Effect of Current Ratio and Debt to Equity Ratio on Price to Book Value Moderating Return on Assets in Food and Beverage sub-sector Companies

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Abstract

This study aims to examine and analyze the effect of the Current Ratio and Debt to Equity Ratio on Price to Book Value with Return on Assets as a Moderating variable listed on the Indonesia Stock Exchange in the food and beverage sub-sector companies for the 2016-2020 period. The sample of the food and beverage sub-sector is 11 companies, over a period of 5 years. The simple technique is the Purposive Sampling Technique. The data collection technique is a documentation study with the type of data, namely secondary data. This research uses the Partial Least Square data analysis method. And the data is processed with Smart PLS. The results of this study indicate that the Current Ratio has no effect on Price Book Value, and Debt Equity Ratio has no effect on Price to Book Value. Then the results of this study also show that Return on Assets is not able to moderate the effect of the Current Ratio on Firm Value but Return on Assets is able to moderate the effect of the Debt to Equity Ratio on Firm Value. The amount of variation in PBV can be explained by the independent variable of 90.8% and 9.2% can be explained by other variables such as Total Asset Turnover and others.

Keywords: Current Ratio; Debt to Equity Ratio; Price to Book Value; Return on Asset

Introduction

In today's business world, economic changes are increasing and developing very rapidly. Many companies are engaged in various sectors resulting in competition between companies. Food and beverage companies are one sector of manufacturing companies. Food and beverage companies are one of the business sectors that continue to experience growth and over time with population growth, the volume of demand continues to increase.

Firm value is the investor's perception of the success of a company in managing its resources at the end of the current year as reflected in the company's stock price. A high company value is the desire of the company owners because a high value indicates the prosperity of shareholders is also high.
Firm value is an investor's perception of the company, which is often associated with stock prices. Explaining that one of the things that investors consider in investing is the value of the company where the investor will invest (Suffah and Riduwan, 2016). The share price is based on the demand and supply of investors so that the share price can be used as a proxy for the value of the company.

Liquidity is the level of the company's ability to meet its financial obligations. Liquidity shows the ability of a company to meet its financial obligations that must be met immediately, or the company's ability to meet financial obligations when billed. (Munawir, 2007). If liquidity is high, the company uses its capital more than the use of debt (Seftianne and Handayani, 2011). Leverage is the company's ability to meet all obligations, namely short-term and long-term (Ukhriyawati and Putri, 2016). Leverage is a ratio used to measure the extent to which the company's assets are financed with debt. This means the amount of debt used by the company to finance its business activities when compared to using its capital (Fahmi, 2014). The leverage ratio is the company's ability to pay its long-term obligations or obligations if the company is liquidated (Syafri, 2008). The leverage ratio describes how much-borrowed capital is used by the company in all of the company's operational activities (Syamsuddin, 2013).

Tests on the Debt to Equity Ratio against Price to Book Value have been carried out by several researchers but there is a gap in the results obtained. Yumiasih and Isbanah (2017) conclude that the Debt to Equity Ratio has no significant effect on Price Book Value. Pratama and Wiksuan (2016) found that the Debt to Equity Ratio has a positive effect on Price Book Value. Profitability is a financial performance ratio that is used as an indicator of a company's ability to use its capital to generate profits. Companies with high profitability show that their profits are growing. Return on Assets is used as a projected profitability ratio. Winarto (2015) found that profitability had a positive effect on firm value. Wulandari and Wiksuana, (2017), show that profitability has a negative and insignificant effect on firm value.

**Method**

2.1 Research Design

This research is associative because it aims to see the relationship between two or more variables on the company's PBV. With a conceptual framework as follows

![Conceptual Framework Diagram](image)
2.2 Sample and Data Collection

Understanding the sample according to Sugiyono (Akdon and Sahlan, 2005:98) says "The sample is part of the number and characteristics possessed by the population". The sample in this study is the annual financial report of manufacturing companies in the food and beverage sub-sector listed on the Indonesia Stock Exchange for the 2016-2020 period with certain criteria. The sampling technique used in this study uses the Purposive Sampling Technique, which is a technique to determine the sample used following intentionally taking certain samples according to the research objectives and meeting all the requirements for sampling including:

1. Food and beverage sub-sector companies that have been listed on the Indonesia Stock Exchange until December 31, 2016-2020, respectively.
2. Food and beverage sub-sector companies with IPOs over the years 2016-2020.
3. Food and beverage sub-sector companies that issue financial reports as well as complete annual reports under the required data successively.

