

APPETITE FOR FAKES:

What drives consumers' choice?

CHOICE EXPERIMENT FOR THE DEMAND FOR COUNTERFEITS WORKSTREAM





This survey has been commissioned to Ipsos European Public Affairs and Centerdata, by the EUIPO

CHOICE EXPERIMENT FOR THE DEMAND FOR COUNTERFEITS WORKSTREAM FINAL REPORT

Catalogue number: TB-05-23-494-EN-NISBN : 978-92-9156-352-4DOI : 10.2814/055782© European Union Intellectual Property Office, 2023Reuse is allowed provided the source is acknowledged and changes are mentioned (CC BY 4.0)



Foreword

Through the European Observatory on Infringements of Intellectual Property Rights, the EUIPO has studied issues related to counterfeit goods for several years. One set of studies, carried out jointly with the Organisation for Economic Co-operation and Development (OECD), has focused on international trade in counterfeit goods, and especially imports of counterfeits into the EU from the rest of the world. These studies have shown that the scale of the problem is huge, with imports of counterfeits into the EU accounting for 5.8% of total imports, valued at 120 billion EUR. In parallel, the EUIPO has carried out a series of sectorial studies which estimate the losses suffered by legitimate industry, and the derived loss of government revenue, as a result of the presence of counterfeits in the marketplace in the EU. Together with Europol, the EUIPO has documented the connection between counterfeiting and other types of IP crime and other types of organised crime, such as money laundering, tax fraud and even human trafficking.

These studies have considered the scale and impact of counterfeiting on the level of the entire economy or individual sectors. Analyses of consumer's perceptions and behaviours have also been regularly carried out as part of the Youth scoreboards and IP perceptions studies.

In order to complete its understanding of the phenomenon, the Observatory has initiated a "Demand for Counterfeits" workstream. Some of the key questions this workstream is designed to address include: Which factors influence consumers? What triggers the purchase of the counterfeit (e.g. being on holiday abroad, difficult economic situation, price of the product, influence of family and friends)?

In early 2021, the Observatory established an Advisory Panel of experts to discuss various aspects of demand for counterfeits. The panel consists of experts, academics, representatives of business associations and consumer organisations. A major subject of discussion was what drives consumer purchases of counterfeit goods. Following a set of meetings held in late 2021, a number of relevant factors were identified, combining insights from other Observatory studies (such as the IP Perception Study and the Youth Scoreboard) with expertise from members of the Advisory Panel.

Given the complexities and lack of empirical data, a conventional econometric analysis of consumer motivation when buying (or not buying) counterfeits is extremely difficult. Therefore, it has been



decided to carry out a choice experiment, a method often used to study the effect of attribute levels on the subject's (here, a consumer's) stated preferences. In this case, the purpose is to investigate the factors that play a role in consumers' decision making when (not) buying counterfeits. This report presents the result of this analysis.

Acknowledgements

The present study was commissioned to Ipsos European Public Affairs and Centerdata by the EUIPO.

The authors would like to thank members of the IP in the Digital World, public awareness and Economics & Statistics Working Groups of the European Observatory on Infringements of Intellectual Property Rights for comments on the Terms of Reference for this study.

The Advisory Panel for the Demand for Counterfeits workstream provided crucial input into the formulation of the research questions.

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Executive Summary

The aim of this study is to develop a fuller understanding of factors that drive the <u>intentional</u> demand for counterfeit goods. Counterfeit products are fakes or unauthorised replicas of the original product, usually illegally marked with logos and brands belonging to the company that sells the original.¹ Sometimes consumers also buy counterfeit goods unintentionally; in the latest EUIPO survey, 10% of those who had not intentionally bought counterfeits found after the purchase that the product they had bought was fake. More than 1/3 of consumers were unsure whether a product they had purchased was genuine². However, such purchases are not governed by the type of decision mechanism analysed in this study and are therefore not included in this report.

Due to the rise of the internet and extended international supply chains, one currently finds counterfeit goods almost everywhere in the world, covering a wide range of product types. The Organisation for Economic Co-operation and Development (OECD) and the European Union Intellectual Property Office (EUIPO) estimate that trade in counterfeit and pirated goods amounted up to 2.5% of world trade in 2019, and constituted around 5.8% of all EU imports in that year, with an overall value of €120 billion.³ There is widespread agreement that the illegal trade in counterfeit goods poses a significant and growing threat to economies worldwide, not only in terms of job and tax loss, but also given the potential harmful effects of counterfeit goods on health, the environment, safety and innovation.⁴ To successfully tackle this issue, a fuller understanding of factors driving intentional consumer demand for these products is necessary, thus providing a basis for this study.

¹ EUIPO (2023). European Citizens and Intellectual Property: Perception, Awareness, and Behaviour - 2023. Available at <u>euipo.europa.eu/tunnel-</u>

web/secure/webdav/guest/document_library/observatory/documents/reports/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/

² Ibid., p. 39.

³ OECD/EUIPO (2022), *Dangerous Fakes: Trade in Counterfeit Goods that Pose Health, Safety and Environmental Risks, Illicit Trade*, OECD Publishing, Paris, <u>https://doi.org/10.1787/117e352b-en</u>; EUIPO & Europol (2022). Intellectual Property Crime Threat Assessment 2022, Publications Office of the European Union, Luxembourg.

⁴ EUIPO (2021). Risks and damages posed by IPR infringement in Europe Awareness campaign 2021. Available at: <u>https://euipo.europa.eu/tunnel-</u>



To determine the key factors of intentional demand for counterfeit products, this study featured an online survey with an experimental component. Unlike traditional consumer surveys, which ask respondents to rate products or product features in isolation, this study presented the respondents with a series of shopping scenarios with various products that entailed different combinations of features. This enabled researchers to simulate real-world purchase decisions and determine which features are most important to consumers and how they trade-off between them. Specific factors analysed as part of this study can be broadly classified into product-specific factors (factors to do with features of interest of the counterfeit product), situation-specific factors (factors related to a situation in which a counterfeit product is purchased), and individual-level factors (relevant personal characteristics of the purchaser). Product-specific factors that were systematically varied as part of the study design included product type, brand, price, quality and the counterfeit's similarity to the original item⁵. Purchase situation-specific factors that were likewise systematically varied included product purchase channel, the perceived risk of punishment, and the perceived health/safety risks linked to the counterfeit product use. Purchasers' personal integrity, value consciousness and need to belong were individual-level factors observed in this study on the basis of personal data provided by the respondents.

The study was conducted online in 10 EU Member States among general population respondents aged 15 or older. Member States included in the study were Estonia, France, Germany, Greece, Italy, the Netherlands, Poland, Romania, Spain and Sweden. These Member States were selected for the survey to represent Western, Southern, Eastern and Northern Europe and also, due to their population size, a considerable portion of the total European population. In total, 20,389 interviews (minimum 2000 per country) were carried out as part of the study fieldwork, which took place online between 21 April and 5 May 2023.

The research conducted for this study shows that intentional demand for counterfeit products continues to be a relatively widespread phenomenon among EU consumers, even if, on average, EU consumers also hold a relatively negative opinion of these products. According to the self-reported behaviour in 10 EU Member States, about a third of EU respondents (34%) indicate to have

web/secure/webdav/guest/document_library/observatory/documents/Awareness_campaigns/spring_campaign_2021/202 1_Spring_Campaign_en.pdf

⁵ Refer to Table 2 for a full list of variations applied as part of the study.



knowingly purchased a counterfeit product at least once in the past. In this group, 5% say that they have often done this, and 24% indicate that they did this less than a year ago. Incidence of intentional counterfeit purchase behaviour is highest in Greece, where 55% admit to having knowingly purchased a counterfeit product at least once. The corresponding rate is lowest in France and Italy (both 19%). On a scale from (1) *negative* to (5) *positive*, general attitude towards counterfeits ranges from 2.3 in Italy and France to 2.8 the Netherlands and Poland.

Furthermore, the study found that consumers' purchase intentions for counterfeit products most strongly depend on personal characteristics: their need to belong⁶, and their personal integrity⁷ (where higher need to belong increases purchase intent for counterfeits and higher personal integrity decreases purchase intent for counterfeits). Consumers' intention to buy a counterfeit product also varies according to the type of product: people are most likely to consider purchasing low-engagement everyday items, represented by a bar of hand soap, followed by high-engagement items (investment item represented by a kettle and a "splurge" item represented by a pair of sunglasses, respectively)⁸. Finally, value consciousness⁹ and brand type (everyday brand vs. high status brand) also play a role in purchase intent for counterfeit products, with more value conscious consumers less likely to show purchase intent for counterfeit products and everyday brands generating higher purchase intent than high-status brands. Other factors studied, while all statistically significant, were

⁶ This characteristic was measured by means of a question asking respondents to indicate their agreement with a series of statements, e.g., "it is important that others like the products and brands I buy". For a full list of statements evaluated, refer to Q12 in Appendix A.

⁷ This characteristic was measured by means of a question asking respondents to evaluate a series of behaviours, e.g., "getting too much change and not saying anything", as wrong or not wrong. For a full list of behaviours evaluated, refer to Q16 in Appendix A.

⁸ Dual Process Theory, as introduced by Daniel Kahneman (2011), suggests that much of humans' behaviour is based on the automatic processing of information (often referred to as System 1 processing), and that humans only rarely engage in more deliberative processing (often referred to as System 2 processing). The study supposes that the majority of everyday purchases are done in System 1 decision-making mode. That said, System 2 decision-making mode may also be at play in certain situations, such as when consumers are faced with higher value or higher personal involvement items (e.g. with goods that can be seen as, so-called, 'investment pieces', or personal accessories that can be seen as 'personal splurges'). Low engagement item in the study was exemplified by a bar of hand soap, while the so-called 'investment piece' was exemplified by a kettle and a 'personal splurge' by a pair of sunglasses.

⁹ This characteristic was measured on the extent of respondents' agreement with a series of statements (e.g., "I always check prices to be sure I get the best value for the money I spend"). For a full list of statements, refer to Q11 in Appendix



of relatively lower impact in terms of driving intentional consumer demand for counterfeit products. These less impactful factors included counterfeit product price level (25% vs. 50% of the original product price), perceived quality, perceived health/safety risks, perceived risk of punishment, and the purchase channel (online vs. offline).

The study also identified five unique consumer segments on the basis of their responses to the product and situation-related factors as well as the person-related characteristics (personal integrity, value consciousness and the need to belong). These groups primarily differ from one another in their intention to purchase counterfeit products, ranging from Segment 1 and Segment 2 with, relatively speaking, the highest intentions to purchase counterfeit products, to Segment 3, Segment 4, and Segment 5 which show low to zero intentions for purchasing counterfeit products.

Segment 1, with the highest intention to purchase counterfeit products, accounts for 18% of total consumers. It is the youngest of all segments, with 43% of all segment members under the age of 35, and the segment with the highest proportion of men (55%). This segment is characterised by a relatively strong need to belong and relatively lower levels of personal integrity and value consciousness compared to the other segments. The tendency of Segment 1 to purchase a counterfeit product depends on the characteristics of the counterfeit product, but not as strongly as with other segments. Notably, Segment 1 is the only segment that is more likely to purchase counterfeit sunglasses (spurge item) than a counterfeit kettle (investment item), which may be related to this segment's higher need to belong expressed through a preference for product types that can offer easy visibility and personal identification.

Largest of all segments, Segment 2 (37% of all consumers), shows no strong intention to buy counterfeit products, but also no clear rejection. Like Segment 1, this segment is characterised by relatively low personal integrity, but value consciousness and the need to belong are not strongly related to being a member in this segment. A bit older than Segment 1 (31% of segment members are under the age of 35), members of Segment 2 are influenced by product characteristics more than the other segments. More specifically, they stand out from the other segments for an outspoken preference for everyday (vs. high engagement) product types, everyday (vs. high-status) brands and for counterfeit products sold at lower prices.

Segments 3 (27% of all consumers), 4 (11% of all consumers) and 5 (7% of all consumers), which have low to no interest in buying counterfeit products, are, on average, older than the first two



segments. Compared to the latter, they also have higher levels of personal integrity and value consciousness, and a lower need to belong. More specifically, Segment 3 can be described as generally unwilling to purchase counterfeit products, although slightly more interested when it comes to an everyday product with no noticeable quality difference or visual difference from the original. Consumers within Segment 4 have a very low intention, on average, to purchase counterfeit products, which is influenced only to a very limited extent by product-specific and situation-specific factors. Finally, since Segment 5 expresses absolutely no interest in buying counterfeit products, characteristics of products and situations have no influence at all within this segment.

The segmentation findings suggest that different approaches/strategies are required to effectively target communications to motivate segments that are prone to purchase counterfeit products to change their behaviour. A more detailed discussion of possible communication approaches towards the various segments is provided in Chapter 4 of this report.

In conclusion, the results of this study indicate that understanding counterfeit purchasing drivers means, in the first place, understanding specific person-level values and psychological needs that drive these behaviours. That said, our findings show that intentions vary according to product, and that consumers also vary from one to another. Therefore, a contextualised understanding of counterfeit behaviours is needed, taking into account values and needs of people and understanding how behaviours shift according to product type.



1 Introduction

This study on the factors that explain why consumers intentionally purchase counterfeit goods, contributes to the EUIPO's overall mission of strengthening Intellectual Property Rights (IPR) across the European Union and beyond. Via its European Observatory on Infringements of Intellectual Property Rights (Observatory), bringing together public and private actors in the fight against piracy and counterfeiting, the EUIPO has studied issues related to counterfeit goods already for several years. In doing so, it mainly focused its quantitative research on the supply side of the phenomenon, i.e. the share of counterfeiting as part of the global economy and various sectors. On the demand side, EUIPO has carried out periodic surveys of EU residents in general (IP Perception studies) and surveys focusing on young Europeans (Youth Scoreboard). The present study seeks to augment this body of research and aims to improve the EUIPO's understanding of counterfeiting as part of its "Demand for Counterfeits" workstream by investigating individual and situation-specific as well as product-specific determinants of the intentional decision to buy counterfeit products through the use of a ratings-based conjoint survey experiment. Ratings-based conjoint experiments explain and predict preference for a specific product on the basis of its underlying features (such as price, brand name, etc.) and other relevant factors (such as the shopping context and individual purchaser characteristics).

The decision to conduct this study, as well as the choice of factors to be studies, was made in close cooperation with the Advisory Panel formed to support the Demand for Counterfeits workstream. This panel includes members drawn from Observatory stakeholders as well as academic experts and consumer organisations who provided valuable insights and feedback on the Terms of Reference for this study and to other activities within the workstream. The Terms of Reference for this study were presented (by written procedure) to the Advisory Panel and to the Economics & Statistics and the IP in the Digital World Working Groups of the Observatory during July-August 2022. The ToR were revised, taking into account suggestions received from the Working Groups and the Advisory Panel. The study was included in the 2023 Work Programme of the Observatory.

1.1 Research context



What drives <u>intentional</u> consumer purchases of counterfeit goods? This is the principal research question this study aims to answer. Counterfeit products are fakes or unauthorised replicas of the original product, usually illegally marked with logos and brands belonging to the company that sells the original.¹⁰ They are, in brief, illegal copies of the original products.¹¹ Due to the rise of the internet and extended international supply chains, one currently finds counterfeit goods almost everywhere in the world. Counterfeit goods involve all types of goods ranging from jewellery and luxury products to everyday products such as toys and games, footwear, clothing, pharmaceuticals, food, beverages, cleaning products and so forth. They can either be sold online, on the street, or in the store. The Organisation for Economic Co-operation and Development (OECD) and the European Union Intellectual Property Office (EUIPO) estimate that trade in counterfeit and pirated goods amounted up to 2.5% of world trade in 2019, and constituted around 5.8% of all EU imports in that year, with an estimated overall value of €120 billion.¹² There is widespread agreement that the illegal trade in counterfeit goods poses a significant and growing threat to economies worldwide, not only in terms of job and tax loss, but also given the potential harmful effects of counterfeit goods on health, the environment, safety and innovation.¹³

In the literature, a common distinction is frequently made between "consumer as victim" and "consumer as willing collaborator".¹⁴ As victims, consumers unintentionally buy counterfeit goods, believing that they are buying authentic items, whilst in reality they are not. The unintentional purchase of counterfeit goods, therefore, results from buyer's inability to differentiate between a counterfeit product and an original product. As willing collaborators, by contrast, consumers

¹⁰ EUIPO (2023). European Citizens and Intellectual Property: Perception, Awareness, and Behaviour - 2023. Available at <u>euipo.europa.eu/tunnel-</u>

web/secure/webdav/guest/document_library/observatory/documents/reports/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/

¹¹ Or, as Rutter and Bryce (2008: 1146) put it, counterfeit goods are: "those goods which illegally imitate, copy, or duplicate a good or use a registered trademark without authorization and, therefore, infringe upon the legal right to copy of the right's owner." Rutter, J., Bryce, J. (2008). The Consumption of Counterfeit Goods: 'Here Be Pirates?', *Sociology, 42(6)*, 1146–1164.

¹² OECD/EUIPO (2022), *Dangerous Fakes: Trade in Counterfeit Goods that Pose Health, Safety and Environmental Risks, Illicit Trade*, OECD Publishing, Paris, <u>https://doi.org/10.1787/117e352b-en</u>; EUIPO & Europol (2022), Intellectual Property Crime Threat Assessment 2022, Publications Office of the European Union, Luxembourg.

¹³ Risks and damages posed by IPR infringement in Europe Awareness campaign 2021, EUIPO

¹⁴ Mavlanova, T., Benbunan-Fich R. (2015). Counterfeit Products on the Internet: The Role of Seller-Level and Product-Level Information. *International Journal of Electronic Commerce*, *15(2)*, 79–104.



intentionally buy counterfeit goods, knowing the item is fake, but purchasing it anyway. This results from a conscious decision-making process which excludes the possibility of consumers being confused about product authenticity.

This study is focused on obtaining a deeper understanding of *intentional* consumer demand for counterfeit products, which represents one of the key factors contributing to the growth of trade in counterfeit products. Specifically, within the European Union (EU) alone, 13% of Europeans report having bought counterfeit products intentionally in the last 12 months.¹⁵ This despite the fact that a clear majority (79%) of EU consumers agree that buying counterfeit goods ruins businesses and jobs.¹⁶ Latest findings, furthermore, indicate that important differences in counterfeiting behaviour exist across European countries.¹⁷ In addition, youngsters between 15 and 24 years old are twice as likely to (admit) buy(ing) counterfeit goods in the last 12 months compared to the EU average (26% vs. 13%).¹⁸

Existing literature suggests a wide array of factors that may influence consumer decisions to buy counterfeit goods, as discussed in more detail in section 1.3. These range from socio-demographic factors (e.g., age, gender, income level, education, cultural norms, national habits regarding counterfeit purchasing, etc.) to purchase-situation factors¹⁹, such as time of the year (holiday period

¹⁶ Ibid 6

¹⁵ EUIPO (2023). European Citizens and Intellectual Property: Perception, Awareness, and Behaviour - 2023. Available at <u>euipo.europa.eu/tunnel-</u>

web/secure/webdav/guest/document_library/observatory/documents/reports/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/2023_IP_Perception_Study/

¹⁷ According to the EUIPO's Intellectual Property: Perception, Awareness, and Behaviour study (2023), the incidence of self-declared purchases of counterfeit goods varies widely across countries, ranging from 24% in Bulgaria, to 8% in Finland. Besides Bulgaria, intentional purchase of counterfeits is higher than the EU average by at least five points in Spain (20%), Ireland (19%), Luxembourg (19%), and Romania (18%).

¹⁸ EUIPO (2023). European Citizens and Intellectual Property: Perception, Awareness, and Behaviour - 2023. Available at <u>euipo.europa.eu/tunnel-</u>

web/secure/webdav/guest/document_library/observatory/documents/reports/2023_IP_Perception_Study/2023_IP_Perce ption_Study_FullR_en.pdf

¹⁹ Chaudhry, P.E., Stumpf, S.A. (2011). Consumer Complicity with Counterfeit Products. *Journal of Consumer Marketing, 28(2)*, 139–151; Whee, C.-H., Tan, S.-J., Cheok, K.-H. (1995). Non-Price Determinants of Intention to Purchase Counterfeit Goods. *International Marketing Review, 12(6)*, 19–46. For an overview, see Penz E., Schlegelmilch, B.B., Stöttinger, B.



vs. at work), place of purchase (with research demonstrating that counterfeiting is more likely to happen online instead of offline as well as in (local) counterfeit markets²⁰). Besides these, also characteristics of counterfeit products themselves impact consumer decision-making on whether or not to buy these goods. One important product characteristic is obviously the price of the product, with expensive products not only more likely to be faked, but also to be bought, as this is (often falsely) perceived by some consumers as an opportunity to save money.²¹ Other counterfeit product characteristics that stimulate the consumption of these goods involve the type of product (e.g. luxury, fashion, pharmaceuticals, etc), the product's popularity, as well as the degree of deception (i.e. to what extent does a product look real) and availability²², among others.

The current study adds to this body of work by investigating the *relative* importance of and *interplay* between various determinants of intentional demand for counterfeit goods, making use of a ratings-based conjoint survey experiment. Ratings-based conjoint experiments, in brief, explain and predict preference for a specific product on the basis of its underlying features (such as price, brand name, etc.) and other relevant factors (such as the shopping context and individual purchaser characteristics).

1.2 Research objectives

The main research objective to investigate the relative importance of determinants of intentional demand for counterfeit goods, can be broken down into three sets of factors that influence the decision to purchase counterfeit goods and that this study aims to take a closer look at:

• Individual-level factors: factors at the level of the individual consumer (e.g. age, gender, cultural norms, moral status, education, etc.) that can influence the purchase of counterfeit

^{(2009).} Voluntary Purchase of Counterfeit Products: Empirical Evidence From Four Countries. *Journal of International Consumer Marketing*, 21(1), 67–84.

²⁰ Rutter, J., Bryce, J. (2008). The Consumption of Counterfeit Goods: 'Here Be Pirates?', Sociology, 42(6), 1146–1164.

²¹ Albers-Miller, N. (1999). Consumer Misbehaviour: Why People Buy Illicit Goods. *Journal of Consumer Marketing, 16(3),* 273–287; Bian, X., Moutinho, L. (2011). Counterfeits and Branded Products: Effects of Counterfeit Ownership. *Journal of Product and Brand Management, 20(5),* 379–393; Wiedmann, K.P., Hennings, N., Siebels, A. (2007).

²² Nia, A., Zaichowsky, J.L. (2000). Do Counterfeits Devalue the Ownership of Luxury Brands? *Journal of Product and Brand Management*, *9*(7), 485–497.



goods; these include also *country-level factors:* factors at the level of the country (e.g. GDP per capita, income inequality, national consumer habits regarding fake goods) that may impact counterfeiting behaviour;

- *Purchase-situation factors:* factors relating to the situation in which / location where the product is being sold (e.g. sales channel, whether the original product is present or not etc.) and that may influence counterfeiting;
- *Product-specific factors:* factors at the level of the specific product (e.g. price, brand, product type etc.) that may trigger the purchase of counterfeit goods.

The objectives of the study are (i) to investigate to what extent these factors determine counterfeit demand, and (ii) how these different factors relate to one another (i.e. what is their relative influence). In discussion with the EUIPO, the study was limited to the behaviour and the associated motivations of the intentional counterfeit buyers.²³

The study was conducted online among the general population of 15 years and older in 10 European Union (EU) Member States: Estonia, France, Germany, Greece, Italy, the Netherlands, Poland, Romania, Spain and Sweden.

