The impact of ownership structure on intellectual capital disclosure

by Istianingsih Aloysius Harry Mukti

Submission date: 16-Nov-2020 06:01PM (UTC+0700)

Submission ID: 1447673608

File name: f Ownership Structure on Intellectual Capital Disclosure 1C.docx (125.33K)

Word count: 6377

Character count: 35705

International Business Management (3):

ISSN: 1993-5250

O Medwell Journals, 2018

The Impact of Ownership Structure on Intellectual Capital Disclosure

Aloysius Harry Mukti and ²1stianingsih ¹Nusantara Institute of Business, Jakarta, Indonesia ²1ndonesia Banking School, Jakarta, Indonesia

Abstract: Intellectual capital disclosure is an impertant topic to study because it can reduce the information asymmetry between company and stakeholders. This study aims to examine the determinants of intellectual capital disclosure of public companies in Indonesia. The examined factors were family ownership, state ownership and üustitutional ownership. A total of 18 00 annual reports of all public company in Indonesia Stock Exchange from 2004-2008 were examined. Hypothesis testing was performed using multiple linear regression analysis. The results showed that family ownership did not affect intellectual capital disclosure. Meanwhile, institutional ownership in the form of banks and financial institutions had positive effect on the company' sintellectual capital disclosure. Higher public demands on companies w 32 broad ownership of SOEs led to more intellectual capital disclosure. This study provides information on the eleterminants of intellectual capital disclosure based on the ownership structure of companies in Indonesia, so, it is expected that management can implement disclosure policies required by investors in order to reduce information asymmetry.

Ke words: Intellectual ca ital, disclosure, ownershi structure, famil ownershi determinants, as mme

INTRODUCTION

Disclosure of intellectual capital is a challenge for companies operating in knowledge-based industries or depending on the environment. On the one hand, the existence of information asymmetry among investors due to the inability of the financial statements to reflect the ownership of intangible assets has resulted in an increased of investment risk, so that, it will eliminate investor confidence (Aboocly and Lev, 2000; Lev, 2001) If companies do not disclose their intellectual capital, they will face negative consequences such as stock price volatility is high because of the errors of judgment of investors as a result of information asymmetry. Another possible consequences the increase of asymmetry of information that is likely to increase the cost of capital (Botosan, 1997; Sengupta, 1998).

On the other hand, there is issues that can reduce the company's desire to make a voluntary disclosure of intellectual capital in order to maintain the confidentiality of data and protect themselves from competitors (Vergauwen and Alem, 2005). Because financial information can not reflect all of the changes in the business operating activities (Lev and Zarowin, 1999), it will encourage companies to increase awareness of the importance to manage non-financial information to external parties. Among other financial

information in addition to supplementary information and other reporting tools such as information of corporate social responsibility information, regret, new product launches, bonus programs and so on. Intellectual capital is one of impo2 nt Information to be disclosed as it could significantly increas 22 e value of the company as evidenced in the study by Chen et al. (2005) and Tan et al. (2007).

Information revealed throug 2 the disclosure of intellectual capital will provide more comprehensive information, so, as to reduce assessment by a gainst the company. Bukh (2003) states that the disclosure of intellectual capital will be useful to investors in order to anticipate the uncertain outlook for the future and assist in the assessment of the company better.

One way to measure the level of intellectual capital disclosure is by 42 ng content analysis on knowledge company reports. Guthrie et al. (2004) and Vergauwen et (2007) state that content analysis is the most popular method for measuring the level of intellectual capital clisclosure. This technique is a way to make the data collection code systematic, objective and reliable based on quantitative and qualitative information into predefined categories to get the pattern in the reporting of information (Guthrie et al., 2004). This technique usually produces an index of the level of intellectual capital reporting. This method has been widely used in research

et al. (2009), Guthrie et al. (2004) 11 Vergauwen et al. (2007). The current study will use a contell analysis of the annual report to create an index of disclosure of financial capital in Indonesia. This study adopts content analysis on intellectual capital disclosure practices as used in Li et al. (2008).

There 45: few studies that examine what factors are likely to influence the practice of intellectual capital disclosure. Howe 17, the results of previous studies are still inconsistent. This is in line with the statement of Bruggen et al. (2009) that despite the development of resear in the field of intellectual capital, no results were definite and clear about the factors that become 41 erminant of intellectual capital disclosure. Therefore, it is necessary to study the factors that determined of intellectual capital disclosure.

This study differs from previous studies, previous studies, examined managerial ownership (Bukh et al., 2003) and the concentration of ownership (Li et al., 2008) while this research examines the family as a controlling ownership, ownership of SOEs as a controller and institutional ownership. This study is expected firstly to contribute to the management of the company In detenning what information needs to be submitted related to intellectual capital, so, provide more transparency to investors. Secondly, the findings of this study are important to management as a reference in managing intellectual capital with better and more focused on the new sary components that can contribute to improving the company's performance and its ability to raise funds from the capital market

