Comparison of Abnormal Returns Before and After The 18 Asian Games in Indonesia (Event study of companies included in the LQ45 Stock Index)

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Comparison of Abnormal Returns Before and After The 18th Asian Games in Indonesia (Event study of companies included in the LQ-45 Stock Index)

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Abstract. The Asian Games is a few year of specie. This study areas to date the and analyse pictures or determined returns before and all the 18. Asian Games is believe on the analyse pictures or determined returns believe and all the 18. Asian Games is believe on to companies included in the 112-43. Stock believe the population in this study are companies included as the 112-43. Stock believe for the formation of the study are companies included as the 112-43. Stock believe for the formation of the study are companies and proposed companies and the first term of resourch is the event study, in which the great stocking one paired companies and after the Asian Games in Indooreus Hypothesis testing over paired complete and. The people decreated that there were differences in absence to the event of all of the Asian Games in believe the Asian Games in believe in the Asian Games in believe in the Asian Games in believe in the Asian Games in believes, the highest percentage of average absurance returns constrain in the Asian Games in believes and the broad in the Missellateous laderly stock society and the broad in the Missellateous laderly stock society and the broad in the Missellateous laderly stock society and the broad in the Missellateous laderly stock society and the broad in the Missellateous laderly stock society.

Keywords: Event Study, Absormal Return, Avian Games, LQ-45 Stock Indea.

1 Introduction

In the molist of increasingly high competition in the financial markets, the Indomesian capital market contained to grow and develop againstantly over time. This can be seen from the increasing number of securifies registered and builded on the capital market with a fault large market capitalization. Flads (2015) argues that the capital market is a nature or meeting place for sellers and buyers. Sellers and buyers in this case are sellers and buyers of financial asymments for investment. Capital market (capital market) is a market for a surrety of long-term financial instruments that can be traded, both honds (bonds), equifies (stocks) methods that convertes instruments and other instruments (but coin Stock Euchange; 2018).

This research uses event study research to study and analyze the reaction of investors in the capital market term event. Event studies are studies that study market reactions to an event whose information is published as an assumancement and can be used to test the information content of the amounteement (Mukaum, 2019).

In investing in the capital market, investors need information disclosure related to the company's internal

conditions, such as the company's fundamental and or financial as well as other external conditions that can affect the movement of a company's stack prices. These things will encourage investor reaction in the capital market related to investor's decrease to invest.

lementar's reaction or response to the event is measured using abnormal return. Abnormal return or excess return shows the excess of returns that actually occur against normal returns (Purba, 2017). Abnormal return is used as an indicator to see capital market reactions to certain information, which means that every market reaction is indicated in the abnormal return there is information content in it (Danusatrio, 2018). When using abnormal returns, it can be concluded that an event that has information content will provide an abnormal return to the market. Conversely, events that do not contain information do not provide abnormal returns to the market (Hartono, 2015).

One of the factor that motivates investors to irrest and also reward for the courage of investors to bear the risk of their investorate is stock returns (Tundeldin, 2010). A new information that is intered and responded by the market can create a new market equilibrium point. Thus, investors will compete to find information that is

Consequency author groups briefly related to the

relevant to the market. The reposition of an organization's can affect the performance of the stack market through profitability and growth (Runds, 2015). In addition, various economic, socio-cultural, political, defense and security events, the environment and harman nights contain information that can create a change in the capital market.

Abnormal movements in stock prices can occur in the capital market as a whole, but can also occur in the movement of certain stocks that usually occur at certain times (Prainte, 2015). One non-economic event that can crusts charge and be responded by intention in the capital market in the creat of internasional sports competition which is generally a positive sentiment for the economy of a country, especially the host country. The relationship between sports events and stock returns that been a topical time in the finance internities in the pist few decades (Osaula, 2015). One such sporting event is the Asian Games which is an international provide is the Asian Games which is an international moving and the biggest international sporting event in Asia.

In 2018, Indonesia was chosen to replace Vistama to foot the 18th Asian Games. The prestagous and the biggest spectrag distribution Asia was field on 18 Asians i 2 September 2018 in two main places namely Jakasta and Paleubang. The constence of four annual spects creats can be one of the factors that can affect the capital market. Because at the time the Asian Games were held in Indonesia, many parties focused on Indonesia in the mass media (both print and electronic) both describedly and abroad, meloding investors all over the world. Interesting things about Indonesia can encourage investors to invest and can also have an impact on the condition of the applied market in Indonesia.