The remainder of Chapter 1 includes a literature review, presented in section 1.3. A detailed description of the methodology that was adopted in this study is presented in Chapter 2 and study results are discussed in Chapter 3. Study conclusions can be found in Chapter 4 of the report.

1.3 Literature review

To inform our research design, a literature review was conducted to identify the key determinants of individual demand for counterfeit products as validated by past research. In selecting the determinants to be included in the experiment, a consideration was given to both their relative importance, as reported in the literature, and their actionability for the EUIPO.

²³ Initially, the study also had the goal of exploring to what extent and how the impact of these factors differs according to whether we are dealing with intentional or unintentional decisions to buy counterfeit goods. However, in the course of the project and in consultation with the EUIPO, it was decided to focus the study exclusively on the intentional counterfeit goods buying process, as the unintentional process does not involve a conscious consumer decision or the intention to purchase the counterfeit goods.



Our literature review is based on two recent, scientific review articles of counterfeiting research on demand side which our literature search (e.g., Web of Science) identified as most relevant for the purpose of this study, namely:

- Baruönü Latif, Ö., Kaytaz Yiğit, M., & Kirezli, Ö. (2018). A review of counterfeiting research on demand side: Analysing prior progress and identifying future directions. *The Journal of World Intellectual Property, 21*(5-6), 458-480.
- Elsantil, Y. G., & Hamza, E. G. A. (2021). A review of internal and external factors underlying the purchase of counterfeit products. *Academy of Strategic Management Journal, 20*(1), 1-13.

Both studies provide an analytic overview of demand-side counterfeit studies that examined factors behind intentional consumer motivations for buying counterfeit goods. Baruönü & Kirezli's (2018) article summarises the main findings of 65 scientific articles published in the 37 years preceding the publication, providing not only the list of various factors that play a role in counterfeit purchase intentions but also the direction of impact between each factor and the counterfeit purchase intentions. Elsantil & Hamza (2021) article also provides a review of factors that drive the purchase of counterfeits vs. original products and presents a model which shows that the purchase of counterfeit products is a combination of internal (consumer-related) factors and external (product-related) factors. In developing this model, the authors include 82 existing studies for their review.



Factor	Hypothesised impact on the counterfeit demand
Product-specific factors	
	Product types that typically generate higher consumer
Туре	engagement generate lower demand for counterfeit
туре	products compared to products that are typically
	bought with less engagement. ²⁴
Brand ²⁵	High-status brands generate higher demand for
Dianu	counterfeits than lower status brands.
Price	Lower price (of the counterfeit) generates higher
FILE	demand for counterfeits than higher price.
Quality	Higher quality (of the counterfeit) results in higher
Quality	demand for counterfeits than lower quality.
	Higher degree of similarity to the original product
Similarity to the original	generates higher demand for counterfeits than lower
	degree of similarity to the original product.
Purchase situation-specific factors:	
Perceived risk of punishment	Higher perception of risk reduces consumer demand
reiceived lisk of pullishinent	for counterfeits compared to lower perception of risk.
Perceived health and safety risk	Higher perception of risk reduces consumer demand
received health and salety lisk	for counterfeits compared to lower perception of risk.
Purchase channel	Online channels generate higher demand for
	counterfeits than offline channels.

²⁴ Dual Process Theory, as introduced by Daniel Kahneman (2011), suggests that much of humans' behaviour is based on the automatic processing of information (often referred to as System 1 processing), and that humans only rarely engage in more deliberative processing (often referred to as System 2 processing). The study supposes that the majority of everyday purchases are done in System 1 decision-making mode. That said, System 2 decision-making mode may also be at play in certain situations, such as when consumers are faced with higher value or higher personal involvement items (e.g. with goods that can be seen as, so-called, 'investment pieces', or personal accessories that can be seen as 'personal splurges').

²⁵ In addition to the factors listed above, familiarity with the original brand was included as a control variable in our study, to rule out that differences in purchase intentions for lower vs. higher status brands (if any) are actually explained by the lower-status brands being more familiar, on average.



Individual-specific factors:²⁶

Personal integrity	Consumers with a higher sense of personal integrity are less likely to purchase counterfeit goods compared to those with a lower sense of personal integrity.
Value consciousness	Consumers with high levels of value consciousness are more likely to purchase counterfeit goods compared to their less value conscious peers.
Need to belong ²⁷	Consumers with higher need to belong/normative susceptibility are more likely to purchase counterfeit goods compared to their peers who have a lower need to belong/normative susceptibility.

Table 1: Selected factors and their hypothesised impact on counterfeit demand

A detailed summary of the various factors discussed in the studies is included in Appendix 2. Provided above are the factors that were selected for further exploration in the experiment, and their hypothesised impact on the consumer demand for counterfeits. The factors were selected on the basis of there being extensive support in the literature reviewed that they positively correlate and explain purchasing behaviour for counterfeit products and on the grounds of being helpful to understand drivers of counterfeit purchase. This approach resulted in a total of 11 factors that were classified into three categories according to the type of determinant and are included in the research design which is discussed in the next section.

²⁶ Additional individual-specific factors discussed with the EUIPO were age (consumers of younger age are more likely to purchase counterfeits than consumers of older age) and prior purchase of counterfeit products (consumers who have purchased counterfeit products in the past are more likely to purchase them again). Both factors were removed from later analysis to avoid correlation with other factors and difficulty in interpreting results. Need to belong variable was added as a stand-alone factor in later analysis due to its prominence in the literature reviewed.



2 Research design

As introduced earlier, a ratings based conjoint experiment was chosen in this study for examining the determinants of demand for counterfeit goods. Ratings-based conjoint experiments explain and predict preference for a specific product on the basis of its underlying features (such as price, brand name, etc.) and other relevant factors (such as the shopping context and individual purchaser characteristics): a complete list of determinants used for this study is shown in Table 1. The technique asks individuals to rate their preference for various hypothetical goods, which are described in detail by several factors. Unlike traditional consumer surveys, which ask respondents to rate products or product features in isolation, conjoint analysis presents the respondents with a series of product vignettes (see example in Figure 2) that entail different combinations of features. This enables researchers to simulate real-world purchase decisions and determine which features are most important to consumers and how they trade-off between them.

2.1 Online survey experiment

To be able to assess the individual contribution of the factors of interest on purchase intentions for counterfeit products, a set of vignettes was developed for a 15-minute online survey experiment (see section 2.2 for the online sampling design). Each vignette consisted of a counterfeit product image and a description of the purchase situation. Characteristics of the product and the situation were systematically varied. Table 2 provides an overview of all manipulated factors and their factor levels.

The vignettes were developed using specialised software. This software used an algorithm to find an efficient conjoint design, that is, a configuration of vignettes which enables estimation of the individual effects of the manipulated factors using a minimum number of vignettes. The design is balanced (i.e., each factor level appears equally often within each factor) and (near-)orthogonal (i.e., correlations between factors are zero or very close to zero; see Annex C for more detail).

The study used 96 vignettes in total. Perceived risk of punishment and perceived health/safety risk were special factors. To avoid risk-related information carry-over from one profile to the next, these factors were manipulated between-subjects rather than within-subjects, i.e., each respondent was exposed to one of the following four scenarios:



- Low risk of punishment, low health/safety risks
- Low risk of punishment, high health/safety risks
- High risk of punishment, low health/safety risks
- High risk of punishment, high health/safety risks

To avoid fatigue, each respondent evaluated only 12 vignettes (out of the 96 vignettes in total). Respondents were randomly assigned to one of eight respondent groups. Each vignette was evaluated by approximately 250 respondents (per Member State).

Factor	Factor levels	Operationalisation	Type of manipulation
Type of	1 Everyday	Bar of soap	Within-subjects:
product	2 Investment	Kettle	image, product
	3 Splurge	Sunglasses	description
Brand	1 Everyday	The brand names used in the study are not	Within-subjects:
	2 High-status	disclosed for reporting purposes to avoid	image, product
		brand-specific information disclosure. ²⁸	description
Price	1 Low	25% of the original product's price	Within-subjects:
	2 High	50% of the original product's price	product
			description
Quality of	1 Low	"You expect the product to be of somewhat	Within subjects:
product		lower quality than the original"	product
	2 High	"You expect the product to be of the same	description
		quality as the original"	
Similarity to	1 Low	"Visually, you notice some small differences	Within-subjects:
original		in the product versus the original"	image, product
	2 High	"Visually, the product looks identical to the	description
		original"	

²⁸ Real brands were selected for this study, which represented a lower priced (everyday) and higher priced (high-status) brand in each of the three product categories (soap, kettles, sunglasses).

CHOICE EXPERIMENT FOR THE DEMAND FOR COUNTERFEITS WORKSTREAM



Factor	Factor levels	Operationalisation	Type of manipulation
Perceived risk	1 No warning	-	Between-
of punishment	2 Warning	"Please note that in some EU countries it is	subjects: (no)
		illegal to buy counterfeit goods"	warning before
			the exposure to
			the counterfeit
			product
			vignettes
Perceived	1 No Warning	-	Between-
health/safety	2 Warning	"Please note that the ingredients /	subjects: (no)
risks		components present in the counterfeit	warning before
		products may not comply with the relevant	the exposure to
		industry standards and could expose users	the counterfeit
		to health and safety risks"	product
			vignettes
Purchase	1 Online	"You come across this product on a major	Within-subjects:
channel		e-commerce website in your country"	product
	2 Offline	"You come across this product in a major	description
		shopping centre in your city or city closest	
		to where you live"	

Table 2: Product-specific and situation-specific factors and their operationalisation

2.1.1 Questionnaire

The questionnaire for the survey experiment included five major parts. First, a brief introduction to the survey was provided to all respondents, explaining the study objectives²⁹ and assuring them of their confidentiality. Second, a screener section assessed respondents' eligibility. Third, qualified respondents were exposed to a series of vignettes featuring the original products (see section 2.1.1.1 for more information). Fourth, respondents were exposed to a series of vignettes featuring the asseries of vignettes featuring counterfeit versions of the same products (see section 2.1.1.2 for more information). Fifth, a final section of the

²⁹ No reference to the counterfeit products was made in the introduction section. For a full text of the introduction, please refer to Annex A, which entails the full text of the questionnaire.



survey gathered additional information relating to the personal characteristics of the respondents (see section 2.1.1.3 for more information).

2.1.1.1 Exposure to the original products

Not all products, even if original, appeal equally to everyone. Moreover, respondents may struggle to assess their purchase intent for counterfeit products if they lack information and at least some familiarity with the original product counterparts. To take this into account, after a screener section, all respondents were shown the same set of six vignettes featuring the original versions of all counterfeit products to be shown later (two brands in each of three product categories, with original prices). As part of this exposure, respondents were asked to indicate, on 9-point Likert scales, their (1) initial impression of the product (*negative-positive, unattractive-attractive*), (2) purchase intention (*definitely not-definitely so*) and (3) brand familiarity (*never heard of it-know it very well*) for every original product. Doing so established a baseline against which we could compare purchase intentions for the counterfeit products.

Figure 1 below provides a series of screenshots for the original products shopping section of the survey from the respondent's point of view. The first screenshot provided in Figure 1 displays the shopping scenario introduction which preceded a series of vignettes featuring the original products. The second screenshot in Figure 1 provides an example of a specific vignette, which featured product picture, product name (inclusive of brand name³⁰) and country-specific product price information.

³⁰ White boxes in Figure 1 were placed to withhold product brand information for reporting purposes only.

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Now, imagine that you are looking for a new <u>kettle</u> and a pair of <u>sunglasses</u>, for yourself or a friend. You also almost ran out of <u>hand soap</u>. You look online and visit stores to buy these items. On the next screens, you will see six products that you encounter while shopping. Please indicate, for each product, what you think of the product and whether you would consider buying it.





2.1.1.2 Exposure to the counterfeit products

Having assessed the original product vignettes, respondents were again asked to evaluate a series of products they may encounter while shopping (either online or offline). They were informed that all products they would see in this part were counterfeit products³¹, and that, each time, they would receive information about the product (shown in a picture), the price and where they encountered the product. Then, depending on the group of assignment, some respondents were randomly exposed to (1) a warning message stressing the potential health and/or safety risks associated with counterfeits (2) a warning message stating that counterfeit purchases are illegal in some EU Member

³¹ It was explained that "a counterfeit product is a fake version of an original product. It looks the same and is usually marked with the brand or logo of the original product, without the permission of the company that sells the original."



States, (3) both warning messages or (4) no warning message. After these messages, all respondents were shown a series of vignettes. For each purchase situation, respondents indicated, on 9-point Likert scales, their (1) initial impression of the product (*negative-positive, unattractive-attractive*) and (2) purchase intention (*definitely not-definitely so*) for the counterfeit product.

Figure 2 below provides a series of screenshots for the counterfeit goods shopping section of the survey from the survey respondent's point of view. The first screenshot provided in Figure 2 is a warning that was shown first to all respondents, alerting them to the counterfeit nature of all products (along with a definition of a counterfeit product). The second screenshot captures the subsequent shopping scenario message that was seen by all respondents. The third screenshot in Figure 2 provides an example of a further warning that was seen by a subset of respondents in a specific between-subjects treatment condition. Final screenshot displays an example of a counterfeit product vignette. As can be seen, each counterfeit product vignette featured a product picture, product name (inclusive of brand name), country-specific product price information, purchase channel, the perceived similarity of the counterfeit product to the original, and, finally, the perceived quality of the counterfeit product.

CHOICE EXPERIMENT FOR THE DEMAND FOR COUNTERFEITS WORKSTREAM



	part, you will again see a number of products that you may encounter while shopping.
12 C	that you will see in this part are counterfeit products. A counterfeit product is a fake version of an original product. It looks the same and arked with the brand or logo of the original product, without the permission of the company that sells the original.
Previous	Next
Now, imagir	ne again that you are looking for a new kettle and a pair of sunglasses, for yourself or a friend. You also plan to buy hand soap.
	screens, you will be presented with 12 situations in which you might buy these products (all counterfeit products). Each time, you will rmation about the product (shown in a picture), the price, and where you encounter it.
	cate, in each situation, what you think of the product and whether you would consider buying it. Please examine the product and situation fore providing your answers.
Previous	Next
Previous	Next
Product	sunglasses
Product Price	

Figure 2: Counterfeit shopping scenario introduction and a vignette featuring a counterfeit product



2.1.1.3 Personal characteristics of the respondents

Person-specific characteristics that may impact counterfeit purchase intent were measured in the last section of the questionnaire. This section collected information about respondents' personal integrity, value consciousness and need to belong, using adapted scales found in the existing literature.³² Finally, to collect more background information on the respondent sample, we assessed respondents' prior experience with as well as their general attitude towards counterfeit products. The complete questionnaire can be found in Annex A.

2.2 Sampling

The survey experiment was conducted online and covered the general population (15+) in 10 EU Member States, representing a balanced geographical spread. The Member States were selected to represent Western, Southern, Eastern and Northern Europe while also, due to their population size, representing a considerable portion of the total European population. Quotas were set to ensure that the sample was nationally representative on gender, age and region. The sample was recruited from Ipsos' non-probability volunteer online access panels in all ten Member States.

In each Member State, at least 2,000 respondents completed the experiment, with N = 20,389 in total (see Table 3 for the net sample size per country). As part of the experiment, all respondents were randomly assigned into eight groups which represented four between-subjects treatment conditions.

³² Value consciousness scale was adapted from Lichtenstein et al., 1990. Need to belong/normative susceptibility scale was adapted from Bearden et al., 1989. Prior purchase of counterfeits scale was adapted from EUIPO Perception study and Tom et al., 1998. Personal integrity scale was adapted from Vitell & Muncy, 2005.



Country	Sample size
Estonia (EE)	2,051
France (FR)	2,029
Germany (DE)	2,018
Greece (EL)	2,087
Italy (IT)	2,031
The Netherlands (NL)	2,022
Poland (PL)	2,025
Romania (RO)	2,049
Spain (ES)	2,015
Sweden (SE)	2,062

Table 3: Net sample size per Member State

Table 4 provides an overview of the (unweighted) sample characteristics and Table 5 of the weighted sample characteristics, which aligns the sample data with the population proportions based on the population statistics of gender, crossed with age and geographical region for each target country.

	тот	EE	FR	DE	EL	IT	NL	PL	RO	ES	SE
<u>Gender</u>											
Female	48.6%	46.5%	47.8%	49.1%	50.4%	48.1%	49.6%	48.0%	48.5%	48.7%	49.4%
Male	51.3%	53.1%	52.2%	50.9%	49.2%	51.9%	50.5%	52.1%	51.2%	51.3%	50.2%
Other	0.1%	0.3%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.2%	0.0%	0.2%
Prefer not to answer	0.1%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.3%
Age											
15-34 years	27.1%	26.7%	28.5%	25.8%	26.2%	23.4%	29.5%	27.7%	27.0%	24.8%	31.8%
35-54 years	33.1%	33.0%	30.8%	30.2%	36.5%	32.7%	30.4%	34.5%	35.8%	36.3%	30.2%
55+	39.8%	40.3%	40.7%	44.1%	37.3%	43.9%	40.2%	37.8%	37.2%	38.9%	38.0%
<u>Financial</u>											
situation											
% (very) difficult											
to make ends	31.9%	27.9%	35.0%	26.7%	47.3%	31.9%	16.5%	44.4%	31.0%	29.6%	27.8%
meet											
% (very) easy to make ends meet	28.1%	23.5%	25.9%	32.3%	8.3%	24.8%	50.4%	36.2%	17.2%	24.6%	37.9%
Table 4: Sample	descript	ion (unv	veighted)							



	тот	EE	FR	DE	EL	IT	NL	PL	RO	ES	SE
Gender											
Female	48.6%	49.1%	47.8%	49.0%	48.0%	48.3%	49.4%	47.8%	48.2%	48.6%	49.7%
Male	51.2%	50.4%	52.2%	51.0%	51.6%	51.7%	50.6%	52.2%	51.5%	51.4%	49.8%
Other	0.1%	0.4%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.2%	0.0%	0.1%
Prefer not to	0.1%	0.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.1%	0.0%	0.3%
answer	0.170	0.170	0.070	0.070	0.270	0.070	0.070	0.070	0.170	0.070	0.570
Age											
15-34 years	27.6%	32.5%	28.5%	26.4%	24.6%	23.4%	29.8%	27.9%	27.0%	24.9%	30.6%
35-54 years	33.0%	33.3%	31.0%	30.5%	33.8%	33.0%	30.5%	34.5%	36.2%	36.2%	30.8%
55+	39.5%	34.3%	40.5%	43.1%	41.6%	43.6%	39.7%	37.6%	36.8%	38.9%	38.6%
Financial											
situation											
% (very) difficult											
to make ends	31.8%	27.7%	35.1%	26.6%	47.7%	31.8%	16.4%	44.3%	30.9%	29.5%	27.7%
meet											
% (very) easy to	28.1%	23.3%	25.9%	32.3%	8.6%	25.0%	50.5%	36.3%	17.2%	24.6%	37.9%
make ends meet	20.170		20.070	02.070	0.070	20.070	00.070			2	07.070

Table 5: Sample description (weighted)

2.3 Fieldwork

The online experiment was conducted in the 10 EU Member States, between 21 April and 5 May 2023. A total of 20,389 interviews were completed across all countries (please see Table 3 or a full country list and survey completion totals per country). The experiment was executed using Computer- Assisted Web Interviewing (CAWI) in all countries.

2.4 Weighting and data analysis approach

To ensure representativeness of the country samples, the descriptive results presented in the tables and figures in the results section were weighted to the population proportions based on the population statistics of gender, crossed with age and geographical region for each target country



(see Table 5). Given that quotas were set on these indicators, the deviations observed were limited (min. weight = 0.62, max. weight = 1.72).

In order to examine which of the included factors are most important in explaining respondents' intent to buy counterfeit products, multilevel regression analyses were performed. The models estimate the individual contribution of each factor to respondents' intention to buy a counterfeit product ("Would you consider buying this product if you were looking for [hand soap, a kettle, sunglasses]?", assessed on a scale from (1) *definitely not* to (9) *definitely so*), while controlling for country differences. In addition, multilevel latent class regression analyses were performed to identify consumer segments based on their purchase intentions for counterfeit products and the role of the factors of interest therein. Annex C provides a more detailed description of the statistical models.

Additional sociodemographic analysis (by country, gender and age) is performed on the general attitudes towards counterfeit products (Section 3.1) and on the consumer segments (Section 3.3.4). Prior purchase of counterfeit goods (Section 3.2) is analysed by country. The remainder of results is presented on a total survey level.



3 Results

This chapter presents the results of the conjoint experiment. We first provide insight into consumers' general attitudes towards counterfeit products (Section 3.1) as well as their prior purchase behaviour (Section 3.2). Section 3.3 presents the results of the conjoint experiment to analyse the determinants of consumers' intention to purchase counterfeit products, overall (Section 3.3.2), per product (Section 3.3.3) and per consumer segment (Section 3.3.4). All differences described in the text in this chapter are statistically significant, unless otherwise noted.

As mentioned earlier, the total survey results are supplemented by the additional sociodemographic analysis where appropriate. Specifically, general attitudes towards counterfeit products (Section 3.1) and consumer segments (Section 3.3.4) are reviewed by country, gender and age. Prior purchase of counterfeit goods (Section 3.2) is analysed by country.

3.1 General attitudes towards counterfeit products

The study reveals a variety of consumer attitudes towards the counterfeit products. Most importantly, consumers were found to be most divided on whether purchasing counterfeit products is acceptable when they feel the original product is overpriced and/or when they cannot afford to purchase the original brand: in such cases, about a third (32%) find it acceptable to buy a counterfeit product, about a third (36%) find it unacceptable and about a third (32%) have no strong opinion. In contrast, consumers are most unified in agreeing that buying counterfeit products harms the companies that manufacture and sell the original product (67% agree with this).

Overall, consumers were found to be generally negative towards counterfeits, with some notable differences between countries and socio-demographic groups. The attitude towards counterfeit products is least negative among consumers in the Netherlands and Poland, and most negative in France and Italy. Further, consumers in the youngest age group (18-34) have a less negative attitude compared to consumers in the 35-55 age group, who in turn have a less negative attitude towards counterfeit products compared to the eldest 55+ age group. Furthermore, males have a



slightly more negative attitude towards counterfeits than females, as do consumers who report being in a better financial situation compared to consumers in a worse financial situation.

Consumers' general attitude towards counterfeit products was assessed using an 8-item scale, including positive (e.g., "It is acceptable to purchase a counterfeit product when you cannot afford to purchase the original brand") as well as negative (e.g., "Buying counterfeit products poses a threat to health and safety") statements about counterfeit products. Figure 3 shows the results across all Member States.

The results show that consumers differ on whether purchasing counterfeit products is acceptable when they feel the original product is "overpriced" and/or cannot afford to purchase the original brand: In such cases, about a third (32%) find it acceptable to buy a counterfeit product, about a third (36%) find it unacceptable and about a third (32%) have no strong opinion. About 1 in 8 respondents (16%) think that counterfeit products are just as good as the original products, and about a quarter of the respondents (26%) view the purchase of counterfeit products as an act of protest against major brands. The vast majority of respondents (67%) agree that buying counterfeits harms the companies that manufacture and sell the original products (12% disagree). Half of the respondents (49%) believe that buying counterfeit products poses a threat to health and safety (17% do not believe this) and more than half (57%) believe that buying counterfeit products supports illegal child labour (14% do not).

