AN INVESTIGATIVE STUDY ON SUSTAINABLE COMPETITIVE ADVANTAGE OF MANUFACTURE COMPANIES IN INDONESIA

Edi PURWANTO1*, Agnes Debora Bernice PURWANTO2

1Department of Management & Jaya Launch Pad, Universitas Pembangunan Jaya, Tangerang Selatan, Indonesia
2Department of Management, Universitas Bunda Mulia, Jakarta, Indonesia

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Abstract. The purpose of the research is to investigate the effect of external and internal factors on corporate performance and sustainable competitive advantage. The samples of the study are ten manufacturing companies in the pharmaceutical, cosmetic, and household utility sectors listed on the Indonesia Stock Exchange (IDX). The data analysis use PLS-SEM. The result shows that corporate performance is influenced by leverage and liquidity (internal factors) significantly but is not influenced by external factors significantly as well as organizational performance doesn't impact the sustainable competitive advantage significantly. The results of this study can be a concern for companies that corporate performance is not the ultimate goal of a business. Still, it must be followed by a sustainable competitive advantage if the company wants the return is not temporary, but sustainable. The originality of the paper is the results of this study show that the competitive advantage of an industry or company can not only rely on one factor, from external or internal environmental factors.

Keywords: macroeconomic, leverage, liquidity, firm performance, sustainable competitive advantage.

JEL Classification: E44, E52, G32.

Introduction

With confidence, Unilever Indonesia Ltd (UNVR) wrote on its website, "Every day, 2.5 billion people use various Unilever products... Therefore, this provides us with a good opportunity to build a brighter future" (Unilever, 2019). It also says, "Seven out of ten homes around the world use at least one Unilever product, and our world-leading household product brands including Lipton, Knorr, Dove, Ax, Hellmann's, and Omo" (Unilever, 2019). As one of the manufacturers of household goods sub-sector, UNVR is not just playing alone in the Indonesian and global markets. As reported by finance.detik.com, Unilever Indonesia Ltd, and Procter & Gamble (P&G) are often involved in tight price wars. Saputra (2013) mentions Procter & Gamble Co. (P&G) as Unilever’s eternal rival.

Procter & Gamble Indonesia (P&G) has been serving Indonesian consumers for more than 30 years with trusted products such as Pantene, Head & Shoulders, Rejoice, Downy, Gillette, Pampers, SK-II, Olay, and Vicks. As explained on the company’s website, currently, P&G Indonesia has become one of the key P&G global markets. Because P&G Indonesia, which has a factory in Kerawang, manufactures products for not only the local market but also global consumers. Hiring more than 500 high-skilled employees and thousands of employees in the distribution supply chain illustrates that P&G Indonesia not only has market opportunities but also has resource strength (PGcareers, 2019).

Unilever has since begun to operate in Indonesia and has succeeded in becoming one of the industry players with a leading business pace through 43 popular brands. In 2013 Unilever had eight factories that became its production base and claimed to have invested more than IDR 4 trillion in just the last three years. Unilever continues to try to maintain its market share from P&G because since P&G products have invaded Indonesia, P&G erode the Unilever market by 32%. P&G has been tempting through its top brands such as Pantene, Rejoice, Head & Shoulders, and Olay (Saputra, 2013).

Other companies that play and compete in the same industry. Namely, the manufacturing pharmaceuticals, cosmetics, and household utilities sectors listed on the Indonesia Stock Exchange include Akasha Wira International, Kino Indonesia, Mandom Indonesia, Darya Varia Laboratoria, Kimia Farma, Kalbe Farma, Merck Sharp
The external environment becomes the primary determinant of the strategy chosen by the company to achieve success. The industrial organization (I/O) model of above-average returns is the dominant factor of the external environment that influences various strategic actions of the company. The scale economy mainly determines the firm performance, multiple barriers to entering the market, diversification, product differentiation, and the level of concentration of the company in its industry (Hitt et al., 2011).

