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**Title: Supplier commitment to high specification supply chains**

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### **Aim and Contribution**

The aim of this research is to identify what attracts suppliers to be committed to long-term supply relationships in agri-food supply chains where the suppliers are required to consistently fulfil high product specifications. It also looks at what factors determined suppliers' ongoing commitments and how to build strong enduring relationships.

This research contributes to an understanding of supplier behaviour and motivation, especially in regard to commitment and collaboration, and the factors that influence these. While there has been considerable research on customer relationships there has been little focus on supplier relationships (Athanasopoulou, 2009) and even less in the context of agri-food supply chains.

## **Introduction**

The New Zealand economy is highly dependent on agri-food exports and is unique among the world's developed economies in that nearly two thirds of exports come from the agricultural sector. For example, Denmark and the Netherlands are the nearest comparable developed economies with significant agri-food export sectors, yet their agri-food exports represent only around 20% of these countries' total exports. The most significant of New Zealand's agri-food exports are dairy and red meat products. The dairy sector generated NZ\$ 11.4 billion in export earnings in 2012, representing 25 per cent of total merchandise export value; while the red meat sector generated NZ\$ 5.4 billion in export earnings (Statistics New Zealand, 2012). New Zealand's efficient pasture based production system and small population provide a low cost competitive advantage in the export of high quality meat and dairy products. This dependence, however, makes New Zealand vulnerable to changes in government policies and consumer demand in the importing countries, as well as competition from other low cost agri-food exporters.

New Zealand has traditionally relied on this low cost competitive advantage (Porter, 1998) and focused on improving productivity and efficiency to preserve its position as one of the world's lowest cost agricultural producers. This is now becoming more difficult to maintain with rising production costs and regulatory constraints on increasing agricultural intensification. Because of this, many people are questioning if New Zealand still has a sustainable long-term, low cost competitive advantage. The alternative to maintaining a low cost position is focusing, instead, on increasing the value of the product (Porter, 1985b). This would require a fundamental shift in the

focus of New Zealand agriculture. Instead of an emphasis on efficient farm production and increasing scale, the focus needs to be on meeting the needs of selected high value consumers. These consumers are demanding greater variety and quality in the food they eat. They require a consistent year-round supply of high quality, safe food (Fischer et al., 2009; Van der Vorst, 2000). They also want food that aligns with their own personal values, which includes credence attributes such as environmental sustainability, animal welfare and fair trade, as well as local and organic production.

Meeting these consumer demands is difficult within the constraints of New Zealand's pasture based agricultural production system, where production volume and product specifications are highly dependent on climate. This leads to a fundamental question. Should New Zealand agriculture continue to focus on low cost, efficient production systems or on developing higher value products, with innovative production systems that can deliver a consistent year-round supply of high quality, safe food and also address consumers' concerns for animal welfare and environmental stewardship?

This change would be a significant challenge for the relationships in the supply chain. The New Zealand agricultural sector has traditionally relied on short-term spot market exchange relationships (McLeod, Mair, Parker, & Belworthy, 2011). While these are efficient for large volumes of undifferentiated products they are less effective in meeting consumer needs for differentiated products (Sonka, 2003). In a spot market transaction there is little information flow. Information flow is important with differentiated products where credence quality attributes, such as animal welfare are not visible in the physical product at purchase or, even, after consumption (Dyer &

Singh, 1998; Nelson, 1970). Therefore, to meet these consumer needs the New Zealand agricultural industry needs to move away from relying predominantly on a traditional commodity model with short-term, competitive, spot market relationships to a partnership model with increased supply chain commitment involving long-term contracts and to delivering of high quality products to meet customer demands (Fischer et al., 2009).

This requires suppliers who are willing to commit to meeting higher product specifications while working with less flexible delivery schedules. It means moving from a competitive model to a partnership model (Dwyer, Schurr, & Oh, 1987; Jae-Nam & Young-Gul, 1999). These partnerships are relationships based on mutual trust, openness, and where the responsibility, authority and decision-making are shared more evenly and there is often an agreement between the parties to share both risks and benefits. (Lambert, Emmelhainz, & Gardner, 1996; UK Audit Commission, 2012). In one of a number of reports on the red meat sector it was identified that the sector was dominated by commodity supply chains as opposed to differentiated value chains (McLeod et al., 2011). These authors indicated that to address the industry's problems there needed to be greater trust between processors and suppliers and incentives needed to be aligned so that one sector did not profit at the expense of the other.

