

THE RELATIONSHIP BETWEEN CIRCULAR FASHION AND SOCIAL DESIRABILITY BIAS IN MARKETING COMMUNICATION: AN ANALYSIS ON BRAND MESSAGES

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ETHICAL DECLARATION

I hereby declare that I am the sole author of this thesis and that I have conducted my work in accordance with academic rules and ethical behaviour at every stage from the planning of the thesis to its defence. I confirm that I have cited all ideas, information and findings that are not specific to my study, as required by the code of ethical behaviour, and that all statements not cited are my own.

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ABSTRACT

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This research aims to examine the relationship between consumers' social desirability tendency and their attitudes towards circular fashion practices. There is a widespread belief in society that only people of lower social status prefer to engage in circular fashion practices such as second-hand shopping and swapping activities (Çakır and Dedeoğlu, 2020). This situation causes a social risk that they are concerned about how others view their purchasing behaviors. Consumers who are afraid of facing a loss in their social image refrain from participating in these activities (Lang, Seo and Liu, 2019). This behavior is about social desirability bias which is defined as the tendency of people to indicate society-oriented behaviors rather than acting according to their own intention (Chung and Monroe, 2003). Social media messages about circular fashion practices of 6 different global fashion brands were examined and their messages were analyzed via semantic network analysis. In the next phase of the research, the data obtained from the network analysis was used to explore opinions of

44 participants about the different communication messages related to circular fashion with a semi-structured interview form. The social desirability tendency of the participants was measured with the short form of Marlowe-Crowne Social Desirability Scale including demographic questions. The exploratory research concludes with the extraction of four different themes which are clothing performance, emotional brand attachment, greenwashing concerns, and openness to change from both interviews and literature.

Keywords: circular fashion, circular economy, social desirability bias, semantic network analysis, semi-structured interview.

ÖZET

PAZARLAMA İLETİŞİMİNDE DÖNGÜSEL MODA İLE SOSYAL İSTENİRLİK EĞİLİMİ ARASINDAKİ İLİŞKİ: MARKA MESAJLARI ÜZERİNDEN BİR ANALİZ

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Bu araştırma, tüketicilerin sosyal istenirlik eğilimi ve döngüsel moda uygulamalarına ilişkin tutumları arasındaki ilişkinin incelenmesini amaçlamaktadır. Toplumda, sadece daha düşük sosyal statüye sahip kişilerin giyim eşyası kiralama ve takas gibi döngüsel moda faaliyetlerini tercih ettiğine dair yaygın bir kanı mevcuttur (Çakır ve Dedeoğlu, 2020). Bu durum, başkalarının kendi satın alma davranışlarını nasıl gördükleri konusunda endişe duymaları gibi sosyal bir risk oluşturmaktadır. Sosyal imajlarında bir kayıpla karşılaşmaktan korkan tüketiciler, bu faaliyetlere katılmaktan kaçınabilirler (Lang, Seo ve Liu, 2019). Bu davranış, insanların kendi niyetlerine göre hareket etmekten çok topluma yönelik davranışlar gösterme eğilimi olarak tanımlanan sosyal istenirlik yanlılığı olarak tanımlanmaktadır (Chung ve Monroe, 2003). Araştırmada seçilen 6 farklı global moda markasının döngüsel moda uygulamaları hakkındaki sosyal medya mesajları incelenmiş ve bu ifadeler anlamsal ağ analizi yoluyla analiz

edilmiştir. Araştırmanın sonraki adımında ise; ağ analizi sonucu elde edilen verilerden faydalanılarak 44 katılımcının döngüsel moda ile ilgili marka mesajları hakkındaki düşünceleri görüşme yöntemi kullanılarak keşfedilmeye çalışılmıştır. Aynı zamanda katılımcıların sosyal istenirlik düzeyi, Marlowe-Crowne Sosyal Arzu edilebilirlik Ölçeği (MCSAÖ)'nin kısa formu ile demografik sorulara da yer verilerek ölçülmüştür. Keşfedici araştırma, görüşmeler ve literatür taraması sonucunda giyim performansı, duygusal marka bağlılığı, yeşil aklama endişeleri ve yeniliklere açık olma durumu üzere dört farklı temanın oluşması ile sona ermektedir.

Anahtar Kelimeler: döngüsel ekonomi, döngüsel moda, sosyal istenirlik yanlılığı, ağ analizi, yarı yapılandırılmış görüşme.

TABLE OF CONTENTS

ABSTRAC	CT	. iv
ÖZET		. vi
TABLE OF	F CONTENTS	viii
LIST OF T	ABLES	x
LIST OF F	TIGURES	. xi
CHAPTER 1: INTRODUCTION		
1.1.Struc	cture of the Study	2
1.2.Aim 6	of the Study	3
	2: LITERATURE REVIEW	
	Fashion Business Model	
	Social Impact	
2.1.2.	Environmental Impact	10
2.2.Circi	ular Fashion Business Model	13
2.2.1.	Recycling	19
	Reusing	
2.2.2	2.1.Second-hand Clothing	23
2.2.2	2.2.Renting and Swapping	25
2.2.2	2.3.Upcycling	29
CHAPTER 3: METHODOLOGY		
3.1.Intro	duction	32
3.2.Appli	ication and Structure of the Semantic Network Analysis	32
3.2.1.	Content Analysis	32
3.2.2.	Semantic Network Analysis	32
3.2.3.	Data Collection and Coding Procedure Related to Semantic Network	
	Analysis	37
3.3.Research Design		37
3.3.1.	Exploratory Research	37
3.3.2.	Semi-Structured Interview	38
3.3.3.	Social Desirability Scale	42
CHAPTER	2 4: FINDINGS	44
4.1 Finds	ings of the Semi-Structured Interviews	44