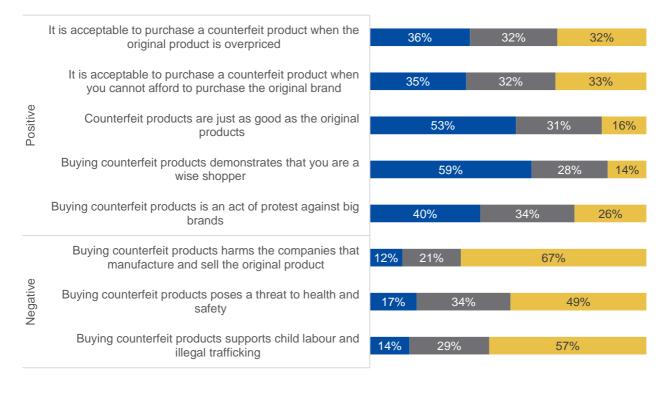
Respondents' responses to the eight statements were combined into a single score³³, reflecting their general attitude towards counterfeit products on a scale from (1) *negative* to (5) *positive*. On average, consumers' attitude towards counterfeit products tends to be negative (scores below the mid-point of the scale; see Figure 3). There are significant differences across Members States in consumers' attitude towards counterfeit products. The attitude towards counterfeit products is least negative among consumers in Greece, the Netherlands and Poland, and most negative in France and Italy (see Figure 4).

An additional socio-demographic analysis reveals that attitudes towards counterfeit products are also significantly related to age, gender and financial situation (see Figure 5). More specifically,

³³ Responses to the negative statements were reverse-coded, such that higher levels reflect more positive attitudes towards counterfeit products.



consumers in the youngest age group (18-34) have a less negative attitude (M = 2.80 on a 5-point scale) compared to consumers in the 35-55 age group (M = 2.54), who in turn have a less negative attitude towards counterfeit products compared to the eldest age group (55+, M = 2.40). Furthermore, males have a slightly (but statistically significantly) more negative attitude (M = 2.58) towards counterfeits than females (M = 2.53), and consumers who report being in a better financial situation (who find it easy or very easy to make ends meet; M = 2.48) have a slightly more negative attitude attitude compared to consumers in a worse financial situation (M = 2.58).

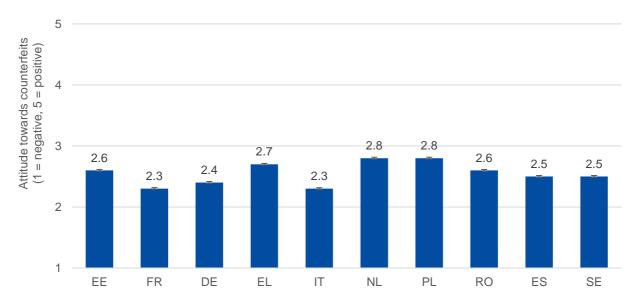


■ (strongly) disagree ■ neutral ■ (strongly) agree

Question: To what extent do you agree or disagree with the following statements? Base = all respondents, N = 20,389

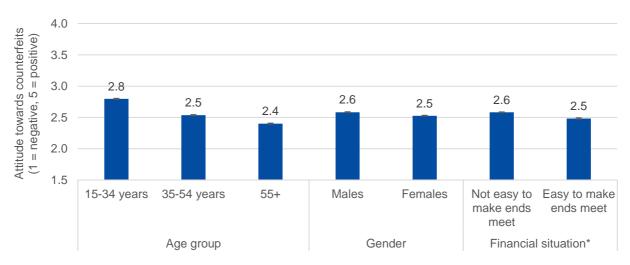
Figure 3: General attitudes towards counterfeit products.





Respondents' responses to eight statements (see Figure 3) were combined into a single score, reflecting their general attitude towards counterfeit products on a scale from (1) *negative* to (5) *positive*. Base = all respondents, n = 2,051 (EE), n = 2,029 (FR), n = 2,018 (DE), n = 2,031 (IT), n = 2,022 (NL), n = 2,025 (PL), n = 2,049 (RO), n = 2,015 (ES), n = 2,062 (SE).





Respondents' responses to eight statements (see Figure 3) were combined into a single score, reflecting their general attitude towards counterfeit products on a scale from (1) *negative* to (5) *positive*.

*Financial situation was measured on a 5-point scale from (1) *very difficult* to (5) *very easy* to make ends meet. In the figure, "easy to make ends meet" reflects responses (4) *easy* and (5) *very easy*; "not easy to make ends meet" reflects responses (1) *very difficult*, (2) *difficult* and (3) *neither easy nor difficult*.

Base = all respondents, N = 20,389 (15-34 years: n = 5,532, 35-54 years: n = 6,738, 55+: n = 8,119; males: n = 9,905, females: n = 10,451; not easy to make ends meet: n = 14,669, easy to make ends meet: n = 5,720).

Figure 5: Individual differences in general attitudes towards counterfeit products

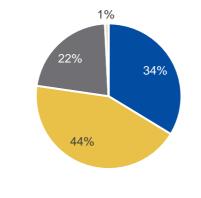


3.2 Prior purchase of counterfeit goods

About a third of all respondents (34%) report to have knowingly purchased a counterfeit product at least once in the past. In this group, 5% say that they have often done this, and 24% indicate that they did this less than a year ago. Incidence of intentional counterfeit purchase behaviour is highest in Greece, where 55% admit having knowingly purchased a counterfeit product at least once. The corresponding rate is lowest in France and Italy (19%).

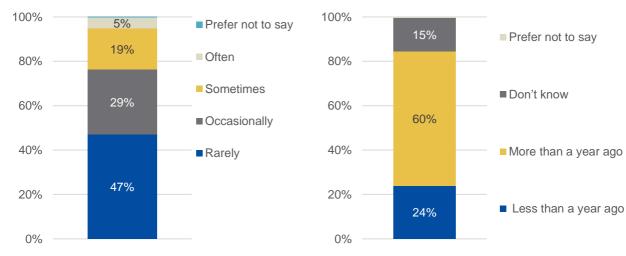
In the survey, it was explained to respondents that counterfeit products are fake versions of original products ("[A counterfeit product] looks the same and is usually marked with the brand or logo of the original product, without the permission of the company that sells the original."). After this, about a third of all respondents (34%) reported to have knowingly purchased a counterfeit product at least once (see Figure 6, top part). Among this group, 5% say that they have often done this (Figure 6, bottom left), and 24% indicate that they did it less than a year ago (Figure 6, bottom right). Most respondents who indicate that they have purchased a counterfeit product at least once report to have done this rarely (47%), and more than a year ago (60%).





Yes No Don't know Prefer not to say

Question: Have you ever knowingly purchased a counterfeit product (meaning you knew the product you bought was fake)? Base = all respondents, N = 20389



Question: How often have you knowingly purchased a counterfeit product? Base = respondents who (report to) have knowingly purchased a counterfeit product at least once, n = 6.838

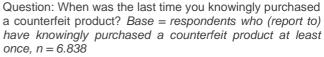


Figure 6: Prior purchase of counterfeit products

Table 6 shows the findings per Member State. Most notably, in Greece, more than half of the respondents (55%) report to having knowingly purchased a counterfeit product in the past. Moreover, compared to most other Member States, a relatively high proportion of the Greek respondents who say they have purchased a counterfeit product at least once, report to have done this more often than "rarely" or "occasionally". In France and Italy, the fewest respondents report to have knowingly purchased a counterfeit product in the past (19% in both France and Italy), and most of those who report to have done so indicate that they have done it rarely (57% and 54%) and more than a year ago (68% and 70%). Finally, in the Netherlands and Poland, while the percentage of respondents who report to have knowingly purchased a counterfeit product at least once is around the sample



average, within that group relatively many (compared to most other Member States) did this more often than "rarely" or "occasionally".

	тот	EE	FR	DE	EL	IT	NL	PL	RO	ES	SE
Knowingly purchased counterfeit											
Yes	33.7%	39.3%	19.0%	24.3%	54.9%	19.3%	34.3%	37.0%	38.5%	38.1%	32.2%
No	43.6%	28.5%	59.4%	59.9%	30.0%	58.3%	46.6%	31.5%	31.7%	44.4%	46.3%
Don't know	21.9%	31.6%	20.9%	14.9%	14.0%	21.1%	18.5%	30.8%	29.3%	17.2%	20.6%
Prefer not to say	0.8%	0.6%	0.7%	1.0%	1.0%	1.3%	0.6%	0.8%	0.5%	0.4%	1.0%
Frequency of pu	rchase*	1	1	1	1	1	1		1		
Rarely	47.0%	58.4%	42.9%	57.3%	36.8%	53.9%	40.7%	37.9%	45.6%	44.7%	62.5%
Occasionally	29.2%	18.9%	39.5%	26.3%	33.1%	29.0%	31.0%	31.4%	31.7%	31.8%	21.1%
Sometimes	18.7%	16.8%	12.0%	12.4%	24.2%	10.7%	22.6%	25.5%	17.8%	19.8%	12.5%
Often	4.8%	5.3%	4.6%	3.5%	5.9%	5.9%	5.4%	5.1%	4.3%	3.3%	3.6%
Prefer not to say	0.4%	0.5%	1.0%	0.4%	0.1%	0.6%	0.3%	0.1%	0.6%	0.4%	0.3%
Time of last purc	hase*	1	1	1	1	1	1	1	1	1	1
Less than a year ago	24.0%	22.0%	27.9%	18.4%	26.7%	17.2%	28.4%	26.1%	30.6%	23.2%	13.6%
More than a year ago	60.4%	59.3%	61.6%	68.4%	58.6%	69.8%	58.3%	49.2%	48.6%	65.1%	75.9%
Don't know	15.2%	18.3%	9.9%	13.0%	14.5%	11.9%	13.0%	24.1%	20.6%	11.1%	10.1%
Prefer not to say	0.4%	0.4%	0.6%	0.2%	0.2%	1.0%	0.3%	0.7%	0.3%	0.7%	0.5%

* Assessed only in respondents who indicated they have knowingly purchased a counterfeit in the past.

Table 6: Country differences in prior purchase of counterfeit products

3.3 Determinants of intention to purchase counterfeit products

This section presents the results of the conjoint experiment. In Section 3.3.1, we first examine respondents' evaluation of the original products to understand their base level of interest in the original versions of counterfeit products to be seen later. Next, in Section 3.3.2, we analyse the overall determinants of consumers' intention to purchase counterfeit products. In section 3.3.3, we present the analysis of these determinants by product type. Finally, in Section 3.3.4, we analyse the determinants of consumers' intention to purchase counterfeit products per consumer segment. All differences described in the text in this chapter are statistically significant, unless otherwise noted.



3.3.1 Evaluation of the original products

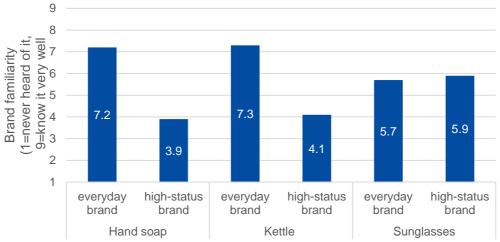
On average, consumers are most likely to consider purchasing hand soap bars, followed by, respectively, kettles and sunglasses. In case of hand soap bars and kettles, everyday brands generate higher purchase consideration than high-status brands, whereas purchase consideration for sunglasses is about the same for both brands. These differences may partly be explained by product price, with less expensive items generating higher purchase consideration than more expensive items. Additionally, as expected, consumers are more likely to show higher purchase consideration for products that they are more familiar with and of which they have a better impression. Indeed, in case of hand soap and kettles, consumers are significantly more familiar with the everyday brand than with the higher-status brand, which could partially explain the more positive attitudes towards and purchase intentions for everyday brands within these categories.

On average, attitudes and purchase intentions are highest for the hand soap bars (5.88 and 5.27 on a scale³⁴ from 1 to 9, respectively), slightly lower for the kettles (5.61 and 4.71, respectively) and again slightly lower for the sunglasses (5.42 and 4.29, respectively). These differences might be partially explained by the differences in the purchase prices of the product types. These findings also show that there is (at least some) interest among consumers in the original products.

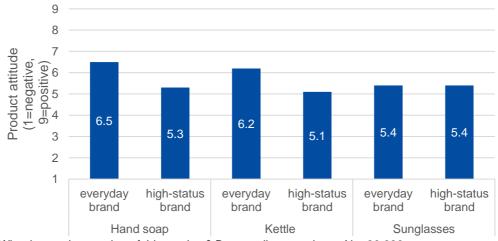
As expected, brand familiarity and product attitudes predict purchase intentions: consumers are more likely to show purchase interest in branded products that they know and have positive attitudes towards. Interestingly, in the case of hand soap and kettles, consumers are significantly more familiar with the everyday brand than with the higher-status brand (see Figure 7), which could (partially) explain the more positive attitudes towards and purchase intentions for everyday brands within these categories (we will return to this issue in the next section).

³⁴ For each purchase situation, respondents indicated, on 9-point Likert scales, their (1) initial impression of the product (*negative-positive, unattractive-attractive*) and (2) purchase intention (*definitely not-definitely so*) for the counterfeit product.

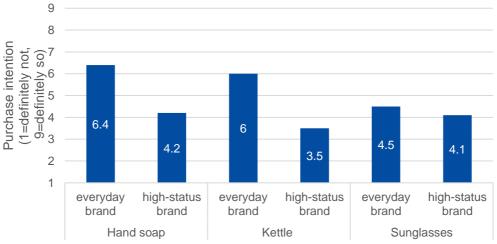




Question: How familiar are you with the brand ["brandname"]? Base = all respondents, N = 20,389



Question: What is your impression of this product? Base = all respondents, N = 20,389



Question: Would you consider buying this product if you were looking for [hand soap/a kettle/sunglasses]? Base = all respondents, N = 20,389

Figure 7: Brand familiarity and evaluation of the original products



3.3.2 Intention to purchase counterfeit products

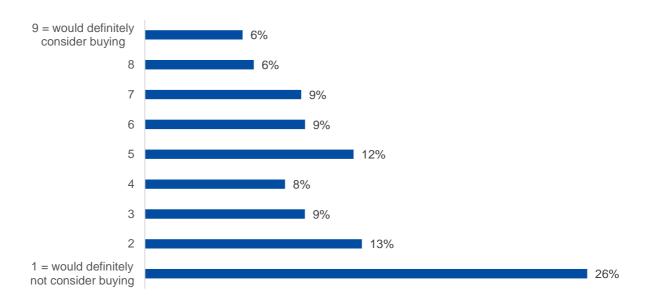
We found that all factors studied have a statistically significant influence on consumers' purchase intentions although their relative impact varies significantly. More specifically, purchase intentions for counterfeit products most strongly depend on consumers' need to belong and their personal integrity (where higher need to belong increases purchase intent for counterfeits and higher personal integrity decreases purchase intent for counterfeits). Next, consumers' intention to buy a counterfeit product also varies according to the type of product: people are most likely to consider purchasing counterfeit hand soap bar, followed by the counterfeit kettle and sunglasses, respectively. Finally, value consciousness and brand type also play a role in purchase intent for counterfeit products, with more value conscious consumers being less likely to show purchase intent for counterfeit products and everyday brands generating higher purchase intent than high-status brands.

The findings suggest that consumers are more interested in lower priced vs. higher priced counterfeit product types, and in everyday brands vs. high-status brands of counterfeit products. While we see a largely similar pattern with the original products, the difference in the degree of interest is smaller for the counterfeit versions than for the original versions of the products. Therefore, relatively speaking, the counterfeit versions of high-status (vs. everyday) brands attract more consumer interest than the original versions of high-status (vs. everyday) brands. Likewise, relatively speaking, the counterfeit versions of high-status (vs. everyday) brands. Likewise, relatively speaking, the counterfeit versions of higher priced (vs. lower priced) product types attract more interest than the original versions of higher priced (vs. lower priced) product types.

In the experiment, respondents were exposed to a set of vignettes, each consisting of counterfeit product image and a description of the purchase situation. For each vignette, respondents indicated their purchase intention ("Would you consider buying this product if you were looking for [hand soap, a kettle, sunglasses]?") on a scale from (1) *definitely not* to (9) *definitely so*. Figure 8 shows that respondents reported that they would *definitely not* consider buying the counterfeit product in 26% of the cases (respondents x vignettes). The majority of responses (56%) are on the negative side of the scale, indicating low interest in the counterfeit products in general. About a quarter of the responses (26%) of the responses are on the positive side of the scale, with respondents reporting that they would definitely consider buying the counterfeit product in 6% of the cases.

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Question: Would you consider buying this product if you were looking for a [hand soap/kettle/sunglasses]? Base = all respondents and vignettes: N = 20,389 respondents x 12 vignettes = 244,668 observations Figure 8: Intention to purchase the counterfeit good

Multilevel regression analyses were performed to analyse the individual effects of product-specific, situation-specific and person-specific factors on the purchase intentions for counterfeit products. In addition to these factors, familiarity with the original brand was included as a control variable, to rule out that differences in purchase intentions for everyday vs. high-status brands (if any) are actually explained by the everyday brands being more familiar, on average. Finally, the analyses control for country differences in baseline purchase intentions (e.g., in some Member States, respondents report higher purchase intentions for counterfeit products than in other Member States).

Table 6 shows the statistical results, which are visualised in

Figure 9 to Figure 11. Figure 12 provides a visual summary of the findings. Each bar in Figure 11 reflects a comparison between two levels of a certain factor (e.g., 50% vs. 25% of the original product's price). The figure also shows the direction of the effect – positive (above zero) or negative (below zero). The effect size (bar height) can be compared across the factors: higher bars (positively or negatively) reflect a stronger influence of the particular factor on purchase intentions.



	Outcome variable: purchase intention			
	Unstandardised	Standardised	Sig.	
Factors	coefficient	Coefficient	Sig.	
Product-related factors				
Product type: Kettle and sunglasses vs.	-0.54	-0.10	***	
hand soap ³⁵	-0.0-	-0.10		
Product type: Sunglasses vs. Kettle	-0.30	-0.05	***	
Brand: high-status vs. everyday	-0.28	-0.05	***	
Price: 50% vs. 25% of original product's	-0.14	-0.03	***	
Quality: same vs. somewhat lower as	0.14	0.03	***	
Similarity: looks identical to vs. small	0.06	0.01	***	
differences with original product	0.00	0.01		
Situation-related factors			***	
Channel: online vs. physical store	-0.04	-0.01	***	
Risk of punishment: warning vs. no warning	-0.13	-0.02	***	
Health/safety risk: warning vs. no warning	-0.12	-0.02	***	
Person-related factors			***	
Value consciousness (1 = low, 5 = high)	-0.28	-0.07	***	
Need to belong $(1 = low, 5 = high)$	0.57	0.22	***	
Personal integrity (1 = low, 5 = high)	-0.61	-0.19	***	
Control variables				
Brand familiarity (1 = low, 5 = high)	0.18	0.19	***	

Table 7: Effects on purchase intention: Results of the multilevel regression analysis³⁶

³⁵ In the statistical model, the three product types were captured by two orthogonal contrasts, one comparing the two highinvolvement products (kettle and sunglasses) with the low-involvement product (hand soap) and one comparing the two high-involvement products (kettle vs. sunglasses). Based on the model parameters, we could predict counterfeit purchase intentions for each of the three product types (see Figure 8).

³⁶ Results of multilevel regression analyses with purchase intention ("Would you consider buying this product if you were looking for [hand soap, a kettle, sunglasses?]"), assessed on a scale from (1) *definitely not* to (9) *definitely so*, as outcome variable. The unstandardised coefficients are easiest to interpret, but cannot be compared across all factors. For the product and situation-related factors, unstandardised coefficients represent the change in purchase intentions (on the scale from 1 to 9) as a result of moving from one factor level to the other (e.g., from everyday to high-status brand, from somewhat lower quality to same quality, or from no warning to warning), keeping everything else constant. For person-related factors, which are measured on 5-point scales (1 = low, 5 = high), unstandardised coefficients are more difficult to interpret (e.g., a standardised coefficient of -0,10 indicates that an increase of one standard deviation in the specific factor results



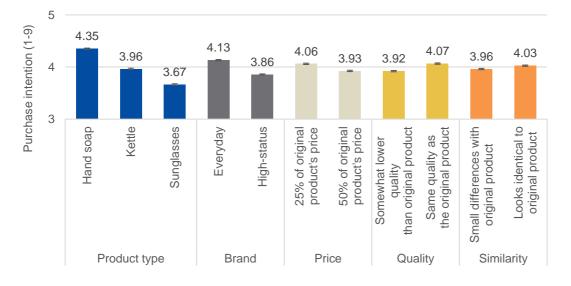
The results in Table 6 show that all factors have a statistically significant influence on respondents' purchase intentions for the counterfeit products. Purchase intentions most strongly depend on respondents' need to belong and personal integrity (see Figure 12). On average, respondents with a relatively high need to belong report a substantially higher intention to purchase the counterfeit products (M = 4.58 on a 9-point scale, see Figure 11), compared to respondents with a relatively low need to belong (M = 3.41). Conversely, respondents with a relatively low level of personal integrity (M = 4.49) express significantly more interest in the counterfeit products compared to respondents with a relatively high level of personal integrity (M = 3.49).

After the need to belong and personal integrity, purchase intentions for counterfeit products are most strongly influenced by the product type (see Figure 12). Respondents generally express higher levels of purchase interest in a counterfeit hand soap (M = 4.35 on a 9-point scale, see

Figure 9) than in a counterfeit kettle (M = 3.96), which in turn generates higher purchase intentions compared to counterfeit sunglasses (M = 3.67). Purchase intentions are also higher for everyday brands (M = 4.13) than for higher-status brands (M = 3.86), on average. Note, however, that these effects might be explained by aspects that are inherent to the different product and brand types, such as differences in price (e.g., hand soap is generally less expensive than a kettle or a pair of sunglasses, and everyday brands are less expensive than high-status brands). We will return to this issue at the end of this section.

in a 0,10 standard deviation decrease in purchase intention, on average), but can be compared across the factors, to determine the relative contribution of each factor to purchase intentions. Asterisks in column "Sig" denote statistical significance: *** p < 0.001, ** p < 0.01, * p < 0.05. Country effects are not reported in the table.







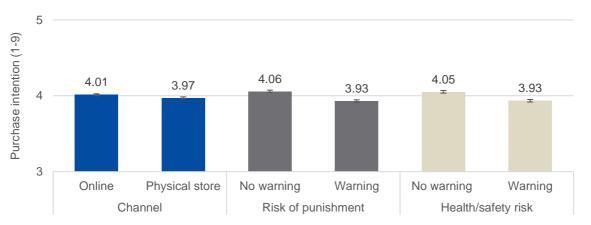


Figure 10: Model-predicted purchase intentions for counterfeit products, per situation-related factor

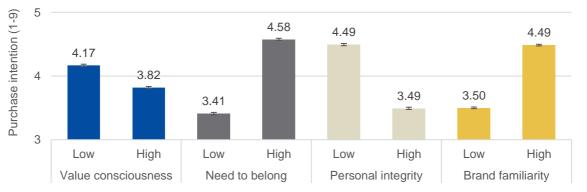


Figure 11: Model-predicted purchase intentions for counterfeit products, per person-related factor³⁷

³⁷ Predicted purchase intentions at one standard deviation below ("low") and above ("high") the mean of each personrelated factor.



