# The impact of information and coordination innovation on relationship and firm performance: The case of small and medium enterprises in Indonesia

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Abstract. It has been acknowledged that small and medium enterprises (SMEs) play essential for contibuting economic growth. Previous findings indicated that networking among SMEs with business partners becomes a determinant factor for improving growth. The coordination capability among channel members in distribution channel for instance, suppliers, manufacturers, distributors, retailers, financial institutions, as well as other relevant agencies, brings competitiveness, which in turn enhances performance. As information sharing and coordination innovation possess a significantly positive influence in improving firm performance among the channel members, a few empirical evidences have been found on the effect of information and coordination innovation in lending on the relationship performance between SMEs and financial institutions(bankings) that led to SMEs' growth. By using structural equation model (SEM) for 103 samples of respondents, it was found that relationship performance led to the growth of SMEs in Indonesia, which in turn contributed to economic growth.

Keywords: Innovation, information and coordination, relationship performance, firm performance, small and medium enterprises, Indonesia.

#### **1.Introduction**

#### 1.1 Background of the Study

For decades, studies have proven that the dominant existence of small and medium enterprises (SMEs) plays crucial parts in the economy for generating employment, adding value, and alleviating poverty (Yhee *et al.*, 2001;Nagai,2007,and Mukhamad *et al.*, 2011). Previous emperical evidence showed that their large number of productive establishments have strengthened national economy foundation due to their abilities in developing the investment per unit enterprise that will support the operational productive activities (Agyapong,2010). However, inspite of their crucial role in the national economy, past studies found that capital access and networking with financial institutions (bankings) become determinant factors for SMEs to achieve success (Hans *et al.*, 2005 and Fatima, 2009).

Information sharing and coordination innovation have brought improvements to the performance. The innovation will create coordination capability that smoothens the productive activity process. According to Lancioni *et al.*, (2000); Maria & Fern'andez (2006); Zhoe & Benton (2007); Campo *et al.*, (2010); Ferri *et al.*, (2012) the use of information and

coordination innovation among channel members (suppliers,manufacturers,distributors, and retailers) with the technology involved, combined with human skills,will provide coordination capability in communications which consequently will enhance competitivenes. According to Nada (2008) directly promoted a precise category of coordination activity that would be able to accomplish both strategical and operational benefits for them.

Nevertheless, despite the benefit of innovation information sharing and coordination among channel members as addressed in literature, further study that examines the effect of information and coordination innovation on the relationship performance between SMEs and financial institutions (bankings) as business partners that leads to SMEs growth have not been conducted thoroughly in Indonesia.

## 1.2 SMEs in Indonesia

In regards to the SMEs in Indonesia, as Indonesian SMEs are mostly involved in agro-based activities and are located in rural areas, the presence of the sector in the economy and its ability to provide employment in alleviating poverty significantly recognized. According to Indonesian Central Bureau of Statistics in Mukhamad *et al.*, (2011), in 2009, the number of SMEs totaled up to 52.7 million or 99.9 per cent of all establishments in this highly populous country. In terms of job opportunities, Indonesian SMEs provided about 96.2 million employment or 97.3 per cent of the total employment.

Eventhough there are many financial institutions (bankings) that serve SMEs in Indonesia, they still encounter problems, where capital access still becomes the main issue hindering the growth of SMEs besides other leading factors such as marketing,innovation, and managerial skills (Mudrajat,2003;Manginsela,2005 and Tambunan,2009).Despite the government's effort in reducing the problems, they should innovate themselves in order to achieve sustainable competitiveness.

# 1.3 Objective of the Study

The information and coordination innovation will strengthen the coordination capability, which in turn will enhance growth. However, most studies examined the impact of innovation among channel members, which include suppliers, manufacturers, distributors, retail ers and end users of products. On the other hand, studies that emphasize on the effect of innovation on the relationship and firm performance, particularly on SMEs in Indonesia, have not been conducted thoroughly. Hence, the objective of the study is to examine the impact of information and coordination innovation in lending on the relationship performance between SMEs and financial institutions (bankings) that leads to firm performance of SMEs in Indonesia.

# 2. Literature Review and Conceptual Framework

2.1 Literature Review of Networking between SMEs and Financial Institutions(bankings) In relation to the role of SMEs scales as an engine for the economy growth, capital access is still considered as the main issue hindering the development of their business (Olawale, 2011;Musara & Olawale, 2011, and Anthony & Thomas, 2012). Hans *et al.*, (2005) showed that the policy of mergers among financial institutions affects the loyalty of customers to establish cooperation in both short-term and long-term. Taylor & Adrew (2006) indicated that having fewer relationships with the number of bankings for SMEs could reduce capital cost due to the trust provided by the banks such as in terms of guarantee, more flexible negotiations, and more concentrations in the relationship. According to the study done by Fatima (2009) on SMEs alliances with financial institutions, it was found that the adaptation ability of financial institutions to the capital needs of SMEs hada significant impact on customers' satisfaction. A recent study conducted by Daniel (2012) found an interesting finding, where the relationship between SMEs and banking emphasized more on collaterals and covenants rather than trust.

