# INFLUENCE OF STRATEGIC FACTORS IN INCREASING STRUCTURAL GROUP ENGAGEMENT AND IMPLEMENTATION SUCCESS OF THE GREEN SUPPLY CHAIN MANAGEMENT

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*ABSTRACT* - Environmental problems have become a global issue, so the industry realizes that to evaluate the process of procurement of raw materials, distribution, customers, and stages of disposal, holistic changes are needed. This study aims to determine and analyze the influence of technological characteristics, organizational encouragement, and the quality of collaboration on the structural group engagement and GSCM implementation. Analyze the influence of the structural group engagement on GSCM implementation. This research was conducted with a quantitative approach that developed and tested the model. The research was conducted at PT Vale Indonesia (PTVI), Soroako, South Sulawesi, and PT Agincourt Resources (PTAR), South Tapanuli Regency, North Sumatra. The population and sample of the study were all leaders at various structural levels within PT Vale Indonesia (PTVI) and PT Agincourt Resources (PTAR). Methods of collecting data using a questionnaire, which was designed in the form of a closed questionnaire. The data analysis technique uses Structural Equation Modeling. The results showed that the technological characteristics and organizational encouragement variables significantly influence the structural group engagement and GSCM implementation. The quality of collaboration has a significant effect on GSCM implementation. The involvement of the structural group engagement.

Index Terms - technological characteristics, organizational encouragement, quality of collaboration, and green supply chain management

# I. INTRODUCTION

Industrial development that includes business activities and operations has brought a large contribution to science and management research. One form of industrial development related to business activities and operations and has become a concern for all practitioners and academics throughout the world, namely the change (transformation) of the concept of supply chain management into a green supply chain management. The transformation was motivated by the concerns of all parties regarding the level of environmental damage that was increasingly alarming.

Government pressure and global demand trends have caused many companies to adopt GSCM (Chin et al. 2015). Changes in demand from consumers have encouraged the industry to put forward sustainable performance aspects through the application of GSCM (Singh & Trivedi, 2016; Solomon et al. 2014; and Kafa et al. 2013). The logical consequence of the implementation of sustainable, it is necessary to identify the activities in the supply chain process that have negative potential for the environment in order to be evaluated through the design and production processes that are environmentally friendly.

Seman et al. (2012) explain GSCM's advantages for the company, namely as an effort to maintain excellence and be able to increase business profits and expand market share. The next advantage of GSCM is being able to increase energy accessibility, and increase renewable energy conversion (Halldorsson & Svanberg, 2013). Research findings Fang & Zhang (2018) using a meta-analysis that internal and external GSCM practices have a positive effect on corporate performance and environmental performance.

GSCM is one of the concepts that brings positive changes to environmental sustainability, but on the other hand many companies experience obstacles and obstacles when implementing GSCM. Various obstacles have been explained in detail in the study of Luthra et al (2011), the first obstacle from the perspective of cost pressure where companies implementing GSCM must bear enormous costs, this is different from conventional supply chain management which actually has costs relatively low. The second obstacle is from the perspective of flexibility, where companies implementing GSCM experience low flexibility, in contrast to conventional supply chain management which results in high flexibility.

Supply chain management activities play a role in managing products from exploration to extraction so that the values obtained can be maximized (Bice, 2011). The supply chain activities themselves, especially transportation, have an effect on the environment. This effect mainly occurs in the form of air pollution due to pollutant gas production and particulate matter, as well as the increased risk of transportation accidents (Mallidis and Vlachos, 2010). In addition, warehouses are also an important component of the supply chain. Pesch et al (2012) found that the presence of warehouses changed land that absorbs water into asphalt-covered land and cement that is not water-resistant, resulting in problems with soil erosion and loss of biodiversity.

The construction of mining infrastructure and its supply chain risks increasing hunting and deforestation in remote areas as well as large numbers of labor migration and customary agrarian issues (Levashova et al, 2010: 13, 32). Indeed, supply chain management does not consider environmental issues. This is reasonable considering that the supply chain applies generally to various companies and many industries are located in urban areas. This will be more difficult for a mining company located in a remote location, where the environment can have a major impact in providing the right quantity, right location and appropriate time. This study aims to analyze the influence of technological characteristics, organizational motivation, and the quality of collaboration on the involvement of the position structure group and GSCM implementation.

