# Effects of transparent brand communication on perceived brand authenticity and consumer responses

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#### Abstract

Purpose – This study aims to understand the effects of brands' transparent communication (i.e. production transparency and cost transparency) on consumers' perceptions of a brand's perceived transparency and authenticity, as well as how such perceptions impact consumers' attitude, trust and behavioral intentions.

Design/methodology/approach – Two between-participants factorial design experiments (n = 176 for Study 1 and n = 169 for Study 2) were conducted to examine consumers' responses to a brand's cost transparency and production transparency.

Findings – The results revealed that transparency in the focal brand's communication of production and cost would increase consumers' perceptions of the brand's transparency and authenticity because of its perceived information sensitivity. Such positive effects were found to similarly impact consumers' attitude, trust and behavioral intention toward the brand.

Practical implications – The results point to the importance of brand transparency in marketing communication, specifically as it pertains to the influence that the inclusion of transparent cost and production information can have on consumers' perceptions of authenticity, trust and attitude, as well as how these perceptions translate into behavioral intention.

Originality/value – To the best of the authors' knowledge, this study is among the first to explore the differences between production transparency and cost transparency in influencing consumer responses and the underlying mechanisms. The findings also expand to the literature on brand transparency and brand authenticity.

Keywords Brand trust, Brand authenticity, Cost transparency, Brand relationships, Brand transparency, Production transparency, Consumer attitude

Paper type Research paper

#### Introduction

The idea of openness – generally cited in terms of "transparency," a buzzword frequently used for pitching digital campaigns (Wilms, 2011) – has increased in usage since the late 20th century (Schnackenberg and Tomlinson, 2016). Transparency has been defined as "the extent to which an entity reveals information about its decision process, procedures, functioning and performance" (Grimmelikhuijsen and Meijer, 2014, p. 139). As a strategy, such signifiers have been shown to increase stakeholder trust (Parris *et al.*, 2016), enhance consumer understanding and indicate a brand's responsibility for its practices (Yoo and Jeong, 2014). The impact of social acceptance and perceived corporate social responsibility (CSR) arising from perceived brand transparency translates into commercial environments with credible and transparent principles that can drive purchase intention and

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increase customer bases (Connelly et al., 2011; Lee et al., 2005).

By the same token, "authenticity," as a core component of brand image (Ballantyne et al., 2006), is "one of the cornerstones of contemporary marketing" (Brown et al., 2003) that often relates to the success of a brand's identity (Beverland, 2005; Kapferer, 2004). Indeed, global issues, such as financial, political and environmental instability, have led to increased demand for authentic engagement in daily life, including engagements between consumers and products (Brown et al., 2003, p. 21). As a response to this demand, brand transparency can be evaluated based on the type of information and the level of detail revealed (Cambier and Poncin, Grimmelikhuijsen and Meijer, 2014). However, authenticity is more of a "master concept" that integrates various desirable qualities that can be applied to brands, e.g. continuity, originality, reliability and naturalness (Bruhn et al., 2012); credibility, integrity and



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symbolism (Morhart et al., 2015); and originality and genuineness (Akbar and Wymer, 2017).

Despite its rising importance, existing literature in brand communication has yet to explore the relationship between brand transparency and brand authenticity. To address this gap, this study draws on signaling theory (Spence, 1974) to investigate this relationship and analyzes information type (i.e. production vs cost) to determine consumers' perceptions of a brand's transparency and authenticity. Ultimately, this study aims to examine if increases in perception of transparency and authenticity help achieve positive consumer attitudes, trust and behavioral intentions toward a brand.

The purpose of this study is twofold. First, it intends to investigate which type of transparent information disclosure (i.e. production and cost) results in higher perceived brand transparency to analyze the underlying mechanism. Second, it intends to examine how perceived transparency further contributes to consumers' perceptions of a brand's perceived authenticity and their attitudinal and behavioral responses toward the brand. The findings of the current study advance existing literature on brand transparency and brand authenticity and provide actionable insights for companies to use in building an effective brand image.

#### Literature review

#### Communicating brand transparency

The concept of transparency is a trending buzzword in today's media and business realms because of today's societal and economic environment. In the context of branding, scholars have taken various approaches to conceptualize and operationalize brand transparency. For instance, Yoo and Jeong (2014) defined transparency as:

[...] consumers' perceived levels of a brand's strategic communication effort to make information available – whether positive or negative in nature – to enhance their understanding and make a brand accountable for marketing practices.

Meanwhile, Brandão et al. (2018) explained transparency as a brand's effort to provide consumers with clear and relevant information regarding their business practices and products. Schnackenberg and Tomlinson (2016, p. 12) defined it as "an evaluation of the quality of the information provided by the organization," emphasizing information disclosure, clarity and accuracy. Fundamentally, what these scholars share regarding their conceptualizations of brand transparency is the core value of brand openness and accountability (Parris et al., 2016; Yoo and Jeong, 2014).

Prior studies have revealed that when consumers perceive a brand as transparent, this perception tends to result in consumers' trust-building as well as positive consumer attitudes and behavioral intentions toward the brand (Kang and Hustvedt, 2014a, 2014b; Kim and Kim, 2016; Reynolds and Yuthas, 2008). Lin *et al.* (2017) argued that when brands communicate transparently to consumers, consumers' awareness of the brand's initiatives and value increases, such as those regarding the ethical use of labor, sustainable manufacturing processes and social responsibility initiatives. Moreover, in recognizing and understanding a brand's efforts in these regards, consumers are likely to appreciate the brand

more than before, thus leading to growth in trust, positive attitudes and behavioral intentions (Parris *et al.*, 2016).

In building perceived transparency, it is essential for brands to create appropriate strategies for communicating their transparency value to consumers (Kang and Hustvedt, 2014a; Parris et al., 2016). Extant studies investigating brand transparency have primarily contextualized this within CSR, emphasizing a brand's ethical conduct in production processes. These include practices such as the ethical use of labor and materials and sustainable production efforts for environment protection (Kang and Hustvedt, 2014a, 2014b; Kim and Kim, 2016; Reynolds and Yuthas, 2008). As such, prior studies have mainly focused on production transparency, which is defined in this study as the disclosure of a product's manufacturing process, which includes the source of raw materials and related operation information. However, beyond production transparency, other types of information can also be disclosed to help decrease information asymmetry and inequalities in the consumer marketplace (VanSandt and Sud, 2012). For example, McKay (2008) and Tapscott and Ticoll (2003) have suggested transparency is more than merely the full disclosure of information. It is about disclosing crucial information that consumers want to know and receive from brands. Thus, this study aims to understand how the communicated transparency of a product's cost can impact consumers' perceptions of a brand's perceived transparency.

The term "cost transparency," initially investigated in the context of supplier-company communication (Lamming et al., 2001), is a relatively new concept and practice in consumercompany communications. Mohan et al. (2020, p. 1) have defined it as "the practice of revealing the unit costs of production to consumers." In a series of pioneering field and lab studies, they found that including product cost information resulted in more brand trust and purchase intention. Cost transparency in this regard differs from how it has been traditionally known because price transparency usually refers to a clear overall understanding of the expected quoted charges of a product/service from a company/brand, such as designated markup and discounted price. At the same time, cost transparency exposes unit costs information such as costs for raw materials, labor and transportation (Ferguson, 2014; Matzler et al., 2006). The current study thus posits that cost transparency is a relatively higher level of information disclosure. Such a level of information disclosure breaks conventional business practices by revealing product and brand information that is usually hidden, which can result in higher perceived brand transparency because of its information criticalness and sensitivity (McKay, 2008; Tapscott and Ticoll, 2003).

