



Brand Personality: Theory and Dimensionality

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Structured Abstract

Purpose: To critique human personality as theory underpinning brand personality. To propose instead theory from human perception and, by doing so, to identify universally relevant dimensions.

Design/Method: A review of published measures of brand personality, a re-analysis of two existing data bases and the analysis of one new database are used to argue and test for the dimensions derived from perception theory.

Findings: Existing work on brand personality suggests 16 separate dimensions for the construct, but some appear common to most measures. When non-orthogonal rotation is used to re-analyse existing trait data on brand personality, three dimensions derived from signalling and associated theory can emerge: Sincerity (e.g. warm, friendly, agreeable), Competence (e.g. competent, effective, efficient) and Status (e.g. prestigious, elegant, sophisticated). The first two are common to most measures, status is not.

Research Implications: Three dimensions derived from signalling and associated theory are proposed as generic, relevant to all contexts and cultures. They can be supplemented by context relevant dimensions.

Practical Implications: Measures of these three dimensions should be included in all measures of brand personality.

Originality: Prior work on brand personality has focussed on identifying apparently new dimensions for the construct. While most work is not theoretically based, some have argued for the relevance of human personality. That model is challenged and an alternative approach to both theory and analysis is proposed and successfully tested.

Keywords: Brand personality; signalling theory; stereotype content model; brand image.

Brand Personality: Theory and Dimensionality

The measurement of intangible brand associations is often operationalised using measures of brand personality and, while the approach has proven useful to both academics and practitioners in explaining the consequences of such associations with a brand (Eisend and Stokburger-Sauer, 2013), it has attracted controversy. In our paper, we focus on two related issues that have emerged since the first formal publication of a brand personality scale (Aaker, 1997): the theoretical foundations for the construct; and the overly large number of dimensions being discovered. Our main aim is to identify those dimensions of brand personality that can be regarded as truly generic, applicable across all contexts.

Our paper has two main empirical components. The first analysis shows that a large number of 'new' dimensions are being identified in the literature but that many of these contain measurement items which are similar to those used in previous scales to identify dimensions which were given different labels. We then show how a more theoretically based, less empirically driven, approach could have identified three dimensions, (Sincerity, Competence, and Status) two of which are common to most existing measures. We demonstrate how Status could have been identified in two other studies, particularly if non-orthogonal data rotation had been used. We confirm the relevance of these three dimensions in one further study.

In our theory sections, we critique the idea that human personality offers a convincing theoretical basis for brand personality and propose instead the relevance of signalling theory and the stereotype content model.

Being clear as to the theoretical underpinning for brand personality is important because such theory will define the construct and its dimensionality. If human personality is not directly

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3 relevant to brand personality (as we will argue and evidence) then the assumption that it is
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5 will lead to both miss-identification of the construct and its dimensions.
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9 We do not aim to present a new measure of brand personality, rather our main intended
10 contribution is that certain theoretically derived and empirically supported dimensions should
11 be seen as relevant to brand personality irrespective of context and the choice of
12 measurement items. Other dimensions identified in the literature should be used in specific
13 contexts. Our main practical contribution is to propose a model of brand personality where
14 there are a limited number of core dimensions, which theory suggests are universally
15 relevant, but with a larger number of dimensions which may be relevant depending upon the
16 context (brand type, respondent type, and language).
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28 **The Evolution of Brand Personality Measures**

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30 Quantitative academic research to measure what was originally labelled as ‘corporate
31 personality’ began with a semantic differential scale, using items such as
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33 ‘irresponsible/responsible’ and ‘modest/brash’ (Markham, 1972). The same projective
34 approach was widely used by practitioners to evaluate product brands; King (1973) for
35 example claiming the difference between competing brands lay in their different
36 ‘personalities’. Two other practitioners, Alt and Griggs (1988), published the first scale
37 where there was an emphasis on the dimensionality of the construct.
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48 Aaker’s (1997) paper, which more formally identified the dimensions of brand personality,
49 marked a step change in interest in the topic by presenting a rigorously tested,
50 multidimensional measure. The construct was defined as ‘*the set of human characteristics*
51 *associated with a brand*’ a definition we adopt throughout our paper. The measurement scale
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3 was designed to be generic, applicable to all brands. The five dimensions that emerged from
4
5 a factor analysis of data from members of the American public asked to assess a number of
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7 consumer brands, were labelled as (with example measurement traits in parentheses):
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9 **Sincerity** (honest, genuine, cheerful); **Excitement** (daring, imaginative, up-to-date);
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11 **Competence** (reliable, dependable, efficient); **Sophistication** (glamorous, charming,
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13 romantic) and **Ruggedness** (tough, strong, rugged). The well-known and established brands
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15 that were used in the survey included some that are both product and corporate brands. As a
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17 generic measure, it would remove much of the need for researchers to undertake initial,
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19 qualitative work to establish the dimensions and traits needed to explore and measure any
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21 brand's intangible associations. However, the dimensional structure had emerged from a
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23 factor analysis of the survey data and was not based upon any underpinning theory.
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29 Subsequent work by the same author found that only four of the original five dimensions
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31 were relevant in a Japanese context (Sincerity, Excitement, Competence, and Sophistication).
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33 'Peacefulness' in Japan and 'Ruggedness' in America, were argued to be culturally specific
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35 dimensions (Aaker, et al., 2001). Similarly, data from Spain yielded dimensions common to
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37 both Spain and the United States (Sincerity, Excitement, and Sophistication), and again more
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39 apparently country specific dimensions; in Spain (labelled Passion and Peacefulness) and in
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41 America (Competence and Ruggedness). Only three dimensions (Sincerity, Excitement, and
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43 Sophistication) were common to the studies in Japan, Spain and the USA, and therefore
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45 potentially universally relevant and generic (Aaker, et al., 2001). Similar findings were to
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47 follow. Sung and Tinkham (2005) supplemented Aaker's scale items with ones that had
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49 emerged from initial, qualitative work and found differences in both factor structure and item
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51 relevance between their American and Korean data. Muniz and Marchetti (2012) found some
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53 dimensions of the Aaker scale were replicated in their study in Brazil, but not all.
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5 Meanwhile, interest in applying the idea of brand personality measurement was widening
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7 beyond the context of customers to include other stakeholders and specifically employees and
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9 potential employees. Within the organisational behaviour literature Slaughter, et al. (2004)
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11 devised a measure relevant to potential employees. Within the reputation literature Davies, et
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13 al. (2004) published a scale validated for both employees and customers. The dimensions of
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15 each scale differed from those in Aaker (1997) both in terms of the dimensions identified and
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17 the items used to measure individual dimensions.
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22 The setting for the use of brand personification broadened further with its application in
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24 location studies, and specifically to the marketing of cities, regions, and countries
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26 (O'Shaughnessy and O'Shaughnessy, 2000; Ekinici and Hosany, 2006; Murphy, et al., 2007;
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28 Kim and Lehto, 2013). Locations and even countries are personified in common parlance in
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30 much the same way as any brand (d'Astous and Boujbel, 2007). Issues of item or
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32 dimensional validity emerged which were similar to those raised previously in work with
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34 product, service and corporate brands. Ekinici and Hosany (2006) and Murphy, et al. (2007)
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36 found that Aaker's brand personality scale did not fully represent the gamut of personality
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38 traits associated with destinations and that many traits were located under different
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40 dimensions from those in the original scale. The former authors argued that this is due to the
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42 same trait item having different meanings when associated with different objects. Rojas-
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44 Mendez, Murphy, and Papadopoulos (2013: 1029) suggested Aaker's measure may not
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46 adequately represent location personality. Not surprisingly scales have been developed
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48 specifically for: country/nation brand personality (d'Astous and Boujbel, 2007; Rojas-
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50 Mendez and Papadopoulos, 2012; Rojas-Mendez, et al.2013a); and city brand personality
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52 (Kaplan, et al., 2010).
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5 Brand personality scales have also been developed within a number of other specific
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7 contexts, for example for retailers (d'Astous and Levesque, 2003), not for profit organisations
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9 (Venable et al., 2007) and universities (Rauschnabel et al., 2016). As the number of
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11 published scales has increased, as we will evidence, so have the number of dimensions for
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13 what should be the same construct. Brand personality measures have also continued to evolve
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15 in the commercial environment. WPP's BrandZ, for example, uses a 24-item personality
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17 scale to study the brand imagery of over 14,000 brands worldwide. The scale's dimensions
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19 have been labelled as extroversion, sensitivity, playfulness, stability, conscientiousness, and
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21 intellectualism (Page and Farr, 2000), labels which appear closer to those of human
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23 personality, albeit with 6 dimensions.
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29 Brand personality scales have been criticised for a perceived lack of a clear theoretical
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31 underpinning (Austin, et al., 2003; Berens and van Riel, 2004; Clardy, 2012) and because
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33 many measurement items (such as masculine and feminine) do not reflect 'personality'
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35 (Azoulay and Kapferer, 2003). However, human personality has often been argued to be
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37 'theory' relevant to brand personality. We now review and critique this perspective.
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41 **Human personality as the theoretical basis for brand personality**

