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Title: The influence of social identity on value perceptions and intention

Short title: Social identity and value perceptions

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The influence of social identity on value perceptions and intention

Abstract

Despite much research on consumers' brand-identification researchers remain divided regarding the conceptualisation of the dimensions underlying social identity, and how these dimensions impact marketing outcome variables. Further, previous studies have failed to examine the underlying psychological process driving this effect. The current research is the first to assess the importance of affective social identity as the mediator through which cognitive social identity impacts consumers' purchase intentions by ways of emotional and social value. Results show that affective social identity mediates the relationship between cognitive social identity and emotional value, where affect is the main driver in the formation of purchase intention. This study highlights the need to model cognitive and affective social identity separately and provides insight into how consumers' social identification influences their perceptions of identity-linked products.

Keywords:

Social identity, cognitive social identity, affective social identity, consumer value perceptions, purchase intention

The influence of social identity on value perceptions and intention

Introduction

Marketers are becoming increasingly aware of the importance of consumers' identification with a brand or company, as they seek to build committed and meaningful relationships with their customers (Bhattacharya and Sen, 2003; Harmon-Kizer et al., 2013). Consumers use brands to construct and enact their social identity, for example by wearing branded clothes, discussing the brand and its products online, or attending events sponsored by the brand (e.g., Fiedler and Sarstedt, 2014). Social identity refers to the 'part of an individual's self-concept which derives from his knowledge of his membership in a social group (or groups) together with the value and emotional significance attached to that membership' (Tajfel, 1981: 255).

The social identity approach, first introduced by Tajfel and Turner (1979), has led to extensive research on social identity across disciplines (e.g., Bergami and Bagozzi, 2000; Kang et al., 2015; Lam et al., 2010). Owing to this multi-disciplinary research effort, confusion has arisen as to the conceptualisation and operationalization of social identity, leading to recent calls for further scale development and refinement (Lam et al., 2010). Findings suggest that social identity is multi-dimensional (e.g., Ashmore et al., 2004; Leach et al., 2008). In particular, Johnson et al. (2012) argue for a two dimensional representation of social identity, comprising of a cognitive and an affective dimension. The important role of affect in consumer decision making is well established in literature (e.g., Walsh et al., 2011) with consumers' emotional connection to an organisation and its products playing a central part in driving purchase decisions. Furthermore, marketing practitioners are calling for 'the marketing community to rethink measurement models, as the evidence continues to pour in that emotion plays a role ... in purchase decisions' (Duboff, 2013: 21). At present, the relationship between cognitive and affective social identity has yet to be fully explored. The first contribution of this research therefore lies in testing the role of affective social identity in

mediating the impact of cognitive social identity on consumers' value perceptions and purchase intention.

Consumers' identification with a brand is relevant for marketers, as identification positively affects consumers' judgments and behaviours (e.g., Escalas and Bettman, 2005; Forehand et al., 2002; Garry et al., 2008). Thus linking a brand to a social identity will likely result in more positive value perceptions and stronger purchase intentions from strongly identified consumers. However, studies to date (e.g., Lings and Owen, 2007; Madrigal, 2000; White and Argo, 2009) have neglected to examine the underlying psychological process, which this research addresses. Further, researchers (e.g., Gallarza et al., 2011) have called for a richer conceptualisation of customer value beyond quality and price and recommend contributions from the field of psychology among others. The present research reflects this by drawing together the research streams of social identity and perceived value in clarifying how the effects of (cognitive and affective) social identity are channelled through to purchase intention via the mediating role of consumers' value perceptions. The recent paradigm shift in marketing reflects the importance of the value construct, as companies attempt to create customer value (Vargo and Lusch, 2004). Gaining a better understanding of the process underlying the formation of consumers' value perceptions from a social identity perspective is thus novel and relevant for academics and practitioners.

Conceptualisations of social identity

Consumers hold mental representations of social groups and their members, including beliefs about a group's norms, values and associated behaviours. Such mental representation is also referred to as the content of a social identity (e.g., Ashforth et al., 2008; Herrmann and Brewer, 2004). Research shows that such mental representations are valued by individuals and are open to revision that gives rise to opportunities for "identity building" (Herrmann and

Brewer, 2004; La Barbera et al., 2014). However, insufficient attention has been paid regarding the nature and the constituents of such mental representations.

Leach et al. (2008) distinguish between members' group-level self-definition and their self-investment in the group. Members use their knowledge of the social group to construct a prototypical (ideal) group member (Hogg, 1993; Hogg, 2000). Prototypes are 'context-specific fuzzy sets that define and prescribe attitudes, feelings, and behaviours that characterize one group and distinguish it from other groups' (Hogg, 2000: 226). Based on their similarity to a group's prototypes consumers self-categorise themselves into a social group and use this group as a basis for their self-definition (Leach et al., 2008). Cognitive social identity thus refers to 'cognitive connection between the definition of [a social group] and the definition a person applies to himself or herself' (Wolter and Cronin, 2016: 401), which is in line with Leach et al.'s (2008) self-stereotyping construct. Consumers differ in the degree to which they define themselves in terms of the social group, which shapes their behaviours consistent with the social group (Turner and Oakes, 1986).

The literature suggests identification constitutes more than just cognition; as Harquail (1998: 224) puts it, identification 'engages more than our cognitive self-categorizations and our brains, it engages our hearts'. The emotional component of social identity relates to the self-investment dimension introduced by Leach et al. (2008), in particular to members' satisfaction with their group. The greater individuals experience a change in self-concept in line with the prototype, the greater social and emotional benefits they derive from the group membership. Such benefits arise because social categorisation of self leads to self-attraction and self-esteem (Hogg, 1993). In addition, members' ongoing cognitive appraisal of their social group is expected to result in positive feelings about the group membership, such as joy or happiness (Ellsworth and Scherer, 2003; Frijda et al., 1989; Lazarus, 1991; Moors, 2010). This effect is explained in detail later.

