1.0 INTRODUCTION

The evolution of relationships based on collaboration between business partners has become a fundamental subject of research in the area of supply chain management [1] along integration [2, 3]. Study in this field has focused on a range of integration modes including: linking logistics systems and methods with marketing strategy [4]; cross-functional integration in a supply chain context [5]; integration through connecting business partners' information systems to uphold transparency and information flow [6, 7, 8]; the use of internet technologies as an enabler of integration [9, 10]; achieving integration through coordinated products design, processes and the supply chain [11]; and sharing information to facilitate coordination of decisions across business partner networks [12].

This study focuses on integration of systems, processes and strategy which is important for supply chain business partners to recognize the benefits of closely associating supply to demand. These benefits, however, are not essentially realized easily or without constraints. In specific, pursuing supply chain integration involves collaboration that renders the boundaries of the organization ambiguous such that the economics of the association become subject to the good will of the members, and to their ability to control costs associated with coordination. Beside this background, the ability of business partners to share, integrate and influence knowledge becomes a possible mechanism by which such constraints can be recognized, managed and/or mitigated [13].

This concept of the study covers the work of previous scholars in underlining the important role knowledge plays in facilitating effective management of the supply chain [14, 15, 16]. Hence,
the development of clear strategies to support closer integration with business partners becomes a possible source of competitive advantage, and understanding how best to facilitate such integration becomes critical. Exploring the potential for a knowledge-based approach to integration is consequently the objective of this paper.

2.0 THE SUPPLY CHAIN MANAGEMENT (SCM) PERSPECTIVE

Supply chain management (SCM) has recently become popular among practitioners and academicians [17]. Business competition was strengthened in the 1990s and 2000s in global markets and supply chain management practices have been chartered to deliver the right products, to the right place, at the right time, in the right quantity, quality and condition to the growers at the lowest possible cost [18, 19, 20]. It has been suggested by Lau [21] that the recent business environment has been driven by constant changes, market unpredictability [22, 23, 24], rapid technology changes and shorter product life cycle [25]. This has resulted in a range of products and inconsistent global demand [26]. According to Porter [27] and Van Hoek [28], successful organizations remain competitive through various supply chain channel collaborations while adapting to changing market place conditions [29].

According to La Londe and Bernerd [30], the term SCM is usually used to describe the responsibilities of corporate executives, and it has become so popular that practically any publication with articles on manufacturing, distribution, customer management or transportation is bound to be about SCM or a topic that has to do with SCM [31]. As mentioned by Tyndall et al. [32], in operational terms, SCM involves the movement of materials and products. To some people, it is a management philosophy, while to others it is a management process, and some view it as an integrated system. Christopher [33] defines a supply chain as “a network of organizations that are involved, through upstream and downstream linkages, in the different processes and activities that produce value in the form of products and services in the hands of the ultimate customer.” Integrators, manufacturers, distributors, retailers and growers are parts of the supply chain. The growers are the most important part of the chain, since the main reason for the existence of any supply chain is to meet the needs of growers while generating profits for itself in the process [34].

The American Production and Inventory Control Society describe the supply chain as the connecting of processes across supplier-user industries, starting from the raw materials and ending with the consumption of the finished products. The supply chain comprises of all the internal and external functions of an industry which enable the value chain to produce items and supply services to growers. Some researchers have proposed the inclusion of an information system for the monitoring of all the activities in order to obtain a clearer definition of SCM. The Council of SCM Professionals (CSCMP), which is the leading organization for supply chain practitioners, researchers, and academicians, recently came up with a definition for SCM as the planning and management of all activities related to sourcing and procurement, conversion, and logistics management. What is most significant about this definition is that it also covers coordination and collaboration with supply chain partners who might be integrators, intermediaries, third party service providers, and growers. The SCM essentially combines supply and demand management within and across companies. Some scholar defined SCM as the chain connecting each component of the manufacturing and supply process, beginning from the raw materials and ending with the supply to the end user. This management philosophy concentrates on how businesses make use of their supply processes, technology, information, and skills to improve their competitive edge the coordination of the manufacturing, materials, logistics, and distribution and transportation functions within an organization SCM is an integrative philosophy to handle the overall movement of a distribution route from the supplier to the end user as shown in figure 1.

3.0 SUPPLY CHAIN IN MALAYSIAN POULTRY INDUSTRY

In the poultry industry, the main company within the supply chain framework is known as an integrator. This integrator has a vertically integrated supply chain, being the owner of most of the breeding, feeding, slaughtering and processing facilities making use of the latest technology and maintaining stringent hygienic standards in all its processes. It operates together with various distribution networks, from supermarkets to distributors and grocery stores. Its products are also delivered directly to eateries. The integrator is confident that its advantageous position in the domestic and foreign markets is due to the combined efforts of the whole team over a long period of time together with the strategy of the
company in providing services and customised products. Main players normally have a vertically integrated supply chain, operating as integrated producer, owning the majority of all breeding, feed, slaughtering and processing facilities (Figure: 2) as well as operate with a wide variety of distribution channels, ranging from super and hyper markets to distributors restaurants, wet markets and groceries.