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43 While Aaker (1997) drew parallels with human personality measures, she did not explicitly
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45 link the structure of brand personality with that of human personality, defining the construct
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47 of brand personality in terms of the 'human characteristics' that can be associated with a
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49 brand, that in her case included items which are not personality traits. Others have argued that
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51 measures designed for human personality can be used or adapted to measure brand
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53 personality (Kassarjian, 1971; Huang, et al. , 2012; Kang, Bennett and Peachey, 2016) but
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3 Caprara, et al. (2001) maintain that there are fundamental differences between the two
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5 structures. Nevertheless, Geuens, et al. (2009) aimed to make the dimensions of their brand
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7 personality scale compatible with those of human personality, arguing that there is evidence
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9 from the structure of published measures to support this. Others imply such a theory base in
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11 their work (Chen and Rodgers, 2006; Kaplan et al., 2010; Milas and Mlačić, 2007).
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16 There are a number of approaches to the study and measurement of human personality. The
17
18 one referenced in prior work on brand personality is the Five Factor Model, commonly
19
20 referred to as the Big 5 (Aaker, 1997; Chen and Rodgers, 2006; Geuens, et al., 2009; Kaplan
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22 et al., 2010; Milas and Mlačić, 2007). The dimensions of human personality and typical
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24 examples of the traits used to measure them (from McCrae and John, 1992) are:
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29 **Extraversion:** active, assertive, energetic, enthusiastic, outgoing, talkative
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31 **Agreeableness:** appreciative, forgiving, generous, kind, sympathetic, trusting
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33 **Conscientiousness:** efficient, organised, planful, reliable, responsible, thorough
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35 **Neuroticism:** anxious, self-pitying, tense, touchy, unstable, worrying
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37 **Openness:** artistic, curious, imaginative, insightful, original, wide-interests
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42 This and other similar personality measures were derived as self-reports with measurement
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44 items for human Agreeableness such as ‘Most people I deal with are honest, trustworthy’ and
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46 ‘My first reaction is to trust people’ (both taken from the NEO PIR)¹, whereas brand
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48 personality measures are by definition ‘other’ reports which ask respondents, for example, ‘If
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50 brand x came to life as a human being would s/he be trustworthy?’ to measure the apparently
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52 corresponding dimension of brand personality, Sincerity. Furthermore, the human inventory
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57 ¹ http://www.hogrefe.co.uk/news/wp-content/uploads/2015/06/NEO-PI-R_Technical.pdf
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3 for Agreeableness measures the propensity of the individual to trust, whereas the brand
4 inventory for Sincerity measures whether the brand is trusted, which are quite different and
5 not directly comparable. A high score for being an Agreeable human implies the individual is
6 overly predisposed to trust (a negative) while being highly trusted is an objective for any
7 brand.
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15 Even Aaker et al. (2001) acknowledge that only three dimensions in the original scale (Aaker,
16 1997) are comparable with those in the “Big 5” (Sincerity with Agreeableness; Competence
17 with Conscientiousness and Excitement with Extraversion). Slaughter et al. (2004) concur
18 and note that the two other dimensions in Aaker’s measure (Sophistication and Ruggedness)
19 differ markedly from Neuroticism and Openness in human personality, even when the
20 antonyms of their measurement items are considered.
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31 The idea that the structure of human personality offers a theoretical framework for brand
32 personality can be challenged more fundamentally, as the Big 5 framework of human
33 personality was itself empirically derived, with little or no theoretical support to guide its
34 development. Early work relied upon factor analysis of survey data using words taken from
35 the English dictionary that appeared relevant to human traits, rather than any theory as to
36 what the dimensions of personality might be (McCrae and John 1992:103). Digman (1990)
37 recalls the use of the term ‘taxonomy’, rather than ‘theoretical structure’ or similar, in
38 labelling the emergence of five robust factors. Two of its greatest proponents, McCrae and
39 John (1992:189) explain that ‘*the Big Five taxonomy provides descriptive concepts that still*
40 *need to be explicated theoretically*’. The word theory means: ‘*a supposition or a system of*
41 *ideas intended to explain something, especially one based on general principles independent*
42 *of the thing to be explained,*’ and the Big 5 taxonomy was not and is still not, a theory, as it is
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3 not independent of what it is designed to explain, as it was derived from the analysis of
4 personality traits. The emergence of the Big 5 did, however, provide researchers with a
5 common language and 5 replicable domains of personality, facilitating comparisons between
6 studies.
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13 Interestingly, similar issues to those we noted earlier with brand personality had also emerged
14 in human personality research, specifically around the validity of the Big 5 in different
15 cultures (McCrae and Costa, 1997; McCrae and Allik, 2002). There is also an ongoing debate
16 as to the appropriate number of dimensions for human personality, (Musek, 2007; Ashton, et
17 al., 2009).
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26 There are two further difficulties in seeing brand personality as being directly associated with
27 human personality. First, if asking respondents to evaluate a brand's image through
28 personification involves, as some contend (e.g. Cohen, 2014), their thinking of an actual
29 person, then their thought processes should be similar to those when asking someone to
30 evaluate the personality of an actual human. However, when neural magnetic resonance
31 imaging was used to compare how respondents processed human personality and brand
32 personality data (Yoon, et al., 2006) the data were found to be processed in different parts of
33 the brain, leading to a conclusion from the authors that their results '*challenge the view that*
34 *processing of products and brands is akin to that of humans*' (Yoon, et al., 2006:31).
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48 Second, as both human and brand personality are measures of reputation, the first of a person
49 if viewed by another (Hogan and Hogan, 2007: 8), the second of a brand (Davies et al.,
50 2001), it would be very surprising if they had nothing in common, given that they share a
51 basis in spoken language. But is there enough evidence to support the idea that human
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3 personality is relevant to brand personality? The direct implications of adopting the Big 5
4 dimensions of human personality as theory for brand personality are that the dimensions
5 should be the same (Geuens, et al. , 2009) and that humanistic associations other than those
6 which can be regarded as personality traits should be excluded from such measures (Azoulay
7 and Kapferer, 2003).
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15 We now discuss the relevance of signalling theory and the Stereotype content model (SCM)
16 as an alternative and competing theoretical underpinning for brand personality.
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22 **Human Communication and Perception Theory and Brand Personality**

