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Telah dipertahankan didepan Dewan Penguji pada tanggal 6 Mei 2021 dan dinyatakan memenuhi syarat untuk diterima sebagai skripsi. iversitas Prawijaya

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"The Effect of Surplus Free Cash Flow Agency Problem on Earnings Management Moderated by Independent Commissioners and Audit Committees"

And this minor thesis has not previously been submitted for a degree in any other university or institution.

I certify that, to the best of my knowledge, my thesis does not infringe upon anyone's copyright nor violate any proprietary rights and that any ideas, techniques, quotations, or any other materials from the work of other people included in my thesis, published or otherwise, are fully acknowledged in accordance with the standard referencing practices.

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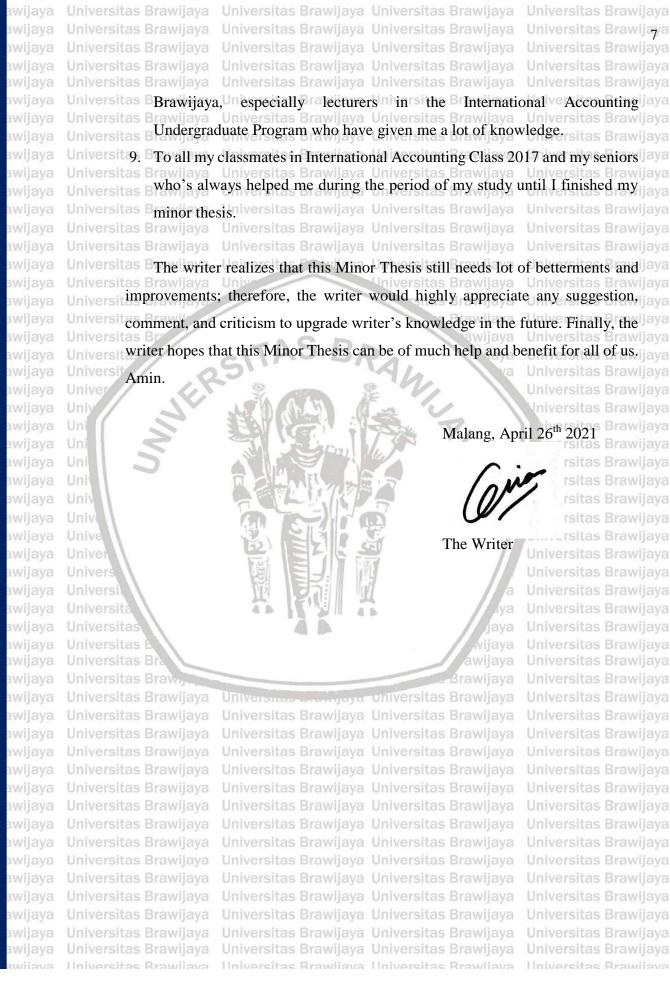
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Thus, the writer would like to express the deepest appreciation to all those who have given the support, help, prayers and enthusiasm to writer to complete this minor thesis. The writer feel that it is an honor to say thank you to: ersitas Brawijaya

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- University 8. To all lecturers of the Faculty of Economics and Business Universities





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ABSTRAK

Penelitian ini dilakukan dengan tujuan untuk mengetahui pengaruh yang ditimbulkan dari adanya masalah keagenan arus kas bebas terhadap manajemen laba di perusahaan industry manufaktur yang terdaftar di bursa efek Indonesia, baik sebelum dimoderasi ataupun sesudah dimoderasi. Variabel dalam penelitian ini adalah Surplus Free Cash Flow Agency Problem (X1), sebagai variable independentya; lalu Independent Commissioners (X2), Audit Committee Meeting Frequencies (X3), sebagai variable moderasinya; dan Earnings Management (Y) sebagai variable dependennya. Penelitian ini menggunakan pendekatan kuantitatif, yang memungkinkan peneliti untuk mengukur, menilai dan mengetahui hubungan antar variable dalam bentuk numerik dan dengan prosedur statistik. Untuk metode pengumpulan data, menggunakan metode dokumentasi dan literasi. Penelitian ini menggunakan data sekunder yaitu laporan keuangan dan laporan tahunan sebagai sumber data utama. Data sekunder tersebut didapatkan dari website resmi bursa efek Indonesia dan website resmi masing masing perusahaan. Dalam memilih sampel dari populasi, peneliti menggunakan metode pengambilan purposive sampling. Oleh karena itu, terdapat beberapa kriteria yang digunakan, seperti; perusahaan manufaktur yang diikutkan dalam sampel harus menerbitkan laporan keuangan dan laporan tahunan selama 5 tahun berturut turut dari 2015-2019 di website resmi BEI, mata uang yang disajikan di laporan keuangan dalam Rupiah, dan perusahaan harus memiliki semua data yang dibutuhkan dalam penelitian ini. Maka, sampel yang digunakan dalam penelitian ini sebanyak 79 sampel. Analisis data yang digunakan dalam penelitian ini terdiri dari; analisis deskriptif, uji asumsi klasik, analisis regresi linear dan analisis regresi dimoderasi yang diolah menggunakan aplikasi SPSS. Hasil dari penelitian ini menunjukkan adanya pengaruh positif signifikan antara hubungan masalah keagenan arus kas bebas dengan manajemen laba, adanya pengaruh negatif signifikan dari variable komisaris independen sebagai variable moderasi, dan adanya pengaruh negatif signifikan dari variable frekuensi rapat komite audit sebagai variable moderasi.

Unive Kata Kunci: Masalah Keagenan Arus Kas Bebas, Komisaris Independen, Frekuensi, Universitas Komite Audit, Manajemen Laba. Universitas Brawijaya Universitas Brawijaya

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THE EFFECT OF SURPLUS FREE CASH FLOW AGENCY PROBLEM ON Universitas EARNINGS MANAGEMENT MODERATED BY INDEPENDENT awijaya COMMISSIONERS AND AUDIT COMMITTEE MEETING FREQUENCIES

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ABSTRACT

This research was conducted with the aim of knowing the effect of free cash flow agency problems on earnings management in manufacturing industrial companies listed on the Indonesian stock exchange, both before moderation and after moderation. and Audit Committee Meeting Frequencies. The variables in this study are Surplus Free Cash Flow Agency Problem (X1), as the independent variable; then the Independent Commissioners (X2), Audit Committee Meeting Frequencies (X3), as the moderating variable; and Earnings Management (Y) as the dependent variable. This study uses a quantitative approach, which allows researchers to measure, assess and determine the relationship between variables in numerical form and with statistical procedures. For data collection methods, this study uses documentation and literacy methods. This study uses secondary data, namely financial reports and annual reports as the main data source. Secondary data is obtained from the official website of the Indonesian stock exchange and the official website of each company. In selecting samples from the population, researchers used a purposive sampling method. Therefore, there are several criteria used by researchers, such as; Manufacturing companies included in the sample must publish financial reports and annual reports for 5 consecutive years from 2015-2019 on the official IDX website, the currency presented in the financial statements is in Rupiah, and the company must have all the data needed in this study. So, the sample used in this study was 79 samples. The data analysis used in this study consisted of; descriptive analysis, classical assumption test, linear regression analysis and moderated regression analysis were processed using the SPSS application. The results of this study indicate that there's a positive significant effect on the relationship between surplus free cash flow agency problem on earnings management, there's a negative significant effect of independent commissioners as moderating variable, and there's a negative significant effect of audit committee meeting frequencies as moderating variable. Versitas Brawijava Universitas Brawijava

Keywords: Surplus Free Cash Flow Agency Problem, Independent Commissioners, Audit Committee Meeting Frequencies, Earnings Management.



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Universitas Brawijaya Universitas Brawijaya Universitas Brawijay	10
Universitas Brawijaya Universitas Brawijaya Universitas Brawijay	
Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya	
Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya	
Universitas Brawijaya Universitas TABLE OF CONTENTS wijay Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya	
Universitas Brawijaya	
LIST OF TABLE	12
CHAPTER I: INTRODUCTION	a Universitas Brawijaya
Universitas Background of the Study	a Universitas Brawijaya
Univers 1.2 Research Questions	aUniversitas Brawi 19/a
Universitas Brawijaya	a Universitas Brawi
Universitas Brawijaya Universitas Brawijay Universitas Brawijaya Universitas Brawijaya	a Universitas Brawijaya
University Branciava 4 of 1	a Universitas Brawijaya a Universitas Brawijaya
University Brawley University Brawley CHAPTER II: LITERATURE REVIEW	a Universitas Brawijaya
Unive CHAPTER II: LITERATURE REVIEW	22 ya
Universi 2.1 Agency Theoryiia	a Universitas Brawi22/a
Univer 2.2 Surplus Free Cash Flow Agency Problem	
2.3 Earnings Management	
2.4 Cood Comparets Consumers	niversitas Brawijaya
2.4 Good Corporate Governance	niversitas Brawijaya
linit linit	I iniversitas Brawijava
2.6 Audit Committee Meeting Frequencies	miversitas Brawijaya
2.7 Manufacturing Companies Listed in Indonesia Stock Ex	/
University 2.8 Research Framework	Universitas Brawi 42 Universitas Brawijaya
	Universitas Rraw 44/a
CHAPTER III: RESEARCH METHOD	a Universitas Brawijaya
Universitä	a Universitas Brawijaya aUniversitas Braw 49/a
Universi 3.1 Research Design	a Universitas Brawijaya
Universitäs Brand Salipiesawijay Universitäs Brand Source of Dataawijay	a Universitas Brawijáya
Universitas Brawijaya Universitas Brawijay Universitas Brawijaya Universitas Brawijaya Universitas Brawijay	a Universitas Brawijaya
Universi 3.5 Data Analysis Method	aUniversitas Brawi57ya
Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya	a Universitas Brawijaya
University 4.1 Descriptive Statistics	a
Universit 4.2 Linear Regression Analysis Waya Universitas Brawijay	a Universitas Brawi63va
Universitas Brawijava Universitas Brawijava Universitas Brawijav	a Universitas Brawijava
4.3 Moderated Regression Analysis	a Universitas Brawijāya
4.4 Classical Assumptions of Regression	a Universitas Brawijava
Universitas Brawijaya	a Universitas Brawijava
Universitas Brawijaya Universitas Brawijaya Universitas Brawijay	
Universitas Brawijaya Universitas Brawijaya Universitas Brawijay	
Universitas Brawijava Universitas Brawijava Universitas Brawijava	a Universitas Brawijava

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awijaya	Universitas Brawijaya		Universitas Brawijaya	Universitas Brawijaya
awijaya			Universitas Brawijaya	
awijaya	Universitas Brawijaya	Universitas Brawijaya	Universitas Brawijaya	Universitas Brawijaya
awijaya	Universitas 4.4.3 He	teroscedasticity Test	Universitas Brawijaya Universitas Brawijaya	
awijaya			Universitas Brawijaya	
awijaya	Universitas Brawijaya	Universitas Brawijaya	Universitas Brawijaya Universitas Brawijaya	Universitas Brawijaya
awijaya	Universitas Brawijaya	Universitas Brawijaya	Universitas Brawijaya	Universitas Brawijaya
awijaya			cy Problem Significantly	
awijaya	0		Universitas Brawijaya	
awijaya	4.6.2 Indepe	endent Commissioners S	ignificantly Moderates S	Surplus Free Cash
awijaya	Flow Agenc	v Problem with Earning	s Management	Universitas Brawijaya
awijaya				
awijaya			quencies Significantly N	
awijaya	Free Cash F	low Agency Problem wi	ith Earnings Managemen	ıt75
awijaya awijaya	CHAPTER V:	CONCLUSIONS AND	SUGGESTIONS	78
awijaya	Hairovoite / 6			Universites Drewitters
awijaya	Univer Univer			Universitas Brawijava
awijaya	Univ 5.2 Limitation	S		
awijaya	5.3 Suggestion	ıs		iversitas Braw 79/a
awijaya	Uni DIDI IOCDADI	TY JUNE 1	130	niversitas Brawijaya
awijaya	Uni BIBLIOGRAPI	11		niversitas Brawijaya
awijaya	APPENDIX			hiversitas Rraw 88/a
awijaya	Univ APPENDIX 1		7 	niversitas Brawijaya
awijaya	Univ		<u>, 2</u>	Universitas Brawijaya
awijaya	Unive APPENDIX 2			Inhversitas.Braui93 _{/8}
awijaya	APPENDIX 3			Universitas Brav 103/a
awijaya	Univers APPENDIX 4			Universitas Brawijaya
awijaya awijaya	University present	111	i //a /ya	Universitas Brawinaya
awijaya	APPENDIX 5		, aya	Universitas Brawijaya
awijaya	APPENDIX 6		jaya Wijaya	125
awijaya	University poempty 7		awijaya	Universitas Brawija/a
awijaya	Universitas Brawn	•••••	Brawijaya	Universitas Brawijaya
awijaya	Universi APPENDIX 8	··biliversitus enumijarju	awijaya awijaya Brawijaya Universitas Brawijaya	Universitas Brav127 _{ya}
awijaya	UniversitAPPENDIX 9	Universitas Brawijaya	Universitas Brawijaya	128
awijaya	Universitas Brawijaya		Universitas Brawijaya	Universitas Brawijaya
awijaya	Universitas Brawijaya		Universitas Brawijaya	Universitas Brawijaya
awijaya	Universitas Brawijaya	5.5	Universitas Brawijaya	Universitas Brawijaya
awijaya	Universitas Brawijaya		Universitas Brawijaya	Universitas Brawijaya
awijaya	Universitas Brawijaya		Universitas Brawijaya	Universitas Brawijaya
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awijaya	Universitas Brawijaya		Universitas Brawijaya	Universitas Brawijaya
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Principles of a company that available for external parties, which can be used to universitas Brawijaya Univer

Good or bad company performance can also be seen through the availability of company surplus free cash flow. A high surplus free cash flow indicates a company is able to pay debts to creditors, pay dividends to investors, and grow its business. In more detail, the concept of free cash flow, introduced by Jensen (1986), refers to the sum of the surplus funds available after funding profitable projects. In fields, firm managers tend to use free cash flow as investment rather than give it for dividends (Bukit & Nasution, 2015). Investments that have good prospects will benefit shareholders and vice versa. However, companies with surplus free cash flow usually end up wasting them on unprofitable projects (Jensen, 1986). While, the shareholders prefer the surplus

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awijaya awijaya Therefore, the difference between the goals and interests of the company (owner or investor) and the manager will lead to a problem known as the agency Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya problem. Agency problem occurs because the agent does not act in line with the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya interests of the principal. The actions of owners and managers prioritize their personal Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya goals, which in turn encourage managers to take opportunistic actions to achieve their own goals at the expense of the goals of owners or investors. To conceal the Universitas Brawija unprofitable project performance, managers may engage in aggressive earnings management practices, which earnings management is an act of opportunistic actions the manager takes. Therefore, the emergence of earnings management practices is triggered by various factors, one of them being the surplus free cash flow agency problem.

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Earnings management has been a negative trending topic in accounting literature, which is regarded as a tool for managers to fulfill their interests. There are two situations described by Chung et al. (2005) that are possible to be the reasons. The first one occurs when managers manipulate their earnings upwardly to conceal their unprofitable project performance. The second situation arises when managers opt for downward earnings management to smooth earnings in the following years when the negative impact of sub-optimal investment begins to appear.

There are several earnings management incidents that shocked the business world, such as Enron and Worldcom cases, which caused huge losses for businesses and the accounting profession. The public accounting profession has also received public attention. It provokes public confidence for the failure of Arthur Andersen Unive accounting firm in carrying out the functions of independent attestation. Not only from

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abroad, earnings management cases also occurred in Indonesia, such as the case of PT

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Kimia Farma Tbk. It was proven in 2002 that the suspected net profit inflating case Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya committed by PT Kimia Farma Tbk was revealed in the 2001 financial statements.

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya In fact, earnings information is still a major concern in measuring the success Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya or failure of a business in achieving predetermined operating goals (Luthan et al., ijaya Universitas Brawijaya Universitas Brawijaya 2016). The behavior of managing profits or earnings certainly has a negative impact on as Brawijaya Universitas Brawijaya owners and other interested parties. Opportunistic actions taken by management in financial reporting will later reduce the credibility of financial reports and increase the bias of information presented in financial reports, which can mislead users of financial reports so that it will result in losses for its users. Thus, earnings management practice often creates information asymmetry, losses, and the crisis of investor confidence (Kapoor, 2016). Given the impact of losses incurred in an accounting manipulation case, an effective monitoring system is fundamental. The effective monitoring system

will be able to prevent or reduce earnings management.

Good corporate governance emerges as an effort to control or overcome opportunistic management behavior. Good corporate governance creates mechanisms and means of control to create efficiency for the company and provide benefits for all parties (stakeholders). Implementing corporate governance is also one of the steps given to realize an increase in company performance through monitoring management performance and ensuring management accountability to shareholders. Currently, many companies understand the importance of implementing corporate governance. Many regulations have regulated companies to implement corporate governance to Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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awijaya awijaya Governance, the audit committee helps independent commissioners assuring several Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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jobs such as financial reports are presented fairly, the company's internal control Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

structure is well implemented, and others (Klein, 2002). Besides, they also offer a Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

monitoring mechanism to reduce earnings management practices and ability to control

the management from opportunistic behavior effectively. Although characteristics of tas Brawijaya Universitas Brawijaya

audit committee of listed companies are clearly specified in the listing requirement,

whether companies comply with the Code effectively in controlling earnings

management remains an issue. Therefore, an audit committee activities related to the

frequencies of meetings is expected to be able to weaken the positive association

between surplus free cash flow agency problem and earnings management, considering

in the meeting the audit committee will review the accuracy of the financial reporting

or discuss any significant issues that have been communicated with management.

In addition, to carry out good corporate governance, companies listed on the stock exchange are also required to have commissioners. Independent commissioner is part of commissioners in the company, which has to supervise managers in carrying out their duties in reporting financial statements and carrying out and implementing the good corporate governance system standards in the company properly and correctly, and independent commissioners must be able to act independently (Prabowo, 2014). In general, the board of commissioners is assigned and given responsibility for monitoring the quality of information contained in financial statements. This is important

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya will reduce investor confidence. To overcome this, the board of commissioners is

considering that management is interested in carrying out earnings management which



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Universities Brawijaya allowed to have access to company information (Agustia, 2013). Universities Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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There are differences in previous research results regarding the effect of surplus Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya free cash flow on earnings management. Based on that, researcher's need to do more Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya identification regarding the topic. Thus, one of the reason why researcher need to use Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya moderating variable is to find out the cause of the inconsistencies with previous Universitas Brawijaya Universitas wijaya Universitas Brawijaya Universitas Brawijaya research results. The previous research results may be influenced by other factors, such factors that may strengthen or weaken the relationship between surplus free cash flow on earnings management. One of the factors that may influence those relationship is the Good Corporate Governance factors such as independent commissioners and audit committee meeting frequencies.

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More general, differences in previous research results about the effect of free cash flow on earnings management is become one of the reason why is this research is important in accounting field. As was done by Kono (2013), which states that free cash flow affects earnings management because the existence of free cash flow causes agency problems in the company and can be used to perform earnings management.

Meanwhile, Ghazalie et al. (2015) show that free cash flow has no significant effect on earnings management, especially in public companies in Malaysia.