Economically, this I/O model has four underlying assumptions. First, the external environment provides various pressures and obstacles that determine the strategy and will produce above-average returns. Second, most companies compete in the same industry that uses almost the same resources by implementing a similar approach. Third, the resources used to implement the strategy are assumed to be able to move from one company to another, so that the differences in resources developed within companies in the same industry only apply to the short term. Fourth, corporate decision-makers are considered rational and committed to producing the best profit of the company compared to its competitors through profit-maximizing behavior (Hitt et al., 2011).

External factors such as politics, economics, socio-cultural, technology, environmental sustainability issues, legal are macro factors that affect the performance of the company in the form of providing opportunities or threats. Likewise, technical factors such as the bargaining power of suppliers, buyers, newcomers, competitors, and substitute products are factors that influence company performance (F. R. David & F. R. David, 2015).

1.2. Resource-based view model

The Resource-Based View Model assumes that each company is a collection of unique and capable resources. The uniqueness of the supply or capabilities owned by the company is the basis of the company's strategy and ability to get returns above the average. Resources are inputs in the production process of a company, such as capital equipment, individual skills of employees, patents, finance, and qualified managers (talented managers). Capability is the capacity that is within the company's resources to integrally to increase returns above average (Hitt et al., 2011). This RBV model considers that the competitive advantage of a company depends on internal resources that are unique, rare, costly to be imitated, and organized to be exploited. All of these are the essential factors for pursuing sustainable competitive advantage compared to external factors (F. R. David & F. R. David, 2015).

From the RBV model perspective, the company's financial condition often considered as the only best measure for a company's competitive position and the attractiveness of investors to invest in the company. To know the strengths and weaknesses of investment, a company necessary to formulate strategies effectively. Liquidity, leverage, working capital, profitability, asset utilization, cash flow, and equity can be a company's strength in implementing the plan (F. R. David & F. R. David, 2015).
1.3. Sustainable competitive advantage

Strategic management studies recognize the external factors in the I/O model and internal factors in the RBV model are keys to create a competitive advantage and lead to sustainable competitive advantage. The industrial organization theories recognize external environments is keys to obtain a sustainable competitive advantage (Liou et al., 2015). Besides that, to create a sustainable competitive advantage, a company needs to have and develop unique, rare, costly to be imitated, and organized to be exploited. The company needs to develop them through cumulative experiences to create barriers to competitor replication. The company needs to develop them through know-how or expertise continues to develop new resources (Yadav et al., 2016).

1.4. Previous studies

Recent studies are needed to build gaps analysis. A gap analysis is assessment of previous studies for the purpose of identifying the deference between the previous studies and what this paper will investigate. Table 1 is the description of the previous studies.

