



Emerald

International Journal
of Retail &
Distribution Management

**Engaging customers during a website visit: A model of
website customer engagement**

Journal:	<i>International Journal of Retail & Distribution Management</i>
Manuscript ID	IJRDM-08-2015-0124.R4
Manuscript Type:	Research Paper
Keywords:	customer engagement, internet retailing, online consumer behaviour, website attributes, environmental psychology, website design

SCHOLARONE™
Manuscripts

Engaging customers during a website visit:

A model of website customer engagement

Abstract

Purpose: A customer's visit to a retail website is a critical 'moment of truth' during which contemporary retailers attempt to simultaneously, during a single web navigation, capture customers' attention, build rapport and prompt them to act. By showing how to capture customer commitment *over the course of a single website visit*, the concept of customer website engagement, defined as 'the process of developing cognitive, affective and behavioural commitment to an active relationship with the website', addresses strategic concerns. Drawing from literature on engagement, this study considers how retail websites can engage customers during the course of a website navigation. A conceptual model of website customer engagement underpinned by relationship marketing and communication knowledge, shows how perceptions of the website's exploration and sense-making potential can activate consumer engagement, and is then empirically tested.

Design/methodology/approach: Using survey data, measures of the four dimensions of engagement (interaction engagement, activity engagement, behavioural engagement, and communication engagement) and of three drivers are developed and validated. The model is tested empirically (n=301) using structural equation modelling.

Findings: The results support the process conceptualisation of engagement, which identifies organismic as well as conative stages, and show the distinct roles played by perceptions of informational exploration, experiential exploration and sense-making in activating engagement.

Practical implications: The study provides online retailing practice with an organising framework enabling online retailing managers to consider how, depending on their product

1
2
3 category and their size, they might (re)design their website to optimally produce customer
4
5 engagement.
6

7 *Originality/value:* The study contributes to online marketing and retailing knowledge by
8 showing the relevance of the concept of engagement as it pertains to customers' single
9 navigations on retail websites, and by empirically showing, through a parsimonious model,
10 how engagement can be activated and unfold.
11
12
13
14
15

16
17
18 *Keywords:* customer engagement; internet retailing; website attributes; online consumer
19 behaviour; website design; environmental psychology
20
21

22 *Paper type:* Research paper
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

Engaging customers during a website visit:

A model of website customer engagement

Introduction

A retail website constitutes an important touchpoint and a first online navigation can determine the future of a customer's relationship with retailers and their offerings. Retail websites host complex interactions, with online customers where communication and relational elements are inseparably interwoven, and the website's stimuli can simultaneously activate communication and relational responses. Such an interweaving of marketing communication and relational phenomena call for a considering of both domains, although marketing communication and relationship marketing have traditionally been separate managerial and scholarly concerns.

The concept of engagement, which describes a customer's experience of active connection or participation with a marketing entity (such as a brand, a firm, a website, an online community), could address the need to explain initial and on-going customer–website interactions comprehensively, by encompassing communication *as well as* relational properties. It has acquired much prominence in the practitioner literature (e.g. French et al., 2012; Gallup, 2014), reflecting marketers' compulsion to understand how, in today's overcrowded and fragmented marketing landscape, they might *simultaneously* capture customers' attention (Huddleston et al., 2015), build rapport with them and generate commitment to act. Scholarly attention has intensified recently (e.g. Brodie et al., 2013; Baldus et al., 2015; Bowden, 2009; Mollen and Wilson, 2010; Vivek, 2009; Brodie et al., 2011; Hollebeek et al., 2014).

Customer engagement can apply to a broad range of focal objects such as brands (Bowden, 2009; Sprott et al., 2009), organisations' innovation initiatives (Sawhney et al.,

1
2
3 2005), virtual communities (Brodie et al., 2013; Baldus et al., 2015). However, the question
4 of why and how retail websites can engage customers on their first-time or subsequent visits
5 remains open. Although a few studies have considered engagement in an online context
6 (Mollen and Wilson, 2010; Hollebeek et al., 2014; Calder et al., 2009; Brodie et al., 2013;
7 Pagni and Mirabello, 2011), none so far has considered the website itself as a focal object of
8 engagement. A possible reason for this surprising situation is that the engagement process has
9 mostly (although not always - see for instance Mollen and Wilson, 2010; Fredricks et al.,
10 2004) been used to characterise a succession of interactions over time, rather than being
11 considered in the context of a single interaction.
12
13
14
15
16
17
18
19
20
21

22
23 Yet, by showing how to capture customer commitment *over the course of a single*
24 *website visit*, customer engagement addresses strategic concerns, since websites are often the
25 first and only touchpoint through which retailers interact with their customers. Further, when
26 the website is the locus of the first interaction with prospects or new customers, their
27 engagement with the website may be a *sine qua non* condition for converting them into
28 returning visitors or customers. Additionally, customer engagement can have consequences
29 beneficial to the marketer beyond the customer's lifetime value, through referrals, influence
30 and the contribution of feedback to the firm (Kumar et al., 2010). As the first step on the
31 loyalty ladder, customer engagement may be key to profitability (Brodie et al., 2011).
32
33
34
35
36
37
38
39
40
41
42

43 Consequently, this study addresses the research question of how retail websites can
44 engage customers during the course of a website navigation. Drawing from literature on
45 engagement and environmental psychology, the paper develops a conceptualisation and
46 model of website customer engagement underpinned by relational and communication
47 knowledge, which it then tests. The study contributes to online marketing and retailing
48 knowledge by showing the relevance of the concept of engagement as it pertains to
49 customers' single individual navigations on retail websites, and by providing insights into
50
51
52
53
54
55
56
57
58
59
60

1
2
3 how website perceptual attributes can activate website customer engagement. It provides
4 online retailing practice with a framework enabling them to consider how, depending on their
5 product category and their size, they might (re)design their website to optimally produce
6 customer engagement.
7
8
9
10

11 12 13 14 **Theoretical background: Behaviour on the web and customer engagement**

15
16 The interactive and vivid qualities of the internet medium have been an early focus of the
17 online marketing literature (e.g. Manganari et al., 2009). Several authors use different
18 terminology to study the combination of cognitive and emotional phenomena that compel
19 customers to attend to and interact with the stimuli of a website. One stream (e.g. Loiacono et
20 al., 2007; Chang et al., 2014; Park et al., 2012) have drawn from offline atmospherics
21 literature, to consider the ‘silent language’ (Kotler, 1973: , p. 48) of online communication,
22 with a view to designing website stimuli which produce desirable customer responses.
23
24 Another stream was initiated by Hoffman and Novak (1996), who extended the concept of
25 flow (Csikszentmihalyi, 1990) to online contexts, suggesting that flow promotes ‘stickiness’
26 with the website and enhances customer experiences (Bilgihan et al., 2015; Rose et al., 2012;
27 Shim et al., 2015).
28
29
30
31
32
33
34
35
36
37
38
39
40

41 Yet, the interactive nature of the internet also entails the development, during any
42 online navigation session, of a relationship between the customer and the website (Dennis et
43 al., 2009). Hence, the specific characteristics of internet behaviour such as interactivity
44 (Steuer, 1992), customer participation (Meuter et al., 2003) and involving experiences
45 (Hoffman and Novak, 1996) suggest the relevance of both relational and communications
46 aspects. The concept of engagement, which describes a customer’s active connection or
47 commitment to a relationship with a marketing entity based on an experience or set of
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 experiences, aptly captures the two aspects (relational and communicational) inherent in the
4 interaction which customers develop with websites.
5
6

7 A review of extant typical conceptualisations of engagement (Table 1) reveals that
8 while the concept has received much attention in the past decade from diverse disciplines,
9 there remains much disparity about its domain and that some foci have received more
10 attention than others.
11
12
13
14
15

16 -----
17
18 INSERT TABLE 1 ABOUT HERE
19
20 -----
21
22
23
24

25 Several general observations seem pertinent. First, with the exception of Webster and
26 Ahuja (2006), these conceptualisations distinguish engagement from flow, involvement and
27 interactivity because of the action orientation of engagement. Second, there is much
28 divergence regarding the actual domain of engagement, some authors considering it as a
29 behavioural construct, others seeing it as a strictly organismic construct, others as a process
30 or a state within an ongoing process. Third, the process of engagement may be ongoing, i.e.
31 applying to a succession of interactive experiences with the focal object, or it may apply to a
32 particular experience or interaction. Fourth, there is also much diversity in terms of the focal
33 object of engagement: a brand, a virtual community, offerings, websites, the organisation for
34 which employees work, learning activities, or the product development and innovation
35 activities of an organisation. Fifth, although the definitions in the marketing studies recognise
36 the different, simultaneous roles that customers play as receivers and producers of
37 communication, and as actors in a developing relationship with the focal object of
38 engagement, the studies often only draw from either the marketing communication or the
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 relationship marketing literature, rarely from both. Sixth, empirical studies and in particular
4
5 measures of the concept remain scarce.
6

7
8 Several further matters arise with regard to studies that have considered the online
9
10 context. So far, the literature has not examined engagement with a website other than from
11
12 the perspective of the website representing the brand (Mollen and Wilson, 2010), the website
13
14 being an advertising medium (Calder et al., 2009), or social television websites where the
15
16 two-way interaction is with other viewers rather than the actual website (Pagani and
17
18 Mirabello, 2011). Yet, in a retail context, websites are far more than advertising media or
19
20 brand proxies: as environments, as service touchpoints, as the providers of multi-faceted
21
22 information about offerings, they can make or break the ‘moment of truth’ which customers
23
24 and prospects experience during the course of an online navigation. This moment of truth can
25
26 have heavy consequences not only on purchases, but also in terms of the customer’s
27
28 disposition towards the retailer and their degree of ‘active-ness’ (positive or negative)
29
30 towards the retailer and the website. Therefore, this paper argues that website customer
31
32 engagement is a central construct to enable retailers to understand how, over the course a
33
34 single navigation, they might grab customers’ attention, develop a relationship with them and
35
36 incite them to act within the context an increasingly interactive, fragmented and complex
37
38 business environment.
39
40
41

