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CHAIN QUALITY MANAGEMENT IN CO-OPERATIVES

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Zusammenfassung

This paper investigates the relationship between the chosen quality strategy and the vertical co-ordination mechanism of a focal company by using new institutional economics, as well as strategic management approaches. The theoretical findings are tested using evidence from 19 of the largest Polish dairy cooperatives, surveyed in spring 2006. The results show that all co-ops recognise the changing market requirements and are treating food quality as more than plain food safety and the ability to continuously reproduce an *ex ante* defined set of attributes. However, compared to investor-owned dairies, co-ops are disadvantaged in quality-based competition due to their lower flexibility and access to financial and qualified human resources. To overcome this intense competition, co-ops modify their production profile, which leads to market segmentation. Moreover, the choice of quality strategy is an economic activity, guided by the co-op's profit expectations within the selected market. The chosen quality strategy determines the design of the vertical co-ordination mechanism. Thus, the higher the requirements for the final product, the further quality management systems go beyond a firm's boundaries, and the higher is the intensity of the relationships between the intermediary stages in the dairy chain.

Keywords

Network theory, relationship management, quality management, cooperatives, Poland

1 Introduction

Because of the plenty food scandals of the last few years, food quality is considered to be of major importance to all business operators in the food chains. However, for co-operatives quality management is one of the most challenging issues, since the co-ops must meet the interests of their agricultural members while satisfying sophisticated business customers. In our paper we argue that quality management is not bound to a single firm and consider an inter-firm perspective. Thus, we draw upon the definition of HANF and HANF (2005), who claimed that the most striking consequence of the dramatic food scares was the fact that politicians, consumers, producers and suppliers all assess food quality as no longer the matter of a single firm. However, not only chain quality management in a general sense has to be discussed. Motivated by the above-mentioned work we introduce a differentiation between an operative and a strategic chain quality management in our paper. Furthermore, we extend the theoretical framework by discussing the quality management approach from the cooperative's point of view.

The aim of this paper is to identify chain quality management by Polish dairy co-operatives. More specific we intend to identify which influence the chosen quality strategy exerts on the vertical co-ordination mechanism. In the first part of the paper, we present a brief review of the relevant theories. Following the theoretical discussion, the second portion of the paper details the relevance of quality management thoughts for the Polish dairy co-ops.

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2 Theoretical considerations

There were several severe food crises in the years prior to the BSE- and FMD- crises in the winter of 2000/01, e.g. the Coke-scandal in Belgium, the BSE-crisis in the UK, and the wine-scandal in Austria and Germany. However, the crisis in the winter of 2000/01 can be regarded as the straw that broke the camel's back (HANF and HANF, 2005). The growing concerns of consumers, producers and governments worldwide have influenced the political debate on food safety. In the European Union (EU), a variety of new standards have been set in order to ensure the demanded minimum level of food quality. The result of these developments is that food policy is becoming increasingly integrated across various sectors (UGLAND and VEGGELAND, 2006).

With increasing knowledge and perception of risk, consumer demand for safety and a willingness to pay for it increases (ANTLE, 2001). At the same time, as incomes rise, consumers demand even more quality, including, besides safety, such attributes as nutritional value, product diversity and tightness of product specification. Providing credence attributes is becoming an integral and ubiquitous issue for business operators. Indeed, trust-based attributes are expanding and include, besides food safety and nutritional properties, different contextual product properties related to certain public goods or values, such as environmental justice or cultural (traditional) values, etc. (ALLAIRE, 2004). Consumer are, however, not able or willing to intensively and fully ascertain the credence characteristics of food products. Thus, they look for signals to facilitate their buying decisions, e.g. a well-known brand or a certificate of quality, thereby motivating the participants of the food chain to take the appropriate measures and to meet the 'new quality' demand (HANF and PIENIADZ, 2006).

