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DOES THE MARKET REACT TO THE REPUTATION OF CAPITAL **EXPENDITURE?**

current performance.

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ABSTRACT A phenomenon found in several case studies shows that investors are more interested in

the projection of firm value than in periodic financial performance. Therefore, this study aims to prove whether the reputation of capital expenditure is an indication of a promising future for the company, so that it responds positively to the market. The research samples used were companies that had the highest shares increase in their sectors during the 2017Q1 to 2019Q2 period. We used Tobin's Q (TQ) and cumulative

abnormal return (CAR) as proxies for market response. The findings of this study are, first, that the market responded positively to the reputation of corporate capital expenditures, as seen from asset growth. Second, in the sample group with positive asset growth trends in the last five years, the reputation of capital expenditures as proxied by total assets and total fixed assets consistently received positive responses from investors.

Third, the market responded negatively or had no response to capital expenditures made

by companies that had a negative growth trend. The results of this study invalidate the

findings of previous studies, that good financial performance responds positively. This study proves that capital expenditures are more of a concern to investors than their

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This study is one of very few studies which have investigated the increasing of firms' value through all optimal capital spending efforts. Furthermore, the existing and potential investors could earn more benefit n reassess the way they evaluated firms' capital spending.

1. INTRODUCTION

The existence of a product life cycle or trend in society forces companies to keep investing (Hasan & Habib, 2017). This condition requires new investments. The need for new investment causes companies to manage cash

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flow, especially for investment, so that the company does not lose its ability to maintain growth and increase market share in accordance with the business world's development trend.

For new investment projects with fixed assets and R&D costs, project expenditure in general does not have an impact on financial performance, because during the installation period of fixed assets or R&D, assets and research results are not able to support the company's revenue. At the same time, the need for cash flow from investment (CFI) increases and affects the company's overall cash flow. This phenomenon is quite surprising because companies that made capital expenditures are appreciated positively by investors. For example, regarding the AMFG (PT. Asahimas Flat Glass Industry) shares, it was noted that the AMFG share price rose 86% on July 1, 2019, even though its financial performance was only 3.4%. Return on Assets (ROA) was below the average ROA for the basic industry at that time Figure 1. At the same time, AMFG's capital expenditure increased. This indicates that investors read an increase in the value of capital expenditure above average in the basic industrial sector on the Indonesia Stock Exchange (IDX), as a good signal for AMFG stock prices Figure 1.

The stock price rises before the company's performance shows improvement, because the indication of the increase in capital expenditure gives investors hope of a better future for the company.

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In the case of Astra Agro Lestari Tbk. (AALI), the chart of the issuer AALI shows that its fixed assets are stagnant, total assets increase, and the debt to equity ratio (DER; debt burden) decreases; however, Tobin's Q (TQ) is falling. This means that even though the risk of the business decreases, the share price will still decrease. The decline in share price when the cost of debt decreases indicates that investors are worried about a company's future because there is no new investment in the form of fixed assets, and therefore no hope that the company's performance will increase in the future.

Capital spending is a way for companies to improve their performance and competitiveness by investing in fixed assets and R&D costs (Zhao, Qu, & Luo, 2019). Capital spending is important for creating a company growth cycle (S-curve, see Figure 2) that is continuous and overlapping in order to reduce the negative effect of products in the decline phase (Catalini & Tucker, 2016).



The reputation of firms that undertake capital spending from an investor's perspective is an area that has the potential for further study. The phenomenon highlighted by preliminary studies indicates that investors appreciate companies that undertake capital spending, even though their current financial performance is not always good. This is because capital spending indicates the future of a company (Chan, Martin, & Kensinger, 1990). This is in contrast to previous studies (Anilowski, Feng, & Skinner, 2007; Bali, Demirtas, & Tehranian, 2008; Ball & Brown, 1968; Ball.., Sadka, & Sadka, 2009) which generally associate the current year's performance with changes in stock prices. This study aims to prove that capital spending whose results cannot be realized in the short term will be appreciated by investors.

This research is important because resources are limited, and misallocation of resources will impact not only investors but also society at large. To obtain a comprehensive conclusion, this study uses long-term data in quarterly frequencies to prove that stock value is related to a company's future, and not just its current performance, let alone past performance. A company's future is marked by growth in capital spending. Growth serves as a signal for investors regarding a company's future value. Investors' enthusiasm for a company's future invalidates the belief that has been built on the results of previous research which suggests that companies with poor financial performance receive negative responses. The phenomenon found in the above case examples shows that investors are more interested in the projected value of the firm. Investors will continue to positively assess companies whose periodic performance is below expectations when they know that the company is making capital expenditures to maintain future growth.

2. LITERATURE REVIEW AND HYPOTHESIS DEVELOPMENT

2.1. Signaling Theory

Signaling theory has been widely applied in the context of information disparity between two parties (Spence., 2002; Stiglitz, 2002; Taj, 2016). Management takes certain actions in the hope of receiving a response from other parties (investors), as intended by management. According to the signaling model (Engers, 1987) one of the objectives of a company to carry out external funding in financing expansion is to signal investors that the company's fundamentals are strong, because only very strong companies run the risk of experiencing financial

difficulties when the debt portion is relatively high. Jensen and Meckling (1976) in their agency theory proposed increasing the debt portion as a mechanism to reduce agency problems. The greater the company's debt, the smaller the idle funds that managers can use for unnecessary expenses.

A good company distinguishes itself from a bad company by sending a quality signal that a bad company is unlikely to imitate (Spence, 1973). Otherwise, the signal cost is higher for the bad type than for the good type, and bad types may be useless to replicate. Similarly, from the perspective of signal theory, capital spending aims to provide a message to outsiders, especially investors, that the company has the potential to continue to provide returns for investors in the future (Diamond, 1989).

2.2. Reputation of Company's Capital Spending and Company's Growth

The main driver of the modern economy is the use of new technology and production processes that are more capital-intensive. To achieve this, the company needs adequate financial, technical, and human resources. Companies need to undertake capital spending to optimize these new investment opportunities. Expenditures for the purchase of fixed assets are capital spending and R&D spending, which is a form of capital spending.

According to signaling theory, capital investment is a signal that managers want to show that the company has high performance prospects. This signal is important in the capital market, which is characterized by information asymmetry between the internal and external parties of the company (Ambarish, John, & William, 1987; John & Nachman, 1985; Miller. & Rock, 1985). The investment spending made by the manager can provide a reliable signal about a company's cash flow.

A significant increase in share price occurs when a company announces that it will increase its capital expenditures, including spending on R&D, and conversely, the stock price will react negatively when there is a reduction in capital expenditure (Rajan & Zingales, 1995). Companies that issue new shares to fund the development of the company receive a smaller negative response than an established company that announces that it will issue new shares (Pillote, 1992). Capital expenditure produces information about future earnings that cannot be captured in the current period income (Kerstein & Kim, 1995).

In the real world, capital expenditures are not only a single action in a single stage, but a series of capital expenditures in every stage of the life cycle. Each stage of the life cycle requires capital expenditure to connect the stages of the life cycle so that it does not fall in the middle (Shahzad, Lu, & Fareed, 2019). Company life cycles can be identified using indicators such as cash flow from operating (CFO), cash flow from financing (CFF), or cash flow from investing (CFI). The life cycle begins at the introduction stages, leading to growth, maturity, and finally decline. The introduction phase is marked by negative CFO and CFI, while CFF is positive (Miller & Friesen, 1984). In this phase, fixed costs often burden a company's turnover. The company needs more cash to make an initial investment to develop its market position.

The crucial phase lies in the decline phase, which is indicated by a decline in sales and negative earnings. This is due to the cessation of innovation. The decrease in liquidity of company assets affects the continuation of business and expenses like paying creditors; therefore, CFI will not be zero. Dickinson (2011) found that a falling CFF could occur in CFF > 0 or CFF <0. At this stage, it becomes a challenge for management to be able to produce the S-curve, so that the company remains sustainable. Capital expenditure will prop up the company in this difficult situation in order for the company to get through this condition and return up.