After the product type, respondents' value consciousness and product brand are the next two most impactful determinants of purchase intention for counterfeit products. Specifically, value-conscious consumers – i.e., consumers who are looking for the best value for money (the best price-quality ratio) – are *less* interested in purchasing the counterfeit products (M = 3.82) compared to less value-conscious conscious consumers (M = 4.17; see Figure 11). Meanwhile, low-status brands are more likely to generate purchase intention for counterfeit products than high-status brands (M= 4.13 vs. M = 3.86).

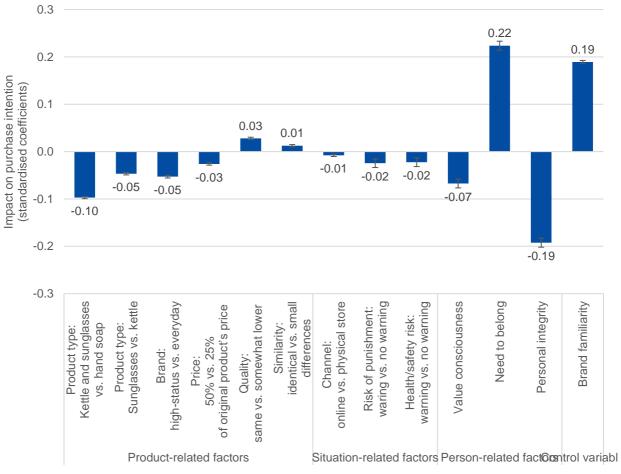


Figure 12: Relative influence of factors on purchase intentions for counterfeit products³⁸

Less impactful still are the effects of price level (25% vs. 50% of the original product price), perceived quality, perceived health/safety risks and perceived risk of punishment, that are all of similar size

³⁸ Error bars represent 95% confidence intervals.



(see Figure 12). These effects are statistically significant (i.e., unlikely to be due to chance), but smaller than the effects of the aforementioned factors. Purchase intentions are slightly lower, on average, if the counterfeit is sold at 50% (vs. 25%) of the original product's price, perceived as having somewhat lower (vs. the same) quality as the original product (Figure 9), and if respondents are warned (vs. not warned) about potential health/safety risks or informed (vs. not) that buying counterfeits is illegal in some Member States (Figure 10). The effects of perceived purchase channel and visual similarity are small. The information that respondents encountered the counterfeit product on a major e-commerce website vs. in a major shopping centre and small visual changes, such as a change in the position of the brand logo compared to

the original product, hardly impacted purchase intentions (see Figure 9 and Figure 10).

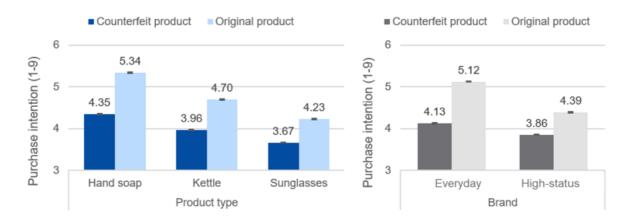


Figure 13: Model-predicted purchase intentions for counterfeit vs. original product and brand types

The findings suggest that consumers are more interested in counterfeit hand soaps than in counterfeit kettles or sunglasses, and more interested in counterfeit versions of everyday vs. high-status brands. However, these effects need not be specific to counterfeit products. Consumers may be more likely to purchase hand soaps (vs. kettles or sunglasses) and everyday (vs. high-status) brands in general, potentially because of the lower price of everyday products. Supporting this, the results in Section 3.3.1 already revealed higher purchase interest in the original versions of these products.

In a follow-up analysis, we directly compared the influence of the product and brand type on the reported purchase intentions for counterfeits vs. the original product versions. The findings, presented in Figure 13, reveal that, overall, purchase intentions were higher for the original products



than for counterfeit versions. Furthermore, and interestingly, while respondents were generally more interested in the soap bars (vs. the kettles and sunglasses) and the everyday brands (vs. the higher-status brands), the differences are smaller for the counterfeit versions than for the original versions of the products (see Figure 13). For instance, the drop in purchase interest going from higher-status to everyday brands is much larger for the original products (M = 4.39 vs. M = 5.12; a difference of 0.73) than for their counterfeit versions (M = 3.86 vs. 4.13; a difference of 0.27). In other words, *relatively speaking*, the counterfeit versions of higher-status (vs. everyday) brands attracted more interest than the original versions of higher-status (vs. everyday) brands. A similar pattern of results is observed for the different product types. That is, the drop in purchase interest going from hand soap to kettles to sunglasses is larger for the original products than for the counterfeit versions, meaning that, *relatively speaking*, the counterfeit versions of higher (vs. lower) priced product types generated more purchase interest than the original versions of higher versions of higher (vs. lower) priced product types generated more purchase interest than the original versions of higher (vs. lower) priced product types.

3.3.3 Differences across products

The impact of various factors that influence counterfeit demand varies by product type and brand. Our analysis indicates that the overall pattern of results is fairly robust across products and brands, but that there are some noteworthy interplays with product type and brand. Most notably, for the high-status brands, consumers become less interested in purchasing counterfeit product as their price increases, but for everyday brands consumers become slightly more interested in purchasing counterfeit products as their price increases. The latter could be explained by the fact that consumers may start worrying about product types. Further, the analysis also suggests that value conscious consumers, who are less interested in purchasing counterfeit products, tend to get more reluctant with more expensive product types compared to less expensive product types. Also, as one would predict, the positive effect of the need to belong on purchase intentions is considerably stronger for the sunglasses – the product that is consumed most conspicuously – compared to other product types. Furthermore, consumers with a relatively high level of personal integrity are especially reluctant to purchase counterfeit products in purchase situations including counterfeits of everyday (vs. high-status) brands.



Another follow-up analysis, which examined interplays between the factors, revealed that the effects of various factors significantly differ across the products and brands that were used in the experiment.³⁹

Table 8 therefore shows the effects of the factors for each of the product and brand types separately. Figure 14 visualises the findings.

From the product and situation-related factors, the effect of price varies most notably across the specific products used (see Figure 14). For the higher-status brands, the price effects are negative, which means that, on average, respondents' intention to purchase these counterfeit products was lower if their price was 50% rather than 25% of the original product's price. As regards the everyday brands, the results reveal a small positive price effect for the hand soaps and kettles, meaning that respondents' intention to purchase these products was slightly higher if their price was 50% (vs. 25%) of the original product's price. Note that, as in reality, (original) product prices were lower for hand soaps and kettles than for sunglasses and lower for low-status than for high-status brands. It could be that, when counterfeits of relatively inexpensive products were offered at low prices (i.e., 25% vs. 50% of the original product's price), respondents started to doubt the quality of the product, resulting in a lower purchase tendency.

The effects of the other product and situation-related factors are always in the same direction, only their strength varies across the different products (see Figure 14). The differences are small in absolute terms, however. All in all, these factors do not seem to have a considerable impact on purchase intentions for counterfeits products, neither overall nor for any of the product and/or brand types in specific.

The results further reveal that the strength of the effects of the person-related factors, which had a relatively strong impact on purchase intentions, considerably differs across products. The negative effect of value consciousness is significantly stronger for the kettle (high-status brand) and the sunglasses, which are the products with the highest prices. It thus seems that value-conscious consumers are less interested in purchasing the counterfeit products compared to less value-

³⁹ The effects of price, perceived risk of punishment, channel, value consciousness, need to belong, personal integrity and brand familiarity significantly depended on the product type (p < 0.001) and brand type (p < 0.01). The effects of perceived quality and perceived health and/or safety risks significantly differed across product types (p < 0.05), but not across brand types (p > 0.33). The effect of perceived similarity did not differ across product and brand types (p = 0.260 and p = 0.142, respectively).



conscious consumers, particularly if the counterfeit's price is relatively high (hence not seen as good value for money).

As one would predict, the positive effect of the need to belong on purchase intentions is considerably stronger for the sunglasses – the product that is consumed most conspicuously – compared to the kettle and the hand soap, and stronger for high-status compared to low-status brands. Furthermore, compared to consumers with a relatively low level of personal integrity, consumers with a relatively high level of personal integrity are much less likely to be interested in purchasing counterfeit products, and this negative effect of personal integrity seems even stronger in purchase situations including counterfeits of low-status (vs. high-status) brands.

All in all, these results show that the pattern of results is fairly robust across products and brands.

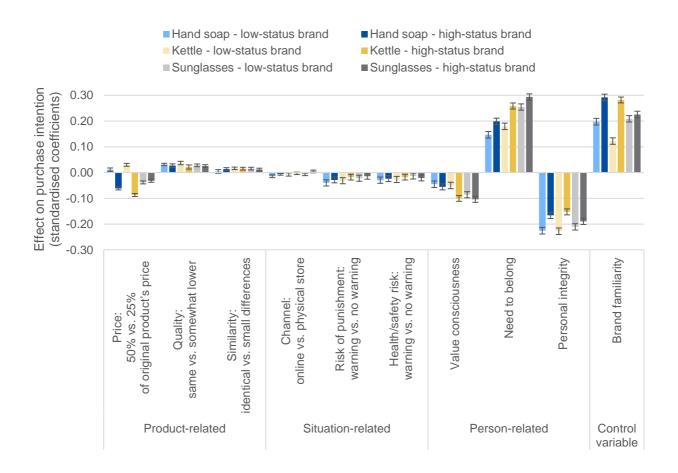




Figure 14: Relative influence of factors on purchase intentions for counterfeit products: differences across product and brand types⁴⁰

⁴⁰ This figure shows the relative contribution of each of the factors of interest on purchase intentions, for each of the products used in the experiment separately. Each bar reflects a comparison between two levels of a certain factor (e.g., 50% vs. 25% of the original product's price). The bars also show the direction of the effect – positive (above zero) or negative (below zero). The effect size (bar height) can be compared across the factors: higher bars (positively or negatively) reflect a stronger influence of the particular factor on purchase intentions. Error bars represent 95% confidence intervals.



Factors	Hand	soap	Ke	ttle	Sungl	asses
	Every-	High	Every-	High	Every-	High
	day	status	day	status	day	status
Product-related factors						
Price: 50% vs. 25% of original	0.011	-0.061	0.030	-0.087	-0.038	-0.032
product's price	0.011	0.001	0.000	0.001	0.000	0.002
Quality: same as vs. somewhat lower	0.031	0.027	0.037	0.022	0.028	0.025
than original product	0.001	0.021	0.007	0.022	0.020	0.020
Similarity: looks identical to vs. small	(0.004)	0.014	0.016	0.015	0.015	0.012
differences with original product	(0.004)	0.014	0.010	0.015	0.015	0.012
Situation-related factors						
Channel: online vs. physical store	-0.014	-0.006	-0.007	(-0.003)	-0.007	(0.004)
Risk of punishment: warning vs. no	-0.040	-0.028	-0.031	-0.018	-0.022	-0.014
warning	0.010	0.020	0.001	0.010	0.022	0.011
<i>Health/safety risk:</i> warning vs. no	-0.030	-0.023	-0.027	-0.018	-0.013	-0.021
warning						
Person-related factors						
Value consciousness	-0.045	-0.056	-0.050	-0.100	-0.086	-0.104
Need to belong	0.147	0.199	0.180	-0.258	0.254	0.294
Personal integrity	-0.226	-0.166	-0.228	-0.153	-0.211	-0.189
Control variables						
Brand familiarity	0.198	0.292	0.122	0.282	0.209	0.226

Table 8: Effects on purchase intention, per product: Results of the multilevel regression analysis (standardised coefficients)⁴¹

⁴¹ Results of multilevel regression analyses with purchase intention ("Would you consider buying this product if you were looking for [hand soap, a kettle, sunglasses?]"), assessed on a scale from (1) *definitely not* to (9) *definitely so*, as outcome variable. Standardised coefficients can be compared across the factors, to determine the relative contribution of each factor to purchase intentions. Coefficients between brackets are not statistically significant (p > 0.05). All other coefficients are significant at p < 0.001. Country effects are not reported in the table.



3.3.4 Differences across consumers

Five groups of consumers, so-called consumer segments, were identified on the basis of their responses to the product and situation-related factors as well as person-related characteristics (personal integrity, value consciousness and the need to belong). These groups range from Segment 1 (highest intention to purchase counterfeit products) to Segment 5 (zero intention to purchase counterfeit products).

Segment 1, with the highest intention to purchase counterfeit products, accounts for 18% of total consumers. It is the youngest of all segments, with 43% of all segment members under the age of 35, and the segment with the highest proportion of men (55%). This segment is characterised by a relatively strong need to belong and relatively low levels of personal integrity and value consciousness. In line with their strong need to belong, this is the only segment that is more likely to purchase counterfeit sunglasses than a counterfeit kettle. Largest of all segments, Segment 2 (37% of all consumers), shows no strong intention to buy counterfeit products, but also no clear rejection. This segment is characterised by relatively low personal integrity, but value consciousness and the need to belong are not strongly related to being a member in this segment. A bit older than Segment 1 (31% of segment members are under the age of 35), members of Segment 2 stand out for their outspoken preference for low-status vs. high-status brands and for counterfeit products sold at lower prices.

Segments 3 (27% of all consumers), 4 (11% of all consumers) and 5 (7% of all consumers), which have low to no interest in buying counterfeit products, are, on average, older than the first two segments. Compared to the latter, they have also higher levels of personal integrity and value consciousness, and a lower need to belong. More specifically, Segment 3 can be described as generally unwilling to purchase counterfeit products, although slightly more interested when it comes to an everyday product with no noticeable quality difference or visual difference from the original. Consumers within Segment 4 have a very low intention, on average, to purchase counterfeit products, which is influenced only to a very limited extent by product and situation characteristics. Finally, since Segment 5 express absolutely no interest in buying counterfeit products, characteristics of products and situations have no influence at all within this segment.



Finally, we examine differences among consumers in their tendency to purchase counterfeit goods (and the influence of the product and situation-related factors on this tendency). To this end, a latent class multilevel regression analysis was performed. The statistical model identifies a number of (unobserved) consumer segments with different responses to the product and situation-related characteristics, and simultaneously predicts segment membership based on consumer characteristics. More specifically, we examine if segments of consumers exist that react differently to information about the price, quality, risks, etc. when exposed to counterfeit products, and if and how the segments are associated with the consumer characteristics of interest (value consciousness, the need to belong, personal integrity) as well as socio-demographic characteristics (age, gender, financial situation, etc.).⁴²

Table 9 provides the statistical results, which are visualised in Figure 15 and Figure 16.

Five consumers segments are identified, which are ordered in the table and figures from the segment with the highest intention to purchase counterfeit products (Segment 1) to the segment with zero intention to purchase counterfeit products (Segment 5). The first consumer segment, consisting of 18% of the consumer sample, has a relatively high intention to purchase counterfeit products (M = 6.77, on average, on a scale from 1 to 9; see

Table 9, top). The second segment's average purchase intention is around the mid-point of the scale (M = 4.78), showing no strong intention to buy counterfeit products, but also no clear rejection. With 37% of the sample, this is the largest segment. The third (M = 2.74, 27%) of the sample) and fourth (M = 1.51, 11%) of the sample) segments are increasingly less likely to purchase counterfeit products. Finally, the fifth segment, which makes up 7% of the sample, shows absolutely no interest in purchasing counterfeit products (M = 1.00, on average, on a scale from 1 to 9).

Figure 15 shows the relationships between person-related factors (value consciousness, need to belong and personal integrity) and the likelihood of belonging to the segment, for each of the five consumer segments. The bars show the direction of the relationship – positive (above zero) or negative (below zero). The strength of the relationship (bar height) can be compared across the segments: higher bars (positively or negatively) reflect a stronger influence of the particular person-related factor on the likelihood of segment membership. Error bars represent one standard error above and below the mean.

⁴² Value consciousness, the need to belong, personal integrity are included in the model as predictors of segment membership. Sociodemographic factors are included only for segment profiling.



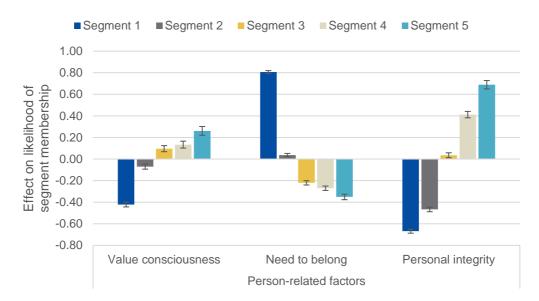


Figure 15: Effects of the person-related factors on the likelihood of segment membership

Which segment a consumer is most likely to belong to significantly depends on the consumer's level of value consciousness, need to belong and personal integrity (see Figure 15). Segment 1, with the highest intention to purchase counterfeit products, is characterised by a relatively strong need to belong (M = 3.33 on a scale from 1 to 5; see also Table 10) and relatively low levels of personal integrity (M = 3.37) and value consciousness (M = 3.93). Personal integrity is also strongly negatively associated with membership of Segment 2: Consumers with lower levels of personal integrity are more likely to belong to this segment. Value consciousness and the need to belong are not strongly related to membership of Segment 2 (scores are around the sample mean; see Table 10). Segments 3, 4 and 5, which have low to no interest, respectively, in buying counterfeit products, are characterised by increasingly higher levels of personal integrity (M = 3.98, M = 4.16, and M = 4.27) and value consciousness (M = 4.15, M = 4.18, M = 4.23), and an increasingly lower need to belong (M = 2.32, M = 2.26, M = 2.18).

The identified segments vary in their reaction to characteristics of counterfeit products and purchase situations (see Figure 16), although the differences are sometimes small in absolute terms. We discuss the most important differences.

CHOICE EXPERIMENT FOR THE DEMAND FOR COUNTERFEITS WORKSTREAM



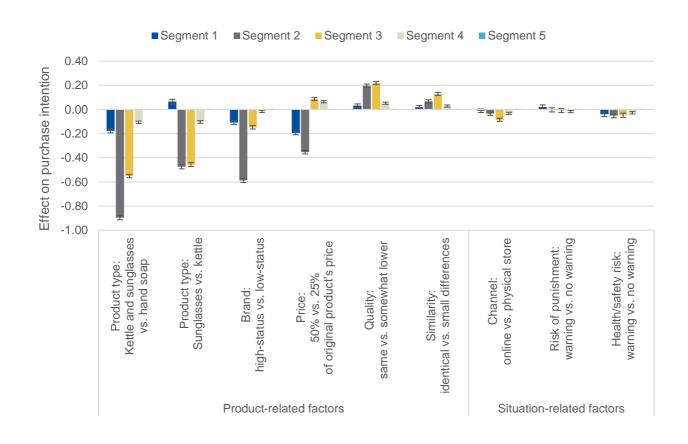


Figure 16: Differences in the influence of the product and situation-related factors across segments⁴³

⁴³ This figure shows the relative contribution of each of the factors of interest on purchase intentions, for each of identified segments. Each bar reflects a comparison between two levels of a certain factor (e.g., 50% vs. 25% of the original product's price). The bars also show the direction of the effect – positive (above zero) or negative (below zero). The effect size (bar height) can be compared across the factors: higher bars (positively or negatively) reflect a stronger influence of the particular factor on purchase intentions. Error bars represent one standard error above and below the mean.



	Segment					Diff. across
Factors	1	2	3	4	5	segments?
Segment size	18%	37%	27%	11%	7%	
Purchase intention	6.77	4.78	2.74	1.51	1.00	Y
(1 = definitely not, 9 = definitely so)	0.11	4.70	2.1 4	1.01	1.00	•
Effects per segment						
Product-related factors						
Product type: Kettle and sunglasses	-0.177 ^c	-0.897 ^a	-0.552 ^b	-0.106 ^d	0.000 ^e	Y
vs. hand soap	-0.177	-0.007	-0.002	-0.100	0.000	•
Product type: Sunglasses vs. kettle	0.065 ^d	-0.474 ^a	-0.457 ^a	-0.104 ^b	0.000 ^c	Y
<i>Brand</i> : high-status vs. everyday	-0.108 ^b	-0.589 ^a	-0.148 ^b	-0.016 ^c	0.000 ^c	Y
Price: 50% vs. 25% of original	-0.195 ^b	-0.354 ^a	0.087 ^c	0.065 ^c	0.000 ^d	Y
product's price	0.100	0.001	0.007	0.000	0.000	•
Quality: same as vs. somewhat lower	0.032 ^b	0.197 ^c	0.219 ^c	0.051 ^b	0.000 ^a	Y
than original product	0.032*	0.197	0.219	0.051	0.000	
Similarity: looks identical to vs. small	0.018 ^{ab}	0.067 ^c	0.129 ^d	0.028 ^b	0.0003	Y
differences with original product	0.016	0.067°	0.129°	0.020~	0.000 ^a	Y
Situation-related factors						
Channel: online vs. physical store	-0.011 ^{bc}	-0.035 ^b	-0.086 ^a	-0.032 ^b	0.000 ^c	Y
Risk of punishment: warning vs. no	0.020 ^a	-0.004 ^a	-0.009 ^a	-0.017 ^a	0.000 ^a	N
warning	0.020	-0.004	-0.009	-0.017	0.000	IN
Health/safety risk: warning vs. no	-0.040 ^a	-0.052 ^a	-0.048 ^a	-0.028 ^a	0.000 ^b	Y
warning	-0.040	-0.052	-0.040	-0.020	0.000	•
Control variables						
Brand familiarity	0.296 ^e	0.268 ^d	0.115 ^c	0.018 ^b	0.000 ^a	Y
Effects on likelihood to belong to se	egment					
Person-related factors						
Value consciousness	-0.421 ^a	-0.070 ^b	0.096 ^c	0.134 ^c	0.261 ^d	Y
Need to belong	0.806 ^d	0.037 ^c	-0.221 ^b	-0.271 ^b	-0.351 ^a	Y
Personal integrity	-0.669 ^a	-0.467 ^b	0.035 ^c	0.412 ^d	0.689 ^e	Y

Table 9: Results of the latent class multilevel regression analysis: Consumer segments in responses to counterfeit product and situation factors⁴⁴

⁴⁴ Results of a multilevel latent class regression analysis with purchase intention ("Would you consider buying this product if you were looking for [hand soap, a kettle, sunglasses?]"), assessed on a scale from (1) *definitely not* to (9) *definitely so*,



The tendency of Segment 1 to purchase a counterfeit product depends on the characteristics of the counterfeit product, but not as strongly as within other segments (Figure 16, dark blue bars). Segment 1 is the only segment that is more likely to purchase counterfeit sunglasses than a counterfeit kettle, consistent with the relatively high need to belong of consumers within this segment. Price matters (although not as much as for Segment 2), but a somewhat lower quality or small visual differences with the original product do not discourage this segment to purchase counterfeit products.

As regards the influence of product and situation-related factors on purchase intentions, segments 2 and 3 are fairly similar. The purchase intentions of Segment 2 are most strongly influenced by product characteristics (Figure 16, dark grey). Both segments are more likely to purchase a counterfeit hand soap than a counterfeit kettle, which they are in turn more likely to purchase than counterfeit sunglasses. The major difference between segments 2 and 3 – apart from the fact that Segment 2 has a higher intention, overall, to purchase the counterfeit products – is that Segment 2 has a much more outspoken preference for everyday (vs. high-status) brands and for counterfeit products, particularly if it concerns an inexpensive counterfeit version of an everyday product as hand soap, which they expect to serve them as well as the original product. Segment 3 is generally unwilling to purchase counterfeit products, but is slightly more interested when it comes to an everyday product with no noticeable quality difference or visual difference from the original.

