The behavioural response of the professional buyer on social cues from the vendor and how to measure it

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Abstract

Purpose – Vendors’ social cues – physical or behavioural hints – have an impact on the professional buyer. However, little is known about that impact. The purpose of this paper is to place knowledge about the impact of social cues that other disciplines acquired in the context of B2B marketing in order to contribute constructively to the research agenda.

Approach – By integrating findings on the processing of social cues and the behavioural response from the disciplines of neuroscience, biology and psychology (specifically the BIS/BAS theory), this paper aims to provide an interdisciplinary perspective on the automatic evaluation of vendors by professional buyers.

Findings – Social cues are likely to be of substantial value in the (first) encounter between buyer and seller. Positively evaluated social cues create an approach-motivated behavioural intention, whereas negatively evaluated ones create avoidance. This process is probably predominantly mediated by trust and moderated by personality and contextual factors.

Research and practical implications – This paper stimulates research about the impact of social cues in a B2B context. While such knowledge would add practical value, this paper also explores possibilities for managers to use neuroscientific techniques to assess and train sales agents.

Originality/value – The impact of social cues is hardly covered in the B2B marketing literature, but they have an important impact on B2B decision-making. The conceptual framework combines the BIS/BAS theory (approach/avoidance) with the SOR model (stimulus – organism – response), which is unique to the B2B marketing field.

Keywords: Social cues, buyer-seller relationship, trust, approach and avoidance, BIS/BAS theory, neuroscience

Article classification: Conceptual paper
Introduction

It appears to be difficult to grasp the difference between a successful and an unsuccessful vendor, especially in a B2B context (Szymanski and Churchill Jr 1990, Franke and Park 2006). As there is more interpersonal interaction between sellers and buyers in a B2B context than in a B2C one and there is mostly more at stake (Lynch and Chernatony 2004), it is relevant to understand the key ingredients of successful vendors, being the “face of the firm” (Javalgi et al. 2014).

With the paradigm shift from marketing instruments targeting transactions to relationship marketing (Grönroos 1994, LaPlaca and da Silva 2016), the literature on the success of B2B salespeople has focused on the selling strategy and behaviour of the vendor. Two literature streams have dominated the personal selling literature: ‘customer-oriented selling strategy’ (Saxe and Weitz 1982) and ‘adaptive selling behaviour’ (Weitz et al. 1986). As an effect of the shift from transactional to relational, marketing research focused on the effects of individual characteristics of the salesperson, such as emotional intelligence (Kadic-Maglajlic et al. 2016), communication skills (Boorom et al. 1998) and intrinsic motivation (Spiro and Weitz 1990).

However, the positive relationship between a customer-oriented selling strategy and/or adaptive selling behaviour on one side and sales performance on the other still has loose ends (Singh and Koshy 2011). It might be that salespeople believe there is a positive relationship between their customer-oriented selling strategy/adaptive selling behaviour and their sales performance, where this is not, or only partly, the case (Franke and Park 2006). Buyers evaluate more than just the vendor’s deliberate selling approach, and this occurs partly automatically and unconsciously. Social cues – verbal or nonverbal hints that can be evaluated positively or negatively – appear to be important guides in this automatic evaluation, although it is hard to make the effect concrete (Leigh and Summers 2002). Limbu et al. (2016) recently conducted research on the impact of empathy and nonverbal immediacy on sales performance, and highlight that social cues increase nonverbal immediacy. Based on a sample of 422 pharmaceutical sales representatives, they find that adaptive
selling behaviour mediates the relationship between empathy and relationship performance. Although adaptive selling behaviour as a mediating variable was not significant with respect to the impact of nonverbal immediacy, the results “point in the right direction” (Limbu et al. 2016, p. 663).

Scholars tend to focus more on developing models to explain behavioural patterns, than on investigating specific stimuli ‘that function as inputs for psychological mechanisms involved in the decision-making processes giving rise to such patterns’ (Haley and Fessler 2005, p. 247). Nevertheless, it is remarkable how the topic of social cues has been under-represented in the B2B marketing literature. SCOPUS identifies no publication on social cues, or on a related topic like body language, within the context of the (first) encounter between the professional buyer and seller within any of the leading three journals in B2B-marketing (i.e. IMM, JBIM and JBBM). The broader topic of impression management has deserved research attention, but it is arduous to get information with respect to the unconscious effects on the receiver. If we broaden the scope to the complete field of marketing and sales, the same problem arises. Although we are all aware of the impact of social cues on first impressions, little research attention has been paid to investigate this impact in a selling context (Naylor 2007, Leigh and Summers 2002, Bashir and Rule 2014, Bergeron et al. 2008).