42
43 Alongside Bowden (2009), this paper argues for a conceptualisation which
44
45 acknowledges that engagement, rather than being only a psychological or a behavioural
46
47 construct, is a *process* construct with both organismic and conative facets, to reflect the pro-
48
49 active notion underpinning the construct and distinguishing it from related constructs such as
50
51 involvement. This approach is conducive to ‘opening the black box’ of customer engagement
52
53 and understanding how it can be activated. Furthermore, alongside Calder, Malthouse, and
54
55 Schaedel (2009), Mollen and Wilson (2010), and Webster and Ahuja (2006), this paper
56
57
58
59
60

1
2
3 conceptualises the process of website customer engagement within the context of individual
4
5 online navigation experiences.
6

7
8 Adapting Mollen and Wilson's (2010) definition to the focus of a marketing website,
9
10 and reflecting the conceptualisation of engagement as a process taking place during
11
12 individual navigations, website customer engagement is defined as the process of developing
13
14 a cognitive, affective and behavioural commitment to an active relationship with the website.
15

16
17 This conceptualisation augments retailing and customer engagement literature since
18
19 the particular focal object of engagement considered here (retail websites) has so far been
20
21 neglected in the engagement literature. Due to the breadth of possible focal objects of
22
23 engagement and the critical contextual influences on the processes underpinning customer
24
25 engagement (Brodie et al., 2011), this conceptualisation is not simply an extension of extant
26
27 theory to another context. Without conceptualisation work that takes account of the specific
28
29 object of engagement, further conceptual development and empirical attempts at measuring
30
31 and understanding the underlying elements of the engagement process would be hampered.
32
33
34
35

36 **Conceptual model**

37
38 Retail websites are virtual environments, and an online navigation exposes customers
39
40 to their stimuli. As per Mehrabian and Russell's (1974) Stimulus – Organism – Response
41
42 (SOR) model, stimuli generate a sequence of reactions: organismic reactions are internal
43
44 states resulting from an immediate reaction to stimuli. In turn, they produce a behavioural
45
46 response. We develop a conceptual framework using the SOR model and drawing from
47
48 knowledge from relationship marketing and marketing communication literature to consider
49
50 both relationship building and communication aspects underpinning the customer-website
51
52 interaction on a retail website.
53
54
55
56
57
58
59
60

1
2
3 In a first instance, we operationalise customer engagement as a set of organismic and
4 conative responses to interactions with the attributes of a retail website and develop
5
6 hypotheses linking the different components of customer engagement through a relational
7
8 and a communication route. Second, we use environmental psychology literature to identify
9
10 three relevant drivers of customer engagement and develop hypotheses regarding the manner
11
12 they each activate a particular route of customer engagement.
13
14
15
16
17

18 *Operationalising website customer engagement*

19
20 The conceptualisation of website customer engagement has argued that customer
21
22 engagement interweaves relationship marketing and marketing communication phenomena.
23
24 We now deal with these in turn.
25
26

27 The Web facilitates relationship-building (Yoon et al., 2008). A relationship
28
29 marketing perspective views customer navigations on a retail website as emergent
30
31 relationships between the customer and the marketer, as the customer interacts with the
32
33 website. Li, Browne and Wetherbe (2006) argue that there exists a relationship between
34
35 websites and users that evolves over time, whose qualities in terms of trust and commitment,
36
37 influences stickiness intention, or the “embedding [of] a website within a user’s routine” (p.
38
39 106). This paper further posits that a single online navigation, in and of itself, also constitutes
40
41 a marketing relationship: during the several minutes of the navigation, a relationship
42
43 gradually develops, in which the customer discovers the manner in which the website works
44
45 and responds to requests for further content, and establishes whether it is a suitable, useful
46
47 and trustworthy website. Commitment at the end of a single navigation experience represents
48
49 the customer's *behavioural engagement* with the site in future. Prior literature confirms links
50
51 between intention and behaviour (e.g. Ajzen, 1991; Yun and Good, 2007), such that
52
53
54
55
56
57
58
59
60

1
2
3 behavioural engagement would represent the conative element of the relational interaction
4
5 between the website and the customer.
6

7 A determinant of commitment is the level of closeness and understanding experienced
8 by the customer during the navigation. *Interaction engagement* refers to the degree of
9 closeness that customers feel toward the website, depending on how well the site seems to
10 understand them, adapt to them and meet expectations during the navigation session.
11 Customers may experience interaction engagement when, during the navigation, the site
12 behaves in a manner they understand and expect, both technically and by providing the
13 content they anticipated from a hyperlink or a search. Feelings of identification and being
14 understood are important because they imply that the marketer has something useful to offer
15 the customer, or that the customer can psychologically identify with the marketer
16 (Bhattacharya and Sen, 2003; Carlson et al., 2008). Service personnel who display
17 interpersonal sensitivity and concern build rapport with consumers (Ashforth and Humphrey,
18 1993), which is likely to result in intentions to maintain that rapport. . Further, two-way
19 communication has been shown to facilitate the development of relationships with online
20 retail brands (Yoon et al., 2008) and argued to increase engagement (Brodie et al., 2011).
21 Hence, when consumers perceive that a retail website is able to adapt to their questions,
22 queries and requirements, according to engagement theory and relationship marketing
23 principles, they will be more likely to return to that website.
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44

45 The 'relational route' links interaction engagement and behavioural engagement.
46 Behavioural engagement should derive from the immediate, organismic response of
47 interaction engagement, such that customers who feel a stronger sense of identification and
48 adaptation with a retail website should be more willing to return to the website.
49
50
51
52

53 *H₁: Interaction engagement with a website positively influences behavioural*
54 *engagement engagement.*
55
56
57
58
59
60

1
2
3 Alongside the relationship building view discussed above, a marketing
4
5 communication perspective views customer navigations on a retail website as conversations
6
7 between a marketer and a customer, the two parties conceivably communicating while
8
9 gradually building a relationship. Such a perspective would view each action by the customer
10
11 (click on a hyperlink, type in a search and press enter) as a question, which is answered in the
12
13 form of a new page. Thus, the interaction between the customer and the website takes the
14
15 form of a dialogue, consisting of actions and page returns. The internet enables customers to
16
17 control and choose the communication they receive from marketers (Hoffman and Novak,
18
19 1996; Ariely, 2000; Fortin and Dholakia, 2005). By virtue of this control and choice,
20
21 customers become 'authors' of the content they receive (Shih, 1998). This authoring can be
22
23 involving. *Activity engagement* refers to the level of involvement with the task of 'producing'
24
25 communication by calling up different elements of content (clicking on hyperlinks, search for
26
27 key terms, calling up product photographs etc.). Involved states have motivations properties
28
29 (Mitchell, 1979; Rothschild, 1984); specifically, involved customers search for more
30
31 information (Beatty and Smith, 1987), process information better (Chaiken, 1980) and are
32
33 more involved with purchase decisions (Richard and Habibi, 2016). During a navigation,
34
35 customers may become more active with the website, such as when they request more pages,
36
37 explore the website more thoroughly, and pay more attention to information on the screen; or
38
39 they may remain more passive and only look distractedly at a few pages, without focusing on
40
41 anything or following through on any information.
42
43
44
45
46

47
48 Beyond the communication they expose themselves to during the course of the
49
50 navigation, customers can also opt to remain in communication with the website in the future,
51
52 by registering to receive alerts, future newsletters or by bookmarking the site they visit.
53
54 Hence, *communication engagement* refers to the customer's commitment towards future
55
56 dialogue with the website. Communication engagement is a form of commitment – which
57
58
59
60

1
2
3 Moorman, Zaltman, and Deshpande (1992: , p. 316) define as “an enduring desire to maintain
4 a valued relationship.” With the internet technology though, communication engagement
5 goes beyond desire, because customers can create a pull for future information in the here and
6 now.
7
8
9
10

11 The ‘communication route’ links activity engagement and communication
12 engagement. Hence, communication engagement is viewed as a conative response to the
13 communication exchange between the customer and the website, which results from the
14 immediate, organismic response of activity engagement. Specifically, more involved
15 customers develop positive attitudes toward a site (Richard and Habibi, 2016), which prompts
16 them to gather more information later (Richard and Chandra, 2005). To guarantee the flow of
17 future information, customers request further communication in the present.
18
19
20
21
22
23
24
25
26

27 *H₂: Activity engagement with the website positively impacts communication*
28 *engagement on the site.*
29
30
31

32 Further, customers can form attachments to the object of involvement (Mittal, 1989;
33 Broderick et al., 2007). Involvement has affective consequences (Mittal, 1989; Park and
34 Moon, 2003), therefore customers experiencing a higher activity engagement are likely to
35 develop stronger relational bonds with the website, as empirical studies show, which find
36 relationships between website involvement and purchase intentions or approach attitudes
37 (Kim et al., 2007; Richard and Habibi, 2016). Hence:
38
39
40
41
42
43
44

45 *H₃: Activity engagement with a website positively influences behavioural engagement*
46 *with the site.*
47
48
49

50 Additionally, the decision to request future communication from the website can be
51 seen as evidence of the stickiness of the website, which can apply to both the duration and the
52 frequency of a website’s visit (Roy et al., 2014; Li et al., 2006), suggesting that customers
53 wish to remain associated with the website and will use the further communication as an
54
55
56
57
58
59
60

1
2
3 opportunity to revisit the site, for instance clicking on a hyperlink provided in an email or
4
5 online newsletter. Further, as discussed earlier, communication engagement constitute a form
6
7 of commitment to future interactions, and commitment has been identified in several studies
8
9 as an antecedent to customer loyalty to commercial websites (see Toufaily et al., 2013; Wang
10
11 et al., 2006). Hence:

12
13
14 *H₄: Communication engagement positively affects behavioural engagement with the*
15
16 *website.*

17 18 19 20 21 *Drivers of website customer engagement*

22
23 According to the SOR model (Mehrabian and Russell, 1974), the organismic responses of
24
25 customer engagement result from customers' perceptions of stimuli or attributes of the retail
26
27 website during their navigation (Mollen and Wilson, 2010). Following the logic of
28
29 Parasuraman et al's (2005) means-end framework, we chose to consider, as drivers of
30
31 customer engagement, a website's perceptual attributes (i.e. the website characteristics
32
33 comprising features, cues and functions, which are perceived by consumers as they use a
34
35 retail website) rather than concrete cues (the individual elements which constitute a website),
36
37 for two main reasons. First, cues may evolve with technology, whereas the perceptions of
38
39 these cues in people's minds are more stable; second, people may not have the technical
40
41 awareness or vocabulary to assess cues, whereas they are used to considering the more
42
43 abstract level of perceptions.
44
45
46

47
48 To conceptualise how customers perceive retail websites, this study adopts the
49
50 principles of Kaplan and Kaplan's (1982) Preference Framework, which stipulates that
51
52 people's two main needs in an environment are to make sense and to explore. People use
53
54 information from the environment to address these two needs. The two concepts of sense-
55
56 making and exploration are particularly apt in the context of online environments, as
57
58
59
60

empirically verified by Rosen and Purinton (2004), Singh, Dalal, and Spears (2005), Demangeot and Broderick (2010), and Brunner-Sperdin *et al.* (2014). Retail websites are less intuitive than offline shopping environments. They appear to the customer one page at a time, which complicates the task of making sense of the overall architecture and contents. For the same reasons, the hidden portions of the website (i.e., the parts that are not on the page on screen and are alluded to in the form of hyperlinks or clickable photographs, etc.) provide the potential for further exploration.

A website's potential for exploration can relate to both the experience of shopping, as in browsing or following links to more areas on the site, and the information that the site provides (Demangeot and Broderick, 2010). Thus, *experiential exploration potential*, or the website's ability to replicate the experience of abundance of a real retail environment, differs from *informational exploration potential*, or the provision and storage of vast amounts of searchable information (Burke, 2002) from both marketer and non-marketer sources. This distinction between two forms of exploration potential is important, because information, while not a predominant element of most landscapes and environments, is central to online marketing environments (Huang, 2000) and can add value to customers' online shopping experience (Koufaris, 2002). Regardless of whether they are browsing or engaging in goal-directed shopping, online customers are information seekers.

Customers who perceive a site as higher in experiential exploration potential likely visit more pages and become more interested and motivated (Kim et al., 2007), therefore a more active with the context (Ha and Lennon, 2010). Similarly, perceptions of high informational exploration potential should activate the same responses (Fortin and Dholakia, 2005). Hence:

H₅: Perceptions of (a) experiential exploration potential and (b) informational exploration potential positively influence activity engagement with the website.

1
2
3 *Sense-making potential* relates to the website's ability to facilitate the customer's
4 orientation, navigation and task accomplishment. Customers who make sense of the website
5 should feel more comfortable and understand the site, which in turn increases their sense of
6 familiarity (Kaplan and Kaplan, 1982). Familiarity enables them to obtain more answers from
7 the website, which can heighten their sense of closeness and identification. Moreover, during
8 the navigation experience, customers who perceive the site as high in experiential exploration
9 potential likely visit and explore more pages. Experiences produce strong emotional
10 responses (Richins, 1997), so customers who engage in shopping experiences that are high in
11 experiential exploration potential should develop stronger relational ties with the site.
12
13

14
15
16
17
18
19
20
21
22 *H₆: Perceptions of (a) sense-making potential and (b) experiential exploration*
23 *potential positively impact interaction engagement.*
24
25

26
27 Websites that offer informational exploration increase website familiarity (Richard
28 and Habibi, 2016) and decrease levels of uncertainty towards decision-making (Mazaheri et
29 al., 2011). Informativeness has also been found to be one of the contributors to website
30 persuasiveness on travel websites (Kim and Fesenmaier, 2008). Hence, perceptions of
31 informational exploration potential, by increasing familiarity with the site and decreasing
32 uncertainty, should activate a stronger sense of feeling understood and adaptation of the
33 website. Hence:
34
35
36
37
38
39
40
41

42 *H_{6c}: Perceptions of informational exploration potential positively influence*
43 *interaction engagement.*
44
45
46

47 Consistent with the conceptualisation of separate routes (communication and relational)
48 to engagement, it is hypothesised that specific drivers are more effective in activating one of
49 the two routes. Interaction engagement with the site likely relies more on the provision of
50 relevant information, which is known to enable customers to develop trust towards the
51 marketer behind the site (Bauer et al., 2002). Concomitantly, activity engagement is likely
52
53
54
55
56
57
58
59
60

1
2
3 more reliant on the experiential impact of the visual and immersive stimuli of the site (Fortin
4 and Dholakia, 2005; Kim et al., 2007). Hence:
5
6

7 *H₇: Informational exploration potential activates interaction engagement with the site*
8 *more than it does activity engagement.*
9

10 *H₈: Experiential exploration potential activates activity engagement with the site*
11 *navigation more than it does interaction engagement.*
12
13
14
15

16 A visual representation of the conceptual model and the hypothesised relationships can
17 be found (alongside hypothesis testing results discussed later) in Figure 1. Compared to other
18 models of online shopping adoption (e.g. Dennis et al., 2009; Brunner-Sperdin et al., 2014;
19 Wu et al., 2013; Richard and Habibi, 2016; Rose et al., 2012), the parsimonious model of
20 customer engagement conceptualised here captures the dual challenge of relationship
21 building and communication. It conceptualises the existence of two distinct routes (the
22 relational route via interaction engagement and behavioural engagement, and the
23 communication route via activity engagement and communication engagement) through
24 which online retailers can use potent website attributes as levers to turn initial reactions into
25 behavioural intentions.
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40

41 **Method and procedure**

42 Because the purpose of the research is to consider how retail websites can engage
43 customers during a single visit by developing and testing a model of website customer
44 engagement, a survey research method was deemed to be the most appropriate. In particular,
45 it was preferred to an experimental design, since the design of an experimental website the
46 and manipulation of the drivers of website customer engagement (experiential exploration
47 potential, informational exploration potential and sense-making potential) would have
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 affected the realism of the participants' navigation, and therefore the study's external validity
4
5 (Hair et al., 2006).
6

7
8 The target population for the study was defined as consumers who shop and purchase
9
10 online regularly. A convenience sample of 301 volunteer U.K.-based students and university
11
12 staff was recruited to test the nomological network. The sample was recruited via
13
14 advertisements on campus, email, and via the network of student 'research assistants'.
15
16 Participation was voluntary, but respondents were given the option of entering a raffle to win
17
18 one of five items, the biggest prize being an iPod. In a university computer lab or at their
19
20 workstations, the respondents navigated an online bookstore for eight minutes before they
21
22 answered a questionnaire about their particular experience. The requirement that they
23
24 navigate the website before answering the questionnaire added to the difficulty of collecting
25
26 the data, but this procedure enabled a focus on respondents' perceptions of a specific, recent
27
28 navigation rather than their memories or past perceptions of a random website. This step
29
30 enhances the study's validity by avoiding halo or memory effects (Chen, Wigand, and Nilan,
31
32 1999).
33
34
35

36
37 The product category (books) of the stimulus is a common purchase among the
38
39 respondents and increases the realism of the task. Within that product category, the study uses
40
41 a relatively unknown site (only 7.3% of the sample reported that they had visited it before;
42
43 none reported using it regularly) and therefore can capture fresh perceptions, untainted by the
44
45 memory of previous visits or any loyalty to the site itself. The instructions asked the
46
47 respondents to shop online as they would normally if they were at home, in an internet café,
48
49 or at their desk. The instructions also contained examples of what respondents might want to
50
51 do during the navigation session, such as "searching for a book [they] had in mind to
52
53 purchase" or "browsing."
54
55
56
57
58
59
60

1
2
3 The sample characteristics are described in Table 2. The recruitment of a convenience
4 sample rather than the use of random sampling, due to the prohibitive costs of the latter, may
5 affect the reliability of measures and the generalisability of the hypothesis testing results
6 (Hair et al., 2006). Several elements mitigate these risks. First, in terms of the sample's
7 relevance as reflective of the target population, 96.7% of the respondents had shopped online,
8 and 94.7% had made purchases online; therefore the sample, while a convenience sample,
9 undertook a realistic task. Additionally, while the sample, which consists of 214 university
10 students and 87 university staff, remains a convenience sample, the nationality breakdown of
11 the sample is reasonably reflective of the proportions of nationalities present on a UK
12 university campus. The statistical checks carried out revealed that there were no significant
13 differences between students and staff concerning the variables and relationships of interest,
14 therefore both groups were combined. Half of the total sample (obtained by random split)
15 provided input for the scale development, and the second half served scale validation
16 purposes (Churchill, 1979). The testing of the nomological network employed the whole
17 sample.
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35

36 -----
37
38 INSERT TABLE 2 ABOUT HERE
39
40 -----
41
42
43
44

45 The procedure for developing reliable and valid measures of the seven constructs in
46 the nomological framework followed accepted procedures (Churchill, 1979). The study
47 operationalised activity engagement by adopting Mishra *et al.*'s (1993) involvement with the
48 choice task measure. Convergent validity requirements (Hair et al., 2010) resulted in reducing
49 the four-item measure to three items.
50
51
52
53
54
55
56
57
58
59
60

Measures for the model's remaining six constructs were developed (or adapted) and validated. Although some of the constructs may describe phenomena that relate to well-known constructs from relationship marketing, marketing communication, and environmental psychology literature, their application to the online context required sufficient changes, to warrant the rigorous development and validation process set out by Churchill (1979) and others (Anderson and Gerbing, 1988). These measures' items emanate from published scales (Agarwal and Karahanna, 2000; Aladwani and Palvia, 2002; Kim and Stoel, 2004; Liu, Arnett, Capella, and Taylor, 2001; Park and Kim, 2003; Venkatesh and Davis, 1996), an exploratory phase consisting of think-aloud protocols (Ericsson and Simon, 1993), and depth interviews with 19 informants.