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24 A signal is defined as “an action that the seller can take to convey information credibly about
25 any unobservable product quality to the buyer” (Rao, et al., 1999: 259). Signalling theory
26 explains that, in a context of information asymmetry, the knowledge holder (here the
27 company owning the brand) may not wish to provide the other party (here the actual or
28 potential customer, employee or other stakeholder) with perfect information, and instead uses
29 one or more signals to communicate (Spence, 1973). A signal is proxy information; for
30 example, employers accept qualifications as a signal of intelligence and employees use their
31 qualifications to signal the same attribute (Spence, 1973). Signalling works firstly when
32 members of a group (here competing brands) vary in some underlying attribute (here the
33 qualities of the brands) that is difficult or impossible to observe, but which could be reliably
34 signalled and, secondly, when recipients (e.g. customers) stand to gain from such information
35 (Bliege Bird and Smith, 2005).
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52 Specific signals evolve because senders learn what information it is useful to convey;
53 additionally, the more costly the signal, the more reliable the signal is perceived to be
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(Connelly, et al., 2011). A brand's advertising is a costly signal used to signal objective information such as product efficacy but also more perceptual and symbolic attributes (Erdem and Swait, 1998: 137) such as the brand's personality. Specific signals by corporates have been noted which map onto those of individual dimensions of brand personality: that of corporate competence and, by implication, the competence and reliability of a company's products (Fombrun and Shanley, 1990); and that of the company's credibility (Erdem and Swait, 1998) and trustworthiness (Wang, et al., 2004). The last two mentioned reflect the brand personality dimension of Sincerity and both credibility and prestige as signals in the marketing of brands (Baek et al., 2010).

Humans also use signalling. For example, males give higher tips than females, particularly when in female company, signalling altruism and generosity (Iredale, et al., 2008). Human to human signals indicating honesty (Zahavi, 1977) and competence (Spence 1973) map onto brand personality dimensions but one commonly mentioned signal, status (Fehr and Fischbacher, 2003; Griskevicius, et al., 2007; Nelissen and Meijers, 2011) is, as we shall show, rarely specifically identified in brand personality measures. Many brands signal status and their display promotes a competent impression to others and can also induce positive behavior among them (Griskevicius, et al., 2007). Firms, in turn, will have learnt that their brands should signal such traits and to avoid providing information which may lead to negative judgements on these same dimensions.

Signalling theory is compatible with the idea that brand meaning is co-created between firm and customer (Wallpach et al., 2017) in that it emphasises that companies learn from how customers react and which signals they should deploy in their marketing. But signalling theory does not overtly extend to identifying a typology of signals. An explanation for three

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3 common types of signal (honesty/sincerity, competence, and status) can be found however in
4 a theory which aims to explain which signals humans seek and why- the stereotype content
5 model (SCM). This argues that we judge social groups or individuals in terms of their
6 relative 'warmth' and 'competence' (Fiske, et al., 2002). Warmth judgements concern the
7 perceived intentions of another party, specifically how friendly, helpful and trustworthy they
8 are thought to be (Fiske, et al., 2007), while competence concerns the ability of that other
9 party to enact their intentions. It is also argued that someone's social status is used to infer
10 their competence, as we assume that people acquire status by being competent (Fiske, et al.,
11 2007) and also that low status groups are seen as such because they are seen as lacking both
12 competence and warmth (Cuddy, et al., 2008). In other words, the three aspects are not
13 independent of each other.
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29 The need to judge warmth and competence is claimed to be primeval, dating from a time
30 when a failure to make such judgements correctly risked personal harm, such that only those
31 genetically predisposed to make them survived (Fiske, et al, 2007; Krings, et al., 2011) thus
32 ensuring that modern humans still automatically make such evaluations. Such judgements are
33 of human traits, and the dimensions of warmth and competence are very similar to those of
34 two of the dimensions used to measure brand personality (Sincerity and Competence) and can
35 apply to both individuals and groups. The SCM has subsequently been used to explain
36 differences in how both organisations and countries are perceived (Aaker, et al., 2010; Cuddy
37 et al., 2009) emphasising the humanistic associations we make with both, and formally
38 adapted to the context of branded entities (Kervyn, et al., 2012).
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52 While warmth (labelled as Sincerity in Aaker, 1997) and competence are commonly
53 identified in brand personality measures, status has not been overtly identified until relatively
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3 recently as a specific dimension in brand personality as ‘prestige’ (Rauschnabel, et al., 2016).
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5 Status is certainly relevant to brands and to their acquisition. Status symbols have also
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7 changed from the mere possession of something that is rare such as a car or a television in the
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9 early part of the last century (Blumberg, 1974) to today when what matters is the brand of car
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11 or television that is owned. Many brands are bought to signal status (Eastman, et al., 1999;
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13 Han, et al., 2010). The status or prestige of one’s employer is just as relevant. For example
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15 working in the civil service, rather than in commerce, is seen as less prestigious by potential
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17 employees (Vandenabeele, et al., 2004). Existing employees are also concerned about how
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19 the status of their employing organisation is perceived externally; ‘perceived external
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21 prestige’ influences both employee identification (Smidts, et al., 2001) and commitment
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23 (Carmeli, 2005).
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29 **Despite the importance of status being seen to have evolutionary explanations (Turke and**
30 **Betzig, 1985; Cheng, et al., 2010) signaling and stereotype content theories differ in their**
31 **location of status.** We return to this issue later but note for the moment that if these
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33 dimensions are not independent, as implied by the SCM, it would be inappropriate to use
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35 orthogonal rotation to explore and factor data pools to identify them, as such an approach
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37 assumes each dimension is independent of and uncorrelated with others.
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44 The idea that there are a limited number of theoretically supported dimensions of brand
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46 personality suggests that these might emerge irrespective of context. To explore this further,
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48 we first compare the dimensions found in published scales of brand personality by comparing
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50 the measurement items used to define them.
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Divergence and convergence in brand personality measures

Table (1) shows the dimensions and typical items we identified in 21 studies published between 1997 and 2016 and derived in various contexts of: respondent type (customer, consumer, student, commercial buyers and sellers, employees and potential employees); branded entity type (consumer brands, company/corporate brands, cities and countries) and country/culture (USA, UK, Spain, Japan, Holland, Canada, Germany, Croatia, Turkey, India, Brazil, Belgium and China²). We included any study identified in our literature searches where the objective had been to derive a brand personality scale and where the work had been published in a refereed publication.

