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Int. J. Sup. Chain. Mgt Vol. 9, No. 3, June 2020 455 Impact of Corporate Governance in Supply Chain Management Istianingsih1* 1 Universitas Bayangkara Jakarta Raya; my.manuscript01@gmil.com Abstract Collaborative governance plays a critical role in guiding the whole supply chain to achieve its strategic goals. This study aims to examine the impact of information provided via the disclosure of intellectual capital on the cost of equity capital. It also examines the effect of good corporate governance on the relationship between intellectual capital disclosure and supply chain. It examines firms listed on the Indonesian stock exchange for period 2013 to 2015.

Data were analyzed using moderated regression analysis. Results show that intellectual capital affects the increase of cost of capital. Good corporate governance variable has significant positive effect on cost of capital. Corporate governance could serve as a determinant that influences capital expenditures by investors. The cost of capital is negatively affected by the interaction between intellectual capital disclosure index and good corporate governance. This means that the negative impact of intellectual capital disclosure index on cost of capital is negatively moderated by good corporate governance.

Finally it can be concluded that supply chains face increased pressure from stakeholders to incorporate a plethora of corporate responsibility and sustainability aspects Keywords Supply Chain Management, Collaborative Governance, Cost of capital, Disclosure. 1. Introduction Essentially, SCM is the management or governance of inter-organizational relationships. It is widely acknowledged that without appropriate governance mechanisms, supply chain collaboration is always short-lived and doomed to failure In the current era of knowledge-based and technology-based economies, companies are required to allocate more investment in research and development, employee training, and superior new technologies [1]. Around 50% to 90% of the value created by the firm in this era is the result of the management of intellectual capital [2].

This is in line with the statement of [3] that about 75% of the company's market value in

America is the result of intangible assets. Thus, the role of intellectual capital in the acquisition of corporate value in this era of knowledge and globalization is enormous. Since 1990, attention to intangible assets management practices has been increasing widely. One approach used in the assessment and measurement of intangible assets is the intellectual capital that has become the focus of attention in various fields, such as management, information technology, sociology, and accounting [4].

Some studies indicate that intellectual capital plays a significant role in the improvement of corporate value, among others, [5-8]. By having a strong and well-managed intellectual capital, the company will be able to anticipate future environmental uncertainty. If the company provides intensive and sustainable training and employee skills development, applying adequate information technology, and maintaining good relationships with customers and suppliers, it will be able to anticipate the possibility the entry of new competitors. If one day a new competitor enters, then the company should be able to survive because of the support of intellectual capital.

[3] argue that intellectual capital plays an important role in preparing the company's competitive strategy advantage. The empowerment of intellectual capital not only improve performance from within the company but also gain investor confidence in the ability of the company. [6] posit that if the market is efficient, then investors will give higher value to firms with higher intellectual capital.

The financial statements are unable to reflect the ownership of the intangible assets so as to increase the investment risk thereby eliminating investor confidence [9] and [10]. the company's intellectual capital had an effect on the company's future performance as measured by stock return change one year ahead. On the one hand, there are problems as intellectual capital is difficult to measure and cannot be reported in the company's financial statements.

One way that can be done is to provide information about this

International Journal of Supply Chain Management IJSCM, ISSN: 2050-7399 (Online), 2051-3771 (Print) Copyright © ExcelingTech Pub, UK (<http://excelingtech.co.uk/>) Int. J. Sup. Chain. Mgt Vol. 9, No. 3, June 2020 456 intellectual capital to investors through voluntary respect, [11] state that the disclosure of one aspect of intellectual capital i.e., human capital proved to have a significant impact on stock returns of 1 year or 5 years later.

Study by [12] analyzes the reporting of intellectual capital on the 20 best companies in Australia and show that the capital is critical to achieving success in the face of future competition. voluntary reporting of intellectual capital by firms in Australia and Hong

Kong. Their results indicate that the level of intellectual capital disclosure is quite low qualitatively in both Australia and Hong Kong. Another factor that is also proven to increase good corporate governance (GCG). The influence of corporate governance on corporate value is due to agency problems within the company arising as a result of the separation of control and ownership.

This separation creates a conflict of interest that value. Implementation of GCG within the company is expected to reduce the agency problem, so in the end it is expected to increase the value of the company. Some empirical studies that examine the relationship of corporate governance practice and the value or performance of the firm try to accommodate some components of corporate governance practice by developing and/or using an index or corporate governance practice ranking. The corporate governance index or rank is a scoring based on the quantification of the evaluation of corporate governance components in the enterprise.

The index score or corporate governance rating is then tested in relation to the performance or value of the firm. One study, [14], find that the implementation of corporate governance can affect the stock returns. The other study by [15] show that the corporate governance index is positively correlated with the operational performance and market valuation. Other studies by [16-20], report almost similar to those of [15]. The quality of accounting information can reduce the information risk so that in the end it will also reduce the cost of equity capital.

Previous studies, for example [21-26] have shown a negative relationship between information quality and cost of equity capital. The argument behind this intuition is that improving the quality of information will lower the information asymmetry. Reduced information asymmetry and increased stock liquidity would lower transaction costs that will ultimately lower cost of equity capital, see for example [27-29]. This study examines the impact of information provided via the disclosure of intellectual capital on the cost of equity capital. It also examines GCG as a factor affecting the relationship between intellectual capital disclosure and capital cost.

This research is important given the important role of intellectual capital in corporate development and the delivery of intellectual capital information to investors in order to reduce capital costs due to the existence of information asymmetry. The role of GCG as a monitoring tool for corporate managers will also be examined by including the role of GCG in moderating the relationship between intellectual capital information disclosure and capital cost. The results of this study are expected to contribute to the development and management of intellectual capital in Indonesia. [28]. 2. Literature Review 2.1

Agency Theory Supply chains face increased pressure from stakeholders to incorporate a plethora of corporate responsibility and sustainability aspects in their - legal demands are dynamically changing; almost no industry, supply chain, organization, and an organizational function are unaffected. Owing to the outsourcing wave of the last decade, in particular purchasing and supply management (PSM) plays an ever more important role in assuring sustainable supply chains in the marketplace. As shown in [29], the agency theory assumes that all individuals act on their behalf. under which one or more persons (the principal(s)) engage another person (the agent) to perform some service on their behalf which involves delegating 5).

