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# Factors Influencing Consumer Behavior to Purchase Sustainable Cosmetic Products in a German Context

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#### ABSTRACT

In today's markets, corporate social responsibility is a new consumer expectation. Organizations across all industries are trying to meet these expectations by building a positive reputation and sending a signal to their stakeholders. However, consumers' environmental behavior is not always the result of their positive attitudes towards environmental issues. Potentially, their environmentally friendly attitudes are contradicted by their actual behavior. This means that people, who have positive attitudes about sustainable products and state that they would purchase them, may not actually buy them after all. In addition, consumers often do not wish to spend more money on buying sustainably, even if they have higher expectations towards sustainable products or companies. Further research is therefore needed to explain the gap between consumer awareness and actual purchasing behavior. In several contexts, environmentally friendly consumption, called sustainable consumption, has been explained by the theory of planned behavior (TPB), such as when buying food or apparel. Sustainable consumption often results from planned decisions rather than hedonic reasons. Keywords: environmental purchase decisions, sustainable consumption, sustainable consumption, behavior

#### **INTRODUCTION**

Very few topics have experienced a newfound and revived interest in the recent decade alike the topic of sustainability (*Gonzalez*, 2018; *McDonald et al.*, 2012; *Miniero et al.*, 2014; *White et al.*, 2019). Already in 1987, the *Brundtland Report* formulated by the United Nations constituted that the continuance of human civilization required of each generation to engage in business practices that safeguarded not only the current generation's livelihood but also the one of generations to come (*Brundtland*, 1987). Subsequently, the view on environmental and sustainability concerns as being instrumental and relevant not only for mankind but especially the economic sector, has grown. Increasingly experiencing the effects of climate change, with water and clean air resources drastically diminishing, and pictures of entire slums being built and one-use plastic have led to the topic of sustainability moving to the forefront of our everyday lives as well as business practices. While in the latter the term "triple-bottom" line was coined as a strategic mean to value environmental goals equivalently to social and economic ones (*European Commission*, 2001), environmental awareness has been of interest to the individual consumer for a few years and cumulated recently into activism

throughout all demographics and nearly all levels of society with individuals like Greta Thunberg being defined as the figurehead of these movements.

Indisputably, individual and social activism is needed in order to tackle the multitude of problems society is already and will be facing furthermore in the future in terms of providing amongst others habitable land, potable water, clean air to breathe. But of corresponding value will be the organized activism of organizations, corporations, economies and governments as the latter define and subsidize the framework for individuals and companies alike to pursue a more sustainable lifestyle, while organizations and companies, which focus on their triple-bottom line and make this an inherent element of their mission, proliferate opportunities for individuals to bring their natural interest of caring for this planet into the workplace as well.

Since the topic of sustainability has become of increasing interest in the last decade, a number of industries have invested into adapting their operations accordingly (e.g. coffee, automobile, consumer goods) (Chang and Watchravesringkan, 2018). Recently, another industry has started to incorporate more strongly a more sustainable mindset into its production by sourcing and utilizing more organic ingredients (Ashraf et al., 2019; Demirtas, 2018; Emekci, 2019; Tarkiainen, 2005). This industry is the cosmetics industry, which will be the focus of the following analysis. From the outset, it must be mentioned that cosmetics in the understanding of this paper refers to not only makeup and toiletries but also skin- and haircare as well as perfumes and hygiene articles. It is important to make this distinction as 'cosmetics' might at first only be associated with products naturally more of interest to women. However, given the five categories mentioned above, make-up only amounts to 19% of the cosmetic market, whereby skin- and haircare are in fact the largest categories with 39% and 21% respectively (L'Oréal, 2015). In addition to a market that is split into only a small number of main product categories which appeal to a large segment of the society, the fact that the cosmetics market is largely controlled by five multinational enterprises making up 50% of the market share (Vazquez-Burguete et al., 2017) facilitated the decision to place the study into this context.