Affective social identity measures how positive individuals feel about their group membership (Johnson et al., 2012). While an agreement has been reached regarding the conceptualisation of cognitive social identity, affective social identity has been variously defined resulting in a number of different views (see Table 1). Ellemers et al. (1999) conceptualise affective social identity in terms of members' (affective) commitment to and emotional involvement with their social group. Affective commitment is the 'emotional attachment to, identification with, and involvement in, the organisation' (Meyer and Allen, 1991: 67). Despite some conceptual similarities between social identity and affective commitment the constructs are distinct (Ashforth et al., 2008). Specifically, commitment represents individuals' positive attitudes toward the organisation that can be formed independently of identification, for instance through satisfaction and trust (Ashforth et al., 2008). Consequently, affective commitment does not equate to affective social identity. Further, most items Ellemers et al. (1999) use to measure affective social identity capture intention to remain in the group, arguably an outcome of identification (Ashforth et al., 2008). Bergami and Bagozzi (2000) also capture affective commitment. With the exception of two items, they capture members' sense of belongingness and attachment to the group.

Insert Table 1 about here

Lam et al. (2010) measure the strength of customers' feelings regarding their belongingness to a brand using two items. However, as the items do not capture any specific emotions associated with affective social identity, such as pride or happiness, they likely do not reflect the full complexity of affective social identity. Finally, Leach et al. (2008) refer to group members' positive feelings about their group membership as 'satisfaction', which loads on a different dimension than their cognitive 'self-stereotyping' construct. Similar to Lam et al. (2010) and Harris and Cameron (2005), Leach et al. (2008) capture individuals' general positive feeling regarding the group membership, rather than specific emotions elicited by the

group membership such as pride or happiness. In sum, the social identity literature shows inconsistencies in the conceptualisation and operationalization of the affective social identity component.

Taking into account the above issues with existing conceptualisations of affective social identity, the present research uses the scales developed by Johnson et al. (2012). These authors provide a clear distinction between the two dimensions of social identity, evidencing discriminate validity between them. Cognitive social identity measures individuals' self-categorisation, that is group members' perceived similarity with the group, while affective social identity captures an 'individual's positive feelings about being one with a group' (Johnson et al., 2012: 1144).

Theory and hypotheses

Consumers' social identity

Whenever consumers' social identity is made salient, for example due to an advertising appeal, consumers receive feedback about their social group or their membership in it. An advertisement may portray the social group in a positive light or consumers may receive compliments on their group membership. Cognitive appraisal theories of emotion predict that such group-related feedback is cognitively appraised to assess the implications for the individual's subjective wellbeing, resulting in emotions such as happiness or joy (e.g., Ellsworth and Scherer, 2003; Frijda et al., 1989; Lazarus, 1991; Moors, 2010). Initial findings suggest that individuals' cognitive appraisal differs as a function of their cognitive social identity. In particular, the extent to which individuals emotionally share in their group's successes and failures depends on their cognitive identification making the group differently important to their self-definition (Crisp et al., 2007; Tajfel, 1978; Wann et al., 1995). In addition, Leach et al. (2008) show that individuals' self-stereotyping predicts participants' guilt over actions taken by their ingroup. It appears that individuals' level of cognitive social

identity determines how they appraise information, resulting in differential emotional responses.

Taken together, the higher consumers' level of cognitive social identity, the more the social group is linked to their self-concept and the more the social group has positive implications for their wellbeing. For these consumers, any positive information about the group represents positive information about their self, increasing their self-esteem and resulting in positive emotions (e.g., Ellsworth and Scherer, 2003; Smith and Ellsworth, 1985). However, for consumers low in cognitive social identity positive information about the group does not influence how they see themselves and subsequently does not trigger emotions. In support, Johnson et al. (2012: 1135) in their longitudinal study find initial evidence that 'cognitive identification may be a precondition for developing high levels of affective identification, but not vice versa'.

HI. Higher levels of cognitive social identity will lead to higher levels of affective social identity.

Social identity and value perceptions

Identification with a brand predicts consumers' value perceptions (e.g., He et al., 2012; Kleine III et al., 2009), but research has not taken into account the different dimensions of social identity or value. The conceptual model thus draws together two streams of research linking central concepts in social identity and product-related cognitions (value perceptions and purchase intention). The model posits that consumers' value perceptions act as a mediator, through which consumers' identification with a social group impacts their motivation to purchase identity-linked products. Value perceptions represent consumers' evaluation of their trade-off between the costs of acquiring a product and the benefits they receive from said product (Sánchez-Fernández and Iniesta-Bonillo, 2007).