Theory and hy 30 hesis development

Definition of intellectual capital: The term intellectual capital is often used interchangeably with in tangible assetsas a synonym (Lev, 2001; Meritum et al., 2002; Lev and Zambon, 2003). Up to now there is no definite agreement on the definition of intellectual capital (Guthrie, 2001; Choong, 2008; Man and Adams, 2004). Most of the literature have not clearly described fully the notion of intellectual capital but only gives examples of what items are included as intellectual capital (Itami, 1987; Hall, 1992; Roos et al., 1998). On the other hand, the definition given by other researchers look very diverse. Because diversity is still not agreed upon definition and according to the researchers there is no definition that describes intellectual capital as a whole, so in this study, the researchers propose a specific definition of intellectual capital. The proposed definition is based on various definitions of previous researchers and adapted to the purpose of this research. Intellectual capital is defined as intangible resources such as knowledge, experience, ability to manage relationships, technology and information, skills and professionalism that ar 29 anaged and utilized by management to create value in order to achieve a sustainable competitive advantage for the company.

From the discussion of the various definitions used in explaining the concept of intellectual capital is often an emphasis on several different attributes. Of the various attributes that appear, there are three attributes that have 3 een widely accepted as a component or category of intellectual capital, i.e., human capital, structural capital and relational capital (Stewart, 1 997; Sveiby, 1997; Sullivan, 2000, Lev and Zambon, 2003; Man- and Adams, 2004; Choong, 2008). Though many researchers who adopt any of three categories of intellectual capital, there are some other terms that are more synonymous than the three elements of intellectual capital used frequently. Some researchers use the term internal capital or organizational capital to refer to the structural capital. Relational capital including relationships with customers and other groups outside the company which also shows the external structures. Therefore, relational capitalis also a 'customer capital' or •external capital' . Eclvinsson (1997a, b) 3 ontis (1998) and Sullivan (1998) used the term human capital organizational capital and customer capital. While Stewart (1998) use the term human capital, structural capital and customer capital of this study will also adopt the three categories t 44 have been widely accepted by researchers, namely human capital, structural capital andrelational capital.

Influence of family ownership for control of intellectual capital disclosure: Agency theory states that voluntay disclosure is a form of control mechanism used by the ers to ensure that their actions do not harm the agent Julisen and Meckling, 1976). Meanwhile, Fama and Jensen (1983) state that a company controlled by the family should be more efficient than companies with public ownership, clue to lower monitoring costs than public companies. The majority of companies in Indonesia is controlled by the family and therefore should be more efficient and more clisclosure of intellectual capital clue to the alignment between shareholders and efficiency in terms of supervision. Claessens et al. (2000) found that more than 50 ° 0 of companies in Indonesia are controlled by families. Kim stated that the ownership structure of public companies in Indonesia is still dominated by the family which is the controlling shareholder (ultimate shareholder) because although, there are Foreign ownership but Foreign ownership is also part of the family ownership structure.

In companies with concentrated ownership, agency problems no longer arise between shareholders and management but changed to agency problems between majority shareholder (controlling) the minority shareholders (Claessens et al., 2000). Dominance of family ownership in Indonesia raises new agency problem is the possibilib' of entrenchement made majority shareholders through the management of the minority shareholders. Entrenchment is a desire to master that will ultimately lead to the expropriation of the majority shareholders to minority shareholders. If the ownership on the one hand, the higher will encourage the use of ownership and control that through the management for its interes to the detriment of other shareholders. Claessenset al. (2000) found that the level of expropriation of the minority shareholders will be higher when the controlling shareholder is a family. The results of the study Claessens et al. (2000) showed that as many as 84.6% of managers in large companies in Indonesia appointed by the controlling shareholders. Controlling shareholder with control dominance can influence company policy, including policy disclosures in corporate annual reports. Predicted to public companies in Indonesia with the family controlling areholder will reduce the level of disclosure of intellectual capital in order to cover the actual ability of the company as a form of entrenchment to minority shareholders. Tendency to make the company as a controller to gain more land by way of expropriation of minority shareholders is expected to result in them will only reveal things that feel could benefit themselves. With control held by the owners of this family is expected to provide incentives to entrenchment in the form of reduced disclosure policy for the things that are bad news, so, in total will lower the disclosure in order to maintain the existence of information asymmetry. Intellectual capital information that are of course bad news will be covered by the controller in order to maintain the asymmetry of information as a form of entrenchment to minority shareholders. Therefore, it is alleged that the 4 ompany with the controlling family ownership, the level of intellectual capital disclosure would be less than the company without a controlling family ownership.

This study follows the methods used Siregar and Utama (2008) in classifying the company into a company with the controlling family and the company with which no controlling family. This study predicts that firms with family ownership as the controller will tend to have high levels of disclosure of intellectual capital that is lower than the company without a family ownership as controller:

- HI: intellectual capital disclosure index will be lower for firms with family ownership as controller compared to companies without family ownership as controller
- Hla: human capital disclosure index will be lower for fimms with family ownership as controller compared to companies without family ownership as controller • HIE: structural capital disclosure index will be lower for firms with family ownership as controller compared to companies without family ownership as controller
- Hic: relational capital clisclosure index will be lower for finns with family ownership as controller compared to companies without family ownership as controller

Effect of institutional ownership of intellectual capital disclosure: Agency theory states that the owner of the company can use the voluntal Y disclosure 10 way to monitor the management of the company (Jensen and Meckling, 1976; Fama and Jensen, 1983). Institutional owners usually tend to demand better information than individual owners because it is usually able to pay more for the information obtained. The owner is usually in the form of Institutional investors who are smart and able to process Information better than other investors (Siregar and Utama, 2008). Possible causes of the positive influence, presumably because institutional investors provide rules that require companies to make more disclosures concerning the application of CG compames.