This research also becomes important because the opportunity for earnings management is higher among companies with high surplus free cash flow. Past studies indicate that companies with high surplus free cash flow face major agency problems (Chung et al., 2005) particularly when the free cash flow is high, but investment opportunities are low. Managers of these companies act opportunistically for personal Unive gain and tend to get involved in unprofitable projects, over investments, and misuse the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya



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funds (Jensen, 1986). Their activities may bring benefits or rewards for themselves and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya may decrease shareholders' wealth. Managers may employ accounting procedures that Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya increase reported earnings to hide the negative impact of projects, reducing the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya credibility of the financial statements because the reported numbers do not reflect Universitas Brawijaya Universitas Brawijaya

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Universities B The effect of free cash flow on earnings management is moderated with as Brawijaya independent commissioners and audit committee meeting frequencies simultaneously as the representation of good corporate governance factors is still rarely tested. Moreover, to the best of the researcher's knowledge, there is still no study that has yet analyzed the effect of surplus free cash flow agency problem on earnings management using the two specific factors of good corporate governance simultaneously as the moderating variables. There is one last motive on the importance of this research. According to SFAC No.1, financial reporting must provide useful information

statements that should be transparent and reliable since financial information will be used by potential investors, creditors, and other users in making investment, credit, and other similar rational decisions. Accordingly, this research considers the importance of good corporate governance in this specific research phenomenon and uses it as the moderating variable with a hope that the managers' opportunistic behavior will be minimized, decrease in the agency conflicts decreasing, increase in financial report credibility and transparency, increase disclosure that can limit information asymmetry and able to detect earnings management in the financial report.

Given the important motives of this study in the accounting field., thus, this Inive research was conducted to evaluate the effect of surplus free cash flow agency problem.

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towards earnings management, especially after being moderated with good corporate Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

governance factors in the manufacturing industry listed in Indonesia Stock Exchange

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Univer 1.2 Research Questions sitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

As described previously, the free cash flow has been found to impact earnings itas Brawijaya Universitas Brawijaya

management by prior studies with some mixed and inconclusive results. The impact of

free cash flow on earnings management can be positive or negative. However, based

on theory and previous research results, researchers believe that there is a positive

effect of surplus free cash flow agency problem on earnings management.

In public companies, transparency of financial statements is a basic requirement in financial reporting. This is because the scope of responsibility of a public company includes various parties, such as investors, creditors, employees, government, and the

general public. These stakeholders will later use the information in the financial

statements to compare and assess the financial impact that will arise from the economic

decisions they make. Therefore, this study adds some additional measurements to

represent good corporate governance, which is used as the moderating variable in this

study. By adding the good corporate governance factors, it is hoped that it could give

different impact on the relation between surplus free cash flow agency problems on

earnings management. Given the issues, the research questions of this study, therefore,

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1. Does the surplus free cash flow agency problem have a positive effect on

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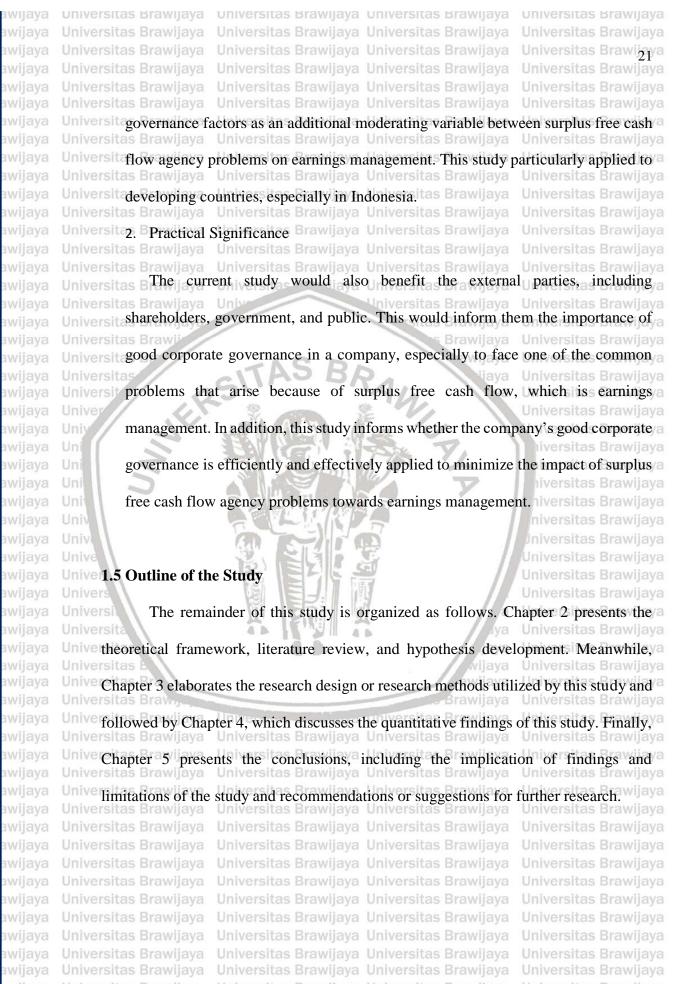
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findings, suggesting the relationship between surplus free cash flow agency

Universitas Brawijava Universitas Brawija problems towards earnings management. More importantly, it adds good corporate

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Univer2.1 Agency Theory iversitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universities B Agency theory is a theory that occurs through the development of accounting Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya research. This theory is a modified form of the development of financial accounting Universitas Brawijaya Universitas model by adding aspects of human behavior into economic models. Jensen and Universitas Brawija Meckling (1976) describe an agency relationship occur when one or more persons or the principles employ another person or the agent to perform some services on their behalf, agency theory also stated that company has a collection of a contract between the owner of the resource (principal) and the manager (agent) who took care of the use and control of these resources which include all the things related with company's operation.

Agency theory is usually used to explain certain accounting issues such as conflict of interest (Bukit & Iskandar, 2009). According to the agency theory, the relationship between owners and managers is difficult to create due to their conflicting interests, and those conflicts of interests are frequently happening. A conflict of interest between principal and agent can cause problems known as agency problem that involves an asymmetric information is condition imbalance information for the agent in a position to have more information about the company than the principal. The presence of asymmetric information has led to the possibility of conflict between the principal and agent (Susanto et al., 2017). In short, an agency problem is defined as a problem that occurs because principal is dissatisfied with the outcome of an agent's

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performance. Va

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1976). The manager tends to follow their interest to maximize their benefits. On the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

other hand, the stockholders as the one who mostly owns the resources, who unable to Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

deeply control the company, also have their own interest on the company's profit. Universitas Brawijaya Universitas vijaya Universitas Brawijaya Universitas Brawijaya

Universit In addition, agency theory examines how management's behavior could follow the itas Brawijaya Universitas Brawijaya stockholder's interest and reduce the agency cost. According to Eisenhardt (1989), the agency theory uses three assumptions on human behavior, which consists of:

- Humans are generally concerned with their interests first (self-interest).
- 2. Humans have limited thinking power about future perceptions (bounded rationality).
- 3. Humans always avoid risk (risk averse).

Unive Based on the basic assumption of human nature, humans will act opportunistically, prioritizing their own personal interest.

Lastly, the agency theory states that the association between SFCF and the lowgrowth opportunities was considered the main problem in which executive managers start making investment decisions that would reduce shareholder wealth (Al-Omush et Universitas Brawijava Universitas Brawijava Universitas Brawijava Universitas Brawijava al., 2018). According to agency theory, the economic unit managers in companies with iversitas Brawijaya Universitas Brawijaya high free cash flow and low growth opportunities investment often tends to invest in additional projects or even projects that have negative net present value (negative NPV)

lead to unwise investments of surplus free cash flow. To conceal and cover the effects

of investments that do not maximize shareholder wealth, the manager tends to



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Unive 2.2 Surplus Free Cash Flow Agency Problem Stas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitias BJensen and Meckling (1976) were the first ones to conduct a study regarding Universitas Brawijaya Universitas diaya Universitas Brawijaya Universitas Brawijaya the agency theory, yet the idea of SFCF was also originally proposed by Jensen. Jensen Universitas Brawija tas Brawijaya Universitas Brawijaya defined surplus free cash flow as net cash flows after deducting the needs of positive NPV projects. Also, surplus free cash flow is the surplus cashes due to the implementation of all projects with a positive net present value during a period by the company. (Nouri and Gilaninia, 2017).

More simply, surplus free cash flows are cash that, after covering the investing activities, working capital needs, debt payments in which will be available for/in the company. The company's surplus free cash flow is a factor to measure the company's value and function, and it indicates the cash which the company has it and it is distributable among the investors (Paykani, 2012). In other words, surplus free cash flow is a combination of two free cash flow variables and the growth opportunities that simultaneously show the surplus cash and growth opportunities' effect in performing the earnings management. This variable is determined according to two variables of ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya cash flow and companies' clerical value and demonstrate that although a company has SFCF, it possesses low growth opportunities (Rusmin et al., 2014).

Universities In addition to the accounting concept, surplus free cash flows also represent idle cash flows since it reflects the financial resources at the management's discretion need to allocate. The advantage of the definition was that it indicated how much the actual Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya



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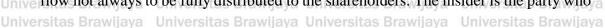
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free cash flows were available for management to exercise. The surplus free cash flow Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya theory stated that managers of firms with funds in excess or called free cash flow tend Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya to not distribute the cash to shareholders, which contrasts with the expectation of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya shareholders. Shareholders obviously expect them to invest the surplus free cash flow Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya in profitable investments that will generate high returns in the future. Instead, managers Universitas Brawijaya Universitas often use surplus free cash flow on investments with negative present values, such as itas Brawijaya Universitas Brawijaya either maintain surplus amounts of cash or invest excessively in real assets (D'Mello and Miranda, 2010).

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Jensen (1986) also argued that too much SFCF would result in internal insufficiency and the waste of corporate resources, thus leading to agency costs as a burden of shareholder's wealth. Furthermore, not only Jensen, the research that done by Wang (2010) also proves that a higher level of surplus free cash flows would lead to more of unnecessary administrative waste and inefficiency. The behavior mentioned before surely have a negative impact on the welfare of the shareholders because it may lead to earnings management practices that mislead shareholders to believe that their manager always seeking high profit with their excess cash. In addition, these overinvestments, while maximizing managers' personal utility, will also reduce the sitas Brawijaya Universitas Brawijaya Universitas Brawijaya firm value (D'Mello and Miranda, 2010). Universitas Brawijaya Universitas Brawijaya

Based on the agency theory, agency problems emerge because of the difference in interest between the insider and the outsider, both are likely to maximize their interest and this problem is related to the firm's free cash flow usage. Conflicts of interest that occur among the parties that exist in the firm cause the surplus free cash flow not always to be fully distributed to the shareholders. The insider is the party who



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awijaya awijaya can control the firm effectively, while the outsiders have less ability to control.

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Therefore, the managers desire to increase their power through control over greater Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya resources that boosted the insider to invest in an attempt to enlarge the firm (Jensen, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

1986). Consequently, the insider conducts harmful behavior in terms of excessive Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universities Brawijaya Universities Brawijaya Universities Brawijaya Universitas Brawijaya Universitas

Universities B Hence, surplus free cash flow will provide opportunities and encouragement for as Brawijaya Universitas Brawijaya the insider to invest. Chung et al. (2005a) state that investment projects benefit personal insiders more because the insider is able to choose to invest in unprofitable projects for their interest. As a result, the firm might be in a low growth position. In addition, the absence of monitoring by the outsider leads the insider to hide information regarding the activities in financial statements or to hide the manipulation of accounting numbers.

An outsider is a group of stakeholders with no information access within the company (Fakhroni, et al., 2018).

Based on surplus free cash flow agency theory, it is obvious that when surplus free cash flow increases, managers will have the incentive to engage in projects that have a negative return (Jensen, 1986). Thus, managers may undertake non-optimal actions such as making value-destroying investments that result in increased agency costs, a reduction of firm value, and senior executives being pushed into a vulnerable situation. Therefore, the insider behaves opportunistically, which is contrary to the objectives of the firm which maximizing the value for all shareholders. Accordingly, the firm policy taken by the insider results in decision-making is likely to become harmful such as investing excess (investment inefficiency) by using the firm's surplus Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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awijaya awijaya Jensen (1986) linked the agency problem with surplus free cash flows so that Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

management might abuse the surplus free cash flows with their authority, when the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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investment opportunities were not readily available to the firm. Therefore, surplus free Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

cash flows to management were agency costs to shareholders (Wang, 2010). In Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

addition, SFCF associated with low-growth opportunities has been identified as a ijaya Universitas Brawijaya Universitas Brawijaya

significant agency problem where managers make expenditures that reduce shareholder Universitas Brawija

Unive wealth.

There is a way for managers to hide their inefficiency in using the firm's surplus free cash flow. In order to disguise the negative effects of such investment, managers are used likely to manipulate earnings to increase productivity. Such manipulation may lead to a false picture of the financial status of the company; this makes it possible to do better financing an inefficient market, cash benefits, and more non-cash to be followed for managers. In addition, using the accounting discretion to increase reported earnings is another way to disguise the effects of their behavior related to non-wealthmaximizing investments (Rusmin et al., 2014).

Management will try to cover these losses that come from the return of unprofitable projects that were funded using surplus free cash flow by using earnings management. In a study by Chung et al. (2005a) examine the relationship between free cash flow surplus and external supervision on earnings management. It was revealed that the surplus free cash flow has a positive relationship with earnings management.

In addition, Prajaya (2016) also believes that the surplus of free cash flow has a positive

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but there are low growth opportunities, agency problems may be created or occur. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Managers may engage in earnings management to show a better performance for the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

company, covering up their unwise usage of the firm's surplus free cash flow. As a Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

result, the published financial data do not present a true economic picture of the Universitas Brawijava Universitas wijava Universitas Brawijaya Universitas Brawijaya

University company since the manager increases or decreases the reported earnings. It leads to Universitas Brawija itas Brawijaya Universitas Brawijaya

non-optimal decision making by shareholders (Bukit and Iskandar, 2009). as Brawlaya

2.3 Earnings Management

Earnings management is an act of managers who choose policies accounting to achieve some specific objectives, and accounting policies referred to is the use of accruals in preparing the reports. According to Sugiri (1998), the narrow definition of earnings management is the behavior of managers to "play" with the discretionary accruals component in determining the number of earnings. According to Scott (2011),

the four patterns of earnings management, namely:

Universit a. Taking a Bath

The first earnings management pattern is by reporting earnings in the current period with a very low or very high value as seen from the company's condition.

Universitab. Income Minimization Brawijava Universitas Brawijava Universitas Brawijava

The second earnings management pattern is like Taking a Bath but not as bad Universities as Taking a Bath pattern. In this pattern, the earnings in the current period are

reported to be lower than the actual earnings.

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        Universitac. BTaxation Motivation's Brawijaya Universitas Brawijaya
        Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya
        The motivation for tax savings is the most obvious motivation for earnings
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        management. Various accounting methods are used in order to save income tax.
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        Universitad. BCEO Change iversitas Dawijaya Universitas Brawijaya Universitas Brawijaya
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                 CEOs who are approaching retirement will tend to increase income to increase
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                 bonuses. If the company's performance is poor, the CEO will maximize revenue so
                                                        MA
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                 as not to be laid off.
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                    Initial Public Offering (IPO)
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                 Companies that are going to go public do not have market value and cause
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                 managers to carry out earnings management in the hope of increasing the
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                 company's stock price.
                     The Importance of Providing Information to Investors
                Information about company performance must be conveyed to investors so that
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        Universit earnings reporting needs to be presented to continue to judge that the company is a
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        Universitain good standing versitas Brawijaya Universitas Brawijaya Universitas Brawijaya
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        Universit In short, earnings management occurs when managers use judgment in financial a
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        Univer reporting and preparation of transactions to change financial reports, thereby
        misleading stakeholders about the company's economic performance or affecting
        Universitas Brawijava Universitas Brawijava Universitas Brawijava Universitas Brawijava
        outcomes related to contracts that depend on the accounting figures reported (Dewi,
        Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya
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The concept of a good corporation is developed in line with the public's demand Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya for a healthy, transparent, and responsible business life. Thus, corporate governance is Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya a system that is used to directly control the company's business activities. Also, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya corporate governance contains an understanding of the regulations of duties of every division and their responsibilities to other parties who might have different interests in the company. Of course, corporate governance also includes the relationship between the stakeholders involved and covers the company's objectives. The parties involved in corporate governance are shareholders, management, and the board. As for other stakeholders are employees, suppliers, customers, banks and other creditors, regulators, the environment, and the community (Agustia, 2013).

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Therefore, corporate governance is one of the steps needed to be done to increase the company performance by monitoring management performance and ensuring management accountability to stakeholders or shareholders (Prabowo, 2014). In order to carry out good corporate governance, a listed company is required to have an independent commissioner and an audit committee. To achieve Good Corporate Governance (GCG) based on the 2006 National Committee on Governance Policy, five principles should be followed, including: Universitas Brawijaya Universitas Brawijaya

ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universital Baransparency versitas Brawijaya Universitas Brawijaya Universitas Brawijaya

To maintain objectivity in running a business, companies must provide material universities and relevant information in a way that is easily accessible and understood by Universitas Bstakeholders, įversitas Brawijaya Universitas Brawijaya Universitas Brawijaya



Universita2, BAccountabilityersitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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A company must be accountable for its performance in a transparent and fair Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya manner. Therefore, the company must be managed properly, measured, and in Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Baccordance with the interests of the company by taking into account the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Binterests of shareholders and other stakeholders. awijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universita 3. Responsibility

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Companies must comply with laws and regulations and carry out responsibility for the community and the environment so that long-term business continuity can be maintained and gain recognition as a good corporate citizen.

4. Independency

To facilitate the implementation of the principles of good corporate governance, companies must be managed independently so that each organ of the company does not dominate each other and cannot be intervened by other parties.

Fairness

In carrying out its activities, the company must pay attention to the interests of shareholders and other stakeholders based on the principles of fairness and Universitas Bequality.

In addition, companies must also meet the requirements in terms of corporate Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya structure in order to implement GCG mechanisms. These structures include, among others, the general meeting of shareholders (GMS), the Board of Commissioners, the Board of Directors, the Audit Committee, Audit Quality and so on. The audit committee is a committee that oversees the financial reporting process (Miko &



Kamardin, 2015). In accordance with Agency Problems, the audit committee can Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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minimize agency cost which occurs because of Agency Problems. Scholars opined that Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universita Basymmetric Information Wijaya Universitas Brawijaya Universitas Brawijaya

A situation where one party (agent) possesses more, or more detailed, Universitas Brawijaya Universitas P ijaya Universitas Brawijaya Universitas Brawijaya Universitas Binformation than the other (stakeholder). Sitas Brawijaya Universitas Brawijaya

Universit². Conflict of Interest

This conflict occurs among the goals of the principal and goals of the agent. For instance, the principal objective is wealth maximization while the manager's objective is the sustainability of the business (Eisenhardt, 1989). Therefore, Jensen and Meckling (1976) stated that agency problems exist between principal and agent because of the differences of objectives.

In terms of the characteristics of the board of directors and corporate ownership

Unive in GCG mechanisms, they should enhance the fairness among the different University stakeholders in the business which leads to minimizing the agency problems (Lo et al., 2010). For example, independent directors should ensure that financial decisions are made in the best interests of all shareholders and should not result in earnings or cash Universitas Brawijava Universitas Brawijava Universitas Brawijava flows that are biased toward the managers, controlling shareholders, nor the minority Universitas Brawijaya Universitas Brawijaya

shareholders (Lo et al., 2010). Furthermore, the governance mechanisms should also

In relation to earnings management, financial statements are prepared and used

by management to accountable to stakeholders. Accountability is measured from the





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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Universities B Thus, from various studies, the GCG mechanism has a significant influence on a itas Brawijaya Universitas Brawijaya earnings management. It is necessary to monitor the behavior or policy management so that the earnings management is not arbitrarily made by the company's management awijaya (Luthan et al., 2016). Previous research also suggests that GCG could serve as an awijaya effective mechanism to alleviate and constrained management's opportunistic awijaya awijaya behaviors which will improve a company's reporting quality, and increase the firm awijaya value (Marra et al., 2011). awijaya awijaya Therefore, GCG supported by strong regulation, can avoid financial disclosure from any possible misstatements (Puspitaningrum & Atmini, 2012). The argument underlying this is that when the company had established a mechanism GCG,

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financial performance achieved by the management, which is reflected in the profit-Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya loss generated. However, sometimes management tends to manipulate the earnings in Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya order to meet the stakeholder's wants which leads to the distortion of financial

statements and greater information asymmetry, and a general erosion of confidence in Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

the interest of stockholders needs to be re-examined, especially in order to see the

especially along with strong regulation, then the behavior of management to manage

earnings tends to be reduced, due to monitoring and control by such mechanism, in this

case, are the independent commissioners and the audit committee meeting frequencies.