Owing to the complexity of the value construct a number of alternative conceptualisations exist. As such, research has conceptualised value as a one-dimensional construct, measuring ‘the consumer’s overall assessment of the utility of a product based on perceptions of what is received and what is given’ (Zeithaml, 1988: 14). According to this perspective consumers engage in a cognitive trade-off between costs (price) and benefits they receive from a product (Zeithaml, 1988). Others such as Sheth et al. (1991) assert that multiple value dimensions impact consumer decision making with consumer perceptions of these value dimensions making different contributions depending on the consumption context. Babin et al. (1994) distinguish between utilitarian (products’ cognitive, task-oriented value) and hedonic value (products’ affective, experiential value). Mattson (1991) proposes emotional, practical (functional) and logical (rational, abstract) value dimensions, which are further extended in Holbrook’s (1999) typology of perceived consumer value. Sweeney and Soutar (2001) distinguish between an emotional, social, quality/performance and price value dimension. Overall, value perceptions appear to have a tangible/functional and an intangible/ experiential component, although research has focused mainly on the tangible (quality and price) value dimensions (see Sánchez-Fernández and Iniesta-Bonillo, 2007 for an overview). However, as brands provide self-definitional benefits, which go beyond such utilitarian benefits (e.g., Escalas and Bettman, 2003), these tangible value dimensions do not capture the underlying motivations regarding products that carry strong symbolic meanings (Holbrook and Hirschman, 1982). This study therefore models consumers’ perceived social and emotional value as outcomes of consumers’ social identity. Sweeney and Soutar (2001: 211) define social value as ‘the utility derived from the product’s ability to enhance social self-concept’, while emotional value captures the ‘utility derived from the feelings or affective states that a product generates’.

Consumers hold knowledge structures containing information on attitudes, behaviours, goals, and emotions, which characterize a certain social identity (Coleman and Williams, 2013; Kleine III et al., 1993). If members of a social group use a brand, the brand becomes part of this content (Escalas and Bettman, 2005). Brands can therefore derive meaning from the social group they are associated with, which is transferred onto the user (McCracken, 1986). Objects associated with the social group represent an opportunity for consumers to express their group membership. In this way social categories are substantiated. In parallel, research has shown that identification results in more positive product evaluations, as well as increased purchase intention for identity-linked products (e.g., Forehand et al., 2002; White and Dahl, 2007).

Consumers high in cognitive social identity perceive themselves as prototypical group members, and align their attitudes, feelings and behaviours with the group prototype (Hogg, 2000). Consumers align themselves with prototypical group members to avoid subjective uncertainty, an aversive state that they are motivated to rectify (Hogg, 2000). Furthermore, consumers can expect prototypical group members to evaluate products linked to the group favourably, as the positive group-evaluation transfers onto the product (Gawronski et al., 2007; Reed II et al., 2012). Taken together, products that signal a linkage to the group prototype will be perceived attitudinally and emotionally more favourable by these consumers.

H2. Higher levels of cognitive social identity will lead to higher levels of perceived (a) emotional value and (b) social value to be derived from the identity-linked product.

The identity-association principle (Reed II et al., 2012) predicts that when a stimulus, such as a product, becomes associated with a social identity held by a consumer an affective transfer takes place from the social identity to the product. The affective transfer results in a more favourable evaluation of and positive response to the product (Reed II et al., 2012).

Findings by Brendl et al. (2005) further suggest that this transfer is feeling based. As a result, for consumers high in affective social identity, products linked to the social identity will offer social and emotional benefits, due to the affective transfer from the social identity to the product. It follows that the higher consumers' affective social identity, the more social and emotional value they expect to derive of the identity-linked product.

H3. Higher levels of affective social identity will lead to higher levels of perceived (a) emotional value and (b) social value to be derived from the identity-linked product.

Consumers use brands to enact and communicate their social identity (Kleine III et al., 1993) to satisfy their need for a stable self-view. The resulting sense of coherence is important for individuals to interpret their surrounding and social interactions (Swann et al., 2003). Knowing who one is helps determine how to interact with others, and to predict how others will react to oneself. Consumers thus strategically use products or brands as identity cues, which allow them to communicate a consistent self-view (Swann et al., 2003). As such, an identity-linked product will be more useful as an identity cue for consumers high in cognitive social identity than for consumers low in cognitive social identity. Those high in cognitive social identity have a higher motivation to communicate their social identity and therefore higher purchase intention for a product that allows them to do so.

H4. Higher levels of cognitive social identity will lead to higher levels of intention to purchase identity-linked products.

Past research has highlighted the importance of emotions for explaining consumers' behavioural intentions in settings such as retail outlets, shopping malls, hotels, and restaurants (e.g., El Sayed et al., 2003; see also Elliott, 1998). Smith et al. (2007) find that group emotions, meaning emotions arising as a function of being a group member, predict a range of ingroup-supporting and outgroup avoiding behaviours (e.g., ingroup solidarity). This finding is due to emotions holding action tendencies, which may result in either approach or

avoidance related behaviours. Positive emotions such as happiness or joy have an approach-directed action tendency (Frijda et al., 1989). Consumers high in affective social identity are therefore expected to wish to engage in behaviours that make them feel closer to their social group, such as the purchase of identity-linked products to help enact their social identity.

H5. Higher levels of affective social identity will lead to higher levels of intention to purchase identity-linked products.

Value perceptions help understand important aspects of consumer behaviour such as purchase intention (e.g., Zhou and Wong, 2008). Studies evidence a strong impact of emotional value on purchase intention (Sweeney and Soutar, 2001; Turel et al., 2007; Williams and Soutar, 2009), customer satisfaction, and loyalty (Walsh et al., 2014). However, empirical evidence regarding the impact of social value on behavioural intentions is mixed, with significant findings by Sweeney and Soutar (2001) but not by others (e.g., Turel et al., 2007; Williams and Soutar, 2009). On balance, it is argued that

H6. Higher levels of (a) emotional value and (b) social value will lead to higher levels of purchase intention.

Methodology

Two studies were conducted to test the hypothesized conceptual model. In Study 1, a sample of 225 US consumers (43% female, average age of 43 years) was collected using Amazon's Mechanical Turk (MTurk). The study examined consumers' identification with Apple users, in the context of their intention to purchase a (fictitious) T-shirt branded with the Apple logo. In Study 2, a sample of 311 students (61% female, average age of 21 years) was collected at a UK university to cross-validate the findings by varying social group and country. The second study focused on students' identification with their Academic School as used in prior studies (e.g., Johnson et al., 2012). Respondents fill in a paper and pencil questionnaire, in the context of purchasing a hoodie branded by the Academic School, which was available for

sale. For both studies the measurement scales were adapted from existing scales (Table 2) based on a 7-point Likert response scale.