In this study, the reputation of capital expenditure is indicated by the growth of fixed assets and the addition of the company's total assets per quarter. Companies that continuously invest in capital expenditure promise a continuous increase in value in the future.

2.3. Hypothesis Development

The growth in capital expenditure over the years shows the reputation of the company's capital expenditure, which in turn is a signal of a company's growth opportunity (Diamond, 1989; Masulis, 1980; McConnell & Muscarella, 1985). Capital expenditure growth is indicated by an increase in fixed or total assets. The increase in fixed assets indicates that the company's future productivity will be better, and the growth in these expenditures means innovation and increases the quality of output. The increase in capital expenditure also provides an expectation that potential financial performance (ROA) will increase (Kerstein & Kim, 1995). Increased capital expenditure, in contrast, has an impact on increased risk; however, the capital expenditure for the company. If the company is in a position of declining or stagnant capital expenditure, then for investors, this is a worry because it signals a less promising future.

Investment decisions made by companies are considered value-enhancing actions by the market. In their research, Moser, Isaksson, Okwir, and R.W. (2021) used annual fixed asset expenditures and found that capital expenditure responded negatively in the short term but positively in the long term. A number of other studies document investors' appreciation of investment decisions made by companies (Akbar, Ali Shah, & Saadi, 2008; Chan et al., 1990; Jones, Danbolt, & Hirst, 2004; Jung, Kim, & Stulz, 1996; McConnell & Muscarella, 1985). Chan et al. (1990) found that announcements related to the company's decision to relocate its head office, subsidiary, factory, or business unit were seen as decisions that had implications for the company's prospects. The market does not necessarily assess the company's performance as poor when the investment still takes a long time to realize the results (Jones et al., 2004). Research findings by Akbar et al. (2008) show a significant relationship between capital expenditure announcements and stock market prices. McConnell and Muscarella (1985) found that, in general, an increase or decrease in capital expenditure is followed by an increase or decrease in stock prices.

Investor responses in this study were measured using two proxies: TQ and cumulative abnormal return (CAR). These two proxies are often used interchangeably in previous studies to represent market responses (Akbar et al., 2008; Brailsford & Yeoh, 2004; Woolridge & Snow, 1990). TQ is the total value of a company's assets from an investor's point of view, where TQ is a combination of the market value of equity and the book value of debt (Chung, Wright, & Charoenwong, 1998). Investors' responses to a company's capital expenditure will be comprehensively reflected in the company's value. At the same time, investors' appreciation of a company's capital expenditure decisions can also be indicated directly from changes in share prices (Brailsford & Yeoh, 2004). To prove the consistency of the effect of corporate capital spending, capital expenditure growth, and capital expenditure growth trends, this study uses both proxies.

Based on the description above, the following hypothesis is developed:

Hypothesis 1: Fixed asset growth affects firm value.

The capital expenditure growth trend is a signal to investors about the company's future; companies that have a growth trend indicate that they have promising business prospects. Meanwhile, companies whose capital expenditure growth trend is negative indicates that they are heading for a decline, which certainly threatens the future of investors; therefore, the market will respond negatively. Hence, the next set of hypotheses are as follows: When the trend of capital expenditure increases, it is hypothesized as follows:

Hypothesis 2A: Total assets have a positive effect on firm value.

Hypothesis 2B: Total fixed assets have a positive effect on firm value. When the trend of capital expenditure falls, it is hypothesized as follows:

Hypothesis 3A: Total assets have a negative effect on firm value.

Hypothesis 3B: Total Fixed Assets have a negative effect on firm value.

3. RESEARCH METHOD

3.1. Sample

The research sample comprised publicly traded companies listed on the Indonesia Stock Exchange. Companies were selected based on the following criteria:

- 1. Issuers listed on the IDX during the 2017Q1 to 2019Q2 period.
- 2. Research objects are excluded for the financial and the service sectors.
- 3. Issuers with incomplete data are ignored, because this is related to information disclosure; the more incomplete the information disclosed by the company, the more difficult it is for investors to assess the company's future.
- 4. Firms undertook capital expenditures during the study period.
- 5. Ten companies with the highest increase in shares in each sector during the study period were selected as samples. The selection of the company with the highest increase was due to the fact that we found a significant difference in the characteristics of financial performance between companies that experienced the highest increase in stock prices and those that experienced the lowest increase in stock prices. Some companies that were at the lower limit did not have significant capital expenditure activities. To avoid bias, we included only companies with the highest share increments.

3.2. Analysis Model

Hypothesis testing was carried out in stages. First, we tested hypothesis 1 to prove that the reputation of capital expenditures, as measured by the growth in total fixed assets, affects firm value. After that, the sample was divided into two sample groups based on the trend of capital expenditure growth over the last five years. Companies experiencing a positive growth trend were separated from the sample that had a negative growth trend (as desribed in equation (3)). Then, each sample group was tested separately to prove hypotheses 2A and 2B (using equation (1)), anda 3A and 3B (using equation (2)). The analysis model for each hypothesis is as follows: Hypothesis 1

$$\begin{split} MR \ all_{i,t} \ = \ \beta_0 + \beta_1 GFA_{i,t-1} + \beta_2 LOGTA_{i,t-1} + \beta_3 FATA_{i,t-1} + \ \beta_4 ROA_{i,t-1} + \beta_5 DER_{i,t-1} + \\ Hypothesis \ 2A, \ 2B \end{split}$$

 $MR growth_{i,t} = \gamma_0 + \gamma_1 LOGTA_{i,t-1} + \gamma_2 FATA_{i,t-1} + \gamma_3 ROA_{i,t-1} + \gamma_4 DER_{i,t-1} + \varepsilon_t$

Hypothesis 3A, 3B

MR not – growth	$h_{i,t} = \phi_0 + \phi_1 LOGTA_{i,t-1} + \phi_2 FATA_{i,t-1} + \phi_3 ROA_{i,t-1} + \phi_4 DER_{i,t-1} + \varepsilon_t $ (3)
Where:	
$MR \ all_{i,t}$: market response of firm i for period t, for all samples
$MR \ growth_t$: market response of firm i for period t, for the growth sample
MR not-grov	wthu: market response of firm i for period t, for the non-growth sample
$GFA_{i,t-i}$: growth of total assets firm i for t-1period
$LOGTA_{i,t-i}$: log total assets firm i for t-1 period
$FATA_{i,t-i}$: the proportion of fixed assets to total assets of firm i in period t-1
$ROA_{i,t-1}$: return on assets firm i for t-1 period

DER_{i,t-1} : debt to equity ratio firm i for t-1 period

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3.3. Operationalization of Variables

The operationalization of the variables used in this study is described below.

- Capital spending is proxied by the expenditure of total assets quarterly and total fixed assets quarterly. Total assets are measured by the logarithm of total assets (LOGTA), while total fixed assets are measured by total fixed assets (FATA).
- 2. Capital spending growth (GFA) is measured by calculating the current total fixed assets divided by the previous period's total fixed assets.
- 3. ROA is a measure of financial performance, which in this case is calculated by dividing net income by total assets.
- 4. DER is a measure of a company's risk, obtained from total liabilities divided by total assets.
- 5. Market response (MR) in this study is proxied by TQ and CAR. TQ combines the total value of the company's assets from an investor's perspective, where TQ is calculated from the market value of equity shares plus the book value of total liabilities.
- 6. As decribed in equation (7), CAR is calculated using a market model with an estimated period of 60 days before the date of publication of the quarterly report, and the event period for calculating CAR is 10 days before day of publication, the day of publication, and 10 days after the publication day of the quarterly financial statements. After calculating stock returns and market returns during the estimation period, the next step is to estimate β by regressing stock returns and market returns, as follows in this following equation (4):

$$R_{it} = \alpha + \beta_i R_{mt} + \varepsilon_{it} \tag{4}$$

The next step was to calculate the expected return and abnormal return as follows stated in these following equations $\lceil (5) \rceil$:

$$E(R_{it}) = \alpha + \beta_i R_{mt}$$

$$AR_{it} = R_{it} - E(R_{it})$$



Next, the CAR during the event window period for -10, 0, + 10 was calculated using the following formula:

$$CAR_i = \sum_{t=10}^{t+10} AR_{it}$$

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4. RESULTS

4.1. Sample Profile

The number of companies registered on IDX during the 2017Q1 to 2019Q2 research period was 644 companies, 324 of which did not have complete financial data and came from the financial sector, leaving 320 companies. Based on the criteria of 10 companies per sector with the highest increase in shares, 35 companies were selected out of 320 companies, or a total of 280 firm years during the study period. Of these, 71 did not have stock price data for the past 60 days, so they were excluded from the sample, and the final total sample was 209 firm years.