## 2.2 Conceptual Framework

# 2.2.1 Information and Coordination Innovation on Performance

An effective information sharing is essential in improving performance. According to the studies conducted by Lancioni *et al.*, (2000), Maria & Fern'andez (2006), and Campo *et al.*, (2010) the use of internet for information sharing has been proven to be able to increase effective cooperation and market knowledge as well as alliances with clients. Ravichandran & Chalermsak (2005) found that information system resources were critical in information technology implementation which in turn affected performance. Zhou & Benton (2007) suggested that the innovation in coordination applied in cooperation involved the process of adding value for a product from raw material to finished goods becomes a determining factor to increase flexibility in response to changing market conditions. Nada (2008) further suggested that promoting an accurate group of coordination activity directly will handle competitiveness in both strategical and operational benefits. A recent study by Ferri *et al.*, (2012) also proved that innovation and coordination by adopting information technology, research and development (R&D), as well as typical method, are also able to improve effectivity and efficiency. Other relevant topics on the relationship of information and coordination innovation on performance can be seen in Ferri *et al.*, (2012).

# 2.2.2 Relationship Performance

Relationship performance among entrepreneurs has become a long thought and attention by practitioners and scholars for its role in the development effort. Medlin (2003) emphasized relationship performance as "an achievement in economic terms as a result of entrepreneurship networking". Ural (2008) in a previous study on the effect of relationship quality also found positive and significant on export performance. Tom & Bill (2002), Daniel (2012) and Kuo Chung Shang & Chin Shan Lu (2012) found that the performance of business relationship brought significant and positive impact on their performance.

# 2.2.3 Firm Performance

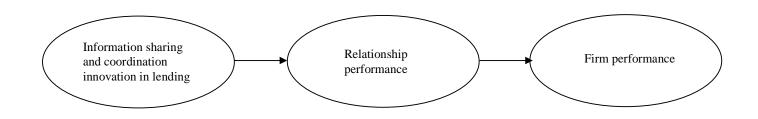
Firm performance is defined as the extent in which a firm can achieve success (Shankar *et al.*, 2010). Morgan *et al.*,(2004) define economic performance of the firm as the point to which firms attain their outcome relating to the competitors in conditions of sales, market share, profitability, and sales returns from new products. Previous studies had engaged a diversity of financial instruments such as income, cash flow, return on assets and equity, and so forth to review a firm's performance (Haber *et al.*, 2005). Meanwhile, Murphy *et al.*, (1996), in his 51 published entrepreneurship examination studies using performance as the dependent variable, found that most of the considered extent of performance are related to efficiency, growth, and profit. Kim (2011) developed performance by measuring sales per employee, total assets, and operation profit ratio.

# 2.2.4 Theory Background

Wernerfelt (1984) claimed that a company has assets in the form of tangible and intangible assets which are attached to the company. In relation to the resource-based view theory, it explains that a company is uniquely caused by specific assets and services. Penrose (1959) further asserted that a firm is unique because of its typical services offered and asset belonging. The idea concluded that in order to gain competitive advantage the tangible and intangible assets were crucial propositions for achieving the competitiveness. In this case,a

collection of resources in use includes managerial and entrepreneurial skills (Penrose, 1959 and Siddhartha, 2011).

# **Figure.1 Conceptual framework**



## 3. Research Methodology

#### 3.1 Data Collection

By using Slovin method in determining the amount of random sampling, the primary data collection process utilized survey method as it has been done by previous studies (Mukhamad *et al.*, 2011; Rosli *et al.*, 2012 and Ferri *et al.*, 2012).Primary data were collected using questionnaires with 5 (five) point likert scale from least emphasized to most emphasized. Meanwhile, secondary data were collected from relevant information gathered through appropriate agencies in the Department of Industry and Trade of Indonesia (2013).

As described in Table 1, the respondents were small and medium enterprises (SMEs) in all sectors that still operated actively in the region of Yogyakarta and its surroundings. Measurement limitation of SMEs is enterprises that engaged in the products and services sectors that have a workforce of less than 100 workers (Indonesian Central Bureau of Statistics & The Ministry of Cooperatives and Small and Medium Enterprises, 1995).

| No | Sectors (unit) | 2008   | 2009   | 2010   | 2011   | 2012   |
|----|----------------|--------|--------|--------|--------|--------|
| 1  | Medium         | 1,296  | 1,548  | 1,820  | 1,999  | 2,142  |
| 2  | Small          | 31,119 | 33,425 | 35,296 | 36,607 | 37,582 |
|    | Total          | 32,415 | 34,973 | 37,116 | 38,606 | 39,724 |

Table1The number of licenced SMEs in Yogyakarta Special District Indonesia

Source: Industry trade department of Indonesia (2013).