Yet, the debate over the occurrence influence among corporate governance and

earnings management, that supposedly able to assure that top management will act in

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Independent commissioners are part of the company, who supervise managers Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya in carrying out their duties in reporting financial statements and to properly and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya correctly carry out and implement the Good Corporate Governance (GCG) system Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya standards in the company. Independent commissioners must also be able to act Universitas Brawijaya Universitas independently. The General Guidelines for Indonesian Good Corporate Governance Universitas Brawija itas Brawijaya Universitas Brawijaya states that the function of the board of commissioners is to ensure that the company has carried out its social responsibility, considers the interests of various company stakeholders, and monitors the effectiveness of the implementation of good corporate governance. The independent board of commissioners is directly elected by shareholders in the general meeting of shareholders (GMS) (Amelia and Hernawati, 2016).

According to Rahmawati (2013), independent commissioners are members of the board of commissioners who have no financial, management, share ownership and/or controlling holders or other relationships that can affect their ability to act independently. According to Tiswiyanti (2012), independent commissioners are members of the board of commissioners who are not affiliated with management, other board of commissioners, and controlling shareholders, also free from business relationships that affect their ability to act independently. Independent commissioners are proxied by using the percentage indicator for commissioners from outside the company with all company board members.

The existence of an independent commissioner is very important because in the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive practice of financial reporting, transactions that contain conflict of interest are often

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(Pradipta, 2019).

found ignoring the interests of public shareholders (minority shareholders) and other Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya stakeholders, especially in companies in Indonesia that use public funds in their Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya business financing. The possibility that management has its interests will lead to what Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya is called earnings management, which raises agency problems. Surely, agency Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya problems will reduce the investor confidence in the company's financial reports Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya (Luthan et al., 2016). Thus, to overcome this, the board of commissioners is allowed to have access to company information. However, the board of commissioners does not have authority in the company because the board of directors is responsible for conveying information related to the company to the board of commissioners. That's why independent commissioners play an important role in monitoring the accounting process. They can increase the reliability of the financial statements and ensure the application of internal control system. Moreover, the independent commissioners could also decrease management's opportunities to hold certain information for their interests

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Relating to the size or proportion of the independent commissioners and earnings management. Companies consisting of larger independent boards of commissioners tend to have strong control over management decisions so that earnings management actions or opportunistic behavior management can be minimized. Therefore, the composition of the board of commissioners may also affect management Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya in preparing the financial statements through its role in carrying out the supervisory functions in order to achieve a good quality of reports.

Several previous studies have shown that independent commissioners have a close relationship with earnings management, Reviani & Sudantoko (2012) stated that



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management. The reason is that the proportion of independent commissioners in the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

company is able to reduce earnings management that occurs within the company. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

However, previous research by Nekhili et al. (2016) stated that the board independence Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

or independent commissioners has no significant impact on earnings management. Universitas Brawijaya Universitas diaya Universitas Brawijaya Universitas Brawijaya

Universitias B Thus, based on the theory and research of several previous researchers, it can be a several previous researchers. itas Brawijaya Universitas Brawijaya be assumed that the level of the independent board of commissioners in a company is very important and influential in minimizing earnings management in the company, where the higher the level of independent commissioners in the company the better it is to supervise managers in committing fraud, on the contrary, the lower the level of the independent board of commissioners in the company the weaker the supervision of

2.6 Audit Committee Meeting Frequencies

fraudulent practices by managers.

One of the prerequisites for implementing good corporate governance (GCG) in Indonesian public companies is the existence of an audit committee within the company organization. The audit committee is one part of the corporate governance mechanism in exercising internal control because it has a significant and strategic role in maintaining the credibility of the financial reporting process, which is adequate to prevent the occurrence of earnings manipulation by management in the company and for the implementation of GCG (Agustia, 2013). Based on financial service authority regulation number 55/ PJOK.04/ 2015 article 1, an audit committee is defined as a Unive committee formed by and responsible to the Board of Commissioners in helping carry

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Based on Financial Service Authority regulation number 55/ PJOK.04/ 2015 article

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out the duties and functions of the Board of Commissioners.

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya 10. In carrying out its functions, the Audit Committee has duties and responsibilities

- 1. Conduct a review of the financial information that will be issued by the Issuer wijaya Universitas Brawijaya Universitas Brawijaya Universities or Public Company to the public and/or authorities, including financial reports, sitas Brawijaya Universitas Brawijaya projections, and other reports related to the financial information of the Issuer
 - Conduct a review of compliance with laws and regulations relating to the activities of the Issuer or Public Company;
 - Provide independent opinion in the event of disagreements management and accountants for the services rendered;
 - 4. Provide recommendations to the Board of Commissioners regarding the appointment of an Accountant based on independence, the scope of the assignment, and service fees;
 - To review the implementation of the audit by the internal auditor and supervise the implementation of follow-up actions by the Board of Directors on the findings of the internal auditor; Universitas Brawijaya Universitas Brawijaya
- 6. To review the risk management implementation activities carried out by the Board of Directors, if the Issuer or Public Company does not have a risk Universities | monitoring function under the Board of Commissioners;
- 7. Examine complaints relating to the accounting and financial reporting processes of Issuers or Public Companies; Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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The existence of an audit committee is important for the management of a company.

The audit committee is meant to keep up investors' trust and interests by performing a Universitas Brawijava U

preparation of financial statements (Badolato et al., 2014). In addition, it may also

Universities behavior of management which leads to earnings management

Unive by supervising the implementation of the external audit (Luthan et al., 2016). Brawijaya

Universities Therefore, an audit committee activities related to the frequencies of meetings Universities Universities Brawijaya Universities Expected to be able to weaken the positive association between surplus free cash flow

agency problem and earnings management, considering in the meeting the audit

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issues that have been communicated with management.

Similarly, the audit committee meeting frequencies is also viewed as one of factor that could encourage effective governance (Wang & Campbell, 2012). The greater the number of audit committee meeting frequencies, the greater its ability to be

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more active in conducting more frequent evaluations which might will be able to Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya monitoring the company and minimize any management practices (Kamarudin et al., Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya 2012). Research on the audit committee meeting frequencies has been conducted in Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Indonesia, but the studies have not shown consistent results. Lin et al. (2006) show that Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya the more active the audit committee in conducting formal meetings showed a decrease diaya Universitas Brawijaya Universitas Brawijaya in the level of earnings management. However, the results of this study are contrary to

itas Brawijaya Universitas Brawijaya Pamudji et al. (2009) stated that the number of audit committee meetings is not able to significantly decrease the earnings management practices.

In sum, previous research has discovered that the audit committee meeting frequencies might plays an important factor that contributes to a higher quality of financial reporting, decreases the likelihood of fraudulent reporting, and decreases the level of earnings management (Bukit & Nasution, 2015). Thus, governance mechanisms such as audit committees with high meeting frequencies might able to significantly monitor and control the earnings management practices conscientiously, particularly when firms have high free cash flow.

2.7 Manufacturing Companies Listed in Indonesia Stock Exchange

One of the extraordinary achievements that are usually become the companies or businesses goals is when a company can offer its shares and it can be purchased by the general public. The companies that able to do such things are known as public companies. There are a lot of steps or requirements that need to be fulfilled by the companies before they can sell their shares to public. The process of offering shares of Unive a private company to the public in a new stock issuance so that the general public can Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya



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University the consumption sector. Data samples were taken from manufacturing companies listed Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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on IDX. This is because manufacturing companies are attracted by most investors, and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

from several cases, earnings management practices are often found in manufacturing Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Researchers took samples from all sectors of manufacturing companies,

especially companies that submit financial reporting periods for 2015-2019. The results Universitas Brawija s Brawijaya Universitas Brawijaya

of this study are based on the latest financial conditions in the company. The selection

of manufacturing companies is also based on considerations of homogeneity in their

production activities and this industrial group is relatively larger when compared to

other industrial groups on the IDX (Rahiim, 2014).

2.8 Research Framework

In short, the effect of surplus free cash flow agency problems with earnings management on companies is summarized in the following figure below. The theory that underlies the relationship is the Agency Theory. Based on the agency theory, surplus free cash flow in a company will cause the occurrence of agency problem in a company. Thus, through the presence of Good Corporate Governance (GCG) factors such as independent commissioners, and audit committee meeting frequencies, the impact of agency problems may be reduced.

Universities It is also important to note that the occurrence of surplus free cash flow in a company may not always be a good sign, especially for the principal, since a negative impact afterward may occur. Indeed, surplus free cash flows could render a firm with investment opportunities that could generate more value for the firm, and that is the



Universitas Brawijaya awijaya awijaya positive impact. However, most of the time, the manager will invest the cash in Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unprofitable projects and manipulate the earnings in order to perform a good financial Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya report for the principal, which is called earnings management. Thus, the chance of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya management to perform earnings management is high. Especially if the effect of awijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas BThis study used GCG factors as the moderating variable. GCG factors may awijaya awijaya itas Brawijaya Universitas Brawijaya awijaya minimize the impact of agency problems that leads to reducing earnings management awijaya awijaya in the company. The figure below incorporates factors or variables that are discussed awijaya awijaya in this study and influence each other. Iniversitas Brawijava awijaya awijaya awijaya awijaya wijaya **Dependent Variable:** Independent Variable: awijaya Earnings Management Surplus Free Cash Flow awijaya (Y_1) Agency Problem (X₁) awijaya awijaya Universitas Brawijaya awiiava tas Brawijava Moderating Variables: Good Corporate Governance tas Brawijaya 1. Independent Commissioners (X₂) awijaya Audit Committee Meeting Frequencies (X₃) awijaya awijaya tas Brawijaya awijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya

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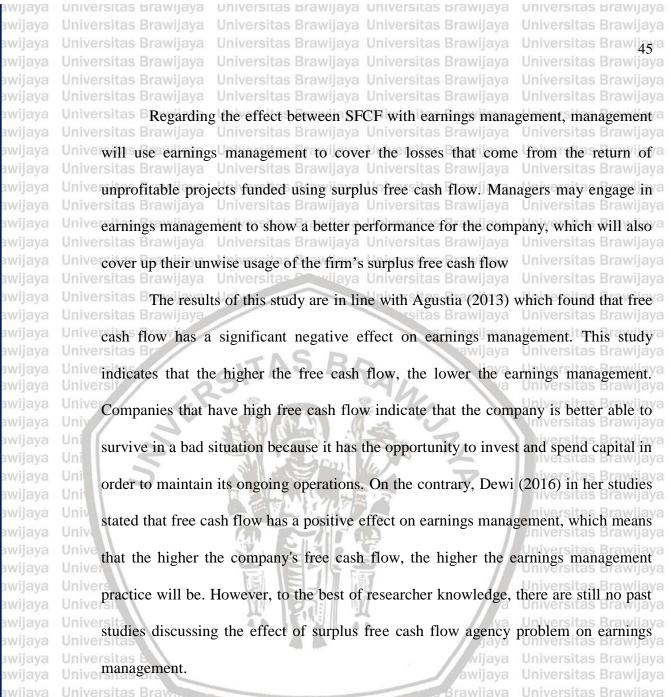
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This section briefly reviews and explains the prior studies that examine the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya effect between surplus free cash flow with earnings management moderated with Good Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Corporate Governance factors. The findings of previous studies would be useful for the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya current study. They help to provide the foundation for the relationship between Universitas Brawijaya Universitas variables and from which hypotheses can be developed (Sekaran and Bougie, 2013). The following studies contain arguments regarding the influences between variables. Jensen (1986) states that managers in companies with high SFFC and low growth opportunities will tend to invest or engage in projects with small or negative NPVs. These projects generally will provide personal benefits to managers and will have a negative impact on shareholders. This situation has led to the emergence of a surplus free cash flow agency problem. Jensen (1993) empirically examined and confirmed that there is a relationship between the agency problem and SFCF, which specifically in his research, it became the main reason the investment returns in the US fell. In addition to SFCF, Jensen also argued that the self-interest motive of management was an important factor that becomes the foundation of the occurrence of agency problems among the principal and agent, but it also leading to the occurrence of agency costs. Another argument that stated a positive effect between SFCF and agency problems also comes from Al-Dhamari and Ismail (2014). They stated that their research result to some extent supports the surplus free cash flow agency theory. In surplus free cash flow agency theory, firms with high free cash flow but low growth

opportunities are more likely to experience a reduction in their firm's value. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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H1: There is a positive effect of Surplus Free Cash Flow Agency Problem on

Earnings Management. Brawijaya Universitas Brawijaya



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Univermanagers in committing fraud.

There are also several studies discussing the effect of good corporate governance factors towards earnings management, whether the results are positive or negative influence. Such as the effect of independent commissioners on earnings management. Based on the theory and previous research, it can be assumed that the level of the independent board of commissioners in a company is very important and influential in minimizing earnings management in the company, where the higher the level of independent commissioners in the company the better it is to supervise

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Past studies done by Susanto, Pradipta, & Djashan (2017) stated that an independent board of commissioners could reduce earnings management problems that arise as the effect of free cash flow. However, other studies done by Prabowo (2014) found out that there is a partial positive influence between independent commissioners on earnings management. He stated that the board of commissioners from outside of the company could cause problems in coordination which causes a decrease in the supervisory function, it may interfere with independent commissioners in making decisions. On the opposite, studies were done by Agustia (2013) and Amelia & Hernawati (2016) stated that independent commissioners have no significant effect on earnings management. This proves that the independent commissioners in the company have not worked independently.

H2: Independent Commissioners weaken the positive effect of Surplus Free Cash

Flow Agency Problem on Earnings Management. Brawijava



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Universitas BThe second factor of good corporate governance used in this study is audit Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

committee meeting frequencies. Audit committee with high meeting frequencies might Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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plays an important factor that contributes to a higher quality of financial reporting, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

decreases the likelihood of fraudulent reporting, and decreases the level of earnings Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

management (Bukit & Nasution, 2015). Thus, audit committees with high meeting ijaya Universitas Brawijaya Universitas Brawijaya

frequencies are expected to be able to monitor and control the earnings management

practices conscientiously, particularly when firms have high free cash flow or high Universitas Brawijaya

employee diff.

Studies by Lin et al. (2006) found that audit committee meeting frequencies does reduce the extent of earnings management in the presence of free cash flow. The evidence shows that the greater the audit committee meeting frequencies, the greater its ability to be more active in conducting more frequent evaluations which might will be able to monitoring the company and minimize any management practices. On the other hand, studies by Pamudji et al (2009) stated the number of audit committee meetings is not able to significantly decrease the earnings management practices.

H3: Audit Committee Meeting Frequencies weaken the positive effect of Surplus

Free Cash Flow Agency Problem on Earnings Management.

Companies with surplus free cash flow tend to be the cause of agency problems that encourage the managers to manipulate the earnings on their financial reports in order to hide their earnings results regarding their investment on negative NPV projects. But, previous studies believe that Good Corporate Governance (GCG) factors Unive such as independent commissioners and audit committee meeting frequencies should

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Univer3.1 Research Design versitas Brawijaya Universitas Brawijaya

Universities B This study uses a quantitative method for examining the relationship between a Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

variables. Quantitative research is defined as an approach conducted by researchers to diaya Universitas Brawijaya Universitas Brawijaya

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test the theory by examining the relationships among the predetermined variables

experienced by particular populations (Creswell, 2014). In addition, quantitative data

is data in the form of numbers. The variables in this study can be operationalized and

measured so that they can be analyzed through the use of statistical tools (Creswell,

2014), and finally enable the researchers to draw conclusions from the result of the statistical analysis.

3.2 Population and Samples

The population and samples used in this study are the Indonesian manufacturing

firms listed on Indonesian Stock Exchange (IDX) from the period 2015-2019. Firstly,

the reason why this study decided to take a sample from the population in the

manufacturing industry is that companies in the manufacturing industry have

characteristics that make them different from banking or financial service companies,

it is because the financial reporting of manufacturing companies is not much influenced

by various existing government regulations so that it rarely changes. Thus, this sample

becomes relevant to be used in this study.

Universities Moreover, the justification behind the period selected from 2015 to 2019 for

Unive the samples is that the longer time used is expected to provide more insights into the

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- 1. Manufacturing companies must be listed on IDX from the year 2015-2019. Companies do not publish their financial statements and annual reports for 5 years in a row will be excluded.
- The currency used in the financial statements is expressed in Rupiah.
- University 3. The companies have all the data needed in this study.

Companies that do not satisfy the above criteria were excluded from the samples ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijava immediately as their lack of information or unavailability of required data would distort Universitas Brawijaya Universitas Brawijaya the statistical analysis and results of this study. Therefore, the number of samples used Universities Brawijaya Universities Brawijaya Universities Brawijaya Universitas Brawijaya Universitas Brawijaya

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Unive 3.3 Data Collections: Type and Source of Data tas Brawijaya

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This study uses secondary data as the main source of data. The secondary data Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya is defined as the data, which is not directly collected or made by the researcher from Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya the primary source such as questionnaires (Sekaran & Bougie, 2013). Rather, it is Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya collected and made by someone or organization other than the researchers, such as Universitas Brawijaya Universitas books, database, and reports. This study mainly obtains the required data from as Brawijaya Universitas Brawijaya Indonesian Stock Exchange (IDX) database. The data comprises the annual reports and financial reports of the Indonesian firms. Data collection methods in this study are documentation and literature methods. With these methods, the supporting documents are studied in order to obtain the information needed. These documents include annual reports, journals, articles, and other supporting documents.

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3.4 Variable

There are several variables used by this study to analyze and examine whether there is relationship between them. The set of variables used in this study consists of an independent variable, a dependent variable, and moderating variables.