Based on previous research, allegedly institutional ownership will also be pressing for the management of intellectual capital clisclosure higher because as stated institutional investors are able to pay the cost of information is more expensive than other investors (Siregar and Utama, 2008). In line with agency theory, the existence of institutional ownership is relatively able to decrease the amount of intellectual capital disclosures m the annual report. This is because manager has no incentive to reveal more to convince stakeholders about the company's performance. This study predicts that the higher the institutional ownership will fillther enhance the company's intellectual capital disclosure:

- Hz: institutional ownership has a positive effect on intellectual capital disclosure index
- H2a: institutional ownership has a positive in_fluence on human capital disclosure index
- H2b: institutional ownership has a positive in_fluence on structural capital clisclosure index •
 Wc: institutional ownership a positive effect on relational capital disclosure index

Effect of State Ownership (SOE) against intellectual capital disclosure: There are several companies owned by State Owned Enterprises (SOEs) in Indonesia which have different characteristics with other public companies. The company is owned by the state has a responsibility to the owner that is the people in which the activity of the company is much more public scrutiny. SC)Es have CSR obligations (Community Development Partnership Program) in accordance with Decree no. 236/MBU/2003. The role of state enterprises and concern for the environment that is required by the decree may impact on the public spotlight on the financial statements and annual reports that they spend. SOEs tend to require better disclosure than other companies because the companies of this type is required to be more transparent in its reporting. Some studies examine the ownership of SOEs in relation to accounting with different settings. In Indonesia. Examines more specifically the ownership of SOEs to social responsibility disclosure in the public company and shows that the state-owned enterprises are still not ignormg issues of social responsibility disclosure.

As stated at the outset that the SOE is a public company owned by the community, so, it would be a public spotlight. Supposedly this condition will trigger the management of SOEs to provide better information to the public. One form of information that can be done by SOE is intellectual capital disclosure to the public. intellectual capital disclosure than companies that are not controlled by the state (SOEs):

- H.: intellectual capital disclosure index will be higher for firms with state ownership as controller compared to companies without state ownership as a controller
- H3a: human capital disclosure index will be higher for firms with state ownership as controller compared to companies without state ownership as a
 - controller
- H,u: structural capital disclosure index will be higher for firms with state ownership as controller compared to companies without state ownership as a controller
- H3c: relational capital disclosure index will be higher for firms with state ownership as controller compared to companies without state ownership as a controller

MATERIALS AND METHODS

21

Population and sample: The population of this research are public companies listed on the Indonesia Stock hange (IDX). The selected samples must have data on intellectual capital disclosures in the annual reports 2009-2013. Collecting clata for 5 years based on the need for the calculation of several variables that require years of data before and after. Companies in the bank and financial institution sector are excluded.

Data and data sources: This study uses secondary data from company financial reports published from 2008-2014 and annual reports from 2009-2013 obtained from the data source: data center OSIR333 is available in data center economics and Business Faculty of Economics, University of Indonesia and the Library of the Faculty of Economics, University, of Indonesia; Jsx.co.id and capital market reference center on the stock exchange; Indonesian Capital Market Directory (ICLMD).

To obtain the data of the company, such as the amount of debt and total equity of the OST_IS utabase available in the u. To retrieve data 23 closure of intellectual capital will use data from the annual reports of companies listed on the stock exchange 2009-2013 period audited.

Methods of data analysis: To analyze the initial data, we examine first the clescriptive statistics of each variable and its correlation with other variables to see if consistent with the predictions and the data are not outliers. The following linear moderated regression is used to test hypothesis:

$$ICDI_{i,t} = \alpha 0 + \alpha_1 FAM_{i,t} + \alpha_2 INST_{i,t} + \alpha_3 SOEs_{i,t} + \epsilon$$

Where:

lcm, t __Index of intellectual capital disclosure.

Measured usmg the method 5 content analysison each item related intellectual capital contained in the company's annual report by 113 ifying the methods used by Vergauwen et al. (2007) and Li et al. (2008)

FAM, t_ Family ownership is measured 7 sing dummy variable with a given value of I if the firm has a high family ownership and C) o12 wise

INSTI,t __ Institutional ownership measured by a dummy variable with a value of I for companies that have institutional ownership a 12) otherwise

SOB, t_SOE ownership measured by a dummy variable with a value of I for companies that are SC)Es and O otherwise

To examme the effect of each independent variable to each category of intellectual capital disclosure, then Eq. 1, the dependent variable is replaced by the following:

RCDII
$$:= \alpha_0 + \alpha_{10}$$
 FAM +641NST -u:SOEs (3)

$$SCDI_{i,t} = \alpha_0 + \alpha_1 FAM_{i,t+U:INSTI,t} + \alpha_3 SOEs_{i,t+8}$$
 (4)

HCDIi, t human capital disclosure index, measured 5 ing the method of content analysis on each item related intellectual capital contained in the company's annual report by modifying the methods used in Vergauwen et al. (2007) and Li et al. (2008).