#### 3.2 Respondents' Profile

Distribution of the sample referring to the total number of employees, industry sector, and firm's age is shown in Table 2. As observed in Table 2, in terms of the total number of permanent (full time) and non-permanent employees, that the percentage of SMEs that hired 1 - 10 employees was the highest (90%), and the SMES were usually run by family members of the owners. Thus, the SMEs who hired more workers tend to be more professional and managed officially. Surprisingly, there were various SMEs in terms of industry sectors involved in this study. Food and beverage entrepreneurs formed the majority of the respondents (31%), followed by clothing (21%) and electronic (11%) industries. Table 2 also demonstrates that other industries with different characteristics such as photocopy services and stationaries, household and grocery, as well as shoe stores, were represented by 4% of the total establishments. Other industries include financial services, souvenir and handbag handicraft stores, as well as laundry services. As seen in Table 2, for firms'age,

most SMEs were individual private companies that have existed for several years. Nonetheless, most of them were engaged in trading. Overall, around 92% SMEs have been in the business for1-15 years.

| Table2 Profile of the respondents (SMEs)     |             |            |  |  |
|--|-------------|------------|--|--|
| Characteristics                              | SMEs (unit) | Percentage |  |  |
| Total number of permanent(full time) and     |             |            |  |  |
| non-permanentemployees                       |             |            |  |  |
| 1-10   | 93          | 90%        |  |  |
| 11-20  | 6           | 6%         |  |  |
| 21-30  | 4           | 4%         |  |  |
| Total respondents                            | 103         | 100%       |  |  |
| Industry sector (unit)                       |             |            |  |  |
| Food and beverage                            | 32          | 31%        |  |  |
| Clothing                                     | 22          | 21%        |  |  |
| Electronic                                   | 11          | 11%        |  |  |
| Photocopy services and stationaries          | 6           | 6%         |  |  |
| Household stores                             | 4           | 4%         |  |  |
| Grocery retailers                            | 4           | 4%         |  |  |
| Shoe industries                              | 3           | 4%         |  |  |
| Others                                       | 21          | 21%        |  |  |
| Total respondents                            | 103         | 100%       |  |  |
| Firms' age (years)                           |             |            |  |  |
| 1-5  | 43          | 42%        |  |  |
| 6 -10  | 34          | 33%        |  |  |
| 11-15  | 18          | 17%        |  |  |
| 16-20  | 6           | 6%         |  |  |
| <20  | 2           | 2%         |  |  |
| Total respondents                            | 103         | 100%       |  |  |
| $S_{\text{outpool}}S_{\text{outpool}}(2014)$ |             |            |  |  |

Table2 Profile of the respondents (SMEs)

Source:Survey (2014)

#### 3.3 Measurement of Independent, Mediator, and Dependent Variables

Formulation of measurement variables is based on the adoption of prior literature studies. Variables measured in this study consist of three main variables. First, independent variable consists information and coordination innovation in terms lending. Second, the relationship performance between SMEs and financial institutions (bankings) was the mediator variable and third, firm performance was the dependent variable. By using questionnaires with 5 (five) point likert scale scores, the independent variable was measured by the application of available technology, research and development (R&D), as well astypical method used by the respondents adopted from (Kongmanilaa & Takahashib, 2009 and Ferri et al., 2012), which referred to loan of product knowledge, monitorings and proposal that consists of 8(eight) items of constructs. The mediator variable adopted from Medlin (2003); Daniel (2012) and Tom & Bill (2002) referred to trust, quality relationship, responsiveness, information sharing, long-term relationship orientation, and commitment in solving problem for both SMEs and bankings that consists of 7(seven) items of constructs. Meanwhile,SMEs' performance as a dependent variable was adopted from Kongmanila & Takahashib (2009), Murphy et al.,(1996) and Mukhamad et al., (2011) by using profitability, sales volume,market share, numbers of customers and sales frequency.

# 4. Data Analysis and Findings

# 4.1 Reliability and Normality

The reliability of a survey instrument is generally defined as "the accuracy, stability and relative lack of error in a measuring instrument" (Burns, 2000). The Cronbach's alpha measures the instrument's internal consistency, and an alpha coefficient of 0.7 is quoted as the minimum acceptable level (Pallant, 2005).