The sample profiles of the research variables are presented in Table 1. Panel A is the sample group that has positive capital expenditure growth throughout the study period, Panel B shows the sample profile with negative growth, and Panel C shows the profile of all samples.

Table-1. Descriptive statistics.

Panel A					Panel	Panel B			
Positive Growth (155)				Negat	Negative Growth (54)				
	Min	Max	Mean	Sdt Dev	Min	Max	Mean	Sdt. Dev	
FATA	,18	,96	,63	,18	,30	,65	,50	,10	
LOGTA	7,83	13,46	10,77	1,81	8,12	12,54	10,82	1,78	
ROA	-,09	,15	,02	,031	-,02	,08	,025	,022	
DER	,33	4,03	1,49	,78	,07	1,84	,69	,60	
TO	,01	4,32	,75	1,03	,30	,82	,51	,16	

Table-1. Continue

Panel C								
All samples (209)								
	Min	Max	Mean	Sdt Dev				
FATA	,18	,96	,59	,17				
LOGTA	7,83	13,46	10,82	1,78				
ROA	-,09	,15	,02	,03				
DER	,07	4,03	1,25	,82				
TQ	,00	4,32	,69	,88				

Companies that were growing had a higher average TQ (0,75) than companies that had negative growth, which only had a TQ of 0.5. This shows that investors appreciated companies that were growing compared to companies that were not growing or had negative growth. The average capital expenditure of growing companies (FATA) was 0.80, higher than that of companies in the negative growth group, whose FATA value was only 0.50. Interestingly, the ROA of companies with positive growth was not better than that of companies with negative growth. This shows that growth in capital expenditure is not directly related to short-term financial performance. Judging from the capital structure, growth companies have a capital posture that is mostly funded by debt, as can be seen from the average DER value of 1.49; thus, from the risk side, companies that are growing have a higher risk than companies that are not growing.

4.2. Hypothesis Testing

The first hypothesis aims to prove that a company's actions to invest in capital expenditures provide a signal for growth, and that this will be responded positively by investors. The results of testing Hypothesis 1 are presented in Table 2. The GFA had a positive and significant coefficient at the 0.01 level. Investors responded positively to growth signals, proxied by growth in capital expenditure. In addition, capital expenditure, proxied by LOGTA and FATA, both had a positive and significant coefficient at the 0.01 level. Investors appreciated the capital expenditures made by companies because they indicated expectations for the company's future. These results were fairly consistent across both proxies of market response, with both TQ and CAR. The test results supported Hypothesis 1 that the market responds positively to companies that show signals of capital expenditure growth.

Financial performance in the form of ROA had a significant negative effect, which means that the investor responds otherwise. Growth signals dominate, so periodic performance, such as ROA, is less of a concern for investors. Investors respond negatively to corporate risk (DER) because the debt-dominated capital structure will increase the company's risk in the future.

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	Tobin's Q			CAR		
Variable	β	t-value	Sig	β	t-value	Sig
GFA	,701	2,026	**	,364	5,995	***

FATA	2,392	7,083	***	-25,534	-6,118	***
LOGTA	25,139	6,013	***	1,992	5,793	***
ROA	-,159	-2,644	***	-,010	-1,78	
DER	-,157	-2.116	***	-,219	-3,657	***
Constant	-9,514	-5,723	***	-7,148	-4,921	***
R²∕Adj R²	,371			0,436		
F	18,582		***	25,610		***

The trend of capital expenditure growth over time indicates the company's commitment to continue to strive to maintain and increase value to shareholders. Hypothesis 2 (see Table 3) examines investors' responses to capital expenditures by companies in the sample group, which has a positive growth trend. Companies over the past five years that had positive capital expenditure growth trends were tested separately. The results consistently showed that in this sample group, capital expenditure, which is proxied by LOGTA and FATA, had a positive response from investors. In a company that has positive growth, investors understand that debt increases as a source of capital expenditure, so that DER does not affect investors' responses.

Companies that have a positive capital expenditure growth trend are able to provide added value and significant competitiveness so that the company will be able to control a larger market share in the future, which in turn will enable investors to enjoy good financial performance. The results of testing Hypothesis 2 prove that the market responds positively to capital expenditures made by growing companies, and this result is consistent with both TQ and CAR proxies.

Table-3. Hypothesis 2A, 2B.									
	Tobin's Q			CAR					
Variable	β	t-value	Sig	β	t-value	Sig			
FATA	2,448	5,506	***	1,264	2,109	**			
LOGTA	25,386	4,644	***	16,043	2,223	**			
ROA	-,198	-2,755	***	-,113	-1,151				
DER	-,106	-1,278		-,103	-,952				
Constant	-9,261	-4,190	***	-2,508	-1,691	*			
R²∕Adj R²	,405			,224					
F	17,209		***	10,181		***			

The results of Hypothesis 3 (see Table 4) indicate that for the sample group that has a negative growth trend, the results are indeed different, and tend to be inconsistent for each of the proxies for capital expenditure, namely FATA and LOGTA. Capital expenditure, which is proxied by total assets, has a negative response because in companies with a negative growth trend, continuity of capital expenditure cannot be expected. Investors doubt the company's ability to update its assets. Meanwhile, the market still believes more on capital expenditure, which is proxied by FATA, even though the company has a negative growth trend. The addition of fixed assets will support the company to continue its operations and signal the company's ability to survive in the future.

In the condition of companies experiencing negative capital expenditure growth, investors refocus their attention on periodic financial performance, and it is evident that ROA responds positively to the market, although this result is inconsistent when market reactions are measured by CAR. In the CAR model, ROA does not affect the market reactions.

Table-4. Hypothesis 3A, 3B.							
	Tobin's Q			CAR			
Variable	β	t-value	Sig	β	t-value	Sig	
FATA	,259	1,749	*	,304	1,814	*	
LOGTA	-,318	-1,973	*	,048	,262		
ROA	,497	3,552	***	-,113	-1,151		

DER	,019	,100		,165	1,080	
Constant	,481	2,500	**	,310	1,475	
R²/Adj R²				,036		
F	3,797		***	1,823		*

4.3. Discussion

Capital expenditure is a signal sent by the company to the market that the company has a high value (Trueman, 1986), and that the company is well prepared to anticipate various changes in the future. The phenomenon of AMFG and AALI stocks discussed in the background section has strong empirical support; investors pay more attention to company prospects rather than periodic performance. Companies that have good performance but are not growing respond negatively to the market.

Our findings prove that capital expenditure is a function of stock price and firm value, where capital expenditure explains more strongly changes in firm value than periodic financial performance, such as ROA. This is in line with the findings of previous studies (Trueman, 1986), suggesting that capital expenditure may be able to perfectly reveal management information, with a higher level of signaling with more favorable information. Other studies (Jones et al., 2004; Moser et al., 2021), although in a slightly different setting, found that capital expenditures signal a better future, and therefore have a positive response from the market. In all hypotheses, ROA is not proven to be a variable of concern for investors. The market pays more attention to a company's capital expenditure variables. This proof simultaneously invalidates previous findings regarding the market response to financial performance (Anilowski et al., 2007; Bali. et al., 2008; Ball & Brown, 1968; Ball.. et al., 2009). Market response shifts when it is related to the capital expenditure variable. The role of ROA is less significant when it is added to the capital expenditure aspect.