From a total population of 26, samples that meet the predetermined criteria are 11 companies.

2.3 Instruments

It is a matrix of data research and indicators for research.

<table>
<thead>
<tr>
<th>Table 1. Operational Definition</th>
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<tr>
<td>Variable</td>
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<td>Current Ratio</td>
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<tr>
<td>Debt to Equity Ratio</td>
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<tr>
<td>Price to Book Value</td>
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<td>Return on Asset</td>
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</table>

2.4 Analyzing of Data

Descriptive statistics are statistics that function to describe or provide an overview of the object under study through sample or population data as it is, without analyzing and making conclusions that apply to the public (Sugiyono, 2016). It also aims to analyze the general condition of the sample tested, namely the food and beverage sub-sector in Indonesia for the 2016-2020 period. The data analysis technique in this study used Partial Least Square (PLS). PLS is a Structural Equation Modeling (SEM) equation model with an approach based on variance or component-based structural equation modeling.
Data analysis is done by collecting the necessary data such as company financial statements, collected and processed using Microsoft Excel. Companies that meet the Purposive Sampling criteria are then tested using the Smart PLS application.

**Results and Discussion**

Descriptive statistical analysis is a statistic used in analyzing data by describing or describing the data that has been collected which aims to provide an overview or describe the data in variables seen from the average (mean), minimum, maximum and standard deviation values.

![Figure 1. Descriptive Statistical Analysis](image)

From the output Figure 1 shows the value of N (amount of data) to be studied is 55 samples. CR as protection from Liquidity has a mean value of 2.814 with a maximum value of 8619 at the company PT. Delta Djakarta Tbk in 2017 and a minimum score of 444 at the company PT. Mayora Indah Tbk in 2016 with a standard deviation of 1,991. Debt to Equity Ratio as protection from Leverage has a mean value of 722 with a maximum value of 1.772 at the company PT. Multi Bintang Indonesia Tbk in 2016 and a minimum score of 164 at the company PT. Ultrajaya Milk Industry and Trading Company Tbk in 2018 with a standard deviation of 412. Price to Book Value as protection from the value of the company has a mean value of 5,055 with a maximum value of 30,168 at the company PT. Multi Bintang Indonesia Tbk in 2016 and a minimum score of 577 at the company PT. Ultrajaya Milk Industry and Trading Company Tbk in 2018 with a standard deviation of 6,976. Return On Assets as protection from profitability has a mean value of 121 with a maximum value of 527 at the company PT. Sekar Bumi Tbk in 2019 with a standard deviation of 104.
Structural model analysis (Inner Model) can be done by looking at R2. Based on Figure 4, the R-Square Adjusted value has a value of 0.908. This shows that the Current Ratio (X1), Debt to Equity Ratio (X2), and Return On Assets (Z) in their influence on Price to Book Value, have an effect of 90.8% or 9.2% explained by other variables. Path Coefficients are useful for testing the hypothesis of the effect of variables X and Y on variable Y.
Based on the results of the Path Coefficients analysis in Figure 4, it can be seen that the hypothesis test of the effect of CR on PBV has a parameter coefficient value of 0.009 with a t-statistic significance of 0.117 less than 1.96 and a P value of 0.907 greater than 0.05. This shows that CR has no effect on PBV, so hypothesis H1 is rejected. The current ratio is a ratio to measure the company's liquidity by measuring the ability of the company's current assets to cover the company's current debt. The results of the study indicate that the Current Ratio has a positive and insignificant effect on PBV. The Current Ratio is important to consider in assessing whether the company's short-term operational activities are running smoothly. The better the CR shows the company is quite safe because it is able to overcome short-term debt with its current assets. This convinces investors to invest and can increase stock prices. This shows that there is a positive influence between the Current Ratio and PBV. The company's products in the food and beverage sector are the primary needs of the community. With companies that can still sell their products, the company will get cash or receivables which will later be used as payment instruments for short-term debt obligations. In addition, investors do not pay much attention to the level of company liquidity. Investors tend to focus only on the rate of return and the company's ability to generate profits. So this condition makes liquidity have no effect on firm value.