Following the literature on disclosure sensitivity, information sensitivity has been defined as the potential loss associated with the disclosure of information that is risky for the discloser to reveal (Moon, 2000; Mothersbaugh *et al.*, 2012). Mohan *et al.* (2020) compared the perceived sensitivity of information across different types of transparency (e.g. operation transparency, cost transparency and price transparency) and found that cost information was perceived to be the most sensitive of all the transparencies. However, their studies did not directly examine the mediating role of perceived sensitivity of information between the type of information revealed and

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consumer evaluations. Therefore, the current study builds on their findings by examining whether a difference exists between cost transparency and production transparency in informing consumers' perceptions of brand transparency and whether information sensitivity will be a significant mediator of such a difference. Such an exploration is valuable to the existing literature on brand transparency given its pioneering approach in making these particular comparisons. Based on the above discussion, it is proposed that:

H1. The disclosure of cost transparency (vs production transparency and none) will be perceived as more transparent because of higher perceived information sensitivity.

#### Brand authenticity

Authenticity originated from the Greek word athentikos, which emphasized the sense of truthfulness (Cappannelli and Cappannelli, 2004). Modern literature has claimed the concept of "authenticity" to be "one of the cornerstones of contemporary marketing" (Brown et al., 2003, p. 21) because it contributes principal positive value to a brand's image (Ballantyne et al., 2006; Keller, 1998) and identity (Beverland, 2005; Kapferer, 2004). Authentic brands often distinguish themselves from others through their sincerity, stability, endurance, consistency, credibility, originality, truthfulness, genuineness, realness and dissociation from commercial motives (Ballantyne et al., 2006; Beverland, 2006; Bruhn et al., 2012; Grayson and Martinec, 2004; Holt, 2002).

Recent studies have primarily perceived brand authenticity to be more of a subjective evaluation by consumers based on their interpretation, knowledge, interest and personal tastes (Grazian, 2003; Leigh et al., 2006; Napoli et al., 2014). As a result, some scholars have developed several definitions and operationalized that regarding essential components of brand authenticity. For example, Bruhn et al. (2012, p. 572) defined brand authenticity as a construct that centers on four dimensions: continuity, originality, reliability and naturalness. While Morhart et al. (2015) agree on the importance of continuity, they differ in that they see brand authenticity as the degree to which brands can practice credibility, integrity and symbolism (p. 203). Akbar and Wymer (2017) further refined the scale proposed by earlier scholars by suggesting a two- dimensional conceptualization featuring only originality and genuineness. The current study adopts Bruhn et al.'s (2012) approach to reflect the construct of authenticity as determined by its comprehensiveness, inclusivity and relevance to other proposed operationalizations.

Drawing on signaling theory (Spence, 1974), other studies have suggested that a brand's marketing communications have a substantial impact on consumers' perceptions of the brand's authenticity. For instance, consumers can communicate evaluations of the brand through diagnostic information and cues provided by the brand's marketing communication (Grazian, 2003). Specifically, when a brand is transparent about its production and corporation activities, such transparency signals an invitation to consumers to participate in the brand's decision-making processes and can help consumers feel they are witnesses of the company's claims and actions. In

this regard, Cambier and Poncin (2020) revealed that a brand's transparency, i.e. the level of information a brand reveals about its internal processes and performances (Grimmelikhuijsen and Meijer, 2014), can offer consumers credible and persuasive signals for making judgments about a brand's integrity. As a brand's integrity is an essential construct of its perceived authenticity, we hypothesize that, through a brand's transparent presentation of its production and its product costs, consumers perceive the brand to be more authentic.

H2. Brand transparency will positively contribute to consumers' perceptions of the brand's authenticity.

# Consumer responses

Brand trust

Trust is a critical component in any relationship, especially so in the relationship between brand and consumer (Kang and Hustvedt, 2014a; Moorman *et al.*, 1993; Morgan and Hunt, 1994; Sirdeshmukh *et al.*, 2002). Brand trust refers to customers' willingness to rely on a brand in conditions of uncertainty or risk based on their beliefs and evaluation of the brand (Becerra and Korgaonkar, 2011). For trust to occur, there must be confidence in "the exchange partner's reliability and integrity" (Morgan and Hunt, 1994, p. 23) and "safety and honesty" (Chaudhuri and Holbrook, 2001, p. 82). The development of such trust in brand–consumer relationships can result from corporate and financial transparency, which in turn can influence consumers' ability to perceive the brand as authentic (Anderberg and Morris, 2006) or as performing a virtuous act (Zak *et al.*, 2005).

A brand's ability to remain faithful to and open about its established identity, coupled with the truthfulness of a brand's leader, are all factors that can foster a trusting environment. For instance, as previously mentioned, Anderberg and Morris (2006) found that brands can foster trust by being transparent about their corporate and financial dealings. When brands are consistently transparent, it demonstrates to consumers that there is an alignment between a brand's claim and actions. This alignment reinforces consumers' perceptions of the brand's ability to be authentic (Anderberg and Morris, 2006; Djelassi and Decoopman, 2013; Gebauer *et al.*, 2013). Furthermore, transparency can reinforce consumers' perceptions of brand competence, empowerment, resource control and process (Christens *et al.*, 2011; Füller *et al.*, 2009; Zimmerman, 2000).

In general, transparency supports the establishment of brand trust by providing information that alleviates concerns associated with perceived risk, which can arise from uncertainty surrounding the appropriateness of product cost. Transparent pricing can thus help consumers rationalize their decisions about whether or not the cost is in line with what they want to pay and relax their self-interest (Carter and Curry, 2010; Maxwell, 1995). It can also help consumers ascertain adherence to social norms (Heyman and Mellers, 2008) while supporting the construction of trust between company and consumer in the process (Bertini and Gourville, 2012). Opaque pricing typically provides little information about cost distribution and a variety of other production factors. When brands provide information regarding price determination by outlining the costs associated with labor, materials and other

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extraneous costs (Carter and Curry, 2010) or accurate outcome price (Bertini and Gourville, 2012), consumers' perceptions of procedural justice and price fairness have been shown to improve (Carter and Curry, 2010).

#### Attitude and behavioral intentions

Consumers' attitudes toward a brand and their subsequent behavioral intentions are often the result of a brand's communication efforts. Both attitude and behavioral intention reflect consumers' decision-making processes, especially those regarding the tendency toward ethical consumption (Chan, 2001; Marcketti and Shelley, 2009; Pino et al., 2012). A consumer's attitude toward a brand often refers to one's judgment regarding the quality of the brand's work (Thomson et al., 2005); while consumers' behavioral intentions toward brands are often operationalized as purchase intention (Lu et al., 2015) and brand recommendation (Morhart et al., 2015). As previously mentioned, prior studies in brand transparency and brand authenticity have long suggested positive impacts on consumers' brand attitudes and behavioral intentions. For example, the use of transparent messaging surrounding CSR efforts, especially when associated with apparel marketing, has been shown to positively impact purchase intention (Hyllegard et al., 2012; Yan et al., 2010). Similarly, the use of a transparent revenue breakdown of a product can lead to higher purchase intentions in consumers who tend to purchase high-priced products (Carter and Curry, 2010). Given this, it is proposed that:

- H3. Brand transparency will positively relate to consumers'(a) trust, (b) attitude and (c) behavioral intentions toward the brand.
- H4. Brand authenticity will positively relate to consumers' (a) trust, (b) attitude and (c) behavioral intentions toward the brand.