Two coders (one not involved in this paper) were asked, independently, to identify any commonality between dimensions identified in separate studies by comparing the measurement items used to identify each dimension (not the dimension labels) starting with the 5 dimensions of Aaker (1997). Each scale was considered in the same order by each coder. They used dictionaries of synonyms and antonyms to decide whether the items for a given dimension in each subsequent paper were similar in meaning to those describing a dimension in a previous paper. The coders then compared their analyses, identifying where they agreed and whether an agreement could be reached where differences occurred. There were 90 coding decisions to make and the initial comparison showed agreement on 87 (97%). After discussion, this rose to 89 (99%). Table 1 shows where an agreement was reached on dimension similarity and uses a question mark where coders agreed they could not be sure about the allocation or the one case where one felt sure and the other did not.

Take in Table 1 here

² The scale for the Geuens et al 2009 study was derived in Belgium and tested in 9 other, mainly European countries)

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3 The protocol adopted for Table 1 was to use the label for a dimension from the first paper
4 considered and then to allocate the dimensions identified in other work, if possible, to one of
5 these same labels. For example Aaker (1997) used the label of Sincerity for a dimension
6 including items such as honest, genuine and cheerful, while Davies, et al. (2004) and
7 Slaughter, et al. (2004) referred to similar dimensions as Agreeableness and Boy Scout
8 respectively, but had used items with similar meaning to define them. Consequently,
9 Sincerity is shown in Table 1 as a dimension common to all three studies.
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20 Using this approach, the dimension Sincerity (honest, genuine and cheerful) was found in all
21 but 2 of the 21 studies, Competence (reliable, dependable, efficient) in all but 5, Excitement
22 (daring, imaginative, up-to-date) in all but 1, and Sophistication (glamorous, charming,
23 romantic) in all but 8. Thereafter there is little commonality of dimensions, with Ruggedness
24 (tough, strong, rugged) being identifiable in a maximum of only 6 studies, Ruthlessness
25 (controlling, aggressive) in at most 6 and Peacefulness (gentle, mild, peaceful) in just 5.
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27 Some dimensions emerged in only a single study.
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38 The number of separate dimensions for brand personality implied by Table 1 is 16, which is
39 far too large a number to be useful as a 'generic' measure. However, what is notable is how
40 much the 21 scales share in terms of their dimensionality, irrespective of the sometimes
41 different contexts and languages in which they were developed (and the differences in the
42 specific items used to measure a particular dimension). Despite the differences in labels given
43 to similar dimensions by authors, some dimensions appear common to most contexts, even
44 though the items to measure them might differ, indeed need to differ, with context.
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46 Competence for example, rather than being specific to an American culture (Aaker, et al.,
47 2001) and to consumer evaluations of product brands, is clearly relevant in many contexts:
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3 different cultures, brand types (corporate, country etc.) and respondent types (customer,
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5 employee, potential employee).
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9 While some studies made specific reference to human personality as a theoretical framework,
10 most made no explicit reference to any theoretical underpinning and very few compared the
11 dimensionality of their measures with that of human personality. Only two studies appeared
12 to have begun their empirical work by nominating the dimensions they expected from theory
13 and then trying to populate them with relevant items, in other words almost all work was
14 empirically driven. Only 5 studies reported on the predictive validity of their measures. 8
15 studies reported incorporating the items from Aaker (1997) and adding to them from either
16 qualitative work or from other existing scales.
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28 There were differences in how authors defined brand personality and while 12 used Aaker's
29 definition (*humanistic associations*) or an adaption thereof, two papers used '*a mental*
30 *representation of a store that typically captures an individual's personality*' and three used
31 '*brand personality is the set of human personality traits that are both applicable to and*
32 *relevant for brand*'. The difference is that Aaker's original definition encompasses the
33 broader idea of the human characteristics associated with a brand while some others
34 emphasise the specific construct of personality i.e. just behavioural traits. The former
35 definition allows the inclusion of measurement items that are not behavioural traits (hence the
36 critique that Aaker's measure is not a measure of 'personality' and should be called
37 something else (Azoulay and Kapferer, 2003)). However, this criticism would be more
38 convincing if any dimension of brand personality was dominated by measurement items that
39 are not behavioural traits and none can be argued to be so.
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3 In summary, the data show that 4 dimensions are commonly identified across contexts:
4 Sincerity (honest, genuine and cheerful), Competence (reliable, dependable, efficient),
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6 Excitement (daring, imaginative, up-to-date) and Sophistication (glamorous, charming,
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8 romantic). The first two are compatible with the dimensions emphasised in both signalling
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10 theory and the SCM, while the last two are not. One barrier to concluding that this evidences
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12 universality is that many researchers included the items identified in prior work within their
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14 item pool, making the emergence of similar dimensions in their own work more likely than if
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16 the item pool had been generated solely within their own work. However, the more
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18 fundamental problem is that few authors had started with dimensions defined from theory,
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20 then populated the measure with relevant items, as is advised for scale development
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22 (Churchill, 1979). One exception was the work of Geuens et al. (2009) who aimed to match
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24 their scale to the Big 5 structure and to include only traits in their measure. However the 5
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26 dimensions they identify are still not well aligned to those of the Big 5 and contain very few
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28 (2 or 3) measurement items for each dimension, some of which ('ordinary' and 'simple') are
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30 not behavioural traits. Prestige or Status was only identifiable in 3 studies, although the
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32 coders noted that the two dimensions of Excitement and Sophistication contained elements of
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34 what might have formed a single dimension of that name. For example, Aaker (1997)
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36 includes the item 'upper class' in the dimension labelled as Sophistication, Davies et al.
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38 (2004) include 'prestigious' and 'elitist' as items in their similar dimension, labelled as Chic.
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40 Both scales include the items 'cool' and 'trendy' in their dimensions labelled respectively as
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42 Excitement and Enterprise.
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51 17 of the 21 studies reported using orthogonal rotation of their survey data to identify
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53 individual dimensions (two used non-orthogonal rotation and two did not report their rotation
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55 method), where the implied assumption is that such dimensions are not correlated. On
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3 reflection, it is surprising that orthogonal rotation has been used in most prior work (and
4 without any discussion as to why). Natural phenomena are rarely uncorrelated; leading to the
5 recommendation that non-orthogonal rotation should be the preferred approach in the social
6 sciences, even though this can make identifying factors more difficult (Osborne and Costello,
7 2009). Given that prior work on human perception had suggested that status, competence and
8 warmth/sincerity are correlated, we next explore what happens when the same databases are
9 analysed using non-orthogonal rotation and where the analysis is seeded with key items from
10 theoretically defined dimensions.
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22 **Testing an Alternative Theoretical Basis for Brand Personality**

