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An application of Keller's brand equity model in a B2B context

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Abstract

Purpose – The importance of branding in industrial contexts has increased, yet a comprehensive model of business-to-business (B2B) branding does not exist, nor has there been a thorough empirical study of the applicability of a full brand equity model in a B2B context. This paper aims to discuss the suitability and limitations of Keller's customer-based brand equity model and tests its applicability in a B2B market.

Design/methodology/approach – The study involved the use of semi-structured interviews with senior buyers of technology for electronic tracking of waste management.

Findings – Findings suggest that amongst organisational buyers there is a much greater emphasis on the selling organisation, including its corporate brand, credibility and staff, than on individual brands and their associated dimensions.

Research limitations/implications – The study investigates real brands with real potential buyers, so there is a risk that the results may represent industry-specific factors that are not representative of all B2B markets. Future research that validates the importance of the Keller elements in other industrial marketing contexts would be beneficial.

Practical implications – The findings are relevant for marketing practitioners, researchers and managers as a starting-point for their B2B brand equity research.

Originality/value – Detailed insights and key lessons from the field with regard to how B2B brand equity should be conceptualised and measured are offered. A revised brand equity model for B2B application is also presented.

Keywords Business-to-business marketing, Brand equity, Buying behaviour

Paper type Research paper

Introduction

Powerful brands create meaningful images in the minds of customers (Keller, 1993). A strong brand image and reputation enhances differentiation and has a positive influence on buying behaviour (Gordon *et al.*, 1993; McEnally and de Chernatony, 1999). While the power of branding is widely acknowledged in consumer markets, the nature and importance of branding in industrial markets remains under-researched.

Many business-to-business (B2B) strategists have claimed brand-building belongs in the consumer realm. They argue that industrial products do not need branding as it



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is confusing and adds little value to functional products (Collins, 1977; Lorge, 1998; Saunders and Watt, 1979). Others argue that branding and the concept of brand equity however are increasingly important in industrial markets, because it has been shown that what a brand means to a buyer can be a determining factor in deciding between industrial purchase alternatives (Aaker, 1991). In this context, it is critical for suppliers to initiate and sustain relationships due to the small number of potential customers (Ambler, 1995; Webster and Keller, 2004). To date however, there is no model available to assist B2B marketers in identifying and measuring brand equity. In this paper, we take a step in that direction by operationalising and empirically testing a prominent brand equity model in a B2B context. This makes not only a theoretical contribution by advancing branding research, but also addresses a managerial need for information that will assist in the assessment of industrial branding efforts.

Brand equity in consumer and business markets

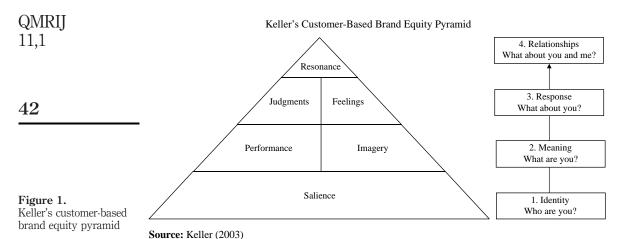
A brand is a bundle of functional, economic and psychological benefits for the end-user (Ambler, 1995). Every brand retains a certain amount of brand equity, defined as the assets or liabilities associated with the brand that add to, or subtract from, the value the product provides (Aaker, 1996). This is reflected in buyers' willingness to pay a premium for a favoured brand in preference to others, recommend it to peers, and give consideration to other company offerings (Hutton, 1997).

Different sources of brand equity have been proposed. Aaker (1996), for example, proposes brand awareness, associations, other proprietary assets, perceived quality and loyalty. Often though, there is no distinction made between consumer and industrial brands. The differences between consumer and business markets have been discussed elsewhere (Hutt and Speh, 1998; Kotler and Keller, 2005), and organisational buyers have been found to differ in their type of purchase and decision processes (Mudambi, 2002; Thompson *et al.*, 1998; Wilson and Woodside, 2001). It would seem reasonable that what makes a brand valuable in a B2B context will differ from that in a consumer environment.

The most comprehensive brand equity model available in the literature is Keller's (1993, 2001, 2003). Keller claims the customer-based brand equity (CBBE) model can be applied in a B2B context, but detailed analysis, a full formal adaptation (such as a redesigned questionnaire), and empirical evidence are not yet available. Keller recognises likely general differences between consumer and B2B markets and addresses general issues of B2B application, but his primary focus is on consumer markets. In an earlier issue of *Qualitative Market Research*, Grace and O'Cass (2002) recognised similar limitations of the Keller framework, but in relation to its coverage of services. We turn now to an overview of the specific steps in the Keller model and present a discussion drawing from B2B branding research.

Elements of the Keller model

Brand equity, as defined by Keller (1993), occurs when a brand is known and has some strong, favourable and unique associations in a consumer's memory. As shown in Figure 1, the CBBE model identifies four steps for building a strong brand. In this branding ladder, each step is dependent on successfully achieving the previous – from brand identity to brand meaning, brand responses and finally brand relationships. These steps in turn consist of six brand building blocks – salience, performance, imagery, judgments, feelings and resonance. The ultimate aim is to reach the pinnacle



of the CBBE pyramid – resonance – where a completely harmonious relationship exists between customers and the brand.

Keller's (2003) argument is as follows. The first step in building a strong brand is to ensure the correct brand identity. The purpose is to create an identification of the brand with customers, and an association in their minds with a specific product class or need. To do this, brand salience must exist, which represents aspects of brand awareness and the range of purchase and consumption situations in which the brand comes to mind. The salience building block is therefore made up of two sub-dimensions – need satisfaction and category identification.

B2B products also possess images, associations and perceptions of value, but initial awareness and associations are often achieved by direct contact with company salespeople (Gordon *et al.*, 1993). In industrial markets, branding is dependent on the surrounding distribution network (Gordon *et al.*, 1993; Rosenbroijer, 2001), making the role of distributors particularly important in building equity. Large organisations often have a buying centre consisting of a number of parties from various departments, as well as specialists and other interest groups, all of whom impact the purchase decision (Gordon *et al.*, 1993; Morris *et al.*, 1999; Rozin, 2004). This makes the process more complex, as each member will possess different needs and will view the purchase situation, buying criteria and alternative suppliers in various ways (Ghingold and Wilson, 1998). The Keller model is focused primarily on an individual's perceptions of brands in the assessment of brand equity, but in a B2B context these other influencers can have an impact on brand equity as well.

The second step establishes brand meaning by linking tangible and intangible brand associations. Brand meaning is therefore characterised in either functional (brand performance) or abstract (image-related) associations. Functional attributes are:

- · primary ingredients and supplementary features;
- product reliability, durability and serviceability;
- service effectiveness, efficiency and empathy;
- style and design; and
- · price.

Keller's brand equity model

· user profiles;

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- · purchase and usage situations;
- · personality and values; and
- history, heritage and experiences (Keller, 2003).

By contrast, industrial research suggests that brand value has other components including the product, distribution services, support services and the company, each possessing both tangible and intangible elements (Low and Blois, 2002; Mudambi *et al.*, 1997). Keller's model tends to ignore elements relating to support services (specifically the rapport between the service provider and customer) and the company (such as profitability, market share and reputation), which may have greater importance in a B2B context. Similarly, Thompson *et al.* (1998) identify other brand attributes associated with the industrial purchasing process. Again, many of these are consistent with Keller's brand meaning construct, but attributes such as technical capability, delivery reliability and responsiveness are not included.