Moreover, previous literature has also pointed out the impact of brand authenticity on consumer trust and attitude (Ewing et al., 2012; Fritz et al., 2017; Spiggle et al., 2012), as well as on purchase intentions and recommendation behaviors (Lu et al., 2015; Morhart et al., 2015; Napoli et al., 2014; Spiggle et al., 2012). Components that contribute to brand authenticity and the subsequent ability to generate positive consumer responses include a brand's ability to engage with sincerity, trustworthiness and credibility (Napoli et al., 2014). As the consumers' evaluation of a brand's authenticity is likely to be influenced by the signals sent through transparent brand communication (Spence, 1974), we thus propose that:

H5. Brand authenticity will mediate the positive relationship between brand transparency and consumers' (a) trust,(b) attitude and (c) behavioral intentions toward the brand (Figure 1).

# Method

#### Research design

To build the conditions needed to examine the proposed hypotheses, two online between-participant experiments using both a fictitious brand and a real brand were conducted. The inclusion of both fictitious and real brands can help improve the internal validity and external validity of the study, as the adoption of a fictitious brand can heighten the experimental control and the inclusion of real brand can extend the effects to a real-world situation. Through the manipulation of the presence/absence of production information and cost information, four transparency conditions were created, namely, the control condition (absence of both cost and production information), the production transparency condition (presence of production information and absence of cost information), the cost transparency condition (presence of cost information and absence of production information) and the combined condition (presence of both cost and production information).

#### Stimuli development

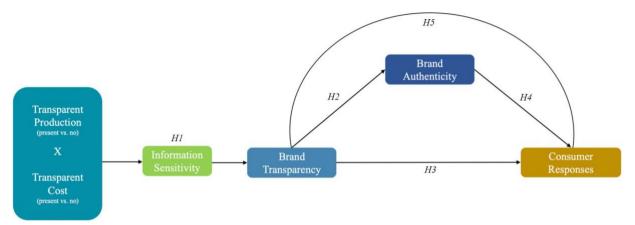
A pre-test was conducted to determine the name of the fictitious brand and the real brand's selection in two studies. Artificial names (e.g. "A\_Tee," "BASIC" and "FAD") for the fictitious brand were generated with the help of the digital tool Namelix. And the real brands were selected from the apparel industry because of its growing reliance on e-commerce sales (eMarketer, 2020). We selected H&M, ZARA, Uniqlo, Muttonhead and  $Wild\ Fang$  because of their similarity in targeted audiences and inclusion of gender-neutral products. Participants (n = 35; 66% male; age range: 18–64 years) were recruited from Amazon Mturk, an online research pool for people to participate in studies in exchange for monetary benefits.

The pre-test results of repeated-measure ANOVA indicated no significant difference of their attitude toward the fictitious names [F(4, 40) = 0.53, p = 0.72] and their familiarity with the fictitious names [F(4, 40) = 1.65, p = 0.18]. Given that participants' attitude toward "A Tee" [M = 4.13, standard error (SE) = 0.23] was the closest to the mean value (M = 4.12, SE = 0.17) and their familiarity with the brand name is also the lowest across all names. Thus, we selected the brand name "A\_Tee" to create the e-commerce website mock-up examples for Study 1. Moreover, in selecting the real brands to be adopted in developing the stimuli for Study 2, results of repeated-measure ANOVA showed no significant difference of participants' attitude toward the brand [F(4, 40) = 2.05, p = 0.11] and significant differences in terms of participants familiarity with the brand [F(4, 40) = 5.63, p < 0.01]. Given that participants' attitude toward the brand "Uniglo" (M = 3.79, SE = 0.27) was the closest to the mean value (M = 3.80, SE = 0.15), and their familiarity of the brand "Uniqlo" (M = 4.38, SE = 0.34) was also the closet toward the mean value (M = 4.19, SE = 0.18), indicating neutral likability and familiarity. Therefore, the brand "Uniqlo" was selected in Study 2 for stimuli development.

To ensure the manipulation success of the different types of transparency (i.e. production transparency and cost transparency), another between-participant experiment pretest of the mock-up examples was conducted with participants from Amazon MTurk (n = 50; 70% male; age range: 22–56 years). For the control condition, information on the ecommerce mock-up page only included a unisex t-shirt product display, price, material and size options, following a normal e-commerce website layout. For the condition of cost transparency, the costs of the materials, the hardware, the

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Figure 1 Proposed research framework



labor, the duties and the transportation fees were provided. For the condition of production transparency, partnered factories and material sourcing information were included. Lastly, for the combined condition, both the cost information and the production information were included. Two-way ANOVA analysis results indicated successful manipulation of production transparency [F(1, 46) = 11.42, p < 0.01] and cost transparency [F(1, 46) = 7.37, p < 0.01], such that the presence (vs absence) of production information resulted in greater production transparency (Mdifference = 1.99, SE = 0.59, p < 0.01) and the presence (vs absence) of cost information resulted in greater cost transparency (Mdifference = 1.78, SE = 0.66, p < 0.01). Therefore, we proceeded with the stimuli design. See Appendix for the stimuli.

# Study 1

#### Measures

# Brand transparency

Brand transparency (Cronbach's a = 0.92) is a scale developed specifically for this study to fit the holistic perception of a brand being transparent about its products. The scale included five seven-point Likert scale items which are developed based on previous literature (Alcaide González et al., 2020; Hustvedt and Kang, 2013; Lin et al., 2017), anchored with "strongly disagree = 1" to "strongly agree = 7": "The brand A\_Tee is transparent in its product information disclosure" (item 1); "The brand A\_Tee is candid in delivering information about its product" (item 2); "The brand A\_Tee provides clear information about its product" (item 3); "The brand A\_Tee is open in communicating its product information" (item 4); and "Overall, the brand A\_Tee provides relevant information to ensure transparency of its product" (item 5).

Reliability and validity tests of the scale were performed using SPSS Amos version 27. As indicated in Table 2, results of the confirmatory factor analysis revealed great factor loadings for all of the five items (ranging from 0.754 to 0.921) with a good model fit (chi-square/df = 1.017, comparative fit index (CFI) = 0.999, goodness of fit index (GFI) = 0.991, adjusted goodness of fit index (AGFI) = 0.965, root mean square error of approximation index (RMSEA) = 0.010 and p of close fit (PCLOSE) = 0.601), which satisfied the acceptable thresholds suggested in previous literature (Hu and Bentler, 1999; MacCallum *et al.*, 2001). In

addition, the composite reliability (CR) of the scale was at 0.915, which is above the threshold of 0.7 (Hair et al., 2011). Thus, we concluded that the scale achieved good reliability. In addition, to examine the convergent validity and discriminant validity of the scale, we calculated the average variance extracted (AVE) and the maximum shared variance (MSV). Results showed that the AVE was at 0.729, which is above the threshold of 0.5 (Malhotra and Dash, 2011). The MSV was at 0.506, which is smaller than the AVE. Thus, we concluded that the scale also reached good convergent validity and discriminant validity (Fornell and Larcker, 1981). Discriminant validity test comparing the scale of brand transparency and brand authenticity also showed acceptable value of heterotrait-monotrait ratio of correlations (HTMT) at 0.81, which is below the threshold of 0.90 (Henseler et al., 2015). We thus concluded the scale was appropriate for the subsequent hypotheses testing.