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26 Rauschnabel et al. (2016) identify 6 dimensions for University brand personality including
27 Prestige (leading, reputable, successful), Sincerity (helpful, trustworthy fair) and
28 Conscientiousness (competent, organised, effective). The dimension they labelled as
29 ‘prestige’ is compatible with the idea of status and ‘conscientiousness’ with competence.
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31 Their factor analysis used non-orthogonal rotation. They show that, while each of their
32 dimensions correlated with one another, that each makes a significant contribution to the
33 prediction of one or more of three outcomes- brand love, alumni support and word of mouth.
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44 We now test the idea that three similar, correlated factors (warmth, competence, and status)
45 could have been identified if non-orthogonal rotation had been used by reanalysing two large
46 data sets. We obtained access to the data of Davies et al. (2004), n=4626 and where 93 items
47 (including the items “warm, competent and prestigious”) were used to assess the brand
48 personality of 15 corporate brands by customers and employees and that of Rojas-Mendez, et
49 al. (2013b) where the items ‘warm, competent and fashionable’ were included among an item
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pool of 209 used in the assessment of 3 countries (n=3607). In neither case was a dimension that could be labelled as status specifically identified in the original analysis. In both cases orthogonal rotation had been used and the dimensions had been defined empirically.

The data for corporate brands (from Davies et al., 2004) were first re-analysed by imposing a three factor solution under non-orthogonal rotation (using direct oblimin with a delta value of -.4). Following Churchill (1979) we purified the trait list by eliminating those whose loadings in the pattern matrix fell below .4, .5 and finally .6 on each factor. At each stage three marker traits (warm, competent, and prestigious) were retained to seed the analysis. The items retained are shown below. Dimension 1 contains mostly items from the dimension labelled as Competence in Table 1, and is compatible with the dimension of the same name in both the SCM and in signalling theory. Dimension 2 contains items previously associated with Sincerity with the addition of one item from the dimension the original scale's authors had labelled as Ruthlessness (but negatively valenced), items compatible with warmth from the SCM and with trustworthiness from signalling theory.

Dimension 1: Competence	Dimension 2: Sincerity	Dimension 3: Status
Confident	Cheerful	Sophisticated
Ambitious	Warm	Exclusive
Competent	Open	Prestigious
Leading	Supportive	Refined
Professional	(Arrogant)	Glamorous
Hardworking	Friendly	

(To be compatible with the first part of our paper, we label this dimension hereafter as Sincerity, rather than warmth). Dimension 3 contains items originally associated with two dimensions labelled as Enterprise and Sophistication (Table 1), items that indicate a brand's status and a dimension compatible with status and prestige from signalling theory. The three dimensions explained 56% of variance in the dataset. No items were retained from

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3 dimensions labelled by the original authors as Informality and Machismo, (which had been
4 under-identified in the original analysis). Cronbach alphas were: status .77; sincerity .82 and
5 competence .85.
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11 Each of the three factors made a unique contribution to the prediction of satisfaction (a 6 item
12 measure in the same database) in a multiple regression, Competence (beta = .412, $p < .001$),
13 Sincerity (beta=.290, $p < .001$) and Status (beta=.145, $p < .001$). Fiske, et al., (2002) imply that,
14 in the context of human to human interaction, status is predicted by a combination of
15 sincerity and competence. The three dimensions from our analysis were significantly
16 correlated, and status could indeed be predicted significantly by competence and sincerity,
17 but the latter could also be predicted by competence and status, and competence in turn by
18 sincerity and status.
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31 To test for the co-existence of similar dimensions in place branding, we re-analysed a
32 database with a total of 3,607 cases obtained from 10 individual surveys of country
33 personality. Data collection had been carried out in seven different countries (China, Puerto
34 Rico, Chile, Saudi Arabia, Canada, Ecuador and Argentina) and in four languages, with three
35 countries used as stimuli, the U.S.A, Canada, and Japan. The starting point was a scale with a
36 total of 209 personality traits specifically applicable to countries (Rojas-Mendez, et al.,
37 2013b). Again following Churchill (1979), we purified the trait list discarding unrelated
38 items. Three items, 'warm', 'competent' and 'sophisticated' were used to seed the factor
39 analysis to test for the three theoretically informed dimensions of warmth, competence and
40 status (the database did not include 'prestigious') and items not loading onto the factors
41 defined by the seeding terms first above 0.5, then 0.6 were eliminated. As before, and to
42 allow the dimensions to correlate, Direct Oblimin was used for data rotation.
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The item “competent” was replaced by “efficient” early in the process when it became clear that no coherent factor was emerging and that the former item loaded too heavily on another factor. The items for the three dimensions achieved using a delta of .3 are shown below:

Sincerity	Competence	Status
Trustworthy	Enterprising	Posh
Sincere	Future oriented	Sophisticated
Honest	Competitive	Fashionable
Caring	Confident	Elegant
Warm	Efficient	

The alpha values for the three dimensions were: Sincerity .86, Competence .75 and Status .64, the value for the last being lower than the normally acceptable threshold, **despite Status being clearly relevant to place branding**. The total variance extracted was 56.4%. The dimensions correlated significantly and again each dimension could be predicted by the other two. Each of the three dimensions made a significant and independent contribution to the prediction of four DV’s included in the database (Table 2), purchase intention of items made in the country (4 items); travel intentions to the country (5 items); intention to develop ties with the country (5 items) and overall attitude towards the country (4 items), all measures were taken from Rojas-Méndez, Murphy, and Papadopoulos (2013).

Take in Table 2

In summary, reanalysing the original data from two quite different and independently derived data sets showed support for a somewhat different configuration of dimensions from those originally identified by both groups of original authors. Each dimension this time is grounded in theory as to why humans might evaluate a brand. In both cases, non-orthogonal rotation was used allowing the dimensions to co-vary, as implied by the same theory. Two issues

remained. First, the branded entities we had considered were well known and prominent.

Second, the brands and countries would not necessarily be seen as low in status.

Our final study aimed to consider the three dimensions of sincerity, competence, and status in a different context, that of the employer brand, a context where we could include data on brands with a wide range of status. We also wished to ensure that our data were from a large sample of branded entities and to include more items to populate each dimension than were available in the two existing databases we had re-analysed. 58 items were drawn from prior work to populate the three dimensions of sincerity, competence, and status and 113 respondents were asked to evaluate their employers. Respondents were given 15 types of organisation to select from to describe their employer and no one type was selected by more than 12 respondents, the top three types being telecommunications (12), education (11) and manufacturing (10). As before a three dimensional solution using Direct Oblimin was seeded with three items: warm, competent and prestigious. The most appropriate 5 items were retained in the final solution where the three dimensions explained 72.37% of the data variance were:

Sincerity	Competence	Status
Warm	Competent	Prestigious
Friendly	Efficient	Refined
Pleasant	Effective	Elegant
Agreeable	Confident	Sophisticated
Cheerful	Professional	Glamorous

The alphas for each dimension were: Sincerity .92, Competence .89 and Status .86. The AVE figures were Sincerity .72, Competence .64, and Status .55, each above the 0.5 cut-off recommended by Fornell and Larcker (1981). This time Status was predicted by Sincerity ($t=3.76$, $p<.000$) but not by Competence ($t=.868$, $p=.387$). High status organisations are then

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3 not necessarily such because they are seen as both warm and competent. We tested the
4 relative ability of the three dimensions to predict a number of dependent variables (DV's)
5 included in the survey, satisfaction (4 measurement items taken from Davies et al., 2004),
6 engagement (9 items taken from Soane, et al. (2012) and self-congruence (4 items from
7 Poddar, et al., 2009).