It appears that quality, reliability, performance and service are primary factors for building brand loyalty in the industrial context, with quality being paramount (Bendixen *et al.*, 2004; Michell *et al.*, 2001; Thompson *et al.*, 1998). Keller sees this in the higher order pyramid block judgments, but ignores the customer relationship with the sales team due to his concentration on consumer markets. The sales force is a major brand-building tool for B2B marketers (Abratt and Mofokeng, 2001; Lorge, 1998). A buyer's purchase choice depends not only on their assessment of the product's functional benefits, but also on their evaluation of the company's sales people (Gordon *et al.*, 1993; Michell *et al.*, 2001). These staff are company advocates who can affect the brand meaning in various ways (Hogg *et al.*, 1998; Kennedy, 1977; Tilley, 1999).

The Keller pyramid is also focused on the individual brand but B2B products are often marketed under the manufacturer label, or a hybrid brand, where the company's name is used with a specific product name (Gordon *et al.*, 1993; Michell *et al.*, 2001). This makes the company name an important decision variable. Factors relating to the company behind the brand form only a minor part of the Keller model, but they are important in a B2B context (Selnes, 1993; Thompson *et al.*, 1998). For example, Abratt (1986) found supplier reputation to be more important than price, and Shaw *et al.* (1989) showed that intangible attributes are often more important than product performance.

Brand response is the third step in the Keller model and represents opinions and evaluations of the brand based on a combination of associations identified in brand meaning. These judgments include overall quality, credibility, consideration and superiority. Brand feelings are customers' emotional responses and reactions to the brand. Keller (2003) identifies six types: warmth, fun, excitement, security, social approval and self respect.

This approach reflects a customer focus on the functional, emotional and self-expressive benefits of brands. In contrast, industrial brand management is characterised by branding at the corporate level (Gylling and Lindberg-Repo, 2006), with greater customer emphasis on risk-reduction than on expressive benefits (Mudambi, 2002). One way of managing and decreasing risk and uncertainty for the organisation is to buy leading brands from reputable companies (Mitchell, 1995; Mudambi, 2002). This supports the importance of feelings and imagery in the

organisational buying context (as argued by other researchers such as Lynch and de Chernatony, 2004), but suggests that different types of feelings and imagery to those specified by Keller, may be required in a B2B brand equity model.

Brand relationships constitute the final step in the pyramid where brand response is converted to create an intense, active loyalty relationship between customers and the brand. The pinnacle of the pyramid is resonance, which refers to the nature of the relationship between the customer and the brand. It is described as having four elements: behavioural loyalty, attitudinal attachment, sense of community and active engagement (Keller, 2001).

Customer loyalty generating factors have also been found to be important to the success of industrial brands (Michell *et al.*, 2001). Unlike consumer markets, the gain or loss of a few customers can significantly impact an industrial manufacturer's bottom line. This makes brand loyalty particularly important as it is, in some respects, firm loyalty (Gordon *et al.*, 1993). Changes for one individual product may affect perceptions of all products and cause a distributor to switch suppliers in all categories after a poor experience with an individual good (Gordon *et al.*, 1993). While there is a lack of research to confirm the existence of attitudinal attachment and a sense of community in industrial markets, there is evidence of active engagement. Hutton (1997) found willingness to communicate about the brand and make brand referrals. He also found that some organisational buyers had developed such a strong relationship with the brand they were willing to extend to other products with the same brand name.

In order to assess the applicability of the Keller model in a B2B environment and identify insights and challenges of such an application, we undertook a study of the market for electronic tracking systems for waste management. This represents an interesting market for investigation. The marketing of high-technology products is challenging and the use of brands has been minimal until recently (Zajas and Crowley, 1995). An increasing number of these companies, however, are now undertaking brand building activities with the assumption they can create an asset that generates long-term profits (Aaker and Jacobson, 2001).

Electronic tracking systems for waste management

Australia's Environmental Protection Agency requires local authorities to maintain records of the generation, collection, transportation and disposal of hazardous trade wastes in their respective shires or counties. Legislation requires an audit trail to prevent illegal dumping. Many local government authorities had been using a docket system, similar to that operated in the UK and elsewhere in Europe. However, a need was recognised by the waste industry to use environmental management technology in order to comply with reporting requirements. In response, the profile of companies with electronic means of waste tracking was raised.

Two main competitors operate in this market, offering different types of waste tracking technologies – a bar code docket system versus a system which uses Global Positioning System (GPS) satellites. The bar code system aims to streamline the billing process, track the time and place at which a transporter is discharging waste, and identify a transporter or load in the case of disruption at a treatment plant. In addition to these benefits, the GPS system can track the movements of waste while aboard transportation vehicles, and record any volume and load/unload events. The industry is in the introduction stage of the product life cycle. At the time of the study, two councils

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were in the process of deployment of the GPS system, and half a dozen councils were using the bar code system. Other local authorities were postponing their decision as to which product they would use in order to more accurately assess the two alternatives.

The current research was conducted in two stages. First, a study was performed to obtain preliminary insights from buyers of waste tracking systems regarding branding issues. The purpose was to test a pure Keller CBBE model and identify what problems would emerge in its empirical application in a B2B context. A second study was then conducted to validate the findings and address the limitations of Study 1. A larger sample was tested using a revised questionnaire that was adapted specifically for the B2B context.

Study 1

Method

Face-to-face interviews were performed with senior management from a waste tracking company to obtain information about the technologies, market environment, purchase processes and councils. From this, a survey instrument was developed for use with a sample of councils. The company provided contact details and allowed the use of its brand. A sample of five Eastern Australian councils was selected for Study 1. Councils were chosen based on their stage in the purchase decision process and their perceived level of knowledge about the two main waste tracking brands (the brand using the GPS, from here on termed Brand A, and the bar code docket system, Brand B). One council was known to be using Brand A, two were known to be using Brand B, another council was close to releasing a tender for a system, and the fifth was engaged in initial discussions with the suppliers.

Respondents within the five councils were trade waste officers, who are responsible for the pick-up and collection of trade waste in their respective shires. They often initiate and influence the purchase decision, and ultimately use the technology. Interviews were conducted by telephone and followed a semi-structured format. They lasted up to 35 minutes. The survey consisted of a series of closed-and open-ended questions, addressing each aspect of Keller's pyramid. Questions asked respondents about the two waste tracking brands and were ordered based on the sequence of four steps and six brand building blocks in the CBBE pyramid. The second part asked respondents how they felt about the questionnaire to test their view of the content and comprehensiveness of the model. The aim was to obtain direct feedback from respondents as to their opinion of the suitability of the approach, and to identify limitations inherent in the Keller structure.

Findings

Study 1 revealed the following:

- Respondents placed a greater emphasis on the manufacturers' corporate brand names rather than the individual product brands, and demonstrated greater awareness of these, suggesting a B2B brand equity framework needs to give major attention to the corporate brand names.
- Respondents identified primarily with company brands and spoke about their relationships with company representatives rather than product brands.
- Brand elements such as slogans and brand names lacked relevance to respondents, who explicitly stated they were more interested in the product offering.

