# Fraud Triangle against Fraudulent Financial Statements

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**Abstract.** It is the focus of this study to investigate the fraud triangle in connection to fake financial statements. The data used in this investigation is quantitative. Secondary sources were used to gather the information. The following conclusions can be taken from the research: There is no correlation between financial stability and financial statement fraud, but financial stability, external pressure, financial target, ineffective monitoring, and the change in auditor all have an adjusted R square value of 43.7 percent and 2.5 percentand the remaining indonesia 56.3% (100% - 43.7%), malaysia 97.5% (100 % - 2.5%) explained by other variables that are not included in the regression model such as Personal Financial Need, Nature of Industry, Organizational Structure, and Nature of Industry.

Keywords:External Pressure; Ineffective Monitoring; Financial Target; Change in Auditor and Financial Statement Fraud; Financial Stability

# **1** Introduction

Many criminals have taken advantage of the global panic over the COVID-19 epidemic, which has had a negative impact on the health of people and the economy of many countries. "Fraud Alert: Be advised that criminals misuse COVID-19 internationally through a variety of frauds," said the strong warning from the US Department of Justice[1].

Financial statements are a form of structured presentation of financial position that provides an entity's financial performance during a certain period [2]. This manipulation activity is a form of fraud or fraud [3]. According to [4] Fraud is an act that can harm a person or many people, groups or companies by taking advantage for himself. Fraud is a deliberate act to deceive, deceive or a dishonest way to eliminate or take a sum of money, property, and rights that do not belong to us either because of an impact or a fatal action from the activity itself [5] If there is a material error in the financial statements, it must be presented honestly so that it can properly describe events and other transactions that actually occur in business activities [6]. There are cases of financial statement fraud that occurred in Indonesia, one of which is very familiar is the fraudulent financial report at PT Tiga Pilar Sejahtera Food Tbk (AISA), where two former directors, namely Stefanus Joko Mogogito and Budhi Istanto were charged by the prosecutor with seven years in prison and a maximum fine of 2 M. The prosecutor said that the alleged manipulation of financial statements by PT Tiga Pilar, namely

by Joko and Evidence was carried out to raise the company's share price at that time. The two directors have violated Article 95 of Law No. 8 of 1995 concerning the Capital Market.

# 2 Literature Review

### 2.1 Agency Theory

According to [7], agency theory is a concept that outlines the interaction between the agent (contract recipient) and the principal (contract giver). The principal grants the agent a contract by working to accomplish his objectives, thereby authorizing the agent to make decisions.

#### 2.2 Definition Financial Statement

According to [8]The financial statements of a firm show its financial state and performance at a specific point in time. Meanwhile, according to [9] Financial reports are one of the important sources of information besides information such as economic conditions, industry, management quality and others.

# 2.3 Definition Financial Statement Fraud

In the opinion of [10], financial statement fraud is the intentional distortion or obfuscation of financial statement information with the objective of fooling financial statement users. Accredited Certification Examiners (ACFE) defines financial statement fraud as deceit by management in the form of materially false and misleading claims in financial reports that harm investors and creditor rights. A financial or non-financial fraud may be perpetrated.

### 2.4 Definition of Fraud

According to [11], fraud is a premeditated act perpetrated by fraud perpetrators that results in financial statement misstatements. According to [12], fraud is an act of violating the rules in which the perpetrators are either inside or outside the organization, with the purpose of earning personal or group gains that can directly affect other parties [12].

#### 2.5 Fraud Tree

This Fraud Tree created by ACFE maps out fraud in the work environment. Forensic accountants are very helpful in diagnosing and recognizing fraud that occurs by using this map. There are several symptoms of fraud which in auditing are called red flags. By mastering investigative audit techniques and assisted by understanding these symptoms, forensic accountants can more easily detect fraud [13].

#### 2.6 Theory Fraud Triangle

SAS No. 99, Consideration of Fraud in Financial Statement Auditing, was originally published in the professional literature by [14]. The fraud triangle or the fraud triangle has been variously referred to as this concept. The title pressure is applied to the triangle's first point. Opportunity on the second corner. Rationalization is the third angle [13] The Fraud Triangle notion connects three variables that must exist for an individual to commit fraud - felt pressure, perceived opportunity to perform the fraud, and the ability to rationalize the fraudulent action in order for it to be accepted [9].

#### 2.7 Beneish M-Score

With the guidance of the Beneish model, Greece's financial institutions and government agencies can safeguard their customers and investors from speculative games and guarantee that Greece's economy runs smoothly and efficiently" [5].