13 Take in Table 3

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15 For the first two DV's, status did not make a significant, independent contribution in
16 predicting them, but for self-image congruence the contribution from status was significant
17 and as high or higher than that for sincerity and competence (Table 3). Earlier we noted a
18 similar finding in the work of Rauschnabel et al. (2016). Each of the three dimensions is then
19 capable of making a useful and independent contribution to an understanding of relevant
20 outcomes.
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31 Discussion and Conclusions

32 The theoretical underpinning for Brand Personality

33 Brand personality has been criticised for a lack of theoretical underpinning (Austin, et al.,
34 2003; Berens and van Riel, 2004). Scale development should ideally begin with a
35 theoretically informed understanding of the construct to be measured (Churchill, 1979), and
36 brand personality measures have been, in the main, derived without such underpinning.
37 However human personality has been frequently cited as the theory most relevant to brand
38 personality. We have challenged that view and identified a number of concerns, most notably
39 that the individual dimensions of each construct with similar labels are far from similar in
40 reality and that the Big 5 human personality framework in itself cannot be regarded as a
41 theory, as it was derived from the data it is supposed to explain and is therefore not
42 independent of what it is meant to explain.
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5 Instead, we propose signalling theory (Spence, 1973; Connelly, et al., 2011) as more relevant
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7 because it explains how companies come to edit and shape their communication and to signal
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9 only specific aspects of a brand, because they find they work for them in the marketplace.
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11 Humans, as customers or employees, benefit from such signals as they can use them in
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13 constructing or maintaining their own self-image and in promoting that to others. The theory
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15 is also independent of the brand personality construct. Work within this perspective identifies
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17 a number of signals from companies to the market or between humans that reflect commonly
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19 identified, individual dimensions of brand personality including those we have labelled as
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21 Sincerity (Erdem and Swait, 1998; Wang, et al., 2004) and Competence (Spence
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23 1973; Fombrun and Shanley, 1990; Griskevicius, 2007). However the same literature often
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25 emphasises the signalling of status (Fehr and Fischbacher, 2003 Griskevicius, et al., 2007
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27 Nelissen and Meijers, 2011) and while status is relevant to Aaker's original definition of
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29 brand personality (the set of human characteristics associated with a brand) it was not clearly
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31 identified in early scale development work.
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37 Signalling theory in itself does not define which signals are most relevant to brands and for
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39 this we used a second theory, that of the stereotype content model (Fiske, et al., 2002; 2007)
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41 which specifies warmth/sincerity, competence and status as fundamental to humans and
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43 which has been extended to corporate and brand imagery (Aaker, et al., 2010; Cuddy, et al.,
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45 2009; Kervyn, et al., 2012).
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50 If brand personality measures had been less empirically driven or had such work started with
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52 a theoretically informed understanding of what its dimensionality might be, and/or if non-
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orthogonal rotation had been used to identify dimensions, then, as we have demonstrated, status is likely to have been more widely recognised.

The Dimensionality of Brand Personality

Our review of 23 measures of brand personality (Table 1) showed that sincerity and competence are two of the most frequently identified dimensions in prior work, but that status can only be identified in more recent studies and then in contexts where status might be more relevant. The review also showed that ever more dimensions of brand personality are being identified, in total 16 at the time of writing. Both culturally specific (Aaker, et al., 2001; Sung and Tinkham, 2005; Muniz and Marchetti, 2012) and entity specific dimensions can exist (Ekinci and Hosany, 2006; Murphy, et al., 2007). We use this idea to propose that three dimensions, sincerity, competence, and status, be regarded as universally relevant with one or more of the 13 other dimensions from prior work being relevant to a specific context. The model shown in Figure 1 illustrates the structure being proposed.

Take in Figure 1 here

Some previously identified dimensions may be facets of other, higher-order dimensions. (Our coding exercise identified the possibility that Sophistication and Excitement could be facets of Status). However such thinking does not totally explain the existence of some of the dimensions identified in prior work. Marketers will also find new aspects of brand imagery to differentiate their offerings and many of these will be relevant only to specific markets, cultures or contexts or even time frames. Human personality, as a theory, does not predict a large number of dimensions or predict that further dimensions might emerge. Instead, it identifies five specific dimensions.

Implications for practice

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3 Our work has implications for practitioners, not only in how brand imagery might be
4 measured but also in the marketing of branded entities. If, as we argue from theory,
5 individuals automatically assess a brand for its sincerity, competence, and status because of
6 fundamental human needs, then marketers should ensure that they provide signals to their
7 marketplace to position their brands on each dimension. If they fail to do so, potential
8 consumers and employees will inevitably use whatever information they can to evaluate a
9 brand on each dimension.
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20 In comparing prior work when constructing Table 1, we learnt to ignore the labels given to
21 individual dimensions by authors and to focus instead on the actual measurement items being
22 reported. When these were compared between papers, it became clear that apparently
23 different dimensions (because they had been labelled differently) were in fact quite similar.
24 Translating scales into another language can create similar issues if the meaning of the
25 measurement item within its context is not translated. The items chosen to measure each
26 dimension can, indeed should, be chosen to be commensurate with both the branded entities
27 being assessed and the language and culture of respondents. These items can differ, as we
28 evidence, yet still measure the same underlying dimension, something widely recognised in
29 human personality measures, with various scales (the NEO PI-R, the FFMRF, and the BFI³)
30 each measuring the same Big 5 dimensions but using different measurement items.
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46 **Implications for Further Work**

