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# THE EFFECT OF COMPANY SIZE, SYSTEMATIC RISK AND INDEPENDENT COMMISSIONERS ON DISCLOSURE OF INTELLECTUAL CAPITAL

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#### ABSTRACT

The purpose this study is to determine the effect of company size, systematic risk and independent commissioners on intellectual capital disclosure in banking companies listed on the Indonesia Stock Exchange. The dependent variable is disclosure of intellectual capital, while the independent variable is company size, systematic risk and independent commissioners .This riset was conducted on banking companie listd on the Indonesia Stock Exchange (IDX) by accessing secondary data on annual reports for the 2015- 2018 period. The results of the sample selection were 35 banking companies. The sample method used in this study is to use no-probability sample method with the sample technique chosen is purposive sample. The analysis used in this research is panel data regression analysis. The partial evaluation hypothesis testing results show that firm size and systematic risk have a significant positif effect on intellectual capital disclosure, while independent commissioners do not have a significant negatif effect on intellectual capital disclosure

Keywords: Company Size, Systematic Risk, Independent Commissioner, Intellectual Capital Disclosure

#### 1. INTRODUCTION

Public companies are required to make annual reports that have been audited by an independent public accounting office as very important information for investors on the basis of consideration of investment decisions. In the current era of globalization, business people realize that business competition lies no only in ownership of tangibility assets, but rather in creation, information syste, organizational management, and organizational resources they own (Marcelia and Purnomo 2016).

In Indonesia, intellectual capital developed after emergence of "Financial Accounting Standard Statement (PSAK) No. 19 (revision 2010) "concerning intangible asse, intellectual capital also a process of providing true information that concerns about the presentation at the company's annual report". One who fall into the category of knowledge-based indusrti ( knowlegde based industry) is the industry of banking.

The disclosure of intellectual capital featured in news sites online in December 2012 about PT. Bank Panin, Tbk was demanded to pay severance pay to two employees of Bank Panin who were laid off. The same case also happened to Bank Rakyat Indonesia (Persero) Tbk in March 2013, which was demanded to settle its obligations to retirees, namelv severance pay, tenure awards, and compensation money. This case indicates that there is a lack of comprehensive disclosure of regarding information company activities and operations.

Company size is one the factors affect intellectual that capital disclosure . This is indicated by the size of a company on total assets, sales, average sales and average assets. The bigger the higher company siz, level of intellectual capital disclosure in annual report, and the bigger the company, the greater the funds for the management and maintenance of intellectual capital so that it continues to be optimal and the intellectual capital performance is higher, Ashari, PMS, and Putra ( 2016).

The next factor that affects intellectual capital disclosure is systematic risk that cannot be diversified. Systematic risk has the potential to increase or decrease the company's performance and share price, because systematic risk is uncontrolable. In addition, there are other actors who can influence intellectual capital disclosure, namely independent commissioners. An independent commitoner is a member of the board of commissioners who is not affiliated with the board of directors, other membrs of the board of commissioners and controlling shareholder, and is free from business or other relationships that may affect his or her ability to act indepndently or act solely for the benefit independent commissioner company "(Law No. 40 of 2007 concerning Limited Liability Companies)".

An independent commissionr an independent and neutral party in the company, which is expected to bridge the infrmation asymmtry that occurs between the owner and the manager. "If the supervision has carried out effectively, then the management of the company will be carried properly, out and disclose all management will available information, including information about intellectual capital , White (2007)".

White research (2007) "concluded that an independent commissioner influential the intellectual capital disclosure " This is in line with the basic theory, because the existence of independent commissioners supports the principle of responsibility to disclose intellectual capital in implementing which corporate governance requires responsibility to stakeholders Nughroho (2017) . "states that independent commissioners have no effect on intellectual capital disclosure because the roles and functions of the independent commissioners are not optimal". Where the existence of independent commissioners who

should support the responsibility to disclose intellectual capital and the implementation of corporate governance , has even caused disruption of functions and duties. It is also possible for a company to have high management ownership so that it will focus more on the interests of the owners rather than optimizing disclosure of intellectual capital.