#### Brand authenticity

Brand authenticity (Cronbach's a = 0.88) was adapted from Bruhn *et al.*'s (2012) scale that included perceived continuity (four items, Cronbach's a = 0.87), originality (four items, Cronbach's a = 0.94), reliability (four items, Cronbach's a = 0.89) and naturalness (three items, Cronbach's a = 0.79). Similarly, this study used a seven-point Likert scale anchored with "strongly disagree =1" to "strongly agree =7." Items measuring perceived continuity addressed statements such as "I think the brand A\_Tee stays true to itself" and items measuring perceived originality used items such as "The brand A\_Tee stands out from other brands." While items measuring perceived reliability used statements such as "The brand A\_Tee's promises are credible." Lastly, the items measuring perceived naturalness addressed items such as "The brand A\_Tee makes a genuine impression."

#### Brand trust

Brand trust (Cronbach's a = 0.87) was measured using five seven-point Likert scale items, anchored with "strongly disagree = 1" to "strongly agree = 7," which were adapted from Erdem and Swait's (2004) scale: "A\_Tee does not pretend to be something it isn't"; "A\_Tee's product claims are believable"; "Over time, my experiences with A\_Tee have led me to expect it to keep its promises, no more and no less";

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"A\_Tee has a name you can trust"; and "A\_Tee delivers what it promises."

#### Attitude toward the brand

Attitude toward the brand (Cronbach's a=0.91) was measured using three seven-point Likert scale items, anchored with "strongly disagree = 1" to "strongly agree = 7," as adapted from Sengupta and Johar's (2002) scale: "I think A\_Tee is a very good brand"; "I think A\_Tee is a very useful brand"; and "My opinion of A\_Tee is very favorable."

#### Behavioral intention

Behavioral intention (Cronbach's a = 0.914) was measured using three seven-point Likert items adapted from Oh *et al.*'s (2019) scale that asked participants' likelihood regarding: "visiting a store/website in the future"; "buying a product"; and "recommending the brand to other people."

#### Perceived sensitivity

Perceived sensitivity was measured using a single-item sevenpoint Likert scale that asked participants to evaluate the brand's communication with the question: "How sensitive is the information disclosed by the brand on this website?" (1 = not at all sensitive; 7 = extremely sensitive).

#### Control variable

Product involvement (Cronbach's a = 0.923) was measured using three seven-point Likert scale items adapted from Strazzieri (1994), anchored with "strongly disagree = 1" to "strongly agree = 7"; "I am interested in this product category"; "This product category counts to me"; and "I give special importance to products in this category."

#### Participants and procedure

A total of 176 valid participants were recruited from *Prolific*, an online consumer panel platform with reliable consumer research (Peer *et al.*, 2017). More than half of the participants were male (68.2%) and non-Hispanic White (81.8%). Their age ranged from 18 to 57 years (M = 26.9, standard deviation = 8), with the majority being Millennials (84.1% from ages 18 to 34). About one-third of the participants worked full time (31.8%), and more than 80% had an annual household income under \$50,000. Column 1 of Table 1 presents the details of this sample.

After consenting to participate in the study, participants were randomly assigned to one of the four experimental conditions. Once they finished reviewing the mock-up page of the brand's e-commerce, they were asked to answer two manipulation check questions (i.e. perceived production transparency and perceived cost transparency). This was followed by the measurement items of perceived sensitivity of the information, brand transparency, brand authenticity, brand attitude, brand trust and behavioral intentions. Demographic information was collected toward the end. Two attention check questions were inserted in the survey. Those who failed the attention check question were directed to the end of the survey and thus not included in the final data analysis.

Table 1 Demographic information

	Study 1		Study 2	
	(n = 176)	(%)	(n = 169)	(%)
Gender				
Male	120	68.2	106	62.7
Female	56	31.8	63	37.3
Acro				
<i>Age</i> 18–24	86	48.9	108	63.9
25–34	62	35.1	42	24.9
35–44	16	9.2	11	6.4
45–54	11	6.2	4	2.4
>55	1	0.6	4	2.4
		0.0	,	2.7
Education	•	0.4	_	
Less than high school	6	3.4	7	4.1
High school graduate	45	25.6	47	27.8
Some college 2-year associate degree	40 7	22.7 4.0	43 10	25.4 5.9
4-year bachelor's degree	41	23.3	36	21.3
Professional/master's degree	37	23.3	23	13.6
Doctoral degree	0	0	3	1.8
•	U	U	3	1.0
Ethnicity/race				
White	144	81.8	146	86.4
Black or African American	5	2.8	3	1.8
Asian	5	2.8	9	5.3
Two or more race/ethnicity	9	5.1	8	4.7
Hispanic	13	7.4	3	1.8
Annual household income				
Less than \$20,000	80	45.5	59	34.9
\$20,000-\$34,999	43	24.4	47	27.8
\$35,000-\$49,999	26	14.8	31	18.3
\$50,000-\$74,999	17	9.7	20	11.8
\$75,000-\$99,999	4	2.3	5	3.0
over \$100,000	6	3.4	7	4.1
Employment				
Fulltime	56	31.8	44	26
Part-time	18	10.2	19	11.2
Unemployed	22	12.5	19	11.2
Student	63	35.8	75	44.4
Retired	0	0	2	1.2
Self-employed	17	9.7	10	5.9

# Data analysis Manipulation check

Prior to data analysis, a manipulation check was performed using two-way ANOVA analyses. Results indicated successful manipulation of the production transparency [F (1, 171) = 51.98, p < 0.001], such that the presence (vs absence) of production information resulted in greater production transparency (Mdifference = 1.97, SE = 0.27, p < 0.001). In addition, the results also showed successful manipulation of cost transparency [F (1, 171) = 80.43, p < 0.001], such that the presence (vs absence) of cost information resulted in greater cost transparency (Mdifference = 2.60, SE = 0.29, p < 0.001). Moreover, pairwise comparisons across the four conditions also revealed that the production transparency condition resulted in greater perceived production transparency than cost

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Table 2 Results of reliability and validity tests for brand transparency

							Model fit indices				
	Factor loadings	CR	AVE	MSV	HTMT	Chi-square/	CFI	GFI	AGFI	RMSEA	PCLOSE
Study 1	(>0.70)	(>0.70)	(>0.50)	( <ave)< th=""><th>(&lt;0.90)</th><th>df (&lt;3)</th><th>(&gt;0.90)</th><th>(&gt;0.95)</th><th>(&gt;0.80)</th><th>(&lt;0.05)</th><th>(&gt;0.05)</th></ave)<>	(<0.90)	df (<3)	(>0.90)	(>0.95)	(>0.80)	(<0.05)	(>0.05)
Item 1	0.862	0.915	0.729	0.506	0.81	1.017	0.999	0.991	0.965	0.010	0.601
Item 2	0.921										
Item 3	0.847										
Item 4	0.753										
Item 5	0.804										
Study 2	Factor loadings	CR	AVE	MSV	HTMT		Model fit indices				
	(>0.70)	(>0.70)	(>0.50)	( <ave)< td=""><td>(&lt; 0.90)</td><td>Chi-square/</td><td>CFI</td><td>GFI</td><td>AGFI</td><td>RMSEA</td><td>PCLOSE</td></ave)<>	(< 0.90)	Chi-square/	CFI	GFI	AGFI	RMSEA	PCLOSE
						df (<3)	(>0.90)	(>0.95)	(>0.80)	(<0.05)	(>0.05)
Item 1	0.846	0.904	0.703	0.563	0.77	1.27	0.999	0.991	0.945	0.040	0.452
Item 2	0.850										
Item 3	0.797										
Item 4	0.850										
Item 5	0.846										

transparency condition (Mdifference = 1.89, SE = 0.38, p < 0.001). And the cost transparency condition was perceived with greater cost transparency than the production transparency condition (Mdifference = 2.35, SE = 0.41, p < 0.001). Therefore, the manipulation was successful.