The agency relationship between agent and principal within the company can occur for example, between managers and shareholders or bondholders, between majority shareholders and minority shareholders, and between managers and suppliers. *Int. J. Sup. Chain. Mgt* Vol. 9, No. 3, June 2020 457 In the contract theory or agency theory, the group of interested parties and each party has rights as stated in their respective contracts, see [29] and [30]. Each individual in this contract has an incentive to maximize their respective interests, resulting in agency costs that can reduce firm value [31].

Firms often differ in quality, whether in the form of goods and services, information, and investment opportunities, or in the securities of their entity-in the form of stocks, bonds, or other valuable securities [12]. Given the asymmetry of information occurring in the capital market, those with more information (e.g., insiders) will take advantage of the opportunity to gain higher returns than the less well informed parties. To reduce information asymmetry, and to differentiate high quality firms from other low quality companies, high-type managers send signals in the form of information to the market [12].

A signal can be -type manager that would not be rational if that low- Signal mechanisms can be diverse, such as signals conveyed by high-quality managers in the form of more informative intellectual capital disclosures. 2.2 Intellectual Capital Disclosures and Cost of Capital Disclosure of information in the annual reports is expected to reduce information asymmetry and also reduce agency problem [13]. Theoretically, increased disclosure by firms can lower transaction costs thus increasing stock liquidity and decreasing uncertainty as well as reducing the adverse selection issues [28].

Better voluntary disclosure will also improve market performance [15]. The decision to disclose additional information must be based on the cost-benefit considerations. The company may provide information to stakeholders regarding the operations of activities and the impact of these activities. One of the company's erating activities is the disclosure of the company's intellectual capital. Good disclosures are expected to reduce

the information asymmetry between management and investors so as to reduce the company's cost of capital [21]. Somstad indicates positive **influence of voluntary disclosure** that is lowering cost of capital [21].

Thus, better intellectual capital disclosures will decrease **the cost of capital**. This argument leads to the following hypothesis. H1: Intellectual capital disclosures **lower the cost of capital**. 2.3 Good Corporate Governance, Intellectual Capital Disclosures and Cost of Capital Corporate governance is one of the mechanisms aimed at minimizing agency conflicts by aligning relationships among stakeholders to determine the direction and control of the company performance. How the owner can monitor and control the decisions and actions of the top managers will influence the implementation of corporate strategy.

Effective corporate governance will **align the interests of managers and owners** so as to produce a competitive advantage for the company. The principles of GCG are fairness, transparency, accountability, and responsibility. Justice with respect to fairness and equality of the treatment of minority shareholders to be protected from fraud, trafficking and abuse by insiders (self-dealing or insider wrongdoing). Transparency is carried out through accurate and timely disclosure of company performance information. Management accountability is exercised through effective oversight based on the balance of power between supervisors, managers, shareholders, and auditors.

company as a member of society to obey the law and to act wisely in the environment **in which it operates**. According to the agency theory, GCG mechanisms and voluntary disclosure **can be used to** protect investors and reduce conflicts of interest between owners and agents. This theory also states that disclosure will lower agency costs [29]. GCG mechanisms will be able to pressure managers to better disclose information. Voluntary disclosure will **reduce information asymmetry and** will ultimately have an impact on capital cost reductions.

This negative impact will also depend on the company's management condition. If the company is well managed, this condition will strengthen the impact of intellectual capital disclosure on the reduction of capital costs. Thus the following hypothesis is proposed. H2: Good corporate governance reduces the effect of intellectual capital disclosures on cost of capital **Int. J. Sup. Chain. Mgt** Vol. 9, No. 3, June 2020 458 3. Methods 3.1 The Model **In order to manage supply chain risks, supply management must** ensure that their local and international practices and relationships comply and that environmental and social misconducts do not occur, while maintaining profitability.

The proposed framework (Figure 1) highlights the capabilities and governance

mechanisms. This is mainly due to the need to creating a strategic fit between supply chains and the continually changing supply chain risks. This research will use multiple regression analysis method with moderated regression analysis (MRA) technique. The analysis technique of moderated regression analysis (MRA) is an analysis to find out the relationship of influence between a variable to other variables where there are moderation variables that influence the relationship between independent variable to dependent variable as stated in the research design in the previous section. The following model is used to test the hypotheses. $COC = COC$ is the cost of capital measured using the Ohlson model [14].

This measured as issued in a number of studies, for example [2]. ICDI is the intellectual capital disclosures index measured using the content analysis based on [17]. Previous studies, [1], also use this measure. GCG is good corporate governance index measured using the Indonesia of corporate governance rating agency, Size is the size of the firm measured as the natural logarithm of total assets. Previous studies, [13], also employ this measure. LEV is leverage measured as the ration of total debts over total assets. This variable is used in [11].

Figure 1: supply chain and god governance Population The population used in this study are manufacturing companies listed on the Indonesia Stock Exchange over the period of 2013-2015. The sample is determined using the following criteria company does not engage in any corporate actions during the period of analysis, such as merger or acquand company's report accessible. Company with outlier data will be excluded. Sample Based on the criteria of the sample selection, a total of 83 companies were selected. The sample selection procedure can be seen in Table 1. Table 1. Selection of Sample Process No.

Description Tot al 1 Company meeting the first two criteria 90 90 2 Company with outliers data 7 Final sample 83 83 4. Result and Discussion Result Supply management governance In this study, the vehicle to strengthening the capacity of a supply chain to ensure ecological resilience is proposed to be via supply management governance; i.e., structures and processes intended to coordinate and integrate various dimensions of the supply management. Governance represents the structures and processes by which societies share power, also shapes individual and collective actions.

Firms should be deliberate in devising and implementing appropriate supply management governance Int. J Sup. Chain. Mgt Vol. 9, No. 3, June 2020 459 mechanisms to safeguard against such market imperfections and supply chain uncertainties. Such governance mechanisms make it possible to achieve supply chain ecological resilience, thus enabling the firm to adapt rapidly while retaining coherence even as its supply

chain continues to expand. Table 2 presents the descriptive statistics of variables examined in the study. As can be seen in the table, the intellectual capital disclosure index ranges from 0.0329 to 0.3406, with an average of 0.2044.