Insert Table 2 about here

Results

A two-step modelling approach was used in the analyses (Anderson and Gerbing, 1988). Initially confirmatory factor analysis was used to assess the reliability and validity of the scales in the measurement model then the hypotheses were tested based on structural equation modelling with the software package Amos (Version 22). Indirect effects were assessed using bootstrapping analyses (with 5,000 bootstrap samples) as recommended by Shrout and Bolger (2002). All reported p-values are two-tailed.

Study 1

In line with conventional benchmarks (Hair et al., 1998), the overall fit of the measurement model is good ($\chi^2 = 274.80$, d.f. = 125, $p < 0.001$, Comparative Fit Index [CFI] = 0.97, Tucker Lewis Index [TLI] = 0.96, Root Mean Square Error of Approximation [RMSEA] = 0.073, Normed Fit Index [NFI] = 0.94, Akaike Information Criterion [AIC] = 366.80). All constructs have alpha and construct reliability values above 0.80, with the lowest average variance extracted (AVE) of 0.71 (Table 2). All indicators load significantly ($p < 0.001$) on their respective constructs, with standardized factor loadings of 0.66 or above. These findings affirm the convergent validity of the measures (Fornell and Larcker, 1981). Table 3 shows the descriptive statistics and correlations between the constructs for studies 1 and 2. Discriminant validity is established across the five constructs in accordance with Fornell and Larcker (1981) as the squared correlation between each pair of constructs is smaller than the associated AVE values. Potential concerns regarding common method bias were addressed by employing two approaches recommended by Podsakoff et al. (2003). Specifically, the survey instrument contained three separate sections with instructions that forced an

interruption to subjects' responses. Secondly, Harmon's single factor test assessed the presence of common method bias showing no concerns as the single factor model yields greatly decreased fit ($\chi^2 = 2259.46$, d.f. = 135, $p < 0.001$, CFI = 0.54, TLI = 0.48, NFI = 0.53, RMSEA = 0.27, AIC = 2367.46).

The structural model shows similarly good fit statistics ($\chi^2 = 274.80$, d.f. = 125, $p < 0.001$, CFI = 0.97, TLI = 0.96, NFI = 0.94, RMSEA = 0.073, AIC = 366.80). Figure 1 shows an overview of the results. Cognitive social identity is positively related to affective social identity ($\beta = 0.59$, $p < 0.001$), therefore *H1* is supported. *H2a*, *H2b* and *H4* are also supported as cognitive social identity positively impacts emotional value ($\beta = 0.16$, $p = 0.03$), social value ($\beta = 0.46$, $p < 0.001$), as well as purchase intention ($\beta = 0.12$, $p = 0.008$). Affective social identity has a significant impact on emotional value ($\beta = 0.45$, $p < 0.001$), but not on social value ($\beta = 0.15$, $p = 0.06$), or purchase intention ($\beta = 0.08$, $p = 0.09$). *H3a* is therefore supported, but *H3b* and *H5* are not. Of the two value dimensions, only emotional value has a significant impact on purchase intention ($\beta = 0.79$, $p < 0.001$), thus *H6a* is supported, but *H6b* is not. The R^2 value of 0.80 shows that overall the proportion of variance explained in purchase intention is very high. In sum, of the nine direct relationships hypothesized six are supported.

Insert Table 3 and Figure 1 about here

The conceptual model suggests seven mediating processes (*M1* to *M7* – see Table 4). Examination of mediating effects using bootstrapping shows that affective social identity mediates the relationship between cognitive social identity and emotional value (*M1*) with a significant indirect effect ($\beta = 0.26$, CI: 0.17, 0.36). However, affective social identity does not mediate the relationship between cognitive social identity and social value (*M2*), because the bootstrapping results show the indirect effect is not significant with the 95% bias-corrected confidence interval crossing zero ($\beta = 0.09$, CI: -0.002, 0.18). Emotional value fully

mediates the effect of affective social identity on purchase intention (*M3*), as the indirect effect ($\beta = 0.35$) is significant (CI: 0.22, 0.47), while the direct effect is not ($p = 0.09$). Due to the insignificant direct effect of social value on purchase intention ($p = 0.91$) social value cannot mediate the impact of cognitive or affective social identity on purchase intention (*M4* and *M7*). Affective social identity also does not have a significant direct effect on purchase intention ($p = 0.09$), thus does not mediate the relationship between cognitive social identity and purchase intention (*M5*). Finally, cognitive social identity has a significant indirect effect ($\beta = 0.38$) on purchase intention through affective social identity and emotional value (*M6*: CI: 0.26, 0.50). The direct effect of cognitive social identity on purchase intention is significant ($\beta = 0.12$, CI: 0.03, 0.22), this (serial) relationship is partially mediated by affective social identity and emotional value. The R^2 value of 0.80 shows that, the overall proportion of variance explained in purchase intention is very high.

Insert Table 4 about here

Figure 2 depicts one possible alternative model with social identity conceptualised as a second-order latent construct in line with Bagozzi and Dholakia (2006) and Cheung and Lee (2010). This model has a worse model fit than the proposed model ($\chi^2 = 311.26$, d.f. = 128, $p < 0.001$, CFI = 0.96, TLI = 0.95, NFI = 0.94, RMSEA = 0.08, AIC = 397.26). Further, the results are similar to those of the proposed model, in that social identity positively impacts emotional value ($\beta = 0.75$, $p < 0.001$) and social value ($\beta = 0.76$, $p < 0.001$), while emotional value impact purchase intention ($\beta = 0.65$, $p < 0.001$), but social value does not ($p = 0.09$).