# **II. LITERATURE REVIEW**

#### 2.1. Technological Characteristics

The concept of green technology comes from UN enda 21 at the 1992 United Nations Environment and Development Conference (UNCED). This concept is further developed by UNESCO with an emphasis on aspects of environmental protection, ecological returns, efficiency improvements, and economic development (Wang et al. 2012). The point is that green technology aims to mitigate or reverse the effects of human activities, including mining, on the environment (Oxford Dictionary, 2013).

GSCM relies on green technology infrastructure to build a reverse supply chain and expand traditional supply chains, and produce closed loops on supplies to meet sustainability criteria (Li, 2011). Lin and Ho's (2008) study found that the exploitation and accumulation of green technology had a significant effect on the willingness of a company to adopt GSCM. Therefore, the government in Taiwan seeks to help companies overcome green technology problems so that the entire supply chain in Taiwan belongs to GSCM (Hu and Hsu, 2010). Consumers who are increasingly aware of sustainable development also try to encourage companies to develop green products and use green technology in the production process (Tseng, 2011).

## 2.2. Organizational Encouragement

Encouragement is usually seen as a form of providing support for an activity (Pullig et al, 2002). Even so, equating encouragement with support is a mistake because the concept of support relates to an activity that is driven by employee initiative,

while encouragement is related to activities that are driven by the company's own initiatives. Encouragement can be interpreted as a form of support insofar as it is stated explicitly that the support is carried out for the actions ordered by the company.

Organizational encouragement can be expressed as "managerial support and autonomy given to groups of employees that enable them to carry out a task" (Kock et al, 2015). By stating that the activity carried out is a task, it is clear that the activity is initiated by the company, not by employees. Furthermore, the placement of autonomy as one of the elements of encouragement emphasizes that there is a wide enough free space for employees to produce various actions that can be classified as efforts to carry out tasks.

#### 2.3. Quality of Collaboration

The supply chain system contains elements of collaboration because it involves a number of entities that work together to achieve common goals. This also applies to GSCM. Therefore, the concept of quality collaboration needs to be raised. Bhatti et al (2011) defines collaboration quality as "the ability of the system to allow collaboration between employees or members of a project to do a task collectively." Heimeriks and Schreiner (2002) do not see the quality of collaboration on the system that allows collaboration to occur, but in terms of the characteristics of the collaboration itself. Heimeriks and Schreiner (2002: 9) define the quality of collaboration as a specific characteristic of an alliance that has a significant positive effect on the performance of the alliance. Understood in the context of the supply chain, this definition means that the quality of collaboration is a specific characteristic of the supply chain that has a significant positive effect on the performance of the supply chain.

# 2.4. Structural Group Engagement

Engagement is an important concept because it has the potential to have an impact on attitudes towards a job and its behavior towards decision making (Josiam et al, 1999). Engagement is interpreted in various senses. One understanding of involvement is "the perception of one's relevance to an object based on inherent needs, values and interests". Other definitions mean involvement as a level of importance, emphasizing the importance of an object in an individual, or the centrality of an object in an individual ego structure. The point is that engagement is a view of the relationship between an event or an object and the structure of values, needs, and interests of a person.

# 2.5. GSCM Implementation

Research Chan et al (2012) found that three GSCM practices are influenced by the orientation of the internal environment. The orientation of the external environment such as the influence of the environment on the business and the pressures of external stakeholders on the company to organize GSCM were also tested but only affected the two GSCM practices. The external environment orientation has no effect on investment recovery. Based on these findings, it can be said that the orientation of the internal environment is more important for GSCM practices than the orientation of the external environment. The orientation of the internal environment reflects that the organization organizes GSCM with its own motivation and pressure from within itself. Therefore, internal environment orientation indicators are better able to capture GSCM implementation than external environment orientation.