Through the expansion and deepening integration of the EU, the quality-based competition among business operators has intensified. On the one hand, the minimum quality standards of the EU force low-quality producers to raise their quality or drop out of the market (HOCKMANN and PIENIADZ, 2006). On the other hand, the increasing demand for quality signals especially allows supermarkets and manufacturers of branded products to benefit from imposing voluntary, private quality and safety standards, some of which are even more stringent than similar governmental regulations. Hence, the use of private voluntary standards across food categories has been increasing in both long-standing EU members, as well as in transition countries (SPENCER and REARDON, 2005). FULPONI (2006) argues that private standards will become even more prominent in upcoming years as we observe increased market concentration and buying power in the retail sector, as well as its integration with financial markets. UNNEVEHR et al. (1999) assert that since food safety and quality can be successfully managed using private standards, their diffusion will henceforth even reduce the need for direct legal regulations. Thus, in order to meet the demanded new quality, food processors and retailers will have to enact additional mechanisms and re-design their food chains to induce the incentive-compatible behaviour of upstream business operators. HANF and HANF (2005) concluded that these demands on quality lead to the conceptualisation of chain quality management concepts by combining these 'new quality' demands with general chain management concepts.

2.1 Chain quality management

The modern Agri-Food literature indicates that in the sector food supply chains systems are being formed (Boehlje, 1999; Downey, 1998; Hanf and Drescher, 1994; Hendrikse and Bijman, 2002; Van Dijk, 1997). Such vertical process organizations are most often designed as hybrid organizations i.e. as supply chain networks (Lazzarini et al., 2001; Neves, 2003; Omta et al., 2001; Zylbersztajn, 2004). In general such networks can be characterised as pyramidal-hierarchical strategic networks (Hanf and Kühl, 2005a) possessing thereof a focal company (Jarillo, 1988; Wildemann, 1997). In the context of supply chain networks and

their management HANF and HANF (2005) highlight the distinction between strategic and operational partnering: Strategic partnering is defined as an "on-going, long-term, inter-firm relationship for achieving strategic goals, which deliver value to customers and profitability to partners" (MENTZER et al., 2000:550). The aim of strategic partnering is to improve or entirely alter a company's competitive position through developing new products and technologies and by creating new markets (WEBSTER 1992). Additionally, strategic partnering should also include exclusivity and non-imitability (MENTZER et al., 2000). Operational partnering is defined as a "needed, short-term relationship for obtaining parity with competitors" (ibid. p.550). Thus, an operational partnering strategy seeks to improve operational efficiency and effectiveness. Such orientation involves shorter time spans and less organisational resources. Furthermore, in addition to such aspects of aligning interests, chain management has to consider aspects of coordination (GULATI et al. 2005) as well as the three levels within a network - namely firm, dyadic, and network levels (Duysters et al., 2004). In their framework on chain management HANF and DAUTZENBERG (2006) combined these considerations with the thought that networks consist of different levels. They point out that these three aspects have to be mirrored in the collective strategy¹ of a supply chain network.

Thus, if quality is the leading idea or strategy to be coordinated along the SCN, all members must share a homogeneous understanding of quality management, which provides the preconditions for the emergence of a collective strategy, and thus collective actions that address the chosen strategy. In this case, we expect a correlation between the chosen quality strategy and the design of the partnership. Therefore, the following assumption can be made in order to test it empirically in the second part of the study. If a firm chooses a pure cost leadership strategy, we expect that this firm will produce products that solely meet the minimum quality requirements. In this case, we expect that vertical exchange will take place by arm's-length transactions, meaning that vertical co-ordination is more or less done via the (spot) market. Thus, it will be sufficient for a cost-optimising firm to develop operational partnerships in both upstream and downstream stages. If a firm chooses the opposite strategy of product differentiation and quality attributes (especially credence elements) are chosen as the means of differentiation, we expect the firm to develop more sophisticated relationships. Yet we expect that the differentiated firms are more likely to develop strategic partnerships. In this case, vertical co-ordination can be regarded as highly cooperative or even vertically integrated.

3 Quality problems in co-operatives

In the previous section we argued that food quality is no longer the matter of a single firm, but instead the whole food chain has to work together in order to deliver the 'new quality'. However, Hanf and Schweickert (2003) as well as Hanf and Kühl (2005b) mention that due to their organisational form, co-operatives face problems integrating themselves in supply chain networks. A major reason for this is the co-op's internal institutions governing the behaviour of the co-op's members and affecting the co-op's ability to manage the quality of its products. Arguments for this are the following: In the context of increasing vertically co-ordinated agri-food systems, Sykuta and Cook (2001) showed that at the producer level, the most practical co-ordination mechanism is contracting. Because of their very own property rights structure, producer co-ops have some advantage compared to investor-owned firms. However, in addition to these benefits, they also face some problems (James and Sykuta 2005). By using a property rights approach, Cook (1995) pointed out five general sets of problems: Free Riding Problems, Horizon Problems, Portfolio Problems, Control Problems

