Effect Brand Psychological Ownership and Value Congruity to Brand Attachment and Behavioral Brand Loyalty Through Customer Brand Engagement

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Abstract
This study aims to analyze the effect of brand psychological ownership and brand value congruity on brand attachment and behavioral brand loyalty through customer brand engagement. Data collection uses secondary data in the form of scientific journals related to the variables studied, and primary data in the form of google form questionnaires distributed to customers of PT. Abadi CitaSelaras attracted 38 customers. The data processing technique uses path analysis with the help of SmartPLS 3.0 software. The results showed that all of the effects of brand psychological ownership to customer brand engagement, value congruity to customer brand engagement, customer brand engagement to brand attachment, customer brand engagement to brand loyalty, brand psychological ownership to customer brand attachment, and value congruity to brand loyalty are positive and significant.

Keywords
Brand psychological ownership, value congruity, brand attachment, behavioral brand loyalty, customer brand engagement.

1. Introduction
The medical services industry in Indonesia is a tantalizing speculative opportunity as the development of this industry has driven demand in almost all parts of the business from clinics to medicines to clinical gadgets. This increase in demand will increase the income of the medical services industry and attract Indonesians seeking clinical therapy abroad to spend domestically. More than 1.2 million Indonesians spend more than US$2 billion annually on medical care overseas, mainly in neighboring Singapore and Malaysia (Medina 2020).

The increasing demand for the medical equipment industry is a breath of fresh air for players in this industry, one of them is PT. Abadi CitaSelaras (PT. ACS) which is located in South Tangerang City, Banten Province, Indonesia. This company is a distributor of medical equipment, including guiding catheters, manifolds, infusion sets, latex gloves, and masks. Because the company has just launched a new guiding catheter product with the Asahi Sion Blue and Cordis brands and its sales are not yet stable, therefore it is necessary to investigate how customers are engaged with these new brands.

1.1 Objectives
The objective of this study is to observe the influence of brand psychological ownership to customer brand engagement, value congruity to customer engagement, customer brand engagement to brand attachment, customer brand engagement to brand loyalty, brand psychological ownership to customer brand attachment, and value congruity to brand loyalty.

2. Literature Review
Psychological ownership
The concept of psychological ownership can be directed at the organisation (or workplace) as a whole or at specific aspects of the organisation such as the group, job and work tools (Hou et al. 2009). Collective psychological
ownership, indicating personal feelings of shared ownership at a group level, is more pervasive in collective cultures because individuals with collectivistic values see themselves as intimately connected to their in-groups and are, therefore, more inclined to perceive ownership of objects from a shared (“our”) context (Kou & Powpaka, 2021).

Psychological ownership, the feeling that an object is “mine,” emerges from three mechanisms: control over the object, intimate knowledge, and investment of the self (Xiong et al., 2019) and (Kuchmaner et al., 2019). The concept of psychological ownership can be defined as “the relationship between an individual and an object, in which the object is experienced as having a close connection with the self”. Psychological ownership involves both a cognitive state such as personal awareness, thought, and belief, and an affective or emotional state. Third, this phenomenon is linked with one's self-concept (Hillenbrand & Money, 2015). According to Pierce et al. (2001), when one owns something, the target of possession becomes bonded with the self (Lee & Kim, 2020).

Value Congruity
The value congruity construct suggests that the conveyance of value-added services could be a key component for effective brands, especially due to their heterogeneity characteristics. In this manner, the congruity (i.e., when there is a seen fit) between the customers’ and the brands’ values can lead to favorable psychological outcomes (e.g., belief, fulfillment and positive behavioral eagerly, etc.). In this manner, the consumers’ distinguishing proof with the brands and their offerings is likely to be driven by the brands’ identities. Several researchers within the branding space have famous such seen congruity between the brands and their consumers’ identities. When the brands’ values are congruent with their customers’ values; it is very likely that there is increased consumer–brand engagement and identification. The indicators of brand value congruity are 1) understanding of the core values 2) support the intent of the core values, and 3) brand’s core values represent. There is interrelationship among value congruity, customer–brand identification, affective brand commitment, customer–brand engagement and customer loyalty (Rather & Camilleri, 2019). Value congruity has always been greatly considered by human in developing and maintaining relationships (Yuniari, 2020).

Customer Brand Engagement
The notion of customer–brand engagement has been defined as a customers' motivationally driven volitional investment of operand/operant resources in brand interactions, and it has gotten a lot of scholarly attention in the previous decade. As engaged customers actively participate in innovative service and product development, are less price sensitive, resist switching, and advocate for brands/firms, customer–brand engagement is gaining traction. Given the interactive nature of the engagement, service brands and/or situations have been identified as having particular applicability for the notion. Even though the practitioner and academic communities have paid increasing attention to the topic of customer–brand interaction, critical knowledge gaps still exist. Despite the growing interest in establishing customer–brand interaction, empirical research is limited, and little is known about the role of customer–brand engagement in fostering consumer behaviors like loyalty in an isolated model. Despite the fact that little research has been done on customer–brand engagement in the context of hospitality brands, a better understanding of this concept is critical (Rather & Camilleri, 2019). Value congruity has a positive influence on customer brand engagement (Yuniari, 2020). CBE has been defined as a customer’s resource investment in his/her brand interactions, highlighting its interactive nature that differentiates it from related concepts, including involvement or commitment views interaction as an interpersonal communication, thus incorporating both face-to-face and remote (e.g. platform-mediated) interactions within its scope (Hollebeek et al., 2021). Engagement with the brand results in psychological consequences such as enhanced self-brand association/ connection and brand possession recall, both of which are essentially similar to the two dimensions of brand attachment, i.e. self-brand connection and brand prominence (Kumar & Nayak, 2019).