#### **III. RESEARCH METHODS**

This research design is carried out with a quantitative approach that develops and tests models that are built on grand theory. This study examines and analyzes the variables that affect the implementation of GSCM, these variables are the technological characteristics, organizational encouragement, quality of collaboration and structural group engagement. The research was conducted at PT Vale Indonesia and PT Agincourt Resources. The research population is all leaders at various structural levels within the company. The population in this study also became a research sample (sampling census). In this study, primary data was obtained from the results of questionnaires distributed to all respondents. Methods of collecting data using a questionnaire, which was designed in the form of a closed questionnaire. Closed questionnaires were used to measure respondents' perceptions of the technological characteristics, organizational encouragement, quality of collaboration, structural group engagement and GSCM implementation. The data analysis method used in this study is descriptive analysis and multivariate statistics, namely Structural Equation Modeling (SEM).

## **IV. RESULTS AND DISCUSSION**

## 4.1. Research Instrument Testing Results

The results of testing this research instrument are described based on each variable, the results of the instrument test are presented as follows.

Table 1           Validity Test Results of Each Construct: the Technological Characteristics						
Corrected Item- Cron Scale Mean if Scale Variance if Total Alpha Indicator Item Deleted Item Deleted Correlation Del						
T1 - Green technology in the office	11.8936	4.449	0.554	0.755		
T2 - Green technology in the field	11.8404	3.942	0.664	0.698		
T3 - Green technology replaces old technology	11.9202	4.127	0.601	0.732		
T4 - More and more green technology	11.7713	4.530	0.563	0.751		

Based on the results seen in Table 1, it can be seen that the value of r count> r table value at df (144-2) = 0.137, the value is higher than the entire value of the corrected item-total correlation. Thus, it can be stated that all the questions on the T1 indicator, T2, T3, and T4 valid or able to express the value of the validity measured by the questionnaire. The next stage is outlined the results of the validity analysis on the organizational encouragement variable as follows.

Table 2					
Test Results for the Validity of Each Construct: the Organizational Encouragement					
	Scale Mean if Item Scale Variance if Corrected Item- Cronbach's Alp				
Indicator	Deleted	Item Deleted	<b>Total Correlation</b>	if Item Deleted	
O1 - Direct order	26.8085	20.562	0.288	0.764	
O2 - Fund support	26.8511	18.373	0.478	0.735	
O3 - Provision of motivation	26.9894	17.583	0.562	0.719	
O4 - Support facilities	26.9255	17.973	0.555	0.721	
O5 - Freedom of initiative	26.8883	18.784	0.509	0.731	
O6 - Guide or manual	26.9043	18.194	0.514	0.729	
O7 – Training	26.9894	18.235	0.429	0.745	
O8 - Incentives or bonuses	27.0426	18.586	0.372	0.756	

Based on the results seen in Table 2, it can be seen that the value of r count> r table value at df (144-2) = 0.137, the value is higher than the entire value of the corrected item-total correlation. Thus, it can be stated that all questions on O1 indicators, O2, O3, O4, O5, O6, O7, and O8 are all valid or able to express the value of the validity measured by the questionnaire, so that it can be used for further analysis. The next stage describes the results of the validity analysis on the quality of collaboration variables as follows.

Table 3						
Test Results for the Validity of Each Construct: the Quality of Collaboration Corrected Item- Cronbach's						
	Carle Mana P	Cronbach's				
Indicator	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Total Correlation	Alpha if Item Deleted		
C1 – Help each other	16.8617	18.109	0.549	0.632		
C2 – Conformity	17.0851	17.854	0.535	0.636		
C3 – Coordination	16.9415	17.670	0.539	0.634		
C4 - Trust each other	16.8511	18.074	0.487	0.653		
C5 - Commitment	16.0585	22.398	0.320	0.701		
C6 – Communication	16.1755	22.937	0.201	0.731		

Based on the results seen in Table 3, it can be seen that the value of r count> r table value at df (144-2) = 0.137, the value is higher than the entire value of the corrected item-total correlation. Thus, it can be stated that all questions on indicators C1, C2, C3, C4, C5, and C6 are valid or able to express the value of the validity measured by the questionnaire, so that it can be used for further analysis. The next stage outlines the results of the analysis of validity on the variable structural group engagement as follows.