¹ In general, collective strategies are defined as systematic approaches by collaborating organisations that are jointly developed and implemented (ASTLEY and FOMBRUN, 1983; ASTLEY, 1984; BRESSER, 1988; BRESSER and HARL, 1986; CARNEY, 1987; EDSTRÖM et al., 1984; SJURTS, 2000).

and Influence Cost Problems. As Cook (1995) showed, these sets of problems constrict the various types of co-operatives (Sapiro I-Nourse II) differently. Combining a principal-agent approach with the concepts of opportunistic behaviour, conflicts of interest, asymmetric information and stochastic conditions, EILERS and HANF (1999) show that it is not clear who is the principal and who is the agent, i.e., both the co-operatives and the members can be principals and agents. For this reason, neither leadership mechanisms nor selective terms of delivery can be enforced by the co-operatives, i.e., the members can deliver all the commodities which alternative dealers do not accept. Co-operatives that are to accept these commodities face the problem of adverse selection. Additionally, FULTON and GIANNAKAS (2001) show that the cross-subsidisation and member heterogeneity in large centralised, multipurpose co-ops may lead to substantial financial pressures for the co-operative, because members of such co-operatives do not see a strong connection between the success of the coop and their own business. Furthermore, KARANTININIS and ZAGO (2001) showed, by applying a game theory model, that instead of selling their commodities to open co-ops, farmers would rather sell them to investor-owned firms if they had the choice. FULTON (1995) concludes that if markets disappear as a result of an increased vertical co-ordination, cooperatives may also begin to disappear. HENDRIKSE and BIJMAN (2002) share this assessment if investment on the side of the processor or retailer becomes more important for the total chain value than the investments by the farmers. In an empirical survey, SCHRAMM et al. (2006) evaluated German dairy co-ops' brands. Using institutional economic and behaviour approaches, they showed the strengths and weaknesses of co-ops' branding strategies. Even though they were able to locate different factors exerting influence on branding strategies. quality issues were of major importance – negatively as well as positively. Besides these disadvantages, BRISCOE and WARD (2006) name some managerial advantages of co-ops, as far as small and medium-sized co-ops are considered; These include better communications with farmers, staff flexibility, easier (more efficient) control, hands-on management, greater motivation, and identification.

4 Chain quality management in Polish co-ops

We surveyed 19 of the 22 largest Polish dairy cooperatives in February and March 2006. All of them are producer co-operatives with milk processing being their prime economic activity. Roughly equal numbers of semi-structured interviews were conducted across the various hierarchical levels in the co-ops, including chief executive officers, quality managers, and supervisors in the marketing and supply departments. The sequence of the questioned representatives was the same for each co-op. The interviews were conducted by telephone and lasted between 20 and 40 minutes per respondent. This technique made particular sense in view of the above-mentioned research questions: On the one hand, chain quality management as well as networks concern activities and processes that are challenging to quantify and may even be ambiguous or misunderstood. On the other hand, the topics are particularly sensitive in emerging markets. Moreover, in those markets there might be some unique and relevant developments which have to be first recognised, while giving the respondents some freedom to explore our general views. In the following, we elaborate on the relevance of the previously considered quality management thoughts based on the surveyed cooperatives.

4.1 Choice of quality strategy

Generally we found, that all co-ops understand quality to be an important action competition parameter. At the same time, co-ops face a conflict between their principles and strategic goals i.e. quality orientation. However, the overall intensive competition is the main reason for the variety of the applied quality strategies among the coops.

Co-ops which take the role of the focal firm in a dairy chain especially act to escape from price competition by setting themselves apart and bringing quality to a differentiating parameter. Investments in brand, reputation and reduction of information asymmetry about product quality (social marketing, TV spots, food exhibitions, etc.) are becoming a priority for this group. All of those co-ops use intensive ISO quality standards. Some of them also implemented voluntary ISO standards on environmental management and possess an adequate certificate integrating both systems, whereas the remaining manufacturers of branded products intend to implement them in the near future. The respondents of those co-ops stressed that the main incentive for implementing the voluntary environmental standards was to demonstrate their environmental concerns, and hence to increase their reputation and brand loyalty. Several dairies in that group additionally address region-specific credence attributes, such as cultural and traditional values of the area where the co-op is located, and social justice while stressing the importance of product purchase for employment in rural areas. In most cases this strategy leads to a kind of 'local patriotism' among consumers, as far as the purchase of the regional milk products is concerned. To stabilise their market shares and to protect their independence, the co-ops with a strong brand reject producing and selling their products under a private retailer's label. This premium-quality strategy, however, usually concerns the largest of the investigated co-ops, and thus seems to be a minority when all Polish co-ops are considered.