The main goal of this research is to analyze which factors influence German consumers in their purchasing behavior when buying sustainable cosmetic products. With the next section explaining the utilized model of *Theory of Planned Behavior*, further sections provide information regarding the structure, distribution and implementation of an online survey that was run for two months in the summer of 2019 and amounted to 268 responses in total, out of which in the end n=245 were used in the analysis. Eventually, a discussion of the findings will be provided and a conclusion drawn before the paper closes with a short reflection on the limitations this research encountered.

#### **CONCEPTUAL FRAMEWORK**

The *Theory of Planned Behavior* model (TPB) focuses on the attitudes and behavior that have the strongest impact on an individual's purchasing choices (*Ajzen*, 1985, 1991). The model hereby demonstrates the relation between five constructs – attitude, subjective norms, purchase intention, perceived behavioral control and behavior (*Ajzen*, 2008) – and how each of them influences the individual's purchase intention.

Through the application of the TPB, researchers have been able to provide stable evidence of consumption patterns and purchasing intensions (Conner et al., 2000; Martin et al., 2010; Norman et al., 1999; Zemore and Aizen, 2014). Aside from being a well-received and -researched model, another strength of the TPB is the possibility to extend the model for further constructs, which might be of particular interest with regards to the research field. In the underlying research, two additional constructs were added, namely trustworthiness and perceived consumer effectiveness. While each of the constructs will be analyzed individually in the following, it must be said that the reason to append the original model was twofold. First, since cosmetic products can directly impact on a person's health if hazardous ingredients are used, trusting a product or a company is the basis for the consumer to even consider engaging in purchasing behavior (Pudaruth et al., 2015). Secondly, individuals often state that they feel their own individual contribution to live a more sustainable, eco-friendly life, but it does not have a measurable effect (Newsom et al., 2005; Paladino, 2005; Peattie, 2001). Thus, in the context of cosmetic products it is especially interesting to see whether the consumption of products in daily use and towards the improvement of external characteristics of the consumer is significantly shaped by the intrinsic motivation of an individual to primarily purchase eco-friendlier options for the benefit of sustainability.

## Trustworthiness

As mentioned before, the construct of trustworthiness was added to the original TPB model because it is believed that consumers engaged in purchasing intentions need to be willing to rely on the information provided by the seller of being true (*Jarvenpaa et al.*, 2000). While the concept of trust has been researched in a multitude of different research fields, in the context of consumer behavior it has been found that trust is a factor any consumer engages in on different levels during the purchasing experience (*Sekhon et al.*, 2014). The psychological process involved herein accumulates in customers believing and trusting the integrity of a cosmetic producer and thus considering to purchase one of their products (*Berry and Parasuraman*, 1991). In this way, trust becomes an instrumental and integral part of a consumer's attitude towards a potential purchase.

H1: The greater the trustworthiness (TW) of sustainable cosmetics is, the greater the purchase intention (PI) for sustainable cosmetics is.

## Subjective norms

When speaking of subjective norms, both innate and indiscernible pressures presented to the consumer through the upbringing, socialization and environment as well as more offensive, external expressions of peer pressure are referred to. In this understanding, subjective norms describe the social environment each consumer finds themselves in and that shapes the attitudes towards a certain product as much as it is a determent of the purchasing intention (*Du et al.*, 2017; *Teng and Lu*, 2016; *Hansen et al.*, 2018). *Newholm and Shaw* (2002) found that with the more globalized, digitalized and also more expressive world of today social norms were also constructed and influenced through various channels of the media, pop culture and education. In aggregation, social norms are the pressures each individual perceives as

motivating influences to comply in the purchasing behavior with important persons of reference or in order to confirm with perceived expectations.

H2: The greater the influence of the subjective norm (SN) on the purchase of sustainable cosmetics is, the greater the purchase intention (PI) for sustainable cosmetics is.

# Attitudes

In the original TPB model, *Ajzen* 1991 stated that positive attitudes towards a product lead to a more favourable evaluation of the product by the consumer. Attitudes develop from an individual's belief about what performing a certain act (*Fishbein and Ajzen*, 1975) means, and similarly to subjective norms, are formed by the social environment, health concerns, product quality, the environmental knowledge and consciousness of the individual consumer (*Demirtas*, 2019) and the experiences any consumer has and makes throughout life. Attitudes can be both positive and negative but it is presumed that a more positive attitude towards a product leads to a higher likelihood of the positive consequences of an engagement in purchasing intention.