Table 4           Test Results for the Validity of Each Construct: the structural group engagement					
	Scale Mean if Item Scale Variance if Corrected Item- Cronbach's Alpha				
Indicator	Deleted	Item Deleted	<b>Total Correlation</b>	if Item Deleted	
I1 - Be positive	15.6277	10.075	0.442	0.760	
I2 - Looks important	15.5957	9.868	0.537	0.725	
I3 - Carry out the task well	15.6489	9.748	0.576	0.712	
I4 - Initiative without being told	15.6436	9.439	0.603	0.702	
I5 - Participation in submitting ideas	15.5691	9.851	0.536	0.725	

Based on the results seen in Table 4, it can be seen that the value of r count> r table value at df (144-2) = 0.137, the value is higher than the entire value of the corrected item-total correlation. Thus, it can be stated that all questions on indicators I1, I2, I3, I4, and I5 are valid or able to express the value of the validity measured by the questionnaire, so that it can be used for further analysis. The next stage describes the results of the validity analysis on the GSCM implementation variables as follows.

Table 5					
Test Results for the Validity of Each Construct: the GSCM implementation					
Scale Mean if Scale Variance if Corrected Item- Cronbach's Alp					
Indikator	Item Deleted	Item Deleted	<b>Total Correlation</b>	if Item Deleted	
S1 - Concentrated efforts	15.7181	9.958	0.278	0.844	
S2 - Policy / SOP	15.5798	8.395	0.629	0.737	
S3 - Environmental valuation	15.5319	7.780	0.727	0.702	
S4 - Corporate value	15.5479	8.174	0.653	0.728	
S5 - Budget support	15.6436	8.220	0.618	0.739	

Based on the results seen in Table 5, it can be seen that the value of r count> r table value at df (144-2) = 0.137, the value is higher than the entire value of the corrected item-total correlation. Thus, it can be stated that all questions on the indicators S1, S2, S3, S4, and S5 are all valid or able to reveal values validity measured by the questionnaire, so that it can be used for further analysis.

# 4.2. Results of the Structural Equation Model

This stage evaluates the coefficients or parameters that show the relationship of the influence of one latent variable to another latent variable. The detailed path coefficient presentation is presented in the following table.

Table 6           Results of Analysis of Structural Models of Inter-Variable Relations					
Variable	Variable	Estimates	T value (Critical Ratio)	p-value	Information
Technological Characteristics	Structural Gro Engagement	oup 0.177	2.405	0.016	Significant
Organizational Encouragement	00	oup 0.359	2.389	0.017	Significant
Quality of Collaboration	00	oup 0.053	1.505	0.132	Not significant
Technological Characteristics	GSCM Implementation	0.134	2.214	0.027	Significant
Organizational Encouragement	GSCM Implementation	0.330	2.474	0.013	Significant
Quality of Collaboration	GSCM Implementation	0.063	2.039	0.041	Significant
Structural Group Engagement	GSCM Implementation	0.188	1.968	0.049	Significant

The coefficient of influence of technological characteristics (X1) on the structural group engagement (Y1) is 0.177 with a t value of 2.405. The coefficient shows that the technology characteristic variable (X1) has a positive effect on the structural group engagement (Y1). This means that an increase in technological characteristics (X1), will be followed by an increase in the structural group engagement (Y1), assuming other factors that affect the size of the involvement of the structural group engagement (Y1) are considered constant. Statistical values t calculate the effect of technological characteristics (X1) on the structural group engagement (Y1) of 2.405, with a probability value of 0.016. This means that technological characteristics (X1) have a positive and significant effect on the structural group engagement (Y1).

The effect coefficient of the technological characteristics (X1) on GSCM implementation (Y2) is 0.134 with a t value of 2.214. The coefficient shows that the technological characteristics (X1) has a positive effect on GSCM implementation (Y2). This means that an increase in technological characteristics (X1), will be followed by an increase in GSCM implementation (Y2), assuming other factors that affect the size of the GSCM implementation (Y2) are considered constant. The statistical value t calculates the effect of technological characteristics (X1) on the GSCM (Y2) implementation of 2, 214, with a probability value of 0.027. This means that technological characteristics (X1) have a positive and significant effect on GSCM implementation (Y2).