On the other 'end' of the investigated firms are co-ops that utilise a strong cost-orientation for their competitive advantage. Cost leadership is achieved by economies of scale, thus producing basic products and improving the efficiency of all business operations is a priority for this group. In those groups there are usually no dominant standard-setting purchaser, thus the dairies have some freedom in their choice of quality strategies and measures to guarantee the effectiveness of the chosen strategy. Accordingly, those co-ops offer their products at the cheapest price (price leadership) while meeting just the minimum quality as demanded by the obligatory regulations. The representatives of those co-ops argued that there is so far no need to change this strategy, since there is still a profound group of low income consumers who demand their products, and hence enable attractive profits. Because the firms do not posses a strong brand, they use voluntary public quality certifications and labels to signal quality, such as "Q" (quality) and "Eco" (ecological), developed and assigned by the Polish Centre for Testing and Certification (PCBC). Some standards promote national food products of high and reliable quality, such as the "Try Fine Food" standards (PDZ) designed by the Polish Ministry of Agriculture and Rural Development. Representatives of the co-ops mentioned however, that they recognised that their products are currently threatened by the plurality of signs, which can sometimes even increase the uncertainty among consumers.

Between those two above-mentioned groups there are co-ops that are strongly dependent on direct purchasers. Usually these co-ops have no brand (or not a strong one) and regard the dominant purchaser as the standard-setting entities; they then adjust their quality strategy and management to the respective requirements.

If the focal company is a manufacturer requiring tightly-specified industrial products, the coop has to adjust quality assurance systems to the specific requirements (i.e., unique chemical or physical parameters). Quality signals and voluntary quality systems seem to be irrelevant to those co-ops. Some FDI use the possibility of intra-industry trade based on the co-ops' supply, since the co-ops have better access to the local milk suppliers. On the other hand, the co-ops benefit from the financial support of the focal firm, while carrying out relation-specific investments. Joint investments first concerned quality improvements at the procurement stage, and then the adoption of new processing technologies. The adherence to specific requirements is ensured by close business-to-business (B2B) relations, including some knowledge-sharing routines and enhanced monitoring. Additionally, in such direct relationships, the threat of direct and strong sanctions (losing the focal purchaser) limits opportunistic behaviour and facilitates cooperative adaptation by the co-op. At the same time, the high intensity of unexpected controls and enhanced monitoring suggests that the focal firm either does not trust the partner or must steadily improve the knowledge about its capability, as well as the correctness of the process.

If a dairy sells its products to a retail chain and the retailer then sells them as proprietary private label products, the implementation of retailer-specific schemes will be required. Thus, the processors are voluntarily obligated to implement standards for auditing retailer-branded food products, such as IFS and BRC. Interestingly, the retailers are satisfied if those concepts are running but they do not need to be certified, which seems to be specific for an emerging market. In this case, the quality standards are used to coordinate pooled interdependencies. We found that focal firms prefer control-based relationships rather than trust-based ones to govern partnership behaviours and the maintenance of their specific requirements. In particular, retailers with strong bargaining power apply restrictive control mechanisms, even if the running quality concepts are certified. Adjustment to the retailer-specific requirements involves investment in specialised resources, which increases the co-ops' dependence on retailers. However, because IFS and BRC are widely used standards, the co-ops have formal access to alternative institutional customers on the national or international markets.

4.2 Chain quality management

The chosen quality strategy influences the vertical coordination mechanism along the dairy chain. In the next step we investigate the linkages between quality performance and the design and intensity of vertical relationships with the upstream and downstream stages by examining three groups identified in our data set.