This study also finds that asset growth and the amount of annual or periodic asset expenditure or fixed assets are good proxies for capital expenditure. In previous studies, generally using capital expenditure announcements as a proxy for capital spending, we must choose another proxy, because not all companies announce their capital expenditure actions, especially if capital expenditure is strategic (Jones et al., 2004). The findings of this study contribute to existing research related to the proxies for capital expenditure, which can be proxied by the growth of fixed assets, addition of total assets, or fixed assets. These three proxies for capital expenditure consistently influence market responses.

Another important finding is that the market focuses on trends in corporate capital expenditure. The trend of capital expenditure growth shows the company's commitment to continue to maintain its existence. Companies have their own life cycles; each stage of the cycle requires capital investment so that the company can continue to grow and survive, especially in companies that are at a stage of decline. Capital expenditure plays a role in preventing the company from declining and allows it to grow and reach the next life cycle curve. This research is not yet on proving whether capital expenditure provides a shield that keeps companies from leaving the market and leads them to enter the next phase of the life cycle. This provides further research opportunities to address this issue.

From a risk perspective, companies that make capital expenditures have the potential to increase their DER. The market responds to this risk realistically, and the big risk responds negatively. However, investors still see the positive side of this risk, because companies that have high risk but positive asset growth have received a positive response from the market. A high DER also indicates a great deal of confidence in the company to be able to finance capital expenditure needs from debt, and this further increases the company's market confidence.

The results of this study have several implications for their management. The market response describes the market appreciation of company performance. Companies that get a good assessment from the market will certainly benefit as the company's value increases. Therefore, management needs to manage capital expenditures appropriately, and the accuracy of capital expenditures will be proven through the achievement of good financial

performance in the following periods, according to market expectations. This is what makes investors maintain their investments by appreciating the company's capital expenditure actions. Capital expenditures will also help management save companies that are in the decline phase, and it is hoped that with the right capital expenditure management can pass this phase and still exist in the market.

This study had several limitations. First, given the limited data available, we do not differentiate between the types of capital expenditures made by the company, whether internal investment in the form of production machines, acquisitions, mergers, or business diversification. Second, there are not many companies that can be sampled, because some companies that meet the criteria do not have a significant increase in shares during the study period; to avoid bias in results, these companies were excluded from the study sample. The results of this study can be refined by expanding the research period, and only specifically for companies that make capital expenditures and disclose them to the public, not only based on the addition of total assets or fixed assets.

5. CONCLUSIONS

Companies need new investments to be sustainable. The company periodically needs to adjust the assets used for current production so that it can continue to be competitive in the future. It is as if the company is being forced to increase investment so that it does not lose momentum following the development of existing market trends. The size of the new investment determines the future of the company. In the capital market, investors consider the stock price to be directly proportional to the prospects of the company's future financial performance. From the perspective of investors, the reputation of companies that carry out capital spending is important for further study.

The results support the hypothesis that the reputation of asset expenditures as measured by asset growth and periodic expenditures on fixed assets and fixed assets, has a significant influence on market response, as proxied by TQ and CAR. Growth trends differentiate the market response to a company's reputation for capital expenditure. Companies that have a positive growth trend receive a positive response to their capital expenditures, and vice versa. Periodic capital expenditures provide a signal that the company is committed to maintaining its presence in the market, and such companies promise good returns in the future. Proxies for capital expenditures, both measured by asset growth and periodic expenditures on assets and fixed assets, show consistent results in explaining investor responses. This study adds to the evidence that investors respond more to capital expenditure than to periodic financial performance. Investment is a matter of the future; therefore, investors are looking for companies that promise a good future, and capital expenditures are one of the indicators of a good future.

The findings of this study provide a number of managerial implications, including that managers need to pay attention to the management of asset expenditures for two reasons. First, the market appreciates the capital expenditure, which will increase the value of the company. Second, capital expenditures that are carried out from time to time will help raise the company from the decline phase to the next life cycle phase, so that the company will be able to continue to be sustainable.

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	Tobin's Q			CAR		
Variable	β	T-value	Sig.	β	T-value	Sig.
GFA	.701	2.026	**	.364	5.995	***
FATA	2.392	7.083	***	-25.534	-6.118	***
LOGTA	25.139	6.013	***	1.992	5.793	***
ROA	159	-2.644	***	010	-1.78	
DER	157	-2.116	***	219	-3.657	***
Constant	-9.514	-5.723	***	-7.148	-4.921	***
R²/Adj R²	.371			0.436		
F	18.582		***	25.610		***

Table 3. Hypotheses 2A and 2B.

		Tobin's Q			CAR	
Variable	β	T-value	Sig.	β	T-value	Sig.
FATA	2.448	5.506	***	1.264	2.109	**
LOGTA	25.386	4.644	***	16.043	2.223	**
ROA	-0.198	-2.755	***	-0.113	-1.151	
DER	-0.106	-1.278		-0.103	-0.952	
Constant	-9.261	-4.190	***	-2.508	-1.691	*
R²/Adj R²	0.405			0.224		
F	17.209		***	10.181		***

Table 4. Hypotheses 3A and 3B.

		Tobin's Q			CAR	
Variable	β	T-value	Sig.	β	T-value	Sig.
FATA	0.259	1.749	*	0.304	1.814	*
LOGTA	-0.318	-1.973	*	0.048	0.262	
ROA	0.497	3.552	***	-0.113	-1.151	
DER	0.019	0.100		0.165	1.080	
Constant	0.481	2.500	**	0.310	1.475	
R²/Adj R²				0.036		
F	3.797		***	1.823		*



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DOES THE MARKET REACT TO THE REPUTATION OF CAPITAL EXPENDITURE?

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ABSTRACT

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Keywords Capital expenditure Cumulative abnormal return Financial performance Market reaction Tobin's Q.

~ JEL Classification: A phenomenon found in several case studies shows that investors are more interested in the projection of firm value than in periodic financial performance. Therefore, this study aims to provedetermine whether the reputation of capital expenditure is an indication of a promising future for thea company, so that it responds positively to the market. The research samples used were companies that had the highest shares-increase in shares in their sectors during the 2017Q1Q12017 to 2019Q2Q22019 period. We used Tobin's Q (TQ) and cumulative abnormal return (CAR) as proxies for market response. The findings of this study are, first, that the market responded positively to the reputation of corporate capital expenditures expenditure, as seen from asset growth. Second, in the sample group with positive asset growth trends in the last five years, the reputation of capital expenditures asexpenditure, proxied by total assets and total fixed assets. consistently received positive responses from investors. Third, the market responded negatively, or had no response, to capital expenditures expenditure made by companies that had a negative growth trend. The results of this study invalidate the findings of previous studies; that good financial performance responds positively. This study proves that the capital expenditures are expenditure of a company is more of a concern to investors than theirits current performance.

Contribution/Originality: This study is one of the few studies that investigates the impact of capital expenditures<u>expenditure</u> on long-term performance. Furthermore, this study strengthens the argument that investors are more interested in the<u>a</u> company's future projections than just<u>its</u> short-term performance, as found in previous studies.

1. INTRODUCTION

The existence of a product life cycle or trend in society forces companies to keep investing (Hasan & Habib, 2017). This, and this condition requires <u>continuous</u> new investments. The need for new investment eausesdrives companies to manage cash flow <u>efficiently</u>, especially for investment, so that the <u>company doescompanies do</u> not lose <u>itstheir</u> ability to maintain growth and increase market share in accordance with the business world's development trend.