Insert Figure 2 about here

Study 2

Study 2 also yielded a good model fit ($\chi^2 = 260.72$, d.f. = 125, $p < 0.001$, CFI = 0.97, TLI = 0.96, NFI = 0.94, RMSEA = 0.059, AIC = 352.72) for the confirmatory factor analysis, which decreases greatly using Harmon's single factor test ($\chi^2 = 2140.12$, d.f. = 135, $p <$

0.001, CFI = 0.52, TLI = 0.46, NFI = 0.51, RMSEA = 0.219, AIC = 2248.12). The structural model also shows good fit statistics ($\chi^2 = 260.72$, d.f. = 125, $p < 0.001$, CFI = 0.97, TLI = 0.96, NFI = 0.94, RMSEA = 0.059, AIC = 352.72). Similar to Study 1 the design of the survey instrument resulted in interruptions to subjects' responses. Common method bias is therefore not an issue. As in Study 1, the high AVE values in comparison to the square of the correlations between pairs of constructs evidenced discriminant validity for this second sample.

Cognitive social identity has a positive direct effect on affective social identity ($\beta = 0.30$, $p < 0.001$), emotional value ($\beta = 0.20$, $p = 0.003$), and social value ($\beta = 0.59$, $p < 0.001$). Therefore, *H1*, *H2a*, and *H2b* are supported. Affective social identity has a significant impact on emotional value ($\beta = 0.38$, $p < 0.001$), but not on social value ($\beta = 0.03$, $p = 0.60$), meaning *H3a* is supported, while *H3b* is not. Further neither cognitive social identity ($\beta = 0.03$, $p = 0.57$), affective social identity ($\beta = -0.07$, $p = 0.12$), nor social value ($\beta = -0.09$, $p = 0.18$) have a direct effect onto purchase intention, thus *H4*, *H5*, and *H6b* are not supported. However, *H6a* is supported, as emotional value has a direct effect on purchase intention ($\beta = 0.92$, $p < 0.001$).

Similar to Study 1, affective social identity partially mediates the impact of cognitive social identity on emotional value (*M1*: $\beta = 0.11$, CI: 0.07, 0.18), but not the relationship between cognitive social identity and social value (*M2*: CI: -0.02, 0.04). The bootstrapping results also show that emotional value fully mediates the impact of affective social identity on purchase intention, as the indirect effect is significant (*M3*: $\beta = 0.34$; CI: 0.24, 0.46) but the direct effect is not ($p = 0.12$). As in Study 1 the lack of direct effect of social value on purchase intention ($p = 0.18$) prevents social value acting as a mediator between social identity and purchase intention (*M4* and *M7*). Affective social identity cannot mediate the effect of cognitive social identity on purchase intention (*M5*), due to the lack of significant

direct effect between affective social identity and purchase intention ($p = 0.12$). Finally, cognitive social identity has a significant indirect effect ($\beta = 0.21$) on purchase intention through affective social identity and emotional value ($M6$: CI: 0.09, 0.33). As the direct effect of cognitive social identity on purchase intention is not significant ($\beta = 0.03$, $p = 0.57$), this (serial) relationship is fully mediated by affective social identity and emotional value. The R^2 value of 0.73 shows that, the overall proportion of variance explained in purchase intention is very high.

Similar to the findings of Study 1, the fit of the alternative model is also worse than the fit of the proposed model ($\chi^2 = 311.01$, d.f. = 128, $p < 0.001$, CFI = 0.96, TLI = 0.95, NFI = 0.93, RMSEA = 0.068, AIC = 397.01). In line with the proposed model, social identity has a positive effect on emotional value ($\beta = 0.66$, $p < .001$) and social value ($\beta = .89$, $p < 0.001$). However, social identity does not affect purchase intention, either directly ($p = 0.61$) or indirectly (CI: -1.19, 5.52).

Taken together the two samples provide support for a serial mediation of cognitive social identity on purchase intention, through affective social identity and emotional value. As can be seen in Figure 1 the results for both studies are consistent with the exception of H4, which is supported by Study 1 but not Study 2.

Discussion

This research sets out to clarify the psychological process whereby (cognitive and affective) social identity results in marketing relevant outcomes by examining the mediating role of affective social identity and value perceptions. The findings lend support to the conceptual model. Specifically, affective social identity mediates the effect of cognitive social identity on emotional value, and emotional value mediates the effects of social identity on purchase

intention. It is important to examine these mediation processes to understand the underlying mechanism through which cognitive social identity impacts purchase intention.

The research makes two major theoretical contributions. Firstly, cognitive social identity and affective social identity are shown to be two distinct constructs, which affect emotional and social value differently. Traditionally social identity has been conceptualised as a uni-dimensional construct (e.g., Tajfel and Turner, 1979), but more recent work (e.g., Ashmore et al., 2004; Johnson et al., 2012; Leach et al., 2008) suggests that social identity is multi-dimensional. Despite this little is known about the relationship between cognitive and affective social identity and tests of their discriminant validity are scarce (Wolter and Cronin, 2016).