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48 In this paper we do not propose a new measure of brand personality, rather we emphasise the
49 relevance, for all such measures, of two commonly identified dimensions (sincerity and
50 competence) and one that is less commonly identified (status), as all three have strong
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55 ³ The NEO PI-R is an acronym for the revised version of the Neuroticism-Extraversion-Openness Personality
56 Inventory; the FFMRF for the Five-Factor Model Rating Form; and the BFI for the Big Five Inventory.
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3 theoretical support. We demonstrate that each can make a unique contribution to explaining a
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5 number of dependent variables.
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9 It would be useful then to see whether other, existing data pools used to create personality
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11 scales can be re-analysed to identify the dimension of status, although unless the data set
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13 contains items comparable with the idea of status, this may prove problematic. **Future work**
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15 **on developing brand personality measures should consider including descriptive items or**
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17 **traits that are compatible with the three dimensions of sincerity, competence, and status.**
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19 **There is, we believe, a danger in gathering items that might, purely by chance, identify what**
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21 **might appear to be a new dimension. Alternatively, new dimensions can be based upon**
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23 **theory that is relevant to the context being considered, and/or from preliminary work**
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25 **demonstrating the relevance of the dimension.**
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31 A multi-dimensional scale to measure brand imagery is of greater value if individual
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33 dimensions contribute uniquely to understanding and explaining the outcomes of successful
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35 or unsuccessful brand management. Few of the papers we reviewed included a justification of
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37 their measures by demonstrating their potential to predict or explain typical DV's; fewer still
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39 that each dimension could make a unique contribution in the presence of other dimensions.
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44 We lack a complete understanding of the antecedents of most brand personality dimensions.
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46 While we have used theory to explain why three specific dimensions are relevant to both the
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48 marketing and purchasing of brands, and have similarly explained how signalling any
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50 dimension can become relevant, we have not explained how marketers and consumers come
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52 to concur on other dimensions. Work within semiotics emphasises that signs (here we use the
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54 word signal) are generated in the producer's discourse about the product but that the
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3 consumer evaluates this against a semiotic system (Nöth, 1988) while a co-creationist
4 perspective sees the consumer as more proactive in creating meaning around a brand (von
5 Wallpach, 2017).
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11 Views differ markedly as to whether brand personality is (just) a projective technique used to
12 measure intangible brand imagery (Keller, 1998), in other words, that brand personality and
13 (intangible) brand image are much the same, or whether brand personality and brand image
14 are separate, if related, constructs (Hosany, et al., 2006). A brand personality scale is far from
15 being a qualitative, projective technique (Hofstede, et al., 2007) as it imposes a defined
16 structure on the respondent; one close to asking directly for a response to specific attributes.
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18 Compare asking a respondent, as is common in a brand personality questionnaire, “If brand X
19 came to life as a human being, would s/he be trustworthy?” with “How strongly do you agree
20 that brand X is trustworthy?” Are two separate things being measured here or is the device
21 used in the first version of the question merely enabling the respondent to answer the same
22 question? Being seen as trustworthy is a central element of brand image, but can it
23 simultaneously be part of brand personality? A consensus is then needed as to whether brand
24 image defined as the direct measurement of intangible attributes and brand personality are the
25 same or different. Future work should address this question and a good starting point would
26 be to compare the use of a personified measure with its direct equivalent.
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46 Is ‘personality’ the most appropriate label for the scales we have been discussing or is it
47 getting in the way of progress? For example, Avis, et al. (2012) showed that even rocks,
48 items with questionable humanistic associations, can be assessed and differentiated using a
49 brand personality scale. Better still if all such measures could be regarded as those for
50 intangible associations, but ones using a personified approach to questioning.
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5 If a consensus is reached among researchers as to the dimensionality of brand personality,
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7 this could have a similarly invigorating impact that the advent of the Big 5 human personality
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9 factors made on research into links between human personality and its consequences. But
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11 unless there is agreement on what are truly generic dimensions, research using one measure
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13 may not be comparable with that using another. It is highly unlikely that agreement will
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15 emerge at the level of the measurement items populating individual dimensions, but this is
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17 irrelevant as these can, indeed will, need to vary when researching different types of entity
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19 and within different contexts, due to the emic and etic issues we have discussed.
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Table (1) The dimensions of entity brand personality in prior work

Dimensions (and typical items)	Study Reference Number																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Sincerity (honest, genuine, cheerful)	X	X	X		X	X	X	X	X	X	X	X	X		X	X	?	X	X	?	X
Competence (reliable, dependable, efficient)	X		X	X	X	X	X		X	X	X		X	X	X	?	X		X	X	
Excitement (daring, imaginative, up-to-date)	X	X	X	X	X	X	X		X	X	X	?	X	X	X	?	X	X	X	X	X
Sophistication (glamorous, charming, romantic)	X	X	X		X	?	X	X		X		?				X	X			X	
Ruggedness (tough, strong, rugged)	X			X	?	?		X						?							
Ruthlessness (controlling, aggressive)					X				X	?		?		X				?			
Thrift (poor, sloppy, low class)		X				X															
Peacefulness (gentle, mild, peaceful)		X	X	X										X							X
Unpleasant (annoying, irritating, outmoded)				X			X						X								
Simplicity (ordinary, simple)					?							X									
Sensitivity (delicate, sensitive, romantic)							?										X				
Conformity (religious, spiritual, traditionalist)										X											
Prestige (reputable, successful)																			X	X	X
Cosmopolitan (international, cosmopolitan)																			X		
Materialism (selfish, materialistic, pretentious)																				X	
Conspicuousness (special, extravagant striking)																					X

X indicates that the dimension is apparent in the study, ? that it may be present and a blank that it was not present

Studies: 1 Aaker (1997); 2 Aaker et al. (2001); 3 Aaker et al. (2001); 4 Smit et al. 2002; 5 Davies et al. (2004); 6 Slaughter et al. (2004); 7 d'Astous and Levesque (2003); 8 Venable et al. (2005); 9 Bosnjak et al. (2007); 10 d'Astous and Boujbel (2007); 11 Milas and Mlačić (2007); 12 Geuens et al. (2009); 13 Chen and Rodgers (2006); 14 Kaplan et al. (2010); 15 Herbst and Merz (2011); 16 Das et al. (2012); 17 Muniz and Marchetti (2012); 18 Rojas-Méndez et al. (2013); 19 Rauschnabel et al. (2016); 20 Sung et al. (2015); 21 Willems et al (2011).

Table (2) The relative ability of Sincerity, Competence and Status to Predict 4 Outcomes

DV	Sincerity	Competence	Status	Adjusted R ²
Product Purchase Intentions	13.6(.000)	19.5 (.000)	2.06 (.039)	.234 (.000)
Travel Intentions	19.9(.000)	18.8 (.000)	5.13 (.000)	.306(.000)
Intention to develop ties	22.9(.000)	13.9(.003)	7.78 (.000)	.311(.000)
Overall Attitude	36.5(.000)	13.0(.000)	5.71(.000)	.425(.000)

t values are given, with significance in parentheses.

Table (3) The relative ability of Sincerity, Competence and Status to Predict 3 Outcomes

DV	Sincerity	Competence	Status	Adjusted R ²
Satisfaction	2.80(.006)	4.46 (.000)	0.740 (.460)	.487 (.000)
Engagement	3.16(.002)	2.96 (.004)	0.297 (.770)	.407(.000)
Self-image congruence	5.01(.000)	3.05(.003)	3.83 (.000)	.637(.000)

t values are given, with significance in parentheses.