H3: The more positive the attitude (AT) towards sustainable cosmetics is, the greater the purchase intention (PI) for sustainable cosmetics is.

# Perceived behavioral control

While an individual's impact on any purchasing decision might be limited, in the context of sustainable consumption, the perceived behavioral control gains additional weight as despite their environmental intentions, sustainably minded consumers might end up not purchasing the more sustainable product (*Carrington et al.*, 2010) for either of the following two reasons. Either, because the perception is that purchasing a sustainable product brings no added value if the majority of customers remains purchasing traditionally less eco-friendly products or because the products are too expensive or not readily available enough for the consumer to be willing to go through the additional effort. Thus, the contemplation of individual perceived behavior control must occur before the intention of engaging in a purchase intent even begins, as only this way a positive outcome of the consideration leads to purchase intent and behavior (*Chang and Watchravesringkan*, 2018).

H4: The greater the perceived behavioral control (PBC) in relation to the purchase of sustainable cosmetics is, the greater the purchase intention (PI) for sustainable cosmetics is.

Given the second dimension of PBC mentioned before, it is also described as the perceived difficulty or ease of an individual being able to carry out behavior and being able to overcome any volatile external factors that might interfere with a person's actual behavior towards purchasing a sustainable cosmetic product (*Ajzen*, 1991; *Taylor and Todd*, 1995).

H5: The greater the perceived behavioral control (PBC) in relation to the purchase of sustainable cosmetics is, the more positive the actual behavior (BE) to buy sustainable cosmetics is.

# Perceived consumer effectiveness

Along the same lines of PBC, the belief that the individual's actions might have a positive impact on solving an environmental issue as a result of the individual efforts (*Gonzalez et al.*, 2015) plays a large role in the constitution of an individual's belief system. Similarly, to TW, PCE is a mainly psychological variable that attempts to explain certain attitudes

found and yet has been to be one of the best predictors for ecologically conscious behavior (*Akehurst et al.*, 2012; *Straughan and Roberts*, 1999; *Moisander*, 2007).

H6: The greater the perceived consumer effectiveness (PCE) through the use of environmentally friendly products is, the more positive the attitude (AT) towards sustainable cosmetics is.

### **Purchase Intention**

Eventually, the main indicator in the TPB is the intent, as the best indicator and determining factor for a purchasing behavior (*Singh and Verma*, 2017). The intent is viewed as the most important and best predictor because it can also be seen as a direct antecedent of behaviour (*Fishbein and Ajzen*, 1975). Yet, good intentions alone do not always translate into behavior in cases where other factors become overwhelming (e.g. price or previous experiences) (*Bray et al.*, 2011) and overshadow the intent. According to TPB, the execution of behavior is the joint function of intentions and perceived behavioral control (*Tarkianinen and Sundqvist*, 2005)

H7: The more positive the purchase intention (PI) for sustainable cosmetics is, the more positive the actual behavior (BE) for sustainable cosmetics is.

### Survey and items

The survey used in this research consisted of a total number of 29 questions with at least two questions (items) being allocated to each of the previously described constructs. The items were confirmed through the research of *Ashraf et al.* (2019), *Demirtas* (2019) and *Emekci* (2019). The survey closed with four questions regarding the demographics of the respondents and a comment box for open-ended feedback.