SCDII, t structural capital disclosure index, measured using the method of content analysis 2 each item related intellectual capital contained in the company's annual report 1 modifying the methods used in the study (Vergauwen et al., 2007; Li et al., 2008).

RCDIi, t relational capital disclosure index, measured using the method of content analysis 2 each item related intellectual capital contained in the company's annual report 1 modifying the methods used in the study (Vergauwen et al., 2007; Li et al., 2008).

Operationalization wariables

Dependent variable; intellectual capital disclosure: To measure the disclosure of intellectual capital will use Intellectual Capital Disclosure Index (II-DI) as is index will be created with the content analysis of the items of intellectual intellectual disclosure in annual reports. The components used to measure the level of intellectual capital disclosure is a componed drawn from the research of Li et al. (2008). Size disclosure is divided into 3 categories: Human Capital Disclosure (HCDI) which consists of 22 items, the Disclosure of Structural Capital (STCDI) consists of 18 items and disclosure of Relational Capital (RCDI) consisting of 21 items. So that, there will be 61 items to be analyzed.

To create intellectual capital disclosure index, each item will be given a score of I if a company disclosure the items. These scores will then be added together with the rest of the score obtained in each category and is weight by the total items per category to obtain an index for each category. Intellectual capital disclosure index is an index of the total of the three index categories.

Ownership structure

Family ownership (FAM): This study will use the definition of family within a family of companies following the definition used by Siregar (2005), namely: all the individuals and companies whose ownership is registered (ownership >5% shall be recorded) which is not a public company, county, institution finance and the

public (individuals whose ownership is not required to be recorded).

The sample company will als a classified into two groups follow Siregar (2005) that firms with high family ownership and firms with low family ownership. The proportion of is considered to be high and <50% is considered to be low. This variable in measured by dummy variable with a given value of I if the firm has a high family ownership and C) for the other.

Institutional ownership (INST): Institutional ownership will be measured to see whether the sample firms owned by in tutional Investors that the company non-affiliated with financial Institutions such as insurance companies, banks, pension funds and investment banking. This variable is a continuous variable using the total number of ownership by institutions.

Ownership of SOEs: SC)E ownership is obtained from the company's annual report sample wheather there is a State Owned Enterprise or not. This variable is measured using dummy with value of I for state-owned companies and C) otherwise.

RESUTS DISCUSSION

Description of data: The samples used in this study is relatively large, comprising 69 0 0 of the population and the overall sample of companies observed for a total period of 7 years sample firms with outliers are not excluded from the sample using winsorized method. Based on the sample selection procedure used, the samples obtained were 284 compames.

This study also examines the eff of each independent variable which cletennines the disclosure of intellectual capital on the disclosure of any category of intellectual capital disclosure that disclosure of relational capital (RCDI), Capital Disclosure (HCDI) and Structural Capital Disclosure (SCD]). Tes sults on the impact of ownership structure to the disclosure of intellectual capital.

HI-H3 of the study was on the effect of ownership structure on the clisclosure of intellectual capital. H: states 3 at intellectual capital disclosure index will be lower for firms with high family ownership compared to firms with low family ownership. Based on test results obtained estimated coefficients are marked with numbers instead of the initial prediction is positive at 0.0054. t-values for variables influence the ICDI FAM obtained only by 084 which means not statistically significant. These results indicate that the prediction of the existence 1 a negative effect on family ownership on the disclosure of intellectual capital is not evident in this study. Testing H: a about the influence of family

Int. Business Manage., 12 337-345, 2018

ownership on the disclosure of relational capital in the company's annual report shows the results of the estimated coefficient of 0.00043 and t-value of C). 19. These results also show that relational capital clisclosure in this study was not shown to be affected by high family ownership. Test results for Hib on impact of high family ownership on the disclosure of human capital is also not evident in this study because the estimation results obtained coefficients of -0.001 1 and

Int. Business Manage., 12

2018

t-values were not significant at -0.52. Meanwhile, for Hic about the effect of high family ownership of the structural capital disclosure in this study, the results of the estimated coefficient of 0.0041 cla t-value of I .43. It can be compared to the compared to the coefficient of 0.0041 cla t-value of I .43. It can be compared to the coefficient of 0.0041 cla t-value of I .43. It can be compared to the coefficient of 0.0041 cla t-value of I .43. It can be compared to the coefficient of 0.0041 cla t-value of I .43. It can be compared to the coefficient of 0.0041 cla t-value of I .43. It can be compared to the coefficient of 0.0041 cla t-value of I .43. It can be compared to the coefficient of 0.0041 cla t-value of I .43. It can be compared to the coefficient of 0.0041 cla t-value of I .43. It can be compared to the coefficient of 0.0041 cla t-value of I .43. It can be compared to 0.0041 cla t-value of I .43. I

The hypothesis of this study was on the effect of ownership structure on the disclosure of intellectual capital that institutional ownership is predicted to positive effect. The estimation results show the coefficient for INST variable is equal to a positive value is 0.05 with a t value of 3.08 which means significant at the 1% level. It can be concluded t 17 H: is proven research that institutional ownership has a significant positive influence on the disclosure of intellectual capital. Tests on H2a in this study on the effect of institutional ownership on the relational capital disclosure showed significant results at the level of 1% with a coefficient value of 0.0082 and a t-value of 2.87. H2b states that firms with institutional ownership would make the disclosure of human capital is higher than firms without institutional ownership. Results of tests of H2h shows the estimation results of 0.0058 and a t-value of 2.21. this means that H2b proven in this study. Tests on HE in this study results 0.0081 coefficient with a value of 2.25 t. It can be concluded that disclosure of structural capital for the company with institutional ownership is higher than in firms without institutional ownership.