There is, currently, little research on what influences farmers to commit to long-term supply chain partnerships. There is significant descriptive research on the

characteristics of supply chain partnerships but little explanatory research. This research will address this.

### **New Zealand's Agri-food Exports**

New Zealand exports a high proportion of its agri-food products and, despite significant diversification, still relies on a small number of key markets.

**Table 1-1: Proportion of NZ Products Exported**

Product	Per cent exported	Main market	Per cent to main Market 2012
Dairy products	97 per cent	China	23 per cent
Sheep meat	90 per cent	European Union	56 per cent
Beef	80 per cent	USA	40 per cent
Venison	90 per cent	European Union	76 per cent

(Statistics New Zealand, 2012)

China has recently become New Zealand's largest market for dairy products. Over the last 20 years China has moved from being the 31<sup>st</sup> largest export destination for New Zealand dairy products to the first. This market continues to grow strongly due to rising incomes and urbanisation in China. In contrast, the majority of lamb and venison is exported to the European Union. Lamb benefits from being counter-seasonal to the European Union domestic supply and 40 per cent is exported as chilled cuts. New Zealand has preferential market access for lamb to Europe, with a tariff-free quota of 228,254 tonnes. Venison is supplied into the European Union market primarily in the Northern Hemisphere autumn during the traditional game season, with Germany, the largest single market, taking 40 per cent of total venison exports (Statistics New Zealand, 2012). The United States is the main market for New

Zealand beef taking forty per cent of exports with much of it destined for further processing into ground beef.

While dairy production is primarily pasture based there is increasing use of supplementary feeding and irrigation to reduce the impact of climate and to increase production. In contrast, New Zealand meat production is produced on un-irrigated pastures with little use of supplements. This enables low cost, year-round outdoor grazing that produces natural, high quality meat products. It also means that production is highly seasonal with significant variation due to the climate (Bensemann, Shadbolt, & Conforte, 2011; McLeod et al., 2011). Changes in pasture supply, driven by variations in temperature and rainfall play an important role in supply chain dynamics, affecting price, quality and timing of supply (Bensemann et al., 2011). This is compounded by seasonal and structural overcapacity in the meat processing industry, creating a highly competitive environment for procurement of supply.

### **Literature Review and Research Framework**

The primary objective of strategy is to create a competitive advantage (J. B. Barney & Hesterly, 2010). Competitive advantage is the ability to produce greater economic value than competing firms (J. B. Barney & Hesterly, 2008, 2010; Lin, Ensle, & Vaughn, 1981; Porter, 1985a; Sonka, 2003). Porter (1998) identifies three generic strategies firms can use to achieve competitive advantage. The first, a cost leadership strategy, emphasises efficiency and the production of high volumes of standardised products. This provides customers with similar products as competitors but at a lower cost. The second, a differentiation strategy, attempts to create products that consumers will pay more for because of attributes they value. The third strategy identifies the



breadth of the targeted market segment, where firms attempt to better meet the specific customer needs for a particular market segment. This can involve either a low cost or a differentiated strategy depending of the mature of the market segment.

These generic strategies can also be applied at a supply chain level. Agri-food supply chains have traditionally used a low cost strategy with the provision of large volumes of undifferentiated products and spot market relationships (Sonka, 2003). However, many agri-food supply chains are now moving to establish closer relationships with suppliers and customers so they can deliver differentiated products (Hobbs & Young, 2001). As consumers demand greater quality and diversity in products and services, buyers need greater commitment from suppliers to ensure a consistent supply of the required quality (Fynes, Voss, & de Búrca, 2005; Kee-Hung, Cheng, & Yeung, 2005).