Customer Brand Loyalty
Brand loyalty indicates that consumers have positive attitudes toward a particular brand and are inclined to regularly purchase this brand. Brand loyalty is essential for succeeding and accomplishing marketing strategies and related research. Brand loyalty has behavioral and attitudinal components (Li et al., 2020). Brand image is an important factor in creating brand loyalty and thus strengthening brand equity. In managerial terms, our approach emphasises three specific routes to brand loyalty (affective, cognitive and normative) (Diallo et al., 2021). The behavioural perspective
of brand loyalty has been normally measured via repurchase behaviour, share of wallet and quantity of brand purchases, and frequency of purchase (Kosiba et al. 2018).

**Brand Attachment**

Its definition refers to “an emotion-laden target-specific bond between a consumer and a specific brand”. It refers to the emotional bond between a consumer and a brand, just as in the relationship between a child and his or her caregiver where attachment is essentially created through strong feelings (Huaman-Ramirez & Merunka 2019). Brand attachment is embodied by customers’ experiences and memories of a brand; they reported that brand attachment plays an important role in the development of positive behavioral intentions (Hwang et al. 2021). There are four dimensions to measuring brand attachment: resonance, bonding, companionship and love (Bidmon 2017).

3. Methods

The research method used is quantitative research with causal research type. Determination of the number of samples using census. Census refers to the quantitative research method, in which all the members of the population are investigated (Surbhi 2017). By using this method, the number of samples is the same as the total population of 38 hospital managers.

4. Data Collection

A questionnaire with a semantic differential measurement scale was utilized to collect data. PLS-SEM (Hair et al. 2017) with SmartPLS 3.3 software (Ringle et al. 2015) was used to process and analyze responses to the questionnaire items.

5. Results and Discussion

Characteristics of respondents include age of hospital, customer location, and customer expenses shown by Figure 1, Figure 2, and Figure 3 respectively. According to Figure 1, the percentage of hospital age is 0 - 10 years by 30%, 11 - 20 years by 20%, 21 - 30 years by 35 years, 31 - 40 years by 10%, and over 40 years by 5%. The largest percentage of hospital age is 21 - 30 years, which is 35%. From Figure 2 noted that most of the customers are in Jakarta, Bogor, Depok, Tangerang, and Bekasi (JABODETABEK) areas, which is 79% while the remaining 21% are located outside JABODETABEK. Figure 3 denotes customer expenses are grouped into 3 categories, namely below 40 million rupiahs by 20%, between 40 million rupiahs to 60 million rupiahs by 64% and above 60 million rupiahs by 16%.

5.1 Numerical Results

**Outer Model**

The PLS-SEM examination produces two estimations: the outer and inner models (Hair et al. 2017). The outrageous model is utilized to survey the instrument's validity and dependability. Table 1 shows the aftereffects of the outer model. The loading factor marker a value for every variable is more significant than 0.7 (Hair et al. 2017). Similarly, the average variance extracted (AVE) value is higher than 0.5 (Hair et al. 2017). This value demonstrates that convergent validity is extremely acceptable. The reliability test alludes to the CompositeReliability (CR) and Cronbach Alpha (CA) values. Thus, every variable has a CR and CA worth of more than 0.7 so the indicators used to measure every variable have a high level of consistency.

Table 1. Loading Factor, AVE, CA, and CR
In Table 2 above, the results of the discriminant validity analysis, namely the Fornell Larcker Criterion (Chatarsis, 2019) which is the root value of the AVE of each construct, is greater than its correlation with other variables. The Brand Attachment (BA) root value of AVE is 0.863, which is greater than its correlation with other constructs, namely Brand Loyalty (BL) of 0.762, Brand Psychological Ownership (BPO) of 0.793, with Customer Brand Engagement (CBE) of 0.825, and Value Congruity (VC) is 0.623. And so on for the other constructs, namely Brand Loyalty (BL),
Brand Psychological Ownership (BPO), Customer Brand Engagement (CBE), and Value Congruity construct meets discriminant validity.

