

Business Model for the Sharing Economy between Enterprises

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Abstract: - Because of the recession of the world economy, small businesses, which are less competitive than large enterprises, encounter many problems in securing their required labor force, capital, technology, among others. Recently, a study to introduce the concept of Sharing Economy to the transactions between enterprises was carried out to solve the aforementioned problem. To introduce the sharing economy, small enterprises require a business model that can explain, visibly and concretely, its economic benefits and utility through the sharing economy. However, because most previous studies on the sharing economy were for transactions between individuals, or between an individual and an enterprise, and also the business model suitable for the transactions between an individual and an enterprise formed the main stream among those models that applied the sharing economy, it is a difficult to introduce the sharing economy between enterprises.

In this study, a business model, which can be considered as a blueprint to introduce the sharing economy to business between enterprises, is presented. For this purpose, the previous documentary researches on the said business model will be analyzed and the common factors that form the business models will be derived. On the basis of the preceding studies on the common factors of business models and the sharing economy between enterprises, the business model that can be introduced to the sharing economy between enterprises will be designed. In addition, the designed business model for the sharing economy between enterprises will be validated through a case study.

Key-Words: - Business Model, Sharing Economy, Case Study

1 Introduction

The sharing economy, which was first mentioned in 2008 by Prof. Lawrence Lessig, Harvard University, means the collaborative consumption made by the activities of sharing, exchanging, and rental of resources without owning the goods. This sharing economy began to spread widely by sharing the unused resources between individuals [1]. In the current sharing economy, the type of resource that can be shared was extended to intangible resources and the objects of the shared economy were also extended to the enterprises that connect consumer to consumer (C2C) and supplier to consumer (B2C).

Recently, a study is being conducted to apply the sharing economy between enterprises. In the study by Minje Cho et al. (2013), based on the definition of the sharing economy between individuals defined by the preceding studies, the sharing economy

between enterprises was defined as “collaborative activities to lend unused goods and services, which are expected to be in excess if individual enterprises own them, owned by an enterprise to another enterprise, or to invest and use the goods and services jointly with another enterprise” [2].

These concepts of the sharing economy between enterprises are suggested as an alternative to solve various difficulties that small businesses encounter nowadays. This has the objective to share the excess resources between small businesses by introducing the sharing economy and to enforce their competitiveness through the cost reduction and the realization of the economy of scale. [2] It may be considered as a new type of business consequently.

A business model is a blueprint and scenario on which an enterprise shall perform its business [3][4]. Only through the well-prepared business model can an enterprise operate its business successfully.

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The purpose of this study is to design the business model for the sharing economy between enterprises. For this, the concepts of business models mentioned in the existing literature are arranged and their constituent factors will be reviewed. Based on the above, a business model that reflects the characteristics of the said business models is suggested. Then, it was validated through the case study on the type of enterprise that can be considered as an example of the sharing economy between enterprises.

2 Theoretical Background

2.1 Definition of Business Model

Since the mid-1990s, the concept of business model has spread with the development of the Internet and various studies began to define the concept of a business model on the basis of the Internet business [5]. A business model refers to a description of various participants in a business, including their roles, the flow of the goods and services, and the profit [6]. Also, some studies were conducted to define the business models in general industries and non-Internet business, and the business models in general industries may refer to a concise description of methods to make the close relations of decision-making factors the sustainable competitive advantage in the strategy, structure, and economy[7].

With this, there were many studies and efforts to define the business models in various industries and viewpoints. In the study by Zott et al. (2010), the concepts of business models defined by these various viewpoints were arranged, which can be summarized as the informative description of business [8][9], the explanation of business [7], the conceptual tool [10], the template of structure [11], and the framework [12]. Although there are differences in explanation of the business model among diverse industries and viewpoints, a business model is a blueprint of a business that explains how the business is carried out.