Nine expert judges performed a sorting task of the 156 items gathered through these methods. According to the rules of interjudge reliability prevalent in marketing literature (e.g. Hardesty and Bearden, 2004), 106 items were appropriate for retention; a pilot test included these items in a questionnaire distributed to a convenience sample of 39 students. The final survey included 69 items selected on the basis of qualitative feedback, item-to-total correlations, and exploratory factor analysis. To guard against the possibility of response bias (Baumgartner and Steenkamp, 2001), each measure contained negatively worded items, and items from all seven measures appeared in a random sequence in the questionnaire.

To estimate the model, structural equation modelling was chosen in preference to other techniques such as ANOVA because this technique (1) simultaneously estimates several interrelated dependence relationships; (2) it enables the testing of indirect as well as direct relationships between constructs; and (3) can deal with relationships can include unobserved phenomena, for which measurement error is taken into account during the estimation (Hair et al., 1998). Furthermore, it is particularly well suited to permit the testing of several alternative models in order to assess their relative fit. In view of the small

percentage of missing data (which ranged from 0 to 1.3%) and its apparent randomness, imputation was preferred to any deletion method, in order to preserve the sample size and avoid estimation problems associated with the use of matrices of different sizes generated by pairwise deletions.

Results

Measure validation

Exploratory and confirmatory factor analyses helped purify and validate the measures. The Appendix provides the measures' psychometric properties. The measurement model displays acceptable goodness-of-fit: Chi-square = 893.87, degrees of freedom [df] = 474 ($p=.000$); root mean squared error of approximation [RMSEA] = .054; confirmatory fit index [CFI] = .98; $n=301$; square root mean residual [SRMR] = .056]. All seven measures have strong composite reliabilities, well above the recommended threshold of .60 (Bagozzi and Yi, 1988). Their average variances extracted are all above or within a few decimal points of the recommended .50 threshold (Bagozzi and Yi, 1988). The square of any correlation between two measures is less than the average variance extracted of each measure, in support of discriminant validity (Fornell and Larker, 1981). Additionally, for each pair of variables, the analysis tested nested two-factor models, where the correlation between the two factors was set free, then set to equality. All Chi-square differences are significant at the .005 level, implying all constructs have discriminant validity. Therefore, although the measures had originally been piloted on a test sample consisting only of students, they remained valid when administered to a wider group, thus adding weight to the argument that students constitute a suitable sample for this study. The latent variables' correlations and other statistics are shown in Table 3.

1
2
3 INSERT TABLE 3 ABOUT HERE
4
5
6
7
8
9
10
11

12 *Hypothesis testing*

13
14 Structural equation modelling permits the test of hypothesised relationships between the
15 constructs that constitute customer engagement and their drivers. The results suggest good
16 model fit (Chi-square = 913.98, degrees of freedom [df] = 483; root mean squared error of
17 approximation [RMSEA] = .055; confirmatory fit index [CFI] = .98; square root mean
18 residual [SRMR] = .059; non-normed fit index [NNFI] = .98); Figure 1 presents these results.
19
20 The first set of hypotheses (H₁–H₄) proposes a network of relationships between the four
21 constructs of customer engagement. The results support these four hypotheses at the .001
22 level. The strongest relationship links activity engagement to communication engagement
23 (.66, t = 11.31). The relationships between communication engagement and behavioural
24 engagement (.38, t = 6.89), activity engagement and behavioural engagement (.35, t = 4.84),
25 and between interaction engagement and behavioural engagement (.24, t = 4.16) are all
26 significant.
27
28
29
30
31
32
33
34
35
36
37
38
39
40

41
42
43 INSERT FIGURE 1 ABOUT HERE
44
45
46

47 Regarding the relationships between customer engagement and its drivers, the
48 structural equation model results support H₅–H₆ at the .05 level or higher. Informational
49 exploration potential predicts both interaction engagement (.64, t = 7.68) and activity
50 engagement (.39, t = 5.77); experiential exploration potential predicts both activity
51
52
53
54
55
56
57
58
59
60

1
2
3 engagement (.50, $t = 6.41$) and interaction engagement (.19, $t = 2.68$). Sense-making potential
4
5 is a weaker though still significant predictor of interaction engagement (.15, $t = 2.48$).
6

7
8 To test the final hypotheses, H7 and H8, further analysis aimed to determine whether
9
10 the drivers activate one route significantly more than the other. To investigate whether
11
12 informational exploration potential activates the relational route more than the
13
14 communication route, an alternative model was specified, in which the paths from
15
16 informational exploration potential to interaction engagement and activity engagement were
17
18 set equal, then free. The Chi-square difference between the two models, for one degree of
19
20 freedom, is 4.38. Therefore, informational exploration potential activates the relational route
21
22 significantly more than the communication route. In a similar investigation of whether
23
24 experiential exploration potential activates the communication route more than the relational
25
26 route, the Chi-square difference, for one degree of freedom, is 13.11. Hence, experiential
27
28 exploration potential activates the communication route significantly more than the relational
29
30 route.
31
32

33
34 The squared multiple correlations for each of the four structural equations indicate
35
36 that the model explains 73% of the variability of interaction engagement, 63% of the
37
38 variability of activity engagement, 44% of the variability of communication engagement, and
39
40 69% of the variability of behavioural engagement. The model therefore includes important
41
42 predictors of customer engagement.
43
44

45
46 At best, a good fit between a model and the data indicates that the model provides a
47
48 possible explanation of a phenomenon; therefore, an alternative model provides a means to
49
50 assess relative fit. An alternative model was also tested, which features the four components
51
52 of customer engagement as direct consequences of the three drivers, such that experiential
53
54 exploration potential and informational exploration potential are antecedents of all four
55
56 components, whereas sense-making potential is an antecedent only of interaction engagement
57
58
59
60

1
2
3 and behavioural engagement. The antecedent–consequence relationships among the four
4
5 components of customer engagement do not appear in the alternative model. Its goodness-of-
6
7 fit indices reveal a far worse fit (Chi-square = 1045.34, $df = 482$; RMSEA = .062; CFI = .97;
8
9 SRMR = .065). The comparison and resulting Chi-square difference of 131.36 (one degree of
10
11 freedom) add further support to the two-step model of customer engagement developed here.
12
13

16 Discussion

18 *Theoretical implications*

20 Building on initial conceptualisations of customer engagement (Mollen and Wilson, 2010;
21
22 Brodie et al., 2011; Vivek, 2009; Bowden, 2009; Hollebeek, 2011; van Doorn et al., 2010),
23
24 this paper has proposed and tested a model of website customer engagement. Structural
25
26 equation modelling results empirically support the two-step model that was developed and
27
28 the hypothesised relationships between customer engagement and its three drivers. It also
29
30 confirms the existence of two distinct routes to customer engagement, which can be activated
31
32 separately by manipulating different website attributes.
33
34
35

36 This study offers four major implications. First, by distinguishing between organismic
37
38 and conative responses, the model of customer engagement specifies, in interaction
39
40 engagement and activity engagement, two distinct means of activation which prompt
41
42 customers' desirable behaviours, namely, behavioural engagement and communication
43
44 engagement. Both organismic responses predict behavioural engagement; activity
45
46 engagement also affects communication engagement, which in turn influences behavioural
47
48 engagement. Therefore, the model confirms the existence of both organismic and conative
49
50 facets to engagement (Brodie et al., 2011) and clarifies the sequence of the responses to
51
52 website attributes and pinpoints the importance for retailers of designing websites able to
53
54 generate, concurrently, a close interaction with the site and an active experience. The
55
56
57
58
59
60

1
2
3 predictive importance of activity engagement on both communication and behavioural
4 engagement supports the proposition that participation in the production or delivery of a
5 service (in this case, online retail shopping) is an antecedent of long-term customer
6 engagement (Brodie et al., 2011).
7
8
9
10

11 Second, the findings support the existence of two distinct routes to customer
12 engagement: experiential exploration potential activates activity engagement more than it
13 develops interaction engagement, which suggests a marketing communication route; and
14 informational exploration potential develops interaction engagement more than it creates
15 activity engagement, which suggests a separate relationship marketing route. Different kinds
16 of exploration potential therefore appear to activate different routes. While other models of
17 online consumer behaviour (e.g. Richard and Habibi, 2016; Rose et al., 2012) have tended to
18 privilege the communication and experiential side of consumer interactions with websites,
19 our results show the similarly significant importance of the relationship route, which can be
20 activated by the informativeness of the retail website. While website informativeness has
21 been considered in earlier studies (e.g. Richard, 2005; Richard and Habibi, 2016; Mazaheri et
22 al., 2011; Hausman and Siekpe, 2009), its influence on relationship building online has not
23 been investigated.
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39

40 Third, the study finds that activity engagement is more the result of experiential
41 exploration potential than informational exploration potential, re-emphasising the importance
42 of experiences in online shopping and service situations (Malthouse and Calder, 2011; Rose
43 et al., 2012; Ding et al., 2010). Although customers may start a navigation with purely
44 utilitarian intentions, their ultimate commitment to the site is enhanced by its experiential
45 potential.
46
47
48
49
50
51
52

53 Fourth, a particularly interesting finding is that informational exploration potential
54 activates the relational route of engagement more than its communication route. This
55
56
57
58
59
60

1
2
3 suggests that in the absence of any human being during the navigation, the provision of
4 abundant information can help develop a sense of closeness and understanding with the site.
5
6