Segment 4 is somewhat similar to Segment 3 in terms of the direction of the influence of product characteristics, but all effects are much less strong within Segment 4. Consumers within this segment have a very low intention, on average, to purchase counterfeit products, which is influenced only to a very limited extent by product and situation characteristics (see Figure 16, pale yellow bars). Finally, since segment 5 expresses absolutely no interest in buying counterfeit products, characteristics of products and situations have no influence at all within this segment.

as outcome variable. The product and situation-related factors are included in the model as predictors of purchase intentions for counterfeit products. The person-related factors are included as predictors of segment membership. The coefficients presented are unstandardised coefficients. The coefficients can be compared across segments: the (overall) statistical significance of the differences in the coefficients across segments is indicated in the last column (yes/no). Coefficients with different superscripts – a, b, c, etc. – (row-wise) are significantly different from each other (at p < 0.05).



	Segment	Segment	Segment	Segment	Segment	Oursell
	1	2	3	4	5	Overall
Segment size	18%	37%	27%	11%	7%	
Purchase intention						
(1 = definitely not, 9 =	6.77	4.78	2.74	1.51	1.00	3.98
definitely so)						
Value consciousness	3.93	4.05	4.15	4.18	4.23	4.08
(1 = low, 5 = high)	0.00	1.00	1.10	1.10	1.20	1.00
Need to belong	3.33	2.61	2.32	2.26	2.18	2.60
(1 = low, 5 = high)	0.00	2.01	2.02	2.20	2.10	2.00
Personal integrity	3.37	3.65	3.98	4.16	4.27	3.79
(1 = low, 5 = high)	0.01	0.00	0.00			on e
Age category						
15 – 24 years	20%	15%	8%	5%	3%	12%
25 – 34 years	23%	16%	12%	9%	7%	15%
35 – 44 years	22%	16%	14%	13%	12%	16%
45 – 54 years	15%	17%	18%	18%	17%	17%
55 – 65 years	10%	18%	21%	25%	25%	18%
66 years and older	10%	18%	27%	31%	36%	21%
<u>Gender</u>						
Male	55%	49%	46%	45%	46%	49%
Female	45%	51%	54%	55%	54%	51%
Other	0%	0%	0%	0%	0%	0%
Financial situation						
(1 = very difficult, 5 =	2.93	2.91	3.01	3.04	3.07	2.97
very easy [to make ends	2.00	2.01	0.01	0.04	0.07	2.01
meet])						
Member State						
Estonia	6%	11%	12%	12%	9%	10%
France	9%	10%	10%	10%	10%	10%
Germany	10%	9%	10%	10%	14%	10%
Greece	12%	12%	9%	8%	5%	10%



Italy	10%	8%	10%	13%	14%	10%
The Netherlands	10%	12%	10%	6%	8%	10%
Poland	11%	11%	10%	8%	9%	10%
Romania	11%	9%	10%	12%	11%	10%
Spain	12%	9%	9%	10%	10%	10%
Sweden	8%	10%	11%	10%	9%	10%

Table 10: Segment profiles

Finally, Table 10 reveals the socio-demographic profiles of each of the segments, Most notably, age steadily increases from Segment 1 to segment 5. Segment 1 is the youngest consumer segment, with 43% under the age of 35 (compared to 10% in segment 5). Segment 5 is the oldest segment, with more than 6 in 10 members aged 55 or older (compared to 20% in Segment 1). Furthermore, segment 1 consists of slightly more men (55%) than women (45%), while segments 3, 4 and 5 contain slightly more women than men. Finally, there are no strong differences in the financial situation (here, measured as the ease or difficulty to make ends meet) across the segments.



4 Conclusion

This study investigated the relative importance of determinants of intentional demand for counterfeit goods using a ratings-based conjoint survey experiment. The specific objectives of the study were (i) to investigate to what extent various product-level, individual-level and purchase-situation factors determine counterfeit demand, and (ii) how these different factors relate to one another (i.e. what is their relative influence). The study was conducted online among the general population of 15 years and older in 10 European Union (EU) Member States: Estonia, France, Germany, Greece, Italy, the Netherlands, Poland, Romania, Spain and Sweden. A total of 20,389 interviews were completed.

The research conducted for this study shows that intentional demand for counterfeit products continues to be a relatively widespread phenomenon among EU consumers, even if, on average, EU consumers also hold a relatively negative opinion of these products. According to the self-reported behaviour in 10 EU Member States, about a third of EU respondents (34%) indicate to have knowingly purchased a counterfeit product at least once in the past. In this group, 5% say that they have often done this, and 24% indicate that they did this less than a year ago. Incidence of intentional counterfeit purchase behaviour is highest in Greece, where 55% admit to having knowingly purchased a counterfeit product at least once. The corresponding rate is lowest in France and Italy (both 19%). On a scale from (1) *negative* to (5) *positive*, general attitude towards counterfeits ranges from 2.3 in Italy and France to 2.8 the Netherlands and Poland.

The study results indicate that all individual-level, purchase situation and product-specific factors that were included in the study explain customers' purchase intentions, although their relative impact varies significantly. Purchase intentions for counterfeit products most strongly depend on consumers' personal characteristics: their need to belong⁴⁵, and their personal integrity⁴⁶ (where higher need to belong increases purchase intent for counterfeits and higher personal integrity decreases purchase intent for counterfeits). In addition, consumers' intention to buy a counterfeit

⁴⁵ This characteristic was measured by means of a question asking respondents to indicate their agreement with a series of statements, e.g., "it is important that others like the products and brands I buy". For a full list of statements evaluated, refer to Q12 in Appendix A.

⁴⁶ This characteristic was measured by means of a question asking respondents to evaluate a series of behaviours, e.g., "getting too much change and not saying anything", as wrong or not wrong. For a full list of behaviours evaluated, refer to Q16 in Appendix A.



product also varies according to the type of product: people are most likely to consider purchasing low engagement everyday item represented by a bar of hand soap, followed by high engagement items (investment item represented by a kettle and a splurge represented by a pair of sunglasses, respectively)⁴⁷. Finally, value consciousness⁴⁸ and brand type (everyday vs. high status brand) also play a role in purchase intent for counterfeit products, with more value conscious consumers being less likely to show purchase intent for counterfeit products and everyday brands generating higher purchase intent than high-status brands. Other factors studied, while all statistically significant, were of relatively lower impact in terms of driving intentional consumer demand for counterfeit products. These less impactful factors included counterfeit product price level (25% vs. 50% of the original product price), perceived quality, perceived health/safety risks, perceived risk of punishment, and the purchase channel (online vs. offline).

The findings suggest that consumers are more interested in lower priced vs. higher priced counterfeit product types, and in everyday brands vs. high-status brands of counterfeit products. While we see a largely similar pattern with the original products, the difference in the degree of interest is smaller for the counterfeit versions than for the original versions of the products. Therefore, relatively speaking (if one accounts for this generally higher interest in cheaper vs. more expensive product types in the analysis), the counterfeit versions of high-status (vs. everyday) brands attract more consumer interest than the original versions of high-status (vs. everyday) brands. Likewise, relatively speaking, the counterfeit versions of higher priced (vs. lower priced) product types attract more interest than the original versions of higher priced (vs. lower priced) product types.

Furthermore, although our analysis indicates that the overall pattern of results is fairly robust across products and brands, findings do differ depending on the type of counterfeit product and brand. Most

Α.

⁴⁷Dual Process Theory, as introduced by Daniel Kahneman (2011), suggests that much of humans' behaviour is based on the automatic processing of information (often referred to as System 1 processing), and that humans only rarely engage in more deliberative processing (often referred to as System 2 processing). The study supposes that the majority of everyday purchases are done in System 1 decision-making mode. That said, System 2 decision-making mode may also be at play in certain situations, such as when consumers are faced with higher value or higher personal involvement items (e.g. with goods that can be seen as, so-called, 'investment pieces', or personal accessories that can be seen as 'personal splurges'). Low engagement item in the study was exemplified by a bar of hand soap, while the so-called 'investment piece' was exemplified by a kettle and a 'personal splurge' by a pair of sunglasses.

⁴⁸ This characteristic was measured on the extent of respondents' agreement with a series of statements (e.g., "I always check prices to be sure I get the best value for the money I spend"). For a full list of statements, refer to Q11 in Appendix



notably, for the high-status brands, consumers become less interested in purchasing counterfeit product as their price increases, but for everyday brands consumers become slightly more interested in purchasing counterfeit products as their price increases. The latter could be explained by the fact that consumers may start worrying about product quality when they see steeper price discounts on the relatively inexpensive counterfeit product types. Further, the analysis also suggests that value conscious consumers, who are less interested in purchasing counterfeit products, tend to get more reluctant with more expensive product types compared to less expensive product types. Also, as one would predict, the positive effect of the need to belong on purchase intentions is considerably stronger for the sunglasses – the product that is consumed most conspicuously – compared to other product types. Furthermore, consumers with a relatively high level of personal integrity are especially reluctant to purchase counterfeit products in purchase situations including counterfeits of everyday (vs. high-status) brands.

The study also identified five unique consumer segments on the basis of their responses to the product and situation-related factors as well as their person-related characteristics (personal integrity, value consciousness and the need to belong). These groups primarily differ from one another in their intention to purchase counterfeit products, ranging from Segment 1 and Segment 2 with, relatively speaking, the highest intentions to purchase counterfeit products, to Segment 3, Segment 4, and Segment 5 which show low to zero intentions for purchasing counterfeit products.

Segment 1, with the highest intention to purchase counterfeit products, accounts for 18% of total consumers. It is the youngest of all segments, with 43% of all segment members under the age of 35, and the segment with the highest proportion of men (55%). This segment is characterised by a relatively strong need to belong and relatively low levels of personal integrity and value consciousness. The tendency of Segment 1 to purchase a counterfeit product depends on the characteristics of the counterfeit product, but not as strongly as with other segments. Notably, Segment 1 is the only segment that is more likely to purchase counterfeit sunglasses (splurge item) than a counterfeit kettle (investment item), which may be related to this segment's higher need to belong, expressed through a preference for product types that can offer easy visibility and personal identification.

Largest of all segments, Segment 2 (37% of all consumers), shows no strong intention to buy counterfeit products, but also no clear rejection. This segment is characterised by relatively low personal integrity, but value consciousness and the need to belong are not strongly related to being



a member of this segment. A bit older than Segment 1 (31% of segment members are under the age of 35), members of Segment 2 are influenced more by product characteristics than the other segments. More specifically, they stand out from the other segments for an outspoken preference for everyday (vs. high engagement) product types, everyday (vs. high-status) brands and for counterfeit products sold at lower prices (25% vs 50% of the original product's price).

Segments 3 (27% of all consumers), 4 (11% of all consumers) and 5 (7% of all consumers), which have low to no interest in buying counterfeit products, are, on average, older than the first two segments. Compared to the latter, they also have higher levels of personal integrity and value consciousness, and a lower need to belong. More specifically, Segment 3 can be described as generally unwilling to purchase counterfeit products, although slightly more interested when it comes to an everyday product with no noticeable quality difference or visual difference from the original. Consumers within Segment 4 have a very low intention, on average, to purchase counterfeit products, which is influenced only to a very limited extent by product-specific and situation-specific factors. Finally, since Segment 5 expresses absolutely no interest in buying counterfeit products, characteristics of products and situations have no influence at all within this segment.

From a targeted communications perspective, Segments 1 and 2 represent a group of consumers that is most likely to purchase a counterfeit product and is therefore a primary target audience for any campaigns aimed at reducing the intentional demand for counterfeit products. As stated earlier, Segment 1 is described by a relatively high need to belong. Influencers may be able to tap into this need, due to their social status and position, and based on how consumers relate to influencers. Therefore, anti-counterfeiting messages delivered by influencers may have the power to shape purchasing decisions for this Segment. Another consideration to bear in mind is that Segment 1 is characterised by a relatively low level of personal integrity, which suggests that, compared to the other segments, consumers in Segment 1 may be more accepting of behaviours that others would describe as "wrong" or ethically inappropriate. This may therefore mean that Segment 1 may be less influenceable on the grounds of ethics compared to the other segments. Additionally, as the only segment that is more likely to purchase sunglasses (a "splurge" item) over a kettle (an "investment" item), this segment may also benefit from messaging that focuses on product types that can offer easy visibility and personal identification.

Segment 2, being the largest of all segments and the second most likely to consider purchasing counterfeit products, also presents a communications opportunity. Within this segment, high



preference of everyday (vs. high-status) brands and everyday product types may indicate an opportunity for an awareness raising campaign focused on these types of products.

Given the low intentional demand for counterfeit products shown by Segments 3, 4, and 5, communication to these segments should focus on reinforcing their existing purchasing decisions and behaviours and/or educating them about how to recognise counterfeit products, so as to reduce any unintentional purchasing of counterfeit goods.

In conclusion, the results of this study indicate that understanding counterfeit purchasing drivers means, in the first place, understanding specific person-level values and psychological needs that drive these behaviours. That said, our findings show that intentions vary according to product, and that consumers also vary from one another. Therefore, a contextualised understanding of counterfeit behaviours is needed, taking into account values and needs of people and understanding how behaviours shift according to product type.



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Glossary

DE	Germany
EE	Estonia
EL	Greece
ES	Spain
EU	European Union
EUIPO	European Union Intellectual Property Office
FR	France
IPR	Intellectual Property Rights
IT	Italy
NL	Netherlands
OECD	Organization for Economic Co-operation and Development
PL	Poland
RO	Romania
SE	Sweden
ТОТ	Total



Annexes

Annex A Questionnaire

22-082948-01 EUIPO Counterfeits

Empirical experiment to determine the relative importance of various counterfeit product attributes with consumers

DCE online questionnaire

Text in blue provides scripting instructions

Text in black is shown to respondents

Text in green refers to other documents

Text in purple refers to timers

SURVEY OVERVIEW

Topic	 Description
 Data Collection Method 	 Online data collection (CAWI) via the panels , Gen pop 15+
 Data Collection device 	 Device agnostic
 Multi country 	 10 countries
 Languages for fieldwork 	 National language(s) of the countries covered by the survey
 Interview duration 	 15 minutes



QUOTA / KEY VARIABLES AND RANDOMISATION

Country of residence

PROG: create hidden variable **COUNTRY.** Allocate respondents based on country of residence.

Nbr	Country	Languages	Sample size
			MAIN
1	Estonia	Estonian	2000
2	France	French	2000
3	Germany	German	2000
4	Greece	Greek	2000
5	Italy	Italian	2000
6	The Netherlands	Dutch	2000
7	Poland	Polish	2000
8	Romania	Romanian	2000
9	Spain	Spanish	2000
10	Sweden	Swedish	2000



Group (each group will see a different set of vignettes) PROG: WITHIN EACH COUNTRY, RANDOMLY ASSIGN ALL RESPONDENTS INTO EIGHT EQUAL GROUPS BASED ON LEAST FILLED METHOD

Group	Vignettes (each group will evaluate 12 vignettes)	Perceived risk of punishment (x6)	Perceived health/safety risk (x7)	Sample size (per country) MAIN
1	1-12	1 (low)	1 (low)	250
2	13-24	1 (low)	1 (low)	250
3	25-36	1 (low)	2 (high)	250
4	37-48	1 (low)	2 (high)	250
5	49-60	2 (high)	1 (low)	250
6	61-72	2 (high)	1 (low)	250
7	73-84	2 (high)	2 (high)	250
8	85-96	2 (high)	2 (high)	250

Part 0: General introduction

Base: All respondents [Start: timer_intro]

Thank you for your interest in this study. We are inviting you to take part in this survey about shopping. This research is implemented by Centerdata and Ipsos on behalf of a client.

The survey consists of two parts. In the first part, we will ask you to imagine that you are looking for certain products. You will be presented with different situations in which you might buy these products. In each situation, we ask you what you think of the product and whether you would buy it. In the second part, you will be asked more general questions about yourself and your shopping behaviour. The survey takes approximately 15 minutes to complete.

Your response will be strictly confidential. The client for this research will not receive any information that would allow you to be identified, such as your name. Your response will be grouped together with the responses provided by all the participants.

[Stop: timer_intro]

Part 1: Screener/Quota Tracking

Base: All respondents



[Start: timer_screeners]

First, we ask you some general questions about yourself.

Q1 (Age):

[Standard Screener: DO NOT MODIFY OR TRANSLATE] YEAR/MONTH. What is your date of birth?

- YEAR
- _1910 1910
- . . .
- _2015 2015
- MONTH
- _1 January
- _2 February
- _3 March
- _4 April
- _5 May
- _6 June
- _7 July
- _8 August
- _9 September
- _10 October
- _11 November
- _12 December

[Standard Screener: DO NOT MODIFY OR TRANSLATE]

QUOTAGERANGE [Hidden]. Hidden Question - QUOTAGERANGE "this is a dummy question that will hold age breaks" for the quotas that should be defined by the PM; it CAN be edited and lines can

be added to meet survey objectives.

_15_24 "15"24" _25_34 "25-34", _35_44 "35-44", _45_54 "45-54", _55_65 "55-65" _66_99 "66 and older"

[PROG: TERMINATE IF LESS THAN 15]

[Standard Screener: DO NOT MODIFY OR TRANSLATE]

RESP_AGE [Hidden]. Hidden Question - RESP_AGE "this is a dummy question that will hold age" USE RESP_AGE [Hidden] response list

Q2 (Gender): Are you ... [PROG: SINGLE RESPONSE]



- 1. Female
- 2. Male
- 3. Other
- 4. Prefer not to answer

Q3 (Region): In which region do you live? [PROG: SINGLE RESPONSE] [PROG: insert country specific <REGION LIST Excel> NUTS2 regions]

Q4 (Income): What is your household's monthly income (that is, after income taxes have been paid)?

Your total household income includes your own income plus the incomes of all household members who live together with you. The total income includes income from jobs, pensions, social security, interest, dividends, capital gains claimed, profits from businesses, unemployment payments, and all other money you received.

[PROG: SINGLE RESPONSE] [PROG: insert country specific <INCOME LIST Excel>]

999. Prefer not to answer 9999. Don't know

Q5 (Making ends meet): Thinking of your household's monthly income, how easy or difficult is it for your household to make ends meet?

- 1. Very difficult
- 2. Fairly difficult
- 3. Neither easy nor difficult
- 4. Fairly easy
- 5. Very easy
- 999. Don't know

[Stop: timer_screeners]

Part 2: Exposure to original products

Base: All respondents [Start: timer_part1]

Now, imagine that you are looking for a new <u>kettle</u> and a pair of <u>sunglasses</u>, for yourself or a friend. You also almost ran out of <u>hand soap</u>. You look online and visit stores to buy these items.

On the next screens, you will see six products that you encounter while shopping. Please indicate, for each product, what you think of the product and whether you would consider buying it.

[PROG: SHOW THE BELOW VIGNETTES IN RANDOM ORDER, capture the order]

[PROG: Each vignette shown includes a picture of a specific product with brand information visible in the picture and product price provided as text under the picture.]



	Product type	Brand type	Product	Brand name
				(deleted in the report)
1.	Low-involvement	Everyday	Hand soap	
	product	brand		
2.	Low-involvement	High status	Hand soap	
	product	brand		
3.	High-involvement	Everyday	Kettle	
	functional	brand		
	product			
4.	High-involvement	High status	Kettle	
	functional	brand		
	product			
5.	High-involvement	Everyday	Sunglasses	
	hedonic/luxury	brand		
	product			
6.	High-involvement	High status	Sunglasses	
	hedonic/luxury	brand		
	product			

PROG: show Q6 till Q8 per vignette (so 6 times, and capture as Q6_1 till Q6_6, same for Q7 and Q8), use sliders

[Attitude towards the product & purchase intention; Van Horen & Pieters, 2012, 2017]

Q6. What is your impression of this product?

Negative	1	2	3	4	5	6	7	8	9	Positive
Unattractive	1	2	3	4	5	6	7	8	9	Attractive

Q7. If you were looking for [Scripter: add relevant product], would you consider buying this product?

Definitely not	2	3	4	5	6	7	8	9	Definitely so
-------------------	---	---	---	---	---	---	---	---	------------------

Q8. How familiar are you with the brand "PROG: insert name"?



Never										Know it
heard	1	2	3	4	5	6	7	8	9	very
of it										well

[Stop: timer_part1]

Part 3: Evaluation of counterfeit products

Base: All respondents

[Start: timer_part2]

In the next part, you will again see a number of products that you may encounter while shopping.

All products that you will see in this part are **counterfeit products**. A counterfeit product is a fake version of an original product. It looks the same and is usually marked with the brand or logo of the original product, without the permission of the company that sells the original.

Base: All respondents

Now, imagine again that you are looking for a new <u>kettle</u> and a pair of <u>sunglasses</u>, for yourself or a friend. You also plan to buy <u>hand soap</u>.

On the next screens, you will be presented with 12 situations in which you might buy these products (all **counterfeit products**). Each time, you will receive information about the product (shown in a picture), the price, and where you encounter it.

Please indicate, in each situation, what you think of the product and whether you would consider buying it. Please examine the product and situation carefully before providing your answers.

Base: all respondents

[PROG: SHOW THE BELOW VIGNETTES IN RANDOM ORDER BASED ON RESPONDENT GROUP, capture order]

If group = 1, then show VIGNETTE1-VIGNETTE12

If group = 2, then show VIGNETTE13-VIGNETTE24

If group = 3, then show VIGNETTE25-VIGNETTE36

If group = 4, then show VIGNETTE37-VIGNETTE48

If group = 5, then show VIGNETTE49-VIGNETTE60

If group = 6, then show VIGNETTE61-VIGNETTE72

If group = 7, then show VIGNETTE73-VIGNETTE84



If group = 8, then show VIGNETTE85-VIGNETTE96

Each group is exposed to 4 vignettes for each of 3 product types (12 vignettes in total).

Each vignette includes a picture of a specific product with brand information visible in the picture and some additional information provided in the text below. Information provided in the text below includes details about the product place of purchase, product price, product quality, and product similarity to the original.

PROG: show Q9 till Q10 per vignette (so 12 times, and capture as Q9_1 till Q9_12, same for Q10), use sliders

[MEASURE TIME TAKEN TO EVALUATE EACH VIGNETTE]

[Start: timer_vignette 1, 2,12]

[Stop: timer_vignette 1, 2,12]

IF GROUP=3 OR 4: show HEALTH AND SAFETY WARNING, before proceeding to show vignettes:

Please note that the ingredients / components present in the counterfeit products may not comply with the relevant industry standards and could expose users to health and safety risks.

IF GROUP=5 OR 6: show RISK OF PUNISHMENT WARNING, before proceeding to show vignettes:

Please note that in some EU countries it is illegal to buy counterfeit goods.

IF GROUP=7 OR 8: show both health and safety and risk of punishment warnings, then proceed to show vignettes:

Please note that the ingredients / components present in the counterfeit products may not comply with the relevant industry standards and could expose users to health and safety risks.

Please note that in some EU countries it is illegal to buy counterfeit goods.

Q9. What is your impression of this product?

Negative	1	2	3	4	5	6	7	8	9	Positive
Unattractive	1	2	3	4	5	6	7	8	9	Attractive

Q10. If you were looking for [Scripter: add relevant product], would you consider buying this product?