High levels of commitment mean that suppliers are willing to adapt to meet the required product specifications and committed suppliers will make relationship-specific investments and exert effort to satisfy the buyer (Buxton & Tait, 2012).

Committed suppliers will allocate the required resources (time, effort and money) to improve their supply chain performance. However, this commitment can also mean suppliers are vulnerable to opportunistic behaviour, especially where they have made relationship-specific investments. Transaction cost economics identifies the risk of opportunistic behaviour as a determinant of transaction costs. Firms encounter transaction costs as they adopt governance mechanisms to address the risk of opportunistic behaviour (Williamson, 1979). Trust is a more effective and lower cost

governance mechanism than having formal contracts (Dyer & Singh, 1998; Poppo & Zenger, 2002).

This is especially the case when there are complex exchanges requiring co-operation between partners (Poppo & Zenger, 2002). Long-term, sustainable partnerships require a high level of collaboration between all parties in the supply chain and are characterised by high levels of trust, commitment, transparency and integrity (Kwon & Suh, 2004). These are also important factors in enabling the efficient and effective flow of information and the allocation of resources in a supply chain (Buxton & Tait, 2012). These behaviours are necessary to enable companies to supply differentiated products to customers and achieve a sustainable competitive advantage.

### **The Resource Based View**

The resource based view (RBV) states that competitive advantage comes from valuable and rare resources, and capabilities. If these are also hard to imitate and not substitutable then they can provide a long-term sustainable competitive advantage (J. Barney, 1991; Poppo & Zenger, 1997). RBV identifies that it is the different resources these firms have that determines the differences in performance between them (Wernerfelt, 1984). Examples of the resources are brand names, technical knowledge, skilled human resources, inter-firm relationships, machinery, efficient operating procedures and financial capital. The RBV regards specific assets and, in particular, human assets as being critical to a firm's performance. These provide valuable knowledge and capabilities (Poppo & Zenger, 1997). The RBV proposes that companies choose greater integration and more hierarchical governance

mechanisms, because with greater investment in specific assets these forms of governance are more efficient (Poppo & Zenger, 1997). Originally, the RBV focused only on the resource capabilities located within the individual firm (J. Barney, 1991; Molina & Dyer, 1999). However, later developments acknowledged evidence that firms can achieve supply chain productivity gains by making relational investments. Inter-firm relationships enable the combining of resources in unique ways that provide these partnerships with greater competitive advantage. This incorporates the relational exchange perspective into the RBV (Dwyer et al., 1987). This extends the original view of the RBV framework to incorporate intangible resources that exist beyond the boundaries of individual firms (Molina & Dyer, 1999).

Firms engage in relationships with other firms to obtain access to complementary resources (Bart Nooteboom, De Jong, Vossen, Helper, & Sako, 2000). A partner can offer a range of valuable resources, including technical capability, organisational capability, flexibility, reliability, knowledge, innovative capability, network position, international presence and a low risk of discontinuity (B. Nooteboom, 1999). Oliver (1997) suggests that strategic alliances allow firms to obtain assets, competencies or capabilities that cannot be easily purchased in a competitive market for resources. These are, in particular, intangible assets such as specialised technical knowledge, expertise or reputation. Collaboration creates a unique combination of resources that, when combined, have greater value than when on their own. These combinations mean that these resources are more valuable, rare and difficult to imitate (Molina & Dyer, 1999).

Therefore, long-term supply chain partnerships create a competitive advantage through a number of activities. Partnerships' investment in tangible and intangible relationship-specific assets not only includes specialised machinery but also includes relational assets such as trust. A significant exchange of knowledge and joint learning takes place that is specific to the relationship. Firms are able to combine scarce resources in complementary ways that enable them to improve quality and efficiency as well as to develop new products and technologies. Through relational governance mechanisms, they are able to lower transaction costs (Dyer & Singh, 1998; Molina & Dyer, 1999). These create relational rents, which are profits achieved through collaboration that are not able to be produced by each individual firm in isolation.