## 2. LITERATURE REVIEW

## 2.1 Agency Theory

Agency theory aims to improve ability individuals (both principals in evaluating the and agents) company environment where a decision must be made ( The Belief Revision role), in addition, financial theory also aims to evaluation results decisions that have been taken to facilitate the allcation of results between principals and agents. in accordanc with the agreemnt in the work contract "( The Performance Evaluation role )". Agency theory asserts that disclosure can reduce agency costs in the relationship between shareholders as providers of management funds and as operational decision makers, Jensen and Meckling (1976). The agency costs arise due to agency conflicts caused by differences in the management function (manager) and the company's ownership and control functions (the principal) which results in moral hazard, Jensen and Meckling (1976).

## 2.2 Signal Theory

Signaling theory is basically concerned with the decrease in information asymmetry between the two parties, Spence (2002). Signaling theory is also concerned with dealing with problems arising from information asymmetry in social settings. This shows that information asymmetry can be reduced if those who have the information can send signals to related parties. A signal can be an observable action, or an observable structure, which is used to show the hidden characteristics (or qualities) of the signaler . Signal delivery is usually based on the assumption that it should be profitable for the signaler (for example showing a higher quality of the product compared to its competitors), An (2011).

# 2.3 Intellectual Capital Disclosure

Intellectual capital referring to the capitals of non-physical or intangible capital (intangible assets) or invisible (invisible) associated with knowledge and human experience and the technology used. There are 3 main elements of intellectual capital according to Sawarjuwono (2003) in Istanti (2009),namely Human Capital (human capital), Structural Capital or Organizational Capital (organizational capital), Relational or Customer Capital Capital (customer capital).

# 2.4 Company Size

"Company size describes size a company as measurd by the total assets owned by the company", Sujoko and Soebiantoro in Pusanti (2013). Total assets are a relatively more stable measure compared to other company measuremnts, Muksodah, Oemar, Andini, (2015).

## 2.5 Systematic Risk

Systematic risk or market risk is a risk that is always there and cannot be eliminated by diversifying because it will affect all operating companies. Systematic risk is related to macro factors that occur outside the operating company. These factors are economic growth, deposit interest rates, inflation rates, foreign exchange rates, government policies in the economic sector and others.

#### 2.6 Independent Commissioner

Independent commissioner is a membr board of commissionrs who is not affiliation with the board of directors, other members of the board of commissioners and control shareholder. and free business relationships and other rlationships that may affect his ability to act independently, the independent board of commissionrs is to ensure that the company's trials run well participate in decision making and ensure that management decisions are in line with the interests of the owners. so the presence of independent commissioners can affect the level of broader skill disclosure, Hanniffa (2005).

## 2.7 Research Hypothesis

Theoretical basis that analyzes effct of company size, systematic risk and independent commissioners on intellectual capital disclosure, the hypothesis can be explained as follows:

# 2.7.1 The Effect of Company Si ze Intellectual Capital Disclosure

Company size describs size a company as measured by knowing the total assets owned by the company. And the higher the demand for information disclosure compared to smaller companies.

 $H_1$ : Company size has a positive effect on Intellctual Capital Disclosre.

#### 2.7.2 The Effect Systematic Risk on Intelectual Capital Disclosre

By informing the market and shareholders of intellectual capital in the company, management hopes to reduce the risk associated with the company by reducing uncertainty about "hidden value" and its potential.

 $H_2$ : Systematic risk has a positive effect on Intelectual Capitl Disclosure.

#### 2.7.3 Effect of Independent Commissioners on Intellectual Capital Disclosure

If the supervision has been carried out effectively, then the management of the company will be carried out properly, and management will disclose all available information, including information about intellectual capital, White (2007).

H<sub>3</sub>: Independent Commissioner has a positif effct Intellectual Capital Disclosre.

## 3. RESEARCH METHOD

#### 3.1 Data Collection Techniques

This research uses a quantitative approach. According to Sugiono (2017: 8) "quantitative research be interpretedas methods can research methods based on the philosophy of positivism, used to research on certain sample populations, data collection using research instruments, data analysis is quantitative / statistical, with the aim of testing predetermind hypoteses".