Secondly, this is the first study to empirically assess the role of affective social identity as the mediator, through which cognitive social identity affects consumers' product-related cognitions, as suggested by the identity association principle (Reed et al., 2012). Past research has studied the affective transfer from the personal identity to a product (Perkins and Forehand, 2012) but has not examined the mediating role of affective social identity. Results across both studies support the identity association principle whereby affective social identity mediates the effect of cognitive social identity onto emotional value and purchase intention. This finding suggests that past findings on identity-linked attitudes, perceptions and behaviours (e.g., Ahearne et al., 2005; Kim et al., 2010; Madrigal, 2000; White et al., 2012; Winterich et al., 2009; Zhang and Khare, 2009) should be reconsidered in light of their failure to account for the mediating role of affective social identity.

Not all hypothesized relationships are supported. *H5* was not supported as the effect of affective social identity on purchase intention is fully mediated by emotional value, hence the insignificant direct effect. Taken at face value, one might question the *H4* and *H5* findings where cognitive but not affective social identity has a significant impact on intention to

purchase the identity-linked product. One possible reason lies with the consumers' motive for identification. Consumers identify with social groups in order to feel better (self-esteem hypothesis; Tajfel and Turner, 1979) or to reduce uncomfortable social uncertainty (uncertainty reduction hypothesis; Hogg, 2000). Johnson et al. (2012) suggest that the two motives are associated with the two social identity dimensions. As such, self-esteem is associated with affective social identity, which captures how consumers feel about their group membership. Uncertainty-reduction is a motive underlying why consumers depersonalise in favour of the group prototype. Consumers high in cognitive social identity are motivated to behave in a manner consistent with prototypical attitudes, perceptions and behaviours in order to reduce subjective uncertainty (Hogg, 2000). Products linked to the social identity are likely consistent with the group prototype and therefore afford such opportunity for uncertainty reduction. However, such identity-linked products do not directly result in self-esteem enhancement through purchase alone. As a consequence, the study finds a lack of direct effect between affective social identity and purchase intention (*H5*).

Contrary to *H3b* affective social identity does not impact social value. Consequently, affective social identity does not mediate the impact of cognitive social identity on social value (*M2*), and social value does not mediate the relationship between affective social identity and purchase intention (*M4*). The failure to support *H3b* may be because even though consumers high in affective social identity feel positive about their group membership, they do not perceive identity-linked products as necessary for gaining social approval. However, the findings show a significant relationship between cognitive social identity and social value. Social value captures a product's ability to project the social self-concept associated with a social group. This self-concept is most consistent with that of individuals high in cognitive social identity, who have depersonalised strongly. Further, given the mixed results reported in the literature regarding the impact of social value on behavioural intention (e.g.,

Antón et al., 2014; Turel et al., 2007; Williams and Soutar, 2009), the failure to support *H6b* is not surprising.

One possible explanation of why social value does not impact purchase intention may lie in the conceptualisation and role of the social value construct in relation to the other perceived value constructs and the overall meaning of perceived value. Sweeney and Soutar (2001) reported much lower correlations between the social value dimension and the other three value dimensions. Further, prior research shows that social value does not relate to consumers' overall value perceptions (e.g., Turel et al., 2007; Walsh et al., 2014). Together these findings suggest that the meaning and role of the social value construct within consumer decision making needs to be reconsidered.

The results are robust as the second study, using a different social identity in a different country, yields very similar results leading to the same findings. Nevertheless, future research should replicate these findings, perhaps using different types of social groups. This research examined existing social groups but individuals may regard brands associated with aspirational groups differently, as they help satisfy different psychological needs, compared to non-aspirational groups (Escalas and Bettman, 2003). To a certain extent, this study can be considered cross-cultural, due to the use of samples from different individualistic cultures (the US and the UK). Future work should test whether the results and findings of the current research still hold in more collectivistic countries such as China or Portugal (The Hofstede Centre, 2014).

Along with its important theoretical contribution to existing research on identity-linked products, this study has important practical implications for marketing. As many products become increasingly interchangeable in mature markets (e.g., breakfast cereals), marketers must find new and innovative ways of connecting with their consumers. Linking products to (established) social groups such as ethnicity, lifestyle choices, football clubs, or a

region/district helps marketers engage with consumers, strengthen relationships, and adds value to brands. The present study shows that linking a product to consumers' social group adds social and emotional value to said products. Moreover, consumers who strongly identify with a social group are more willing to purchase a product associated with it and thus resulting in an increase in company revenues. Most importantly, this effect appears affect driven. Marketers may therefore wish to increase consumers' affective social identity, as a way to increase consumers' purchase intention. For example, advertisements may portray members of the particular social group positively or use emotional appeals and experiential marketing to increase consumers' affective social identity regarding the brand. In store, customers could be encouraged to interact with each other, for example to share positive stories about their experience with the brand. In contrast, if marketers wish to influence consumers' evaluations of the social value of their product, they should focus on consumers' similarity to the group, rather than highlighting the positive emotions associated with group membership. Finally, marketers may wish to make consumers' social identity more salient, especially at the point of purchase. For example, this can be achieved by making it possible to purchase products within an online brand community, which by its nature makes consumers' brand specific social identity salient.