Industrial buying decisions are mostly complex and characterised by group decision-making, which makes it likely that B2B buying is by nature more rational than B2C buying (Lynch and Chernatony 2004). Over the past years, the role of emotion, subconscious processes and implicit heuristics slowly found its way into the rational world of B2B marketing (Andersen and Kumar 2006, Leek and Christodoulides 2012, Hinterhuber and Liozu 2015, Hinterhuber 2015). It is likely that industrial buyers are subject to subconscious processes that influence their decision-making process that are ignored by the traditional rational point of view (Lynch and Chernatony 2007, Makkonen et al. 2012). There is every reason to presume that social cues influence the interaction between a professional buyer and seller, just like in any other form of social interaction. Social cues can be processed even
when the person is unaware of the stimulus (Gobbini et al. 2013). Other research on the impact of social cues within a professional context, i.e. judgments by clinical psychologists about clients’ psychological status, confirmed that cues effect the judgments made by professionals (Brewer et al. 2011).

Over the last decade, psychologists, neuroscientists and biologists have intensively investigated the impact of social cues. In this paper, the work of those scholars is integrated with the B2B marketing perspective and placed in the context of perceived relationship value. The perceived relationship value influences the behavioural intention of the professional buyer. This paper investigates how this process of impact theoretically works and how the buyers’ behavioural response on social cues can best be measured. The paper is structured analogous to the process of influence: social cues are a source of information, this information colours the buyers’ perception, which in turn changes his behavioural intentions. Social cues can be physical (e.g. age, gender, clothes, attractiveness) or behavioural (e.g. smiling, gestures) (Neu 2015). Since within the neuroscientific, psychological, biological, economical and marketing literature the behavioural cues ‘smiling’, ‘eye gaze’ and ‘gestures’, as well as the physical cue ‘attractiveness’, are mostly addressed, this paper concentrates on those cues.

The function of social cues

Why are professional buyers likely to be sensitive to social cues? The process of buying implies having some kind of relationship with another party. That relationship is in the first place functional by nature, but, especially when personal selling is involved, also has social elements. ‘To successfully establish and maintain social relationships, individuals need to be sensitive to the thoughts and feelings of others’ (Pickett et al. 2004, p. 1095). Interpersonal sensitivity is reflected in the ability to detect and decode social cues. Social cues direct attention, entail valuable information that guides social interaction and are crucial for the first-impression effect.
Social cues direct attention

The social world is filled with stimuli. Since it is impossible to pay attention to every stimulus, we use social cues to direct our attention to the important ones. In a study with 55 nine-month-olds, social cues directed the attention of the babies more effectively than non-social ones (Barry et al. 2015).

There are good reasons to assume that neurons in specific brain areas are dedicated to processing relevant social cues (Gobbini et al. 2013, Greene and Zaidel 2011), although some scholars promote the idea of ‘whole brain’ processing of social cues through different mechanisms (Adams Jr and Kveraga 2015). The amygdala, a brain region that is associated with processing emotions, directs the eyes towards salient stimuli, which are often the eyes of others (Gosselin et al. 2011). The onset of direct eye gaze attracts attention, since the receiver of the gaze is ‘told’ that he or she is being addressed, and that the subsequent action or information will be meaningful (Böckler et al. 2014). This ‘attentional cueing effect’ of eye gaze is obligatory: our attention shifts in the direction of the gaze, even if we are told that the direction of gaze has no predictive value (Hood et al. 2003, Friesen and Kingstone 1998). Therefore the attentional cueing effect of eye gaze is reflexive and thus automatic: we simply cannot ignore the eye gaze of others.

Besides eye gaze also gestures, the unconsciously produced movements of the hands during speech, direct attention. Gestures can help the receiver of the communication to stay focussed and to pay attention to crucial elements in the message from the perspective of the sender, to memorize the content better, and to gain a deeper understanding of the content of the communication (Kang et al. 2013).