#### Hypotheses testing

H1 suggested that cost transparency (vs production transparency and no disclosure of information) would be perceived as having higher brand transparency because of its information sensitivity. Therefore, we performed a multicategorical mediation analysis using Model 4 in Hayes (2017) PROCESS macro with 5,000 bootstrap samples. The transparency condition was entered as the independent variable. As there were four transparency conditions, three dummy variables were created using the cost transparency as the reference level. ( $D_1$  indicated the difference between cost transparency, control group.  $D_2$  indicated the difference between cost transparency and production transparency.  $D_3$ indicated the difference between cost transparency and the combined transparency.) In the data, the cost transparency was coded as -1, the control group was coded as 0, the production transparency was coded as 1 and the combined transparency was coded as 2. Brand transparency was entered as the outcome variable, with the perceived information sensitivity as the mediator, and individuals' product involvement as the control variable.

Results showed that individuals' product involvement was not a significant covariate (b = 0.13, SE = 0.07, p = 0.06). When only considering the difference between cost transparency and the control group (i.e.  $D_1$ ), the perceived information sensitivity did not mediate the effect of transparency condition on consumers' perception of the brand's transparency: effect = -0.09, BootSE = 0.09 and  $Bootstrap\ CI_{LL-UL} = -0.29-0.08$ . Furthermore, when only considering the difference between cost transparency and production transparency (i.e.  $D_2$ ), the perceived information sensitivity also did not mediate the effect of transparency condition on consumers' perception of the brand's transparency: effect = -0.04, BootSE = 0.05 and  $Bootstrap\ CI_{LL-UL} = -0.16-0.04$ . Lastly, when considering the difference

between cost transparency and the combined transparency (i.e.  $D_3$ ), the perceived information sensitivity also did not mediate the effect of transparency condition on consumers' perception of the brand's transparency: effect = -0.01, BootSE = 0.03 and  $Bootstrap\ CI_{LL-UL} = -0.07-0.05$ . Therefore, H1 was not supported.

Post-hoc two-way analysis of covariance (ANCOVA) revealed that only the presence of cost transparency showed significant impact on participants' perception of information sensitivity  $[F\ (1,\ 171)=18.20,\ p<0.001]$  and brand transparency  $[F\ (1,\ 171)=17.27,\ p<0.001]$ , but not the presence of production transparency in differentiating the perceived information sensitivity  $[F\ (1,\ 171)=2.03,\ p=0.16]$  and brand transparency  $[F\ (1,\ 171)=3.07,\ p=.08]$ . Moreover, least significant differences (LSD) pairwise comparisons of the four conditions showed that the cost transparency condition was significantly different from production transparency condition in the perceived information sensitivity (Mdifference = 0.74, SE = 0.37, p<0.05), but not perceived brand transparency (Mdifference = 0.44, SE = 0.26, p=0.90).

H2 and H3 addressed the direct effects of consumers' perceived brand transparency on perceived brand authenticity as well as on consumers' trust, attitude and behavioral intentions toward the brand. Multiple regression analyses controlling individuals' product involvement were conducted in examining the proposed hypotheses. The results indicated that perceived brand transparency was significantly associated with perceived brand authenticity (b = 0.71, SE = 0.04, t = 13.91, p < 0.001), consumers' brand trust (b = 0.63, SE = 0.05, t = 11.14, p < 0.001), consumers' attitude toward the brand (b = 0.63, SE = 0.05, t = 12.29, t = 0.001) and consumers' behavioral intention toward the brand (t = 0.451, SE = 0.08, t = 0.67, t = 0.001). Therefore, t = 0.08 and t = 0.08 were both supported.

H4 asked about the direct effects of brand authenticity on consumers' trust, attitude and behavioral intentions toward the brand. Following the same procedure, the results of multiple regression analyses showed that consumers' perceived brand authenticity also had a significantly positive influence on consumers' brand trust (b = 0.74, SE = 0.05, t = 14.65, p < 0.05

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0.001), attitude ( $\beta$  = 0.82, SE = 0.05, t = 18.65, p < 0.001) and behavioral intentions ( $\beta$  = 0.38, SE = 0.08, t = 5.92, p < 0.001). Therefore, H4 was also supported.

In testing the mediation effect of brand authenticity between brand transparency and consumers' responses toward the brand, the authors conducted a mediation analysis using Model 4 in Hayes' (2017) PROCESS macro with 5,000 bootstrap samples. Brand transparency was entered as the predictor. Brand trust, attitude toward the brand and behavior intention were entered as the outcome variables independently. Brand authenticity was entered as the mediator and individuals' product involvement was entered as a covariate. Results showed a significant mediation effect of brand authenticity between brand transparency and consumers' trust toward the brand (effect = 0.34, BootSE = 0.06,  $Bootstrap\ CI_{U_cUL} = 0.22$ – 0.47), attitude toward the brand (effect = 0.44, BootSE = 0.06, Bootstrap  $CI_{LL-UL} = 0.33-0.56$ ) and behavioral intention toward the brand (effect = 0.49, BootSE = 0.09,  $Bootstrap\ CI_{LL}$ UL = 0.33-0.68). Individuals' product involvement was found to be a significant covariate when the output variables were brand attitude (b = 0.13, SE = 0.05, p < 0.01) and behavioral intention (b = 0.19, SE = 0.08, p < 0.05), but not for brand trust (b = 0.06, SE = 0.05, p = 0.19). In sum, H5 was supported. See Figures 2, 3 and 4 for details.

#### Discussion

The above results revealed the impact of transparent brand communication on consumers' perception of a brand's transparency and authenticity. Although the mediation effect of information sensitivity was not significant between the transparency conditions and the perceived brand transparency, the post-hoc analyses revealed cost transparency as the main driver in influencing the perceived information sensitivity and brand transparency. Moreover, when only comparing the difference between cost transparency and production transparency conditions, results indicated significant difference in information sensitivity but not brand transparency. In other words, consumers' perceptions of brand transparency, under the condition of unknown brands, are based on the presence (vs absence) of cost transparency information, as well as the amount of information revealed. Moreover, this effect of brand transparency could also be carried onto consumers' attitudinal response, trust and behavioral intentions toward the brand via the mediation of perceived brand authenticity.

# Study 2

To increase the current study's external validity and its application to a real-world situation, Study 1 was replicated with a real brand from the apparel industry.