7 In the absence of service personnel, a B2C website's depth of information may enhance the
8 relationship between the customer and the site, possibly by building trust through the
9 provision of quality information (Li et al., 2006; Porter and Donthu, 2008). This result also
10 echoes Sicilia and Ruiz's (2010) finding that even under high information load conditions,
11 attitudes towards a website remain high, although a decline in cognitive processing happens
12 beyond a certain level.
13
14
15
16
17
18
19
20
21
22

23 *Implications for practice*

24 When conceiving their website, retailers face the major challenge of designing an
25 environment that can engage prospects and customers within the few minutes of a single
26 navigation. This study provides an organising framework that enables retailers to deploy their
27 online investments strategically towards this purpose.
28
29
30
31
32
33

34 The study identifies specific drivers that, by activating specific organismic responses,
35 are able to commit customers to act. The two main activators of customer engagement,
36 experiential exploration and informational exploration potential, work in a complementary
37 manner. However, the study also provides more specific insights into which driver can be
38 used to the most effect to develop relational or communication elements on online
39 touchpoints.
40
41
42
43
44
45
46

47 To develop the relational route of customer engagement, retailers can focus on
48 enhancing their website's potential for informational exploration. In particular, bearing in
49 mind that the website may be the first and only touchpoint which customers or prospects
50 access, retailers should ensure that the information they provide is sufficient to enable
51 customers to complete their task. That task may simply be a general search, or the purchase
52
53
54
55
56
57
58
59
60

1
2
3 of a needed item. For this purpose, adaptive websites that enable retailers to model customer
4
5 online behaviour by comparing their first few steps on the website with generic models of
6
7 behaviour, can more successfully pattern the subsequent pages they present to customers after
8
9 their particular preferences, thus enhancing the likelihood of stronger interaction engagement,
10
11 and stronger behavioural engagement. The strong relationship between informational
12
13 exploration potential and interaction engagement also suggests that service providers and
14
15 marketers of credence goods can go some way towards overcoming the challenges of human-
16
17 less online operations, by developing their customers' interaction engagement through the
18
19 abundant provision of information online. Taking account of the results presented here,
20
21 together with those by Sicilia and Ruiz (2010) mentioned in the last section, retailers would
22
23 be well advised to provide as much information on their website as they can, since this
24
25 information serves, among other purposes, to build the relationship commitment of their
26
27 customers.
28
29
30

31
32 To develop the communication route of customer engagement, marketers can focus on
33
34 enhancing their website's potential for experiential exploration. The study results reinforce
35
36 the importance of the experience of the navigation, which prompts activity engagement as
37
38 well as, to a lesser degree, interaction engagement. Retailers, therefore, need to develop the
39
40 experiential intensity of their website. Several individual elements can contribute to the
41
42 development of a richer experience (Demangeot and Broderick, 2006), such as interactive
43
44 images (Fiore et al., 2005), 3-d representations of products, or even environments in virtual
45
46 worlds such as Second Life (Hoffman and Novak, 2009).
47
48

49
50 Finally, and importantly, rather than the judgment of expert website designers or
51
52 marketers that might be measured through 'objective' scales, engagement is activated by
53
54 customers' *perceptions* of website attributes. Accordingly, this study has developed valid
55
56 measures that retailers can usefully administer to test-customers to evaluate the ability of
57
58
59
60

1
2
3 their website to induce customer engagement, and to compare it with best-in-class or
4 competitor websites. Retailers' main aim remains to ensure that the features and devices
5 developed by the website designers work together, coherently, at enhancing customers'
6 overall perceptions of experiential and informational exploration potential. In this sense, the
7 constructs used here constitute a valuable 'vocabulary' for retailers to use when considering
8 the performance or objectives of the website.
9

10
11
12 It is important to acknowledge that the potential for experiential exploration may be
13 more costly to enhance than the potential for informational exploration since it typically
14 involves much larger outlays to acquire advanced technology. Such investments are not at the
15 disposal of all retailers. Smaller-scale retailers may therefore use the framework to realise
16 that they may not be able to develop the communication route as powerfully as their larger
17 competitors, in which case they should further emphasise the priority of making the most of
18 the relational route, by maximising the website's informational exploration potential.
19

20
21
22 Finally, the results of our study can also be considered in the light of emerging
23 business practice. In this respect, several observations appear pertinent. First, the importance
24 of communication engagement and the communication route overall can be seen in the
25 increasing number of alternative platforms (e.g. Facebook, Instagram, YouTube) on which
26 retailers seek to gain their customers' communication engagement, hence also prompting
27 further behavioural engagement. The different platforms, through their different
28 functionalities, operate differently in potentially activating further activity engagement on the
29 retail website. Second, the importance of informational exploration potential as a driver of
30 customer engagement can be related to the increasing amount of content, whether retailer- or
31 user-generated, displayed on retail websites. Third, the importance of the experiential
32 exploration potential of a website can be related to the increasing use of technical means such
33 as videos, auto-scrolling images, multiple views of a product, etc. used to enable consumers
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 to have a vivid experience an online store and its products. Fourth, consistent with the
4
5 findings of this study showing the weak role of sense-making potential in comparison to
6
7 experiential exploration potential and informational exploration potential, practitioner
8
9 conversation, which was initially focused on designing for functionality and ease of use, has
10
11 now shifted towards the issues designing for experience and information, as attested by a
12
13 number of 'how to' guides published in practitioner media (e.g. Schiff, 2015; McCreary,
14
15 2015). Fifth, let us also note that the elements of the experiential exploration potential and
16
17 informational exploration potential of websites are now increasingly being used in brick and
18
19 mortar environments such as Audi City, Primark, or New Balance (Charlton, 2013).
20
21
22
23

24 25 **Conclusion**

26
27 This study contributes to online marketing and retailing knowledge by empirically showing
28
29 the relevance of the concept of engagement in the context of online retail environments and
30
31 explaining how perceptions of website attributes activate engagement. In essence, this study
32
33 'opens the black box' of customer engagement in the context of retail websites, critical
34
35 touchpoints accessed by customers and prospects alike. In a single, parsimonious model, the
36
37 study has conceptualised and tested relationships between the four facets of engagement and,
38
39 as antecedents, perceptions of informational exploration, experiential exploration, and sense-
40
41 making. In the process, it provides psychometrically valid measures of four dimensions of the
42
43 engagement process and their drivers within an online retailing context.
44
45
46

47
48 Nevertheless, the study suffers from several limitations. The sample is a convenience
49
50 sample; however due to their above-average internet literacy, the university students and staff
51
52 who make up the sample are probably more representative of future customers, for whom
53
54 marketers need to plan. In addition, this study focuses on a single product category, and the
55
56 main survey related to a single website, although measure development utilised two different
57
58
59
60

1
2
3 websites. Books tend to be involving; however, the relational route to engagement may be
4
5 more prominent for product categories associated with higher levels of risk.
6

7 The study centres on the one-to-one interaction between online retailers and
8
9 customers, without considering customers' ability to influence other customers through word-
10
11 of-mouth or recommendations in social media. Further research should examine the strength
12
13 of each route for activating customers' desire to produce recommendations or tell friends
14
15 about the site. Does each route elicit a different kind of word-of-mouth activity? A cross-
16
17 sectional design limits the study's claim of causality. Further research could consider the
18
19 relative effects of experiential and informational exploration potential by experimentally
20
21 manipulating the attributes of a website.
22
23

24
25 Additional research, in particular interpretive research, should attempt to provide a
26
27 deeper understanding of the process by which retail website attributes activate customer
28
29 engagement. How does the potential for experiential exploration activate activity
30
31 engagement, and what specific features are most successful in doing so? Similarly, how does
32
33 the potential for informational exploration activate interaction engagement, and what
34
35 particular features or interactions produce higher levels of such engagement?
36
37

38 As conceptualised and empirically validated in this article, the parsimonious
39
40 nomological network of website customer engagement contributes to elucidating the dual
41
42 marketing challenge of communication and relationship building. The identification of two
43
44 distinct mechanisms through which website attributes activate engagement confirms the
45
46 strategic importance of the phenomenon and endows it with sound theoretical foundations
47
48 within a context of strategic importance to all retailers.
49
50
51
52
53
54
55
56
57
58
59
60

References

- Ajzen, I. (1991) "The theory of planned behavior", *Organ, Behavior and Human Decision Processes*, 50 (2), p 179-211.
- Anderson, J.C. and Gerbing, D.W. (1988) "Structural equation modeling in practice: A review and recommended two-step approach", *Psychological Bulletin*, 103 (3), p 411-423.
- Ariely, D. (2000) "Controlling the information flow: Effects on consumers' decision making and preferences", *Journal of Consumer Research*, 27 (2), p 233-248.
- Ashforth, B.E. and Humphrey, R.H. (1993) "Emotional labor in service roles: The influence of identity", *Academy of Management Review*, 18 (1), p 88-115.
- Bagozzi, R.P. and Yi, Y. (1988) "On the evaluation of structural equation models", *Journal of the Academy of Marketing Science*, 16 (1), p 74-94.
- Baldus, B.J., Voorhees, C. and Calantone, R. (2015) "Online brand community engagement: Scale development and validation", *Journal of Business Research*, 68 (5), p 978-985.
- Bauer, H.H., Grether, M. and Leach, M. (2002) "Building customer relations over the Internet", *Industrial Marketing Management*, 31 (2), p 155-163.
- Baumgartner, H. and Steenkamp, J.-B. (2001) "Response styles in marketing research: A cross-national investigation", *Journal of Marketing Research*, 38), p 143-156.
- Beatty, S.E. and Smith, S.M. (1987) "External search effort: An investigation across several product categories", *Journal of Consumer Research*, 14), p 83-95.
- Bhattacharya, C. and Sen, S. (2003) "Consumer-company identification: A framework for understanding consumers' relationships with companies", *Journal of Marketing*, 67 (April), p 86-88.