| No. | Author (year) | Research objective | Findings | Recommendation for future research |
|-----|---------------|--------------------|----------|-----------------------------------|
| 1   | Vieira et al. (2019) | The purpose of the study is to analyze the impact of the firm-specific (liquidity, leverage, firm size) and macroeconomic factors (GDP, public debt, investor sentiment, the existence of managerial ownership, board size) on Portuguese firms' performance (ROA). | The study finds Liquidity, leverage, GDP, Public debt, Investor sentiment, the existence of managerial ownership influence profitability, but Firm size and board size do not. | Researchers give recommendations for future research to investigate the firm performance in other European stock exchanges and include cost efficiency and the firms' innovation as determinants factors. |
| 2   | Egbunike and Okerekeoti (2018) | The study aims are to investigate the impact of macroeconomic factors (interest rate and exchange rate) and firm characteristics on financial performance (ROA) among manufacturing firms in Nigeria. | The study finds interest rate and exchange rate do not influence performance, but the inflation rate and GDP influence firm performance. The study also finds that firm size, leverage, and liquidity influence performance. | The study gives managerial and government policy implications but did not provide recommendations for future research. |
| 3   | Nanda and Panda (2018) | The purpose of the study is to examine the impact of the firm-specific (firm size, leverage, liquidity) and macroeconomic (exchange rate) on profitability (ROA and NPM) among Indian manufacturing firms. | The study finds the firm-specific and Exchange rate influences profitability. The study finds the firm-specific and Exchange rate influences profitability. Size and liquidity are essential factors to enhance profitability, but instead, leverage discourages profitability. | Researchers suggest to Exam industrial factors may be an important determinant of firm profitability for future research. |
| 4   | Ndlovu and Alagidede (2018) | The study purpose is to investigate the impact macroeconomic (GDP, interest rates, unemployment, and exchange rates) on performance (ROE) among BRICS financial services firm. | The study finds GDP and interest rates influence ROE positively, but unemployment and exchange rates have a negative influence. | Researchers suggest investigating the effect of operational efficiency, funding structures, monetary policy, and capital mobility on ROE and other profitability measures for future research. |
| 5   | Chowdhury and Rasid (2017) | This study examined the impact of Bank-specific (Credit risk, equity financing, bank size, operating efficiency, Liquidity management) and macroeconomic (GDP, inflation, money supply, Market capitalization, oil price) on performance (ROA) among the Islamic banks in Gulf Cooperation Council (GCC) regions. | The study finds that the equity financing and bank size positively influence profitability, but operating efficiency negatively and significantly impact performance. The study also finds that money supply and inflation adversely affect performance substantially, but oil prices positively influence it. | Researchers recommend future research to larger sample size and extend the study by using other performance measurements. |
| 6   | Dioha et al. (2018) | This study examined the impact of firm characteristics (firm age, firm size, sales growth, liquidity, and leverage) on profitability (Return on Sales) among consumer goods companies in Nigeria. | The study finds firm size, sales growth, and leverage influence profitability, but firm age and liquidity are not. | Researchers only give managerial recommendations and not for future research. |
1.5. Gaps analysis

In Table 1, Alarussi and Alhaderi (2018), recommended examining the impact of internal factors on firm performance as a comparative study between companies in different countries. Ndlovu and Alagidede (2018) investigated the effect of the external factors on firm performance, but the recommended to examine the impact of internal factors on firm performance for future research. Chowdhury and Rasid (2016), Nanda and Panda (2018), Vieira et al. (2019) recommended future research that investigates the impact of external and internal factors on firm performance still essential to be conducted in countries. Therefore, this study investigates the effect of external factors (Inflation, Exchange rate, and GDP Growth) and internal factors (leverage and liquidity) on firm performance.

In Table 1, Nanda and Panda (2018) investigate the determinants factor of performance (ROA and NPM). On the other hand, Ndlovu and Alagidede (2018) use ROE to measure performance. Then Ndlovu and Alagidede (2018) recommended using other performance measures for future research. Therefore, this study will use ROA, ROE, and NPM as proxies of firm performance.

1.6. Hypotheses development

1.6.1. The effect of external factors on firm performance

Firm performance is showed by profitability ratio (Liuspita & Purwanto, 2019). Growe et al. (2014) found that the effectiveness of the external factors did not influence profitability, which profitability is proxy of company performance, especially in the banking sector in the United...
States. Still, several studies have verified the effect of the external factors on firm performance. Eggunike and Okerekeoti (2018) found external factors conditions were proven to have an impact on corporate financial performance. They said that external factors that were not under management’s control included social environment, environmental issues, political conditions, government regulations, policies, suppliers, competitors. These factors affect company performance. Eggunike and Okerekeoti (2018) found the effect of interest rates, inflation rates, currency exchange rates, and GDP growth on the financial performance of consumer goods companies listed on the Nigerian Stock Exchange. Previously several other researchers, such as Mwangi and Wekesa (2017), tested the effect of external factors on the performance of companies in Kenya. Issah and Antwi (2017) also examined the role of external factors on the performance of companies in the U.K. Nanda, and Panda (2018) proved that although the exchange rate does not affect the profitability or performance of the company for the short term, for a long time, the effect demonstrated. Chowdhury and Rasid (2017) examined the impact of external factors on company performance, and they proved that inflation is a macroeconomic variable that affects profitability or company performance.