Roxas concluded that the SGAI, LVGI, and TATA indices of total accruals to total assets utilized by Beneish had little bearing on the company's financial performance. Thus, a new term, limited to five indicators, and new thresholds are created for the m-score indicator:

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M \quad score = -6.065 + 0.823 \times DSRI + 0.906 \times GMI + 0.593 \times AQI + 0.717 \times SGI + 0.107 \times DEPI (3)
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(Account Receivablet-1/Salest-1)	Sales Growth Index (SGI) = $\frac{\text{Sales}_{t}}{\text{Sales}_{t-1}}$
$Gross Margin Index (GMI) = \frac{[(Sales_{t-1}-COGS_{t-1}/Sales_{t-1})]}{[(Sales_t-COGS_t)Sales_t]}$	$Depreciation Index (DEPI) = \frac{[Depreciation_{t-1}/(PPE_{t-1}+Depreciation_{t-1})]}{[Depreciation_{t}/(PPE_{t}+Depreciation_{t})]}$
Asset Quality Index (AQI) = $\frac{[(1-(Current Asset_t+PPE_t)/Total Asset_t]}{[(1-(Current Asset_{t-1}+PPE_{t-1})/Total Asset_{t-1})]}$	$Sales \ General \ and \ Administrative \ Expenses \ Index \ (SGAI) = \frac{SGBA \ Expenses_{t/Sales_{t-1}}}{SGBA \ Expenses_{t-1}/Sales_{t-1}}$
$Leverage Index (LVGI) = \frac{[(Current Liabilities_{t}+Long Term Debt_{t})]}{[(Current Liabilities_{t-1}+Long Term Debt_{t-1})]} / Total Assets_{t-1}}$	$LEVERAGE = \frac{\text{Total Hutang}}{\text{Total Aset}}$ $ROA = \frac{\text{Laba Bersih Setelah Pajak}_{\text{Total Aset}_{t}}$
$\frac{(\text{Net Income From Continuing Operations})}{\text{Total Accruals to Total Assets}(TATA)} = \frac{+Cash Flow Operations}{\text{Total Assets}}$ $ACHANGE = \frac{\text{Total Asset}_{t-1}}{\text{Total Asset}_{t-1}}$	Total Aset t BDOUT = Total Dewan Komisaris Independen Total Dewan Komisaris

# **3** Result and Discussion

#### 3.1 Descriptive Statistical Analysis

Descriptive Statistics					1	Descriptive	Statistics				
	Ν	Minimum	Maximum	Mean	Std. Deviation		N	Minimum	Maximum	Mean	Std. Deviatio
Kecurangan LK	60	-3,83	3,71	-1,8412	1,45300	Kecurangan LK	60	-3,46	-1,73	-2,6741	,410
Financial Stab	60	-,07	,10	,0164	,03345	Financial Stab	60	-,08	.10	,0053	,037
Eksternal Press	60	,14	,63	,4000	,13561	Eksternal Press	60	,05	,63	,4022	,194
Financial Target	60	-,06	,10	,0110	,02453	Financial Target	60	-,03	,03	,0081	,013
Ineffective	60	.50	1.00	.7000	.24702	Ineffective					
Monitor		,	1,00	,		Monitor	60	,50	,50	,5000	,000
Change Auditor	60	,00	1,00	,2667	,44595	Change Auditor	60	.00	.00	.0000	.000
Valid N (listwise)	60					Valid N (listwise)	60				

Indonesia



# 3.2 Multiple Linear Regression Analysis

			. c	oefficients*				
Model		Unstandardized Coefficients		Standardize d Coefficients		Sig.	Collinearity Statistics	
		в	Std. Error	Beta			Toleranc e	VIF
	(Constant)	-2,595	1,504		-1,726	,090		
	Financial Stab	,678	5,897	,016	,115	,909	,869	1,151
	Eksternal Press	-,953	2,313	-,089	-,412	,682	,344	2,911
	Financial Target	-15,747	8,085	-,266	-1,948	,050	,860	1,163
	Ineffective Monitor	2.290	1.184	.389	1,933	,050	.395	2,532
	Change Auditor	-1,145	.721	-,351	-1,587	,118	,327	3,060
a De	pendent Varial	the Kacaman	tao 1 K					

			Cor	fficients*		
Mos	del	Unstandardized Coefficients		Standardize d	1	Sig.
				Coefficients		
		в	Std. Error	Beta		
	(Constant)	-2,000	,214		-9,339	,000
	Financial Stab	-,264	1,431	-,024	-,184	,855
	Eksternal Press	-,881	,309	-,418	-2,849	,006
1	Financial Target	7,676	4,534	,257	1,693	,096
	Ineffective Monitor	-,582	,257	-,350	-2,265	,028
	Change Auditor	,161	,171	,148	,943	,350

Indonesia



# **3.3Classic Assumption Test**

		Unstandardized Residual
N		60
Normal	Mean	0E-7
Parameters <sup>s,b</sup>	Std. Deviation	,65023135
Most Extreme	Absolute	,154
Differences	Positive	,154
Differences	Negative	-,098
Kolmogorov-S	mirnov Z	1,191
Asymp. Sig. (2	-tailed)	,117
a. Test distribut	tion is Normal.	
b. Calculated fr	om data.	