- 1
2
3 Bilgihan, A., Nusair, K., Okumus, F. and Cobanoglu, C. (2015) "Applying flow theory to
4
5 booking experiences: An integrated model in an online service context", *Information*
6
7 & Management, 52 (6), p 668-678.
8
9
10 Bowden, J.L.-H. (2009) "The process of customer engagement: A conceptual framework",
11
12 *Journal of Marketing Theory and Practice*, 17 (1), p 63-74.
13
14 Broderick, A.J., Greenley, G.E. and Mueller, R.D. (2007) "The behavioural homogeneity
15
16 evaluation framework: Using consumer involvement in international segmentation",
17
18 *Journal of International Business Studies*, 38 (5), p 99-108.
19
20
21 Brodie, R.J., Hollebeek, L., Juric, B. and Ilic, A. (2011) "Consumer engagement: Conceptual
22
23 domain, fundamental propositions, and implications for research", *Journal of Service*
24
25 *Research*, 14 (3), p 252-271.
26
27
28 Brodie, R.J., Ilic, A., Juric, B. and Hollebeek, L. (2013) "Consumer engagement in a virtual
29
30 brand community: An exploratory analysis", *Journal of Business Research*, 66 (1), p
31
32 105-114.
33
34
35 Brunner-Sperdin, A., Scholl-Grissmann, U.S. and Stokburger-Sauer, N.E. (2014) "The
36
37 relevance of holistic website perception. How sense-making and exploration cues
38
39 guide consumers' emotions and behaviors", *Journal of Business Research*, 67 (12), p
40
41 2515-2522.
42
43
44 Burke, R.R. (2002) "Technology and the customer interface: What consumers want in the
45
46 physical and virtual store", *Journal of the Academy of Marketing Science*, 30 (4), p
47
48 411-432.
49
50
51 Calder, B.J., Malthouse, E.C. and Schaedel, U. (2009) "An experimental study of the
52
53 relationship between online engagement and advertising effectiveness", *Journal of*
54
55 *Interactive Marketing*, 23 (4), p 321-331.
56
57
58
59
60

- 1
2
3 Carlson, B.D., Suter, T.A. and Brown, T.J. (2008) "Social versus psychological brand
4
5 community: The role of psychological sense of brand community", *Journal of*
6
7 *Business Research*, 61 (4), p 284-291.
8
9
10 Chaiken, S. (1980) "Heuristic versus systematic information processing and the use of source
11
12 versus message cues in persuasion", *Journal of Personality and Social Psychology*, 39
13
14 (November), p 752-756.
15
16 Chang, S.-H., Chih, W.-H., Liou, D.-K. and Hwang, L.-R. (2014) "The influence of web
17
18 aesthetics on customers' PAD", *Computers in Human Behavior*, 36), p 168-178.
19
20 Charlton, G. (2013) 11 great ways to use digital technology in retail stores. *Econsultancy*.
21
22 Churchill, G.A., Jr. (1979) "A paradigm for developing better measures of marketing
23
24 constructs", *Journal of Marketing Research*, 16 (1), p 64-73.
25
26
27 Csikszentmihalyi, M. (1990) *Flow: The psychology of optimal experience*, HarperCollins,
28
29 New York, NY.
30
31 Demangeot, C. and Broderick, A.J. (2006) "Exploring the experiential intensity of online
32
33 shopping environments", *Qualitative Market Research - An International Journal*, 9
34
35 (4), p 325-351.
36
37
38 Demangeot, C. and Broderick, A.J. (2010) "Consumer perceptions of online shopping
39
40 environments: A gestalt approach", *Psychology & Marketing*, 27 (2), p 117-140.
41
42
43 Dennis, C., Merrilees, B., Jayawardhena, C. and Wright, L.T. (2009) "E-consumer
44
45 behaviour", *European Journal of Marketing*, 43 (9), p 1121-1139.
46
47
48 Ding, D.X., Hu, P.J.-H., Verma, R. and Wardell, D.G. (2010) "The Impact of Service System
49
50 Design and Flow Experience on Customer Satisfaction in Online Financial Services",
51
52 *Journal of Service Research*, 13 (1), p 96-110.
53
54
55
56
57
58
59
60

- 1
2
3 Fiore, A.M., Jin, H.-J. and Kim, J. (2005) "For fun and profit: Hedonic value from image
4 interactivity and responses toward an online store", *Psychology & Marketing*, 22 (8),
5 p 669-694.
6
7
8
9
10 Fornell, C. and Larcker, D.F. (1981) "Evaluating structural equation models with unobserved
11 variables and measurement error", *Journal of Marketing Research*, 8 (1), p 39-50.
12
13
14 Fortin, D.R. and Dholakia, R.R. (2005) "Interactivity and vividness effects on social presence
15 and involvement with a web-based advertisement", *Journal of Business Research*, 58
16 (3), p 387-396.
17
18
19
20
21 Fredricks, J.A., Blumenfeld, P.C. and Alison, H.P. (2004) "School engagement: Potential of
22 the concept, state of the evidence", *Review of Educational Research*, 74 (1), p 59-109.
23
24
25 French, T., LaBerge, L. and Magill, P. (2012) Five 'no regrets' moves for superior customer
26 engagement. *McKinsey Quarterly*. (accessed 15 February 2016).
27
28
29
30 Gallup. (2014) The State of the American Consumer: Insights for Business Leaders. 1-60.
31
32 Ha, Y. and Lennon, S.J. (2010) "Online visual merchandising (VMD) cues and consumer
33 pleasure and arousal: Purchasing versus browsing situation", *Psychology and*
34 *Marketing*, 27 (2), p 141-165.
35
36
37
38
39 Hair, J., Bush, R. and Ortinau, D. (2006) "Marketing Research within a changing
40 environment. Revised international edition", *McGraw-Hill, New York, USA*, 589), p
41 566.
42
43
44
45 Hair, J.F., Anderson, R.E., Tatham, R.L. and Black, W.C. (1998) *Multivariate data analysis*,
46 Prentice Hall International, Upper Saddle River, NJ.
47
48
49 Hair, J.F., Black, W.C., Babin, B.J. and Anderson, R.E. (2010) *Multivariate Data Analysis*,
50 Prentice Hall, Upper Saddle River, NJ.
51
52
53
54
55
56
57
58
59
60

- 1
2
3 Hardesty, D.M. and Bearden, W.O. (2004) "The use of expert judges in scale development:
4
5 Implications for improving face validity of measures of unobservable constructs",
6
7 *Journal of Business Research*, 57 (2), p 98-107.
8
9
10 Hausman, A.V. and Siekpe, J.S. (2009) "The effect of web interface features on consumer
11
12 online purchase intentions", *Journal of Business Research*, 62 (1), p 5-13.
13
14 Hoffman, D.L. and Novak, T.P. (1996) "Marketing in hypermedia computer-mediated
15
16 environments: Conceptual foundations", *Journal of Marketing*, 60 (3), p 50-68.
17
18 Hoffman, D.L. and Novak, T.P. (2009) "Flow online: Lessons learned and future prospects",
19
20 *Journal of Interactive Marketing*, 23 (1), p 23-34.
21
22
23 Hollebeek, L. (2011) "Exploring customer brand engagement: Definition and themes",
24
25 *Journal of Strategic Marketing*, 17 (7), p 555-573.
26
27
28 Hollebeek, L.D., Glynn, M.S. and Brodie, R.J. (2014) "Consumer Brand Engagement in
29
30 Social Media: Conceptualization, Scale Development and Validation", *Journal of*
31
32 *Interactive Marketing*, 28 (2), p 149-165.
33
34
35 Huang, M.H. (2000) "Information load: Its relationship to online exploratory and shopping
36
37 behavior", *International Journal of Information Management*, 20 (5), p 337-347.
38
39
40 Huddleston, P., Behe, B.K., Minahan, S. and Fernandez, R.T. (2015) "Seeking attention: An
41
42 eye tracking study of in-store merchandise displays", *International Journal of Retail*
43
44 *& Distribution Management*, 43 (6), p 561-574.
45
46
47 Kaplan, S. and Kaplan, R. (1982) *Cognition and Environment*, Praeger Publishers, New
48
49 York, NY.
50
51 Kim, H. and Fesenmaier, D.R. (2008) "Persuasive design of destination web sites: An
52
53 analysis of first impression", *Journal of Travel Research*).
54
55
56
57
58
59
60

- 1
2
3 Kim, J., Fiore, A.M. and Lee, H.-H. (2007) "Influences of online store perception, shopping
4 enjoyment, and shopping involvement on consumer patronage behavior towards an
5 online retailer", *Journal of Retailing and Consumer Services*, 14 (2), p 95-107.
6
7
8
9
10 Kotler, P. (1973) "Atmospherics as a marketing tool", *Journal of Retailing*, 49 (4), p 48-64.
11
12 Koufaris, M. (2002) "Applying the technology acceptance model and flow theory to online
13 consumer behavior", *Information Systems Research*, 13 (2), p 205-223.
14
15
16 Kumar, V., Aksoy, L., Donkers, B., Venkatesan, R., Wiesel, T. and Tillmanns, S. (2010)
17 "Undervalued or overvalued customers: Capturing total customer engagement value",
18
19
20
21
22 *Journal of Service Research*, 13 (3), p 297-310.
23
24 Li, D., Browne, G.J. and Wetherbe, J.C. (2006) "Why do Internet users stick with a specific
25 website? A relationship perspective", *International Journal of Electronic Commerce*,
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
- Loiacono, E.T., Watson, R.T. and Goodhue, D.L. (2007) "WebQual: An instrument for
consumer evaluation of Web sites", *International Journal of Electronic Commerce*,
11 (3), p 51-87.
- Malthouse, E.C. and Calder, B.J. (2011) "Engagement and experiences: Comment on Brodie,
Hollenbeek, Juric and Ilic", *Journal of Service Research*, 14 (3), p 277-279.
- Manganari, E.E., Siomkos, G., J. and Vrechopoulos, A., P. (2009) "Store atmosphere in web
retailing", *European Journal of Marketing*, 43 (9), p 1140-1153.
- Mazaheri, E., Richard, M.-O. and Laroche, M. (2011) "Online consumer behavior:
Comparing Canadian and Chinese website visitors", *Journal of Business Research*, 64
(9), p 958-965.
- McCreary, A. (2015) The Best And Worst Web Sites Of 2014: From Beautiful Design To
Flawed Execution. *Retail Touchpoints*. (accessed 15 March 2016).