- When asked about brand associations most respondents identified product performance features, which would be categorised in Keller's performance building block. Style and design, which feature in the Keller model, were not mentioned.
- When asked what factors would be important to their councils in purchasing an electronic tracking system for waste management, respondents mentioned many factors that represent sub-dimensions of Keller's performance building block. Some new factors however, not part of the Keller model were identified. Overall, respondents were seeking a system that could be easily implemented and used, that satisfied all the various necessary applications, and that was flexible enough to be upgraded, expanded and improved over time. Evidence of proven technologies also emerged as another important B2B performance attribute.
- All respondents seemed to know about the activities of other councils, suggesting Keller's sub-dimensions of user profiles and purchase and usage situations have relevance in an industrial marketing context.
- Two of Keller's sub-dimensions under the imagery brand building block were not mentioned by respondents. The two waste tracking brands did not possess any personality traits or values, nor did they possess any associations related to history, heritage or experiences.
- Aspects of the Keller brand judgments building block appeared relevant in this
 organisational purchasing environment, however credibility emerged as an even
 more important element. Respondents considered Brand B a proven product and
 therefore its manufacturer had more credibility. The technology of Brand A was
 regarded as innovative and possibly superior.
- Keller's feelings building block lacked relevance in this market, with responses suggesting the purchase process is more rational than emotive.
- Respondents failed to demonstrate any behavioural loyalty, attitudinal attachment, sense of community, or active engagement as per Keller's brand resonance building block.
- When asked about the suitability of the Keller model approach, one respondent
 mentioned he was unsure whether he should have responded based on his own
 personal perspective or that of his council. This indicates a B2B brand equity
 model should take into account the role of the organisation buying centre and the
 brand perceptions of all members.

Discussion

Study 1 revealed difficulties in applying a pure Keller model in a B2B context, and identified further elements potentially in need of inclusion. With the small sample size however, there was the risk the results were not representative, providing justification for an extended study with a larger sample to validate the findings. Study 1 also failed to capture key insights due to the structure of the questionnaire. It was designed based on the Keller model in its pure form, therefore the purpose of that question set was to assess the equity of brands of electronic tracking systems for waste management, not their manufacturers. Respondents who were unaware of the product brand names were not asked subsequent questions relating to associations, feelings and so on, even if they were aware of the manufacturer's brand.

equity model

Study 2

The purpose of Study 2 was to take the pure Keller questionnaire from Study 1, adapt it for B2B based on the feedback and results, and then test the revised survey on a larger sample.

Method

A sample of 30 Eastern Australian local authorities was selected for Study 2. Selection was based on the population of the region represented (an indicator of whether a council has a need for an electronic tracking system for waste management is the number of constituents in the district). From a sample frame of 125 councils, those with less than 10,000 people were eliminated. Of the remaining 50, 30 were selected based on their system knowledge. A total of 26 useable responses were obtained.

Telephone interviews followed a semi-structured interview format and lasted between 10 and 40 minutes. Notes taken were later transcribed into word processing files so conclusions could be drawn. The survey instrument was similar to Study 1 in that it consisted of a series of closed-and open-ended questions. The survey was again structured in two parts, with the first consisting of questions following Keller's guidelines, and the second asking respondents about the suitability of the Keller model approach. A key limitation of the first study was that by using the Keller model in its pure form, the questions were designed to assess the equity of the individual product brands. The second questionnaire therefore assessed respondents' recognition of the corporate and product brand names for both Brands A and B, with respondents then asked about associations for each individually.

Additional questions were incorporated into the questionnaire that represented key findings of Study 1. In order to understand the role of company representatives in building brand equity and the importance of the company behind the product, respondents were asked what aspects of the company and of their relationship with company representatives would be important in considering to purchase an electronic tracking system for waste management. A question was also incorporated about credibility. Two questions were introduced to determine the existence and structure of the organisation buying centre, as well as the role of respondents in this group. The full questionnaire is provided as the Appendix. It includes detailed instructions for the interviewer. Italicised comments explain the conceptual purpose for each question, although these could be deleted for fieldwork.

Findings

Brand awareness and brand elements. Brand awareness was found to be higher overall for Brand B, with brand recognition much stronger than brand recall. When asked to recall brands of electronic tracking systems for waste management, 65 per cent of respondents could not think of any, and in only two instances respondents recalled both the manufacturer and product brands together. A total of 54 and 96 per cent of respondents recognised the product brand and manufacturer brand, respectively, for Brand B. For Brand A, 27 per cent of respondents recognised the product brand, while 42 per cent recognised the manufacturer's brand. Breadth of awareness was relatively low for Brand A, with 23 per cent of respondents correctly recalling the manufacturer when asked about companies which use GPS to monitor the movements of assets. When asked with which manufacturer respondents associated Brand A, only 28 per cent correctly recalled the manufacturer. When prompted, all respondents who indicated they did not know, correctly recognised Brand A's manufacturer. Awareness of the manufacturer brand names was therefore shown to be stronger than awareness of the product brands themselves.

For Brand A and its manufacturer, strong associations were evident with GPS tracking, military technology, and one of the councils currently using the system. Associations for Brand B and its manufacturer were: waste water/trade waste/bar codes/waste tracking system, compliance and making sure things are done properly and again, names of councils using the system. Overall, the majority of respondents listed more associations when asked about the manufacturers than when asked about the individual product brands. Most of the associations provided for the manufacturers related to the systems themselves. In many instances, the same associations were listed for the manufacturer and product brands. To respondents the product brand and manufacturer brand name were synonymous.

Respondents placed more emphasis on the companies behind the brands than the brands themselves. Two respondents specifically stated they did not use the product brand when referring to the systems, but rather used the company names to distinguish between products. When asked about awareness and associations for the manufacturers and the product brands, other trade waste officers expressed confusion and asked if these were the same. The results highlight the importance of measuring the equity of manufacturers' brand names.

Brand B did not have a slogan, but Brand A did. Only two respondents correctly identified the brand associated with the slogan. The implication for branding appears to be that B2B buyers care little about product slogans and more about the product offering.

Brand associations. Key criteria for assessing brand associations in Keller's model are their perceived favourability and uniqueness. Trade waste officers were therefore asked open-ended questions about which factors were most favourable, least favourable and most unique about Brands A and B. Responses mostly referred to features of the products, which would fall under the Keller building block performance. Respondents focused on aspects of the brands that would satisfy their functional needs. It should be noted that style and design, which feature in the Keller model, were again not mentioned.

Subjects were asked what factors would be important to their councils in purchasing an electronic tracking system for waste management. The most important factors were system usability and simplicity, and cost/price. Other important factors included system reliability and dependability, compatibility with existing systems, flexibility, and reporting functionality. Many of these represent sub-dimensions of Keller's performance and imagery building blocks, however some new elements emerged.

When asked what aspects of the company behind the product were important in considering the purchase of a waste tracking system, the fact that the technology/system is proven emerged as the most important factor. Around 64 per cent of respondents mentioned such factors as the manufacturers' proven track record, experience in the industry and involvement with other local government authorities. Respondents indicated they wanted to see the system set up in other councils and wished to speak with these councils to gauge their satisfaction. Other important factors included after sales service and support, as well as company stability. Respondents generally wanted to see some indicator of longevity and proof the supplier would be there to assist them in the future.

When asked about associations for the manufacturers and their brands, amongst the strongest associations for both Brands A and B were the names of councils using

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these systems. Overall, respondents demonstrated detailed knowledge of system users. This tended to favour Brand B, which is better established in the market and more extensively used.

Similar to Study 1, it was found the two waste tracking brands do not possess any personality traits or values, nor do they possess any associations related to history, heritage or experiences.

Brand judgments. When asked about their overall opinion of the waste tracking brands and their quality, 50 per cent of respondents who were eligible to answer the question stated they did not have an opinion, or that they did not know. Respondents generally wanted some form of demonstration or exposure to the product before forming a judgment. Other respondents stated the systems seemed "good" based on their investigations or initial research.

Several respondents took into consideration the experiences of other users in forming their brand judgments. Two respondents mentioned that although they had no personal involvement with the products, they presumed the quality was "decent" as a result of their discussions with other councils who were "comfortable" with the products.