The coefficient of influence of the organizational encouragement (X2) on the structural group engagement (Y1) is 0.359 with a t value of 2.389. The coefficient shows that the organizational encouragement (X2) has a positive effect on the structural group engagement (Y1). This means that an increase in organizational encouragement (X2), will be followed by an increase in the structural group engagement (Y1), assuming other factors that influence the size of the structural group engagement (Y1) are considered constant. The statistical value t counts the influence of organizational encouragement (X2) on the structural group engagement (Y1) of 2,389, with a probability value of 0.017. This means the organizational encouragement (X2) has a positive and significant effect on the structural group engagement (Y1).

The coefficient of influence of the organizational encouragement (X2) on GSCM implementation (Y2) is 0.330 with a t value of 2.474. The coefficient shows that the organizational encouragement (X2) has a positive effect on GSCM implementation (Y2). This means that an increase in organizational encouragement (X2), will be followed by an increase in GSCM implementation (Y2), assuming other factors that affect the size of the GSCM implementation (Y2) are considered constant. The statistical value t counts the influence of the organizational encouragement (X2) on GSCM implementation (Y2) of 2.474, with a probability value of 0.013. This means the organizational encouragement (X2) has a positive and significant effect on GSCM implementation (Y2).

The coefficient of influence of the quality of collaboration (X3) on the structural group engagement (Y1) is 0.053 with a t value of 1.505. The coefficient shows that the quality of collaboration (X3) is positive towards the structural group engagement (Y1). Statistical values t calculate the effect of the quality of collaboration (X3) on the structural group engagement (Y1) of 1.505, with a probability value of 0.132. This means that the quality of collaboration (X3) does not significantly influence the structural group engagement (Y1).

The coefficient of influence of the quality of collaboration (X3) on GSCM implementation (Y2) is 0.063 with a t value of 2.039. The coefficient shows that the quality of collaboration (X3) has a positive effect on GSCM implementation (Y2). This means that the improvement of the quality of collaboration (X3), will be followed by an increase in GSCM implementation (Y2), assuming other factors that affect the size of GSCM implementation (Y2) are considered constant. Statistical values t calculate the effect of quality of collaboration (X3) on GSCM implementation (Y2) of 2.039, with a probability value of 0.041. This means that quality of collaboration (X3) has a positive and significant effect on GSCM implementation (Y2).

The variable influence coefficient of the structural group engagement (Y1) on GSCM implementation (Y2) is 0.188 with a t value of 1.968. The coefficient shows that the structural group engagement (Y1) has a positive effect on GSCM implementation (Y2). This means that increasing the structural group engagement (Y1) will be followed by an increase in GSCM implementation (Y2), assuming other factors that affect the size of the GSCM implementation (Y2) are considered constant. The statistical value t counts the influence of the structural group engagement (Y1) on the GSCM implementation (Y2) of 1.968, with a probability value of 0.049. This means that the involvement of the structural group engagement (Y1) has a positive and significant effect on GSCM implementation (Y2).

#### V. CONCLUDING REMARKS

Statistical results show that the technological characteristics have a significant effect on increasing the structural group engagement. As an extrinsic factor, the characteristics of green technology that suit the needs of mining companies will have an impact on increasing the structural group engagement. Technological characteristics have a strong influence on improving GSCM implementation. The results of this study explain that all indicators plays an important role in improving the quality of GSCM implementation.

The organizational encouragement affects the direct involvement of the structural group engagement. PT Vale Indonesia and PT Agincourt Resources make the role of the organizational encouragement very strategic so that the GSCM concept is realized by involving leaders from all divisions and structural levels. Increased organizational encouragement statistically has a strong influence

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on improving GSCM implementation. All indicators from organizational encouragement proved to be able to improve GSCM implementation.

The quality of collaboration does not have a significant effect on increasing the structural group engagement, this is due to the low teamwork in the work environment which will reduce the productivity of the company. There are obstacles in the team, these obstacles are in the form of low cooperative attitude. The quality of collaboration has a strong influence on improving GSCM implementation. The results of this study explain that all indicators in the quality of collaboration. Statistical results show the magnitude of the influence of the structural group engagement on GSCM implementation.

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