Social cues as a source of information
People are focussed on social cues because of a need for information. In other words, we use social
cues as hints because social interaction is complex, with much at stake. As the other might do harm
(cheating or not honouring commitments), people constantly try to figure out others’ intentions. This
process is also called mentalizing, and social cues appear to activate brain regions associated with
mentalizing (Straube et al. 2010). Since the verbal message of the other does not always reveal
somebody’s intentions, people rely on social cues which they can recognize rapidly since they are
innately prepared to do so (Gobbini et al. 2013, Adams Jr and Kveraga 2015). In some cases, content
might even be largely irrelevant, and social cues predominate (McConnell et al. 2008).

Gestures, for example, are a natural and effective form of communication (Jacobs and Garnham
2007). Gestures that accompany speech are assumed to give the receiver information about the
feelings, emotions and attitudes of the speaker (Goldin-Meadow 1999). Gestures can even be a
‘vehicle for the expression of information that is unlikely to be expressed in the accompanying speech’
(Cook and Tanenhaus 2009, p. 102). In other words, gestures entail a communication benefit The size
of this benefit is defined by the type of gesture (Kang et al. 2013).

Social cues and first impressions

When does the professional buyer ‘rely’ on social cues the most? Social cues are specifically
impactful in the context of first impressions. The relevance of making a ‘good’ first impression within
the context of B2B-buying has been acknowledged for decades (Young et al. 1994, Swan et al. 1985,
Mandják et al. 2016, Clark and Salaman 1998, Bergeron et al. 2008). Social cues are used as a source
of information to assess the potential seller and to make inferences about the intentions of the
selling party (mentalizing). Dwyer et al. (1987) describe different stages of business relationship
development, and it is likely that social cues have the biggest impact in the second stage of
‘exploration’. Social cues will have specific influence in the sub-process of ‘attraction’. This is the
phase where potential partners explore the attractiveness of the other, with social cues as additional
information sources (Levinger 1980, Wilson 1995). The buyer wants information about the likelihood of a profitable partnership as soon as possible: ‘natural selection can be expected to have shaped human psychology to be exquisitely sensitive to cues that are (or were, under ancestral conditions) informative with respect to the likely profitability of cooperation in a given situation’ (Haley and Fessler 2005, p. 248-249).

In a commercial context, it was shown that the inferences people make based on their social cues can be surprisingly accurate with respect to the service provider’s performance, and of strong influence on the first impression created by the receiver, even before actual interaction between buyer and seller (Naylor 2007). This leads to the following proposition:

Proposition 1: Social cues have the biggest impact during the first seconds of the first interpersonal encounter between seller and buyer.

Social cues and perceived relationship value

Social cues direct attention and are used as a source of information, which is specifically of impact when making first impressions. In this section the elements of that impact are explored. We use social cues as an additional source of information to figure out the others’ intentions. The information provided by social cues colours the way the buyer perceives the seller, the product or service to be sold and thus the perceived value for the buyer.

With the paradigm shift from a transactional to a relational approach, the definition of value changed from value from a company’s perspective to value from a customers’ perspective (Tynan et al. 2014). Subsequently, ‘value-in-use’ altered into ‘value-in-context’ in which value creation is perceived in the context of a larger value-configuration space where multiple networks meet (Vargo 2008). Within the field of industrial marketing most scholars nowadays concentrate on ‘relationship value’, in which ‘the nature of the interaction between supplier and customer is critical in the creation of joint value’
(Lindgreen et al. 2012, p. 209). The term value always implies some kind of cost-benefit analysis (Ulaga 2003, Zeithaml 1988). However, within the context of a relationship these costs and benefits are in part intangible and invisible. This implies that the perception of costs and benefits within the context of a relationship is crucial (Lindgreen et al. 2012). These perceptions are influenced by the evaluation of social cues.

**Attitude change**

The way we perceive social cues influences our attitudes towards the other in many ways. The social cue that, with respect to attitude change, has attracted the most attention by marketing and sales scholars is attractiveness (for example Joseph 1982, Till and Busler 2000, Ahearne et al. 1999, McColl and Truong 2013). In general those studies found positive effects of attractiveness on the attitudes of buyers. This is congruent with the reward-perspective of attractiveness from the neuroscientific literature. An attractive face stimulates a more intense brain response than an unattractive one (Morgan and Kisley 2014). The brain region that responds strongly to facial attractiveness is the medial orbitofrontal cortex, of which activation is associated with a sense of reward, especially when the beautiful face is garnished with a smile (O’Doherty et al. 2003). Specifically smiling creates leniency and a milder attitude by the receiver of the smile (LaFrance and Hecht 1995).

