

Effect of Product Innovation, Value Co-Creation

by Rahmawati Rahmawati

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Effect of Product Innovation, Value Co-Creation, Market Sensing on Firm Performance Bateeq Indonesia

Herning Indriastuti

Department of Management
Faculty of Economics
Mulawarman University, Indonesia
herning_2002@yahoo.co.id

Rahmawati

Department of Management
Faculty of Economics
Mulawarman University, Indonesia

The aim of this study is to analyse the effect of product innovation, market sensing capability, value Co-Creation on firms performance. SMEs Bateeq firms in Central Java used as a sample. Sampling was done using purposive sampling technique. Data were collected using a questionnaire given directly to the respondents. The total data that can be further analysed as much as 211 respondents. Data analysing using Structural Equation Modelling-SEM with the AMOS program assistance. The result showed that the product innovation has significant effect on value co-creation. In addition, value co-creation to be mediator in relationship product innovation have significant effect on firm performance.

Keywords : product innovation; market sensing capability; value co-creation; firm performance

1. INTRODUCTION

The problem of developing business now is changing of value from firm to customer. The tight competition and limited innovation by the firms, so customers and market have be actors change this situation. Innovation is a key for companies to survive in the midst of competition, making the company grow so much faster, more efficient and more profitable Alpay, *et al* (2012). It is also becoming the way for company to maintain a competitive market Lin *et al*, (2013) increase the value of the product, Aydin *et al*, (2007) a key to compete in global competition Akman and Yilmaz, (2008) to create growth and sustained dynamic performance in a changing environment and it is crucial to improve the competitiveness of the company and the company's firms performance. Competitive capability in the organization is the ability to learn, innovate and respond to global challenges, dynamics, and ambiguity, which is used to develop strategies and make innovation more effective.

Therefore, as a consequence, product innovation is considered as very important for firms performance. Although it is generally, the product innovation

accepted as the main key to achieving better performance, but still there are differences in the results of previous studies on the relationship between product innovation and firms performance Hoonsopon and Ruenrom, (2012), Avlonitis and Salavou, (2007), Akgun, *et al* (2009) dan Augusto, *et al* (2011) in contrary case study found between product innovation and firms performance have not significant Fu, *et al* (2008), Al-Zyadaat *et al*(2012).

Innovation is essential for the firm survive. What did it to do ? Co-creation as problem solving for the firm survive. In particular, cooperation through co-creation would facilitate access to new resources and intangible capabilities, innovation and greater adaptation to enormously dynamic environments organizations need to take advantage of the involvement of customers and other stakeholders because they can offer new and unique resources, such as knowledge and experience Ford, *et al*. (2011). However, although this is a very topical subject, there has been insufficient research in the field of industrial marketing on procedures and methods for establishing effective processes of co-creation to encourage innovation in the development of solutions and to promote market sensing. This article aims to contribute by analysing how the co-creation of value can influence the companies firm performance and how market sensing affects value co creation? In particular, we aim to answer the following questions. How is it possible to create product innovation and market sensing through co-creation enhance firm performance?

2. THEORETICAL FRAMEWORK AND HYPOTHESIS

In order to answer these questions, we use social exchange theory (SET in advance) and that grew out of the resource-based view (RBV), as well as the marketing approach called service dominant- Logic (SD-L below). The combination of these approaches enables us to consider the dual challenge associated with the above questions – on the one hand encouraging cooperation and, on the other, managing relations to seek mutual benefit.

With the above aim, we present a qualitative research carried out in different count RBV, on the other hand, sustains that differences in performance can be attributed to the possession of a set of unique resources that are strategically valuable Barney, (1991) It includes the role taken by customers and other stakeholders (suppliers, distributors, border agents) when drawing up solutions, called co-creation Prahalad and Krishnan. (2008) The criterion behind this principle is that value is created collaboratively through mutual exchange interactions in general and service in particular, argue that value is co-created by multiple actors through processes of exchanging and integrating public, private, and market-facing resources Vargo *et al.*, (2008). S-D logic argues that value is always co-created, jointly and reciprocally, in interactions among actors through the exchange of service (i.e. applied resources such as competences and skills) Lusch and Vargo(2014); Vargo and Lusch (2004)

Payne *et al.* (2008). The analysis lead to suggestion that co-creation includes: (1) active involvement between at least two actors; (2) integration of resources that create mutually beneficial value; (3) willingness to interact and (4) a spectrum of potential form of collaboration. Based on these factors Goornroos (2008) analyzed value co-creation process and provide (1) active involvement; (2) integration of resources that create mutually beneficial value; (3) willingness to interact and (4) a spectrum of potential form of collaboration. In the process of co-creation both customer and organization are equally important. Through interaction, the organization gets an opportunity to influence the customer value creating process value creating processes (customer process and organizational process) are merging into.