2.2 Constituent Factors of a Business Model

Early studies on a business model mainly dealt with the types of business, along with the definition of the business model [6][13]. However, types of business could neither understand the principles of business operation, nor could it contribute to designing the new business model. Thereafter, the main stream of study on business models was concentrated in defining and explaining its constituent factors [4]. Johnson et al, (2008) defined a business model as interlocking of the constituent

factors in business. Also, he said that to design a successful business model, the method that can satisfy the customers and the business factors should be explained first, and proposed the constituent factors from four viewpoints largely, such as Customer Value Proposition, Profit Formula, Key Resource, and Key Processes [14]. In addition, other various researchers also mentioned the constituent factors of business model to explain the business from diverse viewpoints and defined business model. In this study, to design the business model for the sharing economy between enterprises, it is necessary to deduct the constituent factors that can explain the business of sharing economy. For this purpose, the constituent factors mentioned in the preceding literature were all collected and compared with each other to arrange the common constituent factors.

2.2.1 Common Constituent Factors of Business Model

To design a business model for the sharing economy between enterprises, existing documents that defined the concept of a business model were reviewed. Among the documents mentioned about constituent factors, eight papers were arranged, and all the constituent factors mentioned in the relevant documents were collected and divided by terms of similar meaning and levels of range of business factor explained by the terms.

The constituent factors of business model commonly mentioned by preceding studies can be largely divided into eight factors, such as Customer Value Proposition, Financial Profit and Loss incurred from Business Operation, Necessary Resources for Business Operation (Human Resource, Technology, Etc.), Business Operation Procedure (Work Process, Business Management, Etc.), Target Customer in Business, Exterior Cooperation, and Logistical Flow in Business. The documents and the terms mentioned in the documents are as follows:

Table 1 Documents and terms that mentioned Customer Value Proposition as the constituent factor

| | First order concept | Second order concept |
|------------------------------|-------------------------------------|-------------------------|
| Johnson et al. ,. (2008)[14] | Customer Value Proposition | Job to be done Offering |
| Timmers, (1998)[6] | Architecture of Product and service | - |
| | A description of the sources of | |

| | | |
|-----------------------------|-------------------|---|
| | revenues | |
| Stewart and Zhao(2000)[15] | Value Capture | - |
| Zimmerman(2001)[16] | Mission | Value Proposition Including the basic product and service |
| Applegate(2001)[8] | Business Concept | Product and services |
| Osterwalder et al(2010)[17] | Value Proposition | - |

In Table 1, the documents and the terms that described the value proposition from business as the constituent factor were arranged. Most documents consider the objectives of the value incurred from business as the target customers of business and define them as the goods and services delivered to them and solution of customer problems.

Table 2 Documents and terms that mentioned Financial Flow as the constituent factor

| | First order concept | Second order concept |
|----------------------------|---------------------|--|
| Johnson. (2008)[14] | Profit formula | Revenue Model cost, Margin |
| Mahadevan(2000)[18] | Revenue Stream | |
| Zimmerman(2001)[16] | Revenue | - |
| Applegate(2001)[8] | Value | Benefits returned to stakeholder, firm Financial Performance |
| Ostwarder et al.(2010)[17] | Cost Structure | - |
| | Revenue Stream | |

In Table 2, the documents and the terms that mentioned the financial flow from business as the constituent factor were arranged. The financial flow from business is largely divided into two kinds, such as the expenditure incurred from business operation and the profit obtained from the business.

Table 3 Documents and terms that mentioned Resources as the constituent factor

| | First order concept | Second order concept |
|---------------------|---------------------|--|
| Johnson. (2008)[14] | Key Resource | Technology Equipment Information, people |

| | | |
|------------------------------|--------------|---|
| | | brand |
| Applegate(2001)[8] | Capabilities | People, Infrastructure model reputation and brand |
| Osterwalder et al.(2010)[17] | Key Resource | - |

In Table 3, the researchers and terms that described the necessary resources for business operation as the constituent factors were arranged. In the relevant documents, resources were described mainly as technology, equipment, human resources, etc.