- 1
2
3 Mehrabian, A. and Russell, J.A. (1974) *An Approach to Environmental Psychology*, The MIT
4 Press, Cambridge, MA.
5
6
7 Meuter, M.L., Ostrom, A.L., Bitner, M.J. and Roundtree, R. (2003) "The influence of
8 technology anxiety on consumer use and experiences with self-service technologies",
9
10 *Journal of Business Research*, 56 (11), p 899-906.
11
12
13
14 Mishra, S., Umesh, U.N. and Stem, D.E.J. (1993) "Antecedents of the attraction effect: An
15 information-processing approach", *Journal of Marketing Research*, 30 (3), p 331-349.
16
17
18
19 Mitchell, A.A. (1979) "Involvement: A potentially important mediator of consumer
20 behaviour", in Wilkie, W.L. (Ed) *Advances in Consumer Research*. Association for
21 Consumer Research, Ann Arbor, p 191-196.
22
23
24
25 Mittal, B. (1989) "Must consumer involvement always imply more information search?", in
26 Srull, T.K. (Ed) *Advances in Consumer Research*. Association for Consumer
27 Research, Provo, UT, p 167-172.
28
29
30
31
32 Mollen, A. and Wilson, H. (2010) "Engagement, telepresence and interactivity in online
33 consumer experience: Reconciling scholastic and managerial perspectives", *Journal*
34 *of Business Research*, 63 (9-10), p 919-925.
35
36
37
38
39 Moorman, C., Zaltman, G. and Deshpande, R. (1992) "Relationships between providers and
40 users of marketing research: The dynamics of trust within and between
41 organizations", *Journal of Marketing Research*, 29 (August), p 314-329.
42
43
44
45 Pagani, M. and Mirabello, A. (2011) "The influence of personal and social-interactive
46 engagement in social TV Web sites ", *International Journal of Electronic Commerce*,
47
48 16 (2), p 41-67.
49
50
51
52 Parasuraman, A., Zeithaml, V.A. and Malhotra, A. (2005) "E-S-QUAL: A Multiple-Item
53 Scale for Assessing Electronic Service Quality", *Journal of Service Research*, 7 (3), p
54
55 213-233.
56
57
58
59
60

- 1
2
3 Park, C.-W. and Moon, B.-J. (2003) "The relationship between product involvement and
4 product knowledge: Moderating roles of product type and product knowledge type.",
5 *Psychology & Marketing*, 20 (11), p 977-997.
6
7
8
9
10 Park, E.J., Kim, E.Y., Funches, V.M. and Foxx, W. (2012) "Apparel product attributes, web
11 browsing, and e-impulse buying on shopping websites", *Journal of Business*
12 *Research*, 65 (11), p 1583-1589.
13
14
15
16 Porter, C.E. and Donthu, N. (2008) "Cultivating trust and harvesting value in virtual
17 communities", *Management Science*, 54), p 113-128.
18
19
20
21 Richard, M.-O. (2005) "Modeling the impact of internet atmospherics on surfer behavior",
22 *Journal of Business Research*, 58 (12), p 1632-1642.
23
24
25 Richard, M.-O. and Chandra, R. (2005) "A model of consumer web navigational behavior:
26 Conceptual development and implications", *Journal of Business Research*, 58 (8), p
27 1019-1029.
28
29
30
31
32 Richard, M.-O. and Habibi, M.R. (2016) "Advanced modeling of online consumer behavior:
33 The moderating roles of hedonism and culture", *Journal of Business Research*, 69 (3),
34 p 1103-1119.
35
36
37
38 Richins, M.L. (1997) "Measuring emotions in the consumption experience", *Journal of*
39 *Consumer Research*, 24 (2), p 127-146.
40
41
42
43 Rose, S., Clark, M., Samouel, P. and Hair, N. (2012) "Online customer experience in e-
44 retailing: an empirical model of antecedents and outcomes", *Journal of Retailing*, 88
45 (2), p 308-322.
46
47
48
49 Rosen, D.E. and Purinton, E. (2004) "Website design: Viewing the web as a cognitive
50 landscape", *Journal of Business Research*, 57 (7), p 787-794.
51
52
53
54 Rothschild, M.L. (1984) "Perspectives on involvement: Current problems and future
55 directions.", *Advances in Consumer Research*, 11), p 216-217.
56
57
58
59
60

- 1
2
3 Roy, S.K., Lassar, W.M. and Butaney, G.T. (2014) "The mediating impact of stickiness and
4 loyalty on word-of-mouth promotion of retail websites: A consumer perspective",
5
6 *European Journal of Marketing*, 48 (9/10), p 1828-1849.
7
8
9
10 Sawhney, M., Veronba, G. and Prandelli, E. (2005) "Collaborating to create: The internet as a
11 platform for customer engagement in product innovation", *Journal of Interactive*
12
13 *Marketing*, 19 (4), p 4-17.
14
15
16 Schiff, J.L. (2015) 12 ways to improve the customer experience for online shoppers. *CIO*.
17
18 (accessed 15 March 2016).
19
20
21 Shih, C.-F.E. (1998) "Conceptualizing consumer experiences in cyberspace", *European*
22
23 *Journal of Marketing*, 32 (7/8), p 655-663.
24
25
26 Shim, S.I., Forsythe, S. and Kwon, W.-S. (2015) "Impact of Online Flow On Brand
27 Experience and Loyalty", *Journal of Electronic Commerce Research*, 16 (1), p 56.
28
29
30 Sicilia, M. and Ruiz, S. (2010) "The effect of web-based information availability on
31 consumers' processing and attitudes", *Journal of Interactive Marketing*, 24 (1), p 31-
32
33 41.
34
35
36 Singh, S.N., Dalal, N. and Spears, N. (2005) "Understanding web home page perception",
37
38 *European Journal of Information Systems*, 14), p 288-302.
39
40
41 Sprott, D., Czellar, S. and Spangenberg, E. (2009) "The importance of a general measure of
42 brand engagement on market behavior: Development and validation of a scale",
43
44 *Journal of Marketing Research*, 46 (February), p 92-104.
45
46
47 Steuer, J. (1992) "Defining virtual reality: Dimensions determining telepresence", *Journal of*
48
49 *Communication*, 42 (4), p 73-93.
50
51
52 Toufaily, E., Ricard, L. and Perrien, J. (2013) "Customer loyalty to a commercial website:
53 Descriptive meta-analysis of the empirical literature and proposal of an integrative
54
55 model", *Journal of Business Research*, 66 (9), p 1436-1447.
56
57
58
59
60

- 1
2
3 van Doorn, J., Lemon, K.N., Mittal, V., Nass, S., Pick, D., Pirner, P. and Verhoef, P.C.
4
5 (2010) "Customer Engagement Behavior: Theoretical Foundations and Research
6
7 Directions", *Journal of Service Research*, 13 (3), p 253-266.
8
9
10 Vivek, S. (2009) A scale of consumer engagement. *Department of Management and*
11
12 *Marketing*. Tucsaloosa: University of Alabama, 233.
13
14 Wang, H.-C., Pallister, J.G. and Foxall, G.R. (2006) "Innovativeness and Involvement as
15
16 Determinants of Website Loyalty: I. A test of the style/involvement model in the
17
18 context of Internet buying", *Technovation*, 26 (12), p 1357-1365.
19
20
21 Webster, J. and Ahuja, J.S. (2006) "Enhancing the design of web navigation systems: The
22
23 influence of user disorientation on engagement and performance", *MIS Quarterly*, 30
24
25 (3), p 661-678.
26
27
28 Wu, W.-Y., Lee, C.-L., Fu, C.-S. and Wang, H.-C. (2013) "How can online store layout
29
30 design and atmosphere influence consumer shopping intention on a website?",
31
32 *International Journal of Retail & Distribution Management*, 42 (1), p 4-24.
33
34
35 Yoon, D., Choi, S.M. and Sohn, D. (2008) "Building customer relationships in an electronic
36
37 age: The role of interactivity of E-commerce Web sites", *Psychology and Marketing*,
38
39 25 (7), p 602-618.
40
41
42 Yun, Z.S. and Good, L.K. (2007) "Developing customer loyalty from e-tail store image
43
44 attributes", *Managing Service Quality: An International Journal*, 17 (1), p 4-22.
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

Figure 1: Nomological net of website customer engagement and hypothesis testing results