According to the data sourced from the Minister for National Development Planning (PPN / Bappenni), the direct economic impact of the Asian Games is estimated to reach IDR 486 tellion from 2015-2018. The most impact was for communican involument of Rp29-1 hillion. The oconomic impact identifies from the operations of the Asian Games is estimated to reach Bp7-8 trillion. Meanwhile, the economic impact stemming from tourist speeding, both foreign and local, reached Bp3-7 tellion in detail, the expenditure of foreign tourists (fourists) is estimated to reach Rp3-9 trillion. Meanwhile, donomic tourists (various) speed speeding during the Asian Games reaching Ep1-8 trillion. (Extending co. id., 2018).

Tests will be conducted on companies included in the LQ-45 Stock Indian for the period February 2018 - Juniary 2019. The induction of the LQ-45 Stock Indias as a research object because the Indias is a research object because the Indias is also beautiful to be supported as a pass the selection according to several selection officers (Tandeldin, 2010). Every see months the list of shares in the LQ-45 Stock Index is updated, namely in February and Jungest.

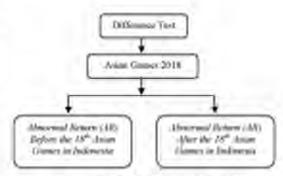


Figure L. Framework of Thinking

This study aims to determine and malyar the presence of absence of deffarences in absorption return of shares in companies included in the LQ-45 Stock lades before and after the 18th Asian Games sporting events in Indonesia. Thus, the hypothesis in this study is that it is suspected that there are differences in absormal returns in companies included in the LQ-45 Stock lades before and after the 18th Asian Games in Indonesia.

2 Research methodology

This type of research is research with a quantitative approach to the form of event study research (event study). In this study, the data source used is secondary data obtained from Yahoo Finance (finance) yahoo com), the Indonesia Stock Exchange which is published on the official subsite of the Indonesia Stock Exchange (www.ide.co.id), and other relevant publications with this research.

The variables used in this study are as follows:

i hbrormil Return (X)

Abnormal Return is the difference between setting attent and expected nature. The order of abnormal sottom calculation is determining the setting return, the market solvers, the abnormal return, then the average beautiful return.

i. Colorlating Actual Return

$$R_{i,t} = \frac{P_{i,t} - P_{i,t-1}}{P_{i,t-1}}$$
 (1)

Information

R₁₁ = issuer's actual return (on day t P₁₀ = isotor's stock price i an day t P₁₀₋₁ = range's stock price i in time h.f.

ii. Cidcoloting Market Return (Rm)

This study uses LQ-45 data, so the market index used in the LQ-45 Stock hales with the following formula:

$$R_{sc} = \frac{LQ45 Index_T - LQ45 Index_{T-1}}{LQ45 Index_{T-1}} \qquad (2)$$

Information

R_m — market jetom when I

LQ45 linlex = LQ45 Index at time i

LQ45 Index = LQ45 index at time t-1

tis. Calculating Abnormal Return (AR)

Absorping return is the difference between all setting and expected return. Calculation of expected return in this study of the market adjusted model method so that the expected return is the same as the market return. The ulmormal return formula is as follows.

$$AR_{i,i} = R_{i,i} - R_{in} \quad (1)$$

Information

AR abnormal stock return i on day t

Rig - actual stock return i on day t

Rm - stock market return i on day t

iv. Calculating Average Abnormal Return (AAR)

$$AAR_{i,t} = \sum_{i=1}^{n} \frac{AR_{i,t}}{n}$$
 (4)

Information

AAR₄₃ - Issuer's Average Absormal Return For period t

AR_{cr} - Issuer's Almontoni Retorn i en

N Number of observation periods

Asian Games 2018 (Y)

The basis Six the selection of the 18th Asian Games sporting events in Indonesia is because the event in an international, presigned and the largest scale sporting event at the Asian level and last become a wide sportinght in the mass media, both print and electronic from domestic and abroad.

The population used in this study are company shares histed on the Indenesia Stock Exchange and included in the LQ-45 Stock Index Sampling of research using nonprobability sampling method with purpositive sampling technique. The following is a table for determining criteria for research sampling.

Table L. Determination of Withdrawl of Research Samples

So	Information	Total Company
,	Companies inclinded in the LQ-PS links; above during the period estimators and window period	45

Corresponding author gargemiliant city oderstal com-

2	Companies that are pulled a manuse armunically enlayed in the LQ-25 Stock hades during the estimated period and window period	(2)
	Total Samples	-0

Source : Data processed, 2019

The observation period used in this study was 1 and large day and 10 days were observed, manuely 5 (fixe) days before the event [15]) and 5 (five) days after the event occurred ([15]). Data collection methods in this study use the method of documentation and interactive collected from various sources and references.

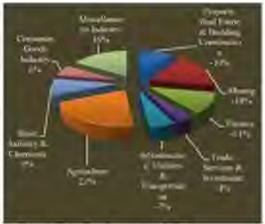
To prove the analysis that states that abnormal returns before and after the 18th Asian Genes in Indonesia have differences, a different paired sample t-test was used. Data collected from the results of the study were processed and analyzed using the 8PSS (Statistical Package for the Social Sciences) program with the Statistical Parced Sample T-Test.