For new investment projects with fixed assets and R&D costs, project expenditure in general does not have an impact on financial performance, because during the installation period of fixed assets or R&D, assets and research results are not able to support the company's revenue. At the same time, the need for cash flow from investment (CFI) increases and affects the company's overall cash flow. This phenomenon is quite surprising because companies that <u>madehave</u> capital <u>expendituresexpenditure</u> are appreciated<u>-positively</u> by investors. For example, regarding the AMFG (PT. Asahimas Flat Glass Industry) shares, it was noted that <u>the AMFGits</u> share

price rose <u>by</u> 86% on July 1, 2019, even though its financial performance was only 3.4%. Return%, and its return on Assets<u>assets</u> (ROA) was below the average ROA for the <u>basie</u>-industry at that time (<u>see</u> Figure 1-). At the same time, AMFG's capital expenditure increased. This indicates that investors read an increase in the value of capital expenditure above average in the basic industrial sector on the Indonesia Stock Exchange (IDX), as a good signal for AMFG stock prices Figure 1.

The stock price rises before the company's performance shows improvement, because the indication of the increase in capital expenditure gives investors hope of a better future for the company.





1

In the case of Astra Agro Lestari Tbk. (AALI), the chart of the issuer AALI shows that its fixed assets are stagnant, <u>its_total</u> assets increase<u>increased</u>, and <u>theits</u> debt to equity ratio (DER; <u>debt_burden</u>) <u>decreases</u>)

<u>decreased</u>; however, <u>the</u> Tobin's Q (TQ) is <u>fallingfell</u>. This means that even though the risk of the business <u>decreased</u>, the share price will still decrease. The decline in share price when the cost of debt decreases indicates that investors are worried about a company's future because there is no new investment in the form of fixed assets, and therefore no hope that the company's performance will <u>increaseimprove</u> in the future.

Capital spending is a way for companies to improve their performance and competitiveness by investing in fixed assets and R&D costs (Zhao, Qu, & Luo, 2019). Capital spending is important for creating a company growth cycle (S-curve, see Figure 2) that is continuous and overlapping in order to reduce the negative effect of products in the decline phase (Catalini & Tucker, 2016).



Figure -2. S-Curve.

I

The reputation of firms that undertake capital spending from an investor's perspective is an area that has the potential for further study. The phenomenon highlighted by preliminary studies indicates that investors appreciate companies that undertake capital spending, even though their current financial performance is not always good. This is because capital spending indicates the future of a company (Chan, Martin, & Kensinger, 1990). This is in contrast to previous studies (Anilowski, Feng, & Skinner, 2007; Bali, Demirtas, & Tehranian, 2008; Ball & Brown, 1968; Ball, Sadka, & Sadka, 2009) which generally associate the current year's performance with changes in stock prices. This study aims to prove that capital spending whose results cannot be realized in the short term will be appreciated by investors.

This research is important because resources are limited, and misallocation of resources will impact not only investors but also society at large. To obtain a comprehensive conclusion, this study uses long-term data in quarterly frequencies to prove that stock value is related to a company's future, and not just its current performance, let alone past performance. A company's future is marked by growth in capital spending. Growth serves as a signal for investors regarding a company's future value. Investors' enthusiasm for a company's future invalidates the belief that has been built on the results of previous research which suggests that companies with poor financial performance receive negative responses. The phenomenon found in the above case examples shows that investors are more interested in the projected value of the firm. Investors will continue to positively assess companies whose periodic performance is below expectations when they know that the<u>a</u> company is making capital expenditures to maintain future growth.

2. LITERATURE REVIEW AND HYPOTHESIS DEVELOPMENT

2.1. Signaling Theory

Signaling theory has been widely applied in the context of information disparity between two parties (Spence, 2002; Stiglitz, 2002; Taj, 2016). Management takes certain actions in the hope of receiving a response from other parties (investors), as intended by management.]. According to the signaling model (Engers, 1987), one of the objectives of a company to carrycarrying out external funding in financingis to finance expansion is to and signal to investors that the company's fundamentals are strong, because only very strong companies run the risk of experiencing financial difficulties when the proportion of debt portion-is relatively high. In their agency theory, Jensen & Meckling (1976)-in their agency theory proposed increasing the debt portion-as a mechanism to reduce agency problems. The greater the company's debt, the smaller the idle funds that managers can use for unnecessary expenses.

A good company distinguishes itself from a bad company by sending a quality signal that a bad company is unlikely to imitate (Spence, 1973). Otherwise, the signal cost is higher for the bad type than for the good type, and bad types may be useless to replicate. Similarly, from the perspective of signalsignaling theory, capital spending aims to providesend a message to outsiders, especially investors, that thea company has the potential to continue to provide returns for investors in the future (Diamond, 1989).

2.2. Reputation of Company's Companies' Capital Spending and Company's Growth

The main driver of the modern economy is the use of new technology and production processes that are more capital-intensive. To achieve this, the company needs adequate financial, technical, and human resources. Companies need to undertake capital spending to optimize these new investment opportunities. <u>ExpendituresExpenditure</u> for the purchase of fixed assets <u>areinclude</u> capital spending and R&D-<u>spending</u>, which is a form of eapital spending.

According to signaling theory, capital investment is a signal that managers want to show that the company has high performance prospects. This signal is important in the capital market, which is characterized by information asymmetry between the internal and external parties of the company (Ambarish, John, & William, 1987; John & Nachman, 1985; Miller & Rock, 1985). The investment spending made-by the managermanagement can provide a reliable signal aboutregarding a company's cash flow.

A significant increase in share price occurs when a company announces that it will increase its capital expenditures expenditure, including spending on R&D, and conversely, the stock price will react negatively when there is a reduction in capital expenditure (Rajan & Zingales, 1995). Companies that issue new shares to fund the development of the company receive a smaller negative response than an established company that announces that it will issue new shares (Pillote, 1992). Capital expenditure produces information about future earnings that cannot be captured in the current period income (Kerstein & Kim, 1995).

In the real world, capital expenditures are expenditure is not-only a single action in a single stage, but a series of capital expenditures in every stage of the life cycle. Each stage of the life cycle requires capital expenditure to connect the stages of the life cycle so that it does not fall in the middle (Shahzad, Lu, & Fareed, 2019). Company life cycles can be identified using indicators such as cash flow from operating (CFO), cash flow from financing (CFF), or cash flow from investing (CFI). The life cycle begins at the introduction stages, leading to growth, maturity, and finally decline. The introduction phase is marked by negative CFO and CFI, while CFF is positive (Miller & Friesen, 1984). In this phase, fixed costs often burdenimpede a company's turnover. TheA company needs more cash to make an initial investment to develop its market position.

The crucial phase lies inis the decline phase, which is indicated by a decline in sales and negative earnings. This is due to the cessation of innovation. The decrease in liquidity of company assets affects the continuation of

business and expenses <u>like(e.g.</u> paying creditors;): therefore, <u>the</u> CFI will not be zero. Dickinson (2011) found that a falling CFF could occur in CFF> <u>obe either greater than</u> or CFF <u><0.less than zero</u>. At this stage, it becomes a challenge for management to <u>be able to</u>-produce the S-curve; so that the company remains sustainable. Capital expenditure will prop up <u>thea</u> company in this difficult situation in order for the company<u>to help it</u> to get through this <u>conditionsituation</u> and <u>return uprecover</u>.

In this study, the reputation of capital expenditure is indicated by the growth of fixed assets and the addition of the<u>a</u> company's total assets per quarter. Companies that continuously invest in capital expenditure promise a continuous increase in value in the future.

2.3. Hypothesis Development

The growth in capital expenditure over the years shows the reputation of the company's capital expenditure, which in turn is a signal of a company's growth opportunity (Diamond, 1989; Masulis, 1980; McConnell & Muscarella, 1985). Capital expenditure growth is indicated by an increase in fixed or total assets. The increase in fixed assets indicates that the company's future productivity will be better, and the growth in these expenditures means innovation and increases in fixed assets indicates that potential financial performance (ROA) will increase in capital expenditure also provides an expectation that potential financial performance (ROA) will increase (Kerstein & Kim, 1995). Increased capital expenditure, in contrast, has an impact on increased risk; however, the capital expenditure actions will be greeted positively by investors because the-increased capital expenditure provides hope for of a good future for the company. If thea company is in a position of has declining or stagnant capital expenditure, then for investors, this is a worry for investors because it signals a less promising future.