Universital. Independent Variables

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Sitas Burplus Free Cash Flow Agency Problem (as Brawijaya

Surplus free cash flow is a net cash flow that has been reduced by cash requirements to finance the company's investment needs. A large amount of



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        Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya
        Surplus free cash flow of the company causes serious agency problems.
        Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya
        However, the SFCF agency problem is a dummy variable, which is 1 for
        Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya
        companies that have SFCF above the sample average, and the probability of
        Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya
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        Iniversities growth (proxied by the price to book ratio) are below the sample mean for each
        Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya
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        vear of observation. While 0 for companies that do not have SFCF agency
        Universitas Brawijaya Universitas
                                            kijaya Universitas Brawijaya Universitas Brawijaya
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        problems. A company is said to have SFCF agency problems if the company
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                                                         itas Brawijaya Universitas Brawijaya
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                    has high SFCF but low growth opportunities. Thus, SFCF is measured using a
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                    measure developed by Lehn and Poulsen (1989), which is also used by Chung
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                    et al. (2005), as follows:
                                                                        CSDIVi<sub>t</sub>)
                                    (INCi_t - TAXi_t - INTEXPi_t - PSDIVi_t
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                       SFCF =
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                                                        TA_{i;t\text{-}1}
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                    Explanation:
                       SFCF
                                 : Surplus free cash flow
                       INC
                                  Operating income before depreciation
                                 · Total taxes
                       TAX
                       INTEXP
                                 Interest expense
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                       PSDIV
                                Preferred stock dividends
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        Universitas Braw CSDIV Common stock dividends Brawijava
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                             Total assets at the beginning of the fiscal year ersitas Brawijaya
        Universitas Brawil Aa
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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Then, the opportunity to grow is proxied by the price to book ratio (PBR). A Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias high PBR indicates that investors perceive the company to have a high growth Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universities opportunity. Therefore, the growth opportunity is measured by the ratio Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universities between price per share and book value per share as used by Chung et al. awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universities B (2005). PBR shows the difference between the market value of equity and the Universitas Brawijaya Universitas wijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Book value of equity. The greater the ratio, the greater the growth opportunity itas Brawijaya Universitas Brawijaya Universitas Byalue. **PRICE**_{it} awijaya $PBR_{it} =$ **Explanation:** : Price-to-book-ratio firm i for the fiscal year-ending in year t **PBR**_{it} awijaya Stock price of firm i for the fiscal year-ending in year t **PRICE**_{it} BV_{it} Book value of equity per share of a firm I for the fiscal yearending in year t Universitas Dependent Variable awijaya The dependent variable in this study is earnings management. versitas Brawijaya Universitas Brawijaya Earnings management Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Earnings management is defined as an attempt by company managers to intervene or influence the information in the financial statements with the aim of tricking stakeholders who want to know the company's performance and condition (Sulistiyanto, 2008). Earnings management in this study is measured

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Universitas Brawijaya using discretionary accruals through the model of Kothari et al. (2005), as Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bfollows: Universitas Brawijaya Universitas Brawijaya $TACC_{it} = EBX_{it} - OCF_{it}$ Universitas Bwhere va : Total accruals for firm i at the end of year t Universitas BTACCita : Earnings before extra-ordinary items for firm i at the end of year t Operating cash flow for firm i at the end of year t has Brawijaya By using the equation mentioned above, total accruals for the firm at the end of each year can be determined. Thus, the regression coefficient can be calculated $TACC_{it}/TA_{it-1} = a_1 (1/TA_{it-1}) + a_2 [(\Delta REV_{it} - \Delta REC_{it})/TA_{it-1}] + a_3 (PPE_{it}/TA_{it-1}) + a_4 (PPE_{it}/TA_{it-1}) + a_5 (PPE_{it-1}/TA_{it-1}) + a_5 (PPE_{it-1}/TA_{it-1}) + a_5 (PPE_{it-1}/TA_{it-1}) + a_5 (PPE_{it-1}/TA_{it-1}) + a_5 (P$ $_{1}) + a_{4} \left(ROA_{it-1} \right) + \varepsilon_{it}$: Total accruals for firm i at the end of year t inversitas Brawijaya Universities Brawijaya versitas Brawijaya Universitas Brawijaya Universitas Brawijaya The change in revenue for firm i between years' t and t-1Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya : The change in receivables for firm i between years' t and t-1: Gross property, plant and equipment for firm i at the end of niversitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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awijaya	Universitas	By using t	the regression coefficient above, the nondiscreti	onary accruals value
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awijaya	Universitas	can be cal	culated by using the following formula: wildya	Universitas Brawijaya
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awijaya	Universitas	B NDACCir	$a_{i} = a_{1} (1/TA_{it-1}) + a_{2} [(\Delta REV_{it} - \Delta REC_{it})/TA_{it-1}]$	$+ a_3 (PPE_{it}/TA_{it-1}) +$
awijaya	Universitas	Brawijaya	Universitas Brawijaya Universitas Brawijaya	Universitas Brawijaya
awijaya	Universitas		Universitas Brawijaya ₄ (ROA _{it-1}) as Brawijaya	Universitas Brawijaya
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awijaya	Universitas	BNDACC	: Nondiscretionary accruals for firm i at th	
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awijaya	Universitas	TA_{it-1}	: Total assets for firm i at the end of year t	
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awijaya	Univer	$\Delta \text{REV}_{\text{it}}$	The shares in never to for time i between	
awijaya	Univ	ΔKE V _{it}	: The change in revenue for firm i between	I years t and t – 1 Universitas Brawijaya
awijaya	Uni	ADEC	TI. 1	vivoreitos Provilovo
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awijaya	Uni	DDE	: Gross property, plant and equipment for	niversitas Brawijaya
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awijaya	Univer	ROA_{it-1}	: Return on assets for firm i at the end of y	ear t – I Universitas Brawijava
awijaya	Univers	A C. 1		Universitas Brawijaya
awijaya	Universit		ulating the nondiscretionary accruals, the discre	
awijaya	Universita		A LOUIS AND A LOUIS AVA	Universitas Brawijaya
awijaya	Universitas	the compa	any for each year can be determined using the fo	ollowing equation:
awijaya	Universitas		wijaya	Universitas Brawijaya
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awijaya	Universitas	Braw.,	$DACC_{it} = TACC_{it} - NDACC_{it}$	Universitas Brawijaya
awijaya	Universitas	Brawijaya	$DACC_{it} = TACC_{it} - NDACC_{it}$	Universitas Brawijaya
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awijaya	Universitas	$TACC_{it}$	Univ: Total accruals for firm i at the end of year	rtiniversitas Brawijaya
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awijaya	Universitas	NDACC _{it}	Univ: Nondiscretionary accruals for firm i at th	e end of year t
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Universitas Brawijaya This research use income increasing earnings management and income Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya decreasing earnings management. This research gives more attention to the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya degree of the earnings management rather than to the direction of the earnings Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya management. Thus, the discretionary accruals result of the sample are converted Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universities into an absolute number. In more detail, in order to avoid any determination diaya Universitas Brawijaya Universitas Brawijaya Universitias Bwhich stated that income decreasing earnings management shown as a low Universitas number of earnings management while the income increasing earnings management shown as a high number of earnings management, the discretionary accruals result is needed to be converted to an absolute number. In short, its needed to be converted because the number used for data processing should not reflect any direction or sign whether it is negative or positive.

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3. Moderating Variable

The moderating variable used in this study is Good Corporate Governance factors,

University which include; Independent Commissioners and Audit Committee Meeting

Frequencies.

a. Independent Commissioners Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitas BrawThe independent commissioner variable can be measured by dividing all Universitas Brawijaya Universitas Brawijaya Universitas Brawmembers of the independent commissioner to the total board of Universitas Braw commissioners in the sample company. The data scale used is the ratio.

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Guna and Herawaty (2010) with the following formula:

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Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Bexplanation iversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Univ: Earnings Management sitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Univ: Constantawijaya Universitas Brawijaya awijaya Universitas Bawijaya : Regression Coefficient awijaya awijaya Univ: Surplus Free Cash Flow Agency Problem Universitas Brawijaya awijaya Universitas Bxwijaya iiava Universitas Brawijaya awijaya Univ: Independent Commissioners Brawijaya awijaya Universitas Bxwijaya awijaya Universitas BX awijaya : Audit Committee Meeting Frequencies awijaya awijaya awijaya awijaya In addition, this study also uses a rule of thumb for the acceptance and rejection awijaya of hypotheses. The hypothesis testing carried out using a significance level of awijaya awijaya 0.05 ($\alpha = 5\%$). If the significance level is <0.05, then H₀ is rejected, and H₁ is awijaya awijaya accepted, or there is a significance effect. On the opposite, if the significance awijaya awijaya level is >0.05, then H₀ is accepted, and H₁ is rejected, or there is no significance awijaya awijaya effect. awiiava awijaya awijaya awijaya Universit²⁴. ^BClassical Assumption Test awijaya amjuya universitas Brawijaya awijaya Universitas Ba. WNormality Test Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Braw The normality test aims to determine whether the confounding or residual/a awijaya awijaya Universitas Brawvariables have a normal distribution. As a basis, the t test and F test assume awijaya awijaya Universitas Brawthat the residual value follows a normal distribution. If this assumption is Universitas Brawviolated, the regression model is considered invalid by the number of a Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawsamples. In addition, the normality test aims to test whether, in the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Rrawijava Universitas Rrawijava

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Universities Braw regression model, confounding or residual variables have a normal Universitas Brawijaya Universitas Bb. Multicollinearity Test wijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas BrawThe multicollinearity test aims to test whether the regression model found Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bray a correlation between independent variables (Ghozali, 2011). A good Universitas Brawijaya Universitas diaya Universitas Brawijaya Universitas Brawijaya Universitas Brawregression model should not have a correlation between the independent sitas Brawijaya Universitas Brawijaya variables. If the independent variables are mutually correlated, then these variables are not orthogonal (independent variables whose correlation value between independent variables is equal to zero). One way to determine whether there is multicollinearity in a regression model is to look at the tolerance value and VIF (Variance Inflation Factor), namely: If the tolerance value is> 0.10 and VIF <10, it means that there is no multicollinearity in the study.

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- If the tolerance value is <0.10 and VIF> 10, it means that there is multicollinearity in the study.
- Heteroscedasticity Test

Universitas Braw The heteroscedasticity test aims to test whether in the regression model Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawthere is an inequality of variance from the residuals of one observation to Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Braw another. If the variance is constant, it is called homoscedasticity, and if it is Universitas Braw different, there is a heteroscedasticity problem. A good regression model is Universitas Braw where a homoscedasticity or heteroscedasticity does not occur. Universitas Brawijaya



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Universitas Brawijaya Universitas AND DISCUSSIONS Va

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Universities B In this section, the results of descriptive analysis, classical assumptions, linear Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya regression analysis, and moderated regression analysis are provided and discussed. The Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya application used to process and calculate the data is SPSS for Windows. Moreover, the Universitas Brawijaya Universitas population of this study is all the manufacturing companies listed on IDX from 2015 Universitas Brawijay tas Brawijaya Universitas Brawijaya until 2019. The number of samples used in this study is 79 samples. In addition, the type of variables used in this study is dependent variable, independent variable, and moderating variables. The dependent variable used in this study is Earnings Management (EM), the independent variable used in this study is Surplus Free Cash Flow Agency Problem (SFCFAP), and the moderating variables used in this study are Independent Commissioners (ICO) and Audit Committee Meeting Frequencies (AUCO).

4.1 Descriptive Statistics

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The results of descriptive statistical analysis are useful to describe the summary of variables used in this study. Descriptive statistics describe the maximum, minimum, means, standard deviations, and variance of the variables. It is expected to provide additional insights or information to the study regarding the effect between Surplus Free Cash Flow Agency Problem on Earnings Management that is moderated by Independent Commissioners and Audit Committee Meeting Frequencies on Indonesian listed manufacturing firms. The results of the research data can be seen in the following Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Univertable. Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya



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awijay	a Universitas Brawija	/a Uni	versitas Bra	wijaya Unive	ersitas Bra	wija Std. Univ	ersitas Braw	ijaya
awijay	Research Variables	∕a N Jni	Minimum	Maximum	Mean	Deviation	Frequency	Percent
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awijay	Free Cash Flow	ya Uni	versitas Bra	wijaya Unive	ersitas Bra	wijaya Univ	ersitas Braw	ijaya
awijay	Agency Problem	ya Uni	versitas Bra	wijaya Unive	ersitas Bra	wijaya Univ	ersit285Braw	ija72.2
awijay	There's Surplus Free	/a Uni	versitas Bra	wijaya Unive	ersitas Bra	wijaya Univ	ersitas Braw	ijaya
awijay	Cash Flow Agency	/a Uni	versitas -	wijaya Unive			ersitas Braw	ijaya
awijay	Problem Sitas Brawija	/a Uni	1	Unive	ersitas Bra	wijaya Univ	ersita10Braw	27.8
awijay	Earnings Brawlla	6			rsitas Bra	wijaya Univ	ersitas Braw	ijaya
awijay	Management	395	-0.535	0.595	-0.067	0.142	ersitas Braw	ijaya
awijay	Independent		TAS	DA		wijaya Univ	ersitas Braw	ijaya
awijay	Commissioners	395	0.200	0.800	0.407	0.101	ersitas Braw	ıjaya
awijay	Audit Committee	Ro	*	St.	1	Univ	ersitas Braw	ijaya
awijay	Meeting Frequencies	395	2	22	6.42	3.633	ersitas Braw	ijaya

Source: Appendix 6

Based on Table 4.1, the results of descriptive statistics as follows:

- 1. There are 285 data or 72.2% that don't have Surplus Free Cash Flow Agency Problem.
- There are 110 data or 27.8% that have Surplus Free Cash Flow Agency 2.

Problem. Data that categorized to have Surplus Free Cash Flow Agency

Universities Problem is data that have Surplus Free Cash Flow above the mean (0,008 for a

2015, 0,031 for 2016, 0,031 for 2017, 0,017 for 2018, 0,039 for 2019) and Price

to Book Ratio below the mean (3,011 for 2015, 3,454 for 2016, 3,163 for 2017,

Universitas B_{3,574} for 2018, 4,069 for 2019). Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universit 3. The Earnings Management variable has minimum score at -0.535, maximum Universitas Brawijaya Universitas Brawijaya

Universities B score at 0.595, mean score at 0.067, and the standard deviation is 0.142. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Research Variables	Coefficients	ay _t a Uni	versSig. BrawijaR ²
(Constant)	-0.077	jaya Uni	versitas Brawijaya
Surplus Free Cash Flow Agency	. //	wijaya Uni	versitas Brawijaya
Problem	0.036	2.294	0.022 0.013

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya The results of the linear regression equation between the Surplus Free Cash Flow

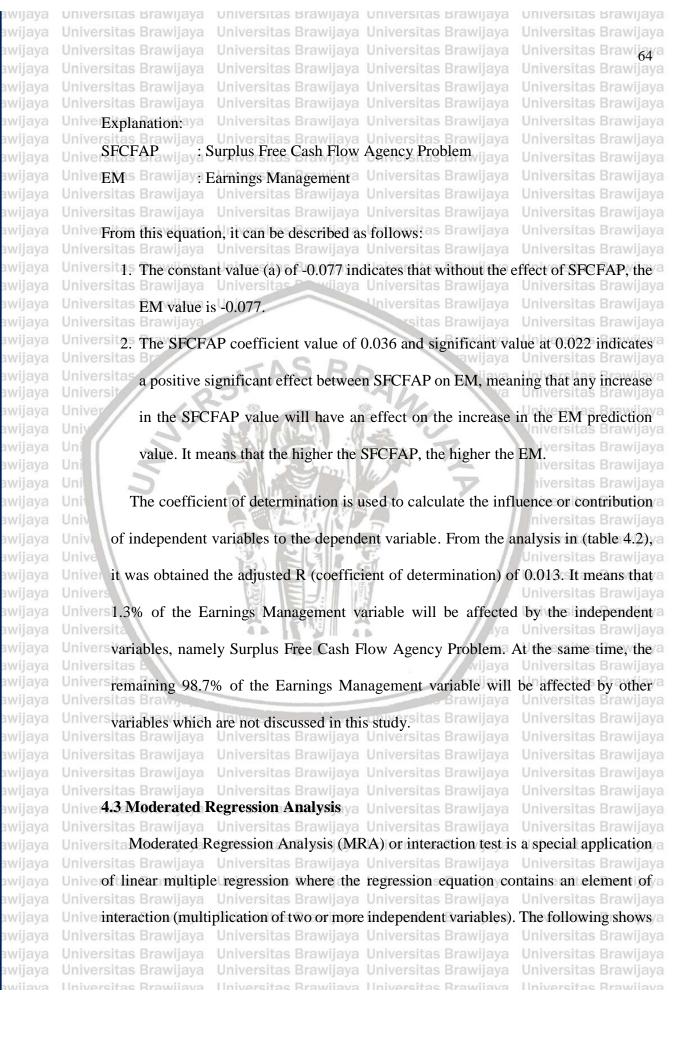
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Agency Problem variable on Earnings Management are presented as follows. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Source: Appendix 7

Universitas Braw EM = a + b1 SFCFAP + e Universitas Brawijaya Universitas Braw $EM = -0.077 + 0.036 SFCFAP + e_{rsitas}$ Brawijava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Unive the results of multiple linear regressions between SFCFAP and EM moderated by ICO

and AUCO. The regression model is obtained as in Table 4.3.

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Universitas Brawijaya Universi Moderation Regression Result

Research Variables Versilas	Coefficients	itas Brawijaya	Sig.ersitas BR2vija
(Constant) ava University	-0.094 Vers	iitas Brawijaya	Universitas Brawija
Surplus Free Cash Flow		itas Brawijaya	Universitas Brawija
Agency Problem	0.224	Brawijaya	Universitas Brawija
Independent Commissioners	0.047	awijaya	Universitas Brawija
Surplus Free Cash Flow	DRA.	laya	Universitas Brawija Universitas Brawija
Agency Problem*Independent			
Commissioners	-0.315	-2.061	0.040
Audit Committee Meeting	25 Pr.		o.42 ja
Frequencies	0.000	Y	niversitas Brawija
Surplus Free Cash Flow	201 16/	77	hiversitas Brawija
Agency Problem*Audit		3/	niversitas Brawija
Committee Meeting	7.75		niversitas Brawija
Frequencies	-0.009	-2.104	0.036

Source: Appendix 8

The results of the moderated regression equation are presented as follows.

EM = a + b1 SFCFAP + b2 ICO + b3 SFCFAP*ICO + b4 AUCO +

b5 SFCFAP*AUCO + e

EM = -0.094 + 0.224 SFCFAP + 0.047 ICO - 0.315 SFCFAP*ICO +

0.000 AUCO – 0.009 SFCFAP*AUCO + e

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Explanation:
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UniverSFCFAP wijay: Surplus Free Cash Flow Agency Problem ijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

EM : Earnings Management

Unive ICOs Brawijay: Independent Commissioners versitas Brawijaya

AUCO : Audit Committee Meeting Frequencies

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- 1. The constant value (a) of -0.094 indicates that without the effect of the SFCFAP, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas the EM value is -0.094. Brawijaya Universitas Brawijaya Universitas Brawijaya
- 2. The variable ICO has coefficient value at -0.315 and significant value at 0.040 indicates a negative significant effect of ICO as moderating variable on the Universitas Brawijaya Universitas diaya Universitas Brawijaya Universitas Brawijaya Universities relationship between SFCFAP on EM, meaning that any increase in ICO as itas Brawijaya Universitas Brawijaya Universities moderating variable, it will have an effect on weaken the relationship between SFCFAP on EM.
 - 3. The variable AUCO has coefficient value at -0.009 and significant value at 0.036 indicates a negative significant effect of AUCO as moderating variable on the relationship between SFCFAP on EM, meaning that any increase in AUCO as moderating variable, it will have an effect on weaken the relationship between SFCFAP on EM.

The coefficient of determination is used to calculate the influence or contribution of independent variables to the dependent variable. From the analysis (table 4.3), it was obtained the adjusted R (coefficient of determination) of 0.042. It means that 4.2% of the relationship between Earnings Management variable and Surplus Free Cash Flow Agency Problem will be affected by the moderating variables, namely Independent Commissioners and Audit Committee Meeting Frequencies. At the same time, the remaining 95.8% of the Earnings Management variable will be affected by other variables which are not discussed in this study.

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These classical assumptions must be tested to meet the use of linear regression. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

There are several types of classic regression assumption testing used by the researcher, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

unive such as the normality test, multicollinearity test, and heteroscedasticity test. The test

results that have been presented have met the requirements.

Universita 4.4.1 W Normality Test

Universities This test is conducted to determine whether the residual value is normally

spread or not. To test the normality assumption used the Kolmogorov-Smirnov

test. If the value is sig. (p-value) > 0.05, then H₀ is accepted, which means normality is met. The results of the normality test can be seen on Appendix 9. From the calculation results, the sig value is 0.068 or greater than 0.05; then the requirement is accepted, namely that the normality assumption is met.

Multicollinearity Test 4.4.2

The multicollinearity test was conducted to determine that there was no very strong relationship or a perfect linear relationship, or it could also be said that the independent variables were not interrelated. The method of testing is to compare the Tolerance value obtained from multiple regression calculations. If the tolerance

value < 0.1, then multicollinearity occurs. The multicollinearity test results can be

Universi seen in Table 4.4.