It was evident that both brands were under consideration by all respondents. Both were considered personally relevant by respondents although cost was an issue. Responses indicated Brand B was perceived to be superior to Brand A. This seemed to be due to Brand B being a proven product. The technology of Brand A was again regarded as superior.

Credibility was one element identified as being of key importance, even more important than recognised by Keller. In this market, respondents identified primarily with the manufacturer and spoke about their relationships with company representatives.

Brand feelings. The responses suggest that feelings do not play an important role in this B2B market, suggesting the purchase process is more rational than emotive.

Brand resonance. Brand resonance was not evident. In discussing their experiences, respondents again referred to product functionality and tangible product performance as reasons for purchasing. Some respondents already using a waste tracking brand spoke about the terms of their contracts, and the possibility of switching to the competitive product following the contract completion. Behavioural loyalty appeared to be a consequence of the contract period, with respondents stating after this time they would review all products to determine which would best meet their needs at the right price. Also, although the experience of other users plays a critical role during the decision making process, the respondents did not feel any type of kinship or affiliation with other users of the same brand post-purchase.

Active engagement was not evident. No respondents who had purchased an electronic tracking system were willing to invest time, energy, money or other resources to get to know the brands better beyond those expended during purchase and consumption (Keller, 2003). Some trade waste officers indicated they speak with other local government authorities about the brands they are using, but they did not actively engage in word-of-mouth communication.

The findings reveal that the application of Keller's resonance building block in this organisational context poses difficulties. The buyers generally appeared to keep an objective, detached perspective (rather than displaying enthusiasm or advocacy). This is a major difference from consumer brands.

Company representatives and brand equity. The company and its representatives play a major role in building brand equity. When asked about their relationship with

the brand, respondents spoke about their relationships with company salespeople. This further reinforces that in an industrial context, it is buyers and sales staff that interact, not customers and brands as in the consumer environment. When asked what aspects of their relationship with the sales team and other company representatives would be important in purchasing an electronic tracking system, respondents offered a number of insights. The most important factor was the ability to contact company representatives, followed by after-sales service/support, and staff honesty. Respondents expressed their desire to have sales staff understand their individual needs and work in partnership with them to satisfy requirements.

The organisation buying centre. Prior research going back many years has shown the importance of the organisational buying centre (Robinson et al., 1967; Sheth, 1973; Spekman and Stern, 1979; Webster and Wind, 1972). For almost all respondents in the current study, the decision to purchase is made by a buying centre, which involves a number of parties from across the organisation. There was no uniform structure identified across the councils surveyed, however all but one respondent mentioned others would be involved in the decision in some way. In several cases, external parties connected to council were also directly involved, such as ratepayers and contracted transporters. Respondents expressed concern about the impact of the technology on these users. Almost a quarter expressed concern about equipment installation on the waste trucks specifically. Cost was also an important factor and respondents spoke about who would willingly bear this. Finally, almost 100 per cent mentioned the regulatory body and its impact on the decision-making process.

Discussion

The findings of the second study support those of Study 1, and reveal a number of dimensions that should be considered when measuring the equity of B2B brands. Many of these dimensions are found in Keller's framework, however the emphasis on some of these dimensions differs. Further, factors have also been identified. We show a revised model at Figure 2.

Overall, assessing the brand equity of the corporate or manufacturer brand names would seem more appropriate in a B2B context than measuring the equity of the

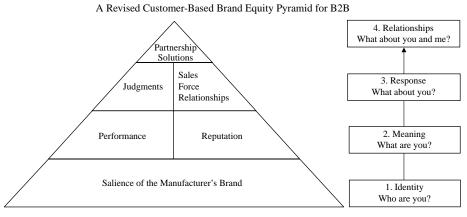


Figure 2. A revised customer-based brand equity pyramid for B2B

Source: Keller (2003) and the current study

individual product brands. Second, the salience, performance, imagery and judgments building blocks are applicable in an organisational context, although differences in the sub-dimensions for these blocks have been identified. Some brand elements such as product slogans appear to lack relevance to organisational buyers, while user profiles, purchase and usage situations and credibility are even more important than suggested by Keller. Feelings did not play a role in the industrial marketing context and the pinnacle of Keller's CBBE pyramid, resonance, may need modifications to be more relevant. Company representatives play a role in building brand equity, thus indicating a need for this human element to be recognised in a B2B brand equity model.

An issue for a single industry case study such as this is of course, that of generalisability, but the findings are consistent with those of Mudambi (2002). Mudambi's research identified three clusters of B2B customers, each of which differs in terms of the importance of branding in the purchase decision. Respondents in the current study most closely identify with her "highly tangible cluster" as they indicated physical product improvements were important, and their focus was on tangible, quantifiable and objective benefits of the products and their manufacturers.

The emotional and self-expressive benefits were unimportant, but respondents highlighted the need for support from well-established, reputable and flexible manufacturers. They acknowledged the importance of a high-quality physical product as well as augmented services. Mudambi claims a combination of a strong company brand and an effort to differentiate individual brands is likely to be most effective with firms in this cluster, as they are less receptive to branding. This appears to be the case in the current study.

The generalisability of our findings may be stronger for industries fitting into Mudambi's highly tangible cluster. Our questionnaire however is general enough to pick up relevant associations from other Mudambi industry clusters (such as where feelings are important), and therefore could be used as a first step in considering how to measure brand equity.

Limitations and future research

This research begins the assessment and adaptation of a major brand equity model for the B2B context, but it is by no means the end. Although, insights and challenges have been identified in applying Keller's CBBE model, there is a risk the results may represent industry-specific factors that are not representative of all B2B markets. One potential limitation of the study is that no distinction was made between the B2B and business-to-government environments. This represents a future research opportunity (though we suspect the basic B2B brand equity framework would apply to both). Further, in choosing trade waste management for investigation, it is possible context-specific factors even within the Mudambi highly tangible cluster may have implications limited to this market. Those aspects that were not important in the industry studied could be important in other industries. Further, research is therefore required to validate the findings in different industrial marketing contexts.

The advantage of the current study is that it captures detailed insights and key lessons from the field with regards to how B2B brand equity should be conceptualised and measured, by investigating real brands with real potential B2B buyers. This study is both accessible and appropriate for marketing practitioners, and even makes available a tested questionnaire adapting Keller's model. Though there are unresolved

issues, it is still the most developed questionnaire available in the literature, which can serve as a starting point for managers' and researchers' B2B brand equity research.