- 1) Manufacturers of branded products have recognised that they must actively create their own distribution opportunities. For all channels - retail, wholesale, and export - they use medium- and long-term contracts which contain all sorts of details that address product quality matters. Thus, the co-ops control, to some extent, quality measurements that are external to the firm. However, despite reciprocal information exchange and ongoing negotiations, these relationships still have an operational character. However, the co-ops increasingly use partnering mechanisms that are more strategic in nature, so marketing information such as point-of-sale data is exchanged. The co-marketing is particularly intensive in partnerships with retail chains, because it is based on ongoing negotiations and adjustments addressing sales strategies, promotions, and pricing behaviour. Typically, this leads to complex reciprocal interdependencies, which demand well-defined organisational principles and a certain level of management skills to govern the relationships. Such relationspecific systems seem to be unique for an individual chain of branded products manufacturer. Interaction at the procurement stage can also be described as intensive, especially with the larger and specialised farmers. Using incentives to upgrade the quality of raw milk, the co-ops exert a firm boundary for the overlapping quality scheme. Some of the actions result from the implementation of ISO quality standards, which require quality objectives to be included in the quality policy and to be leveraged to upstream stages. Additionally, the co-ops provide intensive consulting assistance and herd management for their members. One co-op even provided business angles as an alternative know-how source (technology transfer) as early as at the beginning of the 1990s. Overall, we think that in this case, we can speak not only from a chain quality concept; instead, it is a strategic one.
- 2) When the focal company is either a manufacturer or branded retailer, we found that purchasers prefer control-based relationships rather than trust-based ones to govern partnership behaviours and the maintenance of their specific requirements. In particular, retailers with strong bargaining power apply restrictive control mechanisms, even if the running quality concepts are certified. Adjustment to the retailer-specific requirements

involves investment in specialised resources, which increases the co-ops' dependence on the retailers. However, because IFS and BRC are widely-used standards, the co-ops have formal access to alternative institutional customers on the national or international markets. Contracts and managerial discretion are used to meet sequential interdependencies, with the contracts containing specifics on quality and payment. As long as these specifics are met, the duration is prolonged. Additionally, we found some reciprocal interdependencies among the partners in B2B relationships between the co-ops and the industrial purchaser. Overall, the relationships between the focal companies and the dairies are very intense. Therefore, this type of partnering is more strategic than operational. Regarding the relationship between coops and their members, we found that co-ops encourage growth strategies through intensive consulting assistance, which aims to select larger farms, hence, they use economies of scale. Overall, we conclude that supply chain networks are established and chain quality management is exercised. However, even though the partnering can be described as more strategic in nature, there is a lack of a collective quality strategy. Thus, we would classify the paradigm as an operational chain quality management. Because more and more retailers are bringing their proprietary private label products on the market, there is increasing price competition among the products. For the concerned co-ops, this means that they face strong pressure on the costs, which precludes resource allocation to more sophisticated quality management systems.

3) Because of the strong cost orientation of the basic product producers, it is not surprising that those processors apply mandatory standards and schemes and restrict their relationships with suppliers to the basic commitments and principals as regulated in the cooperatives' statute. Nevertheless, the co-ops' relationships seem to be better developed at the procurement stage than at the distribution stage. We could identify operational partnerships between the co-ops and their milk suppliers and some dyadic actions addressing the chosen quality strategy at this stage, but there is still a missing recognition of similar interests and initiatives to explore operational advantages in relationships with their institutional customers. Further development of retailers and wholesalers with strong bargaining power will force the dairies either to join their SCN or take the role of a focal company and strengthen their brand. Independent of that, the dairy must first create its supply chain network and develop a chain quality management.

5 Final remarks

Our survey on Polish dairy co-operatives provides new insights into quality management issues faced by cooperatives. First, our findings indicate that activities related to quality improvements are generally aligned with current market opportunities for optimal enterprise performance. On the one hand, co-ops recognise that they must deliver safe and reliable food and differentiate their products, at least in a partial way, to make them more attractive to the consumer. This indicates that even for the co-ops, food quality is more than plain food safety and the ability to continuously reproduce an ex ante defined set of attributes. On the other hand, co-ops face various problems, the largest of them being the conflict between the co-ops' principles and economic goals and limited financial and qualified human resources that would significantly improve both process and product quality. The co-ops' specific problems compel them to modify their production profile and usually to tap markets for basic products, since they are hardly able to compete with more flexible and strictly profit-oriented private enterprises on markets for high-value added products. However, our study reveals that there are some exceptions to this general observation, especially when examining the co-ops' chosen quality strategy and the design of the quality management systems. Overall, we conclude that in most cases, supply chain networks are established and chain quality management is exercised. However, this is only the case if there is a focal actor that influences its network structure. The results show that retail chains and industrial purchasers