3 Result and discussion

The object of research used was companies included in the LQ-45 Stock Index for the February 2018 - Jamai 2019 period, which companies consistently entered in the LQ-45 Stock Index during the observation period. 45 companies are included in the LQ-45 Stock Index. However, more were 40 companies that were consistently included in the LQ-45 Stock Index during the observation period as a research sample.

The Percentage of Average Abnormal Return obtained by the company before and after the 18th Asian Games in Indonesia which are grouped into several sectors included in the LQ-15 links can be seen in the diagram as follows.

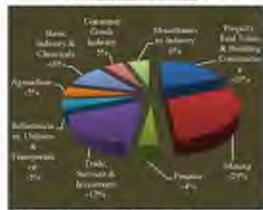
Diagram 1. Percentage of Average Absormal Percentages the 18th Asian Games in Indonesia



Source: Secundary data processed, 2019

Bissed on diagram I above regarding the percentage of Average Abnormal Return obtained by each sector of shares included in the LQ-45 Stock Index in the percentage of average althornal return occurred in the Agriculture and the sector by 21% and the lowest percentage of average althornal return occurred in the Agriculture and the sector by 21% and the lowest percentage value of average abnormal return in the Mining stock sector that is equal to 18%.

Diagram 2. Percentage of Average Abnormal Kenum After the 38th Asian Games in Indonesia



Source: Secondary data processed, 2019

In linguam 2 above, it can be seen that the percentage value of average abnormal returns at the period after the 18th Asian Games in Indonesia lends to decrease, except for the Fanance stock sector which has increased by a secontage value of 4th While the lowest percentage value of average abnormal return occurred in the Mannag, stock sector that is equal to -20% and the highest percentage value of average abnormal return is 6% originating from Miscellaneous Industry slock sectors.

1.1 Research results

In this section, the results and discussion of the capital market reaction to the 18th Asian Games in Indonesia will be measured using abnormal returns. The results of testing the hypothesis in this study are as follows:

Falle 2, Paintl Sample P. Fort Almorted School Tell

Paired Samples Test

	П	Parent Differences			1.	qt,	Sign	
	S.L.	Sul Dens Son	Sal Dua Mean	Confidence Interval Dalles Lower	to the unique Upper			book
AR Pro- Pair Event- 1 AR Post Event	(0097 (000	8802 394	6003 4411	00645 6‡	0079 881	(256)	199	,04s

Source: Data processed using SPSS, 2019

The results of paired sample t-test testing on abnormal returns redicate that the value of sig. (2-tailed) of 0.080 (0.080 - 0.05), meaning that there is a difference, but the effect is not significant of the abnormal return in the period before and after the 18th Assan Games sports competition in Indonesia. Thus, the results of the study safed that H, was rejected and H, was occupied.

3.2 Research discussion

Excel on data analysis using paired sample t-test shows there is a difference between abnormal return before the 18th Asian copies event in Indonesia and abnormal return after the 18th Asian Games event in Indonesia, but the effect is not significant. This is becomes the capital market reacts to the 18th Asian Games in Indonesia, but inventor's expectations of stock prices at the time of the Asian Games have no significant effect, because it is a positive sentiment for the capital market and not a negative sentiment to worry about.

The difference in value on the 5 (five) days before the 18th Asian Games in Indonesia and after the 18th Asian Games to Indonesia does not have a significant effect indicating that changes in stock returns owned by companies around the event are normal price changes.

4 Conclusions and suggestions

4.1 Conclusions

- L. There are differences in Abuormal Beturns before and after the 18th Asian Games in Indonesia, but the effect is not agnificant. This is because the expectations of stock prices at the time of fire Asian Games have no significant effect, because it in a positive sentiment for the capital market. This event shows that the holding of the Asian Games is not one of the valuable information for investors in making investment decisions.
- 2 The highest percentage value of Average Abnormal Return in the period before the 18°

Assur Games in Indonesia occurred in the Agriculture stock sector by 21% and the lowest is -15% occurred in the Mining stock sector. While the lowest percentage of the average abnormal return period after the 18% Asian Games in Indonesia occurred in the Mining stock sector that is -29% and the highest average abnormal return rate of 6% originating from the Miscellaneous Industry stock sector.

4.2 Suggestions

- Future researchers who will conduct research with the same theme should take more variables with a longer observation period. That way, there will be an increase in the quality and occurracy of research results.
- 2. The Asian Games sport event is one of the moments for investors to invest, one of them is in the form of shares, because it is a positive sentiment for the capital market However, investors should not make this phenomenon the only consideration or main guideline for investors can make more informed decisions regarding their investments.

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