Then, Ndlovu and Alagidede (2018) also confirmed the influence of the external factors on company performance. They prove that GDP and interest rates, inflation, unemployment, and currency exchange rates affect Return on Equity (ROE) or profitability. Abaidoo (2019) also tested and proved that uncertain external factors policies cause corporate performance volumes. Vieira et al. (2019) also showed that external factors are a factor influencing the performance of non-financial companies in Portugal. Likewise, this research will test the following hypotheses:

**H1: There is a significant effect of external factors on the performance of manufacturing companies.**

**1.6.2. The effect of the leverage on the firm performance**

Nanda and Panda (2018) found that leverage discourages firm performance, especially in manufacturing companies in India. And Lasisi et al. (2017) found that leverage negatively influences firm performance. Likewise, Alarussi and Alhaderi (2018) found that leverage hurts firm performance, at least among companies in Malaysia.

Bist (2017) found that leverage is a vital factor in enhancing firm performance. Likewise, Dioha et al. (2018) found that leverage is an essential factor of firm performance among insurance companies in Nepal. As well as, Eggunike and Okerekeoti (2018) confirmed leverage is a significant factor for return on asset (firm performance). Also, Dioha et al. (2018) demonstrated leverage affect the profitability or performance of consumer goods sector companies in Nigeria. And Vieira et al. (2019) confirm also confirmed leverage is essential to increase firm performance.

Based on the research findings above, the following hypotheses formulation:

**H2: There is a significant effect of leverage on the performance of manufacturing companies.**

**1.6.3. The effect of the liquidity on the firm performance**

Bist et al. (2017) found that liquidity negatively influences firm performance. Dioha et al. (2018) found that liquidity is not a significant factor in firm performance. Alarussi and Alhaderi (2018) also found that liquidity is not an essential factor in firm performance. Then, Ho and Mohd-Raff (2019) found that liquidity influences firm performance of Shariah-compliant, but not for non-Shariah-compliant firms.

Lasisi et al. (2017) found that liquidity influences firm performance. Likewise, Nanda and Panda (2018) find that liquidity enhances firm performance. As well as Eggunike and Okerekeoti (2018) found that liquidity is an essential factor of return on asset (firm performance). Then, Dioha et al. (2018) demonstrated liquidity affect performance. And Vieira et al. (2019) confirmed liquidity is essential to increase firm performance.

Based on the research findings above, the following hypotheses formulation:

**H3: There is a significant effect of liquidity on the performance of the manufacturing company.**

**1.6.4. The effect of corporate performance on sustainable competitive advantage**

Ho and Mohd-Raff (2019) suggest about the essential to investigate the impact of the external and internal factors on firm performance and to sustain performance for long-term survival. Day et al. (1997), Nustini (2006) stated that performance is the reward from past advantages, so maintain performance is essential to enhance future advantages. Therefore, Maury (2018) called past performance is a vital factor in the sustainable competitive advantage. And Nustini (2006) conclude that the company has to control its performance to sustain its competitive advantage.

Tang and Liou (2010) provide 4 (four) proxies to explain the variables of sustainable competitive advantage with financial ratios, namely customer relationships, supplier relationships, intellectual property, and fixed asset management. Then Tang and Liou (2010) combine these ratios, which form a new proportion called DuPont Identity or known as ROIC (Return on Invested Capital). Yadav et al. (2016) prove that environmental resources enable companies with superior financial performance to maintain their competitive advantage. Lev and Gu (2016) state that company performance (ROA, ROE) determines a company’s ability to maintain its competitive advantage. Based on the theory and research results above, the hypothesis formulation is as follows:

**H4: There is a significant effect of company performance on the sustainable competitive advantage of manufacturing companies.**
1.7. Research model

Figure 1 is a theoretical framework base on above hypotheses.

2. Methodology

Figure 2 is the research methodology.