The hypothesis of this study states that intellectual capital disclosure index will be higher for firms with ownership of SOEs compared taking into companies without ownership of SOEs. The test results indicate that the coefficient for the variable 30Es have result of estimate coefficient of 0.044 with a t-value of 3.31 which is statistically significant at the 1% level. Thus this hypothesis can be verified by the data in this study. Tests on H, a in this study on the influence of the ownership of SOEs to relational capital disclosure showed significant results at the level of I % with a coefficient value of O. 0068 and a t-value of I .47. H: b stated that the company with SOEs ownership will do the disclosure of human capital higher than companies without ownership of SOEs. Test results on shows the estimation results of 0.0014 and a t-value of 3.28. This means that H3h proven in this study. Tests on HEC in this study showed results estimation coefficient of 0.016 t-value of 2.80. It can be concluded that the company SOEs ownership has disclosure of structural capital higher than in companies without ownership of SOEs (Table I). 2 (3): 337-345, 2018

Table 1: Summary of testing results model 1

caeff. t-values Canclusion FAM-ICDI 12:14ü.ü8 0.0054 Not significant 0.00043 FAM-RCDI 12:170.19 Not -0.0011 significant FAM-HCDI 0.13-0.52 Not 0.0041 significant 0.025 HIC FAM-SCDI 0.081.43 Ha. 0.0082 INST-ICDI H_{2b} Not significant 0.0058 12 H_{2c} 0.0081 143.08 Significant 0044 INST-RCDI 12:172.87 00:0068 Significant 00:0014 HCDI 0.132.21Significant INST-01016 INST-SCDI 0.082.25 Significant SOE-ICDI 12:143.31 Significant

Prediction Estimation

H3a SOE-RCDI 12:171.47 Not significant SOE-HCDI 0.133.28 Significant H3c SOE-SCDI2.80 Significant

CONCLUSION

This study aimed to examine the effect of three types of ownership structure on the c 20 osure of intellectual capital as the controlling family ownership, i 19 tutional ownership and state ownership as a control. This study was conducted on companies listed on the 20 ck exchange cluring the 5 years from 2009-2013. Based on the results of empirical testing conducted several conclusions can be clrawn as follows:

The level of tamily ownership as the controlling owner no proven effect on the disclosure of intellectual capital. In company 1371 no controlling family ownership as distinct Influence on the level of intellectual capital disclosure than companies without a controlling family ownership. Possible causes no good evidence that differences in the effect of the level of family ownership this is because in this study did not occur entrenchment through reporting mechanisms of intellectual capital from its majority shareholder who is also a high family ownership as a control to the minority shareholders. It was alleged that the owner of the family both as a controller and not the controller has the same view of the disclosure of intellectual capital, so that, they are less concerned with the isolectual capital reports can be seen from the figure that the average level of intellectual capital disclosure In finns with family ownership is still relatively small.

The results of this study prove that higher institutional ownership will increase the company's intellectual capital disclosure. These results are in line with the statement that the institution will tend to sue the owner for more information on companies because they tend to be more intelligent in processing the information obtained in comparison with other investors (Siregar and Utama, 2008).

337-345, 2018

Overall the study found that companies with state ownership as the controller will make disclosure of intellectual capital is higher than the company without state ownership as a control. this shows that the company is owned by the state usually in the public eye, so, it will trigger them to make more efforts to provide information to the owners of their intellectual capital.

LIMITATIONS

27

This study has several limitations that must be considered in interpreting the results of this study and can be used as an opportunity to conduct further research. Some of these limitations include: Intellectual capital disclosure index measurement in primary testing method of content analysis for the entire sample whereas in additional testing using the word countis only performed on most samples only. This leads to unequal sample sizes and few samples for testing by the method of word count, so, the estimation method for different sub-samples of the main testing because the data only slightly.

Subsequent research on intellectual capital disclosure is necessary to use intellectual capital disclosure index measurement of different methods such asword countand was conducted on all samples. this led to the number of samples that are not the same and only a few samples for testing by the method ofword count, so that, the estimation method for the sub-sample different from the main test because the data only slightly.

This research has not separated list of items the disclosure of intellectual capital that is man datory with the voluntary. The possibility that someitems which are used are already required to be disclosed in the company's annual report which is likely to lead to an interpretation of the results of this study are in adequate. Future studies are expected to separate a list of items of intellectual capital disclosure in a category is man datory and the voluntary, so, it will provide interpretation and better benefits.