with foreign investment and strong bargaining power usually take the position of the focal firm in the SCN. In those cases, strategic partnering between the individual chain stages dominates. However, because there is a lack of a collective quality strategy overlapping all actors, quality management initiatives are still operational in this case. There are still some Polish co-operative dairies that are not embedded in any SCN. These concern processors of non-branded goods or those with weak brands that sell their products to purchasers without a focal position. Because there is no powerful focal firm in the chain, no managerial discretion can be exerted and no chain quality management concepts can be installed. Thus, we could only identify operational partnerships between the co-ops and their milk suppliers and some dyadic actions addressing the chosen quality strategy at the procurement stage. In contrast, at the distribution stage we observed that the partners do not share homogenous interests regarding quality issues; there is even a lack of dyadic initiatives aimed at exploring the operational advantages of the cooperation.

Our empirical results show profound diversity regarding quality management approaches in the Polish milk supply chains. However, one thing is clear: The chosen quality strategy determines the design of the vertical coordination mechanism. Thus, the higher the product requirements, the further quality management systems go beyond a firm's boundaries and the stronger is the shift from operational towards strategic quality management.

References

- ALLAIRE, G., (2004): Quality in economics: a cognitive perspective. In Harvey, M., McMeekin, A., Warde, A. (eds), Qualities of food. Manchester University Press, Manchester: 61-93.
- ANTLE, J. M. (2001): Economic Analysis of Food Safety. In Gardner, B.L., Rausser, G.C. (eds), Handbook of Agricultural Economics. Vol. 1B: Marketing, Distribution and Consumers. North-Holand: Elsevier: 1083-1136.
- BOEHLJE, M. (1999): Structural changes in the agricultural industries: how do we measure, analyze and understand them? In: American Journal of Agricultural Economics 81 (5): 1028–1041.
- BRISCOE, R. and M. WARD (2006): Is small Both Beautiful and competitive? A Case Study of Irish Dairy Cooperatives. In: Journal of Rural Cooperation 34 (2): 113-134.
- COOK, M.L. (1995): The Future of U.S. Agricultural Cooperatives: A Neo-Institutional Approach. In: American Journal of Agricultural Economics 77: 1153-1159.
- DOWNEY, W.D. (1998): The Challenge of Food and Agri Products Supply Chains. In Trienekens, J.H. and Zuurbier, P.J.P. (eds.) proceedings of the 2nd international Conference on Chain Management in Agri- Food Business. Wageningen Agricultural University, Department of Management Studies.
- DUYSTERS, G.M., HEIMERIKS, K.H. and J.A. JURRIENS, (2004): An integrated perspective on alliance management. In: Journal on Chain and Network Science 4: 83-94.
- EILERS, C. and C.-H. HANF (1999): Contracts between Farmers and Farmers Processing Cooperatives: A Principal-Agent Approach for the Potato Starch Industry. In Galizzi, G., Venturini, L. (eds.), Vertical Relationships and Coordination in the Food System, Heidelberg, 267-284.
- FULPONI, L. (2006): Private voluntary standards in the food system: The perspective of major food retailers in OECD countries. In: Food Policy 31 (1): 1-13.
- FULTON, M. (1995): The Future of Canadian Agricultural Cooperatives: A Property Rights Approach. In: American Journal of Agricultural Economics 77: 1144-1152.
- FULTON, M. and K. GIANNAKAS (2001): Organizational Commitment in a Mixed Oligopoly: Agricultural Cooperatives and Investor-Owned Firms. In: American Journal of Agricultural Economics 83: 1258-1265.
- GULATI, R., LAWRENCE, P.R. and P. PURANAM (2005): Adaptation in vertical relationships: Beyond incentive conflicts. In: Strategic Management Journal 26: 415-440.