2.1. Population and sample

The population of the research is the manufacturing companies at the pharmaceutical, cosmetic, and household utility sectors listed on the IDX. This research uses secondary data. The study takes data sources from the company’s financial statements of these companies. Akasha Wira International, Kino Indonesia, Mandom Indonesia, Unilever Indonesia, Darya Varia Laboratoria, Kimia Farma, Kalbe Farma, Merck Sharp Dohme Pharma, Industri Jamu & Farmasi Sido Muncul, Taisho Pharmaceutical Indonesia, Tempo Scan Pacific, which can be accessed on IDX and also the company’s website. The data taken is the financial statements for the period of 2015 to 2018.

2.2. Instrument development

The independent variables of the research are macroeconomic, leverage, and liquidity, the intervening variable is corporate performance, and the dependent variable is a sustainable competitive advantage. The proxies of the external factors are inflation and exchange rate and GDP growth. The proxies of the leverage are Debt to Total Assets Ratio and Debt to Equity Ratio. The proxies of the liquidity are the Current Ratio, Quick Ratio, and Cash Ratio. The proxies of the corporate performance are Return on Asset (ROA), Return on Equity (ROE), and Net Profit Margin (NPM). According to Liou et al. (2015), return on invested capital (ROIC) represents the firm competitive advantage, and financial statements provide a good measurement of competitive advantage. Customer relationship, Supplier relationship, Intellectual property, Fixed asset management are sources of competitive advantage. See Table 2.

2.3. Data analysis technique

This research uses the Partial Least Squares-Structural Equation Modeling (PLS-SEM) technique. Structural Equation Modeling (SEM) is the second generation
method for analyzing multivariate data, which is generally tested and supports additional theoretical linear and causal models. Partial Least Squares (PLS) is software with a Structural Equation Modeling (SEM) approach using data distribution assumptions (Wong, 2013). Furthermore, Wiyono (2011) states that PLS is one SEM technique that can analyze latent variables, indicators, and measurements directly. According to Kock and Hadaya (2018), Structural Equation Modeling (SEM) is currently the quantitative analysis research technique of choice for industry and interdisciplinary researchers. Explosive growth among empirical researchers from various disciplines has occurred because the PLS-SEM measurement provides many available indicators and latent variables.

### 3. Result and discussion

#### 3.1. Measurement model (outer model)

The outer model assessment involves testing individual indicators of reliability, internal consistency reliability, convergent, and discriminant validities (Hair et al., 2012; Dapas et al. 2019; Purwanto & Budiman, 2020; Purwanto & Loisa, 2020; Christian et al., 2020). Hair et al. (2012, p. 426) says that if the outer model testing has proven to be reliable and valid, then it can only be done testing the inner model. So it is clear that the external model assessment is a requirement for conducting an internal model assessment.

According to Hair et al. (2012) to measure internal consistency reliability, do not use Cronbach’s alpha value, but instead use composite reliability value. The composite reliability value must be ≥ 0.70. Table 4 shows that the composite reliability value of all variables is > 0.70, except for the macroeconomic amount, which is 0.611545. However, according to Hair et al. (2011), in exploratory research, 0.60 to 0.70 is still acceptable. Thus it can be concluded that the composite reliability of all variables can be accepted or proven reliable.

#### Table 4. Composite reliability

| Variables               | Composite Reliability | Threshold point | Results |
|-------------------------|-----------------------|-----------------|---------|
| Macroeconomic           | 0.611545              | 0.70*           | Reliable* |
| Leverage                | 0.985455              | 0.70            | Reliable |
| Liquidity               | 0.989927              | 0.70            | Reliable |
| Performance             | 0.950465              | 0.70            | Reliable |
| Sustainability          | 0.722007              | 0.70            | Reliable |

* According to Hair et al. (2011), the composite reliability value 0.60 to 0.70 is still acceptable.
Convergent validity measured using the Average Variance Extracted (AVE) value and the AVE value must be $> \geq 0.50$. Table 5 shows that the AVE value of all variables is $>0.50$, so it the conclusion that the convergent validity value of all variables can be accepted or proven reliable.