### **Social Capital Perspective**

Social capital theory has become an important perspective within social exchange and social network theory. In incorporating a relational view of social exchange theory, social capital describes the relationship-specific resources that enable the relational rents and is concerned with the nature, structure and resources embedded in a person's network of relationships (Burt, 1992; M. S. Granovetter, 1973; Lin et al., 1981; Seibert, 2001). Social capital was initially described by Jacobs (1965), who referred to the networks of community relationships developed over time that provided a basis for trust, co-operation and collective action. Social capital includes the actual and potential resources as a result of relationship networks (Nahapiet & Ghoshal, 1998a). Social capital between buyers and suppliers allows them to gain access to, and leverage from, resources residing in their relationships. It reduces the

likelihood of conflicts and promotes co-operative behaviour through trust, common goals and social bonds (Villena, Revilla, & Choi, 2011).

Social capital is categorised as either cognitive, relational or structural (Nahapiet & Ghoshal, 1998b). Cognitive social capital involves shared visions, goals and culture or, in other words, what you have in common. Structural social capital refers to the overall pattern of connections between actors, in other words, who you have contact with and how you have contact with them (Nahapiet & Ghoshal, 1998a). Relational social capital refers to personal relationships of trust, friendship, respect and reciprocity developed through a history of interactions that influences behaviour (M. Granovetter, 1992; Nahapiet & Ghoshal, 1998a) .

Social capital theory is closely aligned with the network view. It assumes that inter-firm relationships are embedded in a network structure (structural social capital), and this affects the behaviour and expectations of firms (Omta, Trienekens, & Beers, 2001). Relational and cognitive social capital describes the characteristics of these network relationships. Many traditional studies of supply chain relationships take a limited linear view and only analyse the dyadic relationships between firms in the supply chain. This approach ignores the complex interdependencies and relationships between firms that exist in a larger supply network (Choi & Wu, 2009; Wilson, 2011)

### **Theoretical Framework**

Based on the literature review, it is proposed that suppliers seek to maximise the long-term value of their resources and capabilities. This means they seek to develop and acquire valuable and rare resources and capabilities that are difficult to copy, and

this leads to a sustainable competitive advantage. This is based on the resource based view and incorporates social capital theory. It is proposed that this involves not only the individual firms' resources, but also the resources that are jointly owned and reside in the network of connections between the partners. Suppliers who are committed to long-term relationships seek to maximise the value of their productive resources by seeking complementary resources in their supply chain partners that can add value to their existing resources as well as create new resources and capabilities.

### **Objectives of this research**

The main objective of this research is to contribute to the knowledge and understanding of supply chain relationships in the agri-food sector. This will provide a better understanding of how to create long-term committed partnerships between suppliers and buyers in order to meet the higher product specifications and delivery schedules required by international consumers

### **Research Aims**

This research aims to identify the characteristics of long-term successful supplier/processor/retailer partnerships in agri-food supply chains as well as the characteristics of the participants. It will identify how these long-term partnerships create value through co-operation. The research will investigate the factors that enable long-term co-operation to occur, as opposed to short-term, opportunistic behaviour and how this co-operative behaviour can be maintained.

### **Research Method**

The study employs a qualitative case study approach to explore the factors that attract suppliers to be committed to long-term supply relationships in agri-food

supply chains where suppliers are required to consistently deliver to high product specifications.

An exploratory case study method was used in order to gain insight into the complex factors that contribute to the formation of long-term supply commitments in agri-food supply chains. Case study research can involve single or multiple cases (Yin, 2003). Multiple case studies provide advantages in identifying patterns and enable the triangulation of the results.

Semi-structured interviews were undertaken with suppliers from three New Zealand agri-food exporting companies between May 2012 and October 2013. The companies selected all had a focused-differentiation strategy ([Porter, 1985b](#)) and the products exported included dairy, beef, lamb and venison, and their key markets were in the European Union, North America, Asia and the Middle East. The suppliers were required to meet high product specifications in terms of timing of delivery, food safety, traceability, environmental sustainability, animal welfare and product quality. The suppliers were asked what they valued in their relationships with these companies and the benefits they received. The interviews focused on factors such as price and price certainty, relationship quality, benchmarking and information sharing. They were also asked about the costs and risks from supplying these companies. The producers were asked what they valued in their supply relationships and the benefits they had received. They were also questioned about the disadvantages of belonging to their supply relationships.