This indicates that there is a relatively low index value among the companies examined in this study. Table 2. Descriptive Statistics of Variables

Variables	Minimum	Maximum	Mean	Standard Deviation
ICDI	0.0329	0.3406	0.2044	0.0679
ICG	0.5101	0.7975	0.6166	0.2133
ICDI*ICG	0.0211	0.2218	0.1317	0.0737
Size	17.4813	28.4638	25.9840	2.9141
Lev	0.0977	0.7985	0.4086	0.1823
CoC	-0.9853	2.1849	0.1160	0.7787

Similar results are reported for GCG index of which the average is 0.6166. This figure is considerable low. In terms of leverage, on average, the companies in this study have a total debt of half of their assets. The cost of capital interestingly has a negative value. This seems to be strange. In addition, the maximum cost of capital is higher than 100 percent.

This is also strange. Table 3. Summary of Results of Hypotheses Testing

Variables	Predicted sign	Coefficient	t-value	p-value	Constant
ICDI	negative	-3.136	-2.921	0.005	0.772
ICG	negative	2.177	2.659	0.033	0.010
ICDI*ICG	negative	0.033	-0.851	0.401	-2.637
Size	negative	0.250	2.369	0.020	-0.005
Lev	positive	-0.005	-0.045	0.964	0.582

R² (Adj. R²) 0.582 (0.339) F-Stat (F-sig) 4.158 (0.000) The results of hypotheses testing are presented in Table 3. As can be seen in Table 3, hypothesis one (H1) cannot be accepted as the sign is positive, whilst the study predicts it shall be negative. This finding is interesting given more disclosures are associated with higher cost of capital.

Similar finding is reported for the good corporate governance index. A positive coefficient is generated. Discussion The effect of Intellectual Capital Disclosure on Cost of Capital The results of statistical tests showed that ICDI variables have a positive effect on the COC. This means that high corporate intellectual capital disclosure would increase the cost of capital, which intellectual capital can make the financial statements presented by the company more transparent and influence the investor's estimate of the risks that exist in the company. Examining the relationship of intellectual capital disclosure on the cost of capital would help managers to understand the impact of applying intellectual capital on corporate finance.

The results of this study are consistent with [12] who find evidence that the greater the level of accounting disclosure done by the company accompanied by good information, the lower the cost of capital. Moderating Effect of Good Corporate Governance on the Relationship between Intellectual Capital Disclosure and Cost of Capital The results of this study indicates that good corporate governance has a significant negative effect in moderating the influence of ICDI on cost of capital. The results of this study prove that GCG is a moderating variable.

The effect of ICDI*ICG on cost of capital relationship is inversely proportional, whereas the higher ICDI*ICG value, the lower the cost of capital value. This condition reflects that GCG exercises good control over managers so that it can lower the capital cost incurred by investors. This study uses company size control variables (Size) and debt ratio (Leverage). Many intellectual capital disclosures are often associated with firm size. The bigger the company, the lower will be the cost of capital.

Conversely with leverage ratio, companies that have a high leverage will do a lot of disclosure that will eventually lower the cost of capital. The results of this study show size has positive and significant coefficient. This is strange as we expect that larger firm will be associated with lower cost of capital. This is consistent with research conducted by [23, 25]. Yet, the finding reported here is inconsistent with the one of [14]. The coefficient of leverage is insignificant. So, we may conclude that leverage level is not related to the level of cost of capital. This means that neither companies with high leverage or low leverage have no effect on intellectual capital disclosure with cost of capital issued by the company.

5. Conclusion This paper aims to analyze the role of good corporate governance in supply chain management for coping with bad working conditions in factories in developing economies and related environmental problems. Based on the discussion the following conclusions are generated. Intellectual capital disclosure index has significant positive effect on the cost of capital. The interaction between intellectual capital disclosure index and good corporate governance generates negative and significant effect on cost of capital.

The finding reported here clearly imply that good corporate governance can serve as a moderating variable that reduces the negative impact of intellectual capital disclosure index on cost of capital. Good corporate governance has significant positive effect on cost of capital. This means that corporate governance can serve as a determinant variable affecting the cost of capital. Limitations and the suggestions that can be offered based on the limitations of this study are as follows. This study uses a sample of manufacturing companies with two years of observation.

Further research is suggested to use longer observation period, to produce more accurate in showing the implications that exist mainly related to the disclosure made by the company. This study uses the Ohlson's model as a proxy to measure cost of capital. Further study may use other proxies such as weighted average cost of capital or Residual Income Model. References [1] L. Canibano, M. Garcia-Ayuso, and P. managerial implications of intangibles: A literature review, vol. 19, no. 102-130, 2000. [2] Harv. Bus.

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Date: 1st September, 2019

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For sections A & B, please tick a number from 0 to 5, where 0 = strongly disagree and 5 = strongly agree.

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B. Communications aspects

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C. Comments to the authors (You may use another sheet of paper.)

I suggest introducing the motivation of the work and the framework in which it has been carried out (without going into excessive details) in this section, and include the objectives of the work clearly. I would create another section to focus on explaining other similar experiences and related studies that will allow the authors to contrast the results. Theoretical framework could be grouped in a section.

The principles of GCG are fairness, transparency, accountability, and responsibility. Justice with respect to fairness and equality of the treatment of minority shareholders to be protected from

fraud, trafficking and abuse by insiders (self-dealing or insider wrong doing). Transparency is carried out through accurate and timely disclosure of company performance information. Management accountability is exercised through effective oversight based on the balance of power between supervisors, managers, shareholders, and auditors. The company's responsibilities relates to the company as a member of society to obey the law and to act wisely in the environment in which it operates.

According to the agency theory, GCG mechanisms and voluntary disclosure can be used to protect investors and reduce conflicts of interest between owners and agents. This theory also states that disclosure will lower agency costs. GCG mechanisms will be able to pressure managers to better disclose information. Voluntary disclosure will reduce information asymmetry and will ultimately have an impact on capital cost reductions. This negative impact will also depend on the company's management condition. If the company is well managed, this condition will strengthen the impact of intellectual capital disclosure on the reduction of capital costs.

D. Recommendation (Tick one)

1. Accepted without modifications.
2. Accepted with minor corrections.
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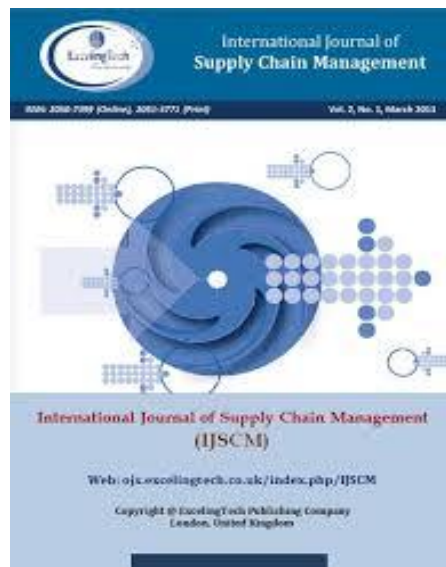
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Dear **Istianingsih** :

Congratulations!