Beauty is considered as an indicator of fitness, and therefore influences the inferences others make about the person. When confronted with an attractive trustee in the game, subjects invest more money (Wilson and Eckel 2006). But there is also a ‘beauty penalty’ at stake: when beautiful people do not live up to the high expectations, they are punished. So, beauty is not always best (Bower and Landreth 2001). An explanation for the contradicting findings on the relationship between attractiveness and buyers’ attitudes can be found in the match-up hypothesis, which states that the image of the spokesperson should match up with the image of the product in order to be of positive impact (Kamins 1990). The match-up hypothesis suggests that “what beautiful is good” should be
transformed into “what is expected is good” (Koernig and Page 2002), indicating that adaptive selling strategies should not only include the adaptive selling behaviour of the salesperson, but should also include sending the right salesperson to the right buyer.

The way we perceive social cues also influences the way we perceive content. A negative message will be perceived as less so when it is accompanied by a smile (Krumhuber and Manstead 2009). Research on 1326 participants playing an ultimatum game showed that both good and bad offers proposed by someone who smiled were accepted more than offers from people with a neutral face and way more than offers from people with angry faces (Mussel et al. 2013). Therefore the perceived benefits of cooperation are increased by a smile, while the perceived costs are reduced.

When attitudes are alleviated, this might lead to trust and cooperation. Trust has a direct positive effect on buyers’ perceived value (Chai et al. 2015). Specifically attractiveness and smiling are known for their positive effects on trust. In the context of a first encounter, smiling increases trust among strangers and is seen as an intention to cooperate, but only when the smile is genuine (Scharlemann et al. 2001). In a trust game, it was shown that attractive people are trusted more and elicit positive expectations (Wilson and Eckel 2006). Also eye gaze can stimulate cooperation. It can create a feeling of being watched and therefore influence peoples’ behaviour. For example, when a picture of eyes was placed next to a money box in a university coffee room where consumers had to pay for the coffee out of their own honesty, the contributions by university employees tripled (Bateson et al. 2006).

Variations in the impact of social cues

According to the elaboration likelihood model (ELM), the impact of social cues on the attitude and judgment of buyers, and therefore on the performance of sellers, might differ based on the buyers’ level of involvement (Petty and Cacioppo 1981). The ELM is a dual-processing model that suggests a central and peripheral route to persuasion. With the central route, individuals take the cognitive
effort to evaluate a message. They do so when they are highly involved with the topic. With the peripheral route, individuals evaluate messages with limited cognitive effort, for example processing social cues. As ELM has a cognitive perspective on attitude change, the attitude change created by the peripheral route is suggested to be less durable and less predictive of behaviour. This last point has been heavily debated in literature (Morris et al. 2005, Bitner and Obermiller 1985, Miniard et al. 1992).

ELM suggests that the impact of social cues is bigger for less involved buyers. Yang et al. (2006) find that people who are less involved with the product develop trust in the seller through the peripheral route in which peripheral cues are more important. In general, buyers are information-searching-orientated or environment-orientated, depending on personality and context factors (Chen and Lee 2008). Examples of context factors are available resources and time, the level of involvement and motivation of the buyer, and characteristics of the product being sold. Social cues probably have a bigger impact with intangible products, as there are no physical aspects buyers can use as cues to estimate the relationship value (Koernig and Page 2002, Bitner 1992). Their impact is probably also bigger for products and services that buyers find difficult to evaluate (Naylor 2007). The way buyers evaluate cues also depends on their emotional state, which may be attenuated or enhanced by personality traits (Donovan et al. 1994). As an example of a personality factor of influence, Sher and Lee (2009) found that sceptical consumers do not take the central route in attitude change and may be impossible to persuade via argument quality. This leads to the second proposition:

Proposition 2: The impact of social cues on attitudes and decisions of the buyer is moderated by personality and context factors.