Table 4 Documents and terms that mentioned Business Operation Procedure as the constituent factor

| | First order concept | Second order concept |
|------------------------------|---------------------|---|
| Johnson. (2008)[14] | Key Process | Process |
| Zimmerman(2001)[16] | Process | - |
| Applegate(2001)[8] | Capabilities | Management model Operating model Business development model Marketing sales model |
| Osterwalder et al.(2010)[17] | Key Activities | - |

In Table 4, the researchers and terms that described the business procedure as a constituent factor were arranged. It includes the procedure of creating business value in business activities, while Johnson et al. (2008) defined business activities as the form that includes not only value-creating procedure but company regulations, lead time, and business standard, and Stewart and Zhao (2000) described these business activities as “Scope and the Organization of the value” in the wider form from business organization to value delivery[14][15].

Table 5 Documents and terms that mentioned Target Customer as the constituent factor

| | First order concept | Second order concept |
|------------------------------|----------------------------|----------------------|
| Johnson. (2008)[14] | Customer value proposition | Target Customer |
| Osterwalder et al.(2010)[17] | Customer segment | - |

| | | |
|----------------------------|--------------------|---|
| Stewart and Zhao(2000)[15] | Customer selection | - |
|----------------------------|--------------------|---|

In Table 5, the documents and the terms that described the customers consuming the value created from business were arranged. These consumers gladly pay the expense to consume the Value Proposition.

Table 6 Documents and terms that mentioned Outside Business Cooperators as the constituent factor

| | First order concept | Second order concept |
|-----------------------|---------------------|-----------------------|
| Johnson(2008)[14] | Key resources | Partnership alliances |
| Applegate(2001)[8] | Capabilities | Partners |
| Osterwalder(2010)[17] | Key Partnership | - |

In Table 6, the documents and the terms that described the cooperators outside the business as the constituent factor were arranged. Those resources that cannot be resolved within business are obtained from the exterior suppliers.

Table 7 Documents and terms that mentioned Distribution Channel as the constituent factor

| | First order concept | Second order concept |
|-----------------------|---------------------|----------------------|
| Johnson(2008)[14] | Key resource | channel |
| Mahadevan(2000)[18] | Logistical stream | - |
| Osterwalder(2010)[17] | Channel | - |

In Table 7, the documents and the terms, which described the distribution channel explaining how to deliver the value created through business to target customers as the constituent factor, were arranged.

There are other constituent factors mentioned in other documents, such as the legal factor suggested in the study by Alt and Zimmerman (2001)[16], the flow of information suggested by Timmers (1998), and Customer Relationship that explains how to maintain a relationship with customers suggested by Osterwalder (2010)[17]. Osterwalder suggested the method to maintain customer relations as the answers to the following two questions, first, “What method should we use to maintain continuous relationship with our customers?” and second, “How do the customers want to maintain a relationship with us?” In short, maintaining a good relationship is the exchange of information between the enterprises and customers for continuous business. After all, it is the flow of information in its narrow meaning. Although there are various methods and terms to

explain the constituent factors of business model as above, basically, they are considered the similar methods and terms.

Table 8 Osterwalder, A. Peignern Y. Clark, T.(2010), Business Model Generation

| | Explanation |
|-----------------------|---|
| Value proposition | It Seeks to solve customer problems and satisfy customer needs with value proposition. |
| Customer Segment | An Organization serves one or several customer segment. |
| Channel | Value Propositions are delivered customers through communication, distribution, and sales channels. |
| Customer Relationship | Customer Relationships are established and maintained with each Customer Segment |
| Key Resource | Key Resources are the assets required to offer and deliver the previously described elements. |
| Key Activities | By performing a number of Key Activities. |
| Key Partnership | Some activities are outsourced and some resources are acquired outside the enterprise. |
| Cost Structure | The Business model elements result in the cost structure. |
| Revenue stream | Revenue streams result from value proposition successfully offered to customers. |

To sum up, the common constituent factors of business model based on the studies on common constituent factors are similar to the nine major factors suggested in “Business Model Generation” by Osterwald et al. (2010)[17]. In this study, through the constituent factors suggested at Table 8, the constituent factors necessary to form the business model of the sharing economy between enterprises were defined and the relevant business models were proposed.