Your Manuscript entitled “**Impact of Intellectual Capital Disclosure on the Cost of Capital: The Role of Good Corporate Governance** ” has been accepted for volume 9, No. 1 of *International Journal of Supply Chain Management (IJSCM)* [ISSN 2050-7399 (Online), 2051-3771 (Print)] that would be published on February 2020.

Your Journal paper would be indexed in **Scopus (Elsevier)**, DOAJ, EBSCO, Google Scholar, Scirus, GetCited, Scribd, Citeseerx, Newjour and so on.

We look forward to receiving your subsequent research papers.

Best Regards,

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Impact of Corporate Governance in Supply Chain Management

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Abstract— Collaborative governance plays a critical role in guiding the whole supply chain to achieve its strategic goals. This study aims to examine the impact of information provided via the disclosure of intellectual capital on the cost of equity capital. It also examines the effect of good corporate governance on the relationship between intellectual capital disclosure and supply chain. It examines firms listed on the Indonesian stock exchange for period 2013 to 2015. Data were analyzed using moderated regression analysis. Results show that intellectual capital affects the increase of cost of capital. Good corporate governance variable has significant positive effect on cost of capital. Corporate governance could serve as a determinant that influences capital expenditures by investors. The cost of capital is negatively affected by the interaction between intellectual capital disclosure index and good corporate governance. This means that the negative impact of intellectual capital disclosure index on cost of capital is negatively moderated by good corporate governance. Finally it can be concluded that supply chains face increased pressure from stakeholders to incorporate a plethora of corporate responsibility and sustainability aspects in their constituents' business practices.

Keywords— Supply Chain Management, Collaborative Governance, Cost of capital, Disclosure.

1. Introduction

Essentially, SCM is the management or governance of inter-organizational relationships. It is widely acknowledged that without appropriate governance mechanisms, supply chain collaboration is always short-lived and doomed to failure. In the current era of knowledge-based and technology-based economies, companies are required to allocate more investment in research and development, employee training, and superior new technologies [1]. Around 50% to 90% of the value created by the firm in this era is the result of the management of intellectual capital [2]. This is in line with the statement of [3] that about 75% of the company's market value in America is the result of intangible assets. Thus, the role of intellectual capital in the

acquisition of corporate value in this era of knowledge and globalization is enormous.

Since 1990, attention to intangible assets management practices has been increasing widely. One approach used in the assessment and measurement of intangible assets is the intellectual capital that has become the focus of attention in various fields, such as management, information technology, sociology, and accounting [4]. Some studies indicate that intellectual capital plays a significant role in the improvement of corporate value, among others, [5-8].

By having a strong and well-managed intellectual capital, the company will be able to anticipate future environmental uncertainty. If the company provides intensive and sustainable training and employee skills development, applying adequate information technology, and maintaining good relationships with customers and suppliers, it will be able to anticipate the possibility the entry of new competitors.

If one day a new competitor enters, then the company should be able to survive because of the support of intellectual capital. [3] argue that intellectual capital plays an important role in preparing the company's competitive strategy advantage.

The empowerment of intellectual capital not only improve performance from within the company but also gain investor confidence in the ability of the company. [6] posit that if the market is efficient, then investors will give higher value to firms with higher intellectual capital. The financial statements are unable to reflect the ownership of the intangible assets so as to increase the investment risk thereby eliminating investor confidence [9] and [10]. In addition, [7] show that the company's intellectual capital had an effect on the company's future performance as measured by stock return change one year ahead. On the one hand, there are problems as intellectual capital is difficult to measure and cannot be reported in the company's financial statements. One way that can be done is to provide information about this

intellectual capital to investors through voluntary disclosure in the company's annual report. In this respect, [11] state that the disclosure of one aspect of intellectual capital i.e., human capital proved to have a significant impact on stock returns of 1 year or 5 years later. Study by [12] analyzes the reporting of intellectual capital on the 20 best companies in Australia and show that the company's overall emphasis is that intellectual capital is critical to achieving success in the face of future competition. In addition, [13] examine the voluntary reporting of intellectual capital by firms in Australia and Hong Kong. Their results indicate that the level of intellectual capital disclosure is quite low qualitatively in both Australia and Hong Kong.

Another factor that is also proven to increase investor's assessment of corporate performance is good corporate governance (GCG). The influence of corporate governance on corporate value is due to agency problems within the company arising as a result of the separation of control and ownership. This separation creates a conflict of interest that will ultimately negatively affect the company's value. Implementation of GCG within the company is expected to reduce the agency problem, so in the end it is expected to increase the value of the company. Some empirical studies that examine the relationship of corporate governance practice and the value or performance of the firm try to accommodate some components of corporate governance practice by developing and/or using an index or corporate governance practice ranking.

The corporate governance index or rank is a scoring based on the quantification of the evaluation of corporate governance components in the enterprise. The index score or corporate governance rating is then tested in relation to the performance or value of the firm. One study, [14], find that the implementation of corporate governance can increase the company's stock returns. The other study by [15] show that the corporate governance index is positively correlated with the operational performance and market valuation. Other studies by [16-20], report almost similar to those of [15].

The quality of accounting information can reduce the information risk so that in the end it will also reduce the cost of equity capital. Previous studies, for example [21-26] have shown a negative relationship between information quality and cost

of equity capital. The argument behind this intuition is that improving the quality of information will lower the information asymmetry. Reduced information asymmetry and increased stock liquidity would lower transaction costs that will ultimately lower cost of equity capital, see for example [27-29].

This study examines the impact of information provided via the disclosure of intellectual capital on the cost of equity capital. It also examines GCG as a factor affecting the relationship between intellectual capital disclosure and capital cost. This research is important given the important role of intellectual capital in corporate development and the delivery of intellectual capital information to investors in order to reduce capital costs due to the existence of information asymmetry. The role of GCG as a monitoring tool for corporate managers will also be examined by including the role of GCG in moderating the relationship between intellectual capital information disclosure and capital cost. The results of this study are expected to contribute to the development and management of intellectual capital in Indonesia. [28].