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Multicollinearity Test Results | ava

Widtheomicality	Test Result		valtes Duesvillesse
awijaya Research Variables ya Uni	Collinearit	xx Statiation	rsitas Brawijaya rsitas Brawijaya
awijaya Universitas Brawijaya Uni	Tolerance	T 7TT	rsitas Brawijaya
Surplus Free Cash Flow Agency	versitas Brav		rsitas Brawijaya
a Problem Iniversitas Brawijaya Uni	vers0.996 rav	vijay1.004nive	rsitas Brawijaya
Independent Commissioners	vers0.989 rav	1.011	rsitas Brawijaya
Audit Committee Meeting	versitas Brav		rsitas Brawijaya
Frequencies Maya Uni	0.993	1.007	rsitas Brawijaya rsitas Brawijaya
dwijaya vijiy 1. o	versitas brav	vijaya Uffive	risitas prawijaya

Source: Appendix 9

Universitas Brawijaya

Universit Based on Table 4.4, here are the test results of each independent variable: Brawijaya

- Tolerance for SFCFAP is 0.996
- 2. Tolerance for ICO is 0.989
- 3. Tolerance for AUCO is 0.993

The test results show that the overall tolerance value is > 0.1, so it can be concluded that there is no multicollinearity between the independent variables. The multicollinearity test can also be done by comparing the VIF (Variance Inflation

Factor) value with the number 10. If the VIF value > 10, then multicollinearity

occurs. Following are the test results for each independent variable: State Brawijaya

- VIF for SFCFAP is 1.004
- 3. VIF for AUCO is 1.007

From the test results, it can be concluded that there is no multicollinearity between

the independent variables. Thus, the assumption test for the absence of

multicollinearity can be fulfilled.

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awijaya awijaya awijaya awijaya universitas Brawijaya Universita 4.4.3 w Heteroscedasticity Test ava Universitas Brawijaya Universitas Brawijaya The heteroscedasticity test is used to determine whether there is an inequality Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya universi in the residual deviation value due to the size of the value of one of the independent Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya variables or there is a difference in the value of the variety with the increasing value Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya of the independent variable. To test the heteroscedasticity assumption, the Glejser Universitas Brawijaya Universitas iiaya Universitas Brawijaya Universitas Brawijaya test were used. The results of the heteroscedasticity test can be seen in Appendix 9. The results of the heteroscedasticity test using the Glejser test obtained a significance value of the SFCFAP variable of 0.562, the ICO variable of 0.111, and the AUCO variable of 0.549 so that the significance value of each independent variable was more than 0.05 (p> 0.05) meaning that there was no heteroscedasticity problem in the model so that the assumption of heteroscedasticity is met.

4.5 Hypothesis Test

Hypothesis testing in this study used moderated regression analysis. This analysis

was used to test whether there was an influence between the Earnings Management

variable explained by the Surplus Free Cash Flow Agency Problem variable with

Independent Commissioners and Audit Committee Meeting Frequencies moderation.

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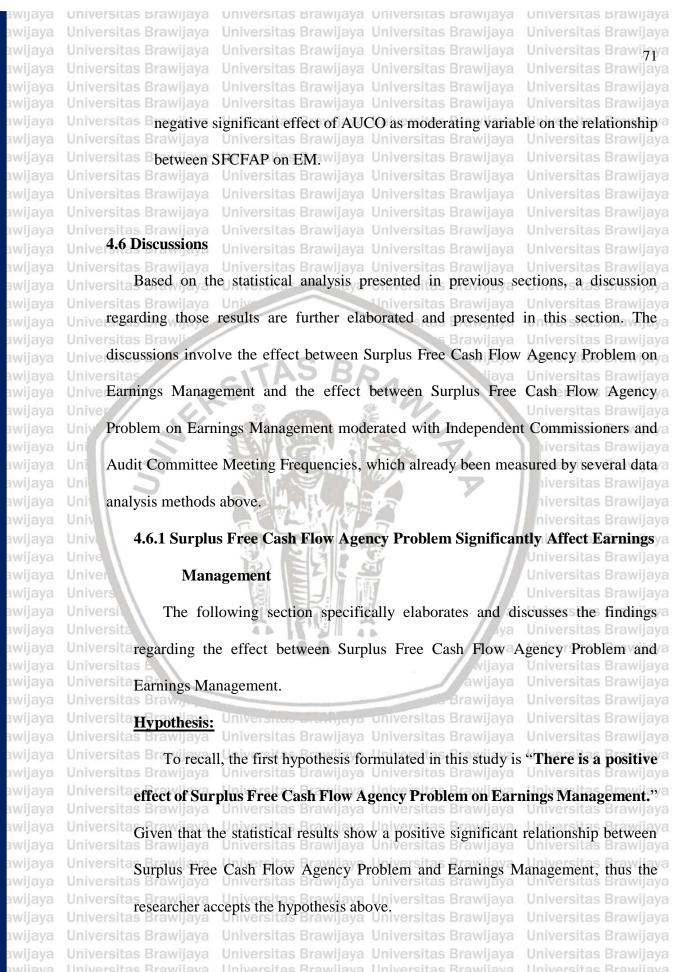
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Hypothesis Testing Results

Hypothesis		Statements	t	Explanation
jaya jaya jaya	Hinivers Univers	There is a positive effect of Surplus Free Cash Flow Agency Problem on Earnings Management		HI Accepted as Brawijaya
jaya jaya	Univers	Independent Commissioners weaken the positive effect of	Universita	is Brawijaya is Brawijaya
jaya	H2nivers	Surplus Free Cash Flow Agency Problem on Earnings	-2.061	H2 Accepted
jaya jaya	Univers Univers	Management. Itas Brawijaya Universitas Brawijaya Itas Brawijaya Itas Brawijaya		ns Brawijaya ns Brawijaya
jaya	Univers	Audit Committee Meeting Frequencies weaken the positive	Universita	as Brawijaya
jaya jaya	Univers H3 _{nivers}	effect of Surplus Free Cash Flow Agency Problem on	-2.104	H3 Accepted
jaya iava	Univers	Earnings Management.	Universita	as Brawijaya as Brawijaya

The results of the hypothesis test are described as follows:

- 1. The effect of SFCFAP on EM obtained a regression coefficient of 0.036 with a significance value of 0.022. These results indicate a significance value of less than 0.05 (sig <0.05). It is stated that there is a positive and significant effect between SFCFAP on EM.
- The effect of SFCFAP with ICO moderation on EM obtained a regression coefficient of -0.315 with a significance value of 0.040. These results indicate Universitias Ba significance value of more than 0.05 (sig> 0.05). It is stated that there is a a Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Enegative significant effect between of ICO as moderating variable on the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brelationship between SFCFAP on EM. ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya
- Universit 3. The effect of SFCFAP with AUCO moderation on EM obtained a regression Universities Recoefficient of -0.009 with a significance value of 0.036. These results indicate Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya a significance value of less than 0.05 (sig <0.05). It is stated that there is a Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya



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Universities B Ever since Jensen and Mecking (1976) explained the agency theory, they Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

stated that the self-interest motive of management could incur other problems in Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya the form of earnings manipulation that called earnings management. The company

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that has a high surplus of free cash flow, trigger, or tend to unwisely used by the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

manager in the form of investing in projects that has negative NPV. In the future, Universitas Brawijaya Universitas I diava Universitas Brawijaya Universitas Brawijaya

there is a huge possibility that the company will face a loss in their earnings Universitas Brawijay itas Brawijaya Universitas Brawijaya

regarding those past negative NPV investment projects. Therefore, most of the

time, management will use earnings management in order to conceal the results

from past negative NPV investment projects.

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Past studies by Nouri and Gilaninia (2017) and Chung et al. (2005) stated that the SFCF has a significant and positive effect on earnings management, which means companies with high SFCF use earnings management to camouflage the earnings impact of non-value-maximizing investments and other expenditures. The reason for this matter is that companies, which have SFCF, are those companies that, from one side, have surplus free cash and, on the other hand, have fewer growth opportunities.

Companies that have an SFCF and have low growth opportunities tend to face a problem that is called agency problems. Agency problems emerge because of the difference of interest between the insider and the outsider, both are likely to University maximize their own interest, and this problem is related to the firm's free cash flow usage. Thus, managers may engage in earnings management to show a better performance for the company, which will also cover up their unwise usage on the Universita firm's surplus free cash flow.wijaya Universitas Brawijaya Universitas Brawijaya

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Although there are still no past studies that discussed the effect of Surplus Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Free Cash Flow Agency Problem on Earnings Management. After combining the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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previous similar topic of past studies results and the agency theory as researcher's Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

references, the researcher believes and agrees that the results of this study, which Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

state that there is a significant positive influence between surplus free cash flow Universitas Brawijaya Universitas daya Universitas Brawijaya Universitas Brawijaya

agency problem and earnings management, also emerge because the company's itas Brawijaya Universitas Brawijaya

with high SFCF and low growth opportunities will cause the occurrence of the

agency problem. Managers tend to use the SFCF for negative NPV projects which

will encourage the management to practice earnings management in order to conceal the results from negative NPV projects.

4.6.2 Independent Commissioners Significantly Moderates Surplus Free

Cash Flow Agency Problem with Earnings Management

The following section specifically elaborates and discusses the findings regarding the effect of Independent Commissioners as the moderating variable on the relationship between Surplus Free Cash Flow Agency Problem towards Earnings Management.

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Hypothesis:

The second hypothesis formulated in this study is "Independent as Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Commissioners weaken the positive effect of Surplus Free Cash Flow Agency **Problem on Earnings Management.**" Given that the statistical results show a negative significant influence of Independent Commissioners moderating the University relationship between Surplus Free Cash Flow Agency Problem towards Earnings University Management, thus the researcher accepts the hypothesis above. Iversity Brawilava





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The existence of an independent commissioner is important because, in the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

practice of financial reporting, transactions that contain conflict of interest are Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University often found ignoring the interests of public shareholders (minority shareholders)

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and other stakeholders. The conflict of interest that rises is called agency problems.

The possibility that management has its own interests will lead to what is called earnings management (Luthan et al., 2016). To overcome this situation, the board Universitas Brawija University of commissioners is allowed to have access to company information. It is why Independent commissioners play an important role in monitoring the accounting process. Moreover, the independent commissioners could also decrease management's opportunities to hold certain information for their own interests (Pradipta, 2019).

> Past studies by Susanto et al. (2017) stated that independent commissioners could reduce earnings management problems arising from free cash flow. The reason being that they could oversee the opportunistic behavior of managers that arises from free cash flow problems. Opportunistic behavior in the form of earnings management.

There are still no past studies that discussed the effect of Independent Commissioners as moderating variable on the relationship between Surplus Free Cash Flow Agency Problem towards Earnings Management. After combining the previous similar topic of past studies results and the agency theory as researcher's references, the researcher believes and agrees that the results of this study, which there is an significant negative influence of independent commissioners as University moderating variable to the positive relationship between surplus free cash agency/a

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya problem on earnings management, it occur because the independent Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya commissioners with their independency should be able to work independently and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya optimally in overseeing the management's opportunistic behavior, which will be Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitable to reduce the negative impact that might occur because of surplus free cash Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universita flow agency problem, which is earnings management. Jaya Universitas Brawijaya Universitas Brawijaya Universitas iiaya Universitas Brawijaya Universitas Brawijaya

University 4.6.3 Audit Committee Meeting Frequencies Significantly Moderates tas Brawijaya Universitas Brawijaya

Surplus Free Cash Flow Agency Problem with Earnings Stas Brawijaya

Management

The following section specifically elaborates and discusses the findings of the effect of Audit Committee Meeting Frequencies as moderating variable on the relationship between Surplus Free Cash Flow Agency Problem on Earnings Management.

Hypothesis:

The third hypothesis formulated in this study is "Audit Committee Meeting

Frequencies weaken the positive effect of Surplus Free Cash Flow Agency

Problem on Earnings Management." Given that the statistical results show a negative significant influence of Audit Committee Meeting Frequencies in moderating the relationship between Surplus Free Cash Flow Agency Problem on tas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Earnings Management, thus the researcher accepts the hypothesis above.

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitas Brawi The audit committee meeting frequencies is considered as a factor that able University to encourage an effective corporate governance (Wang & Campbell, 2012). It is universita stated that the greater the number of audit committee meeting frequencies, the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University greater its ability to be more active in conducting more frequent evaluations which



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might will be able to monitoring the company and minimize any management practices (Kamarudin et al., 2012). Therefore, an audit committee activities Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya related to the frequencies of meetings is expected to be able to weaken the positive Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya association between surplus free cash flow agency problem and earnings Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya management, considering in the meeting the audit committee will review the diaya Universitas Brawijaya Universitas Brawijaya Universital accuracy of the financial reporting or discuss any significant issues that have been Universita communicated with management.

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> Past studies by Lin et al. (2006) found that audit committee meeting frequencies does reduce the extent of earnings management in the presence of free cash flow. The evidence shows that the greater the audit committee meeting frequencies, the greater its ability to be more active in conducting more frequent evaluations which might will be able to monitoring the company and minimize any management practices.

However, there is still no past studies that discussed the effect of the Audit Committee Meeting Frequencies as moderating variable on the relationship between Surplus Free Cash Flow Agency Problem towards Management. After combining the previous similar topic of past studies results and the agency theory as researcher's references, the researcher believes and tas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya agrees that the results of this study which state there is a significant negative Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya influence of audit committee meeting frequencies as moderating variable to the positive relationship of surplus free cash agency problem on earnings University management. It occurs because the more frequent meetings the audit committee University holds, the more effective the audit committee will be in supervising company

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managers in order to being able to detect any management opportunistic behavior. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universita In the other hand, it's also means that the more meetings that are held by the audit Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universita committee, the better audit committee in minimizing the existence of earnings Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

management practices carried out by company managers.

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CONCLUSIONS AND SUGGESTIONS

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5.1 Conclusions

This study was conducted to determine which independent variables have an effect Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya on Earnings Management. In particular, it tested whether earnings management is Universitas Brawijaya Universitas wijaya Universitas Brawijaya Universitas Brawijaya positively or negatively affected by SFCFAP, Independent Commissioners, and Audit

Committee Meeting Frequencies. The research sample were manufacturing companies

listed on the Indonesia Stock Exchange (IDX) in 2015-2019.

In addition, the independent variable used is Surplus Free Cash Flow Agency Problem (X_1) . The moderating variables used are Independent Commissioners (X_2) , and Audit Committee Meeting Frequencies (X₃), while the dependent variable used is Earnings Management (Y). After data collection, data processing through a series of tests, and analysis of test results, it can be concluded that:

- Based on the test results, it was found that Surplus Free Cash Flow Agency Problem (X₁) shows a positive significant effect on Earnings Management. It means that the higher the Surplus Free Cash Flow Agency Problem, the higher the Earnings Management.
- 2. Based on the test results, it is found that Independent Commissioners (X_2) show a negative significant effect in moderating the relationship between Surplus Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Free Cash Flow Agency Problem and Earnings Management. It means that the Independent Commissioners could significantly weaken the positive relationship between Surplus Free Cash Flow Agency Problem and Earnings Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya





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3. Based on the test results, it is found that the Audit Committee Meeting

Frequencies (X₃) shows a negative significant effect in moderating the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Management. It means that the Audit Committee Meeting Frequencies could Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

significantly weaken the positive relationship between Surplus Free Cash Flow Universitas Brawijaya Universitas Brawijaya

Universitas BAgency Problem and Earnings Management. Brawijaya Universitas Brawijaya

Unive 5.2 Limitations

The limitation in this study is that researcher did not consider the external factors that may influence the company's performance and value, such as macroeconomic factors. Macroeconomic factors consist of interest rates, inflation, and fiscal policy. The researcher cannot consider these macroeconomic factors because of the difference of period that can lead to differences in the level of each factor, such as different period makes the interest rate or inflation rate different. In addition, researchers cannot consider macroeconomic factors because there is not yet a calculation to consider macroeconomic factors into each variable used in this study.

5.3 Suggestions

Based on the above conclusions, some suggestions can be put forward, which are expected to benefit the company and other parties. The suggestions given include:

Universita1. Future researchers could increase the sample of the study that is used, not only

Universitas Busing the manufacturing companies' industry, but also combine more past

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universitas Brawijaya universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya 2. Future researchers should not only consider the recent time span or time frame Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya to justify the selection of the sample but also consider the likeness of events Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias B that occur in the selected time frame as it may affect the statistical results of the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brindvaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awiiava Universit 3. Future researchers are recommended to use or add other independent variables diaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitias Bor moderating variables that may affect earnings management, such as audit awijaya itas Brawijaya Universitas Brawijaya Universitas Bquality. awijaya awijaya awijaya Universit Given that, the independent variable and moderating variables in this study are awijaya awijaya considered by the researcher as variables that have an important influence on Earnings awijaya awijaya Management. Thus, the results of this study can be used as a reference for further awijaya awijaya researchers to develop this study by considering other variables outside the variables awijaya awijaya that have been included in this study. awijaya awijaya awijaya awijaya awiiava awijaya awijaya awijaya awijaya awijaya