3 Business Model for the Sharing Economy

As mentioned above, there are few preceding studies on the business model of the sharing economy between enterprises. Therefore, after suggesting the business model for the sharing economy between enterprises based on the constituent factors suggested in Business Model Canvas to deduct the business model and the studies on the sharing economy between enterprises conducted so far, a methodology that suggests a business model for the sharing economy between

enterprises was used, regarded as an example of the sharing economy between enterprises, replenishing the incomplete portion of business model by applying the above business model to the company [19].

Minje Cho et al. (2013)[2], who studied the introductory strategy for the sharing economy between small businesses, derived the definition of the sharing economy between enterprises on the basis of the sharing economy between enterprise and individual, and between individual and individual which occupied most of the sharing economy. The sharing economy between enterprises can be defined as “the collaborative activities to lend the unused goods and services, which are expected to be in excess if individual enterprises own them, owned by an enterprise to the other enterprise, or to invest and use the goods and services jointly with the other enterprise.” At the same time, the sharing economy between enterprises was divided by type and purpose. In this study, business models are suggested as divided into different business types—Type 1 and Type 2. Type 1 is a type of sharing economy in which the excessive goods and services owned by any enterprise are lent to the other enterprise, and Type 2 is another type of sharing economy in which an enterprise invests and uses, jointly with other enterprises, the goods or services that will be expected to be in excess if individual enterprises own them.

(1) Value Proposition

It is a constituent factor to explain which value will be provided to the consumers outside the business. Customer evaluates the utility of value provided by us and determines whether to pay for the expense to use the value. Regardless of the type of sharing economy, target customers who will use the sharing economy evaluate the utility obtained by using the excessive resources. Because of this, the utility can be regarded as a value proposal.

(2) Customer Segment

A customer is the exterior consumer who uses the value provided by any business after paying for the expense. The utility obtained from the value is the purpose of the customer and the customers who are using the sharing economy, regardless of its type, can be sharing users who want to solve the shortage of usable resources at low price.

(3) Key Activity

Key activity can be considered as a constituent factor explaining that activity shall be taken to

“propose value” by a business. In the study by Minje Cho et al. (2013)[2], the processes were suggested by the type of sharing economy. In case of Type 1, any sharing supplier selects the resources to be shared and plans how to share them, and then selects the sharing user. After completion of the sharing activity, they will settle the sharing profit. In case of Type 2, a sharing businessman selects the target of sharing business, constitutes the sharing business, and chooses sharing participants. After conducting the sharing business, there will be the process to settle the sharing business, which will be a key activity of the sharing economy.

(4) Channel

A channel explains how to deliver the utility provided by us. In the sharing economy, a channel is regarded as the explanation on how to deliver the excessive resources to the customers. It belongs to the sharing supply in the case of Type 1 and it belongs to the performance of sharing business in the case of Type 2, which is considered as a key activity.

(5) Key Partnership

Enterprises establish a strategic alliance with the people outside of business in accordance with the purpose to minimize its business costs, to reduce the risks, or to secure the critical resources during the operation of their business. In the sharing economy, the purpose and the type of partnership with exterior partners will be diverse because the performing activities to create value are diversified according to the types. In case of Type 1, as the objective reliance will be a critical factor in the process to explore, to select, and to evaluate the user to share the sharable resources, it requires an intermediary to connect the sharing user and the supplier of sharable resources objectively. In case of Type 2, as it requires the procedure to constitute a new business, it establishes great complicated strategic alliance. There exists the exterior partner, who selects and operates the sharing target business and supplies the resources in shortage, and the investors, who constitute the sharing business and invest the financial and shared resources while requesting their definite shares. In addition, SoonGu Hong et al. (2013)[20], suggested that the roles of the government and municipal government are required to introduce the sharing economy between small businesses successfully. They can be classified as the supporters who invest

resources to the sharing economy without requesting any share in return. Consequently, the intermediary in Type 1 and the investor, the exterior partner, and the supporter in Type 2 can be classified as the Business Actors who establish a partnership and act as a critical factor in the business of sharing economy.