- HANF, C.-H. and K. DRESCHER (1994): "Der Einfluß von Verbraucherverhalten, Produktqualität und technischem Fortschritt auf vertikale Koordination im Nahrungsmittelsektor". In: Agrarwirtschaft 43: 423-430.
- HANF, J. H. and E. SCHWEICKERT (2003): Co-operative Success by Forming a Strategic Member Group. Paper presented at the Conference Vertical Markets and Co-operative Hierarchies, Bad Herrenalb, Germany.
- HANF, J.H. and C.-H. HANF (2005): Does food quality management create a competitive advantage? Paper prepared for the 92nd EAAE seminar on Quality Management and Quality Assurance in Food Chains, March 2-4, Göttingen, Germany.
- HANF, J.H. and KÜHL, R. (2005a): Branding and its Consequence for the German Agribusiness. In: Agribusiness: An International Journal 21: 177-189.
- HANF, J.H. and R. KÜHL (2005b): Supply Chain Networks in the Agri-Food Business -Challenges and Threats for Co-operatives. In Theurl (Hrsg.) Strategies for Cooperation. Shaker, Aachen.
- HANF, J.H. and K. DAUTZENBERG (2006): A theoretical framework of chain management. In: Journal on Chain and Network Science 6(2): 79-94.
- HANF, J.H. and A. PIENIADZ (2006): Quality management in strategic networks Is there any relevance in the Polish dairy sector? In Fritz, M., Rickert, U., Schiefer, G. (eds), Trust and Risk in Business Networks, University Bonn-ILB Press: 459-467.
- HENDRIKSE, G.W.J. and J. BIJMAN (2002): Ownership Structure in Agrifood Chains: The Marketing Cooperative. In: American Journal of Agricultural Economics 84: 104-119.
- HOCKMANN, H. and A. PIENIADZ (2006). Is a full diffusion of EU standards optimal for the development of the food sectors in the CEEC? The case of the Polish dairy sector. In Mattas K. & Tsakiridou E. (Eds.). Food Quality Products in the Advent of the 21st Century: Production, Demand and Public Policy, Cahiers Options Méditerranéennes, 64: 179-196.
- JAMES, H.,S., JR. and M. SYKUTA (2005): Property Right and Organizational Characteristics of Producer owned Firms and Organizational Trust. In: Annals of Public and Cooperative Economics 76 (4): 545–580.
- JARILLO, J.C. (1988): On strategic networks. In: Strategic Management Journal 9: 31-41.
- KARANTININIS, K. And A. ZAGO (2001): Endogenous Membership in Mixed Duopsonies. In: American Journal of Agricultural Economics 83: 1266-1272.
- LAZZARINI, S., CHADDAD, F. and M. COOK, (2001): Integrating Supply Chain and Network Analysis: The Study of Netchains. In: Journal on Chain and Network Science 1: 7-22.
- MENTZER J.T., MIN, S. and Z.G. ZACHARIA (2000): The Nature of Inter-firm Partnering in Supply Chain Management. In: Journal of Retailing 76: 549-568.
- NEVES, M.F. (2003): Marketing and Network Contracts (Agreements). In: Journal on Chain and Network Science 3: 7-19.
- OMTA, A.W.F., TRIENEKENS, J.H. and G. BEERS (2001): Chain and network science: A research framework. In: Journal on Chain and Network Science 1: 1-6.
- SCHRAMM, M., SPILLER, A. und T. STAACK (2006): Zur Markenlücke genossenschaftlicher Industrieunternehmen in der Ernährungswirtschaft Eine empirische Untersuchung, In: Zeitschrift für das gesamte Genossenschaftswesen 56 (3): 229-242.
- SPENCER, H. and T. REARDON (2005): Private Agri-food Standards: Implications for Food Policy and Agri-food Systems. In: Food Policy 30 (3): 241-253.
- SYKUTA, M.E. and M.L. COOK (2001): A New Institutional Approach to Contracts and Cooperatives. In: American Journal of Agricultural Economics 83: 1273-1279.
- UGLAND, T. and F. VEGGELAND (2006): Experiments in Food Safety Policy Integration in the European Union, Journal of Common Market Studies, 44 (3): 607-624.
- UNNEVEHR, L. J., MILLER G.Y. and M.I. GOMEZ (1999): Ensuring Food Safety and Quality in Farm-Level Production: Emerging Lessons from the Pork Industry. In: American Journal of Agricultural Economics 81 (5): 1096-1101.

- VAN DIJK, G. (1997): "Implementing the Sixth Reason for Co-operation: New Generation Co-operatives in Agribusiness" in Nilson, J. and/van Dijk, G. (eds.) "Strategies and Structures in the Agro-food Industries", van Gorcum, pp.: 94-110.
- WEBSTER, F.E. JR. (1992): The Changing Role of Marketing in the Corporation. In: Journal of Marketing 56: 1-17.
- WILDEMANN, H. (1997): Koordination von Unternehmensnetzwerken. In: Zeitschrift für Betriebswirtschaft 67: 417-439.
- ZYLBERSZTAJN, D. (2004): Organization of firm networks: Five critical points for empirical analysis. In: Journal of Chain and Network Science 4: 1-6.