A Development Model for Sustainable Thai Agricultural Co-operatives

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Abstract

Nowadays Thai agricultural co-operatives face tremendous changes from domestic and international business environments as well as changes in their co-operative member and customer needs. This paper demonstrates how to develop a sustainable agricultural co-operative using a case study of Phak Hai Agricultural Co-operative Ltd. We spent 3 years for collecting, studying and analyzing not only qualitative but also quantitative data. Starting from ordinary functions, this agricultural co-operative provided such services for their members as rice milling, rice drying, seeds, fertilizer, and marketing. Firstly, we applied a model of vertical business development by introducing flooding endurance rice seeds to be planted, using contract farming, and creating a rice brand. Then, we created horizontal business links along their supply chain by means of an alliance with local investors to build a quality controlled mill, trade connection with traditional and modern retail trade as well as opening mobile shops as marketing channels. Finally, we aimed to fulfill their member needs, local people needs and our country needs by establishing a farmer market as a center of trading local agricultural products. As a result, Phak Hai Agricultural Co-operative Ltd. was able to increase their new members by more than 25% at the end of the third year.

Keyword: Business economics, Supply chain development, Agricultural co-operatives

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แบบจัดการพัฒนาสหกรณ์การเกษตรไทยอย่างยั่งยืน

จิราทัศน์ รัตนมณีฉัตร 1
ศักดิ์ชาย รักการ 2
เสนีย์ สุวรรณดี 3
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บทคัดย่อ
ปัจจุบันสหกรณ์การเกษตรไทยต้องเผชิญกับการเปลี่ยนแปลงอย่างมากจากสภาพแวดล้อมทางธุรกิจในประเทศและต่างประเทศ การเปลี่ยนแปลงในความต้องการของสมาชิกสหกรณ์ รวมถึงการเปลี่ยนแปลงในระดับความต้องการของกลุ่มลูกค้าสหกรณ์ งานวิจัยชิ้นนี้แสดงให้เห็นถึงขั้นตอนและวิธีในการพัฒนาสหกรณ์การเกษตรอย่างยั่งยืนโดยใช้กรณีศึกษาสหกรณ์การเกษตรผักไห่ จ.กาญจนบุรี การวิจัยชิ้นนี้เป็นการวิจัยแบบผสมผสานทั้งการวิจัยเชิงคุณภาพและปริมาณ คณะผู้วิจัยใช้ระยะเวลา 3 ปีในการเก็บรวบรวมข้อมูล การศึกษา และการวิเคราะห์ข้อมูลทั้งเชิงคุณภาพและเชิงปริมาณ โดยเริ่มต้นจากบทบาทหน้าที่ของสหกรณ์การเกษตรแบบทั่วๆไป ตามลำดับ ประกอบและให้การบริการต่างๆ ที่เกี่ยวข้องกับการทำการเกษตรสหกรณ์ พยากรณ์การวิจัยชี้วัดว่าสหกรณ์ ตนเองจะมีความสามารถในการพัฒนาสหกรณ์การเกษตรอย่างยั่งยืนโดยใช้กรณีศึกษาสหกรณ์การเกษตรผักไห่ จ.กาญจนบุรี ที่มีการ�ันที่เหมาะสมทั้งในทางที่มีความต้องการของสมาชิกสหกรณ์ใช้การศึกษาชิ้นนี้เป็นฐานในการวิจัยและการพัฒนาสหกรณ์การเกษตรที่มีคุณภาพ

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Introduction

Lately, the Agricultural Co-operatives are growing up around the world. In the United States, Co-operatives are very important to an agriculture sector. Over 3,000 agricultural Co-operatives provided roughly 3.1 million farmers with agricultural marketing, farm supplies, and other farm-related services in 2002. They captured 28 percent market share of the United States market value. In Europe, the majority of the world’s 100 largest agricultural Co-operatives, 62 of them, are located. In Europe and Asia, there is a significant number of large Co-operatives compared to non-Co-operative companies. (Yves Pelle, 2015)

The agricultural co-operative movement brings together their members over one billion people around the world. Some facts about the Movement demonstrate their relevance and contribution to economic and social development. Co-operatives create and maintain employment around the world. In France, 21,000 co-operatives provide over 1 million jobs representing 3.5% of the active working population. Co-operatives are significant economic factors in national economies. In Japan, agricultural co-operatives report outputs of USD 90 billion with 91% of all Japanese farmers holding membership.