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Table 1

Overview of (affective) social identity conceptualisations

Construct name and author(s)	Definition (where provided)	Scale items	Critique of measure
<i>Affective commitment</i> Bergami and Bagozzi (2000)	<p><i>Joy dimension</i> ‘[H]appiness arising from the organization as a social category’ (p. 560)</p> <p><i>Love dimension</i> ‘[E]motional attraction or affection towards the organization as a social category’ (p. 560)</p>	<p><i>Affective commitment (Joy)</i></p> <ul style="list-style-type: none"> • I would be very happy to spend the rest of my career with Camst. • I enjoy discussing Camst with people outside it. • I really feel as Camst’s problems are my own. • Camst has great deal of personal meaning for me. <p><i>Affective commitment (Love)</i></p> <ul style="list-style-type: none"> • I do not feel like part of the family at Camst. • I do not feel emotionally attached to Camst. • I do not feel a strong sense of belonging to Camst. 	Items 1 and 2 of the affective commitment (joy) subscale capture positive feelings resulting from group membership. However items 3 and 4 measure the importance of the organisation for the individual’s self-concept, rather than affective social identity. In addition, the items of the love subscale capture members’ feeling of belongingness/commitment to the organisation. Affective commitment differs from (affective) social identity. Affective commitment captures commitment to the group, measuring members’ intention to remain within the group, making it a behavioural outcome variable of social identity.
<i>Affective commitment</i> Ellemers et al. (1999)	‘[The] sense of emotional involvement with the group’ (p. 372)	<ul style="list-style-type: none"> • I would like to continue working with my group. • I dislike being a member of the other group. • I would rather belong to the other group. 	

Construct name and author(s)	Definition (where provided)	Scale items	Critique of measure
<i>In-group affect</i> Harris and Cameron (2005)	‘[T]he subjective evaluation of a social group and the subsequent emotions (e.g., feeling glad or regretful) this engenders’ (p. 160)	<ul style="list-style-type: none"> • In general, I am glad to be a member of this organization. • I often regret that I am a member of this organization. • I don’t feel good about being a member of this organization. • Generally, I feel good when I think about myself as a member of this organization. 	The in-group affect subscale captures members’ general feelings about their group membership (affective social identity), but could be extended by including additional specific emotions such as pride.
<i>Affective social identity</i> Johnson et al. (2012)	‘[I]ndividual’s positive feelings about being one with a group’ (p. 1144)	<ul style="list-style-type: none"> • I feel happy to be a student in the university. • I am proud to be a student in the university. • It feels good to be a student in the university. • If I were forced to leave the university, I would be very disappointed. 	
<i>Affective customer brand identification</i> Lam et al. (2010)	‘[The] affective investment in the awareness and evaluations [of customers’ belongingness to a brand]’ (p. 130)	<ul style="list-style-type: none"> • When someone praises [brand], it feels like a personal compliment. • I would experience an emotional loss if I had to stop using [brand]. 	Affective customer-brand identification taps into customers’ emotions regarding their belongingness to a brand, but does not capture any specific emotions. Additional items are needed to reflect the full complexity of affective social identity.
<i>Satisfaction</i> Leach et al. (2008)	‘[U]nambiguous feelings of satisfaction’ (p. 147)	<ul style="list-style-type: none"> • I am glad to be [In-group]. • I think that [In-group] have a lot to be proud of. • It is pleasant to be [In-group]. • Being [In-group] gives me a good feeling. 	Similar to Johnson et al. (2012)

Table 2
Measurement items and validity assessment

Construct	β	α	CR	AVE
<i>Cognitive social identity</i> (Johnson et al., 2012)		0.94 [0.81]	0.94 [0.83]	0.79 [0.56]
Your self-identity is based in part on being a user of Apple products.	0.93 [0.83]			
Using Apple products is very important to your sense of who you are.	0.96 [0.86]			
Your sense of self overlaps with the identity of Apple.	0.92 [0.75]			
If Apple were criticized, it would influence how you thought about yourself.	0.72 [0.48]			
<i>Affective social identity</i> (Johnson et al., 2012)		0.88 [0.82]	0.91 [0.85]	0.71 [0.60]
You feel happy to be an Apple user.	0.86 [0.84]			
You are proud to be an Apple user.	0.87 [0.88]			
It feels good to be an Apple user.	0.95 [0.86]			
If you were forced to stop using Apple products, you would be very disappointed.	0.66 [0.45]			
<i>Emotional value</i> (Sweeney and Soutar, 2001)		0.96 [0.91]	0.99 [0.95]	0.95 [0.83]
A T-shirt branded with the Apple logo ...				
• is one that you would enjoy wearing.	0.98 [0.91]			
• would make you want to wear it.	0.97 [0.91]			
• is one that you would feel relaxed about wearing.	0.87 [0.81]			
<i>Social value</i> (Sweeney and Soutar, 2001)		0.94 [0.91]	0.97 [0.91]	0.89 [0.73]
A T-shirt branded with the Apple logo would...				
• help you feel acceptable.	0.87 [0.84]			
• improve the way you are perceived.	0.93 [0.88]			
• make a good impression on other people.	0.88 [0.86]			
• give its owner social approval.	0.88 [0.84]			
<i>Purchase intention</i> (White et al., 2012)		0.95 [0.93]	0.95 [0.94]	0.88 [0.83]
You would...				
• be likely to purchase a T-shirt branded by Apple.	0.99 [0.96]			
• be willing to buy a T-shirt branded by Apple.	0.92 [0.95]			
• likely make a T-shirt branded by Apple one of your first choices in this product category.	0.89 [0.82]			

Notes: Items phrased as Study 1 (Apple). All items measured using seven-point scales anchored by 0 = Strongly disagree and 6 = Strongly agree; β : standardized beta coefficient; α : Cronbach's alpha; AVE: average variance extracted; CR: construct reliability. $n = 225$ [Main study, Apple] ($n = 311$ [Study 2, Academic School]); results of Study 2 in square brackets.