Investment decisions made by companies are considered to be value-enhancing actions by the market. In their research, Moser, Isaksson, Okwir, & Seifert, (2021) used annual fixed asset <u>expendituresexpenditure</u> and found that capital expenditure responded negatively in the short term but positively in the long term. A number of other studies document investors' appreciation of investment decisions made by companies (Akbar, Ali Shah, & Saadi, 2008; Chan et al., 1990; Jones, Danbolt, & Hirst, 2004; Jung, Kim, & Stulz, 1996; McConnell & Muscarella, 1985). Chan et al. (1990) found that announcements related to the<u>a</u> company's decision to relocate its head office, subsidiary, factory, or business unit were seen as decisions that had implications for the company's prospects. The market does not necessarily assess the<u>a</u> company's performance as <u>being</u> poor when the<u>its</u> investment still takes a long time to realize—the results (Jones et al., 2004). Research findings by Akbar et al. (2008) show a significant relationship between capital expenditure announcements and stock market prices. McConnell & Muscarella (1985) found that, in general, an increase or decrease in capital expenditure is followed by <u>ama</u> <u>corresponding</u> increase or decrease in stock prices.

Investor responses in this study were measured using two proxies: <u>Tobin's Q (TQ)</u> and cumulative abnormal return (CAR). These two proxies are often used interchangeably in previous studies to represent market responses (Akbar et al., 2008; Brailsford & Yeoh, 2004; Woolridge & Snow, 1990). TQ is the total value of a company's assets from an investor's point of view, where TQ is a combination of the market value of equity and the book value of debt (Chung, Wright, & Charoenwong, 1998). Investors' responses to a company's capital expenditure will be comprehensively reflected in the company's value. At the same time, investors' appreciation of a company's capital expenditure decisions can also be indicated directly fromby changes in share prices (Brailsford & Yeoh, 2004). To prove the consistency of the effect of corporate capital spending, capital expenditure growth, and capital expenditure growth trends, this study uses both proxies.

Based on the description above, the following hypothesis is was developed:

Hypothesis 1: Fixed asset growth affects firm value.

The capital expenditure growth trend is a signal to investors about theregarding a company's future; companies that have a growth trend indicate that they have promising business prospects. Meanwhile, companies

whose capital expenditure growth trend is negative indicates that they are heading for a decline, which eertainly threatens the future of investors; therefore, the market will respond negatively. Hence, the next set of hypotheses are as follows:

was developed. When the trend of capital expenditure increases, it is hypothesized as follows:

Hypothesis 2A: Total assets have a positive effect on firm value.

Hypothesis 2B: Total fixed assets have a positive effect on firm value.

When the trend of capital expenditure falls, it is hypothesized as follows:

Hypothesis 3A: Total assets have a negative effect on firm value.

Hypothesis 3B: Total Fixed Assets fixed assets have a negative effect on firm value.

3. RESEARCH METHOD

3.1. Sample

The research sample comprised publicly traded companies listed on the Indonesia Stock Exchange. Companies were selected based on the following criteria:

1. Issuers listed on the IDX during the 2017Q1Q1 2017 to 2019Q2Q2 2019 period.

- 2. Research objects are were excluded for the financial and the service sectors.
- Issuers with incomplete data <u>arewere</u> ignored, because this is related to information disclosure; the more incomplete the information disclosed by the company, the more difficult it is for investors to assess the company's future.
- 4. Firms undertook capital <u>expenditures</u><u>expenditure</u> during the study period.
- 5. Ten companies with the highest increase in shares in each sector during the study period were selected as samples. The selection of the <u>companycompanies</u> with the highest <u>increaseincreases</u> was due to the fact that we found a significant difference in the characteristics of financial performance between companies that experienced the highest increase in stock prices and those that experienced the lowest increase in stock prices. Some companies that were at the lower limit did not have significant capital expenditure activities. To avoid bias, we <u>only</u> included-<u>only</u> companies with the highest share increments.

3.2. Analysis Model

Hypothesis testing was carried out in stages. First, we tested hypothesis 1 to prove that the reputation of capital expenditures, asexpenditure, measured by the growth in total fixed assets, affects firm value (see Equation 1). After that, the sample was divided into two sample groups based on the trend of capital expenditure growth over the last five years. Companies experiencing a positive growth trend were separated from the samplethose that had a negative growth trend. Then, each sample group was tested separately to prove hypotheses 2A and 2B (see Equation 2), and and 3A and 3B (see Equation 3). The analysis model for each hypothesis is as follows: Hypothesis 1

Hypotheses 2A, and 2B

 $MR growth_{i,t} = \gamma_0 + \gamma_1 LOGTA_{i,t-1} + \gamma_2 FATA_{i,t-1} + \gamma_3 ROA_{i,t-1} + \gamma_4 DER_{i,t-1} + \varepsilon_t$ (2)

HypothesisHypotheses 3A, and 3B

(1)

 $MR not - growth_{i,t} = \emptyset_0 + \emptyset_1 LOGTA_{i,t-1} + \emptyset_2 FATA_{i,t-1} + \emptyset_3 ROA_{i,t-1} + \emptyset_4 DER_{i,t-1} + \varepsilon_t (3)$

Where:

 $MR \ all_{\downarrow}$ <u>is the</u> market response of firm i for period $t_{\overline{2}}$ for all samples

MR growth is the market response of firm i for period $t_{\overline{\tau}}$ for the growth sample

 $\mathit{MR}\ \mathit{not-growth}_{c\bar{c}}\ \underline{is\ the}\ market\ response\ of\ firm\ i\ for\ period\ t_{\bar{v}}\ for\ the\ non-growth\ sample$

 $LOGTA_{u-r} \xrightarrow{:} is the log of total assets for firm i for the t-1 period$

 $FATA_{i,i-1} \longrightarrow \underline{is}$ the proportion of fixed assets to total assets of firm i in period t-1

 $ROA_{i,t-1}$ is the return on assets for firm i for the t-1 period

 $DER_{it-1} \longrightarrow \underline{is the}$ debt to equity ratio for firm i for the t-1 period

3.3. Operationalization of Variables

The operationalization of the variables used in this study is described below.

- Capital spending is proxied by the expenditure of total assets quarterly and total fixed assets quarterly. Total
 assets are measured by the logarithm of total assets (LOGTA), while total fixed assets are measured by total
 fixed assets scaled by total assets (FATA).
- 2. Capital spending growth (GFA) is measured by calculating the current total fixed assets divided by the previous period's total fixed assets.
- 3. ROA is a measure of financial performance, which in this case is calculated by dividing net income by total assets.
- 4. DER is a measure of a company's risk, obtained from total liabilities divided by total assets.
- 5. Market response (MR) in this study is proxied by TQ and CAR. TQ combines the total value of the company's assets from an investor's perspective, where TQ is calculated from the market value of equity shares plus the book value of total liabilities.
- 6. CAR is calculated using a market model with an estimated period of 60 days before the date of publication of the quarterly report, and the event period for calculating CAR is $\pm 0 \underline{ten}$ days before the day of publication, the day of publication, and $\pm 0 \underline{ten}$ days after the publication day of the quarterly financial statements. After calculating stock returns and market returns during the estimation period, the next step is to estimate β by regressing stock returns and market returns, by using Equation $4 \pm 0 \underline{ten}$, as follows:

$$R_{it} = \alpha + \beta_i R_{mt} + \varepsilon_{it} \qquad (4)$$

The next step was to calculate the expected return (Equation 5) and abnormal return (Equation 6) as follows:

$$E(R_{it}) = \alpha + \beta_i R_{mt}$$
(5)
$$AR_{it} = R_{it} - E(R_{it})$$
(6)

Next, the CAR during the event window period for -10, 0, +10 was calculated using the Equation 7, as follows:

$$CAR_i = \sum_{t=10}^{t+10} AR_{it}$$
⁽⁷⁾

 $\overline{7}$

4. RESULTS

4.1. Sample Profile

The number of companies registered on <u>the IDX</u> during the <u>2017Q1Q1 2017</u> to <u>2019Q2Q2 2019</u> research period was 644 companies, 324 of which did not have complete financial data and came from the financial sector, leaving 320 companies. Based on the criteria of <u>40ten</u> companies per sector with the highest increase in shares, 35 companies were selected out of 320-<u>companies</u>, <u>or</u>, <u>with</u> a total of 280 firm years during the study period. Of these, 71 did not have stock price data for the past 60 days, so they were excluded from the sample, <u>and thewhich</u> <u>gave us a</u> final total sample <u>wasof</u> 209 firm years.