(6) Key Resource

Key Resources mean the resources required for the value proposition and for the key activities. In Business Model Canvas, key resources were classified into four groups by their purposes, such as material resources, intellectual resources, human resources, and financial resources. In the sharing economy, however, they are classified by the use purpose of resources because resources are divided into the resources for sharing or for controlling resources, regardless of types of resources. So, regardless of their types, the resources owned are classified into three aspects, such as the resources for the purpose of sharing, the resources for controlling and supporting the key activities, and the resources for maintaining the relationship with exterior partners of sharing resources.

(7) Customer Relationship

In Business Model Canvas, Customer Relationship was suggested as a constituent factor to explain how to manage the classified customer segments. It will be a constituent factor of a business model that provides the information on the value supplied by the business to each classified customer segment, and is able to explain it to the customers, including how to use them.

Because the concept of the sharing economy initiated from the collaborative consumption called sharing, the continuous relationship with the customers using the resources and with the partners, such as cooperators and intermediaries as well, is important. As the partners are different by type, the managing tools to maintain the relationship are also diverse. These relationships can be divided into the relationship with the intermediary in Type 1 who connects the sharing users with the suppliers of shared resources, and the relationship with the exterior cooperators, the investors and the supporters in Type 2. Consequently, the relationship in the sharing economy can be enclosed by a large category of relationship.

(8) Cost Structure

Cost means all the expenses incurred from the business operation and each cost is divided into fixed cost and variable cost. Even in the sharing economy, it is necessary to explain the cost structure, regardless of its type.

(9) Revenue Stream

Revenue source is a constituent factor obtained as the result of successful supply of the value proposition to the customers. In the sharing economy, the revenue resources vary by the shared resources.

In accordance with the constituent factors in Business Model Canvas and the types of Sharing Economy according to the preceding literature, the constituent factors of business model for the sharing economy between enterprises were derived. They can be summarized as follows:

Table 9 Constituent Factors of Business Model for Sharing Economy

| Category | Class | |
|-------------------|--|----------------------------------|
| | Type1 | Type2 |
| Value Proposition | - | |
| Customer | - | |
| Activity | Key Activity | |
| | Channel | |
| Resource | Resources for Sharing | |
| | Resources for Key Activity | |
| | Resources for Relationship Maintenance | |
| Cost Structure | - | |
| Revenue Stream | - | |
| Business Actor | Intermediary | Exterior Cooperator |
| | | Investor |
| | | Supporter |
| Relationship | Customer Relationship | Customer Relationship |
| | | Exterior Cooperator Relationship |
| | Relationship with Intermediary | Investor Relationship |
| | | Relationship with Supporter |

Consequently, the constituent factors of a business model for the sharing economy between enterprises can be divided into eight large

constituent factors different from nine factors in Business Model Canvas. The constituent factors of the sharing economy between enterprises are Value Proposition explaining the utility obtained from the sharing economy, Customer as the user of sharing economy, Activity explaining the activities to lend the shared resources and let the users use the shared resources, Resource explaining the necessary resources for the sharing economy, Business Actor as the cooperators participating the sharing economy, and Relationship representing the relationship with them and the methods and conditions to cooperate with them. Among the constituent factors of the sharing economy in Type 1 and those in Type 2, there is a big difference in Business Actor and Relationship. The business model of the sharing economy between enterprises can be defined as a document that explains its constituent factors in detail and the interaction among the factors.

4 Case Study

To validate the business model of sharing economy, the existing case similar to the sharing economy was applied. As the existing cases similar to the sharing economy between enterprises, Tech Shop and Cooperative Distribution Center were selected.

Tech Shop is a type of enterprise in which any individual can use the specialized up-to-date machinery, which individuals find hard to handle, and various tools, which are hard to find at home, at reasonably low cost, without buying them. The customers of Tech Shop pay a certain amount, call, and use the up-to-date equipment and tools at the nearer branch office of Tech Shop. Customers visit its Web site to get and use the information on Tech Shop, and Tech Shop is also using its Web site for customer management. Activities, such as equipment owning, customer management, and helping the customers for convenient use, are the activities of Tech Shop, and the Cost Structure is created from these activities.