Definitely 1 not	2	3	4	5	6	7	8	9	Definitely so
---------------------	---	---	---	---	---	---	---	---	------------------

Part 4: Person-related characteristics

Base: All respondents

[Start: timer_part3]

Finally, we would like to ask you some more general questions about yourself and your shopping behaviour.

Base: All respondents

[Value consciousness; adapted from Lichtenstein et al., 1990]

Q11 SGRID (progressive grid)

To what extent do you agree or disagree with the following statements?

Rows (randomize):

- 1. When shopping, I compare the prices of different brands to be sure I get the best value for the money
- 2. When purchasing a product, I always try to maximize the quality I get for the money I spend
- 3. When I buy products, I like to be sure that I am getting my money's worth
- 4. I always check prices to be sure I get the best value for the money I spend
- 5. I am very concerned about low prices, but I am equally concerned about product quality Columns:
 - 1. Strongly disagree
 - 2. Disagree
 - 3. Neither agree, nor disagree
 - 4. Agree
 - 5. Strongly agree

Base: All respondents

[Need to belong/normative susceptibility; adapted from Bearden et al., 1989]

Q12 SGRID (progressive grid)

To what extent do you agree or disagree with the following statements?

Rows (randomize):

- 1. It is important that others like the products and brands I buy
- 2. When buying products, I generally purchase those brands that I think others will approve of
- 3. I like to know what brands and products make good impressions on others



4. I achieve a sense of belonging by purchasing the same products and brands that others purchase

Columns:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree, nor disagree
- 4. Agree
- 5. Strongly agree

Base: All respondents

[Prior purchase of counterfeits; EUIPO Perception study; Tom et al., 1998]

Q13. Have you ever knowingly purchased a counterfeit productⁱ (meaning you knew the product you bought was fake)?

PROG: Mouse-over (i): A counterfeit product is a fake version of an original product. It looks the same and is usually marked with the brand or logo of the original product, without the permission of the company that sells the original.

- 1. Yes
- 2. No
- 3. Don't know
- 4. Prefer not to say

Base: Q13 = 1

[Prior purchase of counterfeits; EUIPO Perception study; Tom et al., 1998]

Q14. How often have you knowingly purchased a counterfeit product?

- 1. Rarely
- 2. Occasionally
- 3. Sometimes
- 4. Often
- 5. Prefer not to say

Base: Q13 = 1

Q15. When was the last time you knowingly purchased a counterfeit product?

- 1. Less than a year ago
- 2. More than a year ago
- 3. Don't know
- 4. Prefer not to say

Base: All respondents

[Personal integrity; adapted from Vitell & Muncy, 2005]

Q16 SGRID (progressive grid)



To what extent do you believe the following actions to be wrong or not wrong?

Rows (randomize order):

- 1. Reporting a lost item as "stolen" to an insurance company in order to collect the insurance money
- 2. Returning damaged goods when the damage was your own fault
- 3. Getting too much change and not saying anything
- 4. Not saying anything when the waiter or waitress miscalculates a bill in your favour
- 5. Lying about a child's age to get a lower price
- 6. Returning merchandise after trying it and not liking it
- 7. Buying counterfeit goods instead of buying the original manufacturers' brands

Columns:

- 1. 1 Strongly believe that it is wrong
- 2. 2
- 3. 3
- 4. 4
- 5. 5 Strongly believe that it is **not** wrong

Base: All respondents

[Attitude towards counterfeits; adapted from EUIPO Perception study; Mishra & Rana, 2019; Yoo & Lee, 2009]

Q17 SGRID (progressive grid)

Finally, please indicate to what extent you agree or disagree with the following statements.

Rows (randomize):

- 1. It is acceptable to purchase a counterfeit product when the original product is overpriced
- 2. It is acceptable to purchase a counterfeit product when you cannot afford to purchase the original brand
- 3. Counterfeit products are just as good as the original products
- 4. Buying counterfeit products demonstrates that you are a wise shopper
- 5. Buying counterfeit products harms the companies that manufacture and sell the original product
- 6. Buying counterfeit products poses a threat to health and safety
- 7. Buying counterfeit products supports child labour and illegal trafficking
- 8. Buying counterfeit products is an act of protest against big brands

Columns:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree, nor disagree
- 4. Agree



5. Strongly agree

[St: timer_part3]

[END OF SURVEY]



Annex B Summary of factors presented in the literature reviewed

Factor	Influence, as specified in the	Source, as specified in the article:
	article:	
Age	Negative impact on purchase	Bian, X., & Veloutsou, C. (2007).
	intent	Consumers' attitudes regarding non-
		deceptive counterfeit brands in the UK
		and China. Journal of Brand
		Management, 14(3), 211–222.
Age	Positive impact on purchase	Li, T., & Seaton, B. (2015). Emerging
	intent	consumer orientation, ethical perceptions,
		and purchase intention in the counterfeit
		smartphone market in China. Journal of
		International Consumer Marketing, 27,
		27–53.
Age	Negative impact on purchase	Randhawa, P., Calantone, R. J., &
	intent	Voorhees, C. M. (2015). The pursuit of
		counterfeited luxury: An examination of
		the negative side effects of close
		consumer-brand connections. Journal of
		Business Research, 68(11), 2395–2403.
Age	Negative impact on purchase	Rod, A., Rais, J., Schwarz, J., &
	intent	Čermáková, K. (2015). Economics of
		luxury: Counting probability of buying
		counterfeits of luxury goods. Procedia
		Economics and Finance, 30(15), 720-
		729.
Age	Negative impact on purchase	Tom, G., Garibaldi, B., Zeng, Y., & Picher,
	intent	J. (1998). Consumer demand for
		counterfeit goods. Psychology &
		Marketing, 15(5), 405–421.



intentTse, A. C. B., Sin, L. Y. M., Keong, K. K., & Chow, R. P. M. (2009). Do traditional Chinese cultural values nourish a market for pirated cds? Journal of Business Ethics, 88(1), 185–196.Attitudes towards lawfulnessNegative impact on purchase intentCordell, V. V., Wongtala, N., & Kieschnich, R. L. (1996). Counterfeit purchase intentions: Role of lawfulness attitudes and product traits as determinants. Journal of Business Research, 35(1), 42–53.EducationNo significant impact on purchase intentBian, X., & Veloutsou, C. (2007). Consumers' attitudes regarding non- deceptive counterfeit brands in the UK and China. Journal of Brand Management, 14(3), 211–222.EnjoymentPositive impact on purchase intentPenz, E., & Stöttinger, B. (2012). A comparison of the emotional and motivational aspects in the purchase of luxury products versus counterfeits. Journal of Brand Management, 19(7), 581–594.Ethic judgementNegative impact on purchase intentWan, W. W. N., Luk, C. L., Yau, O. H. M., Tse, A. C. B., Sin, L. Y. M., Keong, K. K., & Chow, R. P. M. (2009). Do traditional Chinese cultural values nourish a market for pirated cds? Journal of Business Ethics, 88(1), 185–196.Ethical valueNegative impact on purchase intentKozar, J. M., & Marcketti, S. B. (2011). Examining ethics and materialism with purchase of counterfeits. Social Responsibility Journal, 7(3), 393–404.	Age	Negative impact on purchase	Wan, W. W. N., Luk, C. L., Yau, O. H. M.,
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purchase of counterfeits. Social	Ethical value	Negative impact on purchase	Kozar, J. M., & Marcketti, S. B. (2011).
		intent	Examining ethics and materialism with
Responsibility Journal, 7(3), 393–404.			purchase of counterfeits. Social
			Responsibility Journal, 7(3), 393–404.



Fear	Negative impact on purchase	Penz, E., & Stöttinger, B. (2012). A
	intent	comparison of the emotional and
		motivational aspects in the purchase of
		luxury products versus counterfeits.
		Journal of Brand Management, 19(7),
		581–594.
Fun	Positive impact on purchase	Penz, E., & Stöttinger, B. (2012). A
	intent	comparison of the emotional and
		motivational aspects in the purchase of
		luxury products versus counterfeits.
		Journal of Brand Management, 19(7),
		581–594.
Hedonic benefits	Positive impact on purchase	Bian, X., Wang, K. Y., Smith, A., &
	intent	Yannopoulou, N. (2016). New insights into
		unethical counterfeit consumption. Journal
		of Business Research, 69(10), 4249–
		4258.
Hedonic benefits	Positive impact on purchase	Kaufmann, H. R., Petrovici, D. A., Filho,
	intent	C. G., & Ayres, A. (2016). Identifying
		moderators of brand attachment for
		driving customer purchase intention of
		original vs counterfeits of luxury brands.
		Journal of Business Research, 69(12),
		5735–5747.
Household	Positive impact on purchase	Rod, A., Rais, J., Schwarz, J., &
income	intent	Čermáková, K. (2015). Economics of
		luxury: Counting probability of buying
		counterfeits of luxury goods. Procedia
		Economics and Finance, 30(15), 720-
		729.
Integrity	Negative impact on purchase	Ang, S. W., Cheng, P. S., Lim, E. A. C., &
	intent	Tambyah, S. K. (2001). Spot the
		difference: Consumer responses towards

CHOICE EXPERIMENT FOR THE DEMAND FOR COUNTERFEITS WORKSTREAM



		counterfeits. Journal of Consumer
		Marketing, 18(3), 219–235.
Integrity	Negative impact on purchase	Phau, I., Sequeira, M., & Dix, S. (2009a).
	intent	To buy or not to buy a "counterfeit" Ralph
		Lauren polo shirt. Asia-Pacific Journal of
		Business Administration, 1(1), 68–80.
Integrity	Negative impact on purchase	Phau, I., Teah, M., & Lee, A. (2009).
	intent	Targeting buyers of counterfeits of luxury
		brands: A study on attitudes of
		Singaporean consumers. Journal of
		Targeting, Measurement and Analysis for
		Marketing, 17(1), 3–15.
Integrity	Negative impact on purchase	Türkyılmaz, C. A., & Uslu, A. (2014). The
	intent	role of individual characteristics on
		consumers' counterfeit purchasing
		intentions: Research in fashion industry".
		Journal of Management Marketing
		Logistics, 1(3), 259–275.
Materialism	Positive impact on purchase	Kozar, J. M., & Marcketti, S. B. (2011).
	intent	Examining ethics and materialism with
		purchase of counterfeits. Social
		Responsibility Journal, 7(3), 393–404.
Materialism	Positive impact on purchase	Türkyılmaz, C. A., & Uslu, A. (2014). The
	intent	role of individual characteristics on
		consumers' counterfeit purchasing
		intentions: Research in fashion industry".
		Journal of Management Marketing
		Logistics, 1(3), 259–275.
Moral belief	Negative impact on purchase	Kim, J., Kim, JE., & Park, J. (2012).
	intent	Effects of cognitive resource availability
		on consumer decisions involving
		counterfeit products: The role of perceived

CHOICE EXPERIMENT FOR THE DEMAND FOR COUNTERFEITS WORKSTREAM



		justification. Marketing Letters, 23(3),
		869–881.
Moral intensity	Negative impact on purchase	Koklic, M. K. (2011). Non-deceptive
	intent	counterfeiting purchase behavior:
		Antecedents of attitudes and purchase
		intentions. Journal of Applied Business
		Research, 27(2), 127–137.
Novelty seeking	Positive impact on purchase	Agarwal, S., & Panwar, S. (2016).
	intent	Consumer orientation towards counterfeit
		fashion products: A qualitative analysis.
		IUP Journal of Brand Management, 13(3),
		55–74.
Perceived	Positive impact on purchase	Bian, X., Wang, K. Y., Smith, A., &
financial value	intent	Yannopoulou, N. (2016). New insights into
		unethical counterfeit consumption. Journal
		of Business Research, 69(10), 4249–
		4258.
Perceived	Positive impact on purchase	Engizek, N., & Şekerkaya, A. (2015). Is
financial value	intent	the price only motivation source to
		purchase counterfeit luxury products?
		Journal of Academic Research in
		Economics, 7(1), 89–118.
Perceived	Positive impact on purchase	Engizek, N., & Şekerkaya, A. (2015). Is
financial value	intent	the price only motivation source to
		purchase counterfeit luxury products?
		Journal of Academic Research in
		Economics, 7(1), 89–118.
Perceived risk	No significant impact on	Khalid, M., & Rahman, S. (2015). Word of
	purchase intent	mouth, perceived risk and emotions,
		explaining consumers' counterfeit
		products purchase intention in a
		developing country: Implications for local



		and international original brands.
		Advances in Business[1]Related Scientific
		Research Journal, 6(2), 145–160.
Perceived	Positive impact on purchase	Penz, E., Schlegelmilch, B. B., &
financial value	intent	Stöttinger, B. (2009). Voluntary purchase
		of counterfeit products empirical evidence
		from four countries. Journal of
		International Consumer Marketing, 21,
		67–84.
Perceived	Positive impact on purchase	Poddar, A., Foreman, J., Banerjee, S., &
financial value	intent	Ellen, P. S. (2012). Exploring the Robin
		Hood effect: Moral profiteering motives for
		purchasing counterfeit products. Journal
		of Business Research, 65(10), 1500–
		1506.
Perceived risk	Negative impact on purchase	Koklic, M. K. (2011). Non-deceptive
	intent	counterfeiting purchase behavior:
		Antecedents of attitudes and purchase
		intentions. Journal of Applied Business
		Research, 27(2), 127–137.
Perceived risk	Negative impact on purchase	Liao, C. H., & Hsieh, I. Y. (2013).
	intent	Determinants of consumer's willingness to
		purchase gray-market smartphones.
		Journal of Business Ethics, 114(3), 409-
		424.
Perceived	Negative impact on purchase	Li, T., & Seaton, B. (2015). Emerging
unethicality	intent	consumer orientation, ethical perceptions,
		and purchase intention in the counterfeit
		smartphone market in China. Journal of
		International Consumer Marketing, 27,
		27–53.



Personal	Negative impact on purchase	Türkyılmaz, C. A., & Uslu, A. (2014). The
gratification	intent	role of individual characteristics on
		consumers' counterfeit purchasing
		intentions: Research in fashion industry".
		Journal of Management Marketing
		Logistics, 1(3), 259–275.
Household	No significant impact on	Norum, P. S., & Cuno, A. (2011). Analysis
income	purchase intent	of the demand for counterfeit goods.
		Journal of Fashion Marketing and
		Management: An International Journal,
		15(1), 27–40.
Gender	No significant impact on	Norum, P. S., & Cuno, A. (2011). Analysis
	purchase intent	of the demand for counterfeit goods.
		Journal of Fashion Marketing and
		Management: An International Journal,
		15(1), 27–40.
Education	No significant impact on	Norum, P. S., & Cuno, A. (2011). Analysis
	purchase intent	of the demand for counterfeit goods.
		Journal of Fashion Marketing and
		Management: An International Journal,
		15(1), 27–40.
Self ambiguity	Positive impact on purchase	Fernandes, C. (2013). Analysis of
	intent	counterfeit fashion purchase behavior in
		UAE. Journal of Fashion Marketing and
		Management: An International Journal,
		17(1), 85–97.
Household	No significant impact on	Penz, E., Schlegelmilch, B. B., &
income	purchase intent	Stöttinger, B. (2009). Voluntary purchase
		of counterfeit products empirical evidence
		from four countries. Journal of
		International Consumer Marketing, 21,
		67–84.



Education	No significant impact on	Penz, E., Schlegelmilch, B. B., &
	purchase intent	Stöttinger, B. (2009). Voluntary purchase
		of counterfeit products empirical evidence
		from four countries. Journal of
		International Consumer Marketing, 21,
		67–84.
Age	No significant impact on	Penz, E., Schlegelmilch, B. B., &
	purchase intent	Stöttinger, B. (2009). Voluntary purchase
		of counterfeit products empirical evidence
		from four countries. Journal of
		International Consumer Marketing, 21,
		67–84.
Self-expanding	Positive impact on purchase	Inkon, K. (2013). A Study on luxuries
desire	intent	possession desires and purchase
		intention: A comparative study between
		luxuries and limitations. Academy of
		Entrepreneurship Journal, 19(3), 63–78.
Materialism	No significant impact on	Phau, I., Sequeira, M., & Dix, S. (2009b).
	purchase intent	Consumers' willingness to knowingly
		purchase counterfeit products. Direct
		Marketing: An International Journal, 3(4),
		262–281.
Self-image	Positive impact on purchase	Bian, X., Wang, K. Y., Smith, A., &
enhancement	intent	Yannopoulou, N. (2016). New insights into
		unethical counterfeit consumption. Journal
		of Business Research, 69(10), 4249–
		4258.
Personal	No significant impact on	Phau, I., Teah, M., & Lee, A. (2009).
gratification	purchase intent	Targeting buyers of counterfeits of luxury
		brands: A study on attitudes of
		Singaporean consumers. Journal of
		Targeting, Measurement and Analysis for
		Marketing, 17(1), 3–15.



Self-monitoring	Negative impact on purchase	Engizek, N., & Şekerkaya, A. (2015). Is
ability	intent	the price only motivation source to
		purchase counterfeit luxury products?
		Journal of Academic Research in
		Economics, 7(1), 89–118.
Sense of interest	Positive impact on purchase	Bian, X., Wang, K. Y., Smith, A., &
	intent	Yannopoulou, N. (2016). New insights into
		unethical counterfeit consumption. Journal
		of Business Research, 69(10), 4249–
		4258.
Shame	Negative impact on purchase	Penz, E., & Stöttinger, B. (2012). A
	intent	comparison of the emotional and
		motivational aspects in the purchase of
		luxury products versus counterfeits.
		Journal of Brand Management, 19(7),
		581–594.
Smart shopper	Positive impact on purchase	Penz, E., & Stöttinger, B. (2012). A
	intent	comparison of the emotional and
		motivational aspects in the purchase of
		luxury products versus counterfeits.
		Journal of Brand Management, 19(7),
		581–594.
Smart shopper	Positive impact on purchase	Türkyılmaz, C. A., & Uslu, A. (2014). The
	intent	role of individual characteristics on
		consumers' counterfeit purchasing
		intentions: Research in fashion industry".
		Journal of Management Marketing
		Logistics, 1(3), 259–275.
Gender	No significant impact on	Randhawa, P., Calantone, R. J., &
	purchase intent	Voorhees, C. M. (2015). The pursuit of
		counterfeited luxury: An examination of
		the negative side effects of close
		consumer-brand connections. Journal of
		Business Research, 68(11), 2395–2403.



Affordability	No significant impact on	Randhawa, P., Calantone, R. J., &
	purchase intent	Voorhees, C. M. (2015). The pursuit of
		counterfeited luxury: An examination of
		the negative side effects of close
		consumer-brand connections. Journal of
		Business Research, 68(11), 2395–2403.
Materialism	No significant impact on	Trinh, V., & Phau, I. (2012). The
	purchase intent	overlooked component in the consumption
		of counterfeit luxury brands studies:
		Materialism— A Literature Review.
		Contemporary Management Research,
		8(3), 251–264.
Value	Positive impact on purchase	Agarwal, S., & Panwar, S. (2016).
consciousness	intent	Consumer orientation towards counterfeit
		fashion products: A qualitative analysis.
		IUP Journal of Brand Management, 13(3),
		55–74.
Value	Positive impact on purchase	Ang, S. W., Cheng, P. S., Lim, E. A. C., &
consciousness	intent	Tambyah, S. K. (2001). Spot the
		difference: Consumer responses towards
		counterfeits. Journal of Consumer
		Marketing, 18(3), 219–235.
Value	Positive impact on purchase	Marketing, 18(3), 219–235. Fernandes, C. (2013). Analysis of
Value consciousness	Positive impact on purchase intent	
		Fernandes, C. (2013). Analysis of
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		Fernandes, C. (2013). Analysis of counterfeit fashion purchase behavior in UAE. Journal of Fashion Marketing and
		Fernandes, C. (2013). Analysis of counterfeit fashion purchase behavior in UAE. Journal of Fashion Marketing and Management: An International Journal,
consciousness	intent	Fernandes, C. (2013). Analysis of counterfeit fashion purchase behavior in UAE. Journal of Fashion Marketing and Management: An International Journal, 17(1), 85–97.
consciousness Value	intent Positive impact on purchase	Fernandes, C. (2013). Analysis of counterfeit fashion purchase behavior in UAE. Journal of Fashion Marketing and Management: An International Journal, 17(1), 85–97. Geiger-Oneto, S., Gelb, B. D., Walker, D.,
consciousness Value	intent Positive impact on purchase	Fernandes, C. (2013). Analysis of counterfeit fashion purchase behavior in UAE. Journal of Fashion Marketing and Management: An International Journal, 17(1), 85–97. Geiger-Oneto, S., Gelb, B. D., Walker, D., & Hess, J. D. (2012). Buying status by



Value	Positive impact on purchase	Phau, I., Teah, M., & Lee, A. (2009).
consciousness	intent	Targeting buyers of counterfeits of luxury
		brands: A study on attitudes of
		Singaporean consumers. Journal of
		Targeting, Measurement and Analysis for
		Marketing, 17(1), 3–15.
Value	Positive impact on purchase	Randhawa, P., Calantone, R. J., &
consciousness	intent	Voorhees, C. M. (2015). The pursuit of
01130100311033		counterfeited luxury: An examination of
		the negative side effects of close
		consumer-brand connections. Journal of
Value	Desitive impact on purchase	Business Research, 68(11), 2395–2403.
	Positive impact on purchase	Türkyılmaz, C. A., & Uslu, A. (2014). The
consciousness	intent	role of individual characteristics on
		consumers' counterfeit purchasing
		intentions: Research in fashion industry".
		Journal of Management Marketing
		Logistics, 1(3), 259–275.
Attitude toward	Negative impact on purchase	Marticotte, F., & Arcand, M. (2017).
the original brand	intent	Schadenfreude, attitude and the purchase
		intentions of a counterfeit luxury brand.
		Journal of Business Research, 77, 175–
		183.
Product	No significant impact on	Bian, X., & Moutinho, L. (2009). An
knowledge	purchase intent	investigation of determinants of counterfeit
		purchase consideration. Journal of
		Business Research, 62(3), 368–378.
Brand loyalty	Negative impact on purchase	d'Astous, A., & Gargouri, E. (2011).
	intent	Consumer evaluations of brand imitations.
		European Journal of Marketing, 35(1/2),
		153–167.
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Product /	No significant impact on	Bian, X., & Moutinho, L. (2009). An
category	purchase intent	investigation of determinants of counterfeit
involvement		purchase consideration. Journal of
		Business Research, 62(3), 368–378.
Brand personality	Positive impact on purchase	Bian, X., & Moutinho, L. (2009). An
of CF	intent	investigation of determinants of counterfeit
	Intent	
		purchase consideration. Journal of
		Business Research, 62(3), 368–378.
Product /	No significant impact on	Bian, X., & Moutinho, L. (2011a). The role
category	purchase intent	of brand image, product involvement, and
involvement		knowledge in explaining consumer
		purchase behavior of counterfeits.
		European Journal of Marketing, 45(1/2),
		191–216.
Brand sensitivity	Negative impact on purchase	d'Astous, A., & Gargouri, E. (2011).
	intent	Consumer evaluations of brand imitations.
		European Journal of Marketing, 35(1/2),
		153–167.
Corporate image	Positive impact on purchase	Penz, E., & Stottinger, B. (2008). Original
of CF	intent	brands and counterfeit brands—Do they
		have anything in common? Journal of
		Consumer Behavior, 7(2), 146–163.
Corporate image	Positive impact on purchase	Penz, E., & Stottinger, B. (2008). Original
of original brand	intent	brands and counterfeit brands—Do they
		have anything in common? Journal of
		Consumer Behavior, 7(2), 146–163.
Features of the	No significant impact on	d'Astous, A., & Gargouri, E. (2011).
imitation	purchase intent	Consumer evaluations of brand imitations.
		European Journal of Marketing, 35(1/2),
		153–167.
Features of the	Positive impact on purchase	Gentry, J. W., Putrevu, S., & Shultz, C. J.
imitation	intent	(2006). The effects of counterfeiting on
		consumer search. Journal of Consumer
		Behavior, 5(3), 245–256. Goffman, E.