Sensing capability is defined as the ability of a firm to sense and identify opportunities and options in its scanning, searching and exploring across technologies and markets for its new product development Zhang and Wu (2013) Sensing capability in scanning, searching, and exploring across technologies and markets for product innovation, we are capable of exploring opportunities and options, detecting new opportunities and product solution options, spotting new technology possibilities, identifying trends in customer needs.

Based on the inconsistencies effect of product innovation and firms performance in the previous studies, this study conduct to analyze the role of value co-creation in mediated the relationship of product innovation, market sensing and firms performance.

3. CONCEPT DEVELOPMENT AND HYPOTHESES

3.1 Product Innovation and Value Co-Creation

Value co-creation is a coalition of different economic actors for reconfiguration and integration competence to generate shared value. Saarijärvi, *et al* (2013) explain that the value co-creation has always two sides, which are value creation based on the perspective of corporate and customers. Both parties then provide resources in order to process of value creation by integrating the resources of each party through the mechanism of co-design, co-development, or codistribution.

Value creation is a concept which describes the firms' efforts to deliver superior performance for the desired customers through innovation. Innovation enables companies to update their products with the attributes that ultimately meet the needs of customers more than existing products O'Cass and Ngo (2012). Value creation was concept to create superior performance for customer O'Cass and Ngo (2012). Parthasarathy, *et al* (2011) found that product innovation is an instrument to the creation of value. Vargo, *et al* (2008) states that value creation is a core purpose and central process of economic exchange. Value is co-created by this reciprocal and mutually beneficial relationship.

Hypothesis 1: The higher the product innovation, the higher the level of value co-creation

3.2 Value Co-Creation and Marketing Performance

The benefit Value co-creation made the maximal capital increasing for the firms. Studi Aspara and Tikkanen (2012) had two strategies value creation as value capture – strategies that ensure that the maximum value of the portion captured or provided by the firm itself in the form of profits, instead of members of the value chain or competitors. Meanwhile, value creation - as a strategy that refers to the value of the utility (benefit) in which products or other offers of the company created by the customer. They hypothesized that the emphasis on value capture strategies has a negatively affect on firms performance, while the emphasis on value creation strategy has a positive effect on firm performance. The results of the study Aspara and Tikkanen (2012) showed a positive and significant effect of the emphasis on value creation strategy on firm performance, while the emphasis on value capture strategies has no significant effect on firms performance. Similar results were also found by Sullivan, *et al* (2012) that positively influence the value creation on firms' sales performance.

Hypothesis 2: The higher the level of value co-creation, the greater the firms performance

3.3 Product Innovation and Firms Performance

Avlonitis and Salavou (2007) stated that the innovation of products consist of uniqueness and newness in small and medium enterprises (SMEs) has positive and significant impact on the performance of firms. It was proved from the market share and sales volume. Research studies Lau *et al*, (2010) suggested that product innovation is a source of productivity and agent of organizational change for companies to survive, because only companies with full and powerful products innovation will open up greater opportunities for challenging products marketing with competitors. This research was supported Prajogo, (2006), Bates and Khasawneh, (2005), Akman and Yilmaz (2008), Rosli and Sidek (2010)

Hypothesis 3: The higher the product innovation, the greater the firms performance.

3.4 Market Sensing and Value Co-Creation

The experience of provides a clear illustration of how a market oriented firms creates value for both customers and shareholders. This paradigmatic transformation requires changes in the way companies are organized to create and deliver value to their customers. Business marketers have to continuously increase their contribution to the value chain. Tournois (2013) with data collected from 55 companies, involving 146 managers and 425 consumers of

branded products that these companies sell, indicate that market orientation correlates with customer value and result statistically significant

Hypothesis 4: The higher the market sensing, the greater the level value co-creation

3.5 Market Sensing and Firm Performance

Market sensing is organization capability for changing market and predicting accurate market response, as potential organization development to enhance firm performance Foley and Fahy (2004). According Teece (2007) the firms done searching, sensing and adventuring for the firms investigated customer, industries structure, technology and new opportunity. So the firms need good sensing from market or customer increasing the change event and trend, activity for searching new informasion which firms competitive. The good sensing made efectively and identification new knowledge Sin, *et al* (2005) market sensing made superior value and continuitas of performance

Hypothesis 5 : The higher the market sensing, the greater the firms performance

4. RESEARCH METHOD

4.1 Sample and Data Collection

The role of value co-creation done in bateeq industries as Bateeq Tiga Negeri in Central Java, Indonesia which collaboration three bateeq with producen, supplier and customer. They regional from Lasem, Pekalongan and Surakarta as population. One bateeq three collaboration with three motive from three places to do co-creation created. The sampling technique is done by using a purposive sampling technique, where long time of firms operating as a requirement for sampling. Data is done by providing direct questionnaire developed the 211 respondent business owners. The data were analyzed using structural equation modeling with AMOS program assistance.