This study has not considered the possible influence over time from year to year. The use of the data for 5 years in this study is only done with the purpose of expanding the number of observations with the aim that can be estimated with the method of weighted least squares and not to see any difference between the effect of time.

Future studies need to consider the possible influence over time from year to year. Necessary to test that can represent the effect of different time can provide a richer analysis results.

BIPLICATIONS

The results of this study have imp46 tions for the development of science related to the findings 11 this study indicate the need to further research on the determinants of intellectual capital disclosure. The use of the index calculation methodology disclosure of intellectual capital necessary to use methods other than content analysis. Study was able to prove that the different methods is by using the method of word count tumed out to be the results of different studies. Therefore, subsequent research should consider the use of other methods such as word count of this instance.

In examming the intellectual capital must be separated by categories of intellectual capital. The results of this study showed a difference in the results between the categories that led to significant differences in the relationsh 25 befiveen the variables studied. Average index of intellectual capital disclosure m companies listed on the stock exchange was relative 1 small at around 20%. The issuer needs to increase the intellectual capital disclosures in the annual report as an important information for Investors. Financial authority as regulators need to further encourage listed companies to improve their disclosure of intellectual capital. From the test results on the reliability and validity of each itemof intellectual capital disclosure measurements used in this study proved to be valid and reliable. Therefore, for an itemthat is still soluntal Y need for rules that require to be disclosed in the company's annual report. For example, for the category othuman capitalcould be required qualitative descriptions relating to the adva 4 ages/sfrengths of the employees of the company with indicators such as the average age of employees of the company. Other examples such a4 employee productivity can be meas 4ed byoutputper employee or output per hour which shows the added value and efficiency of employees. For the categoryof structural capitalsuch as the regulator may ask the issuer 4 sclose on intellectual property which includes patents, copyrights, trademarks, trade secrets, commercial license rights and other related fields. Research and Development (R&D) wh_ich can refer to a long-tenn activity-oriented business practices of the future for example, the policy of R&D, planning, progress, budget, the level of success of the policy. In the 35 ategory ofrelational capital, regulators can ask the companies listed on the stock exchange to disclose about policies and programs to build relationships with customers such as customer satisfaction surveys and initiatives taken for Improvement, customer complaints management and a variety of activities or indicators that can improve customer relationships such as timely delivery, convenience services and so on. How the company's efforts to obtain new customers how to retain existing customers and includes information about the market share leadership position in the enterprise market.

Based on these results, it tums out there is a difference in the results per category of intellectual capital. Therefore, management companies need to pay more attention to the items or categories which must be improved in terms of disclosure.

SUGGESTIONS

Future studies need to use the data in addition to seconclay data from annual reports and financial statements of the company for example by conducting interviews or questionnaires to measure intellectual capital and competitive strategy. By using primary data is expected to provide a different analysis with the use of secondary data only.

Future studies can distinguish family ownership as a controller which is also an affiliated group or a conglomerate and that is not including the conglomerate group as done by Siregar and Utama (2008). This separation needs to be done to get a more in-depth analysis of the influence of family ownership as a control group which also includes t conglomeration of intellectual capital disclosure.

Future studies should consider the use ofinfonnation extraction calculate the index of intellectual capital disclosure by the method of word countso much easier and can catch all the words associated with disclosure instrument. This method can be carried out in line most likely will impose the use of Extensible Business Reporting Language OGRL) in the company's annual report in which the use of tagging on each keyword that is needed will be directly related to the overall instrument in question, so that, will help the process of counting the number of words to be more simple.

REFERENCES

- Aboody, D. and B. Lev, 2000. Information asymmetry, R&Dand insider gains. J. Finance, 55: 2747-2766.
- Bontis, N., 1998. Intellectual capital: An exploratory study that develops measures and models. Manage. Decis., 36: 63-76.
- Botosan, C.A., 1997. Disclosure level and the cost of equity capital. Accounting Rev., 72: 323-349.
- Bruggen, A., P. Vergauwen and M. Dao, 2009.
 Determinants of intellectual capital disclosure:
 Evidence from Australia. Manage. Decis., 47: 233-245.