Despite the moderating effect of personality and context factors, it is unlikely that the impact of social cues is completely absent. Even the most goal-orientated rational buyers will let their estimations of the relationship value be influenced by social cues (Haley and Fessler 2005). The impact of social cues in the B2B buying context will most likely shrink as time goes by. The business
development literature has recognised different business development stages that occur as a function of time (Mandják et al. 2016, Dwyer et al. 1987, Medlin 2004, Ford 1980). However, the likelihood of diminishing effects of social cues is difficult to concretise, as business development is not a linear process with clear beginnings and ends (Turnbull et al. 1996, Medlin 2003, Ford and Hakansson 2005).

**Behavioural response of the buyer: the BIS/BAS theory**

Table 1 summarizes the effects of the different dominant cues as addressed in the previous sections. However, measuring the actual behavioural response to social cues remains difficult. The limited research on social cues in the marketing and sales domain mostly uses an experimental design in combination with verbal reports. For example, Leigh and Summers (2002) showed manipulated videotapes of a salesperson to 90 professional buyers, who were asked to assess the salesperson’s favourability and personality traits on a Likert scale. Such verbal reports do not give an accurate view of a tendency to buy and therefore have limited predictive power. To overcome this, the BIS/BAS theory is introduced as a valuable perspective for B2B marketers wanting to measure the impact of social cues on buying potential.

<table>
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<th>Social cue</th>
<th>Effects</th>
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<tr>
<td><strong>Behavioural cues</strong></td>
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<tr>
<td>Smiling</td>
<td>- Creates a milder attitude (LaFrance and Hecht 1995)</td>
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<tr>
<td></td>
<td>- Negative messages are perceived as less negative (Krumhuber and Manstead 2009)</td>
</tr>
<tr>
<td></td>
<td>- Enforces trust and cooperation (Mussel et al. 2013, Scharlemann et al. 2001)</td>
</tr>
<tr>
<td></td>
<td>- Enforces cooperation (Bateson et al. 2006)</td>
</tr>
<tr>
<td>Gestures</td>
<td>- Direct attention (Kang et al. 2013)</td>
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<td></td>
<td>- Can express information that is unlikely to be expressed in the accompanying speech (Cook and Tanenhaus 2009)</td>
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<td><strong>Physical cue</strong></td>
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<tr>
<td>Attractiveness</td>
<td>- Creates a positive attitude and a feeling of reward (O'Doherty et al. 2003, Joseph 1982, McColl and Truong 2013)</td>
</tr>
<tr>
<td></td>
<td>- Enforces trust and cooperation (Wilson and Eckel 2006)</td>
</tr>
<tr>
<td></td>
<td>- Beauty penalty when expectations are not met (Bower and Landreth 2001, Koernig and Page 2002)</td>
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*Table 1  Effects of the behavioural cues smiling, eye gaze and gestures and the physical cue attractiveness.*
Emotional faces communicate both the emotional state and the behavioural intentions of an individual. They also activate behavioural tendencies in the perceiver, namely approach or avoidance’ (Seidel et al. 2010, p. 500). The value of social cues does not lie in the cues themselves, but in the behavioural response they elicit because of the inferences people make based on these social cues (Neu 2015). In other words, buyers make inferences on relationship benefits versus costs, which leads to approach- or avoidance-motivated behaviour.

Approach and avoidance, the two opposites in human behaviour and motivation, are specifically brought forward by Gray (1982), although the distinction came from the Greeks (Elliot 2006). The central idea that behaviour is directed by two opposing motivational systems is broadly accepted (Puca et al. 2006). Gray (1982) introduced the BIS/BAS theory in which the behavioural inhibition system (BIS) and the behavioural activation system (BAS) control human behaviour. The BIS is related to the response to threats, is sensitive for signals of punishment or novelty and is associated with avoidance or withdrawal. The BAS is related to the response to rewarding incentives and thus to a motivation of approach (Smits and Boeck 2006, Sutton and Davidson 1997). The BIS/BAS theory, also called the reinforcement sensitivity theory, is one of the most accepted and dominant biology-based theories in psychology (De Pascalis et al. 2013).