2. Literature Review

2.1 Agency Theory

Supply chains face increased pressure from stakeholders to incorporate a plethora of corporate responsibility and sustainability aspects in their constituents' business practices. Legal and extra-legal demands are dynamically changing; almost no industry, supply chain, organization, and an organizational function are unaffected. Owing to the outsourcing wave of the last decade, in particular purchasing and supply management (PSM) plays an ever more important role in assuring sustainable supply chains in the marketplace. As shown in [29], the agency theory assumes that all individuals act on their behalf. They define agency relationship as "a contract under which one or more persons (the principal(s)) engage another person (the agent) to perform some service on their behalf which involves delegating some decision making authority to the agent" (p. 5). The agency relationship between agent and principal within the company can occur for example, between managers and shareholders or bondholders, between majority shareholders and minority shareholders, and between managers and suppliers.

In the contract theory or agency theory, the corporate entity is seen as the 'nexus of contract', a group of interested parties and each party has rights as stated in their respective contracts, see [29] and [30]. Each individual in this contract has an incentive to maximize their respective interests, resulting in agency costs that can reduce firm value [31].

Firms often differ in quality, whether in the form of goods and services, information, and investment opportunities, or in the securities of their entity-in the form of stocks, bonds, or other valuable securities [12]. Given the asymmetry of information occurring in the capital market, those with more information (e.g., insiders) will take advantage of the opportunity to gain higher returns than the less well informed parties. To reduce information asymmetry, and to differentiate high quality firms from other low quality companies, high-type managers send signals in the form of information to the market [12]. A signal can be defined as "... an action taken by a high-type manager that would not be rational if that low-type". Signal mechanisms can be diverse, such as signals conveyed by high-quality managers in the form of more informative intellectual capital disclosures.

2.2 Intellectual Capital Disclosures and Cost of Capital

Disclosure of information in the annual reports is expected to reduce information asymmetry and also reduce agency problem [13]. Theoretically, increased disclosure by firms can lower transaction costs thus increasing stock liquidity and decreasing uncertainty as well as reducing the adverse selection issues [28]. Better voluntary disclosure will also improve market performance [15]. The decision to disclose additional information must be based on the cost-benefit considerations.

The company may provide information to stakeholders regarding the operations of activities and the impact of these activities. One of the company's operating activities is the disclosure of the company's intellectual capital. Good disclosures are expected to reduce the information asymmetry between management and investors so as to reduce the cost of company's capital. Some studies indicate positive influence of voluntary disclosure that is lowering cost of capital [21]. Thus, better intellectual capital disclosures will decrease the

cost of capital. This argument leads to the following hypothesis.

H1: Intellectual capital disclosures lower the cost of capital.

2.3 Good Corporate Governance, Intellectual Capital Disclosures and Cost of Capital

Corporate governance is one of the mechanisms aimed at minimizing agency conflicts by aligning relationships among stakeholders to determine the direction and control of the company performance. How the owner can monitor and control the decisions and actions of the top managers will influence the implementation of corporate strategy. Effective corporate governance will align the interests of managers and owners so as to produce a competitive advantage for the company.

The principles of GCG are fairness, transparency, accountability, and responsibility. Justice with respect to fairness and equality of the treatment of minority shareholders to be protected from fraud, trafficking and abuse by insiders (self-dealing or insider wrong doing). Transparency is carried out through accurate and timely disclosure of company performance information. Management accountability is exercised through effective oversight based on the balance of power between supervisors, managers, shareholders, and auditors. The company's responsibilities relates to the company as a member of society to obey the law and to act wisely in the environment in which it operates.

According to the agency theory, GCG mechanisms and voluntary disclosure can be used to protect investors and reduce conflicts of interest between owners and agents. This theory also states that disclosure will lower agency costs [29]. GCG mechanisms will be able to pressure managers to better disclose information. Voluntary disclosure will reduce information asymmetry and will ultimately have an impact on capital cost reductions. This negative impact will also depend on the company's management condition. If the company is well managed, this condition will strengthen the impact of intellectual capital disclosure on the reduction of capital costs. Thus the following hypothesis is proposed.

H2: Good corporate governance reduces the effect of intellectual capital disclosures on cost of capital

3. Methods

3.1 The Model

In order to manage supply chain risks, supply management must ensure that their local and international practices and relationships comply with their stakeholders' expected codes of conduct and that environmental and social misconducts do not occur, while maintaining profitability. The proposed framework (Figure 1) highlights the "dynamic nature" of requisite supply management capabilities and governance mechanisms. This is mainly due to the need to creating a strategic fit between supply chains and the continually changing supply chain risks. This research will use multiple regression analysis method with moderated regression analysis (MRA) technique. The analysis technique of moderated regression analysis (MRA) is an analysis to find out the relationship of influence between a variable to other variables where there are moderation variables that influence the relationship between independent variable to dependent variable as stated in the research design in the previous section. The following model is used to test the hypotheses.

$$COC = \alpha_0 + \alpha_1ICDI + \alpha_2GCG + \alpha_3ICDI*GCG + \alpha_4SIZE + \alpha_5LEV + e$$

COC is the cost of capital measured using the Ohlson model [14]. This measured as issued in a number of studies, for example [2]. ICDI is the intellectual capital disclosures index measured using the content analysis based on [17]. Previous studies, [1], also use this measure. GCG is good corporate governance index measured using the

Indonesia of corporate governance rating agency, Size is the size of the firm measured as the natural logarithm of total assets. Previous studies, [13], also employ this measure. LEV is leverage measured as the ration of total debts over total assets. This variable is used in [11].

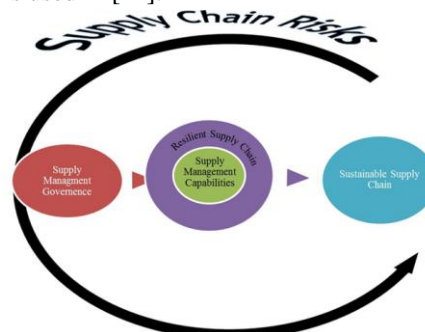


Figure 1: supply chain and god governance

Population

The population used in this study are manufacturing companies listed on the Indonesia Stock Exchange over the period of 2013-2015. The sample is determined using the following criteria company does not engage in any corporate actions during the period of analysis, such as merger or acquisition and the company's annual report is accessible. Company with outlier data will be excluded.

Sample

Based on the criteria of the sample selection, a total of 83 companies were selected. The sample selection procedure can be seen in Table 1.