#### Measures

In addition to the measures used in Study 1, namely, brand transparency (Cronbach's a = 0.922), brand authenticity (Cronbach's a = 0.924), brand trust (Cronbach's a = 0.870), attitude toward the brand (Cronbach's a = 0.885), behavioral intention (Cronbach's a = 0.907), product involvement (Cronbach's a = 0.932) and perceived information sensitivity, the current study also involved additional control variables to avoid external effects from confounding variables

Figure 2 Mediation analysis with brand attitude as consequent variable (fictions brand)

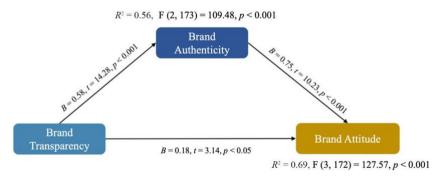
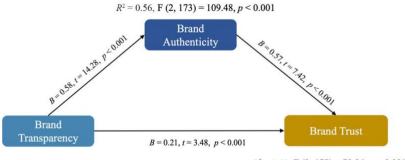
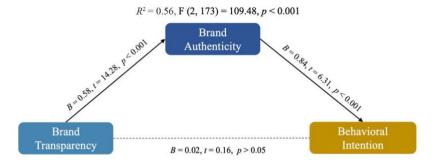


Figure 3 Mediation analysis with brand trust as consequent variable (fictions brand)



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Figure 4 Mediation analysis with behavioral intention as consequent variable (fictions brand)



(i.e. pre-existing brand attitude and brand familiarity). Pre-existing brand attitude (Cronbach's a = 0.907), as adapted from Lutz *et al.* (1983), was measured using a seven-point bipolar scale with items including "negative = 1" to "positive = 7"; "bad = 1" to "good = 7"; and "unfavorable = 1" to "favorable = 7." Brand familiarity (Cronbach's a = 0.964) was measured using scale items from Becker-Olsen *et al.* (2006), anchored with "unfamiliar = 1" to "familiar = 7"; "did not

recognize = 1" to "recognized = 7"; and "had not heard of = 1"

to "had heard of = 7."

hypotheses testing in Study 2.

The validity and reliability of the newly developed brand transparency scale were again tested using SPSS Amos version 27. The detailed results are presented in Table 2. In a brief summary, the scale once again showed good factor loadings (ranged from 0.797 to 0.850) and a good model fit (chi-square/ df = 1.270, CFI = 0.999, GFI = 0.991, AGFI = 0.945, RMSEA = 0.040 and PCLOSE = 0.452), which satisfied the thresholds suggested in previous literature (Hu and Bentler, 1999; MacCallum et al., 2001). Results also showed good reliability, convergent validity and discriminant validity of the scale, such that CR was at 0.904, which is above 0.70, AVE was at 0.703 which is above 0.50 and MSV was at 0.563, which is smaller than AVE (Malhotra and Dash, 2011; Fornell and Larcker, 1981). The value of HTMT (comparing brand transparency with brand authenticity) was at 0.77, which is smaller than the threshold of 0.90 (Henseler et al., 2015). Thus, the measure of brand transparency was appropriate for

Participants and procedure Participants (n = 200) were, again, recruited from *Prolific*. After excluding participants who failed the attention check questions, there were a total of 169 valid responses. More than half of the participants were male (62.7%), non-Hispanic White (86.4%), ages 18–63 years, with the majority being Millennials (88.8%). About half of the participants were students (44.4%), and the majority (81.1%) had an annual household income under \$50,000. Column 2 of Table 1 presents the details of the sample.

After consenting to participate in the study, participants were first asked to evaluate their product involvement with clothing products, followed by their pre-existing attitude and familiarity with Uniqlo. Then, they were randomly assigned to one of the four experimental conditions. After reviewing the e-commerce website mock-up page, they were presented with two

manipulation check questions (i.e. perceived production transparency and perceived cost transparency). These questions were followed by the measurement items of perceived sensitivity of the information, brand transparency, brand authenticity, brand attitude, brand trust and behavioral intentions. Demographic information was collected toward the end.

 $R^2 = 0.38$ , F (3, 172) = 34.67, p < 0.001

# Data analysis

#### Manipulation check

Results of the two-way ANOVA analyses indicated successful manipulation of the production transparency  $[F\ (1,\ 161)=45.24,\ p<0.001]$  and cost transparency  $[F\ (1,\ 161)=118.70,\ p<0.001]$ , such that the presence of production information would lead to greater perceived production transparency than the absence of production information (Mdifference = 1.73, SE = 0.26, p<0.001) and the presence of cost information would lead to greater perceived cost transparency than the absence of such information (Mdifference = 2.97, SE = 0.27, p<0.001). Therefore, the manipulation was successful in Study 2 as well.

# Hypothesis testing

To test HI, which suggested cost (vs production) information transparency will result in higher brand transparency because of its information sensitivity, we ran a multi-categorical mediation analysis using Model 4 in Hayes' (2017) PROCESS macro with 5,000 bootstrap samples. Repeating the process, as indicated in Study 1, the transparency group condition was entered as the independent variable. Three dummy variables were created using the cost transparency as the reference level  $(D_I)$  indicated the difference between cost transparency and control group;  $D_2$  indicated the difference between cost transparency and production transparency; and  $D_3$  indicated the difference between cost transparency and the combined transparency). In the data, the cost transparency was coded as -1, the control group was coded as 0, the production transparency was coded as 1 and the combined transparency was coded as 2.

The perceived brand transparency was entered as the outcome variable, and the perceived information sensitivity was entered as the mediator. In addition, individuals' pre-existing brand attitude, brand familiarity and product involvement were entered as covariates.

Results showed that individuals' pre-existing brand attitude (B = 0.55, SE = 0.10, p < 0.001), brand familiarity (B = -0.17,

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SE = 0.04, p < 0.001) and product involvement (B = 0.15, SE = 0.06, p < 0.001) were all significant covariates. The perceived information sensitivity was found to be a significant mediator: effect = -0.11, BootSE = 0.07 and  $Bootstrap\ CI_{LL-UL}$  = -0.25 to -0.02, when only considering the difference between cost transparency and the control group (i.e.  $D_I$ ); when only considering the difference between cost transparency and production transparency: effect = -0.07, BootSE = 0.05 and  $Bootstrap\ CI_{LL-UL}$  = -0.17 to -0.002. But it was not a significant mediator when only considering the difference between cost transparency and the combined transparency condition: effect = 0.05, BootSE = 0.04 and  $Bootstrap\ CI_{LL-UL}$  = -0.12-0.13. Therefore, based on the above findings, HI was supported.

Similar to study 1, post-hoc two-way ANCOVA analyses revealed that the presence of cost transparency showed significant impact on participants' perception of information sensitivity  $[F\ (1,\ 161)=22.60,\ p<0.001]$  and brand transparency  $[F\ (1,\ 161)=30.08,\ p<.001]$ . The presence of production transparency also had significant effect on information sensitivity  $[F\ (1,\ 161)=3.88,\ p<0.05]$  and brand transparency  $[F\ (1,\ 161)=7.77,\ p<0.01]$ . Moreover, LSD pairwise comparisons of the four conditions showed that the cost transparency condition was significantly different from production transparency in the perceived information sensitivity (Mdifference = 0.73, SE = 0.36, p<0.05) and perceived brand transparency (Mdifference = 0.51, SE = 0.21, p<0.05).