# **3.2 Operational Definitions of Variabels**

The dependent variabel is intellectual capital disclosure and the independent variables are company size, systematic risk and independent commissioners.

# **3.3 Sample Collection Techniques**

The population taken was all banking companies for the 2015-2018 period with 35 companies, th criteria were:

1. Banking sub-sector companies listed on the ISE during the 2015-2018 priod.

 During 2015-2018 period, company published complete financial reports in rupiah currency.
Have data regarding company size, systematic risk, and an independent board of commissioners during the 2015-2018 observation period.

#### **3.4 Data Analysis Techniqes**

Method in this studi using a nalisis panel data regression which is a combinaton of data cross section (data several companies) and data time series (data collected over one year), where the cross section the same measured at different times. "So in other words, panel data is data from several companies (samples) that were observed over a certain period of time", Eksandy (2018: 23).

## 4 RESULT AND DISCUSSION

#### 4.1 RESULT

Descriptive analysis use to be able to see an overview of the distribution of the data to be studied (Eksandy, 2018: 66). The data distribution can be seen through the mean, median, max value, min value and standard dviation. Based on the output of Eviews 9.0.

ICD	SIZE	BETA	KI
1.331764	17.52659	0.809493	0.588929
1.361000	17.23800	0.632000	0.600000
1.500000	20.98300	13.75100	0.750000
1.056000	10.16600	-4.527000	0.400000
0.109929	1.824081	2.007808	0.092486
-	-		
0.611132	0.256228	2.004362	0.034319
2.424528	3.544421	15.28025	1.849749
10.64639	3.260866	973.4342	7.745436
0.004877	0.195845	0.000000	0.020802
186.4470	2453.723	113.3290	82.45000
1.679717	462.4910	560.3498	1.188971
140	140	140	140
	1.331764       1.331764       1.361000       1.500000       1.056000       0.109929       0.611132       2.424528       10.64639       0.004877       186.4470       1.679717	1.331764     17.52659       1.331764     17.52659       1.361000     17.23800       1.500000     20.98300       1.056000     10.16600       0.109929     1.824081       0.611132     0.256228       2.424528     3.544421       10.64639     3.260866       0.004877     0.195845       186.4470     2453.723       1.679717     462.4910	1.331764     17.52659     0.809493       1.361000     17.23800     0.632000       1.500000     20.98300     13.75100       1.056000     10.16600     4.527000       0.109929     1.824081     2.007808       0.611132     0.256228     2.004362       2.424528     3.544421     15.28025       10.64639     3.260866     973.4342       0.004877     0.195845     0.000000       186.4470     2453.723     113.3290       1.679717     462.4910     560.3498

Source: processed data, Eviews 9 output

Base on the table abov, the sample (N) used 140 data consisting of 35 companies with an observation period of 4 years, namely the 2015-2018 period. I ntellectual capital disclosure ( ICD ) has a minimum value of 1.05600, the maximum value of 1.500000. The average value is 1.331764 and the standard deviation is 0.109929. D ari results of the average derived from the cumulative index score of intellectual capital disclosures by 48 of 63 score. Compny Size has a min value of 10.16600, a max value 20.98300 with an average value of 17.52659 and a standard deviation of 1.824081 . Systmatic Risk (BETA) has a min value of -4.527000, a max value of 13.75100, an average value of 0.809493 and a standard dviation of 2.007808 . I ndependent Commissionr (KI) has a min value of 0.400000, the max value of 0.750000 owned by Bank Victoria International Tbk in 2017 and 2018, the average value of 0.5888929 and a standard deviation of 0.092486.