Based on physical and behavioural social cues, people make inferences about someone’s personality, trustworthiness and goals, of which trustworthiness is the central variable (Neu 2015). Trust can be seen as the main mediating variable between stimulus and (approach or avoidance) response, especially in a B2B context, and it is not surprising that the topic of trust has dominated the current B2B marketing literature (Young et al. 2015, Scharlemann et al. 2001). Trust is mostly defined as ‘the perceived credibility and benevolence of a target of trust’ (Doney and Cannon 1997, p. 36) and has been found to have a greater impact on satisfaction and long-term orientation in business channel relationships than the direct effect of economic outcomes (Geyskens et al. 1998). In general, the chain relationship between trust, buyers’ perceived value and behavioural intention has been
recognized (Chai et al. 2015). Within the neuroscientific, biological and psychological literature trust has been often linked to approach motivated behaviour, and the absence of trust with avoidance motivated behaviour (Todorov 2008, Bzdok et al. 2011, Chen and Bargh 1999, Kosfeld et al. 2005). To see trust in the light of the behaviour it provokes (approach versus avoidance) instead of the elements it consists of has a greater commercial value for practitioners, as it shows a predictive mindset, compared to a descriptive one (LaPlaca and da Silva 2016). The conceptual framework (Figure 1) reflects this line of reasoning and can be summarised with the following proposition:

**Proposition 3:** Social cues influence the approach- or avoidance-motivated behaviour of professional buyers, with trust as the key mediating variable.

Here we see the relationship value of social cues. Positively evaluated social cues create a sense of trust which increases perceived benefits of the relationship and decreases perceived costs, resulting in approach-motivated behaviour. Trust is a form of increased vulnerability. Experimental research showed that in a trust game we place more trust in others that look like ourselves (DeBruine 2002). The same applies to business partner selection: we tend to select familiar partners (Mandják et al. 2015). Especially in the first stage of relationship development, the uncertainty and accompanied perceived risk play a huge role (Rousseau et al. 1998).

The level of uncertainty is highest for markets where the product is intangible and where its price does not necessarily reflect its end value, such as consultancy services (Glückler and Armbrüster 2003). This comes down to classical information asymmetry: “Ascertaining the quality of a consultancy’s service at the pre-purchase stage is a major problem for clients, since whereas the supplier may know the level of service quality, the buyer often does not” (Clark and Salaman 1998, p. 20). Price is not a good quality predictor in the consultancy market, which makes social cues a more relevant information source. Characteristics of the product being sold (tangible versus intangible) and the associated level of uncertainty might be the most important contextual factors (Figure 1).
Proposition 4: The impact of social cues as a source of information in the partner selection process is bigger for markets where intangible products are sold (service industry) and where the level of uncertainty is highest.

Fig. 1 Conceptual framework of the behavioural response to social cues. The SOR-framework (stimulus – organism – response) for marketing research (Wang and Minor 2008) is integrated with the framework on social cues – inferences – behaviour (Neu 2015) and the BIS/BAS theory related to approach and avoidance (Gray 1982). Moderating variables are personality factors and context factors which can be explained through the elaboration likelihood model (Petty and Cacioppo 1981). The dominance of trust as the key mediating variable is in line with the B2B marketing perspective on relationship emergence and development (Geyskens et al. 1998, Mandják et al. 2015, Young et al. 2015). The relationship between trust, buyers’ value and behavioural intention is analogous to Chai et al. (2015).
Measuring the impact of social cues on B2B decision-making

The inferences people make based on social cues are reflected in explicit attitudes—of which people are consciously aware and which can be expressed in verbal reports—and specifically in implicit attitudes—of which people are unaware and which are therefore more difficult to observe (McConnell et al. 2008). For example, negative subliminal primes can result in negative implicit attitudes but nonnegative explicit attitudes (Rydell et al. 2006). Because of the unconscious nature of implicit attitudes, ‘irregular’ research methods may be required. Since people are not consciously aware of the impact of social cues on their evaluation of the other, verbal self-reports during different phases of the first encounter(s) will not be sufficient. To test the impact of social cues during different moments of the first encounter(s) means we have to ‘read the minds’ of potential buyers at different times. This creates a demand for longitudinal studies and/or sequential experimental methods to test the development of attitudes over time and to bring more dynamics into the buying decision models (Bush et al. 2015, Denant-Boèmont and Petiot 2003, LaPlaca and da Silva 2016). Research techniques such as video observation and neuroscientific techniques will make it possible to follow the external expressions and internal neural state of the buyer during the encounter. A nice example forms the research by Boshoff (2012) who used neuroscientific research techniques to assess the impact of gender and ethnicity during different stages of a service encounter.