Signaling theory is related to CR, where the higher the company's ability to pay its short-term obligations, the better signal or good news to investors. This shows that the company is able to solve its debt problems. The results of this study are in line with the research of Fitirana (2020) and Hellyas (2021) which state that liquidity does not affect firm value. But it is inversely proportional to the research of Muwafick (2019) which states that the Current Ratio has an effect on firm value.

Based on the results of the Path Coefficients analysis in Figure 4, it can be seen that the hypothesis test of the effect of DER on PBV has a parameter coefficient value of 0.260 with a t-statistic significance of 3.465 greater than 1.96 and a P value of 0.001 less than 0.05. This shows that DER has an effect on PBV, then hypothesis H2 is accepted. Debt to Equity Ratio is a method to measure a company's business risk that can influence a good decision for the company, creditors, and investors. DER is a debt to equity ratio that compares the amount of debt to equity. Usually, DER is used for company operations and must have a proportional amount. Not only that, this DER is used to measure the company's investment. The results of the study indicate that DER has a positive and significant effect on PBV. Signaling theory explains that good financial statements can be a signal that the company is operating well. Managers must signal the condition of the company to the owner as a form of responsibility for managing the company. A good DER ratio is a positive signal to investors, but debt is a source of high-risk financing. A DER ratio that is too high can raise doubts in the eyes of investors because it is feared that the company has the potential to fail to pay and even go bankrupt so that it can harm investors. So investors focus on the rate of return on debt. So this condition makes Leverage affect the value of the company. This is in line with research by Darmayanti (2019) and Marhaenis (2021) which state that DER has a positive and significant effect on firm value. In contrast to research by Selvi and Ita (2019) which states that DER has no effect on firm value.

Based on the results of the Path Coefficients analysis in Figure 4, it can be seen that the ROA hypothesis test in moderating the effect of CR on PBV has a parameter coefficient value of 0.026 with a t-statistical significance of 0.388 smaller than 1.96 and a P value of 0.698 greater than 0.05. This shows that ROA cannot moderate the effect of CR on PBV, so hypothesis H3 is rejected. The results showed that ROA could not moderate the effect of CR on PBV. This research has not been able to strengthen the effect of liquidity on firm value through profitability. What investors pay attention to before investing in a company is that it tends to increase profitability. Increasing the profitability of a company will attract investors to invest in the company.
Based on the results of the Path Coefficients analysis in Figure 4, it can be seen that the ROA hypothesis test in moderating the effect of DER on PBV has a parameter coefficient value of 0.264 with a $t$-statistic significance of 2.864 greater than 1.96 and a P value of 0.004 less than 0.05. This shows that ROA can moderate the effect of DER on PBV, so hypothesis H4 is accepted. The results showed that ROA can moderate the effect of DER on PBV. if the company can maintain the proportion of its debt, the ROA value will be high. With a high ROA value, the company's main goal will be achieved, namely maximizing company value.

**Conclusion**

Based on the results of the study, several conclusions can be drawn as follows:

1. The Current Ratio has no significant effect on the PBV of the food and beverage sub-sector companies on the Indonesia Stock Exchange for the 2016-2020 period.
2. Debt to Equity Ratio has a significant effect on PBV in food and beverage sub-sector companies on the Indonesia Stock Exchange for the 2016-2020 period.
4. Return on Assets can moderate the effect of the Debt to Equity Ratio on PBV in food and beverage sub-sector companies on the Indonesia Stock Exchange for the 2016-2020 period.

Based on the limitations of this study, the researcher gives several suggestions as material for consideration for research as follows: (1) For investors who want to invest in food and beverage sub-sector companies, they should pay attention to the DER ratio. whether the ratio can be used as a guide to determine companies that are worth investing in or not. (2) For companies in the food and beverage sub-sector to pay more attention to the DER ratio as a guideline for building a business that can be trusted by investors. (3) For further researchers, it is recommended to use a sample of companies in other sectors such as mining, and banking. And it is recommended to increase the number of independent variables that can affect the dependent variable such as dividend policy, and company growth.

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