Table 1. Selection of Sample Process

No.	Description	Tot
1	Company meeting the first two criteria	90
2	Company with outliers data	7
Final sample		83

4. Result and Discussion

Result

Supply management governance In this study, the vehicle to strengthening the capacity of a supply chain to ensure ecological resilience is proposed to be via supply management governance; i.e.,

structures and processes intended to coordinate and integrate various dimensions of the supply management. Governance represents the structures and processes by which societies share power, also shapes individual and collective actions. Firms should be deliberate in devising and implementing appropriate supply management governance

mechanisms to safeguard against such market imperfections and supply chain uncertainties. Such governance mechanisms make it possible to achieve supply chain ecological resilience, thus enabling the firm to adapt rapidly while retaining coherence even as its supply chain

continues to expand. Table 2 presents the descriptive statistics of variables examined in the study. As can be seen in the table, the intellectual capital disclosure index ranges from 0.0329 to 0.3406, with an average of 0.2044. This indicates that there is a relatively low index value among the companies examined in this study.

Table 2. Descriptive Statistics of Variables

Variables	Minimum	Maximum	Mean	Standard Deviation
ICDI	0.0329	0.0329	0.2044	0.0679
ICG	0.5101	0.7975	0.6166	0.2133
ICDI*ICG	0.0211	0.2218	0.1317	0.0737
Size	17.4813	28.4638	25.9840	2.9141
Lev	0.0977	0.7985	0.4086	0.1823
CoC	-0.9853	2.1849	0.1160	0.7787

Similar results are reported for GCG index of which the average is 0.6166. this figure is considerable low. In terms of leverage, on average, the companies in this study have a total debt of half

of their assets. The cost of capital interestingly has a negative value. This seems to be strange. In addition, the maximum cost of capital is higher than 100 percent. This is also strange.

Table 3. Summary of Results of Hypotheses Testing

Variables	Predicted sign	Coefficient	t-value	p-value
Constant		-3.136	-2.921	0.005
ICDI	negative	0.772	2.177	0.033
ICG	negative	1.055	2.659	0.010
ICDI*ICG	negative	-0.851	-2.637	0.010
Size	negative	0.250	2.369	0.020
Lev	positive	-0.005	-0.045	0.964
R ² (Adj. R ²)	0.582 (0.339)			
F-Stat (F-sig)	4.158 (0.000)			

The results of hypotheses testing are presented in Table 3. As can be seen in Table 3, hypothesis one (H1) cannot be accepted as the sign is positive, whilst the study predicts it shall be negative. This finding is interesting given more disclosures are associated with higher cost of capital. Similar finding is reported for the good corporate governance index. A positive coefficient is generated.

Discussion

The effect of Intellectual Capital Disclosure on Cost of Capital

The results of statistical tests showed that ICDI variables have a positive effect on the COC. This means that high corporate intellectual capital disclosure would increase the cost of capital, which indicates that the company's information about

intellectual capital can make the financial statements presented by the company more transparent and influence the investor's estimate of the risks that exist in the company. Examining the relationship of intellectual capital disclosure on the cost of capital would help managers to understand the impact of applying intellectual capital on corporate finance. The results of this study are consistent with [12] who find evidence that the greater the level of accounting disclosure done by the company accompanied by good information, the lower the cost of capital.

Moderating Effect of Good Corporate Governance on the Relationship between Intellectual Capital Disclosure and Cost of Capital

The results of this study indicates that good corporate governance has a significant negative

effect in moderating the influence of ICDI on cost of capital. The results of this study prove that GCG is a moderating variable. The effect of ICDI*ICG on cost of capital relationship is inversely proportional, whereas the higher ICDI*ICG value, the lower the cost of capital value. This condition reflects that GCG exercises good control over managers so that it can lower the capital cost incurred by investors.

This study uses company size control variables (Size) and debt ratio (Leverage). Many intellectual capital disclosures are often associated with firm size. The bigger the company, the lower will be the cost of capital. Conversely with leverage ratio, companies that have a high leverage will do a lot of disclosure that will eventually lower the cost of capital. The results of this study show size has positive and significant coefficient. This is strange as we expect that larger firm will be associated with lower cost of capital. This is consistent with research conducted by [23, 25]. Yet, the finding reported here is inconsistent with the one of [14].

The coefficient of leverage is insignificant. So, we may conclude that leverage level is not related to the level of cost of capital. This means that neither companies with high leverage or low leverage have no effect on intellectual capital disclosure with cost of capital issued by the company.

5. Conclusion

This paper aims to analyze the role of good corporate governance in supply chain management for coping with bad working conditions in factories in developing economies and related environmental problems. Based on the discussion the following conclusions are generated. Intellectual capital disclosure index has significant positive effect on the cost of capital. The interaction between intellectual capital disclosure index and good corporate governance generates negative and significant effect on cost of capital.

The finding reported here clearly imply that good corporate governance can serve as a moderating variable that reduces the negative impact of intellectual capital disclosure index on cost of capital. Good corporate governance has significant positive effect on cost of capital. This means that corporate governance can serve as a determinant variable affecting the cost of capital.

Limitations and the suggestions that can be offered based on the limitations of this study are as follows. This study uses a sample of manufacturing

companies with two years of observation. Further research is suggested to use longer observation period, to produce more accurate in showing the implications that exist mainly related to the disclosure made by the company. This study uses the Ohlson's model as a proxy to measure cost of capital. Further study may use other proxies such as weighted average cost of capital or Residual Income Model.

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Index Scopus Q3, SJR=0.19, United Kingdom

LINK CONTENT IJSCM:

<https://ojs.excelingtech.co.uk/index.php/IJSCM/issue/view/197/showToc>

Supply Chain Strategy and Labor Partnership as a National Priority in the Economic Development of Russia	PDF
Marina V. Rossinskaya, Violetta V. Rokotyanskaya, Bela B. Bidova, Alesya A. Kanaeva, Elena I. Voloshina	351 - 356
Aspects of Information Management as Analytical Support for the Supply Chain Management and Customers' Loyalty	PDF
Irina Anatolyevna Ivanova, Tatyana Vasilievna Glukhova	357 - 366
The Impact of Innovation Activity Development in Supply Chain Management: A Case Study in Russia	PDF
N.S. Plaskova, N.A. Prodanova, F.A. Khamkhoeva, O. E. Bashina, S.V. Gus'kov	367 - 376
Agile Supply Chain Management in Agricultural Business	PDF
Denis Syromyatnikov, Alexandr Geiko, Sattar Kuashbay, Aizharkyn Sadikbekova	377 - 383
Retail Trade as an Agenda-Setting Factor for the Strategic Management of Supply Chains	PDF
Olga Demkina, Irina Litvin, Alexander Biryukov, Lesya Bozhko, Ekaterina Vulfovich	384 - 391
Supply Chain Model of a Manufacturing Enterprise: Multi-Agent Approach	PDF
Elena Panfilova, Artem Smirnov, Oleg Misko, Baurzhan Karimov, Natalia Prodanova	392 - 399