The sample profiles of the research variables are presented in Table 1. Panel A is the sample group that has positive capital expenditure growth throughout the study period, Panel B shows the sample profile with negative growth, and Panel C shows the profile of all samples.

Table -1. I	Descriptive	statistic
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Panel A					Panel B			
Positive Growth (155)					Negative Growth (54)			
	Min.	Max.	Mean	SdtStd.	Min <u>.</u>	Max .	Mean	SdtStd.
				Dev.				Dev.
FATA	,18	, 96	, 63	<u>,</u> 18	<u>,</u> .30	, 6 5	<u>5.</u> 50	<u>, 10</u>
LOGTA	$7_{\bar{3}}83$	13 <u>5</u> 4 6	105.77	13281	8 ₅₋ 1 2	12 ₅ 5 4	105.82	1,.78
ROA	 .09	<u>, 15</u>	<u>;</u> 02	<u>;.</u> 031	.02	<u>;.</u> 08	<u>5.</u> 025	<u>5.</u> 022
DER	, .33	4 <u>,</u> 03	1,.49	, 78	<u>5.</u> 07	1,84	<u>,</u> 69	, 60
тQ	<u>,.</u> 01	4 , .32	, 75	1 <u>,</u> 03	<u>.</u> 30	<u>,</u> 82	<u>5</u> 51	, 16

Commented [SP1]: Periods/full stops should be used for decimals rather than commas.

Table -1. Continue.									
Panel C									
All samples (All samples (209)								
	Min.	Max.	Mean	SdtStd.					
				Dev.					
FATA	<u>5</u> 18	<u>,</u> 96	<u>,.</u> 59	<u>,</u> 17					
LOGTA	7 <u>;</u> 83	13;46	10 <u>5.</u> 82	1 <u>7.</u> 78					
ROA	 09	<u>,</u> 15	<u>, 02</u>	<u>5.</u> 03					
DER	<u>,</u> 07	4 <u>5.</u> 03	1 <u>;.</u> 25	<u>.</u> 82					
TQ	<u>;</u> .00	4 <u>5.</u> 32	<u>, 69</u>	<u>,</u> 88					

Companies that were growing had a higher average TQ $(0_{72}75)$ than companies that had negative growth, which only had <u>man average</u> TQ of 0.5. This shows that investors appreciated companies that were growing compared to companies that were not growing or had negative growth. The average capital expenditure of growing companies (FATA) was 0.80, <u>which is higher than that of companies in the negative growth group</u>, whose FATA value was only 0.50. Interestingly, the ROA of companies with positive growth was not better than that of companies with negative growth. This shows that growth in capital expenditure is not directly related to short-term financial performance. Judging from the capital structure, <u>growthgrowing</u> companies have a capital posture that is mostly funded by debt, as can be seen from the average DER value of 1.49; thus, from the risk side, companies that are growing have a higher risk than companies that are not growing.

4.2. Hypothesis Testing

The first hypothesis aims to prove that a company's <u>actions to investiment</u> in capital <u>expenditures</u> provide a signal forexpenditure signals growth, and that this will be responded positively by investors. The <u>test</u> results of <u>testingfor</u> Hypothesis 1 are presented in Table 2. The GFA had a positive and significant coefficient at

the 0.01 level. <u>Investors, and investors</u> responded positively to growth signals, proxied by growth in capital expenditure. In addition, capital expenditure, proxied by LOGTA and FATA, both had a positive and significant coefficient at the 0.01 level. Investors appreciated the capital expenditures made by companies because they indicated <u>future_expectations-for the company's future.</u> These results were fairly consistent across both proxies of market response, with both-(TQ and CAR-). The test results supported Hypothesis 1—that the market responds positively to companies that show signals of capital expenditure growth.

Financial performance in the form of ROA had a significant negative effect, which means that the investor responds investors responded otherwise. Growth signals dominate, so periodic performance, such as ROA, is less of a concern for investors. <u>Investors, who</u> respond negatively to corporate risk (DER) because the debt-dominated capital structure will increase the company's risk in the future.

	Tobin's Q			CAR		
Variable		<u>ŧT</u> -	Sig.		€ <u>T</u> -	Sig.
	β	value	-	β	value	-
GFA	<u>,</u> 701	2 <u>5.</u> 026	**	, 364	5 <u>,</u> 995	***
FATA	2 <u>,</u> 392	7 <u>,.</u> 083	***	-25 <u>,.</u> 534	-6 <u>,</u> 118	***
LOGTA	25 <u>,</u> 139	6 <u>;.</u> 013	***	1,992	5 <u>,</u> 793	***
ROA		-2 <u>,</u> 644	***	-, 010	-1 <u>,</u> 78	
DER	- <u>,-</u> 157	-2.116	***	- <u>,</u> 219	-3 <u>,.</u> 657	***
Constant	-9 <u>5</u> 514	-5 <u>,</u> 723	***	-7 <u>,</u> 148	-4,.921	***
R²∕Adj R²	<u>,</u> 371			0,.436		
F	18,582		***	25 <u>,</u> 610		***

Table -2. Hypothesis 1.

The trend of capital expenditure growth over time indicates <u>thea</u> company's commitment to continue to strive to maintain and increase value to shareholders. Hypothesis 2 (see <u>Table 3</u>) examines investors' responses to capital <u>expendituresexpenditure</u> by companies in the sample group, which <u>hashave</u> a positive growth trend. Companies over the past five years that had positive capital expenditure growth trends were tested separately. The results consistently showed that in this sample group, capital expenditure, which is proxied by LOGTA and FATA, had a positive response from investors. In <u>a companyFor companies</u> that <u>hashave</u> positive growth, investors understand that debt increases as a source of capital expenditure, <u>so that and</u> DER does not affect investors' responses.

Companies that have a positive capital expenditure growth <u>trendtrends</u> are able to provide added value and significant competitiveness so that the company will be able to control a larger market share in the future, which in turn will enable investors to enjoy good financial performance. The <u>test</u> results of testingfor Hypothesis 2 prove that the market responds positively to capital <u>expendituresexpenditure</u> made by growing companies, and this result is consistent with both TQ and CAR proxies.

	Tobin's Q			CAR		
Variable		<u>€</u> T-	Sig.		<u>€</u> T-	Sig.
	β	value		β	value	
FATA	2 <u>,</u> 448	5 <u>;.</u> 506	***	1,264	2 <u>7.</u> 109	**
LOGTA	25 <u>,</u> 386	4 <u>;.</u> 644	***	16 <u>;.</u> 043	2 <u>,.</u> 223	**
ROA	 198	-2 <u>5.</u> 755	***		-1,151	
DER	-,_ .106	-1 <u>,</u> 278		 103	-, 952	
Constant	-95.261	-4,.190	***	-2 <u>5.</u> 508	-1,.691	*
R²∕Adj R²	<u>, 405</u>			, 224		
F	17;209		***	10,181		***

Table -3. Hypothesis Hypotheses 2A, and 2B.