Table 10 Business Model of Tech Shop

| Category | Explanation | |
|-------------------|--------------|--|
| | Subcategory | Explanation |
| Value Proposition | - | Usage of tools and equipment at low cost |
| Customer | - | Customer of Tech Shop |
| Activity | Key Activity | All activities of Tech Shop |
| | Channel | Direct usage by |

| | | |
|----------------|------------------------------------|---|
| | | customer |
| Resource | Resources for sharing | Equipment Various tools |
| | Resources for Key Activity | Labor force for resource management, Office, etc. |
| | Resources for Relation Maintenance | Web site |
| Cost Structure | - | Resource management cost |
| Revenue Stream | - | Tech Shop fee |
| Business Actor | Intermediary | - |
| Relationship | Relationship with Intermediary | - |

However, as the case of Tech Shop can be considered as an example of the sharing economy between enterprise and consumer (B2C), the intermediary of Business Actor and the Relationship with the intermediary cannot be explained. However, in the study of Sunku Hong et al. (2013), because the factor of reliability and information is important to introduce the sharing economy between enterprises successfully in Type 1 sharing economy, it is hard to say that the sharing intermediary and the relationship with the intermediary should be excluded.

The case in Type 2, Shipbuilding Material Cooperative Distribution Center is an organization established by the joint investment from dockyard and small shipbuilding material companies to operate the joint purchase of raw materials and to use the joint distribution center, funded by central government and local government after being selected as a Local Strategic Industrial Developing Business by the Ministry of Knowledge Economy in 2005.

Through Shipbuilding Material Joint Distribution Center, Dockyard and Shipbuilding Material Companies pay the storage fee at the level of 50–60% of market price and use the storage service and transportation optimized for shipbuilding and marine materials. The transportation business is operated by “Sebang”, an outsourcing operator. Table 11 below shows the constituent factors of the business model in the sharing economy of Shipbuilding Material Joint Distribution Center.

Table 11 Business Model of Shipbuilding Material Joint Distribution Center

| Category | Explanation | |
|-------------------|------------------------------------|--|
| | Subcategory | Explanation |
| Value Proposition | - | Low storage fee, Cost reduction |
| Customer | - | Dockyard Shipbuilding material companies |
| Activity | Key Activity | All activities of Joint Distribution Center for shipbuilding materials |
| | Channel | Dockyard Shipbuilding material companies |
| Resource | Resources for sharing | Equipment joint distribution warehouse |
| | Resources for Key Activity | Labor force for resource management, Office, etc. |
| | Resources for Relation Maintenance | Distribution information system |
| Cost Structure | - | Resource management cost Maintenance cost |
| Revenue Stream | - | Storage fee |
| Business Actor | Exterior cooperators | Sebang |
| | Investor | Dockyard Shipbuilding material companies |
| | Supporter | Government Local cities |
| Relationship | Exterior cooperators | Contract terms |
| | Investor | Investment conditions |
| | Supporter | Governmental policy and tasks |

It was identified that the constituent factors of business model in Type 2 were thoroughly

explaining the constituent factors of business model of Shipbuilding Material Joint Distribution Center. Consequently, the explanation of these constituent factors can be considered as the business model of Shipbuilding Material Joint Distribution Center.

5. Conclusion and Limitation

In this study, the preceding studies on business model were reviewed and common constituent factors were derived. In addition, a business model that can be applied to the sharing economy between enterprises was designed based on the derived constituent factors and existing literature on the sharing economy between the enterprises,

This study can find its significance in that it contributed academically to the first suggestion of the business model of the sharing economy between enterprises through the common constituent factors of existing business model and the existing literature on the sharing economy between enterprises and that it also contributed to the suggestion of a framework that can be introduced to small businesses.

As the limitations of this study, it did not sufficiently explain the business models classified by type. As for future research, a clearer business model will be suggested and research with more various case studies are expected to be carried out.

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