<u>International Transport, the Concept and Essence of Liability in International Freight Transportation in the Context of Supply Chain Management</u>	<u>PDF</u>
Etibar Aliev	400 - 407
<u>Asia Agricultural Market: Methodology for Complete Use of Economic Resources through Supply Chain Optimization</u>	<u>PDF</u>
Tlektes Espolov, Aidos Espolov, Bakyt Kalykova, Nurdaulet Umbetaliyev, Maira Uspanova, Zhenisbek Suleimenov	408 - 413
<u>Healthcare Logistics & Supply Chain Management in Health Industry of Indonesia Based on the Telemedicine</u>	<u>PDF</u>
Carolina Kuntardjo	414 - 425
<u>Integrated E-Supply Chain Management Systems Services as a form of Acceleration of Development in Indonesia</u>	<u>PDF</u>
Lilik Pudjiastuti, Indrawati Indrawati, Hasbi Ariski, Desi Arianing Arrum, Lilik Pudjiastuti	426 - 434
<u>Dispute Settlement Method for Lending in Supply Chain Financial Technology in Indonesia</u>	<u>PDF</u>
Trisadini Prasastinah Usanti, Fiska Silvia, Anindya Prastiwi Setiawati	435 - 443
<u>Entrepreneurial Supply Chain Management Competence: Predictors of Work Motivation Advocate</u>	<u>PDF</u>
Sugeng Prayetno, Hapzi Ali	444- 454
<u>Impact of Corporate Governance in Supply Chain Management</u>	<u>PDF</u>
Istianingsih Istianingsih	455- 461
<u>The Influence of Supply Chain Strategy in Hoteling industry and Intention to Book Hotel Traveloka.com</u>	<u>PDF</u>
Arissetyanto Nugroho, Molissa Dwi Zane, Janfry Sihite	462 - 471
<u>Implementation Open Source System Resource Planning In Sustainable Supply Chain Management of Small and Medium Enterprise</u>	<u>PDF</u>
Agung Terminanto, Achmad Nizar Hidayanto, Fajar Budi Utomo	472 - 495
<u>Integration of the Supply Chain Management and Development of the Marketing System</u>	<u>PDF</u>
Iryna Perevozova, Liliana Horal, Andriy Mokhnenko, Nataliia Hrechanyk, Andriy Ustenko, Oksana Malynka, Lilya Mykhailyshyn	496 - 507

<u>The Role of Web-Sphere for Managing Supply Chain Business Objects in Heterogeneous Systems</u>	<u>PDF</u>
Maria Abuzjarova, Chen Yanting, Oleksandr Pidchosa	508 - 515
<u>Logistic Supply Chain Management and Economic Security of the Enterprise</u>	<u>PDF</u>
M. P. Vlasov	516 - 523
<u>Application of Crowdsourcing Technology In Terms Of Digitization of Supply Chain Strategy</u>	<u>PDF</u>
E. Bronnikova, O. Kuljamina, M. Vinogradova	524 - 536
<u>Supply Chain Management Application in Functional Food Industry</u>	<u>PDF</u>
I. R. Shegelman, V. M. Kirilina, A. S. Vasilev, L. E. Blazhevich, O. E Smirnova	537 - 549
<u>Integration of Social Entrepreneurship and Supply Chain Management</u>	<u>PDF</u>
Maksimova Svetlana Mikhailovna, Kuzminykh Svetlana Sergeevna	550 - 557
<u>Regional Social and Economic Concern of Supply Chain Sustainability in Republic Of Tatarstan</u>	<u>PDF</u>
S.V. Khusainova, E.A. Osadchy, S.Y. Bakhvalov, O.N. Ustyuzhina	558 - 561
<u>The Impact of New Media Literacy and Supply Chain Knowledge Management on Community Economy in Indonesia</u>	<u>PDF</u>
K. Y.S Putri, Adamu Abbas Adamu, Saparuddin Mukhtar, Dini Safitri, Rayni Delya Hafni, Dini Nur Fadhillah	562 - 567
<u>Effects of a Supply Chain Collaboration model on Competitiveness via Collaborative Advantages and Reduction of Supply Chain Disruption</u>	<u>PDF</u>
Apinyaporn Sopa, Krittapha Saenchaiyathon	568 - 577

LINK ABSTRACT & ARTICLE:

<https://ojs.excelingtech.co.uk/index.php/IJSCM/article/view/4886>

The screenshot shows a web browser window with the following elements:

- Browser Tabs:** Three tabs are open: 'PKP The Influence of Supply Chain Stra...', 'PKP Impact of Corporate Governance...', and 'Green International Multidisciplin...'. The active tab is the second one.
- Address Bar:** The URL is <https://ojs.excelingtech.co.uk/index.php/IJSCM/article/view/4886>.
- Page Header:** The page has a green header with the text 'Page Header'.
- Navigation Menu:** A horizontal menu with links: HOME, ABOUT, LOGIN, REGISTER, SEARCH, CURRENT, ARCHIVES, ANNOUNCEMENTS, EDITORIAL BOARD, ONLINE, SUBMISSION, PUBLICATION ETHICS.
- Breadcrumbs:** Home > Vol 9, No 3 (2020) > Istianingsih
- Article Title:** Impact of Corporate Governance in Supply Chain Management
- Author:** Istianingsih Istianingsih
- Section:** Abstract
- Abstract Text:**