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39	DPNS	Duta Pertiwi Nusantara Tbk. √	Universitas Brawijaya	<u>ν</u>
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wij ay 3	GDYR	Goodyear Indonesia Tbk. D	Universitas Brawijaya	D
wij ay 54	GGRM	Gudang Garam Tbk. √	Universitas Brawijaya	<u> </u>
55	GGRP	Gunung Raja Paksi Tbk.	Universitas Brawijaya	
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62	IGAR	Champion Pacific Indonesia Tbk.	Universitas Brawijaya	<u> </u>
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85	KBLI	KMI Wire & Cable Tbk. √	iversitas Stawijaya	
86	KBRI	Kertas Basuki Rachmat Indonesia Tbk. √		-
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113 PBRX Pan Brothers Tbk.	D Universitas Brawijaya	D
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117 POLY Asia Pacific Fibers Tbk.	D Universitas Dawija D	D
118 PRAS Prima Alloy Steel Universal Tbk.	Universitas Brawijava	√
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126 SAMF Saraswanti Anugerah Makmur Tbk.	Univarsitas Rrawijaya	V
127 SBAT Sejahtera Bintang Abadi Textile Tbk.	Universitas Brawijaya	
128 SCCO Supreme Cable Manufacturing & Commerce Tbk.	Universitas Brawijava	V
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awija 130 Uni SCPI as Merck Sharp Dohme Pharma Tbk.	V Universitas Brawijaya	
131 SIDO Industri Jamu dan Farmasi Sido Muncul Tbk.	Universitas Prawijay	√
132 SINI Singaraja Putra Tbk.	a Universitas Brawijaya	$\sqrt{}$
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141 SMSM Selamat Sempurna Tbk.	a Universitas Brawijaya	√
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159	TOYS	Sunindo Adipersada Tbk. $\sqrt{}$	iversitas Brawijaya	-
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163	3 TSPC	Tempo Scan Pacific Tbk. √	Universitas Rrawijay	√
164	4 UCID	Uni-Charm Indonesia Tbk. $\sqrt{}$	Universitas Brawijaya	
165	5 ULTJ	Ultra Jaya Milk Industry & Trading Company Tbk. √	1 1	√
166	5 UNIC	Unggul Indah Cahaya Tbk. √	Universitas Brawijaya	
a167	UniUNITas	Nusantara Inti Corpora Tbk.	Universitas Brawijay	√
a168	BUNUNVRIS	Unilever Indonesia Tbk.	Universitas Rawijay	
169	VOKS	Voksel Electric Tbk. √	Universitas Brawijaya	
170) WIIM	Brawijava Wismilak Inti Makmur Tbk. Prawijav	Universitas Prawijava	√
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awija		Universitas 533.799.000.000 640.695.000.000 - 106.896.000.000 ersitas Brawijaya
awija		Universitas 954.357.000.000 1.917.900.000.000 - 963.543.000.000 ersitas Brawijaya
awija		Universitas 179.126.382.068 363.708.428.317 - 184.582.046.249 ersitas Brawijaya
awija	aya	Universitas 557.339.581.996 544.164.330.634 13.175.251.362 ersitas Brawijaya
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awijaya	74.342.72	5.782 _{/ersit}	61.219.347	2.295 _{versitas}	13.123.37	8.487 _e rsitas	Brawijava
awijaya	Universitas 586.838.297	7.236 _{/ersiti}	6.606.782	2.082 _{/er} -sitas	80.231.51	5.154 _e rsitas	Brawijaya
awijaya	Universitas E45.825.70	7.894/ersita	2.010.760	0.208/ersitas	43.814.94	7.686 ersitas	Brawijaya
awijaya	Universitas B45.487.26	0.497	132.356.154	.811versitas		4.314ersitas	
awijaya	Universitas B52.671.48	0.479	12.092.574	.806 sitas	40.578.90	5.673 ersitas	Brawijaya
awijaya	Universita 1.241.944.000		1.984.532.000	0.000 -	742.588.00	0.000 ersitas	Brawijaya
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awijaya	Universitas 92.570.91	4.640	7.395.470).836	83.173.44	3.004 ersitas	Brawijaya
awijaya	Universita 5.206.867.000	0.000	4.653.375.000	0.000	553.492.00	0.000 ersitas	Brawijaya
awijaya	Universitas 112.242.865		6.591.999	9.142 -	105.650.86	6.528 ersitas	Brawijaya
awijaya	6.350.788.000	0.000	5.935.829.000	0.000	414.959.00	0.000 ersitas	Brawijaya
awijaya	Universitas 179.025.67	6.787	104.743.680	0.332 ersitas	74.281.99	6.455 ersitas	Brawijaya
awijaya	Université 2.552.706.945	5.624	2.770.775.949	.459 ersitas	218 060 00	2 925 ersitas	Brawijaya
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av	vijaya	Universitas	7.358.134	.969 ersita	17.330.56	5.028	9.972.43	0.059 ersitas Brawijaya
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av	vijaya	Universitas	651.298.000	Universite	542.647.000	- Universita	108.651.00	Universitas Rrawijava
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av	vijaya	Universitas	82.232.722		224.285.334	4.887/er-ita		2.618 ersitas Brawijaya
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av	vijaya	Universitas	36.477.174.	515	12.639.503	3.604 -		8.119ersitas Brawijaya
	vijaya	Universitas	63.193.899	.099	118.453.889	9.096 -	55.259.98	9.997 ersitas Brawijaya
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	vijaya	Universitas	540.378.145	.887	389.088.123	3.975	151.290.02	1.912 _e rsitas Brawijaya
	vijaya	Universitas	51.142.850	.919	140.978.069	9.476 -	89.835.21	8.557/ersitas Brawijaya
av	vijaya	Universitas	506.523	.774	5.360.49	9.842 -	4.853.97	6.068 ersitas Brawijaya
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	vijaya	Universitas	110.686.883	366	133.733.783	3.003 ersita	23.046.89	9.637 ersitas Brawijaya
	vijaya	Universitas	253.995.332	.656 -	133.493.16	8.560 ersita	120.502.16	4.096 ersitas Brawijaya
	vijaya	Universitas	1.112.037	.917	14.880.76	8.388 -	13.768.73	0 471 ersitas Brawijaya
	vijaya	Universitas	173 591	Universita	30.736.659	Universita	30.563.06	2 640 Prawijaya
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awijaya 	3.615.390.000.000	3.400.173.000.000	215.217.000.000 ersitas Brawijaya
awijaya 	149.902.584.428	115.559.223.532	34.343.360.896
awijaya	21.414.219.012 -	60.367.965.848 -	38.953.746.836
awijaya	60.649.376.118	110.401.909.570 -	49.752.533.452
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awijaya	20 160 271 175	11.868.109.959	8.301.261.216 sitas Brawijaya
awijaya	omitoroita biattijaja omitoroita	3.530.772.000.000 -	1.647.423.000.000
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awijaya	Universitas 53.034.379.616	258.033.801.758 -	Decided to the Committee of the Committe
awijaya			534.495.381.164 Stay Brawllaya
awijaya	109.209.072.901	45.225.708.260 -	24.185.691.079 rsitas Brawijaya
awijaya	- 10.370.744.403 -	5.608.946.676 -	
awijaya	177.348.436.000	312.988.282.000 -	155.059.840.000
awijaya	Univer86.023.000.000	184.178.000.000 -	98.155.000.000 rsitas Brawijava
awijaya	7.294.562.216	8.147.131.727	852.569.511 _e rsitas Brawijaya
awijaya	81.329.000.000	271.140.000.000 -	189.811.000.000 ersitas Brawijaya
awijaya	214.147.120.992	453.147.999.966 -	239.000.878.974 ersitas Brawijaya
awijaya	6.586.220.485	1.955.633.127	4.630.587.358 arsitas Brawijaya
awijaya	128.863.892.653	198.145.077.505 -	69.281.184.852 ersitas Brawijaya
awijaya	219.199.794.000	272.538.844.000 -	53.339.050.000 rsitas Brawijaya
awijaya	10.800.102.000.000	1.174.403.000.000 -	374.301.000.000 sitas Brawllaya
awijaya	13.932.030.000.000	7.145.967.000.000 -	3.213.937.000.000 ersitas Brawijaya
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awijaya	Universitas 534.040.428.097	17.379.083.127	516.661.344.970
awijaya awijaya	Universita 2.513.242.403.090	2.502.968.822.391	10.273.580.699 sitas Brawiiaya
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awijaya	27.044.907.000	48.742.952.000 -	20.897.985.000 1.795.274.270 rsitas Brawijaya
awijaya	23.049.137.049	24.834.511.428 -	1.785.374.379
awijaya	Universitas 145.335.537.132 -	6.642.849.130	138.692.688.002
awijaya	Universitas B51.117.350.525	93.837.385.857 -	42.720.035.332
awijaya	Universitas B65.180.072.693 _{Versita}	615.124.627.663	680.304.700.356 ersitas Brawijaya
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awijaya	Universitas 510.711.733.403 1.126.052.429.214 - 615.340.695.811 ersitas Brawijaya
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awijaya	- 03.043.000.394 94.439.900.332 - 1/0.303.709.140
awijaya	41.484.677.098 28.509.352.358 12.975.324.740 15.890.439.000 1.853.834.642.000 1.837.944.203.000
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awijaya	208.249.125.401 169.486.566.476 38.762.558.925 Sitas Brawijaya
awijaya	807.689.000.000 836.914.000.000 - 29.225.000.000 sitas Brawijaya
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awijaya	595.154.912.874 889.775.270.261 - 294.620.357.387
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awijaya awijaya	Universitäs B. 1.951.111.404 75.582.953.903 87-1125 B. 73.631.842.499 8148 Brawllaya
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2.227.042.590.000	0,0135	0,00000000000045	niversita _{0,0066} vijaya	0,7609 0,0067	-0,0854
2.142.894.276.216	-0,1330	0,00000000000047	0,0250 laya	0,8500 0,0614	-0,0913
3.217.113.857.871	0,5272	0,00000000000031	0,0452	0,2267 0,0248	-0,0245
3.946.125.000.000	-0,0065	0,00000000000025	-0,0035	0,4619 0,1087	-0,0436
273.126.657.794	-0,0856	0,0000000000366	-0,0567	0,8062 0,0314	-0,0958
1.259.938.133.543	-0,0299	0,00000000000079	-0,2722 _{/ijaya}	0,7023 Bra 0,1830	-0,0635
awijaya959.445.449.616	0,0188	0,0000000000104	-0,0332 tjaya	Uni 0,2600 Bra -1,7295	-0,1655
wijaya174.088.741.855	0,0247	0,0000000000574	-0,1046	Uni 0,0756 Bra 0,0412	-0,0183
20.841.795.000.000	0,0069	0,0000000000005	0,0571	Uni 0,5446 Bra 0,0721	-0,0557
411.736.182.748	-0,1713	0,0000000000243	0,0179	0,2346 0,1052	-0,0241
1.357.932.144.522	-0,0696	0,00000000000074	-0,2131	0,5242 -0,0115	-0,0591
350.619.526.939	-0,0778	0,00000000000285	-0,1073	0,1896 0,1437	-0,0159
893.663.745.450	0,0919	0,0000000000112	0,2690	0,2596 0,0169	-0,0328
147.755.842.523	-0,0552	0,00000000000677	0,1378	0,3281 0,0652	-0,0493
28.884.635.000.000	-0,0274	0,00000000000003	-0,0836	0,4782 0,1915	-0,0377
15.758.959.000.000	-0,0335	0,00000000000006	0,0453	Uni 0,4321 ₅ Bra 0,0228	-0,0469
awijaya960.332.553.887	-0,0364	0,00000000000104	0,0542	Uni 0,4197s Bra 0,0388	-0,0468
awija 2.268.246.639.101	-0,0988	0,00000000000044	-0,0873	Uni 0,6187s Bra 0,0332	-0,0666
141.034.984.628	-0,0716	0,00000000000709	-0,5125	0,2916 87 0,0568	-0,0407
3.530.183.618.000	-0,0111	0,00000000000028	0,0846	0,5161 878 -0,0219	-0,0607
502.990.000.000	0,0202	0,00000000000199	0,1518	0,5654 0,0476	-0,0655
133.831.888.816	0,1596	0,00000000000747	-0,0759	0,3669 -0,0082	-0,0590
2.476.982.000.000	0,0200	0,00000000000040	-0,1002	0,6913 0,0079	-0,0765
1.284.150.037.341	-0,0516	0,00000000000078	iiversita-0,1187	0,1721 0,0263	-0,0179
awijaya370.186.989.798	wij 0,0345 nive	0,00000000000270	niversita0,1052vijaya	Uni 0,4297s Bra 0,0793	-0,0493
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58.234.278.000.000	awij 0,0559nive	0,000000000000002	niversita _{0,0903} vijaya	Uni 0,3453 Bra 0,0839	-0,0328
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300.450.150.000	0,0800	0,0000000000333	0,0326	0,6019 0,6907	-0,0218
25.029.488.000.000	-0,0184	0,00000000000004	1,2613	0,2619 0,0958	-0,0334
623.002.100.394	-0,0156	0,00000000000161	-0,0197	0,2332 0,0020	-0,0296
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3	17.159.466.000.000	0,0030	0,00000000000006	0,1361	0,4378 0,0481	-0,0115
	1.177.093.668.866	-0,0380	0,00000000000085	-1,2654	0,3437 87 0,0060	-0,0213
1	2.124.390.696.519	-0,1350	0,00000000000047	0,0323	0,6221 -0,0979	-0,0712
	133.782.751.041	-0,0113	0,0000000000747	-0,1265	0,4627 0,0050	0,0476
	3.962.068.064.000	0,0094	0,00000000000025	0,1214	0,4939 -0,0171	-0,0361
	653.224.000.000	-0,0967	0,0000000000153	0,2844	0,5728 0,0472	-0,0045
	139.809.135.385	-0,0319	0,00000000000715	-0,0143	0,3338 0,1818	0,1153
,	3.265.953.000.000	-0,0768	0,00000000000031	0,1850	0,5425 0,0500	-0,0150
	1.485.826.210.015	0,0484	0,00000000000067	0,4067/ijaya	Uni 0,1454s Bra 0,0718	0,0250
9	328.807.494.765	-0,0487	0,00000000000304	0,0610/ijaya	Uni 0,5529 Bra 0,0916	0,0265
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	1.376.278.237.000	-0,0308	0,00000000000073	0,0503	0,2940 0,0680	0,0116
	63.505.413.000.000	-0,0055	0,00000000000002	0,0843	0,3228 0,1026	0,0145
	38.010.724.000.000	-0,0407	0,00000000000003	0,1557	0,1814 0,2436	0,0737
	350.200.130.000	0,0572	0,00000000000286	0,4845	0,5078 0,1211	0,0408
Y	26.560.624.000.000	-0,0358	0,00000000000004	rsita0,0996	0,2679 0,1047	0,0193
	wijaya648.899.377.240	wij 0,0028niv	0,0000000000154	rsita-0,0338/ijaya	Uni 0,2262 ₅ Bra-0,0122	-0,0037
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357.981.312.200	-0,0224	0,00000000000279	iversita _{0,1378} /ijaya	0,2656 Bra 0,0201	0,019
99.558.394.760	0,0050	0,00000000001004	-0,4013	0,1142 -0,0287	
918.617.353.270	-0,0377	0,00000000000109	0,1736	0,4643 0,0940	0,013
24.860.957.839.497	0,0044	0,000000000000000	-0,2855	0,1555 0,0003	-0,012
1.358.464.081.000	-0,0379	0,00000000000004	0,2300	0,3009 0,1326	0,034
300.617.691.700	-0,0089	0,00000000000074	-0,0146	0,0733 0,0297	0,040
1.551.799.840.976	-0,0394	0,00000000000000	0,0076	0,3713 0,0624	0,003
1.944.326.000.000	-0,1697	0,0000000000000000000000000000000000000	-0,3071	0,4983 -0,1828	
1.531.742.052.164	-0,0177	0,00000000000051	versit -0,0694 ava	0,5856 0,0311	-0,022
1.198.193.867.892	-0,0578	0,00000000000000	0,0232	Un 0,2775 Br 0,0096	-0,006
2.220.108.000.000	0,4763	0,0000000000000	-0,0178 Jaya	0,3249 0,1978	0,051
7.125.800.277.000	-0,0317	0,00000000000043	0,0163 Jaya	0,8502 -0,0202	
1.180.228.072.164	-0,0317	0,0000000000014	0,0069	0,7583 -0,0209	•
2.246.770.166.899	-0,0058	0,00000000000000	0,1511	0,3719 -0,1410	
17.321.565.000.000	-0,0038	0,00000000000045	-0,0238	0,9588 0,0089	-0,06
2.185.464.365.772	-0,0732	0,00000000000000	0,1783	0,0101 -0,0197	
574.073.314.000	-0,0848	0,00000000000040	-0,0477	0,3833 0,0216	-0,00
763.168.027.178	0,0352	0,00000000000174	0,0110	0,3167 Bra -0,0011	
3.357.359.499.954	-0,0612	0,00000000000031	-0,0602	0,6033 0,0077	-0,003
4.332.409.010.247	-0,5540	0,000000000000030	-0,6853	0,4461 0,0243	-0,03
4.456.097.502.805	0,0455	0,00000000000023	0,1627	0,4980 0,0368	-0,022
279.189.768.587	-0,0992	0,000000000000022	-0,0037	0,5502 -0,0353	
495.390.442.927	-0,0992	0,000000000000338	0,7675	6,1799 0,0006	-0,012
574.346.433.075	0,0210	0,0000000000000202		Universitas Brawilava	
3.236.224.076.311		11/4	0,0628	0,2315 0,0585	0,023
793.093.512.600	0,0227	0,00000000000031	0,2448	0,3111 0,0548	0,002
2.100.853.000.000	-0,0139	A03 100	-0,0690 ava	0,3299 0,0049	-0,008
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497.090.038.108	-0,0444	0,0000000000000000000000000000000000000	-0,1604 aya 0,1911	0,1302 0,0022	0,011
1.536.244.634.556	-0,0223	0,00000000000065	versita _{0,1052} vijaya	0,1918 0,0002	-0,004
2.796.111.000.000	0,0064	mention Describer Her	the state of the s	0,3760 0,1464	0,029
9.283.775.000.000	0,0247	0,00000000000011	0,2707	0,5895 0,0159	-0,03
2.082.096.848.703	-0,0491	0,00000000000048	-0,0512	0,4492 0,2492	0,060
6.284.729.099.203	0,0086	0,00000000000016	0,1374	0,2875 0,0804	0,011
1.342.700.045.391	-0,0227	0,00000000000074	-0,1071	0,2461 0,0968	0,024
460.539.382.206	-0,0636	0,00000000000217	iversita0,0240/ijaya	0,6694 0,0009	-0,022
1.038.321.916.000	-0,0051	0,000000000000096	iversita-0,7593/ijaya	Un 0,0927 Br 0,1603	0,054
2.553.928.346.219	-0,0563			Un 0,5330 Bra 0,0008	-0,03
1.773.144.328.632	-0,1026	0,00000000000056		0,1819 0,0649	0,016
721.884.167.684	-0,0804	0,0000000000139	Versita-0,1031	0,4410 -0,0161	•
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	33.708.564.241		and the Property of the same of	Internation Descriptions	0,2776 0,0048	-0,0102
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14/11ay/a	19.640.858.718	-0,0843	0,000000000003	Iniversitas Brawliava	0,6828 0,0911	0,1749
wiiava	53.030.503.531	0,1619	0,0000000000004	Iniversitas Brawijava	0,2995 -0,0421	0,0891
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iwijaya	82.461.777.452	0,9735	0,0000000000026	miversitas brawijaya	0,6851 0,0626	0,1995
wijay1.5	43.216.299.146	-0,0825	0,0000000000006	5 _{niversita} 0,1018 _{vijaya}	0,5402 0,0554	0,1456
wijaya ⁹	82.626.956.424	0,0285	0,00000000000010	2 _{niversita} 0,4195 _{//jaya}	0,2044 0,0368	0,0804
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wij 24.2	04.994.000.000 raw	0,0347	0,00000000000000	4niversita0,4582vijaya	Uni 0,4616s Bra 0,0904	0,1386
wijaya 7	02.508.630.708 aw	0,0433	0,0000000000014	2 sita0,0940/ijaya	Uni 0,5194 Bra 0,3855	0,1815
ıwijaya9	68.234.349.565	-0,0294	0,0000000000010	3 0,4816 ⁽¹⁾ aya	0,8300 Bra-0,0031	0,2286
wijaya ₄	39.465.673.296	-0,0364	0,0000000000022	8 -0,0653 ^{aya}	0,2413 0,1439	0,0931
1.3	39.032.413.455	-0,0109	0,000000000007	5 -0,1781	0,1695 0,0267	0,0437
wijaya wijaya	69.351.381.344	0,0417	0,000000000037	1 0,2652	0,5046 0,2982	0,2001
30.1	50.580.000.000	-0,0313	0,0000000000000	3 -0,0307	0,4968 0,1317	0,1310
19.2	51.026.000.000	0,0077	0,0000000000000	<u> </u>	0,4510 0,1405	0,0745
	.42.273.020.550	0,0039	0,000000000008		0,3998 Bra 0,0308	0,1773
2 /	59.669.927.962	-0,0598	0,000000000005	/ / /	0,6591s Brav-0,1480	0,1465
	62.828.169.250	-0,0130	0,0000000000061		0,3430 0,0332	0,1665
	326.862.840.000	-0,0586	0,0000000000002		0,5328 0,0710	0,1392
	67.479.000.000	-0,0633	0,0000000000013		0,6231 0,0667	0,1662
without	39.809.135.385	-0,0267	0,00000000000071	4	0,3229 -0,0292	0,1534
wiiava	31.807.000.000	-0,0097	0,0000000000003	7	0,6357 0,0126	0,1556
WHAVA	25.964.152.418	-0,0733	0,0000000000000	- ///	0,1489 0,1781	0,0645
Wijaya	99.336.626.636	0,0772	0,0000000000000	/ //a	0,6170 0,0498	0,1840
ivvijaya	63.288.593.970	-0,0606	0,0000000000023	/ / / / / / / / / / / / / / / / / / /	1,0747 0,0359	0,2889
ivijaya	31.265.558.000	-0,0538	0,00000000000021	/ / Julian	omitoiomas biamijaya	0,2883
3 - 7	51.634.000.000	-0,0080	0,0000000000000	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0,2586 0,0884 0,3401 0,0987	0,0804
	08.277.000.000	-0,0681	0,0000000000000		0,1621 0,2904	0,0338
	70.245.134.305	-0,0881	0,0000000000000		0,4626 0,0760	
CVECTIVE	Halvoreltae Prau	dienzes Herin	melton Demullous I	Introvettor Deputitoro	Habarettae Desultara	0,1397
wiiava	01.948.000.000	-0,0569	0,0000000000000	Injugraitae Brawijava	0,2810 0,1150	0,0805
wilava	09.959.168.088	-0,0863	0,000000000014	Jniversitas Brawilava	0,2128 0,0086	0,0674
IVVIIdyd	74.515.000.000	-0,0179	0,0000000000000	<u> Iniversitas Brawijaya</u>	0,4806 0,0564	0,1215
ivrijaya	84.504.424.358	-0,0363	0,0000000000003	mineralias prawijaya	0,3797 0,0640	0,0964
	36.009.210.657	0,0352	0,0000000000000	ornio brancia	0,4331 Bra 0,1417	0,1171
3 3	55.000.000.000 raw	-0,0025	ver 0,0000000000000		Uni 0,1848s Bra 0,0669	0,0546
	12.274.000.000 av	0,0040	0,0000000000000		Uni 0,2414 Bra 0,0354	0,0639
	04.742.917.000	0,0026	0,0000000000012		Uni 0,2721 Bra 0,0491	0,0818
	87.981.312.196	-0,0152	0,0000000000025	Introvoltes Drewiters	0,3151 0,0081	0,1044
wijaya	92.041.274.561	0,0312	0,0000000000108		0,1194 0,1970	0,1482
wijaya	Universitas Braw	2 2		J niversitas Brawijaya Jniversitas Brawijaya	Universitas Brawijaya Universitas Brawijaya	
awijaya	Universitas Braw			Jniversitas Brawijaya	Universitas Brawijaya	
	11 1 11 11	Davis Date		Indicate the Description	Halaman Barania	