#### **Panel Data Regression Estimates**

Model common effect s a panel data approach simplest. More about the results of the common effect model approach as follows:

Depender	nt Variab	le: ICD	)		
Method:					
Date: 09/2					
Sample: 2	2015 201	8			
Periods in	ncluded:	4			
Cross-sec	tions inc	luded:	35		
Total pan	el (balan	ced) ob	servatior	ns: 140	
-			t-		
Variable	Coeffi	Std.	Statistic		
	cient	Error		Prob.	
	0.76700	0.101	7.53268		
С	8	824	3	0.0000	
	0.03361		7.82028		
SIZE	3	298	4	0.0000	
	0.00998		2.66833		
BETA	1	741	5	0.0085	
	-		-		
	0.05510	0.083	0.65875		
KI	5	650	6	0.5112	
R-	0.39678	Me			
	0.39078 6			1 221764	
squared	0	depend	lent var	1.331764	
Adjusted R-	0.38348	S.E	<b>`</b>		
				0 100020	
squared	0	depend	ient var	0.109929	
S.E. of		A 1-	.:1:.f.		
regression			aike info		
0	5	criterio	on	-2.033480	
Sum	1 01222	C -1			
squared resid	1.01322 9				
	7	criterion -1.949434			
Log	146 242	ŢŢ.			
likelihood					
Б	6	Quinn criter1.999326 Durbin-			
F-	29.8196			0.010700	
statistic	6	Watson stat 0.218729			
· · ·	0.00000				
statistic)	0				

Table 2. Common Effect Model

Source: processed data, Eviews 9 output

The fixed effects model assumes the differences between that individuals can be accommodated from differences in the intercept. Learn more about the results of the approach Fixed Effect s Model as follows:

	Table 3.Fixed Effect Model					
	ndent V					
Metho	od: Pan	el Leas	t Squar	es		
Date:	09/29/1	9 Tin	ne: 14:3	31		
Samp	le: 2015	5 2018				
Period	ls inclu	ded: 4				
Cross	-sectior	ns inclu	ded: 35	5		
Total	panel (	balance	d) obse	ervations: 140		
			t-			
Varia	Coeff	Std.	Statist			
ble	icient		ic	Prob.		
	1.160	0.084	13.73			
С	978	500	940	0.0000		
	0.011	0.004	2.390			
SIZE	071	632	080	0.0187		
	0.008	0.001	6.086			
BETA	636	419	395	0.0000		
	-		-			
	0.051	0.058	0.874			
KI	339	736		0.3841		
	s Speci					
	-sectior		fixed			
(dumm	y varia	bles)	1			
R-		Me	an			
square	0.951	depend	lent			
d	299	var		1.331764		
Adjust						
ed R-		S.D	<b>)</b> .			
square	0.933	depend	lent			
d	633	var		0.109929		
S.E. of		Ak	aike			
regress		info				
ion	320	criteric	n	-4.064336		
Sum						
square	0.081	Sch	iwarz			
d resid		criteric		-3.265890		
Log		Hannan-				
likelih	322.5	Quinn criter.				
ood	035	<b>Z</b>		-3.739872		
600 F-	555			2.137012		
-	53.84	Du	rbin-			
c	887			1.733416		
Prob	0.000	,, atsol	Watson stat 1.733416			
	0.000					
(F)	000					

Source: processed data, Eviews 9 output

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In this model, panel data estimates will be selected where the residuals may be interrelated over time and between individuals. Learn more about the results of the approach Random Effect s Model as follows:

Tabel 4. Kanaom Effect Model						
Redundant Fixed Effects Tests						
Equation: EQ0	1					
Test cross-sect	ion fixe	ed effec	ets			
	Statis					
Effects Test	tic	d.f.	Prob.			
Cross-section	34.15	(34,10				
F	8122	2)	0.0000			
Cross-section	352.3					
Chi-square	19811	34	0.0000			

Source: processed data, Eviews 9 output

#### **Model Selection Model Estimation**

The Chow test is a test to determine the Fixed Effect or Common Effect model that is more appropriate to use in estimating panel data.

Table 5.	Uji Chow
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Lagrange	Multip	lier 7	Fests	for	Random		
Effects							
Null hypo	otheses: N	No eff	ects				
Alternativ	Alternative hypotheses: Two-sided						
(Breusch-H	Pagan) ar	nd one	e-side	d			
(all o	others) al	ternat	ives				
Test Hypothesis							
	Cross-	Ti					
	section	me	Both	ı			
Breusch-	156.96	0.90					
Pagan	96	0271	157.8	3699			
		(0.3					
	(0.0000)	427)	(0.00	(00			

Source: processed data, Eviews 9 output

Based on Table 4.1.5 above, the cross-section probability value F is 0.0000 <0.05 and the chi-square cross section is 0.0000 <0.05. Therefore, the regression model is better to use the Fixed Effect Model than the Common Effect Model.