- Bukh, P.N., 2003. The relevance of intellectual capital disclosure: A paradox?. Accounting Auditing Accountability J., 1 6: 49-56.
- Chen, M.C., S.J. Cheng and Y. Hwang, 2005. An empiHcal investigation of the relationship between declined capital and finns' market value and financial performance. J. Intell. Capital, 6 159-176.
- Choong, K.K., 2008. Intellectual capital: Definitions, categorization and reporting models. J. Intellectual Capital, 9: 609-638.
- Claessens, S., S. D_iank-ov and L.H.P. Lang, 2000. The separation of ownership and control in East Asian corporations. J. Financial Econ., 58: 81-112.
- Edvinsson, L., 1997a. Developing intellectual capital at Skandia. Long Range Plann., 30: 366-373.
- Edvisson, L., 1997b. Intellectual Capital: Realizing Your Company's True Value by Finding its Hidden Brainpower. HarperCollins Publishers, New York, USA., ISBN:9780887308413, Pages: 240.
- Fama, E.F. and M.C. Jensen, 1983. Separation of ownership and control. J. Law Econ., 26: 301-325.
- Guthrie, J., 2001. The management, measurement and the reporting of intellectual capital. J. Intellectual 33 Capital, 2: 27-41.
- Gut 143, J., R. Petty, R. Yongvanich and F. Ricceri, 2004. Using content analysis as a research method to inquire into intellectual capital reporting. J. Intellectual Capital, 282-293.
- Hall, R., 1992. The strategic analysis of intangible resources. Strat. Manage. J., 13: 135-144.
- Itami, H. and T. Roehl, 1987. Mobilizing Invisible Assets. Harvard Universib, Press, Cambridge, _NLA.
- Jensen, M.C. and W.H. Meckling, 1976. Theory of the firm: Managerial behavior, agency costs and ownership structure. J. Financial Econ., 3: 305-360.
- Lev, B. and P. Zarowin, 1999. The boundaries of financial reporting and how to extend them. J. Account. Res., 37: 353-385.
- Lev, B. and S. Zambon, 2003. Intangibles and intellectual capital: An introduction to a special issue. Eur. Accounting Rev., 12: 597-603.
- Lev, B., 2001. Intangibles Management, Measurement and Reporting. Brookings Institution Press, Washington. DC., USA Pages: 216.
- Li, J., R. Pike and R. Haniffa, 2008. Intellectual capital disclosure and corporate governance structure in UK firms. Accounting Bus. Res., 38: 137-159.
- Marr, B. and C. Adams, 2004. The balanced scorecard and intangible assets: Similar ideas, unaligned concepts. Measuring Bus. Excellence, 8: 18-27.
- Meritum, P., L. Canibano, P. Sanchez, M. Garcia-Ayuso and C. Chaminade, 2002. Guidelines for managing

- and reporting on intangibles (intellectual capital report). Vodafone Foundation, Madrid, Spain. http://wwM'.pnbukh.com/files/pdf filer/MERITUM_Guidelines.pdf.
- Roos, J., G. Roos and L. Edvinsson and N.C. Dragnoetti, 1998. Intellectual Capital Navigating the New Business Landscape. New York University Press, New York, USA., ISBN:9780814775127, Pages: 143.
- Sengupta, P., 1998. Corporate disclosure quality and the cost of debt. Account. Rev., 73: 459-474.
- Siregar, S.V. and S. Utama, 2008. Type of earnings management and the effect of ownership structure, finn size, and corporate-governance practices: Evidence from Indonesia. Int. J. Accounting, 43: I -27.
- Siregar, V.S., 2005. Effect of ownership structure, corporate size and practice of corporate governance on earnings management and market assessment fallacy. Master Thesis, University of Indonesia, Depok, Indonesia.
- Stewart, T.A., 1997. Intellectual Capital: The New Wealth of Organizations. Nicholas Brealey, Boston, Massachusetts, USA., ISBN:9781857881820, Pages: 261.
- Stewart, T.A., 1998. Intellectual Capital: The New Wealth of Organizations. 2nd Ecln., Nicholas Brealey Publishing, Boston, Massachusetts, USA., ISBN:9781857881837, Pages: 278.
- Sullivan, P.H., 1998. Profiting from Intellectual Capital, Extracting Value from Innovation. John Wiley & Sons, Hoboken, New Jersey, CSA., Pages: 369.
- Sullivan, P.H., 2000. Value-Driven Intellectual Capital: How to Convert Intangible Corporate Assets into Market Value. Wiley, New York, CSA., ISBN:9780471351 Pages: 276.
- Sveiby, K.E., 1997. The New Organizational Wealth: Managmg and Measurmg Knowledge-Based Assets. 1st Edn., Benett-Koehler Publishers, San Francisco, CA., USA., ISBN-13: 9781576750148, Pages: 220.
- Tan, H.P., D. Plowman and P. Hancock, 2007. Intellectual capital and financial returns of companies. J. Intell. Capital, 8: 76-95.
- Vergauwen, P., L. Bollen and E. C)irbans, 2007. Intellectual capital disclosure and intangible value drivers: An empirical study. Manage. Decis., 45: 1163-1180.
- Vergauwen, P.G. and F.J. V. Alem, 2005. Annual report IC disclosures m the Netherlands, France and Germany. J. Intellectual Capital, 6 89-1 (14.

The impact of ownership structure on intellectual capital disclosure

ORIGINALITY REPORT

16%

7%

14%

4%

SIMILARITY INDEX INTERNET SOURCES

PUBLICATIONS

STUDENT PAPERS

PRIMARY SOURCES

"Factors Affecting the Intellectual Capital Disclosure Index: Evidence from Indonesian listed Companies", International Journal of Recent Technology and Engineering, 2019

3%

- Publication
- Juan Barus Gultom, Itjang. D. Gunawan.
 "Intellectual Capital Disclosure, Good Corporate
 Governance and Firm Performance: Asean
 Cross Country Analysis", European Journal of
 Business and Management Research, 2020
 Publication

2%

issuu.com

1%

- Internet Source
 - Jing Li, Richard Pike, Roszaini Haniffa.
 "Intellectual capital disclosure and corporate governance structure in UK firms", Accounting and Business Research, 2008