References

- Aaker, D.A. (1991), Managing Brand Equity: Capitalising on the Value of a Brand Name, Free Press, New York, NY.
- Aaker, D.A. (1996), Building Strong Brands, Free Press, New York, NY.
- Aaker, D.A. and Jacobson, R. (2001), "The value relevance of brand attitude in high-technology markets", *Journal of Marketing Research*, Vol. 38 No. 4, pp. 485-94.
- Abratt, R. (1986), "Industrial buying in high-tech markets", *Industrial Marketing Management*, Vol. 15 No. 4, pp. 293-8.
- Abratt, R. and Mofokeng, T.N. (2001), "Development and management of corporate image in South Africa", *European Journal of Marketing*, Vol. 35 Nos 3/4, pp. 368-86.
- Ambler, T. (1995), "Building brand relationships", Financial Times Mastering Management Series, No. 6, pp. 8-11.
- Bendixen, M., Bukasa, K.A. and Abratt, R. (2004), "Brand equity in the business-to-business market", *Industrial Marketing Management*, Vol. 33 No. 5, pp. 371-80.
- Collins, L. (1977), "A name to conjure with a discussion of the naming of new brands", European Journal of Marketing, Vol. 11 No. 5, pp. 339-63.
- Ghingold, M. and Wilson, D.T. (1998), "Buying centre research and business marketing practice: meeting the challenge of dynamic marketing", *The Journal of Business & Industrial Marketing*, Vol. 13 No. 2, pp. 96-108.
- Gordon, G.L., Calantone, R.J. and di Benedetto, A.C. (1993), "Brand equity in the business-to-business sector: an exploratory study", *Journal of Product and Brand Management*, Vol. 2 No. 3, pp. 4-16.
- Grace, D. and O'Cass, A. (2002), "Brand associations: looking through the eye of the beholder", Qualitative Market Research, Vol. 5 No. 2, pp. 96-111.
- Gylling, C. and Lindberg-Repo, K. (2006), "Investigating the links between a corporate brand and a customer brand", *Journal of Brand Management*, Vol. 13 Nos 4/5, pp. 257-67.
- Hogg, G., Carter, S. and Dunne, A. (1998), "Investing in people: internal marketing and corporate culture", Journal of Marketing Management, Vol. 14 No. 8, pp. 879-95.
- Hutt, M.D. and Speh, T.W. (1998), Business Marketing Management: A Strategic View of Industrial and Organisational Markets, 6th ed., Dryden Press, Fort Worth, TX.
- Hutton, J.G. (1997), "A study of brand equity in an organisational-buying context", Journal of Product and Brand Management, Vol. 6 No. 6, pp. 428-39.
- Keller, K.L. (1993), "Conceptualising, measuring and managing customer-based brand equity", Journal of Marketing, Vol. 57 No. 1, pp. 1-22.
- Keller, K.L. (2001), "Building customer-based brand equity", Marketing Management, Vol. 10 No. 2, pp. 14-19.
- Keller, K.L. (2003), Strategic Brand Management: Building, Measuring and Managing Brand Equity, 2nd ed., Prentice-Hall, Englewood Cliffs, NJ.
- Kennedy, S.H. (1977), "Nurturing corporate images", European Journal of Marketing, Vol. 11 No. 1, pp. 120-64.
- Kotler, P. and Keller, K. (2005), Marketing Management, 12th ed., Prentice-Hall, Englewood Cliffs, NJ.
- Lorge, S. (1998), "Better off branded", Sales & Marketing Management, Vol. 150 No. 3, pp. 39-42.

equity model

- Low, J. and Blois, K. (2002), "The evolution of generic brands in industrial markets: the challenges to owners of brand equity", *Industrial Marketing Management*, Vol. 31 No. 5, pp. 385-92.
- Lynch, J. and de Chernatony, L. (2004), "The power of emotion: brand communication in business-to-business markets", *Journal of Brand Management*, Vol. 11 No. 5, pp. 403-19.
- McEnally, M.R. and de Chernatony, L. (1999), "The evolving nature of branding: consumer and managerial considerations", *Academy of Marketing Science Review*, Vol. 1999 No. 2, p. 1.
- Michell, P., King, J. and Reast, J. (2001), "Brand values related to industrial products", *Industrial Marketing Management*, Vol. 30 No. 5, pp. 415-25.
- Mitchell, V.W. (1995), "Organisational risk perception and reduction: a literature review", *British Journal of Management*, Vol. 6 No. 2, pp. 115-34.
- Morris, M.H., Berthon, P. and Pitt, L.F. (1999), "Assessing the structure of industrial buying centres with multivariate tools", *Industrial Marketing Management*, Vol. 28 No. 3, pp. 263-76.
- Mudambi, S. (2002), "Branding importance in business-to-business markets: three buyer clusters", *Industrial Marketing Management*, Vol. 31 No. 6, pp. 525-33.
- Mudambi, S., Doyle, P. and Wong, V. (1997), "An exploration of branding in industrial markets", Industrial Marketing Management, Vol. 26 No. 5, pp. 433-46.
- Robinson, P.J., Faris, C.W. and Wind, Y. (1967), *Industrial Buying and Creative Marketing*, Allyn and Bacon, Boston, MA.
- Rosenbroijer, C.J. (2001), "Industrial brand management: a distributor's perspective in the UK fine-paper industry", *Journal of Product and Brand Management*, Vol. 10 No. 1, pp. 7-25.
- Rozin, R.S. (2004), "Buyers in business-to-business branding", *Journal of Brand Management*, Vol. 11 No. 5, pp. 344-5.
- Saunders, J.A. and Watt, F.A. (1979), "Do brand names differentiate identical industrial products?", Industrial Marketing Management, Vol. 8 No. 2, pp. 114-23.
- Selnes, F. (1993), "An examination of the effect of product performance on brand reputation, satisfaction and loyalty", *European Journal of Marketing*, Vol. 27 No. 9, pp. 19-35.
- Shaw, J., Giglierano, J. and Kallis, J. (1989), "Marketing complex technical products: the importance of intangible attributes", *Industrial Marketing Management*, Vol. 18 No. 1, pp. 45-53.
- Sheth, J.N. (1973), "A model of industrial buyer behaviour", Journal of Marketing, Vol. 37 No. 4, pp. 50-6.
- Spekman, R.E. and Stern, L.W. (1979), "Environmental uncertainty and buying group structure: an empirical investigation", *Journal of Marketing*, Vol. 43 No. 2, pp. 54-64.
- Thompson, K.E., Knox, S.D. and Mitchell, H.G. (1998), "Business to business brand attributes in a changing purchasing environment", *Irish Marketing Review*, Vol. 10 No. 2, pp. 25-32.
- Tilley, C. (1999), "Built-in branding: how to engineer a leadership brand", Journal of Marketing Management, Vol. 15, pp. 181-91.
- Webster, F.E. Jr and Keller, K.L. (2004), "A roadmap for branding in industrial markets", *Journal of Brand Management*, Vol. 11 No. 5, pp. 388-402.
- Webster, F.E. Jr and Wind, Y. (1972), "A general model for understanding organisational buying behaviour", *Journal of Marketing*, Vol. 36 No. 2, pp. 12-19.
- Wilson, E.J. and Woodside, A.G. (2001), "Executive and consumer decision processes: increasing useful sensemaking by identifying similarities and departures", *Journal of Business & Industrial Marketing*, Vol. 16 No. 5, pp. 401-14.
- Zajas, J. and Crowley, E. (1995), "Commentary: brand emergence in the marketing of computers and high technology products", *Journal of Product & Brand Management*, Vol. 4 No. 1, pp. 56-63.