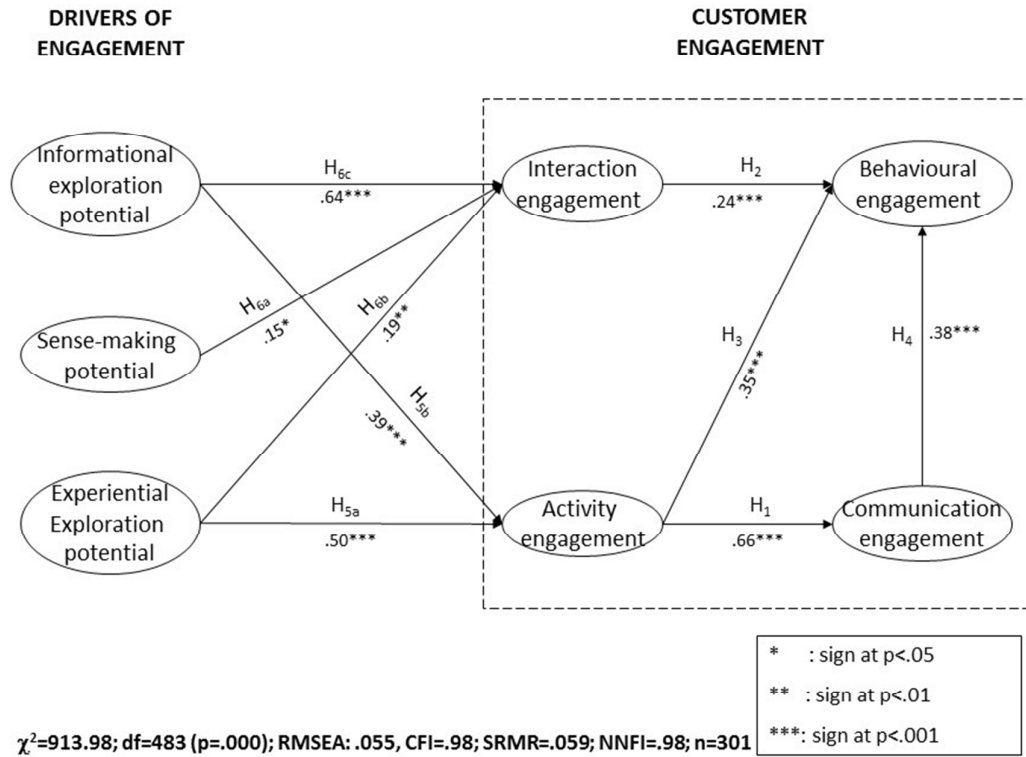


Table 1: Main Extant Conceptualisations of Engagement

Author(s)	Focus of engagement	Definitional notions	Domain	Literature base of conceptualisation	Measurement developed?
Baldus <i>et al.</i> (2015)	Online brand community	'the compelling, intrinsic motivations to continue interacting with an online brand community'	Motivational state	Consumer motivations	11 dimensions of motivations to engage
Bowden (2009)	Brand	'a psychological process that models the underlying mechanisms by which customer loyalty forms for new customers of a service brand as well as the mechanisms by which loyalty may be maintained for repeat purchase customers of a service brand.'	Ongoing process	Relationship marketing	No
Brodie, Hollebeek, Juric and Ilic (2011)	All foci	'a psychological state that occurs by virtue of interactive, cocreative experiences with a focal agent/object (e.g. a brand) in focal service relationships. [...] It is a multi-dimensional concept subject to a context-specific and/or stakeholder-specific expression of relevant cognitive, emotional and/or behavioural dimensions.'	State within an ongoing process	Relationship marketing	No
Brodie <i>et al.</i> (2013)	Virtual community	'a context-dependent, psychological state characterised by fluctuating intensity levels that occur within dynamic, iterative engagement processes'	State within an ongoing process	Relationship marketing	No

Author(s)	Focus of engagement	Definitional notions	Domain	Literature base of conceptualisation	Measurement developed?
Calder <i>et al.</i> (2009)	Web site as advertising medium	manifested in specific experiences with the Web site, and which causes one to feel connected towards the focus of engagement	Organismic, relates to specific experience	Marketing communication	Personal engagement, social-interactive engagement
Hollebeek <i>et al.</i> (2014)	Brand	'a consumer's positively valenced cognitive, emotional and behavioural brand-related activity during, or related to, specific consumer/brand interactions'.	State within an ongoing process	Relationship marketing	Cognitive processing, affection, activation
Kahn (1990)	Employees' organisation	'the simultaneous employment and expression of a person's 'preferred self' in task behaviours that promote connections to work and to others, personal presence (physical, cognitive, and emotional), and active, full role performances'.	State within an ongoing process	Job design	No
Kearsley and Shneiderman (1998)	Learning activities	'all student activities involve active cognitive processes such as creating, problem-solving, reasoning, decision-making, and evaluation. In addition, students are intrinsically motivated to learn due to the meaningful nature of the learning environment and activities'	Organismic and behavioural	Education	No

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49

Author(s)	Focus of engagement	Definitional notions	Domain	Literature base of conceptualisation	Measurement developed?
Mollen and Wilson (2010)	Web site as personalising a brand	'a cognitive and affective commitment to an active relationship with the brand'	State (emotional and cognitive) within one interaction	Communication	No
Pagani and Mirabello (2011)	Social television Web site	'a collection of qualitative experiences with the medium'.	Organismic within an ongoing Web site relationship	Marketing communication	Personal engagement; social-interactive engagement
Sawhney, Veronba and Prandelli (2005)	Product development and innovation	(no definition given)	Behavioural	Marketing communication	No
Sprott, Czellar and Spangenberg (2009)	Brand	'an individual difference representing consumers' propensity to include important brands as part of how they view themselves.'	Individual trait	Branding	Brand engagement in self-concept
Van Doorn et al. (2010)	Brand	'Customers' behavioural manifestation toward a brand or firm, beyond purchase, resulting from motivational drivers such as word-of-mouth activity, recommendations, helping other customers, blogging, writing reviews.'	Behavioural	Branding	No
Author(s)	Focus of	Definitional notions	Domain	Literature base of	Measurement

	engagement			conceptualisation	developed?
Vivek (2009)	Offerings, brands, firms, activities	'the intensity of consumers' participation and connection with [the focus of engagement]'	Behavioural	Relationship marketing	Customer engagement
Webster and Ahuja (2006)	Web site	More passive state than flow and involvement	Cognitive state within one interaction	Information systems	Engagement with the information system
This study	Website	'the process of developing a cognitive, affective and behavioural commitment to an active relationship with the website'	Ongoing process	Marketing communication and relationship marketing	Interaction engagement, activity engagement, behavioural engagement, communication engagement

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

Table 2: Sample Characteristics

Sample characteristics	
Sample size	301
University students	214
University staff	87
Sample's nationalities	
British	71.4%
Asian	15.9%
Other European	8.6%
American	2.0%
Middle Eastern	1.0%
African	.7%
Unknown	.3%
Percentage of sample that has shopped online	96.7%
Percentage of sample that has made purchases online	94.7%

Table 3: Means, Standard Deviations and Correlations of Variables

Variables	M	SD	1	2	3	4	5
1 Behavioural engagement	2.51	1.10					
2 Communication engagement	2.09	.97	.70				
3 Activity engagement	2.80	.89	.58	.68			
4 Interaction engagement	3.11	.84	.59	.31	.46		
5 Experiential exploration potential	2.60	.90	.55	.54	.67	.58	
6 Informational exploration potential	3.28	.80	.56	.36	.54	.66	.65
7 Sense-making potential	3.88	.83	.35	.20	.29	.57	.37

Notes: all correlations significant at $p < 0.05$ (two-tailed) level.

Appendix: Measures developed and validated for this study

Construct/Item Wording	Composite Reliability	Average Variance Extracted	Completely Standardized Loading (t-Value)
Activity engagement	.85	.65	
The navigation was stimulating			.79 (t=14.66)
The navigation was enjoyable			.81 (t=15.19)
The navigation was exciting			.82 (*)
Interaction engagement	.81	.51	
Interacting with the website gave me answers to my questions			.71 (t=12.38)
I felt as if I was actually getting answers to what I was after on this website			.65 (t=11.08)
This website didn't understand what I'm interested in (R)			.71 (t=12.40)
This website didn't understand my needs (R)			.79 (*)
Communication engagement	.90	.70	
If the website had a function enabling me to register for email alerts, I would register.			.87 (t=23.90)
I would refuse to let this website contact me for special offers or promotions (R)			.57 (t=11.23)
I would like this website to keep in touch with me through email.			.90 (t=26.61)
I would register to receive newsletters from this website			.94 (*)
Behavioural engagement	.94	.80	
I will visit this site first when I want to buy books			.78 (t=18.72)
I plan to use this website in the future			.90 (t=26.38)
I intend to continue using this website in the future			.95 (t=30.30)
I expect my use of this website to continue in the future			.92 (*)

1	Experiential exploration potential	.77	.46
2			
3	This website was incapable of reproducing the excitement of shopping (R)		.63 (*)
4			
5	This website replicated the kind of experience I have when I shop		.67 (t=9.26)
6			
7	When I navigated this website I felt I was shopping for real		.70 (t=9.51)
8			
9			
10	The experience of shopping was not there when I navigated on this site (R)		.73 (t=9.78)
11			
12	Informational exploration potential	.84	.46
13			
14	I could learn a lot about the products		.71 (t=12.46)
15			
16	This website provided complete product description		.60 (t=10.21)
17			
18	This website adequately met my information needs		.78 (*)
19			
20	This site had insufficient product information (R)		.71 (t=12.32)
21			
22	There wasn't enough information on this website to make a purchase decision (R)		.60 (t=10.27)
23			
24	There was enough information on this website to assess the products		.65 (t=11.14)
25			
26			
27			
28			
29	Sense-making potential	.88	.47
30			
31	The content on the website was clear		.80 (t=11.79)
32			
33	The information on this website was disorganized (R)		.65 (t=9.93)
34			
35	The organization of the information presented on the screen was confusing (R)		.66 (*)
36			
37	The content on this site was well organized		.67 (t=10.27)
38			
39	My interaction with this website is clear and understandable		.75 (t=11.22)
40			
41	The web pages were easy to read		.70 (t=10.55)
42			
43	The links and buttons on this website made sense		.64 (t=9.78)
44			
45	The categories and buttons were difficult to understand (R)		.63 (t=9.73)
46			
47			
48			
49			
50	$\chi^2=893.87$, $df=474$ ($p=.000$); $RMSEA = .054$; $CFI = .98$; $n=301$; $SRMR = .056$		
51			
52	<i>*The metric for each scale was established by fixing one of the construct indicators to 1.00.</i>		
53			
54	<i>(R): Item was reverse-scored.</i>		
55			
56			
57			
58			
59			
60			