A perfect normality of data distribution can also be indicated by values of kurtosis and skewness. If the values of skewness and kurtosis are between -2.00 and +2.00, that means the normality of the data distributionis considered acceptable(George & Mallory, 1995). The following values in Table 3 indicated that the coefficient of cronbach's alpha for the variable of information sharing and coordination innovation in lending, relationship performance, and firm performance were above 0.8. And the values of skewness and kurtosis were found between -2.00 and +2.00.

| Table 3 Reliability of | of the constructs a | and normality ( | of data distribution |  |
|------------------------|---------------------|-----------------|----------------------|--|
| Variables              |                     | Numbor          | Cronhooh's           |  |

| Number Cronbach's |       | Normality                 |  |
|-------------------|-------|---------------------------|--|
| of items          | alpha | Skewness                  | Kurtosis   |
| 8                 | 0.925 | 0.234                     | -0.482   |
|                   |       |                           |  |
| 7                 | 0.896 | -0.319                    | 0.329  |
| 5                 | 0.919 | -0.030                    | 1.069  |
|                   |       | of itemsalpha80.92570.896 | of items alpha Skewness   8 0.925 0.234   7 0.896 -0.319 |

Source: Analysis result (2014)

# 4.2 Structural Model Test

Structural model test can be used to ensure a causal relationship model among independent, mediator and dependent variables. The following Table 4 generated by AMOS.21 showed the result of the fitness of the available data with the model. It was indicated that the degree of freedom had a positive value of 1 and goodness of fit index (GFI), as well as normed fit index(NFI) approached 1 or above 0.90. Hence, it can be concluded that the structural model test is acceptable (Singgih, 2012).

| Value |
|-------|
| 1     |
| 0.965 |
| 0.948 |
|       |

Source: Analysis result (2014)

## 4.3 Findings

As addressed earlier, the implied objective of the study was to investigate the innovation in lending that leads to the performance of SMEs. The following estimation, generated by AMOS. 21 shown in Table 5, had found that the effect of information and coordination innovation in lending and relationship performance led to the growth of SMEs. It was found that information and coordination innovation in lending affected significantly at the level of P value 0.001 on the relationship performance. Whilst the relationship performance also significantly affected firm performance at the level of P value 0.001 on firm performance. Table 6 emphasized the significancy.

|   |   |   | Estimate | S.E.  | C.R.  | Р   |
|---|---|---|----------|-------|-------|-----|
| Relationship performance                    | < | Information and coordination in lending | 0.488    | 0.066 | 7,421 | *** |
| Firm performance                            | < | Relationship performance                | 0.370    | 0.041 | 9,098 | *** |
| Source · Analysis result (2014) 0.001 · *** |   |   |          |       |       |     |

Source : Analysis result (2014). 0.001 :

| Table.6 Indirect effects                    |   |                          |  |  |
|---|---|--------------------------|--|--|
|   | Information and coordination<br>Innovation in lending | Relationship performance |  |  |
| Relationship performance                    | 0.000   | 0.000                    |  |  |
| Firm performance                            | 0.181   | 0.000                    |  |  |
| Source · Analysis result (2014) 0.001 · *** |   |                          |  |  |

Source : Analysis result (2014). 0.001 :

#### 5. Discussion

Referring to the objective of the study, as shown in the table.5 and table.6, the effect of information and coordination innovation in lending on the relationship performance was found significant. These specified results were fortified by the previous findings that intangible information capability become determinant factors for information technology implementation which in turn can affect performance (Ravichandran & Chalermsak, 2005). Maria & Fern'andez (2006) further suggested that the innovation usage by internet was able to facilitate the internationalization process of SMEs and amend better relationship with other firms within the same value chain. Nada (2008) found that emphasizing in coordination will manage competitiveness in both strategical and operational benefits. The use of internet in information sharing and coordination innovation was capable of enhancing cooperation ability with business partners (Lancioni et al., 2000 and Campo et al., 2010). The relationship between the relationship performance and firm performance was found significantly relevant with past studies of Tom & Bill (2002) and Daniel (2012) that relationship performance bring economic benefits of firms. Trust, quality relationship, information sharing, long-term relationship orientation, responsiveness, and commitment could generate competitiveness of SMEs. By emphasizing on responsiveness of customers and profit information sharing were significantly found supporting on the perceived financial performance and growth (Kuo Chung Shang & Chin Shan Lu,2012).

# 6. Conclusion

The role of small and medium enterprises (SMEs) in contributing economic growth is important. However, as information sharing and coordination innovation among channel members within the same value chain were essential in improving performance, the findings of this study further confirmed that the effect of information and coordination innovation on relationship performance between SMEs and financial institutions (bankings) as business partners was found led to SMEs growth. It was indicated that the innovation could enhance competitiveness among channel members and significantly improved the relationship performance which led to the growth of SMEs. By considering the relationship the problems of SMEs in Indonesia regarding capital access can be solved by applying information and coordination innovation in lending with financial institutions (bankings).

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