Abstract— Collaborative governance plays a critical role in guiding the whole supply chain to achieve its strategic goals. This study aims to examine the impact of information provided via the disclosure of intellectual capital on the cost of equity capital. It also examines the effect of good corporate governance on the relationship between intellectual capital disclosure and supply chain. It examines firms listed on the Indonesian stock exchange for period 2013 to 2015. Data were analyzed using moderated regression analysis. Results show that intellectual capital affects the increase of cost of capital. Good corporate governance variable has significant positive effect on cost of capital. Corporate governance could serve as a determinant that influences capital expenditures by investors. The cost of capital is negatively affected by the interaction between intellectual capital disclosure index and good corporate governance. This means that the negative impact of intellectual capital disclosure index on cost of capital is negatively moderated by good corporate governance. Finally it can be concluded that supply chains face increased pressure from stakeholders to incorporate a plethora of corporate responsibility and sustainability aspects in their constituents' business practices.
- Full Text:** A link labeled 'Full Text:' with a 'PDF' icon below it.
- Refbacks:** A section titled 'Refbacks' with a bullet point: 'There are currently no refbacks.'
- User Login:** A 'USER' section with fields for 'Username' and 'Password', a 'Remember me' checkbox, and a 'Login' button.
- Journal Content:** A 'JOURNAL CONTENT' section with a 'Search' input field, a 'Search Scope' dropdown menu (set to 'All'), and a 'Search' button.
- Browse:** A 'Browse' section with links: 'By Issue', 'By Author', 'By Title', and 'Other Journals'.
- Font Size:** A 'FONT SIZE' section.
- Information:** An 'INFORMATION' section with links: 'For Readers', 'For Authors', and 'For Librarians'.
- Taskbar:** The Windows taskbar is visible at the bottom, showing the search bar with the text 'here to search', and several application icons including Edge, File Explorer, and Word.

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Scope:

Business, Management and Accounting, Management Information Systems, Computer Science, Information Systems, , Decision Sciences, Information Systems and Management



<https://www.scimagojr.com/journalsearch.php?q=21100429502&tip=sid&clean=0>

LINK TO SCIMAGOJR.COM

<https://www.scimagojr.com/journalsearch.php?q=21100429502&tip=sid&clean=0>

The screenshot shows the Scimago Institutions Rankings page for the International Journal of Supply Chain Management. The page features a search bar at the top with the journal title and ISSN. Below the search bar, the journal's name is displayed in a large font. To the right of the journal name, the ranking is shown as '13' with an 'H Index' label. On the left side, there is a table with the following details:

Country	United Kingdom - SIR Ranking of United Kingdom
Subject Area and Category	Business, Management and Accounting Management Information Systems Computer Science Information Systems Decision Sciences Information Systems and Management
Publisher	ExcelingTech Publishers
Publication type	Journals
ISSN	20507399, 20513771
Coverage	2012-2020

At the bottom of the page, there is a cookie consent banner that reads: "This website uses cookies to ensure you get the best experience on our website" with a "Got it!" button.

This screenshot displays the performance metrics and charts for the International Journal of Supply Chain Management. The page includes several line and area charts showing trends from 2012 to 2019:

- % International Collaboration:** A line chart showing a general upward trend from approximately 10% in 2012 to 20% in 2019.
- Citable documents vs Non-citable documents:** A line chart showing a steady increase in citable documents (green line) and a decrease in non-citable documents (red line) over the period.
- Cited documents vs Uncited documents:** An area chart showing a significant increase in cited documents (green area) and a decrease in uncited documents (red area) from 2012 to 2019.
- Cites / Doc. (4 years), (3 years), (2 years):** A line chart showing an overall upward trend in citation metrics, with the 4-year metric (blue line) showing the most significant growth.

At the bottom of the page, there is a widget for the International Journal of Supply Chain Management, which includes a QR code and a link to the journal's Scimago profile. The widget also displays the journal's SJR 2019 score of 0.19 and its ranking in the best quartile of Information Systems and Management. A "Got it!" button is present at the bottom right of the page.

LINK TO SCOPUS.COM

<https://www.scopus.com/sourceid/21100429502>

The screenshot shows the Scopus Sources search results page. The search title is "International Journal Of Construction Supply Chain Management". A CiteScore metrics information box is visible, explaining that CiteScore metrics are comprehensive, transparent, and current. A bar chart shows citations from 2014 to 2019. The search results table shows one result:

Source title	CiteScore	Highest percentile	Citations 2018	Documents 2015-17	% Cited
1 International Journal of Construction Supply Chain Management Open Access	0.25	19% 135/167 Building and Construction	4	16	19

The screenshot shows the source details page for "International Journal of Supply Chain Management". The page includes the following information:

- Source title:** International Journal of Supply Chain Management
- Scopus coverage years:** from 2012 to 2019
- Publisher:** ExcelingTech Publishers
- ISSN:** 2051-3771 E-ISSN: 2050-7399
- Subject area:** Decision Sciences: Information Systems and Management, Computer Science: Information Systems, Business, Management and Accounting: Management Information Systems
- Metrics:** CiteScore 2018: 0.63, SJR 2018: 0.199, SNIP 2018: 0.599
- CiteScore breakdown:** CiteScore 2018 = 0.63 = $\frac{173 \text{ Citations}}{275 \text{ Documents (2015-2017)}}$
- CiteScore rank:** Decision Sciences, Information Systems and Management, Rank #66/97, Percentile 31st

NO PREDATORY LIST

<https://beallist.net/standalone-journals/>

The screenshot shows a web browser window with two tabs: 'Standalone Journals - Beall's List' and 'Google Terjemahan'. The address bar shows 'beallist.net/standalone-journals/'. The page title is 'BEALL'S LIST OF PREDATORY JOURNALS AND PUBLISHERS'. A navigation bar contains links for 'PUBLISHERS', 'STANDALONE JOURNALS' (which is active), 'VANITY PRESS', 'CONTACT', and 'OTHER'. Below the navigation bar is a search box with the placeholder text 'Search for standalone journals (name or URL)'. The main content area is divided into two columns. The left column is titled 'Potential predatory scholarly open-access journals' and contains an 'Instructions' section, an 'Original list' section with a 'GO TO UPDATE' button, and a list of journal titles: 'Academic Exchange Quarterly' and 'Academic Research Reviews'. The right column is titled 'Original description' and contains a paragraph of text: 'This is a list of questionable, scholarly open-access standalone journals. For journals published by a publisher, please look for the publisher on the list of publishers, here. This list is only for single, standalone journals. We recommend that scholars read...'. At the bottom of the screenshot, a Windows taskbar is visible with several open applications: 'na....docx', 'COVID-19 Econom....pdf', 'Outline of Journal....pdf', 'WhatsApp Image...jpeg', and 'Screenshot_20170....png'. The taskbar also shows a search bar and several system icons.

Note, Update June 2020:

**On going in the
Scopus.com, Scimagojor.com and no predatory list**