## **Validity**

The study was exploratory in nature and attempts were made to ensure validity.

External validity was achieved through proximity and similarity (in the selection of companies that had similar strategies but different products and markets (Campbell, 1986). Internal validity was assured through the number of supplier informants selected within each group while suppliers were selected to provide a broad range of perspectives.

## **Case selection**

The case studies were selected to provide perspectives about different companies exporting different products to a range of different markets (Eisenhardt, 1989). The criteria for a company's selection was that the company had suppliers who committed to supply on contract with specific product specifications in terms of timing of delivery, food safety, traceability, environmental sustainability, animal welfare and product quality. The companies had to be exporting to high end wholesale or retail customers in the European Union, North America, Asia and the Middle East. The companies were selected to cover dairy, beef, lamb and venison export supply chains such that the main dairy and meat exports were covered.

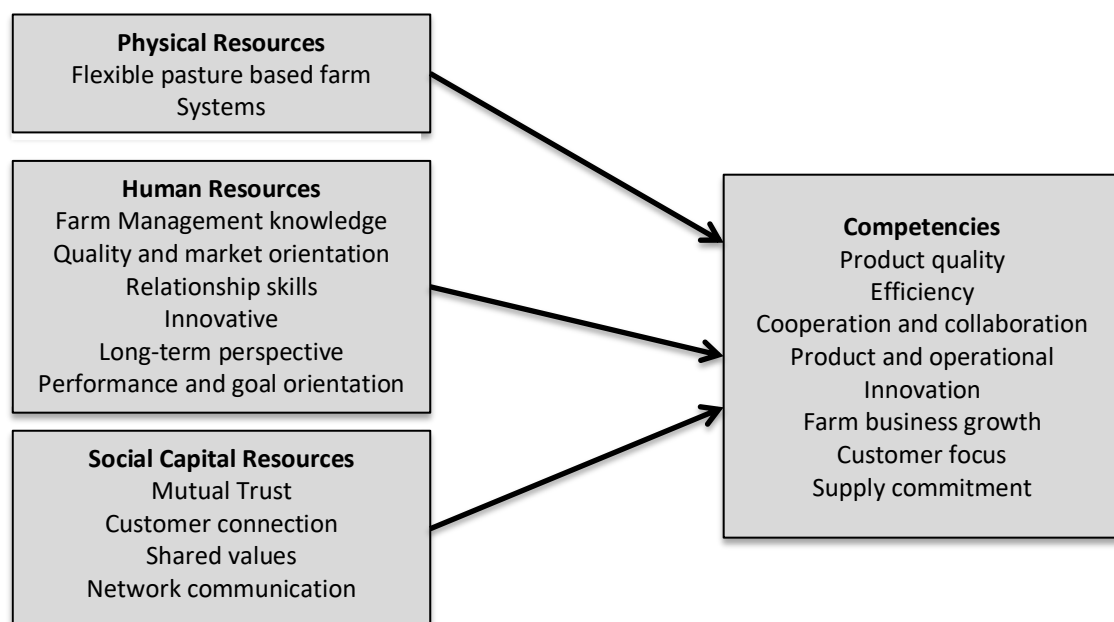
## **Data Collection**

Face-to-face semi-structured on-site interviews were the primary method of data collection. These were complemented with secondary data such as published company information, supply agreements and newspaper reports. Other secondary data included observations at supplier field days and informal personal communication with suppliers and company personnel. Secondary data provided additional information and validation of the interview data.



The suppliers from the three companies interviewed had a number of common characteristics that reflected their physical, human and social capital resources and capabilities (figure 1). The combination of these resources enables these suppliers to develop distinctive competencies. These are unique strengths that enable these suppliers to efficiently deliver reliable supplies of high quality products that meet customer requirements (Hill & Jones, 2008). These suppliers choose to commit to these high specification supply chains because it gives them access to complimentary resources, which enables them to maximise the returns on their distinctive competencies. These complimentary resources are the customer relationships, reputation, marketing skills, communication and supplier relationship skills of the companies they supplied.