In 2007 consumer co-operatives reported a total turnover of USD 34.048 billion with 5.9% of the food market share. In Malaysia, 6.78 million people or 27% of the total population are members of co-operatives. (International Co-operative Agriculture Organization, 2015).

However, there are the problems and prospects of co-operative movement mainly focusing on several pitfalls and shortcomings like: poor infrastructure, lack of quality management, over-dependence on government, dormant membership, non-conduct of elections, lack of strong human resources policy, absence of professionalism. (Banishree Das and Nirod Kumar Palai, 2006).

In the case of Japan, agricultural co-operatives have risen from the ashes. They have demonstrated their economic, social and political strength through sheer hard work, organizational and management capacities and capabilities, a systematic application of farm-related technologies, and consolidating their marketing, supply and credit efforts. These institutions have provided a continued supply of food, which, in a way, gave a strong boost and confidence to Japan’s economic and industrial development. Lately, these co-operative institutions have undertaken a number of innovations and structural reforms to
be able to counter the negative effects of global competitiveness. The Japanese agricultural co-operatives have made the farming profession equally remunerative and honorable as the industrial profession. Merging their experiences of the present days and experiences of the past times, they have a lot of lessons to share to other Movements outside Japan. (Daman Prakash, 2013). There is a significant research comparing the performances of agricultural Co-operatives between Thailand and Japan with varies case studies. (Ratchanee Mukhjang, 2015) Sustainable development is the main desirable for every economy. Regarding their strong roots and ties with local communities, Co-operatives could form a particularly vital mechanism for the development of the marginalized sections of the society.

Co-operatives in Thailand, similar to all developing countries, have been initiated by the government since 1915 with the prime aim of being as a means of improving the living standard of small farmers. This means is mostly aimed to cure a growing debt problem due to farmers changing their business from self-sufficient economy to trade economy. Natural disasters such as droughts and flood have further worsened the debt situation for these farmers. Consequently, they lost their farmland and become laborers, leaving their debts unpaid. The first Co-operative in Thailand was named Wat Chan Co-operative Unlimited Liability was established by the government on February 26, 1916, in Phitsanulok. (Coop Land, 2015). In 1968 with the objective to strengthen the Co-operative movement, the Government enacted the Co-operative Act, which allowed the establishment of the Co-operative League of Thailand, functioning as the apex organization of the Co-operative movement. The Co-operative Act also allows for the amalgamation program combined the neighboring small villages, credit Co-operatives, paddy and marketing Co-operatives, land improvement and land settlement Co-operatives into larger scale Co-operatives at district level performing multipurpose functions and officially categorized as agricultural Co-operatives. Agricultural Co-operatives have been established in Thailand for more than 30 years. The five foremost functions of service are 1) loans; 2) savings and deposits; 3) sale of consumer farm supplies, and agricultural products; 4) joint marketing; and 5) agricultural extension and services. Many agricultural Co-operatives in Thailand had to stop their business operations because they had low operational successes and severe repeated losses from their operations, thereby affecting
the survival of the farmers who are the members of the Co-operatives. A research indicates that there are four main types of risk that have relevant impact on profitability and even threaten solvency of Thai agricultural Co-operatives, namely: credit risk, liquidity risk, operational risk, and market risk. Risk bears significance on the cost of funds, costs for operations, loss provision and "other costs"; consequently influencing the total cost of agricultural Co-operatives. (Korakot Sukkhee, 2010).

This research studies how to develop the business model for a sustainable agricultural co-operative using a case study of Phak Hai Agricultural Co-operative Ltd. This agricultural co-operative provides rice farming services for their members such as rice milling, rice drying, seeds and fertilizer selling plus rice trading from members to market. The data has been collected since 2012 for 3 years. We advise and guide this agricultural co-operative to gradually change from traditional business behaved to profitable and sustainable behaved. With the vertical and horizontal of business development model, we frame a sustainable agricultural co-operative ideal.