4.2 Data Analysis

- Validation of the data collected is done with the data of 211 questioner collected and data that can be used for futher testing. Thus, the analysis of hypothesis testing can be done. The results of hypotheses testing based on hypotheses that have been formulated can be seen in the following figure. Indicator product innovation level of uniqueness, novelty, and develop product creative collaboration, develop the old design for a new product (Killa, 2014). Indicator value co-creation mutual exchange interactions, willingness to interact and a spectrum of potential form of collaboration Payne, *et al* (2008). Market sensing indicator : exploring opportunities and options, detecting new opportunities, spotting new tecnology possilities, sensing trend customer needed Zhang and Wu (2013). Firm Performance is sales volume, sales growth, new customer level Avlonitis and Salavou (2007)

Tabel. 1
Scale & Measurement – Construct Validity

Indikator	Standardized Loadings	α	CR
Product Innovation : <ul style="list-style-type: none"> • Level Product uniqueness • Product novelty to get other new idea • Develop product creative collaboration • Develop the old design for a new product 	0.72 0.76 0.75 0.75	 .83	 .83
Value Co-creation : <ul style="list-style-type: none"> • Mutual exchange interaction • Sharing information and knowledge • A spectrum of potential form of collaboration • Willingness to reciprocal interact 	0.80 0.76 0.81 0.77	 .86	 .87
Market sensing : <ul style="list-style-type: none"> • Exploring opportunities and options • Detecting new opportunities • Spotting new tecnology possibilities • Sensing trend customer needed 	0.69 0.72 0.67 0.64	 .77	 .84
Firm Performance: <ul style="list-style-type: none"> • Sales volume • Sales growth • New customer level • New area level for sales 	0.74 0.81 0.80 0.79	 .86	 .88

4.3. Reseach Finding

The research used estimation of Coeffisient Cronbach's Alpha (α), Composite Score Reliability (CR) and Average Variance Extracted (AVE) to construct reliability assessment. Statistical results for all database with a value of alpha and the value of the composite reliability (CR) must be above 0.7 (see table 2). Value of Average Variance Extracted (AVE) is recommended to be above 0.5. Table 2 shows the measurement scales, confirmatory factor analysis and reliability. Cronbach's alpha Coeffisient and AVE estimation was also done by Sobel test to determine whether the value co-creation would fill the gap between product innovation and firms performance or not. Sobel test would also be used to

comprehend the influence of market sensing toward firms performance. Sobel will be of significant value when Sobel test has a value of > 2 and a two-tailed probability < 0.05 (Soper, 2016).

The statistical results shows that the product innovation, market sensing capability have positive and significant impact to the value co-creation, as well as product innovation, market sensing capabilities have positive and significant impact on the firms performance. Statistical results are presented in Table 2 below:

Tabel. 2 Regression Weight

			Estimate	S.E.	C.R.	P	Label
Value_Cocreation	<--	Product_Innovation	,370	,083	4,462	***	Significant
Value_Cocreation	<--	Market_Sensing	,387	,086	4,522	***	Significant
Firms_Performance	<--	Value_Cocreation	,594	,158	3,764	***	Significant
Firms_Performance	<--	Product_Innovation	,248	,105	2,369	,018	Significant
Firms_Performance	<--	Market_Sensing	,268	,108	2,486	,013	Significant

4.4. Measurement validation

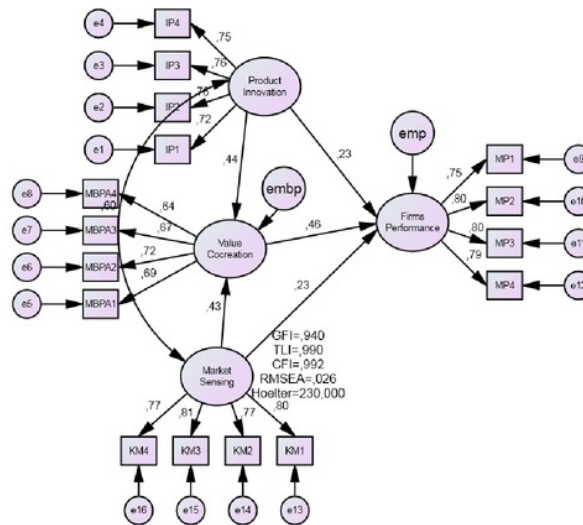
Measurement model was using AMOS 20 by applying the maximum likelihood (ML) procedural. The statistical results with a model that is fit Chi-square = 111.53, $df = 98$, $CMIN / DF = 1.138$, $GFI = 940$, $TLI = 990$, $CFI = .992$, $RMSEA = .026$, $Hoelter = 230$. Value of Sobel test > 2 and two-tailed value < 0.05 which means significant.