<table>
<thead>
<tr>
<th>Original Sample</th>
<th>STDEV</th>
<th>T Statistics</th>
<th>P Values</th>
<th>R-Square</th>
<th>Q-Square</th>
<th>F-Square</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPO -&gt; BA</td>
<td>0.392</td>
<td>0.128</td>
<td>3.062</td>
<td>0.002</td>
<td>0.745</td>
<td>0.540</td>
</tr>
<tr>
<td>CBE -&gt; BA</td>
<td>0.526</td>
<td>0.136</td>
<td>3.872</td>
<td>0.000</td>
<td>0.704</td>
<td>0.438</td>
</tr>
<tr>
<td>CBE -&gt; BL</td>
<td>0.482</td>
<td>0.162</td>
<td>2.977</td>
<td>0.003</td>
<td>0.704</td>
<td>0.438</td>
</tr>
<tr>
<td>VC -&gt; BL</td>
<td>0.404</td>
<td>0.164</td>
<td>2.465</td>
<td>0.014</td>
<td>0.707</td>
<td>0.529</td>
</tr>
<tr>
<td>BPO -&gt; CBE</td>
<td>0.399</td>
<td>0.124</td>
<td>3.228</td>
<td>0.001</td>
<td>0.707</td>
<td>0.529</td>
</tr>
<tr>
<td>VC -&gt; CBE</td>
<td>0.508</td>
<td>0.126</td>
<td>4.029</td>
<td>0.000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

To know the size of the impact between variables, allude to the F-Square value (Table 3). Brand Psychological Ownership (BPO) has a medium affects to Brand Attachment (BA); Customer Brand Engagement (CBE) and Value Congruity (VC) has a medium affects to Brand Loyalty (BL); and Brand Psychological Ownership (BPO) also has a medium effects on Customer Brand Engagement (CBE); while Customer Brand Engagement (CBE) has a large effect to Brand Attachment (BA), and also Value Congruity (VC) has a large affects to Customer Brand Engagement (CBE). Guidelines for assessing $f^2$ are that values of 0.02, 0.15, and 0.35, respectively, represent small, medium, and large effects of the exogenous latent variable. Effect size values of less than 0.02 indicate that there is no effect.

Furthermore, R Square statistics explains the variance in the endogenous variable explained by the exogenous variable(s) (Kh. Fawad, 2022). In Table 3 the R-Square of Brand Attachment (BA) is 0.745 implies that Brand Psychological Ownership (BPO) and Customer Brand Engagement (CBE) contribute 74.5% in shaping a Brand Attachment (BA). The R-Square value of Brand Loyalty (BL) is 0.704 proves that Customer Brand Engagement (CBE) and Value Congruity (VC) contribute 70.4% in shaping a Brand Loyalty (BL). The next R-Square value is for the Customer Brand Engagement (CBE) construct where the value is 0.707 indicating that Brand Psychological Ownership (BPO) and Value Congruity (VC) contribute 70.7% in forming CBE.

Another important measurement is Q Square (predictive relevance), measures whether a model has predictive relevance or not (≥ 0 is good). From Table 3 all of the Q Square values > 0. From Table 3 found that the model has predictive relevance (Kh. Fawad, 2022).

5.2 Graphical Results
The structural model's path coefficients are interpreted as standardized OLS (ordinary least square) regression coefficients. A report of the results of structural model estimates is shown in Figure 4 and Table 3.
5.3 Proposed Improvements
The quality of numerical and graphical results still need to be increased.

5.4 Validation

The Research Hypotheses
Ho1: Brand Psychological Ownership (BPO) does not affect Customer Brand Engagement (CBE).
Ha1: Brand Psychological Ownership (BPO) affects Customer Brand Engagement (CBE).

Ho2: Value Congruity (VC) does not affect Customer Brand Engagement (CBE).
Ha2: Value Congruity (VC) affects Customer Brand Engagement (CBE).

Ho3: Customer Brand Engagement (CBE) does not affect Brand Attachment (BA).
Ha3: Customer Brand Engagement (CBE) affects Brand Attachment (BA).

Ho4: Customer Brand Engagement (CBE) does not affect Brand Loyalty (BL).
Ha4: Customer Brand Engagement (CBE) affects Brand Loyalty (BL).

Ho5: Brand Psychological Ownership (BPO) does not affect Brand Attachment (BA).
Ha5: Brand Psychological Ownership (BPO) affects Brand Attachment (BA).

Ho6: Value Congruity (VC) does not affect Brand Loyalty (BL).
Ha6: Value Congruity (VC) affects Brand Loyalty (BL).

6. Conclusion
This study especially analyzed the effects of brand psychological ownership to customer brand engagement, value congruity to customer brand engagement, customer brand engagement to brand attachment, customer brand engagement to brand loyalty, brand psychological ownership to customer brand attachment, and value congruity to brand loyalty are positive and significant. The highest indicator based on filling out the questionnaire is in the customer brand engagement variable, namely using the brand gets to think about the brand, which means that customers are happy to use the brand and the impact will remember the brand, so companies need to increase brand awareness to customers. While the indicator that has the lowest score is commitment feelings towards the brand which is an indicator of the brand loyalty variable which shows that customers are less committed to the brand so that the company needs to improve the quality of its products so that customers are committed to using the company's brand.
References


Biographies

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