Table 6. Uji Hausman

Dependent Method: P. random effe Date: 09/29 Sample: 20 Periods inc Cross-secti Total pane 140 Swamy a component y	anel E0 cts) 9/19 T 015 201 luded: 4 ons inc l (balan nd Ar	GLS (C ime: 14 8 4 luded: nced) c rora e	2ross-se 4:41 35	tions:
	Coeff	Std	Statist	Pro
Variable		Error	ic	b.
v arrable		0.078	13.71	0.00
С		0.078	536	0.00
C		0.002	4.201	0.00
SIZE	0.010 946	0.004 034	4.201 048	0.00
SIZE		0.001	6.098	0.00
ВЕТА		412	774	0.00
DEIA	012	412	//4	00
	- 0.071	0.055	1.288	0.19
KI		417	254	98
	Effect Specifi			
			S.D.	Rh o
			0.084	0.89
Cross-secti	on rand	lom	229	84
01000 0000	01114110		0.028	0.10
Idiosyncrat	ic rand	om	320	16
101059110100	Weigl		020	10
	Statisti			
		Me	an	
R-	0.307	depend		0.22
squared	561	var		0786
1		S.I	).	
Adjusted	0.292	dependent 0.		
R-squared	287	var		4155
		Su	m	
S.E. of	0.028	square	0.11	
regression	733	resid 228		
0	20.13			
F-statistic	578	Watso	0189	
Prob(F-	0.000			

Source: processed data, Eviews 9 output

The probability value of random cross-section is 0.0718> 0.05. Therefore, it is better if the regression model uses the Random Effect Model than the Fixed Effects Model.

The cross-section probability value of Breusch-pagan is 0.0000 <0.05. Therefore, it is better if the regression model uses the Random Effect Model than the Common Effects Model.

The Adjusted R- Squared value of 0.292287 shows that 29.22% of the independent variables in this study can explain Intellectual Capital Disclosure, while the remaining 70.78% is explained by other factors not examined in this study. This means that the level of the relationship between the variables of Company Size, Systematic Risk and Independent Commissioners on Intellectual Capital Disclosure is low / weak.

Based on the results shown in the table above shows that the value of the F-statistic of 20.13578, while the value of the F-table with a probability level of 0.05, df (k-1) = 3 and df 2 (nk) = 136 of 2.67. Thus the F- statistic value is 20.13578 > 2.61 F-table value and Prob (F- statistic ) value is 0.000000 <0.05, so it can be said that Company Size, Systematic Risk and Independent Commissioner jointly influence Intellectual Capital. Disclosure.

The results of the t table are calculated with the level of  $\alpha = 5\%$ , df (nk) = 136, then the t table value is 1.97756.

## 5. CONCLUSION

1. Based on the results of the tstatistic test obtained with a positive value of (4.201048)> t Table (1.97756) and the value of Prob. (0.0000) <0.05 indicates that firm size (X 1) has a significant positive effect on Intelletual Capital Disclosure (Y), meaning that if firm size increases, intellectual capital disclosure will increase.

2. Based on the results of the tstatistic test obtained with a positive value of (6.098774) > t Table ( 1.97756) and the Prob value. (0.0000)< 0.05 indicates that Systematic Risk (X 2) has a significant positive effect on Intellectual Capital Disclosure (Y), which means that if Systematic Risk Intellectual increases. Capital Disclosure will increase.

3. Based on the results of the tstatistic test obtained with a negative value of (- 1.288254) <t Table (1.97756) and the Prob value . ( (0.1998) > 0.05 indicates that the Independent Commissioner (X 3) does not have a significant negative effect Intellectual Capital on Disclosure (Y), which means that the rise and fall of Independent Commissioners does not have a significant effect on the rise and fall of Intellectual Capital Disclosure . This indicates that the number of independent commissioners does not affect the company in disclosing its intellectual capital.



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