	(1959). Presentation of self in everyday
	life. New York: The Overlook Press.
. .	Kaufmann, H. R., Petrovici, D. A., Filho,
purchase intent	C. G., & Ayres, A. (2016). Identifying
	moderators of brand attachment for
	driving customer purchase intention of
	original vs counterfeits of luxury brands.
	Journal of Business Research, 69(12),
	5735–5747.
Positive impact on purchase	Poddar, A., Foreman, J., Banerjee, S., &
intent	Ellen, P. S. (2012). Exploring the Robin
	Hood effect: Moral profiteering motives for
	purchasing counterfeit products. Journal
	of Business Research, 65(10), 1500–
	1506.
Positive impact on purchase	Marticotte, F., & Arcand, M. (2017).
intent	Schadenfreude, attitude and the purchase
	intentions of a counterfeit luxury brand.
	Journal of Business Research, 77, 175–
	183.
Positive impact on purchase	Penz, E., & Stottinger, B. (2008). Original
intent	brands and counterfeit brands—Do they
	have anything in common? Journal of
	Consumer Behavior, 7(2), 146–163.
Positive impact on purchase	Cordell, V. V., Wongtala, N., &
intent	Kieschnich, R. L. (1996). Counterfeit
	purchase intentions: Role of lawfulness
	attitudes and product traits as
	determinants. Journal of Business
	intent Positive impact on purchase



with CFintentConsumer orientation towards counterfeit fashion products: A qualitative analysis. IUP Journal of Brand Management, 13(3), 55–74.Prior experience with CFPositive impact on purchaseWan, W. W. N., Luk, C. L., Yau, O. H. M., Tse, A. C. B., Sin, L. Y. M., Keong, K. K., & Chow, R. P. M. (2009). Do traditional Chinese cultural values nourish a market for pirated cds? Journal of Business Ethics, 88(1), 185–196.Prior experience with CFPositive impact on purchase intentYoo, B., & Lee, S. (2012). Asymmetrical effects of past experiences with genuine fashion luxury brands and their counterfeits on purchase intention of each. Journal of Business Research, 65(10), 1507–1515.Prior experience with original brandPositive impact on purchase intentYoo, B., & Lee, S. (2012). Asymmetrical effects of past experiences with genuine fashion luxury brands and their counterfeits on purchase intention of each. Journal of Business Research, 65(10), 1507–1515.Prior experience with original brandPositive impact on purchase intentYoo, B., & Lee, S. (2012). Asymmetrical effects of past experiences with genuine fashion luxury brands and their counterfeits on purchase intention of each. Journal of Business Research, 65(10), 1507–1515.Product / involvementNegative impact on purchase intentd'Astous, A., & Gargouri, E. (2011). Consumer evaluations of brand imitations. European Journal of Marketing, 35(1/2), 153–167.Product / ProductPositive impact on purchase intentBian, X., & Moutinho, L. (2009). An investigation of determinants of counterfeit purchase consideration. Journal of Business Research, 62(3), 368–378. </th <th>Prior experience</th> <th>Positive impact on purchase</th> <th>Agarwal, S., & Panwar, S. (2016).</th>	Prior experience	Positive impact on purchase	Agarwal, S., & Panwar, S. (2016).
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purchase consideration. Journal of	Product	Positive impact on purchase	Bian, X., & Moutinho, L. (2009). An
	attributes	intent	investigation of determinants of counterfeit
Business Research, 62(3), 368–378.			purchase consideration. Journal of
			Business Research, 62(3), 368–378.



Product	Negative impact on purchase	d'Astous, A., & Gargouri, E. (2011).
familiarity	intent	Consumer evaluations of brand imitations.
		European Journal of Marketing, 35(1/2),
		153–167.
Propensity to buy	Negative impact on purchase	Randhawa, P., Calantone, R. J., &
authentic brand	intent	Voorhees, C. M. (2015). The pursuit of
		counterfeited luxury: An examination of
		the negative side effects of close
		consumer-brand connections. Journal of
		Business Research, 68(11), 2395–2403.
Product	No significant impact on	Penz, E., Schlegelmilch, B. B., &
knowledge	purchase intent	Stöttinger, B. (2009). Voluntary purchase
		of counterfeit products empirical evidence
		from four countries. Journal of
		International Consumer Marketing, 21,
		67–84.
Self-brand	Positive impact on purchase	Randhawa, P., Calantone, R. J., &
connection	intent	Voorhees, C. M. (2015). The pursuit of
		counterfeited luxury: An examination of
		the negative side effects of close
		consumer-brand connections. Journal of
		Business Research, 68(11), 2395–2403.
Social brand	Positive impact on purchase	Randhawa, P., Calantone, R. J., &
connection	intent	Voorhees, C. M. (2015). The pursuit of
		counterfeited luxury: An examination of
		the negative side effects of close
		consumer-brand connections. Journal of
		Business Research, 68(11), 2395–2403.
Prior experience	No significant impact on	Randhawa, P., Calantone, R. J., &
with CF	purchase intent	Voorhees, C. M. (2015). The pursuit of
		counterfeited luxury: An examination of
		the negative side effects of close
		consumer-brand connections. Journal of
		Business Research, 68(11), 2395–2403.



Product	No significant impact on	Sharma, P., & Chan, R. Y. K. (2017).
knowledge	purchase intent	Exploring the role of attitudinal functions in
		counterfeit purchase behavior via an
		extended conceptual framework.
		Psychology & Marketing, 34(3), 294–308.
Fashion	Negative impact on purchase	Engizek, N., & Şekerkaya, A. (2015). Is
consciousness	intent	the price only motivation source to
		purchase counterfeit luxury products?
		Journal of Academic Research in
		Economics, 7(1), 89–118.
Fashion	Positive impact on purchase	Türkyılmaz, C. A., & Uslu, A. (2014). The
consciousness	intent	role of individual characteristics on
		consumers' counterfeit purchasing
		intentions: Research in fashion industry".
		Journal of Management Marketing
		Logistics, 1(3), 259–275.
Gaining	Positive impact on purchase	Turunen, L. L. M., & Laaksonen, P.
admiration	intent	(2011). Diffusing the boundaries between
		luxury and counterfeits. Journal of Product
		& Brand Management, 20(6), 468–474.
Occupational	No significant impact on	Geiger-Oneto, S., Gelb, B. D., Walker, D.,
prestige	purchase intent	& Hess, J. D. (2012). Buying status by
		choosing or rejecting luxury brands and
		their counterfeits. Journal of the Academy
		of Marketing Science, 41(3), 357–372.
Normative	Negative impact on purchase	Engizek, N., & Şekerkaya, A. (2015). Is
influences	intent	the price only motivation source to
		purchase counterfeit luxury products?
		Journal of Academic Research in
		Economics, 7(1), 89–118.
Normative	Negative impact on purchase	Ang, S. W., Cheng, P. S., Lim, E. A. C., &
susceptibility	intent	Tambyah, S. K. (2001). Spot the
		difference: Consumer responses towards



		counterfeits. Journal of Consumer
		Marketing, 18(3), 219–235.
Public self-	No significant impact on	Kaufmann, H. R., Petrovici, D. A., Filho,
consciousness	purchase intent	C. G., & Ayres, A. (2016). Identifying
		moderators of brand attachment for
		driving customer purchase intention of
		original vs counterfeits of luxury brands.
		Journal of Business Research, 69(12),
		5735–5747.
Perceived social	Negative impact on purchase	Li, T., & Seaton, B. (2015). Emerging
consequences	intent	consumer orientation, ethical perceptions,
		and purchase intention in the counterfeit
		smartphone market in China. Journal of
		International Consumer Marketing, 27,
		27–53.
Perceived social	Positive impact on purchase	Engizek, N., & Şekerkaya, A. (2015). Is
value	intent	the price only motivation source to
		purchase counterfeit luxury products?
		Journal of Academic Research in
		Economics, 7(1), 89–118.
Sensitivity to	No significant impact on	Marticotte, F., & Arcand, M. (2017).
negative social	purchase intent	Schadenfreude, attitude and the purchase
consequences		intentions of a counterfeit luxury brand.
		Journal of Business Research, 77, 175–
		183.
Reference group	Positive impact on purchase	Inkon, K. (2013). A Study on luxuries
belonging	intent	possession desires and purchase
		intention: A comparative study between
		luxuries and limitations. Academy of
		Entrepreneurship Journal, 19(3), 63–78.



Positive impact on purchase	Marticotte, F., & Arcand, M. (2017).
intent	Schadenfreude, attitude and the purchase
	intentions of a counterfeit luxury brand.
	Journal of Business Research, 77, 175–
	183.
No significant impact on	Phau, I., Sequeira, M., & Dix, S. (2009a).
purchase intent	To buy or not to buy a "counterfeit" Ralph
	Lauren polo shirt. Asia-Pacific Journal of
	Business Administration, 1(1), 68–80.
No significant impact on	Phau, I., Teah, M., & Lee, A. (2009).
purchase intent	Targeting buyers of counterfeits of luxury
	brands: A study on attitudes of
	Singaporean consumers. Journal of
	Targeting, Measurement and Analysis for
	Marketing, 17(1), 3–15.
No significant impact on	Phau, I., Teah, M., & Lee, A. (2009).
purchase intent	Targeting buyers of counterfeits of luxury
	brands: A study on attitudes of
	Singaporean consumers. Journal of
	Targeting, Measurement and Analysis for
	Marketing, 17(1), 3–15.
No significant impact on	Phau, I., Teah, M., & Lee, A. (2009).
purchase intent	Targeting buyers of counterfeits of luxury
	brands: A study on attitudes of
	Singaporean consumers. Journal of
	Targeting, Measurement and Analysis for
	Marketing, 17(1), 3–15.
Positive impact on purchase	Inkon, K. (2013). A Study on luxuries
intent	possession desires and purchase
	intention: A comparative study between
	luxuries and limitations. Academy of
	Entrepreneurship Journal, 19(3), 63–78.
	intent No significant impact on purchase intent Positive impact on purchase



Social group	Positive impact on purchase	Turunen, L. L. M., & Laaksonen, P.
acceptance	intent	(2011). Diffusing the boundaries between
		luxury and counterfeits. Journal of Product
		& Brand Management, 20(6), 468–474.
Status	Positive impact on purchase	Agarwal, S., & Panwar, S. (2016).
consumption	intent	Consumer orientation towards counterfeit
		fashion products: A qualitative analysis.
		IUP Journal of Brand Management, 13(3),
		55–74.
Status	Positive impact on purchase	Geiger-Oneto, S., Gelb, B. D., Walker, D.,
consumption	intent	& Hess, J. D. (2012). Buying status by
		choosing or rejecting luxury brands and
		their counterfeits. Journal of the Academy
		of Marketing Science, 41(3), 357–372.
Status	Positive impact on purchase	Phau, I., Teah, M., & Lee, A. (2009).
consumption	intent	Targeting buyers of counterfeits of luxury
		brands: A study on attitudes of
		Singaporean consumers. Journal of
		Targeting, Measurement and Analysis for
		Marketing, 17(1), 3–15.
Status	Negative impact on purchase	Türkyılmaz, C. A., & Uslu, A. (2014). The
consumption	intent	role of individual characteristics on
		consumers' counterfeit purchasing
		intentions: Research in fashion industry".
		Journal of Management Marketing
		Logistics, 1(3), 259–275.
Subjective norms	Positive impact on purchase	Fernandes, C. (2013). Analysis of
	intent	counterfeit fashion purchase behavior in
		UAE. Journal of Fashion Marketing and
		Management: An International Journal,
		17(1), 85–97.



	Desitive impost on numbers	linetre entres A (2012) Dusiness athiss
Subjective norms	Positive impact on purchase	Jirotmontree, A. (2013). Business ethics
	intent	and counterfeit purchase intention: A
		comparative study on Thais and
		Singaporeans. Journal of International
		Consumer Marketing, 25(4), 281–288.
Susceptibility to	Positive impact on purchase	Agarwal, S., & Panwar, S. (2016).
interpersonal	intent	Consumer orientation towards counterfeit
pressures		fashion products: A qualitative analysis.
		IUP Journal of Brand Management, 13(3),
		55–74.
Symbolic values	positive impact on purchase	Juggessur, J., & Cohen, G. (2009). Is
	intent	fashion promoting counterfeit brands?
		Journal of Brand Management, 16(5–6),
		383–394.
Uniqueness	Positive impact on purchase	Agarwal, S., & Panwar, S. (2016).
	intent	Consumer orientation towards counterfeit
		fashion products: A qualitative analysis.
		IUP Journal of Brand Management, 13(3),
		55–74.
Word of mouth	Positive impact on purchase	Khalid, M., & Rahman, S. (2015). Word of
	intent	mouth, perceived risk and emotions,
		explaining consumers' counterfeit
		products purchase intention in a
		developing country: Implications for local
		and international original brands.
		Advances in Business[1]Related Scientific
		Research Journal, 6(2), 145–160.

Table 11: In-depth summary of factors discussed in the Baruönü & Kirezli (2018) article



Factor	Influence, as specified in the	Source, as specified in the article:
	article:	
Age	Younger consumers are more	Cheung, W.L., & Prendergast, G. (2006a).
	likely than older individuals to	Buyers' perceptions of pirated products in
	purchase counterfeit product	China. Marketing Intelligence & Planning,
		24(5) 446-462.
Age	Younger consumers are more	Eisend, M., & Schuchert-Guler, P. (2006).
	likely than older individuals to	Explaining counterfeit purchases: A
	purchase counterfeit product	review and preview. Academy of
		Marketing Science Review, 10(12), 1-25.
Being impulsive	Impulsive individuals are more	Musnaini, W. H., Anshori, M., & Astuti, S.
	likely to purchase counterfeit	W. (2015). Impulse buying behavior in
	products	counterfeit luxury brands product:
		Evidence from Indonesia. Undiksha
		Press.
Being impulsive	Impulsive individuals are more	Sondhi, N. (2019). Mapping the luxury
	likely to purchase counterfeit	purchase intentions of the counterfeit
	products	luxury buyers. International Journal of
		Management Practice, 12(4), 476-494.
Being	Being materialistic was also	Davidson, A., Nepomuceno, M.V., &
materialistic	found to be related to	Laroche, M. (2019). Shame on you: When
	purchasing counterfeit products	materialism leads to purchase intentions
		toward counterfeit products. Journal of
		Business Ethics, 155 (2), 479-494.
Being	Being materialistic was also	Nagar, K., & Singh, V.P. (2019). Modelling
materialistic	found to be related to	the effects of materialism, ethics and
	purchasing counterfeit products	variety-seeking behaviour on counterfeit
		consumption of young consumers. Global
		Business Review, 1-14.
Being novelty	Novelty seeking individuals are	Randhawa, P., Calantone, R.J., &
seeking	more likely to purchase	Voorhees, C.M. (2015). The pursuit of
	counterfeit products	counterfeited luxury: An examination of
		the negative side effects of close

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		consumer-brand connections. Journal of
		Business Research, 68(11), 2395- 2403.
Being novelty	Novelty seeking individuals are	Tang, F., Tian, V.I., & Zaichkowsky, J.
seeking	more likely to purchase	(2014). Understanding counterfeit
	counterfeit products	consumption. Asia Pacific Journal of
		Marketing and Logistics, 26(1), 4-20.
Being novelty	Novelty seeking individuals are	Phau, I., Sequeira, M., & Dix, S. (2009a).
seeking	more likely to purchase	Consumers' willingness to knowingly
Seeking	counterfeit products	purchase counterfeit products. Direct
	counterient products	Marketing: An International Journal, 3(4),
		262-281.
Poing religious		Casidy, R., Phau, I., & Lwin, M. (2016).
Being religious	The more consumers are	
	religious, the less likely they	Religiosity and digital piracy: An empirical
	purchase counterfeit products	examination. Services Marketing
		Quarterly, 37(1), 1-13.
Being religious	There is no relationship	Kidwell, J., Stevens, R., & Bethke, A.
	between religiosity and ethical	(1987). Differences in ethical perceptions
	judgments in business	between male and female managers:
		Myth or reality? Journal of Business
		Ethics, 6(6), 489-493.
Being religious	The more consumers are	Souiden, N., Ladhari, R., & Amri, A.Z.
	religious, the less likely they	(2018). Is buying counterfeit sinful?
	purchase counterfeit products	Investigation of consumers' attitudes and
		purchase intentions of counterfeit
		products in a Muslim country. International
		Journal of Consumer Studies, 42(6), 687-
		703.
Education	Consumers who have a higher	Craft, J.L. (2013). A review of the
	level of education may be more	empirical ethical decision-making
	unlikely to purchase counterfeit	literature: 2004-2011. Journal of Business
	products	Ethics, 117(2), 221-259.



Education	Consumers who have	Tolkach, D., Pratt, S., & Zeng, C.Y.
	bachelor's degree or higher are	(2017). Ethics of Chinese & western
	more likely to perceive	tourists in Hong Kong. Annals of Tourism
	purchasing counterfeit products	Research, 63, 83-96.
	as unethical	
Gender	Gender affects the ethical	Carpenter, J.M., & Lear, K. (2011).
	beliefs toward purchasing	Consumer attitudes toward counterfeit
	counterfeiting. More	fashion products: does gender matter?.
	specifically, they have asserted	Journal of Textile and Apparel,
	that females are more likely	Technology and Management, 7(1), 1-16.
	than males to purchase	
	counterfeit goods	
Gender	Males more likely than females	Cheung, W.L., & Prendergast, G. (2006b).
	to purchase counterfeit goods?	Exploring the materialism and conformity
		motivations of Chinese pirated product
		buyers. Journal of International Consumer
		Marketing, 18 (3), 8-31.
Gender	Males more likely than females	Moores, T., & Chang, J.C.J. (2006).
	to purchase counterfeit goods?	Ethical decision making in software piracy:
		Initial development and test of a four
		component model. MIS Quarterly, 30(1),
		167-180.
Income	Individuals with high income are	Cheung, W.L., & Prendergast, G. (2006a).
	more likely to purchase	Buyers' perceptions of pirated products in
	counterfeit goods	China. Marketing Intelligence & Planning,
		24(5) 446-462.
Income	Individuals with high income are	Phau, I., Teah, L., & Lee, A. (2009b).
	more likely to purchase	Targeting buyers of counterfeits of luxury
	counterfeit goods	brands: A study on attitudes of
		Singaporean consumers. Journal of
		Targeting, Measurement and Analysis for
		Marketing, 17, 3-15.



Income	Individuals with high income are	Riquelme, H.E., Abbas, E.M.S., & Rios,
	more likely to purchase	R.E. (2012). Intention to purchase fake
	counterfeit goods	products in an Islamic country. Education,
		Business and Society: Contemporary
		Middle Eastern Issues, 5(1), 6-22. Ritson,
		M. (2007). Fakes can genuinely aid luxury
		brands. Marketing, 25, 21-27.
Income	Individuals with high income in	Teah, M., & Phau, I. (2008). Attitudes
	Singapore were found to	towards counterfeits of luxury brands: the
	purchase counterfeit products.	Singapore story. In Proceedings of
	The purchase of counterfeit	Australian and New Zealand Marketing
	products may	Academy conference 2008. University of
	not be limited to individuals with	Western Sydney.
	low socioeconomic background	
Income	Individuals with low income	Viot, C., Le Roux, A., & Kremer, F. (2014).
	tend to purchase counterfeit	Attitude towards the purchase of
	products	counterfeits: Antecedents and effect on
		intention to purchase. Recherche et
		Applications en Marketing, 29(2), 3-31.
		Academy of Strategic Management
		Journal Volume 20, Issue 1, 2021 13
		1939-6104-20-1-689
Morality	May inhibit consumers from	Nagar, K., & Singh, V.P. (2019). Modelling
	buying counterfeit products	the effects of materialism, ethics and
		variety-seeking behaviour on counterfeit
		consumption of young consumers. Global
		Business Review, 1-14.
Morality	Some individuals practice moral	Orth, U.R., Hoffmann, S., Nickel, K.
	decoupling to solve the	(2019). Moral decoupling feels good and
	dilemma of choosing between	makes buying counterfeits easy. Journal
	buying an illegal counterfeit	of Business Research, 98, 117-125.
	product vs. status and money	
	saving, and end up purchasing	
	counterfeit products	



Morality	Many consumers do not	Riquelme, H.E., Abbas, E.M.S., & Rios,
	consider the purchase of a	R.E. (2012). Intention to purchase fake
	counterfeit as unethical.	products in an Islamic country. Education,
		Business and Society: Contemporary
		Middle Eastern Issues, 5(1), 6-22. Ritson,
		M. (2007). Fakes can genuinely aid luxury
		brands. Marketing, 25, 21-27.
Morality	Consumers buy counterfeit	Wang, Y., & Song, Y. (2013).
	products, due to their anti-big-	Counterfeiting: Friend or foe of luxury
	business ideologies	brands? An examination of Chinese
		consumers' attitudes toward counterfeit
		luxury brands. Journal of Global
		Marketing, 26(4), 173-187.
Past purchase of	Past history of purchasing	Yoo, B., & Lee, S.H. (2009). Buy genuine
counterfeits	counterfeit products is	luxury fashion products or counterfeits?.
	predictive of engaging in future	ACR North American Advances.
	purchase of counterfeit	
	products	
Place and time of	Consumers surveyed at flea	Cademan, A., Henriksson, R., & Nyqvist,
purchase	markets and during holidays	V. (2012). The affect of counterfeit
	were likely to buy counterfeit	products on luxury brands: An empirical
	products,	investigation from the consumer
	but consumers surveyed at	perspective.
	malls were less likely to buy	
	original products	
Place and time of	The reason consumers buy	Eisend, M., & Schuchert-Güler, P. (2015).
purchase	more counterfeit products	How consumers cope with buying
	during a holiday could be	counterfeits: Effects of dissonance
	related to less planning and/or	reduction strategies. In Proceedings of the
	positive mood	2008 Academy of Marketing Science
		(AMS) Annual Conference. Springer,
		Cham.