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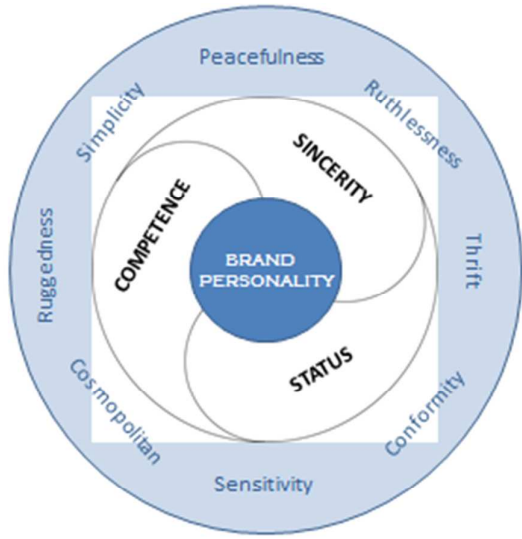


Figure 1 A Model of Brand Personality

Journal of Product & Brand Management

Our thanks to all three reviewers for taking the time to read through our paper again. Particular thanks for the many constructive suggestions which have been very helpful in improving our paper. Our responses are as follows:

Reviewer 1

In his/her first review the claim was made that we were focusing on opinion rather than reporting the findings of prior work. We asked for clarification and this time we are now told:

1) For example (putting it in question form even though I have read most of the papers), the paper states at the end of this section:

"Brand personality scales have been criticised for a perceived lack of a clear theoretical underpinning (Austin, et al., 2003; Berens and van Riel, 2004; Clardy, 2012)" are these examples of the criticisms? Why were they critical? Why did they think it was absent of any theory? Was this what they studied.

We cited these authors because all had claimed that there was no clear theoretical underpinning for brand personality measures and because of this they were critical of their use. It is impossible for us to add anything further which is relevant to our paper.

2) and because many measurement items (such as masculine and feminine) do not reflect 'personality' (Azoulay and Kapferer, 2003)." They studied it and found that they don't? They didn't think gender identity was a personality? What does this have to do with your presentation?

Masculine and feminine have both been included as measurement items in brand personality scales. Azoulay and Kapferer argue that this is wrong as such items are not measures of personality. Aaker's conceptualisation of the construct on the other hand makes it clear that such items are fine. Again it is impossible for us to add anything further.

The reviewer then repeats his/her original challenges, which we responded to in our first resubmission.

We disagree with the reviewer's perspective on our paper and have, consequently, have been unable to make any corresponding changes to our paper.

Reviewer 2

The reviewer has kindly gone through the paper and corrected our typos. We apologise for missing these and for the work we caused. Two issues remain:

1) I left the sentence uncorrected on page 27 that starts Future studies...that meanders through the paragraph. I couldn't understand it well enough to correct it.

We agree the sentence is overly long and complex and have rewritten that section which now reads:

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2
3
4 Future work on developing brand personality measures should consider including
5 descriptive items or traits that are compatible with the three dimensions of sincerity,
6 competence and status. There is, we believe, a danger in gathering items that might, purely
7 by chance, identify what might appear to be a new dimension. Instead new dimensions
8 should be based upon theory that is relevant to the context being considered, and/or from
9 preliminary work demonstrating the relevance of the dimension.
10

11
12 2) *the authors do not explain FFMRF and BFI - what are they?*
13

14 We have added a footnote explaining each on page 26:
15

16 The NEO PI-R is an acronym for the revised version of the Neuroticism-Extraversion-
17 Openness Personality Inventory; the FFMRF for the Five-Factor Model Rating Form; and the
18 BFI for the Big Five Inventory.
19

20 21 **Reviewer 3** 22

23 1) *I'm still not sure what the extended exploration of the Big 5 personality trait model*
24 *on pages 7-9 of the paper actually accomplishes in context of this manuscript.*
25

26 We have re-read this section but still believe it is important. For those unfamiliar with the
27 Big 5 we illustrate what they are and more importantly how they are measured. We need to
28 make the point that while the Five Factor model is often referred to as a theory, it was
29 empirically derived and not independent of what it was trying to underpin. Even more
30 important we need to emphasise that while many claim or imply that, for example,
31 Agreeableness in human personality is equivalent to Sincerity/Agreeableness in brand
32 personality, the two differ markedly. There is no theoretical reason why there should be 5
33 dimensions in either type of measure let alone ones which are orthogonal. These points are
34 essential to our paper. Other points are included more to support our later arguments, for
35 example that similar issues dogged the development of human personality measures.
36
37

38
39 2) *"Status" sort of pops in unannounced, gets about half a page of discussion, and feels*
40 *very disconnected from the well-supported discussions of Competence and Warmth*
41

42 We have re-read the main sections of the paper and tried to reinforce the 'status' of 'status'
43 in our work. We highlight the initial sections in the revised paper.
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46 3) *it is unclear how "status" is a personality dimension per se, rather than a brand*
47 *dimension... be more explicit as to your conceptual definition of what the Brand*
48 *Personality construct is further up front in the paper*
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50 Our definition of brand personality is that of Aaker (1997) *the set of human characteristics*
51 *associated with a brand.* Consequently we do not subscribe to the view that brand
52 personality measures should consist only of personality traits. Status is not a human
53 personality trait but it is a human characteristic (Aaker included 'upper class' as one of her
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measurement items). We have added a similar sentence to the paper to clarify this point and also clarified that we adopted Aaker's definition (on page 3).

- 4) *when you say that the 3 constructs offer unique contributions in a multiple regression, there is a spectre of multicollinearity due to the non-orthogonal relation allowing the constructs to potentially be highly correlated. How do you establish the validity of the individual betas?*

The statistical significance of the beta's is given as a part of the output analysis and refers to the significant (or not) addition to explaining the DV from each IV. There is no multicollinearity issue as we are testing the contribution of, for example, Status in the presence of (i.e. controlling for the contribution of) the other two dimensions. We have repeated the point on page 23 that this is similar to the findings of Rauschnabel et al (we noted this earlier on page 18)

- 5) *typos (see above)*

- 6) *Be a little careful when you claim that "gender" is not a personality trait (pg6) given the current nature of discussions on the topic.*

Good point. We have deleted specific mentions of gender

- 7) *Pg14: when you say "coders", are you referring to the author(s) of the paper, i.e. yourselves?*

Good point. We have clarified that the second coder was independent of the authors (on page 14).

- 8) *The empirical support for Status as a dimension on par with the other two is not a slam-dunk from your analysis. It works fine in the first re-analysis, but the Cronbach's is rather low in the second re-analysis, and then in the employer brand study the status dimension only makes an independent predictive contribution to 1 of the 3 DVs. Is this really strong enough evidence to argue that Status should always be measured and included when exploring brand personality, even if it fits prior theory?*

We should have added the point that status is relevant to place branding (despite the low alpha from our data) and have now done so on page 21. We agree that status is unlikely to be as important compared with other dimensions but would point out its relevance in two of the published studies we review. We believe we have established its place in theory and consequently the onus is on researchers to argue why it is not relevant to their context.

- 9) *The Brand Personality Spiral (Figure 1) feels superfluous and unnecessary.*

We think it helps summarise our thinking and could be useful to those writing Marketing text books.

- 10) *In many ways, your stated contribution intention in your response to my comments is perhaps the strongest, and most succinct argument for contribution and positioning you've given. I.e. "The purpose of our analyses are different. Our paper has four empirical components, the first makes the point that there is a large number of 'new' dimensions being identified in the literature but that many of these contain measurement items which are similar to those used in previous scales to identify dimensions which were given different labels. We then show that a more*

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theoretically based, less empirically driven approach and the use of non-orthogonal rotation could have identified status alongside similarly theoretically supported dimensions (which are also two of the most commonly identified dimensions in prior work).” Can you basically surface that comment, at that level of brevity, earlier or more directly in the paper?

We agree and we’ve revisited our introduction, making changes to page 2.

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