Van Rate (2017) and Ayu Nurhayani Aisah and Kastawan Mandala (2016) which state that return on equity has no significant effect on stock returns. From the research results, it can be said that investors in predicting stock returns can consider return on equity in making investment decisions. The higher the return on equity means the better the company's performance in managing its capital to generate profits for shareholders. The value of return on equity itself has no limits, because return on equity is the ability to earn profits, so it has no limitations. With an increase in net income, the return on equity value will also increase so that investors are interested in buying these shares, which in turn will increase the company's stock return.

### **Impact of current ratio, total assets turnover, debt to equity ratio and return on equity affect stock returns**

The results of the fifth hypothesis research (H5) which states that the current ratio, total asset turnover, debt to equity ratio and return on equity have a positive effect on stock returns. So that the results obtained indicate that the current ratio, total asset turnover, debt equity ratio and return on equity have a significant effect on the stock return variable.

## **CONCLUSION**

1. There is no effect of the current ratio on stock returns in textile and garment companies listed on the Indonesia Stock Exchange (IDX) for the period 2012-2019.



2. There is a negative effect of total asset turnover on stock returns in textile and garment companies listed on the Indonesia Stock Exchange (BEI) for the period 2012-2019.
3. There is no effect of the debt equity ratio on stock returns in textile and garment companies listed on the Indonesia Stock Exchange (BEI) for the period 2012-2019.
4. There is a positive effect of return on equity on stock returns in textile and garment companies listed on the Indonesia Stock Exchange (BEI) for the period 2012-2019.
5. Simultaneously there is a significant effect of the current ratio, total asset turnover, debt equity ratio and return on equity to stock returns in textile and garment companies listed on the Indonesia Stock Exchange (BEI) for the period 2012-2019.

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