Figure 2 The vertically integrated poultry production supply chain

4.0 COLLABORATION IN THE SUPPLY CHAIN PERSPECTIVE

Collaboration in the Supply Chain theories has been developed to explain the best organization inter-firm associations. Transaction cost economics is based in the concept of bounded rationality, or the cognitive limits that constrain managers when choosing who they trust as business partners. This triggers the conjecture that all associations with business partners are subject to the risk of unscrupulous behaviour (i.e., placing self-interest before the association, or being unreliable and untruthful in the service of your own interests), particularly if the interests of parties are also anticipated not to be affiliated [35]. In the supply chain management literature, this pattern has been designated as the model [36]. In fact, this approach to supplier associations is still extensively recognized as acceptable practice [37]. The rationale for this strategy has been to offset the possibility of unscrupulous behaviour of business partners [35], or to neutralize bargaining power of suppliers and/or customers.

This theory has more recently been modified to accommodate the existence of networks and other hybrid collaborative governance forms [35]. Other theoretical perspectives have also emerged to explain why closer ties with trading partners provide strategic benefits that outweigh these risks [38]. Resource dependence theory would frame this relationship between trading partners as being governed by one firm seeking to control the resource(s) [39], or by cultivation of a partnership with the aim of gaining access to the resource(s) [26, 40]. Strategic choice theory suggests that firms collaborate in pursuit of either growth through increasing market power [41], or efficiency through shared risk and economies of scale [42].

5.0 KNOWLEDGE BASED VIEW OF THE ORGANIZATION

The knowledge based view (KBV) of the organization defines knowledge as the resource with the highest strategic value that can be generated, acquired and applied within and between firms [43]. This perspective builds on the Resource Based View (RBV) [44, 45] by proposing that knowledge encourages competitive advantage because knowledge resources have characteristics consistent with either; a) developing capabilities that are rare, valuable, imperfectly imitable and non-substitutable [44], or; b) being of themselves largely intangible resources consistent with possessing these characteristics. The KBV of the firm also supports the building of competencies through improving absorptive capacity. As firms’ employees are involved in accessing knowledge through boundary spanning activities, recent empirical studies have shown the capacity for organizational learning is increased [46]. Further, the KBV has been applied to problems of definition of firm boundaries [47] (Grant and Baden-Fuller, 1995), governance of inter-organizational relationships [43, 48], solution choice based on problem complexity [49], and collaborative supply chain practices [14].

The implications at the firm level are important because the value of a firm is not just a function of its constituent parts [50]. As suggested by Kogut (2000) [50], knowledge that resides outside of a firm cannot be assumed to be “public”, and in fact may be embedded in the rules and norms of the relationships between firms. Knowledge externally held (if not a “public good”) could therefore be expected to have characteristics similar to those of tacit knowledge in individuals (being difficult to codify and often having an important social context). It could also need to be supported by “credible rules” and “sanctioning mechanisms” (explicit codification of rules and conditions of engagement) [50] that provide an
explicit structural governance framework. From a KBV perspective, collaboration between trading partners represents on one level a factor minimizing the cost and time for effective transfer of knowledge between firms, and at a deeper level a potential significant source of value. As such, the value of knowledge as a strategic resource enabling more effective management of the supply chain has been recognized [13, 14].

The KBV perspective provides support for the proposition that collaboration is an effective strategy for accessing knowledge distributed amongst trading partners. Access to diverse sources of knowledge, therefore, promotes growth of the knowledge base (for the firm and/or the network) and builds competitive advantage [50].

The developing theme has been to re-define the supply chain as a “demand chain” to reflect the importance of customer focus and to highlight the importance of end-to-end coordination between supply and demand. This has triggered the investigation of integration between business partners from a more holistic perspective with the importance being on trying to govern the nature, importance and influence of integration across multiple tiers of the chain [3, 51, 52, 53]. The findings of these studies vary, but some unifying themes emerge including: in rapidly growing industries trading partners can achieve efficiency and higher levels of customer satisfaction through a positive feedback loop between collaboration, information flows and the positive impact this has on the relationship [52]; high levels of integration intensity lead to the embedding of capabilities in organizational processes creating conditions conducive to the development of competitive advantage [53]; integration using web-based technologies was most effective for manufacturers when it included linking technologies with both suppliers and customers concurrently [51]; the broader the extent and degree of integration activity across the supply chain (i.e., for a manufacturer the extent to which the integration with trading partners extends both upstream and downstream in the supply chain, the stronger is the link to performance improvement [3].

6.0 CONCLUSION

The KBV of the organization defines knowledge as the resource with the highest deliberate value that can be generated, acquired and applied within and between organizations [43]. The knowledge based view of the organization proposes that the benefits of access to knowledge compensate the potential for opportunism in inter-firm collaborations. The outcome of this study will have some important implications for managers when attempting to resolve the difficult issues associated with organizing inter-firm associations. Hence, it will show evidence that the integration of knowledge through collaborative practices with both growers and integrators provides substantial opportunities for organization to improve business performance. The evidence suggests that the effectiveness of collaboration based on integration of knowledge on the effectiveness of internal processes supports such collaboration. In this context, integration through knowledge sharing and collaboration becomes an important option, particularly where access to multiple sources of knowledge is required. In many business environments, where products rely on multiple sources of supply and distribution, such expertise reside in a different and distributed range of locations. The understanding of the dynamics of inter-firm governance is fundamental to the effective management of the individual organization.

References