Product 1	The more accessible counterfeit	Quach, S., & Thaichon, P. (2018). Dark
(counterfeit) p	products are, the more people	motives-counterfeit selling framework: An
accessibility v	will purchase them	investigate on the supply side of the non-
		deceptive market. Marketing Intelligence
		& Planning, 36(2), 245-259.
Product price 1	The difference between the	Hadiwijaya, K. (2015). Consumer intention
difference p	price of the original and	of purchasing original and counterfeit
с	counterfeit product were also	products: A case study of Louis vuitton
f	found to explain preference for	wallet. iBuss Management, 3(2), 272-284.
þ	ourchasing counterfeit products	
Product price 1	The difference between the	Kapferer, J.N., & Laurent, G. (2016).
difference p	orice of the original and	Where do consumers think luxury begins?
с	counterfeit product were also	A study of perceived minimum price for 21
f	found to explain preference for	luxury goods in 7 countries. Journal of
F	purchasing counterfeit products	Business Research, 69(1), 332-340.
Product price 1	The difference between the	Staake, T., Thiesse, F., & Fleisch, E.
difference p	price of the original and	(2009). The emergence of counterfeit
с	counterfeit product were also	trade: a literature review. European
f	found to explain preference for	Journal of Marketing, 43(3/4), 320-349.
þ	ourchasing counterfeit products	
Product price I	It has been argued that luxury	Truong, Y., McColl, R., & Kitchen, P.J.
difference b	brands should lower their prices	(2009). New luxury brand positioning and
t	to become more attainable.	the emergence of masstige brands.
F	However, some argue that this	Journal of Brand Management, 16(5-6),
r	may work against luxury	375-382.
k	brands, as their very expensive	
F F	prices (prestige-pricing	
s	strategy) is argued to be a	
t	business strategy to keep them	
r		



Product quality	Perceived product quality and	Kassim, A.W.M., Igau, O.A., Swidi, A.K.,
and durability	perceived durability of products	Tahajuddin, S.B., & Neezm, S.M.A.
	after purchasing them plays a	(2013). The role of perceived product
	key role in purchasing products	quality and customer satisfaction on brand
	in general	loyalty among mobile phone users. In
	in general	Proceedings of the 6th International
		Conference of the Asian Academy of
		Applied Business.
Product quality	One reason for the increasing	Nill, A. & Shultz, C.J. II (1996). The
and durability	demand for counterfeit product	scourge of global counterfeiting. Business
and durability	is that their quality and	Horizons, 39(6), 37-41. Office of Strategy,
	perceived use life has been	Policy & Plans (2020). Combating
	increasing over the years	trafficking in counterfeit and pirated
	increasing over the years	goods: Report to the president of the
		United States.
Broduct quality	Perceived product quality and	Phau, I., Sequeira, M., & Dix, S. (2009a).
Product quality		
and durability	perceived durability of products	Consumers' willingness to knowingly
	after purchasing them plays a	purchase counterfeit products. Direct
	key role in purchasing products	Marketing: An International Journal, 3(4),
	in general	262-281.
Product quality	Because of the tough	Shams, K. (2015). As Louis Vuitton knows
and durability	competition between the quality	all too well, counterfeiting is a costly
	of counterfeit and original	bargain. Capital Flows.
	brands, Louis Vuitton has	
	withdrawn from the Italian	
	market, as many consumers	
	opted for purchasing counterfeit	
	products	
Product quality	As the quality of a counterfeit	Staake, T., Thiesse, F., & Fleisch, E.
and durability	product increases, it is more	(2009). The emergence of counterfeit
	justifiable for consumers to	trade: a literature review. European
	increasingly buy more of them	Journal of Marketing, 43(3/4), 320-349.



Product similarity	The more similar the counterfeit	Doss, F., & Robinson, T. (2013). Luxury
(counterfeit and	product is to the original	perceptions: Luxury brands vs counterfeit
original)	products; the more likely	for young US female consumers. Journal
	consumers will purchase it	of Fashion Marketing and Management,
		17, 424-439.
Product similarity	The more similar the counterfeit	Yao, V.W. (2006). An economic analysis
(counterfeit and	product is to the original	of counterfeit goods: The case of China.
original)	products; the more likely	Business and Public Administration
	consumers will purchase it	Studies, 1(1), 116-124.
Product type	The most popular counterfeit	Pasricha, D., Jain, K., & Gautam, S.
(related to its	market is clothing, watches,	(2018). Attitude of Indian consumers
associated risk of	and jewellery, respectively.	towards counterfeit luxury brands.
failure)		Proceedings of the management
		imperatives for Sustainable Growth' held
		at ICFAI Business School (IBS) Gurgaon
		on August 24.
Risk perceptions	Legal risk is related to the legal	Al Ramahi, N. (2017). Make it a crime to
	consequences that consumers	buy fake goods, police say. Retrived July
	may face if caught with fake	5, 2020.
	products	
Risk perceptions	Risk perceptions play a serious	Koay, K.Y. (2018). Understanding
	role in consumers' counterfeit	consumers' purchase intention towards
	purchasing decisions	counterfeit luxury goods: An integrated
		model of neutralisation techniques and
		perceived risk theory. Asia Pacific Journal
		of Marketing and Logistics, 30(2), 495-
		516.
Risk perceptions	Psychological risk is related to	Liao, C., Lin, H.N., & Liu, Y.P. (2010).
	the feeling of guilt due to the	Predicting the use of pirated software: A
	purchase of counterfeit items	contingency model integrating perceived
		risk with the theory of planned behaviour.
		Journal of Business Ethics, 91(2), 237-
		252.
L	l	



Risk perceptions	Physical risk is related to health	Martinez, L.F., & Jaeger, D.S. (2016).
	problems that may be caused	Ethical decision making in counterfeit
	by using counterfeit products	purchase situations: the influence of moral
		awareness and moral emotions on moral
		judgment and purchase intentions.
		Journal of Consumer Marketing, 33(3),
Dialenanantiana		213-223.
Risk perceptions	Social risk relates to feeling	Sharma, P. & Chan, R. (2016).
	ashamed if others realized that	Demystifying deliberate counterfeit
	the products are counterfeit	purchase behaviour. Marketing
		Intelligence & Planning, 34(3), 318-335.
Risk perceptions	Purchasing and wearing	Ting, M.S., Goh, Y.N., & Isa, S.M. (2016).
	counterfeit products is risky	Determining consumer purchase
	(different kinds of risk including	intentions toward counterfeit luxury goods
	social, legal, physical,	in Malaysia. Asia Pacific Management
	performance and psychological	Review, 21(4), 219-230.
	risks that affect consumers'	
	purchase of counterfeit	
	products).	
Social factors	Consumers buy counterfeit	Ahmed, T. (2016). Countering counterfeit
	products to copy and imitate	branding: Implications for public-sector
	others	marketing. Journal of Nonprofit & Public
		Sector Marketing, 28(3), 273-286.
Social factors	Having friends who purchase	Albers-Miller, N.D. (1999). Consumer
	counterfeit products increases	misbehavior: why people buy illicit goods.
	the chance to buy counterfeit	Journal of Consumer Marketing, 16, 273-
	products	287.
Social factors	Many individuals purchase	Amaral, N.B., & Loken, B. (2016), Viewing
	counterfeit products to signal	usage of counterfeit luxury goods: Social
	some social identity	identity and social hierarchy effects on
	-	dilution and enhancement of genuine
		luxury brands. Journal of Consumer
		Psychology, 26(4) 483-495.



	1	
Social factors	Many individuals purchase	Berger, J., & Heath, C. (2008). Who drives
	counterfeit products to signal	divergence? Identity signaling, outgroup
	some social identity	dissimilarity, and the abandonment of
		cultural tastes. Journal of Personality and
		Social Psychology, 95(3), 593-607.
Social factors	Some consumers in Pakistan	Husanian, M., & Akhtar, W. (2015). Impact
	purchase counterfeit products	of Lifestyle on Brand Preferences
	in order to appear unique	(Genuine versus Counterfeits
		Smartphones). Journal of Business
		Administration Research, 4 (2).
Social factors	Some individuals purchase	Jiang, L., & Cova, V. (2012). Love for
	counterfeit products if their	Luxury, Preference for Counterfeits - A
	friends wear luxury brands	Qualitative Study in Counterfeit Luxury
		Consumption in China. International
		Journal of Marketing Studies, 4, 6.
Social factors	Many individuals purchase	Jiang, L., & Cova, V. (2012). Love for
	counterfeit products to gain a	Luxury, Preference for Counterfeits - A
	high status in their social	Qualitative Study in Counterfeit Luxury
	environment	Consumption in China. International
		Journal of Marketing Studies, 4, 6.
Social factors	Desire to appear as belonging	Purwanto, P., Margiati, L., Kuswandi, K.,
	to some social class pushes	Prasetyo, B. (2019). Consumer motives
	consumers towards buying	for purchasing counterfeit luxury products:
	counterfeit products. So, their	Behind the status signalling behaviour
	focus is often on the brand and	using brand prominence. Business:
	less on the quality of the	Theory and Practice, 20, 208-215.
	product.	
Social factors	Several social factors play a	Quach, S., & Thaichon, P. (2018). Dark
	role in the purchase of	motives-counterfeit selling framework: An
	counterfeit products including	investigate on the supply side of the non-
	social approval, peer influence,	deceptive market. Marketing Intelligence
	and sense of belonging	& Planning, 36(2), 245-259.
L		1

Table 12: In-depth summary of factors discussed in the Elsantil & Hamza (2021) article



Annex C Profile lists presented in the experiment

C.1 Conjoint design

Using specialised software, a conjoint experimental design was developed with 96 vignettes in total. The vignettes were divided into four groups based on the combination of perceived risk of punishment (low, high; x6) and perceived health/safety risks (low, high; x7). The table below presents the factor levels of each of the 96 vignettes.

Variable	Factor	Factor levels
x1_type	Type of product	1 Everyday
		2 Investment
		3 Splurge
x2_brand	Brand	1 Low-status
		2 High-status
x3_price	Price	1 Low
		2 High
x4_quality	Quality of product	1 Low
		2 High
x5_similarity	Similarity to original	1 Low
		2 High
x6_riskpun	Perceived risk of punishment	1 No warning
		2 Warning
x7_riskhealth	Perceived health/safety risks	1 No Warning
		2 Warning
x8_channel	Purchase channel	1 Online
		2 Offline

Table 13: A legend for Tables 14



1111211121211111111131211111111131211111111141221211121111521211111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111 <th>Group</th> <th>Vignette</th> <th>x1</th> <th>x2</th> <th>х3</th> <th>x4</th> <th>x5</th> <th>x6</th> <th>x7</th> <th>x8</th>	Group	Vignette	x1	x2	х3	x4	x5	x6	x7	x8
1312111111141221211215211121112162121111111722121111118222211112193121211121103122111211321211121111221112111112111211112211122111122111211122111221612221112216122111122221111122231221111122 <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td>	1	1	1	1	1	2	1	1	1	2
14121121121521111111111621211111111722121111111822221112111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111 <td>1</td> <td>2</td> <td>1</td> <td>1</td> <td>2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td>	1	2	1	1	2	1	1	1	1	1
1521112111116212111111172212221111182222112111193121211121111103122111211111132122111211111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111 <td>1</td> <td>3</td> <td>1</td> <td>2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td>	1	3	1	2	1	1	1	1	1	1
1621211111172211111182222112193121211111031221112111321211211211232122112213111221122141112211221512221112216122211221612221122161222112218211111221922111122231111122311111122321111223321111223212 <t< td=""><td>1</td><td>4</td><td>1</td><td>2</td><td>2</td><td>1</td><td>2</td><td>1</td><td>1</td><td>2</td></t<>	1	4	1	2	2	1	2	1	1	2
17221211111822222112193121211111103122211121113212211121112321221122131112211221411221112215122211121612211122172112211221922111222231111122231111122231111222332111122231111222332111123212112213	1	5	2	1	1	1	2	1	1	2
18222211121931212111111031222112111321221112113212211121111221122131112211221411221122151222112216122111221721122112218211112221922111122231111112223111112222311111222332111112223121112232121121	1	6	2	1	2	1	1	1	1	1
19312121111110312221122111321211111112321221122131112211212141112211121512221111121612221111217211221112218211111122219221111222231111122223111111222311111222332111122231221112222312211223212112212<	1	7	2	2	1	2	1	1	1	1
11031221112111321211111232122112213111211221411221122141221122215122211121612221112172112211121821122111221922111122111112213111111112223111111111111111111111111111111111111111111111111111111111111111111	1	8	2	2	2	2	2	1	1	2
111321211111123212211221311121122141122112214112211221512221122161222111216122211121612211122182112111221922111112221311111112213111111122131111111223321111111224321111122326121111221311111111111111111111 <td< td=""><td>1</td><td>9</td><td>3</td><td>1</td><td>2</td><td>1</td><td>2</td><td>1</td><td>1</td><td>1</td></td<>	1	9	3	1	2	1	2	1	1	1
1123212211221311112112214111221112214122211122151222111221612221111121721122111221821111122111221922111112211122202211111122231221111122231221111222322111122325121211221321223281221121223223223322332233<	1	10	3	1	2	2	2	1	1	2
213111211221411122111215122211216122211122161222111217211221112182112211219221111222022111122131111122231211112233122111124321111122511221122232612121211328121212121330212121222331212122222233121212222222 <td>1</td> <td>11</td> <td>3</td> <td>2</td> <td>1</td> <td>2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td>	1	11	3	2	1	2	1	1	1	1
214112211121512221122161222111216122211121721122111218212211221922111122202211112213111112223111112233211111224321111122532112122325121121232512121213281212121329211212233021212223312121222331212122233121 <td< td=""><td>1</td><td>12</td><td>3</td><td>2</td><td>1</td><td>2</td><td>2</td><td>1</td><td>1</td><td>2</td></td<>	1	12	3	2	1	2	2	1	1	2
21512221112216122211121721122111217211221112182122111222192211112220221111222022111122202211112220221111223111112122231111223211112223321112232511221122326121212113281211221330212122233121212223312121222	2	13	1	1	1	1	2	1	1	2
216122221112172112211112182122111221922111112220221111112213111111122131221111122331211111112243211111111112233211111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111 <td< td=""><td>2</td><td>14</td><td>1</td><td>1</td><td>1</td><td>2</td><td>2</td><td>1</td><td>1</td><td>1</td></td<>	2	14	1	1	1	2	2	1	1	1
2172112211121821221112219221111222022121112220221111112213111112223312211112243211112332111112332111122332111122331121122330211212133121211223312121222	2	15	1	2	2	2	1	1	1	2
218212211122192211111222022111111221311111122223122111122233211211112243211112111224321111221112325112111221221223261211212112112112112112211211221111111111111111111111111111111111111111111111111111111111 <td< td=""><td>2</td><td>16</td><td>1</td><td>2</td><td>2</td><td>2</td><td>2</td><td>1</td><td>1</td><td>1</td></td<>	2	16	1	2	2	2	2	1	1	1
2192211112220221211112213111111222312211111223321121111224321111223211121122325112211223261212121232812112121330212121223312121222	2	17	2	1	1	2	2	1	1	1
22022121112213111112223122111122332112111122432111221122325112211222122326121121221221223281212112121221221223302121212212222222222222222222222222222222222222222222222222222222222222222222222222222222222	2	18	2	1	2	2	1	1	1	2
22131111112222312211112233211211122432211123251121122326121212232712121213281211121330212121223312121212233122122122	2	19	2	2	1	1	1	1	1	2
2223122111223321121112243221112232511221122326121212232712122121328122112123302121212233122122122	2	20	2	2	2	1	2	1	1	1
223321121112243221112232511221122326121221223271212121328122112132921121223302121212233122122122	2	21	3	1	1	1	1	1	1	2
2432211123251122112232612121221223271212212112132812211211211213292112121222222223302121221221222331221221221222	2	22	3	1	2	2	1	1	1	1
32511221122326121121223271212212132812211211329211211223302121212233122122122	2	23	3	2	1	1	2	1	1	1
32612112122327121221211328122111211329211211222330212121222331221221222	2	24	3	2	2	1	1	1	1	2
3271212212132812211121329212211223302121212233122122122	3	25	1	1	2	2	1	1	2	2
3281221121329211211223302121212233122122122	3	26	1	2	1	1	2	1	2	2
32921121223302121212233122122122	3	27	1	2	1	2	2	1	2	1
33021212233122122122	3	28	1	2	2	1	1	1	2	1
3 31 2 2 1 2 2 1 2 2	3	29	2	1	1	2	1	1	2	2
	3	30	2	1	2	1	2	1	2	2
3 32 2 2 2 2 1 1 2 1	3	31	2	2	1	2	2	1	2	2
	3	32	2	2	2	2	1	1	2	1



3	33	3	1	1	1	2	1	2	1
3	34	3	1	1	2	1	1	2	1
3	35	3	1	2	1	1	1	2	2
3	36	3	2	2	1	2	1	2	1
4	37	1	1	1	1	1	1	2	1
4	38	1	1	2	1	2	1	2	2
4	39	1	1	2	2	2	1	2	1
4	40	1	2	1	2	1	1	2	2
4	41	2	1	1	1	1	1	2	1
4	42	2	1	2	2	2	1	2	
				2					1
4	43	2	2		1	2	1	2	1
4	44	2	2	2	1	1	1	2	2
4	45	3	1	1	2	2	1	2	2
4	46	3	2	1	1	1	1	2	2
4	47	3	2	2	2	1	1	2	1
4	48	3	2	2	2	2	1	2	2
5	49	1	1	1	2	1	2	1	1
5	50	1	1	2	1	2	2	1	1
5	51	1	2	1	1	1	2	1	2
5	52	1	2	1	1	2	2	1	1
5	53	2	1	2	2	1	2	1	1
5	54	2	1	2	2	2	2	1	2
5	55	2	2	2	1	1	2	1	1
5	56	2	2	2	1	2	2	1	2
5	57	3	1	1	2	1	2	1	2
5	58	3	1	1	2	2	2	1	1
5	59	3	2	1	1	2	2	1	2
5	60	3	2	2	2	1	2	1	2
6	61	1	1	2	1	1	2	1	2
6	62	1	1	2	2	2	2	1	2
6	63	1	2	1	2	2	2	1	2
6	64	1	2	2	2	1	2	1	1
6	65	2	1	1	1	1	2	1	2

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6	66	2	1	1	1	2	2	1	1
6	67	2	2	1	2	1	2	1	2
6	68	2	2	1	2	2	2	1	1
6	69	3	1	1	1	1	2	1	1
6	70	3	1	2	1	2	2	1	2
6	71	3	2	2	1	1	2	1	1
6	72	3	2	2	2	2	2	1	1
7	73	1	1	1	1	1	2	2	2
7	74	1	1	2	2	1	2	2	1
7	75	1	2	2	1	2	2	2	1
7	76	1	2	2	2	2	2	2	2
7	77	2	1	1	2	1	2	2	1
7	78	2	1	2	1	2	2	2	1
7	79	2	2	1	1	2	2	2	2
7	80	2	2	2	2	2	2	2	1
7	81	3	1	1	1	2	2	2	2
7	82	3	1	2	2	1	2	2	2
7	83	3	2	1	1	1	2	2	1
7	84	3	2	1	2	1	2	2	2
8	85	1	1	1	1	2	2	2	1
8	86	1	1	1	2	2	2	2	2
8	87	1	2	1	2	1	2	2	1
8	88	1	2	2	1	1	2	2	2
8	89	2	1	1	2	2	2	2	2
8	90	2	1	2	1	1	2	2	2
8	91	2	2	1	1	1	2	2	1
8	92	2	2	2	2	1	2	2	2
8	93	3	1	2	1	1	2	2	1
8	94	3	1	2	2	2	2	2	1
8	95	3	2	1	2	2	2	2	1
8	96	3	2	2	1	2	2	2	2

Table 14: A complete list of vignettes used in the experiment



There are zero correlations between the individual factors (orthogonality; see the table below). In addition, all two-way interactions are estimable (there are 6 correlations of -0,1667 between interaction terms; all other correlations are zero).

	x1	x2	х3	x4	x5	x6	x7	x8
x1	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
x2	0.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000
x3	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0.000
x4	0.000	0.000	0.000	1.000	0.000	0.000	0.000	0.000
x5	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000
x6	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000
х7	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000
x8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000

Table 15: Correlations between factors

C.2 Statistical models

To analyse the data, multilevel regression analyses (also known as random-effects, mixed-effects or hierarchical linear regression analyses) were performed in Stata.⁴⁹ The regression models estimate the individual contribution of each factor to respondents' intention to buy a counterfeit product. The models are estimated using unweighted data.⁵⁰

In the experiment, each respondent evaluated 12 vignettes. Because multiple responses (e.g., purchase intention for vignette 1, purchase intention for vignette 2, etc.) were provided by the same respondent, the data have a "nested" structure, with responses (level 1) clustered *within* respondents (level 2). These responses tend to be correlated within respondents (e.g., respondents who report a relatively high purchase intention for the counterfeit in situation 1 are also more likely to report a relatively high purchase intention in situation 2). To account for this, we estimated multilevel

⁴⁹ Rabe-Hesketh, S., & Skrondal, A. (2008). *Multilevel and longitudinal modeling using Stata*. Stata press.

⁵⁰ In the multivariate regression analyses, no weighting was applied as this can lead to biased standard errors; see e.g., Winship, C., & Radbill, L. (1994). Sampling weights and regression analysis. *Sociological Methods & Research*, 23(2), 230-257.



regression models – random-intercept models to be specific. A random-intercept model is a model in which the intercept (the "baseline" purchase intention) is allowed to vary across respondents.⁵¹

<u>Model 1</u>: The outcome variable is respondents' intention to purchase the counterfeit product ("Would you consider buying this product if you were looking for [hand soap, a kettle, sunglasses]?), assessed on a scale from 1 (definitely not) to 9 (definitely so). The predictors are the manipulated product and situation-related factors (x1-x8; categorical) and the measured person-related factors (on an interval scale from 1 to 5). In addition, the analyses control for differences in brand familiarity as well as country differences (fixed effects). Correlations between predictors are zero (see C.1) or small (maximum correlation = -0.24, between personal integrity and need to belong; max. VIF = 1.20). Model results are reported in Table 7.

<u>Model 2</u>: Model 2 is the same as model 1, but additionally included all two-way interactions between the factors as predictors (max. VIF = 1.50). As a follow-up on the results, which revealed that the influence of several of the factors of interest significantly differed across the product and brand types used in the experiment, multilevel regression models (similar to model 1) were estimated for each of the six product/brand types separately. Model results are reported in Table 8.

Finally, using Latent Gold software, a multilevel latent class regression model was estimated to identify consumer segments.⁵² Here, we assume that the total respondent population consists of an (unknown) number of segments. The different segments differ in their responses to the (characteristics of the) counterfeit products, but respondents within a segment have similar responses. The segments are unobserved or "latent", meaning that, prior to the analysis, we do not know how many segments there are and what defines them (i.e., we let the data "speak"). In this case, the model combines (1) a model that predicts, for a number of unobserved segments, purchase intentions for counterfeit products (on a scale from 1 to 9) based on the product and situation-related factors (x1-x8, categorical), with brand familiarity as a control variable, and (2) a model that predicts segment membership based on person-related factors (value consciousness, personal integrity and the need to belong).⁵³ The model accounts for the fact that multiple responses come from the same respondent. Socio-demographic factors (age, gender, financial situation and country) are included as profiling variables (they are not used in the prediction of segments). Due to the large number of observations (N = 244,668), information criteria commonly used to determine the number of segments (e.g., BIC and CAIC) continued to improve with each additional segment, up to

⁵¹ Cohen, J., Cohen, P., West, S. G., & Aiken, L. S. (2013). *Applied multiple regression/correlation analysis for the behavioral sciences*. New York: Routledge.

⁵² Magidson, J., & Vermunt, J. K. (2005). A nontechnical introduction to latent class models. *DMA Research Council Journal*.

⁵³ Kamakura, W. A., Wedel, M., & Agrawal, J. (1994). Concomitant variable latent class models for conjoint analysis. *International Journal of Research in Marketing*, 11(5), 451-464.



over 15 segments. Therefore, we selected the solution based on the criteria of practical usefulness and segment size (no segments < 5%). The results of the five-segment model are reported in Table 9.



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