The results of Hypothesis 3 (see Table 4) indicate that for the sample group that has a negative growth trend, the results are indeed different, and tend to be inconsistent for each of the proxies for capital expenditure, namely FATA and LOGTA. Capital expenditure, which is proxied by total assets, has a negative response because in companies with a negative growth trend, continuity of capital expenditure cannot be expected. Investors doubt thea company's ability to update its assets. Meanwhile, the market still believes more onin capital expenditure, which is proxied by FATA, even though thea company has a negative growth trend. The addition of fixed assets will support the companythese companies to continue its operationsoperating and will signal the company'stheir ability to survive in the future.

In the <u>condition of cases where</u> companies <u>experiencing experience</u> negative capital expenditure growth, investors refocus their attention on periodic financial performance, and it is evident that ROA responds positively to the market, although this result is inconsistent when market reactions are measured by CAR. In the CAR model, ROA does not affect the market reactions.

	Tobin's Q			CAR		
Variable		€ <u>T</u> -	Sig.		€ <u>T</u> -	Sig <u>.</u>
	β	value		β	value	_
FATA	<u>,</u> 259	15.749	*	<u>,</u> 304	15.814	*
LOGTA	-, 318	-1 <u>,</u> 973	*	, 048	, 262	
ROA	<u>,</u> 497	3 <u>5.</u> 552	***	-,_ 113	-151	
DER	<u>,</u> 019	<u>,</u> 100		<u>3</u> :165	1 <u>5.</u> 080	
Constant	<u>,</u> 481	2 <u>5.</u> 500	**	, 310	1,475	
R₂∕Adj R²				, 036		
F	3 <u>5.</u> 797		***	13.823		*

Table -4. HypothesisHypotheses 3A, and 3B.

4.3. Discussion

Capital expenditure is a signal sent by the<u>a</u> company to the market that the <u>companyit</u> has a high value (Trueman, 1986), and that the company is well prepared to anticipate various changes in the future. The phenomenon of AMFG and AALI stocks discussed in the background section has strong empirical support; investors pay more attention to company prospects rather than periodic performance. Companies that have good performance but are not growing respond negatively to the market.

Our findings prove that capital expenditure is a function of stock price and firm value, where capital expenditure explains more strongly changes in firm value more strongly than periodic financial performance, such as ROA. This is in line with the findings of previous studies (e.g., Trueman, 1986), suggestingwhich suggest that capital expenditure may be able to perfectly reveal management information; with a higher level of signaling with more favorable information. Other studies (Jones et al., 2004; Moser et al., 2021), although in a slightly different setting, found that capital expenditures signalexpenditure signals a better future, and therefore havehas a positive response from the market. In all hypotheses, ROA is used to be a variable of concern for investors. The as the market pays more attention to a company's capital expenditure variables. This proof simultaneously invalidates previous findings regarding the market response to financial performance (Anilowski et al., 2007; Bali et al., 2008; Ball & Brown, 1968; Ball et al., 2009). Market response shifts when it is related to the capital expenditure variable. The role of ROA is less significant when it is added to the capital expenditure aspect.

This study also <u>findsfound</u> that asset growth and the amount of annual or periodic asset expenditure or fixed assets are good proxies for capital expenditure. <u>In previousPrevious</u> studies, <u>generally using used</u> capital expenditure announcements as a proxy for capital spending: <u>however</u>, we must choose another proxy, because not all companies announce their capital expenditure actions, especially if capital expenditure is strategic (Jones

et al., 2004). The findings of this study contribute to existing research related to the proxies for capital expenditure, which can be proxied by the growth of fixed assets, addition of total assets, or fixed assets. These three proxies for capital expenditure consistently influence market responses.

Another important finding is that the market focuses on trends in corporate capital expenditure. The trend of capital expenditure growth shows <u>thea</u> company's commitment to continue to maintain its existence. Companies have their own life cycles; each stage of the cycle requires capital investment so that the company can continue to grow and survive, especially <u>in</u>-companies that are <u>atin</u> a stage of decline. Capital expenditure plays a role in preventing <u>thea</u> company from declining and allows it to grow and reach the next life cycle <u>eurve</u>. This <u>research has</u> not yet <u>on provingbeen conducted to prove</u> whether capital expenditure provides a shield that <u>keepsprevents</u> companies from leaving the market and leads them to enter the next phase of the life cycle. This provides further research opportunities to address this issue.

From a risk perspective, companies that make capital expenditures have the potential to increase their DER. The market responds to this risk realistically, and the big risk responds negatively risks generate negative responses. However, investors still see the positive side of this risk, these risks because companies that have high riskrisks but positive asset growth have received receive a positive response from the market. A high DER also indicates a great deal of confidence in the company to be able to finance capital expenditure needs from debt, and this further increases the company's market confidence.

The results of this study have several implications for their-management. The market response describes the market appreciation of company performance. Companies that get a good assessment from the market will certainly benefit as the company's value increases. Therefore, management needs to manage capital expendituresexpenditure appropriately, and the accuracy of capital expendituresexpenditure will be proven through the achievement of good financial performance in the followingsubsequent periods; according to market expectations. This is what makeswhy investors maintain their investments by appreciating the company's, as they appreciate companies' capital expenditure actions. Capital expendituresexpenditure will also help management to save companies that are in the decline phase, and it is hoped that with the right capital expenditure management ean passthey will survive this phase and stillcontinue to exist in the market.

This study had several limitations. First, given the limited data available, we dodid not differentiate between the types of capital expenditures made by the companycompanies, whether it is internal investment in the form of production machinesmachinery, acquisitions, mergers, or business diversification. Second, there arewere not many companies that cancould be sampled, because some companies that meetmet the criteria dodid not have a significant increase in shares during the study period; so to avoid bias inbiased results, these companies were excluded from the study sample. The results of this study can be refined by expanding the research period, and only specifically forfocus on companies that make capital expenditures and disclose them, their expenditure to the public, and is not only solely based on the addition of total assets or fixed assets.

5. CONCLUSIONS

Companies need new investments to be sustainable. The company, and they periodically needsneed to adjust the assets used for current production so that itthey can continue to be competitive in the future. It is as if the company is companies are being forced to increase investment so that it does they do not lose momentum following the development of existing market trends. The size of the new investment investments determines the future of the company. In the capital market, investors consider the stock priceprices to be directly proportional to the prospects of thea company's future financial performance. From the perspective of investors, the reputation of companies that carry out capital spending is important for further study.

The results support the hypothesis that the reputation of asset <u>expenditures asexpenditure</u>, measured by asset growth and periodic <u>expendituresexpenditure</u> on <u>fixed assets and</u> fixed assets, has a significant influence on

Commented [SP2]: This needed to be reworded, as risks themselves are not responsive.

market response, as proxied by TQ and CAR. Growth trends differentiate the market response to a company's reputation for capital expenditure. Companies that have a positive growth trend receive a positive response to their capital expenditures expenditure, and vice versa. Periodic capital expenditures provide a signal expenditure signals that thea company is committed to maintaining its presence in the market, and such companies promise good returns in the future. Proxies for capital expenditures expenditure, both measured by asset growth and periodic expenditures expenditure on assets and fixed assets, show consistent results in explaining investor responses. This study adds to the evidence that investors respond more to capital expenditure than to periodic financial performance. Investment is a matter of the future; therefore, investors are lookinglook for companies that promise a good future, and capital expenditures are expenditure is one of the indicators of a good future prosperity.

The findings of this study_also provide a number of managerial implications, including that managers need to pay attention to the management of asset <u>expendituresexpenditure</u> for two reasons. First, the market appreciates the capital expenditure, which will increase the value of the<u>a</u> company. Second, capital expendituresexpenditure that <u>areis</u> carried out from time to time will help <u>raise theto bring a</u> company from the<u>out of a</u> decline phase to<u>and into</u> the next life cycle phase, so that the <u>companyit</u> will be able to continue to be sustainable.

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