**Figure 1: Model of supplier resources and competencies**



## Supplier Physical Resources

The suppliers had farm systems that they could adapt to produce consistently high quality products with more demanding delivery schedules. This involved land and climate resources that enabled a level of production flexibility, or they could achieve this through use of forage crops, irrigation or other stock to balance pasture supply and demand.

This was evident when interviewing less committed suppliers as the most common issue they mentioned was the reduced flexibility in delivery timing and quality these supply chains required. This was most significant for suppliers that had farms where summer rainfall was unreliable and soils had little water storage without irrigation.

*"We like to be quite flexible and move quite quickly but these things didn't allow us to move as quickly as we would have liked. Beef supplier*

*"We are a sheep and beef breeding business and our key performance indicator is our ewe production. Trading stock have become a big part of our system so that at any time when its dry, late winter or summer, we can just cut the trading stock." Beef supplier*

*"Commitment has a cost to it and the reason being that I can't just go and market all my cows as in-calf. Getting involved in this supply chain means we make a commitment that we won't change that policy for the long term and that has a cost. I could sometimes make more money by going to trading." Beef supplier*

## Human resources

The human resources and capabilities were a significant factor in the characteristics of these suppliers. They were all capable producers with a high level of farm management ability. Combined with this was a high level of motivation and ability to innovate. They described themselves as progressive farmers, and had a strong desire to develop and grow their farm business. This did not always mean physical expansion but was often about positioning their business to adapt to future changes. As a result they were hungry for information and knowledge that would enable them to improve their farm performance.

*"I'd like to see my figures against other suppliers. It's not necessarily to prove I'm the best but just for my satisfaction of seeing where we are and can we improve, and if not, if I'm not up there, then what can I do"* Venison supplier

*"I think that's what we all need to do. All farmers need to stop being average; It is probably going to be a contradiction of terms. Some farmers farm because that's what they do and some farmers farm because they have to make money".* Venison supplier

The desire to create and acquire new knowledge resources was a key characteristic of these suppliers. They valued collaboration and interaction with other like-minded farmers. Collaboration, which enabled the exchange of information and ideas with other capable and innovative farmers, helped them jointly create new knowledge and learning and to develop their existing resources and capabilities.

Receiving a premium price for their products was also important. They felt they were “better than average” suppliers and had the capability and resources to produce a high-quality product to tighter specifications and, therefore, wanted to receive a reward for this.

*“The premium is good but other things are as well. It gives you a pat on the back and know you are doing a good job basically”* Beef supplier

*“It’s important to me to get a premium price and knowing you are doing the right thing to get it”* Beef and lamb supplier

*“The key services for us are providing a good sort of marketing to try and promote high quality beef and sending it to an end market that can pay top dollar for the top product”* Beef supplier

*“We want to produce a top quality product and a high value with it. We want to know whoever we are moving that product onto is working on the same strategy rather than developing a product and not getting the value out of the market place,”* Beef supplier

*“The premium price is important because we have lots of options here for farming different classes of stock and we pretty much work things back to cents per kg dry matter.”* Beef supplier

They also had a long-term perspective and wanted to ensure their business was able to adapt to future challenges and changes in the industry. They were goal orientated

and motivated by setting both short and long-term goals. The suppliers achieved a great deal of satisfaction from achieving goals and improving performance.

*"This year I set a goal at the start of the season and then try to do things as well as I should to achieve that goal. It might seem like a small thing but it's satisfying"* Beef supplier

*"I definitely take a longer term view maybe the margin should be higher that you're getting but I accept that well that may not be happening now, but it should happen in the future".* Beef supplier

*"I like the results they give us, the spreadsheet, the benchmarking. I do like that it gives us something to aim for".* Lamb supplier

The suppliers had strong relationship skills, which enabled them to work cooperatively with other suppliers, and the companies they supplied. They were committed to working co-operatively with other suppliers and other parts of the supply chain. They had learned the benefits of collaboration and working together to create value.