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1.206.089.567.283	vij 0,0017niv	0,00000000000083	ersita _{0,0013} /ijaya	Uni 0,5076 Bra 0,0946	0,1394
25.633.342.258.679	0,1257	0,000000000000004	ersita _{0,0125} /ijaya	0,1810 Bra -0,0003	0,0431
1.587.210.576.000	0,0540	0,00000000000063	0,0934	0,3576 0,0689	0,1028
350.617.691.606	-0,1110	0,00000000000285	0,0845	0,2675 0,0310	0,1003
1.871.422.416.044	0,1394	0,00000000000053	0,2339	0,5578 0,1069	0,1592
1.619.757.000.000	0,6674	0,000000000000062	0,1378	1,4632 -0,1031	0,3516
1.596.466.547.662	-0,0116	0,000000000000063	-0,0167	0,5408 -0,0199	0,1331
1.288.683.925.066	-0,1539	0,00000000000078	0,2863	0,2508 0,0097	0,0808
2.254.740.000.000	0,0520	0,0000000000044	ers 0,1852	0,3180 0,1942	0,1077
7.723.578.677.000	-0,0254	0,00000000000013	ersita 0,0368 /ijaya	Un 0,5048 Bra 0,0017	0,1237
wija 1.165.093.632.823	-0,0588	0,00000000000086	vsita0,0206/ijaya	Uni 0,7695 Bra-0,0239	0,1914
Wija 2.567.211.000.000	-0,1594	0,00000000000039	-0,0094 ^{/ij} aya	Uni 0,3567 Bra 0,0058	0,0895
19.763.133.000.000	-0,0798	0,00000000000005	-0,0089 laya	0,8096 -0,0145	0,1922
2.158.852.415.950	-0,0183	0,00000000000046	0,0613	0,0104 0,0373	0,0136
717.149.704.000	-0,0951	0,00000000000139	0,0495	0,2953 0,0169	0,0889
815.997.477.795	-0,0143	0,00000000000123	-0,0636	0,3109 0,0339	0,0879
3.290.596.332.518	-0,0581	0,0000000000000000000000000000000000000	0,0239	0,6054 0,0101	0,1499
13.734.267.485.212	-0,1029	0,00000000000007	0,1026	0,2293 0,0425	0,0640
4.663.078.318.968	-0,0463	0,000000000000021	0,2796	0,5746 Bra 0,0399	0,1551
Wilaya280.257.664.992	-0,1485	0,00000000000357	-0,0371	0,5201 Bra -0,0360	0,1564
4.879.715.095.300	-0,0417	0,0000000000000000000000000000000000000	0,0121	0,6225 Bra-0,0171	0,1497
639.701.164.511	-0,0503	0,00000000000156	-0,1436	0,1979 0,0463	0,0624
4.612.562.541.064	0,0708	0,00000000000022	0,0289	0,3659 0,0446	0,0954
810.364.824.722	-0,0592	0,0000000000123	0,0155	0,3235 0,0083	0,0917
2.275.038.000.000	-0,0042	0,0000000000044	0,0233	0,5996 0,3913	0,1881
483.037.173.864	-0,0241	0,00000000000207	0,0093	0,1301 -0,0112	0,0519
1.668.210.094.478	0,0585	0,00000000000000	0,1040	0,1832 0,0758	0,0619
2.987.614.000.000	-0,0358	0,0000000000033	-0,0157/ijaya	Uni 0,4067 Bra 0,1522	0,1153
12.596.824.000.000	-0,0765	0,00000000000008	0,1581/ijaya	Uni 0,4916 Bra 0,0443	0,1293
2.185.101.038.101	-0,0845	0,00000000000046	0,0581 Jaya	Uni 0,4415 Bra 0,0686	0,1196
6.585.807.349.438	0,0020	0,0000000000015	ersita _{0,0348} /ljaya	0,3013 0,0734	0,0824
1.353.634.132.275	-0,1138	0,00000000000074	-0,1482	0,2311 0,0867	0,0656
432.913.180.371	-0,0075	0,00000000000231	-0,0098	0,6645 0,0020	0,1827
1.197.796.650.000	-0,0521	0,00000000000083	0,0244	0,0751 0,1898	0,0467
2.477.272.502.538	-0,0834	0,00000000000040	0,1159	0,5001 0,0204	0,1306
2.449.935.491.586	0,0814	0,00000000000041	ersita 0,3502 /ijaya	0,6887 0,0848	0,1918
wijaya649.654.335.962 rav	-0,0758	0,0000000000154	ersita-0,1152/ijaya	Uni 0,4513 Bra-0,0260	0,1166
wijaya690.187.353.961rav	vij-0,1133	0,0000000000145	ersita0,0317vijaya	Uni 0,4209 Bra 0,0008	0,1171
wija 1.381.633.321.120	vij-0,1400 iv	0,00000000000072	ersitao,0009/ijaya	Uni 0,3527 Bra -0,0114	0,0907
2.745.325.833.000	0,0329	0,0000000000036	ersita _{0,1083} /ljaya	0,6120 0,0045	-0,0079
4.559.573.709.411	-0,0350	0,00000000000022	ersita _{0,0473} /ijaya	0,4874 0,0405	-0,0074
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2.376.281.796.928	0,1652	/er0,000000000000042 live	rsita <mark>0,4310</mark> vijaya	Univ _{0,2711} s Brav _{0,0089}	0,0160
6.267.816.000.000	-0,0249	0,0000000000016 We	rsita _{0,0855} vijaya	0,9478 873 -0,0019	-0,0181
398.698.779.619	-0,0218	0,00000000000251	0,1183 Jaya	0,7353 0,7616	0,0207
1.601.346.561.573	-0,1236	0,00000000000062	0,1673	0,4968 0,0715	0,0008
946.448.936.464	-0,0902	0,00000000000106	0,0383	0,2073 -0,0272	0,0004
183.501.650.442	0,0161	0,0000000000545	0,1946	0,0547 0,0511	0,0321
24.532.331.000.000	-0,0178	0,00000000000004	rsita0,1715	0,4803 0,0891	-0,0004
796.767.646.172	0,0165	0,0000000000126	rsita0,1047 _{wijaya}	Uni 0,4663 Bra 0,0961	0,0018
1.286.954.720.465 a	-0,0623	/er 0,00000000000078 ive	rsita0,2542vijaya	Uni 0,7216 Bra 0,0021	-0,0018
ijaya513.022.591.574rav	0,0854	0,0000000000195 ive	rsita0,0012vijaya	Uni 0,2610 Bra 0,1264	0,0055
1.213.916.545.120	-0,0716	0,00000000000082	sita0,0502vijaya	Uni 0,1874 Bra 0,0263	0,0021
303.788.390.330	0,1336	0,00000000000329	0,2952 vijaya	Uni 0,5758 Bra 0,0606	0,0158
28.863.676.000.000	-0,0257	0,00000000000003	0,0057 Jaya	0,5071 0,0661	-0,0099
19.959.548.000.000	0,0297	0,00000000000005	0,2129	0,4183 0,0399	0,0017
1.328.291.727.616	-0,0142	0,00000000000075	0,1019	0,4030 0,0473	-0,0003
1.767.603.505.697	-0,0518	0,0000000000057	0,0165	0,6399 -0,0547	-0,0139
161.163.426.840	0,0127	0,00000000000620	0,0902	0,3323 0,0829	0,0244
4.072.245.477.000	-0,0179	0,00000000000025	0,3622	0,5139 Bra 0,0096	0,0066
jaya840.236.000.000	-0,1044	0,0000000000119	-0,0002	0,5323 Bra 0,0438	-0,0067
149.420.009.884	0,0175	0,0000000000669	-0,1801	0,2881 Bra 0,0162	0,0123
2.939.456.000.000	0,0081	0,0000000000034	-0,0117	0,6367 0,0121	-0,0142
1.392.636.444.501	-0,1342	0,00000000000072	-0,4501	0,1436 0,0893	-0,0199
476.577.841.605	0,0143	0,00000000000210	-0,0158	0,5393 0,1303	-0,0013
660.917.775.322	-0,1034	0,0000000000151	0,2803	0,9344 0,0604	-0,0009
1.640.886.147.000	0,1077	0,00000000000061	0,0261	0,2406 0,0881	0,0006
66.759.930.000.000	-0,0488	0,00000000000001	0,1935	0,3409 0,1115	0,0045
43.141.063.000.000	-0,1522	0,00000000000002	0,1843	0,1689 0,2679	0,0129
576.963.542.579	0,1476	0,0000000000173	0,3727/ijaya	Uni 0,4593 Bra 0,0620	0,0161
31.619.514.000.000	0,0175	0,0000000000003	0,0943vijaya	Uni 0,3397 Bra 0,1027	-0,0005
780.669.761.787	-0,1353	0,0000000000128	-0,0731 Jaya	0,1721 Bra -0,0435	-0,0037
88.400.877.000.000	0,0047	0,000000000000001	rsita _{0,0452} vijaya	0,4908 0,0522	-0,0081
3.237.595.219.274	0,0229	0,00000000000031	0,0938 Jaya	0,4397 0,0577	-0,0031
16.616.239.416.335	-0,0131	0,00000000000006	0,0307	0,3763 0,1346	-0,0034
295.830.000.000.000	0,0039	0,0000000000000	0,0856	0,1952 0,0657	0,0014
14.762.309.000.000	0,0047	0,00000000000007	0,1239	0,2370 0,0304	0,0015
855.691.231.000	0,0416	0,0000000000117	rsita0,0290 /ijava	0,2805 0,0568	0,0011
iava465.965.155.745 rav	-0,0546	er 0,00000000000215 ive	rsita0,2388/ijaya	Uni 0,3471s Bra 0,0231	0,0128
jaya 89.327.328.853 rav	3 7 7				0,0433
1.188.798.795.362		0,0000000000084	rsita0,0995vijaya		-0,0020
31.440.443.615.533	0,0999	0,0000000000000	rsita _{0,0114} vijaya	0,2252 870,0640	-0,0029
1.927.985.352.000	0,0452	0,0000000000052	rsita _{0,5101} vijaya	0,3054 0,0824	0,0221