H2 and H3 predicted the direct effects of consumers' perceived brand transparency on perceived brand authenticity and consumer responses, such as brand trust, brand attitude and behavioral intentions. Multiple regression analyses controlling individuals' product involvement, pre-existing attitude and brand familiarity were conducted to examine the proposed hypotheses. Results indicated that perceived brand transparency significantly influenced perceived brand authenticity (B = 0.64, SE = 0.04, t = 12.20, p < 0.001), consumers' brand trust (B = 0.61, SE = 0.05, t = 10.71, p < 0.001), consumers' attitude toward the brand (B = 0.53, SE = 0.06, t = 8.97, p < 0.001) and consumers' behavioral intention toward the brand (B = 0.47, SE = 0.08, t = 7.24, p < 0.001). Therefore, H2 and H3 were both supported.

H4 addressed the direct effects of brand authenticity on consumers' trust, attitude and behavioral intentions toward the brand. The results of multiple regression analyses controlling individuals' product involvement, pre-existing attitudes and brand familiarity showed that consumers' perceived brand authenticity significantly influenced brand trust (B=0.80, SE = 0.05, t=16.28, p<0.001), attitude (B=0.73, SE = 0.06, t=13.81, p<0.001) and behavioral intentions (B=0.61, SE = 0.10, t=9.73, p<0.001). Therefore, H4 was also supported.

To examine the mediation effect of brand authenticity between brand transparency and consumers' responses toward the brand, this study used the mediation Model 4 analysis in Hayes' (2017) PROCESS macro with 5,000 bootstrap samples. Brand transparency was entered as the predictor. Brand trust, attitude toward the brand and behavior intention were entered independently as the consequent variables. Brand authenticity was entered as the mediator. Individuals' product involvement, pre-existing brand attitude and brand familiarity

were entered as covariates. Results showed a significant mediation effect of brand authenticity between brand transparency and consumers' trust toward the brand: effect = 0.36, BootSE = 0.05 and  $Bootstrap\ CI_{LL-UL} = 0.26-0.47$ ; attitude toward the brand: effect = 0.40, BootSE = 0.06 and  $Bootstrap\ CI_{LL-UL} = 0.28-0.53$ ; and behavioral intention toward the brand: effect = 0.42, BootSE = 0.10 and  $Bootstrap\ CI_{LL-UL} = 0.24-0.64$ . Individuals' pre-existing brand attitude was found to be a significant covariate only when the output variable was brand attitude (B = 0.34, SE = 0.09, P < 0.001). Individuals' product involvement (B = 0.15, SE = 0.06, P < 0.05) and brand familiarity (B = 0.34, SE = 0.09, P < 0.001) were found to be significant covariates only when the output variable was behavioral intention. In sum, B = 0.00, B = 0.000. See Figures 5, 6 and 7 for details.

#### Discussion

The results of Study 2 further confirmed the impact of transparent brand communication on consumers' perception of a brand's transparency and authenticity and its effects on consumers' attitudes, trust and behavioral intentions toward the brand. However, unlike Study 1, findings from Study 2 revealed that both the presence of cost transparency and production transparency would lead to greater perception of brand transparency. The findings of pairwise comparisons indicated that cost transparency condition, compared to production transparency condition, resulted in higher perceived brand transparency. Moreover, the current study also revealed the reason for such difference between cost transparency condition and production transparency condition, which is the perceived sensitivity of the disclosed information from the brand. Combined with the findings from Study 1, the following section provides a general discussion of the research findings and their theoretical and managerial value.

#### General discussion

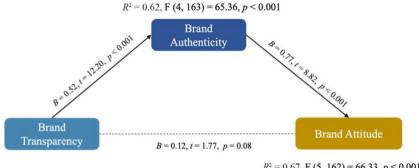
#### Theoretical contributions

Transparency and authentic communication continue to become more salient in modern marketing communication (Brown et al., 2003; Yoo and Jeong, 2014). In response to this uprising trend, the current research aimed to investigate the effects of different types of transparent brand communication (i.e. production vs cost transparency) on consumers' perceptions of brand transparency and authenticity, as well as their corresponding impact on consumers' trust, attitude and behavior intention toward the brand. Two distinct studies were conducted to examine the proposed effects using both a fictitious brand and a real brand to ensure its internal and external validity. The results of these two studies indicated several exciting findings that contribute to existing literature on brand transparency and brand authenticity.

First, in terms of building brand transparency, the current study took a pioneering approach by comparing different types of transparent information disclosure, i.e. production transparency and cost transparency. As suggested by Mohan *et al.* (2020), cost transparency is a relatively new type of brand communication in response to the current and ongoing societal changes. It is also a form of sensitive disclosure compared to

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Figure 5 Mediation analysis with brand attitude as consequent variable (real brand)



 $R^2 = 0.67$ , F (5, 162) = 66.33, p < 0.001

Figure 6 Mediation analysis with brand trust as consequent variable (real brand)

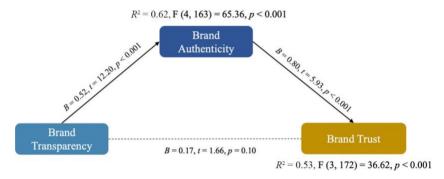
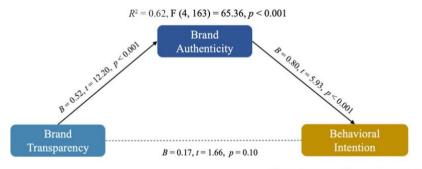


Figure 7 Mediation analysis with behavioral intention as consequent variable (real brand)



 $R^2 = 0.53$ , F (5, 162) = 36.62, p < 0.001

other information disclosures. McKay (2008) and Tapscott and Ticoll (2003) have pointed out that consumers' subjective evaluation of a brand's transparency does not merely depend on the full disclosure of information from brands, but also on how crucial and relevant the information is to consumers. Therefore, the findings from both Studies 1 and 2 provided empirical support for the significant role of disclosing cost information in driving the perceived brand transparency. Specifically, in comparing the effects in between cost transparency and production transparency,

Study 2 provided empirical evidence that cost transparency was perceived as more transparent than production transparency because of its higher level of information sensitivity. However, interestingly, when we used an

unknown/fictitious brand in Study 1, such a difference in perceived brand transparency was not found to be significant between cost and production transparency. This may be because of the perceived effort a brand makes by disclosing its sensitive information. One core component of disclosure sensitivity is the potential loss/risks associated with the disclosure. For brands that are already well-established and well-known by consumers, giving up sensitive information comes with more risks/possible loss than a brand that is young and new. Therefore, in reality, more young interruption brands have been observed in different product categories as presenting themselves to be more transparent and authentic. This move, however, is more difficult for established brands to pull off.

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The findings also demonstrated that, by disclosing more information, brands are perceived as having higher brand authenticity, which further results in positive consumer attitudes, trust and purchase intentions. These findings echo previous studies that have suggested transparent brand communication and brand authenticity to have a positive impact on consumer responses (Ewing et al., 2012; Fritz et al., 2017; Hyllegard et al., 2012; Lu et al., 2015; Napoli et al., 2014; Spiggle et al., 2012; Yan et al., 2010). When brands provide transparent information, they can minimize skepticism toward ad content (Darke and Ritchie, 2007; Poetzsch, 2014), evoke more brand trust and foster consumer connection with the brand (Anderberg and Morris, 2006; Grayson and Martinec, 2004). Furthermore, a brand's disclosure of information regarding its business practices and procedures can narrow the social distance gap between a brand and its consumers. As suggested by Mohan et al. (2020), when a brand discloses secrets that are typically tightly guarded, consumers are likely to be more attracted to the brand. This finding also resonates with selfdisclosure reciprocity effects (Sprecher et al., 2013), which have been shown to indicate that higher self-information disclosure tends to result in affiliated affective responses, such as liking and trust. Thus, in a consumer-brand interaction domain, it is likely that a high level of brand self-disclosure will lead to consumers' positive affective responses, trust and behavioral intentions.