*"The thing is you're not competing against anyone; you're not competing on the open market so if you improve your performance it doesn't matter".* Venison supplier

*"So because you're in this group there's obviously an incentive to actually improve the performance of the whole group".* Venison Supplier

*"There's a strong need for this, a sense of reciprocity, where there's give and take and so I accept that I'm not getting the maximum this year but that's going to pay off in the future. So that's why a key person that's in the group has to be looking long term".*

Venison supplier

*"The whole point of this group is that it's about the good of the group as a whole"*

Venison supplier

They also had a strong focus on producing high quality products and got a great deal of satisfaction out of this. Many expressed that they were committed to producing high quality products and would do this regardless of the premium received.

*"Focusing on quality rather than quantity; if we were focusing on quantity we would be running bulls and trade lambs all over the show. I could make more money by selling all my lambs to sale yards right now rather than having a committed contract, but we don't believe that that is the future of the industry."* Beef supplier

They were also customer and market focused. Knowing who the customer was gave them a sense of satisfaction and also gave them assurance that they were adapting their farm system to customer demand; this reduced their perceived risk. Customer connection provided them with personal satisfaction of knowing their efforts to produce a high quality product was appreciated and valued.

*"If I left this relationship the customer connection would be one of the main things I would be losing or missing out on."*

*"The attraction of this supply chain model is you have got a connection with the customer so you can actually see where the money is going and you know the money is all being recycled in the group." Beef supplier*

*"We like the fact that they are not a normal old beef animal, they are going to a specific market and you are putting the trust in the people who are selling it for you. It is nice to be a little bit more connected to the market of a prime product, which gives us a sense of satisfaction in the quality of what we sell." Beef supplier*

*"That connection to the customer is really important and that gives you a sense of satisfaction of what you're producing. You know where it's going; it's the whole traceability thing. You know it's going to the top end of the market." Beef supplier*

## Social Capital Resources

It was clear that these supply chains had significant relationship specific resources. These connections were with the companies they supply, downstream customers as well as other suppliers. These social capital resources enabled suppliers to reduce costs, increase value and reduce risk, which leads to an increase in competitive advantage.

A key aspect of the cognitive social capital in the supply chain was shared goals and values. Many suppliers were attracted to these supply chains because they had a common vision with the other supply chain members. This involved producing a high quality product and delivering to customer demands. They wanted to move away

from producing commodities and focus on creating more value by meeting customer expectations and being rewarded for doing that.

*"I was attracted to this from a marketing point of view; this is the only way we are going to get out of the commodity cycle,"* Beef supplier

*"We want to produce a top quality product and a high value with it. We want to know that whoever we are moving that product onto is working on the same strategy rather than developing a product and not getting the value out of the market place,"* Beef supplier

*"Because they're a marketing company that actually aligns with my philosophy over the fact that we should be marketers, not salesmen"* Venison supplier

The other members of the supply chain brought complimentary marketing resources that enabled the suppliers to realise a better return from the resources they invested in their farm production.

Relational social capital was evident in the strong mutual trust that existed in the supplier-buyer relationships as well as in the horizontal relationships with other suppliers. This was supported by structural social capital with regular interaction and honest communication.

*"Totally, totally, I mean, I totally trust all the guys, what they're doing."*

Venison supplier



Mutual trust and honest communication was also critical as it reduced the risk associated with opportunistic behaviour and enabled them to adapt more quickly to changing market conditions and consumer demands.

*“Well one of the things that would damage the relationship would be if they were trying to keep things secret or not telling us. You have to have a fairly good level of trust that they are not hiding any information from you or that they are openly sharing the information that they have.” Lamb supplier*

This social capital was extended through the supply chain to the wholesale and retail customers who often visited suppliers. In some case suppliers had visited the markets and interacted with customers and consumers with in store tastings

*“We were attracted to the scheme because it was not only the price but we knew our meat was going to a specific market – not just disappearing. The Japanese were coming over to and having a look round some farms, which I thought, was good. They took an interest in where the meat came from and made an effort”. Lamb supplier*

Customer connection was important as this provided valuable knowledge exchange and learning. With a greater familiarity about customer needs the suppliers felt they could make strategic investments in their farm production that would create more customer value.