Table 5. Average Variance Extracted (AVE)

| Variable     | AVE      | Threshold point | Results |
|--------------|----------|----------------|---------|
| External     | 0.733485 | 0.50           | Valid   |
| Leverage     | 0.971328 | 0.50           | Valid   |
| Liquidity    | 0.970381 | 0.50           | Valid   |
| Performance  | 0.865498 | 0.50           | Valid   |
| Sustainability | 0.566201 | 0.50           | Valid   |

3.2. Evaluation of structural model (inner model)

The inner model test results through bootstrapping show the level of significance of each hypothesis test, as can be seen in Table 6.

Table 6 shows that the influence of external factors on corporate performance is not significant because its T-statistic value is $1.51 < 1.96$, but the effect of leverage on organizational performance is positive and significant because of its T-statistic value is $6.06 > 1.96$. Likewise, the impact of liquidity on corporate performance is significant because its T-statistic value was $2.26 > 1.96$. Still, the effect of the organizational performance on sustainable competitive advantage is not significant because its T-statistic value was $1.43 < 1.96$.

3.3. Discussion

Ireland and Hoskisson (2011) explain that sustainable competitive advantage will depend very much on how companies respond to various external factors and increase the strength or capability of company resources. That is, the sustainable competitive advantage does not only depend on external environmental factors or internal factors alone. Both have an essential role in improving company performance and sustainable competitive advantage.

The results of this study indicate that two hypotheses are significant, but the other two hypotheses are not significant. Internal company factors or company characteristics influence company performance, but external factors do not affect a significant on company performance. Although previous researchers have proved that external factors have a significant effect on corporate performance, this does not always occur because external factors are not the focus of companies. Issah and Antwi (2017), Chowdhury and Rasid (2017), Mwangi and Wekesa (2017), Egbonike and Okerekeoti (2018), Nanda and Panda (2018), Ndlovu and Alagidede (2018), Abaidoo (2019), Vieira et al. (2019) proved the proposition. But, Growe et al. (2014) found that in the U.S. banking sector, external factors did not significantly influence company performance. Likewise, the results of this research test, in which external factors consisting of inflation, GDP growth, and currency exchange rates did not affect the performance of several manufacturing companies.

Internal factors, including liquidity and leverage, have a significant effect on company performance, which is explained by return on assets, return on equity, and net profit margins. The findings of the proof of this hypothesis support the results of previous studies, such as the findings of Chowdhury and Rasid’s (2016) research, Bist et al. (2017), Lasisi et al. (2017), Nanda and Panda (2018), Dioha et al. (2018), Alarussi and Alhaderi (2018) and Ho and Mohd-Raff (2019).

The key to sustainable competitive advantage is not only influenced by the company’s performance. The company’s performance is the result of the company’s response to handling external factors and utilizing the capabilities of company resources (F. R. David & F. R. David, 2015). It can be understood when the findings of this study do not prove that company performance has a significant effect on sustainable competitive advantage. That is because the company’s performance itself only significantly influenced by internal company factors but not significantly influenced by external environmental factors.

Conclusions and future research

This study finds that the competitive advantage of an industry or company can not only rely on one factor, from external or internal environmental factors. This study also finds that the company’s performance does not necessarily create the company’s competitive advantage. The results show that: (1) the influence of external factors on company performance is not proved in this study. These results indicate that companies in the manufacturing industry
The results of this study reinforce the belief of theoretical experts in the field of strategic management that the performance and competitive advantage of continuing an industry or company cannot only be oriented to one paradigm, for example, an industrial organization, or resources-based view. These two factors are essential, and together must be seen as a significant determinant of the performance and sustainability of a company’s competitiveness. Thus it is recommended to further researchers to add external and internal factors to test other essential determinants in improving the performance and sustainability of the company’s competitiveness.

Base on the conclusion, it is the recommendation for future research: First, examine the conceptual model to examine the determinants of firm performance and sustainability among outside manufacturing companies. Second, include other factors as interest rate, innovation, firm size, and age into the model. Third, conduct a comparative study to measure the impact of the factors on performance between companies with higher and lower performance.

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