The SOR-framework
In the conceptual framework (Figure 1) the stimulus – organism – response (SOR) model is included with a reason. As social cues affect the human mind on both a conscious and unconscious level, measuring the effects of social cues on approach- or avoidance-motivated behaviour is necessary on both levels. Since verbal measurement techniques cannot really cover the unconscious level, neuroscientific techniques are suggested. SOR-models operate on the presumption that every stimulus creates a reaction within the human being (Organism), and that this reaction has psychological antecedents and physiological consequences (Wang and Minor 2008). These psychological antecedents can be both cognitive (for example attention and memory) and affective (for example pleasure and arousal).

SOR models demand an experimental research design, which is challenging. Although ‘experimental control of environmental factors provides a better, more controlled, test of atmospheric factors and the moderating role of subsequent emotional states on shopping behavior’ (Yalch and Spangenberg 2000, p. 139), experimental research designs are practically difficult to use within a B2B context. LaPlaca and da Silva (2016) call on the B2B marketing community to give better explanations for B2B phenomena and to evolve from a descriptive to a predictive science by using other methods and techniques than the standard Likert-scales and case studies. The conceptual framework, experimental research design and suggested use of neuroscientific research techniques contribute to realising this. There are positive indications that neuroscientific research techniques in a commercial setting will have a higher predictive power than verbal techniques (Berns and Moore 2012, Ohme et al. 2010, Venkatraman et al. 2015).

Using neuroscientific techniques to measure buyers’ approach/avoidance

To measure the impact of social cues on approach- versus avoidance-motivated behaviour (Proposition 3), the Davidson model is suggested. This model states that approach-motivated behaviour corresponds with greater left over right hemispheric activity in the prefrontal cortex and
avoidance-motivated behaviour with greater right over left hemispheric activity, as can be measured with EEG (Davidson 2003). Greater left over right prefrontal activity corresponds with higher BAS scores and greater right over left prefrontal activity with higher BIS scores (Sutton and Davidson 1997). In the marketing field, research on advertisements showed that frontal EEG asymmetry is a good diagnostic tool to measure approach- or avoidance-related behaviour (Ohme et al. 2010).

It is important to note that the prefrontal cortex does not serve as a mediator, but rather moderates activity in other parts of the brain, such as the amygdala, that control the primary emotional response to stimuli (Davidson 2004). Another important aspect is that the direction of motivation should not be mixed with the valence of the motivation (positive or negative) (De Pascalis et al. 2013). For example, anger and cognitive dissonance also evoke approach-related behaviour (as measured by a greater left-sided frontal EEG asymmetry), but are related to negative emotions (Harmon-Jones 2004). The relationship between anger and approach-related behaviour can be explained by aggression or the tendency to attack (Adams Jr et al. 2006). Because this is unlikely in a B2B context, it might be the case that for the buyer-seller dyad the direction and valence of the motivation are more in line.

Managerial and scientific implications

The themes of interaction and relationships have dominated the B2B marketing literature (Turnbull et al. 1996, Young et al. 2015). First impression effects in a marketing context, like the effects of social cues, are important to understand, because they influence the first stages of B2B relationship-building: selecting and evaluating potential suppliers (Naylor 2007). The plea of this paper is to focus research attention on social cues and the behavioural responses they provoke.

The adaptive selling framework is of great importance to personal selling theory (Boorom et al. 1998). Within the adaptive selling framework the seller adapts himself to the buyer, which
underwrites the idea that there does not exist one unique selling strategy that in any case leads to the ultimate sales performance (Weitz et al. 1986). One of the possible adaptations a seller consciously or unconsciously can make is by the social cues he is detecting and emanating (Franke and Park 2006, Locander et al. 2014). Practitioners can learn to use social cues effectively. Making sales agents aware of the effects of their social cues should be a key element of effective sales training. The evaluation of the social cues of professionals can also be part of an assessment procedure when hiring new sales agents. In the context of leadership, using neuroscientific techniques during a job application process has been suggested (Waldman et al. 2011).