Indonesia

#### Collinearity Statistics Toleranc VIF (Co 1,121 1,426 Financial Stab 897 Eksternal Pres ,701 Financial Target ,658 1,519 Ineffective .633 1,57 Mon Change Audi .61 a. Dependent Varia ngan LK

Coefficients\*

Model

Malaysia

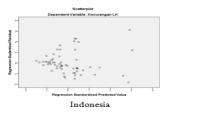
# 3.4 Multicollinearity Test

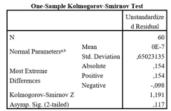
Model		Collinearity	Statistics
		Tolerance	VIF
	(Constant)		
	Financial Stab	,869	1,151
	Eksternal Press	,344	2,911
1	Financial Target	,860	1,163
	Ineffective Monitor	,395	2,532
	Change Auditor	,327	3,060

a. Dependent Variable: Kecurangan LK

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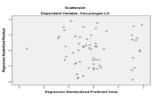
# 3.5 Heteroscedasticity Test





a. Test distribution is Normal.b. Calculated from data.

Malaysia





# **3.6 Autocorrelation Test**

Runs Test						
	Unstandardize					
	d Residual					
Test Value <sup>a</sup>	-,13364					
Cases < Test Value	30					
Cases >= Test Value	30					
Total Cases	60					
Number of Runs	38					
z	1,823					
Asymp. Sig. (2- tailed)	,068					
a. Median						

Indonesia

Runs Test						
	Unstandardize d Residual					
Test Value <sup>a</sup>	-,02967					
Cases < Test Value	30					
Cases >= Test Value	30					
Total Cases	60					
Number of Runs	26					
Z	-1,302					
Asymp. Sig. (2- tailed)	,193					

Malaysia

# 3.7 T-test

Model		lodel Unstandardized Coefficients		Standardize d Coefficients	t	Sig.
		в	Std. Error	Beta		
	(Constant)	-2,595	1,504		-1,726	,090
	Financial Stab	,678	5,897	,016	,115	,909
	Eksternal Press	-,953	2,313	-,089	-,412	,682
1	Financial Target	-15,747	8,085	+,266	-1,948	,050
	Ineffective Monitor	2,290	1,184	,389	1,933	,058
	Change Auditor	-1,145	,721	-,351	-1,587	,118

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			Coe	fficients*		
Model		odel Unstandardized Coefficients		Standardized Coefficients	Т	Sig.
		в	Std. Error	Beta		
	(Constant)	-2,000	,214		-9,339	,000
	Financial Stab	-,264	1,431	-,024	-,184	,855
	Eksternal Press	-,881	,309	-,418	-2,849	,006
1	Financial Target	7,676	4,534	,257	1,693	,096
	Ineffective Monitor	-,582	,257	-,350	-2,265	,028
	Change Auditor	,161	,171	.148	.943	.350
			Malays	ia		

# 3.8 F-test

	ANOVA							
Mo	del	Sum of Squares	df	Mean Square	F	Sig.		
	Regression	862,127	5	172,425	4,990	,001 <sup>b</sup>		
1	Residual	1865,792	54	34,552				
1	Total	2727,919	59					

a. Dependent Variable: abs.y b. Predictors (Constant), Change Auditor, Financial Target, Financial Stab, Ineffective Monitor, Eksternal Press

Indonesia

			ANOVA			
Mo	del	Sum of		Mean Square	F	Sig.
		Squares	Df			
Г	Regression	1,829	5	,366	2,431	,046*
1	Residual	8,124	54	,150		
L	Total	9,953	59			

2:053 29/ 1/2
 2:053 29/ 1/2
 A Dependent Variable: Kecurangan LK
 b. Predictors: (Constant), Change Auditor, Financial Stab, Eksternal Press, Financial
 Target, Ineffective Monitor

# Malaysia

# 3.9Coefficient of Determination Analysis (R<sup>2</sup>)

	Model Summary <sup>b</sup>				
Mod el	R	R Square	Adjusted R Square	Std. Error of the Estimate	
1	6962	485	.437	67967	

a. Predictors: (Constant), Change Auditor, Fin

ancial Stab, Financial Target, Ineffective Monitor, Eksternal Press b. Dependent Variable: abs\_y1

Indonesia

	Model Summary <sup>b</sup>				
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	
1	,274ª	,075	,025	,20385	

a. Predictors: (Constant), Financial Target, Financial Stab, Eksternal Press b. Dependent Variable: ABS\_Y

#### Malaysia

# 4 Conclusion

The results of the Indonesian Statistical Test, the Effect of Financial Stability (X1) has no effect on Financial Statement Fraud, External Pressure (X2) have no effect on Financial Statement Fraud, Ineffective Monitoring (X4) have no effect on Report Fraud Finance and Change in Auditor (X5) have no effect on Financial Statement Fraud. Malaysia Statistical Test Results, Financial Stability Effect (X1) have no effect on Financial Statement Fraud, Financial Statement Fraud, External Pressure (X2) have no effect on Financial Statement Fraud, External Pressure (X2) have no effect on Financial Statement Fraud, Financial Statement Fraud, External Pressure (X2) have no effect on Financial Statement Fraud, Ineffective Monitoring (X4) have an effect on Financial Statement Fraud, Financial Statement Fra

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