The enduring relationships and mutual trust in the supply chain meant that long-term pricing arrangement could be established. The suppliers valued long-term stable prices as this reduced their income volatility. This also enabled improved planning and the ability to invest and focus on maximising production rather than reacting to changing commodity prices. Stable prices gave them better access to financial resources, as banks were more willing to lend if product prices were more predictable.

*"You know what the end result is so you can work on margins"* Lamb supplier

*"Having a fixed price is important. You can plan, budget and work towards a good solid outlooks that's consistent. I am not saying they have to have the best price all the time but it's always a big one. As a farmer I can spend the rest of the year planning my crop, changing my rotation to target that"* Beef supplier

*"What attracted me was the opportunity for a fixed price and focusing on a high value product."* Beef Breeder

*"When I figure out how quickly I can grow them I can go to the bank manager and say that amount of money will come in at that time of year. There is no fluctuation and that for our business going forward is going to be hugely valuable."* Beef Supplier

*"It allows you to focus on improving your farming performance rather than worrying about what the market price is doing".* Venison supplier

Relationship quality was important to the suppliers as they sought to establish relationships of mutual trust and reciprocal commitment with their supply chain partners. These aspects of social capital enabled them to mitigate the risk of adapting their production to specific customer requirements and to reduce transaction costs.

*"I look after them and they get everything. In return he looks after me and it's a mutual relationship"* Lamb supplier

## **Conclusions**

The suppliers in this research confirmed the social capital and resource-based theoretical framework whereby suppliers commit to long-term differentiated supply chains as a strategy to maximise the value of their existing resources and capabilities. They also sought to create opportunities to further develop existing resources through acquiring new resources and capabilities, or to access to complementary assets. This confirmed the resource-based view that firms seek to create a sustainable competitive advantage by controlling valuable and rare resources and capabilities that are difficult to copy. The research also confirmed the social capital perspective as these suppliers saw value in the relational resources that included common goals, mutual trust, communication and social interaction.

The suppliers sought out differentiated supply chains as they identified these as creating greater value for their existing resources. They already have high farm management capabilities as well as quality farm resources so have a greater ability to produce to higher specification products with less flexible delivery requirements.

They also have existing social resources in terms of abilities to co-operate and work with others. They have a high level of absorptive capacity, and therefore, can more easily acquire and incorporate new knowledge into their farm systems.

The companies they supply provided them with access to complementary resources in the form of access to premium markets where they can achieve greater returns on their resources and capabilities. The social capital resources that existed in the supply chain relationships enabled them to reduce the transaction costs due to their investment in relationship-specific assets.

The case studies showed that it is possible for New Zealand to develop higher value differentiated supply chains with committed long-term relationships. This however, requires a specific set of resources and capabilities that are by definition, rare and difficult to copy. This will only ever be a strategy for a part of the New Zealand agri-food industry. New Zealand needs to develop a diversity of strategies for suppliers and exporters. Individual producers and exporters will supply different types of supply chains with a continuum between spot markets and vertical integration. This will be based on their perception of the way they can maximise the value of their existing resources and capabilities. For example, suppliers with less ability to produce consistent quality or supply volumes due to their human or physical resources may maximise their returns by having flexibility in their market arrangements and quality specifications.

### **Managerial implications**

The success of differentiated agri-food supply chains requires capable and committed suppliers. This requires significant investment in developing relationships and careful selection of suppliers. Companies developing a differentiated strategy need to identify suppliers who have the ability to produce high quality products and want to be involved in a customer-focused supply chain that provides them with access to premium markets. Companies can build commitment and trust with suppliers through open and transparent communication. They also need to invest in marketing and customer relationships to provide suppliers with access to premium markets so they can be rewarded for the quality of the products they produce.

Although these committed, differentiated supply arrangements will not suit all suppliers, improving the overall resources and capabilities of producers will mean a greater proportion will choose these supply chains as their optimum strategy. This has important implications for policy makers, researchers and for extension services.

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