Appendix. Questionnaire

Section 1: The Waste Management Industry

Q1 When you think of companies which u	isti y	
Global Positioning System or GPS to r	nonitor th	e
movements of assets such as vehicles a		
equipment, what brands can you think		
(Allow the respondent to name as many as t		
(Salience-awareness-depth-recall-product c	ategory)	
2		
3		
4		
5		
6		
7 Can't think of any/ Don't know		
Q2 When you think of electronic tracking		
waste management, what brands can y		01?
(Allow the respondent to name as many as t	hey can)	
(Salience-awareness-depth-recall-product)		
2		
3		
4		
5		
6		
7 Can't think of any/ Don't know		
Q3 Answering yes or no, have you ever he	ard of the	se
brands? (Salience-awareness-breadth-	recognitio	n)
	Yes	No
a) Brand A	1 🗆	2 🗆
b) Manufacturer A	1 🗆	2 🗆
c) Brand B	1 🗆	2 🗆
d) Manufacturer B	10	2 🗆
e) Brand C	1 🗆	2 🗆
f) Manufacturer C	1 🗆	2 🗆
g) Brand D	1 🗆	2 🗆
Q4 When I say Brand A, what are the first		
associations that come to your mind? A	Anything	
associations that come to your mind? A else? (ASK QUESTION ONLY IF RESPONDENT)	ANSWE	
associations that come to your mind? A else? (ASK QUESTION ONLY IF RESPONDENT YES IN Q3a). (Allow the respondent to nam	ANSWE	
associations that come to your mind? A else? (ASK QUESTION ONLY IF RESPONDENT YES IN Q3a). (Allow the respondent to nam they can. Prompt for further responses)	ANSWE	as
associations that come to your mind? A else? (ASK QUESTION ONLY IF RESPONDENT YES IN Q3a). (Allow the respondent to nam they can. Prompt for further responses) (Salience-awareness & usage-brand specific	ANSWE	as
associations that come to your mind? A else? (ASK QUESTION ONLY IF RESPONDENT YES IN Q3a). (Allow the respondent to nam they can. Prompt for further responses)	ANSWE	as
associations that come to your mind? A else? (ASK QUESTION ONLY IF RESPONDENT YES IN Q3a). (Allow the respondent to nam they can. Prompt for further responses) (Salience-awareness & usage-brand specifibrand meaning-brand associations)	ANSWE	as
associations that come to your mind? A else? (ASK QUESTION ONLY IF RESPONDENT YES IN Q3a). (Allow the respondent to nam they can. Prompt for further responses) (Salience-awareness & usage-brand specifibrand meaning-brand associations)	ANSWE	as
associations that come to your mind? A else? (ASK QUESTION ONLY IF RESPONDENT YES IN Q3a). (Allow the respondent to nam they can. Prompt for further responses) (Salience-awareness & usage-brand specifibrand meaning-brand associations)	ANSWE	as
associations that come to your mind? A else? (ask QUESTION ONLY IF RESPONDENT YES IN Q3a). (Allow the respondent to nam they can. Prompt for further responses) (Salience-awareness & usage-brand specifibrand meaning-brand associations)	ANSWE	as
associations that come to your mind? A else? (ASK QUESTION ONLY IF RESPONDENT YES IN Q3a). (Allow the respondent to nam they can. Prompt for further responses) (Salience-awareness & usage-brand specifibrand meaning-brand associations) 2 3 4 5	ANSWE	as
associations that come to your mind? A else? (ask QUESTION ONLY IF RESPONDENT YES IN Q3a). (Allow the respondent to nam they can. Prompt for further responses) (Salience-awareness & usage-brand specifibrand meaning-brand associations)	ANSWE	as

Q5	When I say Brand B, what are the first associations that come to your mind? Anything
	else? K QUESTION ONLY IF RESPONDENT ANSWERS
(All	IN Q3c) ow the respondent to name as many as they can.
	mpt for further responses) mpetitor salience-awareness & usage-brand specific
OR	Competitor imagery-brand meaning-brand
asso 1	ociations)
2	
3	
4	
5	
6	
	an't think of any/ Don't know 'A (Not aware of Brand B)
(AS) YES (Sal	With which company do you associate Brand A? K QUESTION ONLY IF RESPONDENT ANSWERS IN Q3a). ience-awareness-depth-recall-company/brand ociation)
2 Ca	an't think of any/ Don't know 'A (Not aware of Brand A)
(AS. 'DC RES	Do you associate Brand A with? K QUESTION ONLY IF RESPONDENT ANSWERS N'T KNOW' IN Q6, OTHERWISE INDICATE THEIR PONSE BELOW BASED ON THE PREVIOUS ESTION)
	ience-awareness-breadth-recognition-company/bran ociation)
_	Manufacturer A Manufacturer E
	Manufacturer B
	A company other than those already specified N/A (Not aware of BrandA)
Q8	When I say Manufacturer A, what are the first associations that come to your mind? Anything else?
	K QUESTION ONLY IF RESPONDENT ANSWERS S IN Q3b).
	ow the respondent to name as many as they can. mpt for further responses)
(Sal	ience-awareness & usage-company specific
OR	Imagery-brand meaning-company associations)

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4
5
6
7 Can't think of any/ Don't know
8 N/A (Not aware of Manufacturer A)
Q9 When I say Manufacturer B, what are the first associations that come to your mind? Anything
else? (ASK QUESTION ONLY IF RESPONDENT ANSWERS YES IN Q3d).
(Allow the respondent to name as many as they can.
Prompt for further responses) (Salience-awareness & usage-company specific
OR Imagery-brand meaning-company associations)
1
2
3
4
5
6
7 Can't think of any/ Don't know 8 N/A (Not aware of Manufacturer B)
Q10 With what brand do you associate the slogan 'that which can be measured, can be improved'?
(Please tick one) (Salience-awareness-breadth brand element)
ı □ Manufacturer A
2□Brand A
3 ☐ A different GPS tracking brand
4 ☐ A different company not in the satellite tracking
industry 5 □ I am not aware of this slogan
Q11 What does this slogan mean to you about the
brand? (Please explain) (Imagery-brand meaning- associations)
1
Q12 Has the council you work for purchased some type of waste management technology to monitor the collection, movement and disposal of waste? (Salience-usage/Resonance-loyalty)
1 Yes (Please go to question 13 & 14)
2□ No 3□ Don't know
Q13 From which company? (Please specify)
(Salience-usage/Resonance- loyalty)
2 □ N/A
Q14 Can you please tell me a little about your council's experience inpurchasing this system.
(Please explain)
(Salience-usage/Resonance-attachment, loyalty)
2 N/A

(IF THE RESPONDENT IS NOT AWARE OF MANUFACTURER A'S BRAND A AND MANUFACTURER B'S BRAND B i.e answered 'No' to question 3a and 3d GO TO Q26)
(IF THE RESPONDENT IS AWARE OF BRAND A OR BRAND B GO TO SECTION 2 Q15)

OR BRAND B GO TO SECTION 2 Q15)
Section 2: Electronic Tracking Systems
Q15 What is most favourable about the Manufacturer A system, Brand A? (ASK QUESTION ONLY IF RESPONDENT ANSWERS
YES TO EITHER Q3a orb).(Performance, Imagery, Judgments, Feelings, Resonance-Strength, Favourability)
3
4
6
7 Can't think of any/ Don't know 8 N/A (Not aware of Brand A)
Q16 What is most favourable about the Manufacturer B system, Brand B?
(ASK QUESTION ONLY IF RESPONDENT ANSWERS YES TO EITHER Q3c or d).(Competitor Performance,
Imagery, Judgments, Feelings, Resonance-Strength, Favourability)
2
3
5
6
8 N/A (Not aware of Brand B) Q17 What is least favourable about Brand A?
(ASK QUESTION ONLY IF RESPONDENT ANSWERS YES TO EITHER Q3a orb). (Performance, Imagery,
Judgments, Feelings, Resonance-Strength Unfavourability)
3
4
6
7 Can't think of any/ Don't know 8 N/A (Not aware of Brand A)
Q18 What is least favourable about Brand B? (ASK QUESTION ONLY IF RESPONDENT ANSWERS YES TO EITHER Q3c or d).(Competitor Performance,
IES TO ELIHER QSC or a). (Competitor Performance, Imagery, Judgments, Feelings, Resonance-Strength, Unfavourability)
2
1.2