Problems and Theory

1. Problems Defining

The problems are associated with the Thai traditional of agricultural Co-operatives. After operating Agricultural co-operative for a while, their farmer members have still been lack of the proper profit, farming knowledge, risk and skill sharing, and being a co-owner of selling products. These facts result the marketing problems of farmers selling their products at low prices. Firstly, they have been exploited by powerful buyers and middle men. Secondly, after the season of harvest, many farmers rush in to sell their crop yields at the same time. Thirdly, the farmers are absence of modern agricultural production such as how to accurately use of fertilizers, insecticides, and pesticides. Inconsequence, the crop yields are low with high production costs and not worth to invest. Fourthly, the types, size as well as quality of crops grown, are not match the market demand. Therefore, agricultural co-operative members, who produce and deliver the bulk of agricultural products to the co-operative would not earn the net earnings derived from their true processing, handling, and marketing of their products.

From the specifics stated above, we are able to emphasize the unique characteristics of Thai traditional
agricultural Co-operatives, which differ from other (investor-oriented) businesses. (GF Ortamann and RP King, 2007).

Co-operatives are owned and democratically controlled by their members (i.e., those that employ the Co-operative’s services or purchase their goods) and not by outside investors. Members elect their board of directors from their ranks. Major policy decisions are based on the one-member, one-vote principle, regardless of how much money each member invest in the Co-operative.

Co-operatives give surplus income (revenue over expenses and investment) to members in proportion to their use or patronage of the Co-operative, and not proportionate to their investment or ownership share.

Co-operatives are motivated not by profit, but by providing services to satisfy members’ requirements for affordable and standard quality goods and services.

Co-operatives exist solely to serve their members.

The co-operatives are formed by their members when the marketplace fails to provide needed goods and services at affordable prices and acceptable quality. Co-operatives empower people to improve their quality of life and enhance their economic opportunities through self-help. This echoes these sentiments by providing the following reasons why Co-operatives were, or are being formed: to strengthen bargaining power; maintain access to competitive markets; capitalize on new market opportunities; obtain needed products and services on a competitive basis; and improve income opportunities.

2. Theory

This section emphasizes on the theoretical framework that can be applied to the Thai agricultural Co-operatives for a sustainable Co-operative model. The rapidly changing economic environment, reflected in increasing globalization and agricultural industrialization, has led many agricultural Co-operatives to undertake substantial structural development in order to survive in a new situation. Royer (1999) for example, mentions that in addition to mergers, consolidations and acquisitions (horizontal and vertical restructuring), co-operatives have become increasingly involved in fundamental institutional changes. Moreover, the related transaction costs can also be associated with asset specificity, i.e., assets that are acquired to support specific transactions. Owners of such relationship specific assets cannot use these assets in other transactions without some loss in productivity or incurring costs in adapting them to other uses. This is very
important for sustainable development of co-operative model. There are four different forms of asset specificity, namely: (1) site specificity (where assets are located nearby to reduce transport or inventory costs); (2) physical asset specificity (assets with physical properties specifically tailored to a particular transaction; e.g., a cheese factory or ethanol plant); (3) dedicated assets (investments based on a promise of a particular customer's business which would make it profitable); and (4) human asset specificity (acquired skills and knowledge of certain workers which are more valuable within a particular relationship than outside it). There is an additional, another form of specificity of importance to agricultural transactions, namely temporal specificity by Sykuta and Chaddad (Sykuta ME and Chaddad FR, 1999). This is due to the time sensitive value of agricultural products and production processes which creates another margin which may entice opportunistic behavior by trading parties.

Development Model

The business model of Thai agricultural co-operatives has many appealing components at its core. The idea of development of agricultural Co-operatives model must be easily accepted, embraced and make it as generally well functional in rural areas.