Brand transparency and brand authenticity are two closely related constructs in branding literature that share common characteristics such as "genuineness," truthfulness" and "realness." The current study further develops this connection while also extending literature on brand transparency and brand authenticity through theoretical lens of signaling theory (Spence, 1974). Brand transparency provides signals that can develop new perceptions or support existing perceptions of brand authenticity. Furthermore, transparent brand communication offers cues that can be used to build perceived brand authenticity in consumers' minds.

Lastly, the operationalization of brand transparency in previous studies is limited to contexts such as transparency regarding the ethical use of labor and manufacturing (Bhaduri and Ha-Brookshire, 2015; Hustvedt and Kang 2013; Kang and Hustvedt, 2014b) and environmentally friendly green production transparency (Lin et al., 2017) as opposed to that of transparency regarding general brand perceptions. Scholars studying brand transparency have operationalized it by manipulating whether or not information is disclosed in experiment stimuli. As a result, the existing literature lacks a holistic approach to understanding consumers' perceptions of brand transparency. The current study fills this gap by introducing its scale to brand transparency as a holistic consumer perception. Such a scale can serve future scholars who want to study the overall effects of brand transparency in different contexts.

# Managerial implications

From a managerial perspective, the current study provides insight into how brands can improve their perceived transparency and authenticity through marketing communication. Based on the findings of this study, companies

and brands can influence the perception of authenticity among consumers by being more transparent with their production process and costs of producing their products.

The results suggest that higher perceived transparency and authenticity of a brand benefited the relationship between the brand and consumers (i.e. brand trust and attitude). For existing brands specifically, transparent communication regarding cost was perceived with a higher level of information sensitivity, thus resulting in higher perceived brand transparency and authenticity. This ultimately fostered the consumer–brand relationship (i.e. brand trust and brand attitude) and increased consumers' behavioral intention toward the brand. For established brands trying to change consumers' perceptions of their authenticity or attract target audiences that value brand character, brand managers should strategically consider adopting such a tactic and disclosing more crucial/sensitive information to consumers.

For brands that are new or unknown, the practice of disclosing cost and production information can similarly help build consumers' perception of the brand's perceived transparency and authenticity. As such a practice of cost and production transparency has not yet been widely adopted in today's marketplace, brand managers who want to distinguish their brands from the commercial brands should also consider adopting this approach, as it would ultimately assist the brand in building long-term relationships with consumers and drive consumers' behavioral intentions, such as making purchases and positive word of mouth.

Moreover, given the current dramatic switch from offline retail to online consumption because of the global COVID-19 pandemic outbreak, we believe such a tactic can be more commonly instituted by brands on their e-commerce sites and digital marketing communication channels. Such changes can help consumers feel like participating in the brand's production process by knowing more about the product they are consuming, reducing uncertainties in making purchases. Moreover, it also provides consumers the opportunity to monitor the brand's actions, thereby leading to even more long-term consumer—brand relationships (i.e. brand trust) and a healthy/ethical market environment.

# Limitations and future studies

Although the current study was carefully designed, it is not without limitations, which leave opportunities for future studies. First, the present study was performed within one industry sector (i.e. apparel). To increase generalizability, future studies should test the proposed hypotheses under different industry sectors, such as travel and fast consumption goods.

Although cost transparency was found to be an effective approach in generating positive consumer responses in this study, future studies should examine its application to luxury products and services, as this type of product and service rely heavily on sensational experiences that are hard to be calculated based on material costs. Future studies can examine the impact and potential harm of revealing cost information to a brand's overall image and consumer—brand relationships. In line with this, a future study might also investigate perceived price appropriateness in cases where cost information is disclosed to consumers, as it could potentially influence consumers'

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perceptions and subsequent evaluations of the brand and product.

In addition to production and cost information, future studies should consider expanding the types of data disclosed to consumers. Additional information might include internal company spending for its employees, external marketing efforts, influencer collaborations and costs and other related sponsorship events. Such scenarios would provide valuable insights into consumer receptiveness of a variety of information transparency and its cruciality and relevance.

Lastly, boundary conditions based on individuals' differences in pre-existing attitude, product involvement and brand self-identification should also be explored to see if variations would influence the effects observed in this study. Specifically, individuals' ad skepticism would be an exciting aspect to explore, particularly in terms of whether it could mitigate the positive impact of transparent brand communication. Following the persuasion knowledge model (Friestad and Wright, 1994), when consumers identify marketers' persuasion tactics, they activate their persuasion knowledge in resisting the marketing message. Future studies that center on the mitigation of positive effects brought on by transparent information disclosure from brands in regards to the activation of persuasion knowledge have the potential to greatly impact current literature.

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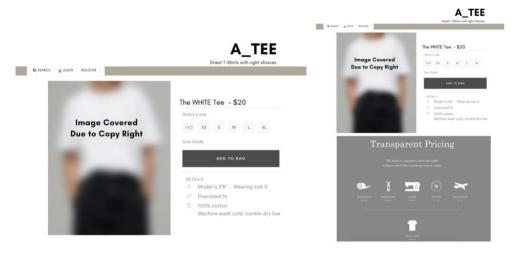
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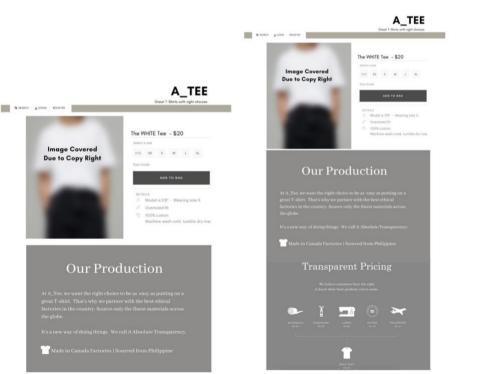
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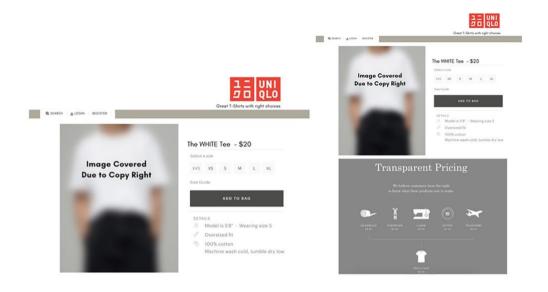
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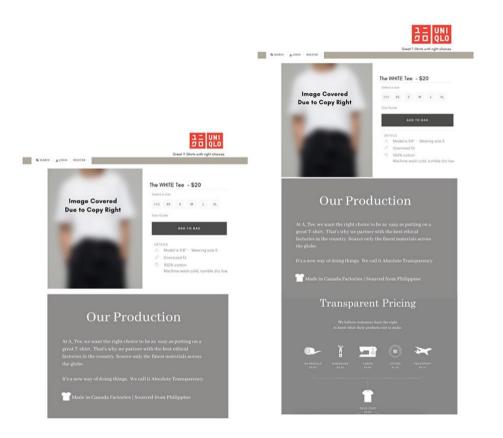
# **Appendix**





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