## MATERIALS AND METHODS

The constructs of the developed explanatory model for the acceptance of sustainable cosmetics are latent variables that were measured based on established scales. The scales were adapted to the present context and translated into German. A 5-point Likert scale was used continuously to measure the items. While the construct *Subjective norms* is a formative latent variable, the other variables were operationalized reflectively. The data collection was conducted as an online survey from July 30<sup>th</sup> to September 26<sup>th</sup> 2019. In total, there were 268 returns. All data records with more than 20% missing values were removed (22 cases and 1 question). The remaining data set still contains 0.15% missing values, which is however only a small percentage. Nevertheless, since the estimates of structural equation models require complete data sets (*Weiber and Mühlhaus*, 2013), the missing values were supplemented by mean value replacement. One disadvantage of using the mean value is a possible distortion of the quantiles or variances (*Göthlich*, 2009). However, due to the very low proportion of missing values, the risk is assessed as very low and this procedure is applied.

Thus, a total of n=245 data records are available. The sample consists of 66.12% female and 33.88% male respondents. Comparing the ratio to the actual population distribution in Germany (50.65% and 49.35%, respectively), women are overrepresented in the sample. Almost 60% of the participants were between the age of 26 and 45. Only about 16% are younger than 25 years. Slightly more than 24% of

the respondents were 46 years and older. The interviewees over 65 years are relatively underrepresented. Almost 40% have a partner and children. Another 35.5% live with a partner but without children. Nearly 25% are single or widowed and are focusing entirely on themselves in their decision-making process.

For the first assessment of the data set, the position and scattering measures were checked. It can be seen that the respondents used the entire scale (1-5) for almost all indicators. Six indicators have a median of 5 and a standard deviation of less than 0.84. This suggests that most of the respondents have the same subjective perception for these six indicators.

## **RESULTS AND DISCUSSION**

At first, the reliability of the items was examined (*Table 1*). The factor loadings of 4 items are less than 0.7 and were removed from the measuring model. The remaining factor loadings of items were above 0.704 and significant at p < 0.001.

## Table 1.

Construct	Indicator	Presumed Effect	Loading	t-value	One-sided p-value
Attitude	AT_001	+	0.704	16.343	0.000
	AT_002	+	0.820	25.705	0.000
	AT_003	+	0.836	28.305	0.000
	AT_004	+	0.856	37.933	0.000
	AT_005	+	0.779	20.079	0.000
Behavior	BE_001	+	0.884	60.185	0.000
	BE_002	+	0.823	28.382	0.000
	BE_003	+	0.613	9.197	0.000
Perceived Behavioral Control	PBC_001	+	0.832	34.293	0.000
	PBC_002	-	-0.197	2.024	0.043
	PBC_003	+	0.440	6.040	0.000
	PBC_004	+	0.834	32.263	0.000
	PBC_005	+	0.875	49.021	0.000
Perceived Consumer	PCE_001	+	0.899	40.838	0.000
Effectiveness	PCE_002	+	0.878	27.011	0.000
Purchase Intention	PI_001	+	0.913	77.433	0.000
	PI_002	+	0.895	43.550	0.000
Trustworthiness	TW_001	+	0.484	2.987	0.003
	TW_002	+	0.749	15.166	0.000
	TW_003	+	0.788	19.156	0.000
	TW_004	+	0.828	21.206	0.000

## Reliability of reflective indicators

In a next step, the internal consistency reliability and the convergent validity of the reflective multi-item scales were evaluated by calculating Cronbach's alpha, average variance extracted (AVE) and internal consistence value (IC).

All Cronbach's alphas exceeded the required value of 0.7 (*Nunnally and Bernstein*, 1994) and every AVE as well as IC value clearly surpassed the required threshold value of 0.5 and 0.6 respectively (*Bagozzi and Yi*, 1988). Discriminant validity based on Fornell-Larcker was fulfilled (*Table 2*). Furthermore, evaluating of the cross loadings show that no indicator loading is higher compared to the other constructs than its own construct (*Homburg and Giering*, 1996).