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1.652.905.985.730 av	-0,1020	0,00000000000000	iversita0,0991vijaya	0,4838	Bra\0,0961	0,1878
901.181.796.270	0,0857	0,00000000000111	iversita _{-0,1851} /ijaya	0,2122	Bray-0,1141	0,0493
217.362.960.011	-0,1102	0,00000000000460	iversita _{0,0060} vijaya	0,0407	0,1237	0,3052
27.645.118.000.000	0,0078	0,00000000000004	0,1642	0,4925	0,1567	0,1872
853.267.454.400	0,0402	0,00000000000117	0,0238	0,5470	0,0768	0,2188
1.351.861.756.994	-0,0288	0,00000000000074	0,1907	0,7864	-0,0494	0,2196
570.197.810.698	-0,0873	0,0000000000175	iversita-0,0033	0,2583	0,0742	0,1810
1.400.683.598.096	-0,0227	0,00000000000071	iversita0,1690	Uni 0,1587	Bra 0,0375	0,1048
awijaya391.362.697.956 av	vij 0,0212n	ver 0,000000000000256	iversita-0,0344/ijaya	Uni 0,4532	Brav0,1299	0,2864
awij 27.788.562.000.000 rav	vij-0,0593	0,00000000000004	iversita0,0269vijaya	Univ0,5067s	Bra 0,0448	0,1364
wij 23.038.028.000.000 av	·ij-0,0011	0,00000000000004	vsita0,1065vijaya	Uni 0,4578	Brav0,0966	0,1522
1.391.416.464.512	-0,1473	0,00000000000072	-0,0616 ^{/ljaya}	0,4228	Brav0,0555	0,1499
1.704.424.579.208	-0,3136	0,00000000000059	0,0187 Jaya	0,4645	-0,0584	0,1182
160.027.280.153	-0,1511	0,00000000000625	-0,4103	0,3228	0,0274	0,3842
4.335.844.455.000	-0,0313	0,00000000000023	0,1376	0,5268	0,0634	0,1690
881.275.000.000	-0,1114	0,0000000000113	0,0293	0,4601	0,0716	0,1956
wijaya154.088.747.766	0,0055	0,00000000000649	0,0507	0,2612	Bra 0,0206	0,4247
awija 3.392.980.000.000	-0,0559	0,00000000000029	0,1250	0,5332	Bra 0,0166	0,1556
wija 1.168.956.042.706	-0,2045	0,00000000000086	-0,4842	0,1671	Bra 0,0721	0,0647
wijaya491.382.035.136	0,0094	0,00000000000204	0,0688	0,5137	Bra 0,0318	0,2459
833.933.861.594	-0,0831	0,0000000000120	0,2686	1,1866	Bra 0,0510	0,3800
1.682.821.739.000	-0,0317	0,0000000000059	0,0717	0,2335	Bra 0,1111	0,1330
69.097.219.000.000	-0,0054	0,00000000000001	0,2144	0,3672	0,1013	0,1420
46.602.420.000.000	-0,0690	0,000000000000002	-0,0122	0,1566	0,2678	0,1336
758.846.556.031	-0,0026	0,00000000000132	0,3053	0,4717	0,1091	0,2482
34.367.153.000.000	-0,0484	0,00000000000003	0,1052	0,3300	0,1345	0,1361
648.016.880.325	-0,1159	0,0000000000154	0,1267 _{lava}	Uni 0,2029	Bra -0,1899	0,0728
96.537.796.000.000	-0,0700	0,00000000000001	0,0379 ijaya	Uni 0,4462	Bra 0,0660	0,1300
3.592.164.205.408	0,1438	0,00000000000028	0,2558/ijaya	Uni 0,6012	Bra 0,0258	0,1860
18.146.206.145.369	0,0006	0,00000000000006	0,0685 Jaya	0,4225	Bra 0,1260	0,1519
344.711.000.000.000	0,0119	0,000000000000000	iversita _{0,0057} /ijaya	0,1808	0,0819	0,0708
15.889.648.000.000	-0,0215	0,00000000000006	0,0076	0,2211	0,0467	0,0716
876.856.225.000	-0,0238	0,00000000000114	-0,0721	0,2792	0,0881	0,1510
584.733.176.234	-0,0031	0,00000000000171	-0,1608	0,3036	0,0409	0,1618
98.190.640.839	1,4125	0,0000000001018	iversita-0,1491	1,5832	0,0154	0,9059
1.312.376.999.120	-0,0326	0,00000000000076	iversita0,0144/ijaya	Uni 0,4561	Bra 0,0730	0,1735
wij 41.044.311.290.764 av	vij-0,0166	ver 0,00000000000000000000000000000000000	iversita0,0077vijaya	Uni 0,2746	Bra 0,0201	0,0720
awijay2.102.146.140.000 rav	-0,0398	ver 0,000000000000048	iversita-0,1448/ijaya	Univ0,2707	Brav0,0500	0,0920
wijay-567.956.245.715	-0,1177	0,0000000000176	iversita0,1811/ijaya	Uni 0,1669	Bra\0,0442	0,1326
3.244.821.647.076	0,1074	0,00000000000031	iversita _{0,0730} /ijaya	0,2706	Bra 0,0777	0,0999
3.747.570.000.000	-0,1110	0,00000000000027	o,1408 -0,1408	0,7070	-0,0383	0,1482
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	35.543.021.515			,000000000000				0,6489		0,1710
11010	39.602.054.832	-0,09	1 halizana	,00000000000	a History	0,0521	ijaya t	0,1897	Drawitava	0,0873
Hava	01.203.000.000	-0,02	Hairore	,00000000000	a Univers	-0,0267	ijaya L	0,2781	- Drawiiawa	0,1569
5.26	53.726.099.000	0,00	25 C	,00000000000)019	-0,3257	ijaya L	0,8286	0,0220	0,1761
1.10	09.843.522.344	-0,03	69 C	,00000000000)090	0,0551	ijaya t	0,8055	-0,0299	0,2269
2.18	37.879.000.000	-0,06	57, ver 0	,00000000000)046	0,5866	iava L	0,3914	0,0105	0,1739
18.66	57.187.000.000	0,02	39 _{niver} C	,0000000000	0005 _{nivers}	0,0107	iava L	0,8285	-0,0423	0,1773
112.28	32.845.632.924	0,00	79 _{niver} C	,00000000000	044 _{nivers}	0,0440	jaya L	0,6303	Bra 0,0347	0,1844
ijaya68	36.777.211.000 a	vij 0,04	65niver	,00000000000	146nivers	0,0765	jaya L	0,3332	Bra 0,0497	0,1806
ijaya27	75.031.024.800 ra	wij ∈0,21	68 iv	,00000000000	364nivers	sita-1,4306/i	ijaya L	ni 0,9498	s Bra-0,1396	0,2265
ija 4.28	34.901.587.126	vij-0,01	72 (,00000000000	0023	-0,0193	jaya L	0,6349	s Brav0,0145	0,1609
15.22	22.388.589.914	0,05	12 (,00000000000	0007	0,0768	jaya L	0,3772	Bra 0,0683	0,1219
8.88	31.778.299.672	-0,06	93 (,00000000000	0011	0,0061	jaya t	0,3391	0,0471	0,1012
ijaya ₃₃	30.955.269.476	-0,16	45 C	,00000000000	302	-0,0223	iaya L	0,3664	-0,0325	0,2338
5.1€	55.236.468.705	-0,03	45 (,00000000000	0019	-0,0576	1	0,3287	0,0153	0,0855
1,15	57.884.379.902	0,01	12 0	,00000000000	0086	0,0951		0,2678	0,0391	0,1314
11.32	29.090.864.000	-0,16	22 (,00000000000	0009	0,0120		0,8191	Bra 0,0292	0,2033
ijaya78	36.704.752.983	-0,07	60 0	,00000000000)127	0,1756		0,3273	Bra-0,0629	0,1375
ija 2.88	39.501.000.000	-0,04	45 (,00000000000	0035	-0,0501	- 11	0,5396	s Brav0,4228	0,2917
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DISCRETIONAL	RY ACCRUALS
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Univers	2015	ALKA Univ	ers _{0,0135} awijaya	-0,0854	Brawija _{0,0989} iversitas Brawijaya
Universi	2015	ROTI	-0,1330 -0,1330	-0,0913	Brawijaya Brawijaya
Univers	2015	ALMI	0,5272	-0,0245	Brawijaya Universitas Brawijaya
Univers	2015	AMFG	-0,0065	-0,0436	Brawijaya Universitas Brawijaya
Universi	2015	APLI	-0,0856	-0,0958	0 0101
Universi	2015	ARNA	-0,0299	-0,0635	Brawija 0,0335 iversitas Brawijaya Brawija 0,0335 iversitas Brawijaya
Universi	2015	BAJA	0,0188	-0,1655	Brawija0,1842 iversitas Brawijaya
Universi	2015	BTON	0,0247	-0,0183	awija 0,0430 iversitas Brawijaya
Univers	2015	CPIN	0,0069	-0,0557	ija0,0626 iversitas Brawijaya
Univers	2015	EKAD	-0,1713	-0,0241	-0,1472 iversitas Brawijaya
Univer	2015	GDST	-0,0696	-0,0591	-0,0105 iversitas Brawijaya
Univ	2015	IGAR	-0,0778	-0,0159	-0,0618 Brawijaya
Uni —	2015	INAI	0,0919	-0,0328	0,1247 iversitas Brawijaya
Uni	2015	INCI	-0,0552	-0,0493	-0,0059 iversitas Brawijaya
Uni	2015	INTP 🖷	-0,0274	-0,0377	0,0104 _{liversitas} Brawijaya
Univ	2015	JPFA	-0,0335	-0,0469	0,0135 iversitas Brawijaya
Univ	2015	KDSI	-0,0364	-0,0468	0,0104 iversitas Brawijaya
Unive	2015	KIAS	-0,0988	-0,0666	-0,0322 iversitas Brawijaya
Univer	2015	LMSH	-0,0716	-0,0407	-0,0310 iversitas Brawijaya
Univers	2015	MAIN	-0,0111	-0,0607	0,0496 iversitas Brawijaya
Universi	2015	ADES	0,0202	-0,0655	0,0858 iversitas Brawijaya
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awijaya	2017 AMFG	Universion 0,0515 awijaya	0,1838 -0,1	1323 Brawijaya
awijaya	Universit 2017 APLI	0,9735	0,1995 0,7	740 Brawijaya
awijaya	Univer sit 2017 ARNA	Universitas Brawilava	Hniversites Brawijava	Universitas Brawijaya
awijaya	2017 BAJA	0,0285	Universitas brawnava	Universitas Brawijaya
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awijaya	Universit 2017 BTON	Universitas brawijaya	Cilivarana bianijaya	0728 iversitas Brawijaya
awijaya	Universit 2017 rawij CPIN	Univers 0,0347 awijaya	. Officerottae Brannjaja	1040 iversitas Brawijaya
awijaya	Universit 2017 rawij EKAD			1382 iversitas Brawijaya
awijaya	Universit2017 rawijGDST	Univ -0,0294	0,2286 as Brawija-0,2	2581 iversitas Brawijaya
awijaya	Universi 2017 rawij IGAR	-0,0364	0,0931 as Brawija-0,:	1296 iversitas Brawijaya
awijaya	Universit 2017 rawii INAI	-0,0109	0,0437 Brawija-0,0	₀₅ 45 iversitas Brawijaya
awijaya	Universit 2017 INCI	0,0417	0,2001 -0,:	1584 iversitas Brawijaya
awijaya	Universit 2017 INTP	-0,0313		1624
awijaya	University 10EA	4.47	(2)	Universitas Brawijaya
awijaya	2017 KDCI	The second second	2 //	Universitas Diawijaya
awijaya	Uniy 2017 KDSI	0,0039		1734 iversitas Brawijaya
awijaya	2017 KIAS	-0,0598		2063 iversitas Brawijaya
awijaya	Un 2017 LMSH	SALL STATES	0,1665 -0,2	1795 iversitas Brawijaya
awijaya	Uni 2017 MAIN	-0,0586		1978 iversitas Brawijaya
awijaya	Uni 2017 ADES	-0,0633	0,1662 -0,2	2295 iversitas Brawijaya
awijaya	Univ 2017 KICI	-0,0267	0,1534 -0,1	801 iversitas Brawijaya
awijaya	Univ 2017 BUDI	-0,0097	0,1556 -0,2	1652 iversitas Brawijaya
awijaya	Unive 2017 CEKA	-0,0733	W	1378 Brawijaya
awijaya	University 2017 CINT	0,0772	2007	Universitas Brawijaya
awijaya	2017 SMGR		114	- Universi tas Brawilava
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awijaya	Universit 2017 DVLA	4 5 1 2 11 4	M ANNI V CI	1342 iversitas Brawijaya
awijaya	Universit 2017 GGRM	496 395	0,0958	1038 <u>ivers</u> itas Brawijaya
awijaya	Universi 2017 HMSP	<u> </u>		L406 iversitas Brawijaya
awijaya	Universit2017ra TOTO	-0,1841		3237 iversitas Brawijaya
awijaya	Universit 2017 ravo ICBP	-0,0569	0,0805 Brawija-0,:	1373 iversitas Brawijaya
awijaya	University 2017 MBTC	University -0,0863	0,0674 -0,2	1536 Versitas Brawijaya
awijaya	Universit 2017 INDF	Universi-0,0179 awijaya	0,1215 as Brawija -0,:	1394 Brawijaya
awijaya	University 2017 KINO	Hniversitas Brawijava	Hairavaikaa Dvarriiarra	Universitas Brawijaya
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awijaya	Universitas Brawijaya	Universitas Brawijaya		Universitas Brawijaya
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	awijaya	Univers	2017 aw	SPMA	-0,0183	0,0136	Brawija 0,03	19 iversitas	Brawijaya
	awijaya	Univers	2017	SRSN	-0,0951	0,0889	-0,18	39 iversitas	Brawijaya
	awijaya	Univers	2017	TIRT C	-0,0143	0,0879	-0,10	022	Brawijaya
	awijaya	Univers	2017	TRST	-0,0581	0,1499	-0,20	UHIVEIS ILAS	Brawijaya
	awijaya	Univer	2017	JSKW	-0,1029	0,0640	-0,16	Universitas	Brawijaya
	awijaya awijaya	Univ Uni	2017	WTON	-0,0463	0,1551	-	013 iversitas	Brawijaya
	awijaya	Uni	2017	YPAS	-0,1485	0,1564	// //	049 iversitas	
	awijaya	Uni	2017	BTEK	-0,0417	0,1497		14 iversitas	
	awijaya	Uni	2017	TRIS 🔽	-0,0503	0,0624		27 iversitas	
	awijaya	Univ	2017	KAEF	0,0708	0,0954	-0,02		Brawijaya
	awijaya	Univ	2017	LMPI	-0,0592	0,0917	-0,15	- 10	Brawijaya
	awijaya	Unive	2017	MLBI	30 20 1 31 1	W 7	-0,15	the state of the s	Brawijaya
	awijaya	Univer			-0,0042	0,1881		Hnivereitac	Brawijaya
	awijaya	Univers	2017	MRAT	-0,0241	0,0519	-0,07	Univers itas	Brawijaya
	awijaya	Univers	2017	VOKS	0,0585	0,0619	-0,00	Univers itas	Brawijaya
	awijaya	Univers	2017	SIDO	-0,0358	0,1153	-0,15	UTITYCISILAS	Brawijaya
	awijaya	Univers		TBLA	-0,0765	0,1293	-0,20	01111010111110	Brawijaya
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	awijaya	Univers	2017	WIIM	-0,1138	0,0656			Brawijaya
	awijaya	Univers	2017	UNIT	-0,0075	0,1827	Brawija-0,19	A F. A. C.	Brawijaya
	awijaya	Univers	2017	DLTA	-0,0521	0,0467	-0,09	988	Brawijaya
	awijaya awijaya	Univers	2017	INDS	-0,0834	0,1306	-0,21	L40	Brawijaya
	awijaya	Univers	2017	SCCO	0,0814	0,1918	Brawija-0,11	L04	Brawijaya
A	awijaya	Univers	2017	SSTM	-0,0758	0,1166	Brawija-0,19	24 iversitas	Brawijaya
	awijaya	Univers	2017 raw	STAR Univ	/ers-0,1133awijava	U 0,1171 as	Brawija-0,23	804 iversitas	Brawijaya
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<u> </u>	awijaya	Univers	12018 raw	JALKA Univ	/ers0,0329awijaya	Ur-0,0079as		08 iversitas	
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	awijaya	Univers	itas Braw	ijaya Uni	versitas Brawijaya	Universitas	Brawijaya	Universitas	Brawijaya
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awijaya	2018 BA	AJA -0,0902	0,0004	-0,0906	versitas Brawijaya
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awijaya	Universi 2018 HN	/ISP -0,1522	0,0129	-0,1650	vers itas Brawijaya
awijaya	Universit 2018 TO	OTO 0,1476	0,0161	0,1315	versitas Brawijaya
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awijaya	Universit2018 MI	3TO -0,1353	-0,0037	wija-0,1316	versitas Brawijaya
awijaya		DF 0,0047	-0,0081		versitas Brawijaya
awijaya		NO 0,0229	-0,0031	Brawija 0,0260	versitas Brawijaya
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awijaya 	Universit 2018 A	SII 0,0039	0,0014	0,0025	versitas Brawijaya
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		18 PKAS	-0,0065	-0,0077		
awijaya	Universit ₂₀	18 RICY	-0,1118	0,0158	awija-0,1275 versitas	Brawijay
awijaya 	Universit 20	18 SMSM	0,0445	0,0082	0,0362	Brawijay
awijaya	Universitas 20	18 MLIA	-0,0194	-0,0244	0,0050	Brawijay
awijaya	20	18 ALTO	-0,0367	-0,0164	-0,0203	Brawijay
wijaya	Universit20	- Diawijaya - C	-0,0404	0,0004	-0,0408	Brawijay
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wijaya		18 TIRT	-0,0574	0,0110	rawija-0,0684 versitas	
wijaya		18 TRST	-0,0166	-0,0135	rawija _{10,0031} iversitas	Brawijay
wijaya	The second	18 JSKW	-0,0100	0,0051	-0,0031 -0,0530 versitas	Brawijay
wijaya	Universites	18 WTON	-0,0349	0,0031	-0,0330 -0,0375	Brawijay
wijaya	universit		3 2		- Va Universitas	Brawijay
wijaya	Univer 20		-0,1312	0,0156	-0,1468	Brawijay
wijaya	Univ 20	-	-0,1907	-0,0035	-0,1872 versitas	Brawijay
wijaya	768 I -	18 TRIS	-0,0428	0,0394		Brawijay
wijaya	Uni 20		0,0596	0,0043	0,0553 iversitas	
wijaya		18 LMPI	-0,0904	0,0024	-0,0928 versitas	
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wijaya	Univer 20	18 TBLA	0,0606	-0,0115	0,0720	Brawija
wijava	Universi 20	18 TCID	-0,0086	-0,0066	-0,0020 versitas	Brawijay
wijaya	Universit ²⁰	18 TSPC	0,0203	-0,0262	0,0465 iversitas	Brawijay
awijaya	Universit20	18 WIIM	-0,0733	-0,0049	-0,0684 versitas	Brawijay
awijaya	Universit20	18 UNIT	-0,0114	-0,0056	wija-0,0058 iversitas	Brawija
wijaya	Universit20	18 DLTA	-0,0033	0,0101	awija-0,0133 iversitas	Brawijay
awijaya	Universit ₂₀	18 INDS	-0,0095	-0,0019	rawija 0,0076 iversitas	Brawija
wijaya	Universit ₂₀	18 SCCO	0,0300	0,0004	awija _{0,0297} iversitas	Brawija
wijaya	Universit ₂₀	18 SSTM	-0,0227	0,0020	-0,0248	Brawija
wijaya	Universitation 20	18 STAR	-0,0497	-0,0019		Brawijay Brawijay
wijaya wijaya	Universitas Universitas	18 INAF	-0,0674	-0,0108		Brawijay
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awijaya	Univer	2019	ICBP	-0,0484	0,1361		844 Brawijaya
awijaya 	Univers	2019	МВТО		0,0728		887
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awijaya		2019		•	0,1519		513 iversitas Brawijaya
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awijaya	11 1	2019 aw	AUTO		0,0716		9931 iversitas Brawijaya
awijaya	Universit	2019	BATA	-0,0238	0,1510	Brawija-0,1	.748 versitas Brawijaya
awijaya	Universit	2019	ULTJ	-0,0031	0,1618	Brawijaya,	.648 Brawijaya
awijaya 	Universit	2019	IMPC	1,4125	0,9059	0,5	Universitas Brawijaya
awijaya	Universit	2019	BOLT	-0,0326	0,1735	-0.2	Universitas Brawijaya
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awijaya	I I	2019 aw	PRAS	4.4 4 44 44 44	a U _{0,1710} as	100s	961 iversitas Brawijaya
awijaya		2019	RICY	-0,0965	0,0873	Brawijayo,1	.838 Versitas Brawijaya
awijaya	Universit			Universitas Brawijay		Brawijaya	Universitas Brawijaya
awijaya	Universit			Universitas Brawijay			Universitas Brawijaya
awijaya	Universit			Universitas Brawijay			
awiiava	Universit	as Kraw	IIava	IIIIWARITAS KRAWIIAV	a linivergitas	E RESWITAVA	Universitas Rrawijava

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Universitas Brawijaya		Universitas Brawijaya	Universitas Brawijaya
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Universit2019 raw BTON			154 iversitas Brawijaya 794 iversitas Brawijaya
CPIN	the second secon	The bound of the second of the	.754
2019 EKAD	- Hadron Demoliana	Universitae Brawilava	Hniversites Brawijaya
2019 GDST	Universitas Brawijava	Universitas Brawijava	1484 Hniversitas Brawijava
2019 IGAR	Universitas Brawilaya	Universitas Brawilava	1683 Universitas Brawijava
Universi 2019 INAI	Univers-0,0227	Dilliversitas brawijaya	.275 Diversitas Brawijaya
Universit 2019 rawij INCI	Univers 0,0212 awijaya	Ulliversitas brawijaya	652 iversitas Brawijaya
Universit2019 rawij INTP	Univers 0,0593 awijaya	omitorona branijaja	957 iversitas Brawijaya
Universit2019 rawij JPFA	Univers-0,0011 wijaya		533 iversitas Brawijaya
Universit2019rawij.KDSI			972 iversitas Brawijaya
Universi 2019 rawij KIAS	-0,3136		318 iversitas Brawijaya
Universit 2019 Taw LMSF	-0,1511		353 iversitas Brawijaya
2019 MAIN	-0,0313		002 iversitas Brawijaya
2019 ADES	-0,1114	0,1956 -0,3	069 iversitas Brawijaya Dhiversitas Brawijaya
2019 KICI	0,0055	0,4247 -0,4	192 Universitas Brawijaya
Univ 2019 BUDI	-0,0559	0,1556 -0,2	115 iversitas Brawijaya
Uni 2019 CEKA	-0,2045	0,0647 -0,2	692 iversitas Brawijaya
Uni 2019 CINT	0,0094	0,2459 -0,2	365 iversitas Brawijaya
Uni 2019 SMGF	R -0,0831	0,3800 -0,4	630 iversitas Brawijaya
Uni 2019 DVLA	-0,0317	0,1330 -0,1	647 iversitas Brawijaya
Univ 2019 GGRN	ı -0,0054	0,1420 -0,1	474 iversitas Brawijaya
Univ 2019 HMSF	-0,0690	0,1336 -0,2	026 iversitas Brawijaya
Unive 2019 TOTO	-0,0026	0,2482 -0,2	508 Brawijaya
2019 ICBP	-0,0484	0,1361 -0,1	844. Brawijaya
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Universi 2019 KLBF	465 355	/ Julya	513 iversitas Brawijaya
Universi 2019 ASII	0,0119		589 iversitas Brawijaya
Universit2019 AUTO			931 iversitas Brawijaya
Universi 2019 BATA			748 Brawijaya
Universi 2019 WLTJ	Hadron Harrison December 1	THE RESERVE OF THE PARTY OF THE	.648 Brawijaya
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UniversitaX2Br	-,009	,017	wijaya 4,060	rsit-,536	w,594
Universitax3	GITA-711F	,075	ilaya 4,170	-1,491	√,140
Iniversity x4	,078	,039	,238	1,973	,052

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a. Dependent Variable: y

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Universitas Br	,007	,016	wijaya	,048	,452	,653
Universitas Braw.	-,068	,020	wijaya	-,358	-3,394	,,001
Universita x4 Brawijaya	Universities ,348	ya universita178	wijaya	,205	1,956	w,054

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1 versit (Constant)	Universitas B _i 130ja	aya Universita <mark>042</mark>	awijaya Unive	-3,097	w,003
Jniversitax1Brawijaya	10423410698,779	8880256297,493	awijaya U,129	1,174	w,244
Jniversita <mark>x2</mark> Brawijaya	Universitas B,041ja	aya Universita060	awijaya U,074	rsita,682	W,497
Jniversita <mark>x3</mark> Brawijaya	Universitas ,239	aya Universita <mark>,073</mark> 7	awijaya U,369	3,292	W,002
Jniversita <mark>c4</mark> Brawijaya	Univ ,100	Universita,185	awijaya U,060	rsita,541	w,590
a Dependent Variable	A. V	rsitas Bra	awijaya Unive	ersitas Bra	awijaya

a. Dependent Variable: y

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a. Dependent Variable: y

Year 2019

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Coefficientsa

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21			SFCFAP)	
9		Frequency	Percent	Valid Percent	Cumulative Percent
9	0	285	72.2	72.2	72.2
Valid	1	110	27.8	27.8	100.0
2	Total	395	100.0	100.0	

Descriptive Statistics

TAS DA

N Minimum Maximum Mean Std. Deviation **AUCO** 2 395 22 6.42 3.633 **ICO** 395 .200.800.40781 .101854 **EM** 395 -.0670820 .14240383 -.53530 .59580 395 Valid N (listwise)

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Unive 4.2 Linear Regression Analysis wijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Coefficients^a Model Unstandardized Standardized t Sig. Coefficients Coefficients В Std. Error Beta (Constant) -.077 .008 -9.206 000. **SFCFAP** .036 .016 .115 2.294 .022

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Univer a. Dependent Variable: EM

4.2.2 Coefficient of Determination (R2)

Table 4.3

Model Summary

Unive Unive	Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
Unive	1	.115 ^a	.013	.011	.14163937

Univer a. Predictors: (Constant), SFCFAP

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Unive Table 4.4

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Coefficients^a

aw			Coefficients ^a			
Model aw		Unstand Coeffi	lardized cients	Standardized Coefficients	t	Sig.
aw		В	Std. Error	Beta		
aw	(Constant)	094	.039		-2.382	.018
∄W aw	SFCFAP	.224	.071	.707	3.144	.002
aw	AUCO	.000	.002	010	157	.875
aw 1 aw	SFCFAP.AUCO	009	.004	219	-2.104	.036
aw	ICO	.047	.083	.034	.569	.570
aw aw	SFCFAP.ICO	315	.153	432	-2.061	.040

aw a. Dependent Variable: EM

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Coefficient of Determination (R2) Unive 4.3.2

Unive Table 4.5

			1,10461	, and j	
ve N	/Iodel	R	R Square	Adjusted R	Std. Error of the
/e				Square	Estimate
e 1		.206a	.042	.030	.14024378

Model Summary

Univer a. Predictors: (Constant), SFCFAP.ICO, AUCO, ICO,

Univer SFCFAP.AUCO, SFCFAP

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Unive 4.4 Classical Assumptions of Regression Inversitas Brawijaya

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One-Sample Kolmogorov-Smirnov Test Unstandardized Residual N 395 .0000000. Mean Normal Parameters^{a,b} .14084345 Std. Deviation .065 Absolute Most Extreme Differences Positive .065 Negative -.050 Kolmogorov-Smirnov Z 1.299 .068 ersitas Brawijaya Asymp. Sig. (2-tailed)

a. Test distribution is Normal.

b. Calculated from data.

4.4.2 Multicollinearity Test

Table 4.7

Univer		Co	efficients ^a		
Unive	Model		Collinearity Statistics		
Unive			Tolerance	VIF	
Unive		SFCFAP	.996	1.004	
Unive	1	AUCO	.993	1.007	

.989

Coefficients^a

Univer a. Dependent Variable: EM

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Glejser Test

The fire							
Unive Model		Unstandardized		Standardized	t	Sig.	aya
Unive		Coefficients		Coefficients			aya
Unive		В	Std. Error	Beta			aya
Unive	(Constant)	.078	.023		3.423	.001	aya
Unive	SFCFAP	006	.011	029	581	.562	aya
Unive	AUCO	001	.001	030	600	.549	aya
Unive	ICO	.077	.048	.081	1.599	.111	aya
OHIVO							Justa

Univer a. Dependent Variable: Absolute Residual

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