4
5
7 Can't think of any/ Don't know
8 N/A (Not aware of Brand B)
o Total (Total and of Brand B)
Q19 What is unique about Brand A?
(ASK QUESTION ONLY IF RESPONDENT ANSWERS
YES TO EITHER Q3a or b).
(Performance, Imagery, Judgments, Feelings, Resonance-
Uniqueness)
1
2
3
4
5
6
7 Can't think of any/ Don't know
8 N/A (Not aware of Brand A)
, , , , , , , , , , , , , , , , , , ,
Q20 What is unique about Brand B?
(ASK QUESTION ONLY IF RESPONDENT ANSWERS
YES TO EITHER Q3c or d). (Competitor Performance, Imagery, Judgments, Feelings,
Resonance- Uniqueness)
1
2
2
3
4
5
7 Can't think of any/ Don't know
8 N/A (Not aware of Brand B)
Q21 What are your feelings towards the Brand A
brand? Why? (Please explain) (ASK QUESTION ONLY IF RESPONDENT ANSWERS
YES TO Q3a). (Feelings)
1 (Feetings)
Q22 How would you describe your relationship with
the Brand A brand?
(ASK QUESTION ONLY IF RESPONDENT ANSWERS
YES TOO3a).
(Resonance-attitudinal attachment)
1
Q23 What is your overall judgment of Manufacturer
A and their credibility?
(ASK QUESTION ONLY IF RESPONDENT ANSWERS
YES TO Q3b). (Judgment-credibility)
1
Q24 How would you describe your relationship with
Manufacturer A and its representatives?
manaracturer A and its representatives:

(ASK QUESTION ONLY IF RESPONDENT ANSWERS YES TO Q3b). (Resonance-community)	
Q25 What is your overall opinion of the Brand A and/or Brand B brandsand their quality? (Judgments-brand quality)	
Q26 Inconsidering to purchase an electronic tracking system for waste management, what is or what would be important to your council? (Performance, Imagery, Judgments, Feelings, Resonand Strength, Favourability)	ce-
23	
6 7 Can't think of any/ Don't know	
Q27 In considering to purchase an electronic tracking system for waste management, what aspects of the company behind the product would be important? Why? (EXTRA: Company qualities eg mkt share, rep etc.)	
Q28 What aspects of your relationship with the sales team and other company representatives would be important? Why? (EXTRA: Relationship with the sales team)	
Q29 In considering the purchase of an electronic tracking system for waste management, who would be involved in the decision to purchase? (EXTRA: Organisational buying centre)	
Q30 Would the other participants in the decision making be aware of Brand A or Brand B, and if not, would it be your job to educate them? (EXTRA: Organisational buying centre) 1.	
Q31 What are other councils doing at present? Have you had any contact with them? (EXTRA: Monitoring other users and the importance of customer referrals)	

Keller's brand equity model

	A or other electr	onic tracking	ncils who use Brand g systems for waste ey are referring to)
Very Intere Q34 Very Intere Q35 (ASK YYES 7	about Brand A? Somewhat ested Interested about Brand B? Somewhat ested Interested about Brand B? Somewhat ested Interested Intere	Not Very Interested would you be a setter? Eg tt the brand, a about the b LY IF RESP	in learning more 4 5 Don't know Not at all Interested in learning more 4 5 Don't know Not at all Interested e willing to invest r resources to get to Investing time to visiting the web site, rand. ONDENT ANSWERS
	ion 3: Respond		s of the Survey and
	uld now like to as y. How did you fir make any chang investigating br	k for your ho nd this quest ges to this sur and equity o	elp in improving this ionnaire? Would you tryey if you were f electronic tracking ent? (Please explain)
Q37	Do you have an before we concl		ou would like to add
Than further please	k you very much er questions or if e contact you aga I appreciate you	for your par I require fur ain in the fut	ncludes the survey. ticipation. If I have ther advice can I ure?Thank T) Have a nice day.

KNOWN AFTER HANGING	ILS IN SECTION 4 ALREAD G UP FROM RESPONDENT. & 6 AFTER HANGING UP
FROM RESPONDENT.	
Section 4:Contact Detail Complete after hanging up	
Γitle: Mr / Mrs/ Ms / Miss	
Family Name:	
Given Names:	
Job Title:	
Organisation:	
Work Phone: ()	
Section 5: Demographic	
(Complete after hanging up Q1 Number of liquid was region?	te generators in the council's
I	2 ☐ Don't know
Q2 Number of constituent region?	ts/rate payers in the council's
	2 ☐ Don't know
Q3 Region of council?	
	2 ☐ Don't know
Q4 Area of council - per o	capita per hectare?
	2 □ Don't know
Section 6: Additional No	
WRITE IN REACTIONS	

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- 2. Abhishek Mishra, Satyabhushan Dash, Naresh K. Malhotra. 2015. An integrated framework for design perception and brand equity. *AMS Review* 5, 28-44. [CrossRef]
- 3. Helen Reijonen, Saku Hirvonen, Gábor Nagy, Tommi Laukkanen, Mika Gabrielsson. 2015. The impact of entrepreneurial orientation on B2B branding and business growth in emerging markets. *Industrial Marketing Management*. [CrossRef]
- 4. Galina Biedenbach, Maria Bengtsson, Agneta Marell. 2015. Brand equity, satisfaction, and switching costs. *Marketing Intelligence & Planning* 33:2, 164-178. [Abstract] [Full Text] [PDF]
- 5. Jing Zhang, Yanxin Jiang, Rizwan Shabbir, Mingfei Du. 2015. Building industrial brand equity by leveraging firm capabilities and co-creating value with customers. *Industrial Marketing Management*. [CrossRef]
- 6. Taehwee Lee, Gi-Tae Yeo, Vinh V. Thai. 2014. Structural Analysis of Port Brand Equity Using Structural Equation Modeling 1. *The Asian Journal of Shipping and Logistics* 30, 349-372. [CrossRef]
- 7. Abhishek Mishra, Satya Bhushan Dash, Dianne Cyr. 2014. Linking user experience and consumer-based brand equity: the moderating role of consumer expertise and lifestyle. *Journal of Product & Brand Management* 23:4/5, 333-348. [Abstract] [Full Text] [PDF]
- 8. Esther Calderon-Monge, Pilar Huerta-Zavala. 2014. Brand and performance signals in the choice of franchise opportunities. *The Service Industries Journal* 34, 772-787. [CrossRef]
- 9. Mohammad Reza Jalilvand, Arash Shahin, Leila Nasrolahi Vosta. 2014. Examining the relationship between branding and customers' attitudes toward banking services. *International Journal of Islamic and Middle Eastern Finance and Management* 7:2, 214-227. [Abstract] [Full Text] [PDF]
- Vania Vigolo, Fabio Cassia. 2014. SMEs' switching behavior in the natural gas market. The TQM Journal 26:3, 300-307. [Abstract] [Full Text] [PDF]
- 11. Jing Zhang, Yong He. 2014. Key dimensions of brand value co-creation and its impacts upon customer perception and brand performance. *Nankai Business Review International* 5:1, 43-69. [Abstract] [Full Text] [PDF]
- 12. Tatiana Anisimova, Felix Mavondo. 2014. Aligning Company and Dealer Perspectives in Corporate Branding: Implications for Dealer Satisfaction and Commitment. *Journal of Business-to-Business Marketing* 21, 35-56. [CrossRef]
- 13. Nor Aida Abdul Rahman, T.C. Melewar, Amir M. Sharif. 2014. The establishment of industrial branding through dyadic logistics partnership success (LPS): The case of the Malaysian automotive and logistics industry. *Industrial Marketing Management* 43, 67-76. [CrossRef]
- 14. Daniel Battaglia, Cristiano D. Schimith, Marcelo A. Marciano, Sandro A.M. Bittencourt, Letícia Diesel, Miriam Borchardt, Giancarlo M. Pereira. 2014. Creating Value through Services and Relationships: The Perception of Purchasing Companies. *Procedia CIRP* 16, 26-31. [CrossRef]
- 15. Kunal Swani, George Milne, Brian P. Brown. 2013. Spreading the word through likes on Facebook. *Journal of Research in Interactive Marketing* **7**:4, 269-294. [Abstract] [Full Text] [PDF]
- 16. Tore Martin Strandvik, Kristina Heinonen. 2013. Diagnosing service brand strength: customer-dominant brand relationship mapping. *Journal of Service Management* 24:5, 502-519. [Abstract] [Full Text] [PDF]