Scientifically, the perspective of this paper adds value to different literature streams in the field of B2B marketing: adaptive selling behaviour (ABS), information processing, impression management and B2B relationship emergence and development. This paper has several theoretical and methodological contributions and implications. It introduces BIS/BAS theory into the B2B marketing literature, which contributes to the transformation towards predictive science (LaPlaca and da Silva 2016, Murphy and Papadopoulos 2007). This paper supports focusing less on developing new exploratory models and more on the effects of specific stimuli that underlie the behavioural patterns those models try to explain (Hinterhuber and Liozu 2015). Relevant research questions might be: what is the relative value of the different social cues? Does the same social cue, for example the seller’s physical attractiveness, provoke different reactions across industries and people, like the match-up hypothesis describes? Do goal-orientated buyers respond differently to social cues than environment- or relationship-orientated buyers? How durable is the effect of social cues on the buyer’s attitude formation? Et cetera.

To the knowledge of the author, SOR models have not been used in B2B marketing research. Although it has been acknowledged that buyers’ emotional state influences their response to suppliers, it has been difficult to make those effects concrete (Sheth 1973, Andersen and Kumar 2006). There is a need to investigate these effects not only based on explicit attitudes, but also on...
implicit ones (McConnell et al. 2008). This paper’s suggestion to use neuroscientific research
techniques alongside existing techniques helps to measure the effects of these implicit attitudes.
Recently, other scholars also brought neuroscientific techniques to the attention of B2B scholars
(Hinterhuber 2015).

The value of social cues in the B2B decision-making process is hypothesized to be highest when a) the
product is intangible and b) when there is a high degree of uncertainty from the buyer’s perspective.
In other words, investigating the value of social cues is most relevant for the B2B service industry.
According to LaPlaca and da Silva (2016), a lot of work is needed in B2B services research and
investigating the impact of social cues in the buyer’s decision-making process is an additional topic
on the research agenda. Within the context of customer loyalty in B2B service markets it has already
been indicated that emotional motivations are stronger than rational motivations, but how this
should exactly be interpreted is still vague (Čater and Čater 2009). Finally, there has been a lot of
research on factors that explain the continuation of B2B relationships, but only limited attention to
the emergence of new relationships (Mandják et al. 2015). Since the value of social cues as an
information source and as an alleviating factor is probably highest in the exploration phase of
potential business relationships, the theme of this paper is of specific relevance to the emergence of
B2B relationships literature stream.

Discussion and conclusion

Buyers probably differ in their vulnerability regarding social cues, just as people differ in the strength
of their BIS or BAS and therefore in their response to incentives versus threats (Pickett et al. 2004,
EEG asymmetry have trait-like properties, creating individual different emotional responses
(Davidson and Fox 1989).
The term ‘irrationality’ has been explicitly avoided in this paper. Although the effects of social cues are often described as automatic and emotional, it does not make them irrational. The fact that behavioural differences between buyers cannot fully be explained by functional appeals, does not mean scholars should start a ‘rationality versus irrationality’ debate (Nissan 2009). ‘Humans simultaneously use all their brain faculties, developed in different eras of our evolution and seemingly learned to “rationally” adapt their processing mode depending on the situation at hand. Biases, social exchange heuristics and perceptual processing are pushed to the background in deciding to cooperate when ecological information signals profitable opportunities. When the latter is absent, however, they by default take on a more prominent role in decision making and fill in the gap resulting from the absence of strong, guiding incentives’ (Boone et al. 2008, p. 187). So it is ‘rational’ to let yourself be guided by social cues whenever other information is not available, as it may prevent the cost of the wrong decision. This paper tries to avoid the ‘rationality versus irrationality’ debate and aims to place the analysis of stimuli that create differences in behavioural patterns on the research agenda.

Perceived social cues in an online setting will probably have an increased impact in the future (Wang et al. 2016). It is suggested that emotional appeals are specifically effective in B2B social media communication (Swani et al. 2014). The impact of online social cues on professional buyers deserves a place on the research agenda as well.

Social cues have value because of the behavioural response they elicit. The behavioural effects in the perceiver of social cues has not been thoroughly investigated, especially not in the context of the buyer-seller dyad in a B2B setting. A genuine smile, an attractive face or good eye contact may all help to guide the potential buyer towards the willing seller. To understand the drivers of approach-motivated behaviour by the professional buyer, further research is needed.

Bibliography