The model is centered on the user owned, user controlled, and user benefited concept of business. The people still working together for a common cause, especially in small towns, is nothing new. Adapting that shared responsibility concept to a business creation model is a fairly easy transition to take. We have seen farmers and ranchers working together to market their products to various kinds of customers. The evolution of the process of forming a co-operatively-owned business follows some very specific steps that are critical to the eventual success of the project. (Jim Crandall, 2014). Having the right people on the steering committee is critical to effective development. The steering committee should come from a broad representation of the community such as business leaders, civic leaders, and those who might represent a certain prevalent demographic component of the community. If the business is more specific in nature, such as a marketing co-operative for locally grown or made products, then the steering committee should be representative of the potential growers or producers who might be benevolent benefit to the business. These committees tackle the major components that lead to the creation of an overall plan-of-work and
business plan. Moreover, the co-operative enterprise is the development model of organization that is most suited to addressing all dimensions of reducing poverty and exclusion. The way co-operatives help reduce poverty is important - they identify economic opportunities for their members; empower the disadvantaged to defend their interests; provide security to the poor by allowing them to convert individual risks into collective risks; and mediate member access to assets that they utilize to earn a living. (International Co-operative Alliance, 2015).

Case Study

This research studies at Phak Hai Agricultural Co-operative Ltd., which is an agricultural co-operative of co-operatives was established on October 1, 1970 to the current 46 years. The office is located at 217/1 Moo 4 Phak Hai District. Phak Hai District, Ayutthaya, Thailand. The organization aims to help and support their members who are engaged in agriculture with self-help and mutual aids. In 2012, there are 1,975 persons with working capital of approximately 89 million baht and the shared capital of almost 18 million baht. The office is operated by a steering committee of 15 members and management staff of 13. It has been encouraged and supported by the Provincial Co-operative Office and audits by the Office of the Provincial Co-operative Auditing. The most of members are rice farmers in Phak Hai area, where is regrettably flooded annually. Hence, the rice field is damaged and farmers encounter the poverty. The steering committee had searched for a proper development of the co-operative since 2012. The Co-operative has considered to restructuring model of itself by using the vertical and horizontal strategy to the related transaction costs. A vertical strategic alliance is to create a partnership between a Co-operative and its suppliers (National Center of Genetic Engineering and Biotechnology, nearby farmers and rice mill manufacturers). The National Center of Genetic Engineering and Biotechnology has delivered the flood-resistant rice seeds for the Co-operative to provide to farmers. The Co-operative has gently convinced farmers by using a contact farming strategy and also educating skills and knowledge to farmer for enhancing product quality. In addition, the Co-operative dealt with rice mill manufacturer problem by built a 200 tons/day rice mill with its alliances for satisfying capacity and quality control. Vertical alliances deepen the relationship of the Co-operative with
suppliers through the exchange of know-how and commercial intelligence. They extend the firm’s network and benefit customers by lower prices. Suppliers become actively involved in product design and distribution arrangements. For the horizontal strategic alliances are formed between partners operating of end users in the distribution business area such as retailers, Co-operatives, traditional trades, and modern trades. It is a strategy to sell a product in multiple markets. Moreover, the Co-operative has created new local market channel with mobile shops and fresh market located in Phak Hai district to build confidence for its members. The operating results of this 3 year development model have surged farming area and sale revenue for 4 times. Ultimately, benefit return to its members soared twice and number of members increased more than 25%.

Conclusion

The research has investigated the development for a sustainable of Thai agricultural Co-operative using a case study of Phak Hai Agricultural Co-operative Ltd. The problems are deal with the co-operative business model is unresponsive demand and supply. We spend 3 years of collecting data, studying and analyzing problems with the committee of the organization. The horizontal and vertical restructuring and transaction cost economics are involved to develop a self-sustainable model since 2012. Initially, we, as an advisor, applied a model of vertical business development by introducing flooding endurance rice seeds to be planted, using contract farming, and creating a modern rice brand. Then, we created horizontal business links along their supply chain: alliance with local investors to build a quality controlled rice mill, connect with traditional trades, modern trades, and opening mobile shops as marketing channels. Finally, we aim to fulfill their member needs, local people needs and our country needs by establishing a farmer market as a center of trading local agricultural products. As a result, Phak Hai Agricultural Co-operative Ltd. is able to surge their new members more than 25%, rice area and sale revenue increase quadruple, then benefit returns to its members twice.
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