- 17. Saku Hirvonen, Tommi Laukkanen, Helen Reijonen. 2013. The brand orientation-performance relationship: An examination of moderation effects. *Journal of Brand Management* 20, 623-641. [CrossRef]
- 18. Fabian Eggers, Michele O'Dwyer, Sascha Kraus, Christine Vallaster, Stefan Güldenberg. 2013. The impact of brand authenticity on brand trust and SME growth: A CEO perspective. *Journal of World Business* 48, 340-348. [CrossRef]
- 19. Colleen P Kirk, Ipshita Ray, Berry Wilson. 2013. The impact of brand value on firm valuation: The moderating influence of firm type. *Journal of Brand Management* 20, 488-500. [CrossRef]
- 20. Ho-taek Yi, Alan J. Dubinsky, Chae Un Lim. 2013. Manufacturer Support for a Partially Integrated Channel in South Korea: Power-dependence vs. Marketing Effectiveness Perspective. Canadian Journal of Administrative Sciences / Revue Canadienne des Sciences de l'Administration 30:10.1002/cjas.v30.2, 86-100. [CrossRef]
- 21. Jenny Sandbacka, Satu Nätti, Jaana Tähtinen. 2013. Branding activities of a micro industrial services company. *Journal of Services Marketing* 27:2, 166-177. [Abstract] [Full Text] [PDF]
- 22. Elizabeth Hemphill, Carol T. Kulik. 2013. Recruitment Ad Analysis Offers New Opportunities to Attract GPs to Short-Staffed Practices. *Health Marketing Quarterly* **30**, 144-161. [CrossRef]
- 23. Sadia Jahanzeb, Tasneem Fatima, Muhammad Mohsin Butt. 2013. How service quality influences brand equity. *International Journal of Bank Marketing* 31:2, 126-141. [Abstract] [Full Text] [PDF]
- 24. Wei-Lun Chang, Agus Marwi Jaya Pelawi. 2012. SERVICE IDEALISM: THE SENSE PERCEPTION OF PERSONALITY. *Cybernetics and Systems* 43, 669-686. [CrossRef]
- 25. Stavros P. Kalafatis, Natalia Remizova, Debra Riley, Jaywant Singh. 2012. The differential impact of brand equity on B2B co-branding. *Journal of Business & Industrial Marketing* 27:8, 623-634. [Abstract] [Full Text] [PDF]
- 26. Joona Keränen, Kalle A. Piirainen, Risto T. Salminen. 2012. Systematic review on B2B branding: research issues and avenues for future research. *Journal of Product & Brand Management* 21:6, 404-417. [Abstract] [Full Text] [PDF]
- 27. Cleopatra Veloutsou, Colin S. Taylor. 2012. The role of the brand as a person in business to business brands. *Industrial Marketing Management* 41, 898-907. [CrossRef]
- 28. Neil Brooks, Lyndon Simkin. 2012. Judging marketing mix effectiveness. *Marketing Intelligence & Planning* 30:5, 494-514. [Abstract] [Full Text] [PDF]
- 29. Galina Biedenbach. 2012. Brand equity in the business-to-business context: Examining the structural composition. *Journal of Brand Management* 19, 688-701. [CrossRef]
- 30. Mark S. Glynn. 2012. Primer in B2B brand-building strategies with a reader practicum. *Journal of Business Research* **65**, 666-675. [CrossRef]
- 31. Sheena Leek, George Christodoulides. 2012. A framework of brand value in B2B markets: The contributing role of functional and emotional components. *Industrial Marketing Management* 41, 106-114. [CrossRef]
- 32. Christine Vallaster, Adam Lindgreen. 2011. Corporate brand strategy formation: Brand actors and the situational context for a business-to-business brand. *Industrial Marketing Management* 40, 1133-1143. [CrossRef]
- 33. Uta Herbst, Michael A. Merz. 2011. The industrial brand personality scale: Building strong business-to-business brands. *Industrial Marketing Management* 40, 1072-1081. [CrossRef]

- 34. Minna Mäläskä, Saila Saraniemi, Jaana Tähtinen. 2011. Network actors' participation in B2B SME branding. *Industrial Marketing Management* 40, 1144-1152. [CrossRef]
- 35. Darren Coleman, Leslie de Chernatony, George Christodoulides. 2011. B2B service brand identity: Scale development and validation. *Industrial Marketing Management* 40, 1063-1071. [CrossRef]
- 36. Christina Öberg, Christina Grundström, Petter Jönsson. 2011. Acquisitions and network identity change. European Journal of Marketing 45:9/10, 1470-1500. [Abstract] [Full Text] [PDF]
- 37. Munyaradzi W. Nyadzayo, Margaret Jekanyika Matanda, Michael T. Ewing. 2011. Brand relationships and brand equity in franchising. *Industrial Marketing Management*. [CrossRef]
- 38. Sheena Leek, George Christodoulides. 2011. A literature review and future agenda for B2B branding: Challenges of branding in a B2B context. *Industrial Marketing Management* 40, 830-837. [CrossRef]
- 39. Ji-Hern Kim, Yong J. Hyun. 2011. A model to investigate the influence of marketing-mix efforts and corporate image on brand equity in the IT software sector. *Industrial Marketing Management* **40**, 424-438. [CrossRef]
- 40. Mari Juntunen, Jouni Juntunen, Jari Juga. 2011. Corporate brand equity and loyalty in B2B markets: A study among logistics service purchasers. *Journal of Brand Management* 18, 300-311. [CrossRef]
- 41. Niklas Persson. 2010. An exploratory investigation of the elements of B2B brand image and its relationship to price premium. *Industrial Marketing Management* **39**, 1269-1277. [CrossRef]
- 42. Mary C. Lambkin, Laurent Muzellec. 2010. Leveraging brand equity in business-to-business mergers and acquisitions. *Industrial Marketing Management* **39**, 1234-1239. [CrossRef]
- 43. Judith Lynne Zaichkowsky, Myles Parlee, Jeanette Hill. 2010. Managing industrial brand equity: Developing tangible benefits for intangible assets. *Industrial Marketing Management* 39, 776-783. [CrossRef]
- 44. Galina Biedenbach, Agneta Marell. 2010. The impact of customer experience on brand equity in a business-to-business services setting. *Journal of Brand Management* 17, 446-458. [CrossRef]
- 45. Donna F. Davis, Susan L. Golicic, Adam Marquardt. 2009. Measuring brand equity for logistics services. The International Journal of Logistics Management 20:2, 201-212. [Abstract] [Full Text] [PDF]
- 46. ###, ###. 2009. A Study on the Brand Productivity of B2B Service Focused on the Structuring Process of Brand Equity -. *Productivity Review* 23, 71-99. [CrossRef]
- 47. Prashant Mishra, Soumya SarkarCustomer-Based Corporate Brand Equity (CBCBE) In Business-to-Business Firms: 73-90. [CrossRef]
- 48. Prashant Mishra, Soumya SarkarCustomer-Based Corporate Brand Equity (CBCBE) in Business-to-Business Firms: 1729-1746. [CrossRef]