#### Table 2

	AVE	Attitude	Behavior	Perceived Behavioral Control	Perceived Consumer Effectiveness	<b>Purchase</b> Intention
Attitude	0.641					
Behavior	0.809	0.566				
Perceived Behavioral Control	0.747	0.683	0.742			
Perceived Consumer Effectiveness	0.789	0.433	0.530	0.462		
Purchase Intention	0.817	0.529	0.660	0.669	0.583	
Trustworthiness	0.665	0.556	0.452	0.536	0.351	0.373

Squared construct correlations and AVE values

Turning to the formative measured construct, all item weights of the formative measurement models are positive and differ significantly from zero. One item does not show a positive weight as assumed but in fact a negative one (PBC\_002). Since the t-value is also not significant, this item was removed from the model. The t-values of the other two items are significant or even highly significant. After elimination, the remaining VIF values are all less than 2. There are no problems detectable due to multicollinearities (*Hair et al.*, 2017).

On the basis of a valid measuring model, a structural model was analyzed by examining the explanatory power of the model as well as the predictive power of the respective independent variables. To test the theoretical models, PLS path modelling using the software application SmartPLS 3 was applied (*Ringle et al.*, 2015). As no multicollinearity issues were perceived and inner VIFs showed values less than five (*Hair et al.*, 2017), the explanatory power by examining R<sup>2</sup> of the main dependent variables was assessed first. The endogenous variables are determined by the coefficient of determination R<sup>2</sup>adj. *Purchase*  *Intention* shows an  $R^2_{adj}$  of 45% and *Behavior* 60%. Both have a moderate explanatory power. *Attitude* shows an  $R^2_{adj}$  of only 18% and falls below the limit of weak explanatory power. In the next step, the predictive power of the independent variables was analyzed by examining the standardized estimates of path coefficients and their significance (*Figure 1*).

### Figure 1.



Path analysis results

In the hypothesized model, five out of seven path coefficients are significant. The results confirm most of the constructs of the original TPB model. *Purchase intention* ( $\beta$ =0.297, p≤0.001, f<sup>2</sup>=0.12) has a positive influence on *behaviour*. Also perceived *behavioral control* shows nearly the same impact on purchase intention ( $\beta$ =0.575, p≤0.001, f<sup>2</sup>=0.30) as the *behaviour* ( $\beta$ =0.543, p≤0.001, f<sup>2</sup>=0.41). The *subjective norms* show an insignificant and very low impact ( $\beta$ =0.03, p≥0.1, f<sup>2</sup>=0.001). It seems that the *subjective norms*, other than in the TPB model, have no effect on the *purchase intention*. The last TPB-construct is *attitude*. This shows a significant but limited influence on *purchase intention* ( $\beta$ =0.132, p≤0.1, f<sup>2</sup>=0.01). The *perceived consumer effectiveness* shows a significant impact on *attitudes* ( $\beta$ =0.43, p≤0.001, f<sup>2</sup>=0.23). The additional construct *trustworthiness* has no impact on *purchase intention* ( $\beta$ =0.02, p≥0.1, f<sup>2</sup>=0.001). The blind folding shows that the prediction relevance of the model is given, as all values are larger than 0 (*Weiber and Mühlhaus*, 2013).

#### CONCLUSION

Based on the TPB model, the perceived behavioral control shows an impact on the purchase intention and buying behavior of sustainable cosmetics. Therefore, it

<sup>(\*\*\*</sup> p < 0.001; \* p < 0.10; without \* = not significant)

should be important to give the customers the opportunity to inform themselves and decide to buy without external control. It makes sense to include this freedom of choice in marketing communication.

Both an improved perceived company image as well as social pressure were found to be irrelevant for the consumer in this analysis. Similarly, trustworthiness showed no influence on the intention to purchase a sustainable cosmetic product.

The median of attitudes of 5 shows that the interviewee's convictions towards sustainable cosmetics is generally very similar. However, the variance explained by the model is only low indicating that there must be other influencing variables. These should be determined in further research with a focus on explaining the attitude and intention to buy. Furthermore, this research paper did not look for moderating variables, which future research could include.

The perceived consumer effectiveness has a high influence on the attitude. The respondents have the feeling that with sustainable cosmetics and other environmentally friendly products they are protecting the environment and making a positive contribution. The survey was conducted exclusively in Germany. However, sustainable cosmetics are also offered in other countries. In order to obtain an international picture of the influence factors and to eliminate social and cultural biases, the same research should be carried out in further countries as well.

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