Table 3.
Descriptive statistics and correlations between the constructs

Construct	Mean (SD)	1	2	3	4
1. Cognitive SI	1.50 (1.44) [2.80 (1.15)]	- [-]			
2. Affective SI	3.90 (1.28) [4.90 (0.84)]	0.60 [0.20]	- [-]		
3. Emotional value	2.60 (1.80) [3.80 (1.32)]	0.40 [0.30]	0.50 [0.40]	- [-]	
4. Social value	2.00 (1.50) [2.90 (1.36)]	0.50 [0.60]	0.40 [0.20]	0.60 [0.50]	- [-]
5. Purchase intention	2.00 (1.81) [3.60 (1.55)]	0.50 [0.20]	0.50 [0.30]	0.90 [0.80]	0.60 [0.50]

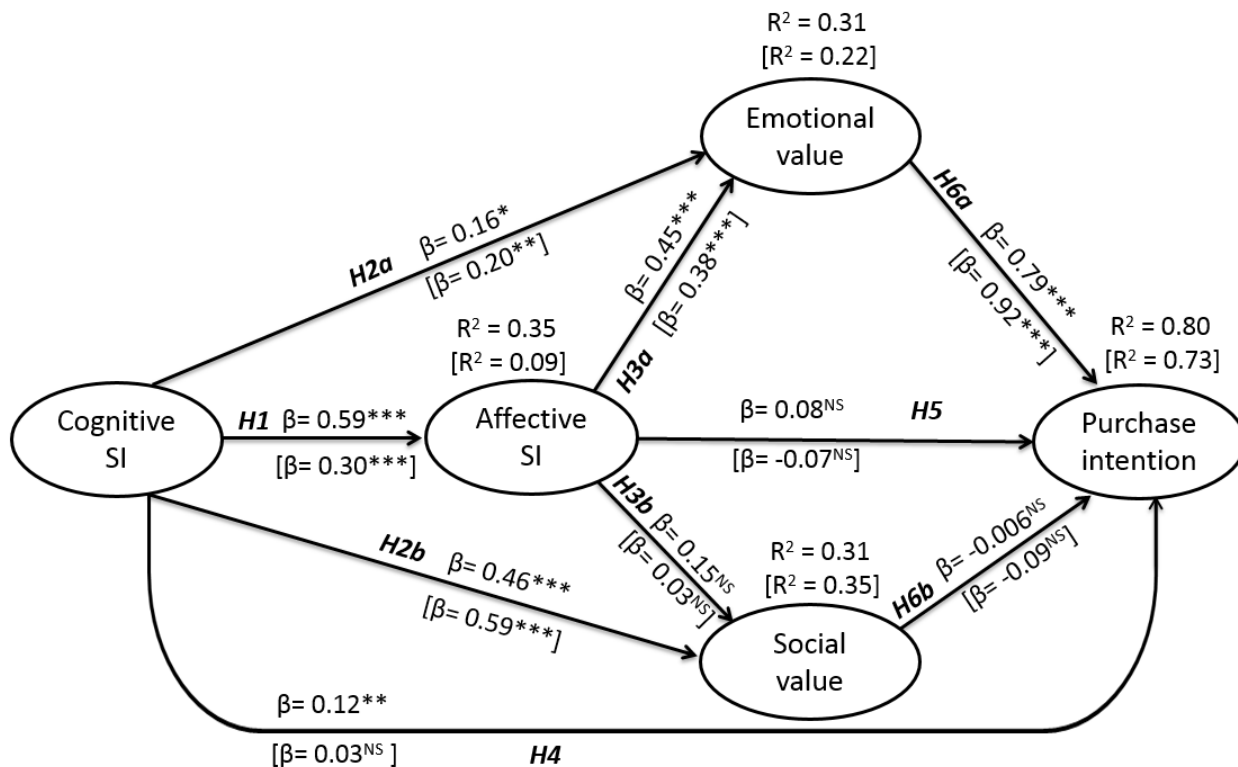
Notes: SD= standard deviation, SI = social identity; results of Study 2 in square brackets; all correlations are significant at $p < 0.01$ (2-tailed)

Table 4
Overview of mediating effects

Mediating pathway	Full/Partial/No
M1. Cognitive SI → Affective SI → Emotional value	Partial [Partial]
M2. Cognitive SI → Affective SI → Social value	No [No]
M3. Affective SI → Emotional value → Purchase intention	Full [Full]
M4. Affective SI → Social value → Purchase intention	No [No]
M5. Cognitive SI → Affective SI → Purchase intention	No [No]
M6. Cognitive SI → Affective SI → Emotional value → Purchase intention	Partial [Full]
M7. Cognitive SI → Affective SI → Social value → Purchase intention	No [No]

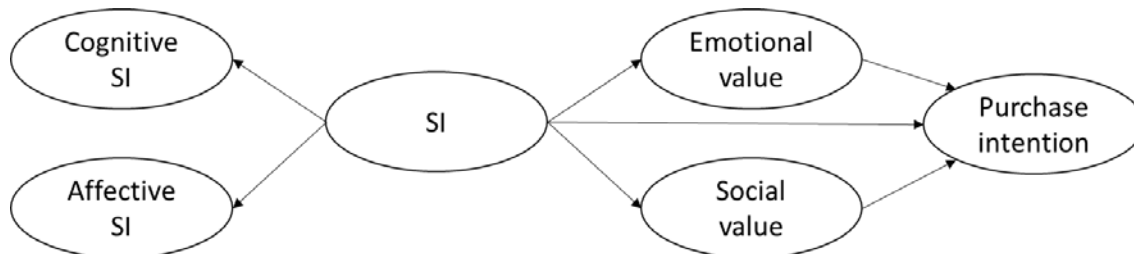
Notes: Results of Study 2 in square brackets; SI = social identity

Figure 1. Results of Studies 1 and 2



Notes: * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, NS = not significant; SI= social identity; results of study 2 in square brackets

Figure 2 Alternative model



Notes: SI = social identity