Multi-items analyzed by estimated factor loading, Cronsbach alphas, Composite Reabilities (CR) and Average Variances Extracted (AVE). All results are positive and significant factor loading ($p \leq .05$) Cronsbach alphas, Composite Reabilities (CR) range of .77 to .86 and .83 to .88 all values above 0.7. Lastly, AVE all cases above 0.5. And all the indicators and construct reliability on the results support of this study. Hoelter value > 200 at a rate of .01 and .05 then the model is considered fit, and the sample number 211 is considered sufficient to make the model fit. Results Sobel test = 2,544 and two-tailed value of < 0.05 , it means that the value of Sobel test between product innovation and firms performance is capable to be mediated by value co-creation. Sobel test also shows value co-creation is able to mediate between the market sensing capabilities and firms performance.

4.5 Structural Model

Final results of the study has shown structural models of the relationship between dependent and independent variables with a satisfactory value or goodness-of-fit. Model Chi-square = 111.53, df = 98, CMIN / DF = 1.138, GFI = 940, TLI = 990, CFI = .992, RMSEA = .026, Hoelter = 230.

Fig. 1
Full Structural Model



Output regression coefficients are shown in Table 1, indicating a strong correlation for all the hypotheses that have been tested. Hypothesis test produces a positive and significant correlation between the influence of product innovation to the value co creation (H1 supported), market sensing capability has a positive and significant relationship to advantage of value co creation (H2 supported). Value co creation has a positive and significant impact with firms performance (H3 supported). Product innovation has a significant positive effect on the firms performance (H4 supported). Market sensing capability has a positive and significant relationship to the firms performance (H5 supported).

5. DISCUSSION AND IMPLICATION

5.1 Discussion

- The results of this study confirm the argument that product innovation is a consequence of the pursuit of performance and prove that product innovation which is indicated by level of uniqueness, novelty, develop product creative collaboration and develop the old design for a new product could improve firms performance Zhang and Wu (2013). Further product innovation also have significant positive effect on value co-creation, which has the meaning that the higher the firms in creative industries improve their product innovation, the value co-creation will increase. Thus, these results support the view that the value co-creation can be obtained through product innovation Parthasarathy *et al* (2011). The analysis indicates a positive and significant effect of value co-creation on firms performance, which means that the higher the level of value co-creation is done the firms in the bateeq industry will increase firms performance. These results confirm the argument of Gulati, *et al* (2000) and Payne *et al.* (2007) that the value creation in the networking impact on enterprise performance improvement. This finding provide strong support for the importance of product innovation and value co-creation in improving firms performance evidenced a significant positive effect of on product innovation and a significant positive effect of product innovation on firms performance. On the other hand the results of this study confirm the importance of value co-creation as an important aspect of relationship product innovation and firms performance, which proved the positive effect of product innovation on value co-creation, and the positive effect of value co-creation to firms performance.

5.2. Managerial Implication

The results of this study provide two possible alternative to be done by the owners of small and medium enterprises in the bateeq industry in Indonesia is the first, managing product innovation by increasing the uniqueness of the product, including the attributes of the product, increasing the variance motive of the product continuously, and increasing quality product. With increasing product innovation can increase the firms performance. The second alternative is using the value co-creation approach with customers to achieve high firms performance. Owners can manage value co-creation by increasing the responsiveness to changing in customer' demand, increasing flexibility to changing customer needs, and deliver quality product to customers. The value creation occurs when product innovation improved.

5.3. Conclusion

Results of this research indicate the important role of the value co-creation in bridging the gap between the product innovation and firms performance. Even though there was researches result claimed that there is contradiction between product innovation and firms performance by the study of Yalcinkaya *et al*, (2007), Fu *et al*, (2008), Al-Zyadaat, *et al* (2012), results of this contradiction is concluded with clear statement that value co-creation are able to mediate the gap between product innovation and firms performance. Value Co-creation are also capable of mediating market sensing capability to increase firms performance. And 5 results supported the hypothesis stated. .

5. 4. Future Research

To win the global business competition bateeq SMEs must be able to innovate in order to improve firms performance. Bateeq SMEs should be able to continue product innovation to survive. Surely, it is better when bateeq SMES are also able to make their own branch label to simplify consumers in identifying products of bateeq SMEs in the market. Finally, this research gives focus on the bateeq SME industries in Indonesia, to develop new strategy of Indonesian SMEs marketing in the future. Hopefully, the next research about advantage of Value co-creation will be applied to other industries such as the bateeq industries to perfectionate patterns against other products.

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