1 %

Publication

5

Adam Zakaria, Marsellisa Nindito, Eno

	Firmansa. "The influence of characteristics of the board of commissioners, audit committee meetings and auditor type on intellectual capital disclosure", Pressacademia, 2018 Publication	1%
6	Submitted to Universitas Prasetiya Mulya Student Paper	1%
7	Siregar, S.V "Type of earnings management and the effect of ownership structure, firm size, and corporate-governance practices: Evidence from Indonesia", International Journal of Accounting, 200803 Publication	1%
8	Mahmoud Al-Akra, Patrick Hutchinson. "Family firm disclosure and accounting regulation reform in the Middle East: The case of Jordan", Research in Accounting Regulation, 2013 Publication	<1%
9	Submitted to Institute of Graduate Studies, UiTM Student Paper	<1%
10	www2.accountancy.smu.edu.sg Internet Source	<1%
11	sibresearch.org Internet Source	<1%
12	Fabrizio Cerbioni, Antonio Parbonetti. "Exploring	<1 _{0/}

the Effects of Corporate Governance on

Firmansa. "The influence of characteristics of

Intellectual Capital Disclosure: An Analysis of European Biotechnology Companies", European Accounting Review, 2007

Publication

13	iasir.net Internet Source	<1%
14	Nilupa Udawatta, Jian Zuo, Keri Chiveralls, George Zillante. "Attitudinal and behavioural approaches to improving waste management on construction projects in Australia: benefits and limitations", International Journal of Construction Management, 2015 Publication	<1%
15	Submitted to Sheffield Hallam University Student Paper	<1%
16	Maria Assunta Baldini, Giovanni Liberatore. "CORPORATE GOVERNANCE AND INTELLECTUAL CAPITAL DISCLOSURE. AN EMPIRICAL ANALYSIS OF THE ITALIAN LISTED COMPANIES", Corporate Ownership and Control, 2016 Publication	<1%
17	Submitted to Heriot-Watt University Student Paper	<1%
18	www.neliti.com	<1%

19	Submitted to Universitas Sultan Ageng Tirtayasa Student Paper	<1%
20	Farhad Shahveisi, Farshid Khairollahi, Mohammad Alipour. "Does ownership structure matter for corporate intellectual capital performance? An empirical test in the Iranian context", Eurasian Business Review, 2016 Publication	<1%
21	www.journalmabis.org Internet Source	<1%
22	Journal of Intellectual Capital, Volume 12, Issue 4 (2011-10-29) Publication	<1%
23	www.scribd.com Internet Source	<1%
24	eprints.uwe.ac.uk Internet Source	<1%
25	medwelljournals.com Internet Source	<1%
26	Sugumar Mariappanadar, Alma Kairouz. "Influence of human resource capital information disclosure on investors' share investment intentions", Personnel Review, 2017 Publication	<1%

27	emrbi.org Internet Source	<1%
28	Mishari M. Alfraih. "The value relevance of intellectual capital disclosure: empirical evidence from Kuwait", Journal of Financial Regulation and Compliance, 2017 Publication	<1%
29	Gregorio Martín de Castro, Miriam Delgado Verde, Pedro López Sáez, José Emilio Navas López. "Technological Innovation", Springer Science and Business Media LLC, 2010 Publication	<1%
30	José Maria Viedma Marti, Maria do Rosário Cabrita. "Entrepreneurial Excellence in the Knowledge Economy", Springer Science and Business Media LLC, 2012 Publication	<1%
31	Submitted to Waikato University Student Paper	<1%
32	www.intellectualcapital.nl Internet Source	<1%
33	www.afaanz.org Internet Source	<1%
34	www.medwelljournals.com Internet Source	<1%

35	link.springer.com Internet Source	<1%
36	Blaise M. Sonnier, Kerry D. Carson, Paula Phillips Carson. "Intellectual capital disclosure by traditional US companies: a longitudinal assessment", Journal of Accounting & Organizational Change, 2008 Publication	<1%
37	onlinelibrary.wiley.com Internet Source	<1%
38	www.ijbs.unimas.my Internet Source	<1%
39	Vladimir Dzenopoljac, Chadi Yaacoub, Nasser Elkanj, Nick Bontis. "Impact of intellectual capital on corporate performance: evidence from the Arab region", Journal of Intellectual Capital, 2017 Publication	<1%
40	docplayer.net Internet Source	<1%
41	mafiadoc.com Internet Source	<1%
42	Journal of Intellectual Capital, Volume 13, Issue 1 (2012-01-07) Publication	<1%

44

Yu-Shan Chen, Ming-Ji James Lin, Ching-Hsun Chang. "The Influence of Intellectual Capital on New Product Development Performance – The Manufacturing Companies of Taiwan as an Example", Total Quality Management & Business Excellence, 2006

<1%

Publication

45

Siti Mariana Taliyang. "Intellectual Capital Disclosure and Corporate Governance Structure: Evidence in Malaysia", International Journal of Business and Management, 11/30/2011

<1%

Publication

46

Journal of Intellectual Capital, Volume 16, Issue 3 (2015)

<1%

Publication

47

Chiara Demartini, Sara Trucco. "Integrated Reporting and Audit Quality", Springer Science and Business Media LLC, 2017

<1%

Publication

Exclude quotes

On

Exclude matches

Off