LIST OF TABLES

Table 1. Demographics of Sample (N=44) Error! Bookmark not defined.41				
Table 2. Semantic Network Analysis Metrics of Instagram Posts Network Error				
Bookmark not defined.51				
Table 3. All Max Valued Core Values Error! Bookmark not defined.51				
Table 4. Frequency Distribution of Input Cluster Values Error! Bookmark not				
defined.52				
Table 5. Instagram Posts with Most Input Valued Core Values Error! Bookmark not				
defined.53				
Table 6. Frequency Distribution of Output Cluster Values Error! Bookmark not				
defined.55				
Table 7. 2 Instagram Posts with Most Output Valued Core Values Error! Bookmark				
not defined.55				
Table 8. Input Degrees in Instagram Posts Error! Bookmark not defined.57				
Table 9. Output Degrees in Instagram PostsError! Bookmark not defined.58				
Table 10. Input Closeness Centrality in Instagram PostsError! Bookmark not				
defined.59				
Table 11. Output Closeness Centrality in Instagram PostsError! Bookmark not				
defined.60				
Table 12. Betweenness Centrality in Instagram Posts Error! Bookmark not				
defined.61				
Table 13. Articulation Points in Instagram PostsError! Bookmark not defined.63				
Table 14. Summary of Semantic Network Analysis Findings of Instagram Posts				
Error! Bookmark not defined.63				
Table 15. The Short Form of Marlowe-Crown Social Desirability Scale Error				
Bookmark not defined.91				
Table 16. Turkish Version of the Short Form of Marlowe-Crown Social Desirability				
Scale Error! Bookmark not defined.92				

LIST OF FIGURES

Figure 1. Input Valued Core Network	Error! Bookmark not defined.54
Figure 2. Output Valued Core Network	Error! Bookmark not defined.56
Figure 3. Plutchik's Wheel of Emotions	Error! Bookmark not defined.98
Figure 4. Plutchik's Wheel of Emotions (Turkis	sh).Error! Bookmark not defined.98

CHAPTER 1: INTRODUCTION

Fashion is a USD 1.3 trillion industry which provides employment opportunities to more than 300 million people all over the globe (Gazzola et al., 2020, p. 1). It has complex global supply chain structures including many ties within its value chain and operates in an extremely competitive environment dominated by multinational brands. Total clothing production roughly increased by 50% from 2000 to 2014 (Remy, Speelman, and Swartz, 2016, p. 2). The biggest driving force behind this growth was the rise of new model in the industry commonly known as "fast fashion". This trend emerged in the beginning of the 1990s and then became popular in the mid-2000s. Fast fashion can be described as a business model which provides fashionable garments with lower prices and short lead times to consumers.

Fashion trends which were previously gathered throughout two main fashion seasons (spring-summer and autumn-winter) are now being examined under many micro-seasons with the fast fashion phenomenon. The main priority of fashion retailers has become to respond to these changing trends as quickly as possible by the aim of attracting attention of more consumers. Since short lead times and low labor costs are essential in this model, near shore manufacturing is preferred in the countries as Turkey, Bulgaria, Romania, and Morocco (Caro and Martínezde-Albéniz, 2015, pp. 5-7). Because of its super-fast manufacturing in developing countries where the regulation framework of environment and workers is looser, quality of the clothing has become lower. Due to the shorter life spans of garments, they are discarded instead of being repaired or used again according to fast fashion model (Peters, Li, and Lenzen, 2021, p. 2). These features have been causing various environmental and social impacts on both the consumer and manufacturer countries.

As environmental and social impact of the linear model has been incrementally growing, it was widely acknowledged that sustainable growth based on this pattern is not possible. The model of "slow fashion" which put emphasis on the values of sustainable design, manufacture and consumption as opposed to fast fashion was introduced. This fashion model, which is based on local and smaller manufacturing rather than complex global supply chains targets increasing consumer awareness in terms of purchasing fewer but more qualified garments (Oliveira, Miranda and Dias, 2022, p. 3). The most popular fast fashion brands followed this new trend and focused on eco-friendly marketing campaigns for their collections, such as the "Join Life" of

Zara in 2016 and the "Conscious Collection" of H&M in 2010. Despite these branding activities of the fast fashion companies, their inconvenient retail environment and throwaway culture were the main factors for consumers to start moving away from them. According to the study of Zhang, Zhang, and Zhou (2021 pp. 2-3), one third of consumers prefer to purchase from environmentally and socially conscious brands and almost half of consumers feel better when they shop from these brands. However, Rausch, Baier, and Waning (2021, pp. 1-3) state that even though consumers indicate their positive attitude towards these brands, this attitude does not turn into purchasing behavior due to the relatively higher prices of sustainable products. In addition to economic risk perceived, aesthetic issues affecting buying behavior is that sustainable garments are generally perceived as unfashionable by consumers. These price related and aesthetic concerns as well as attitude-behavior gap of the consumers can be considered as key barriers for transition towards to the sustainable clothing.

Circular economy (CE) which concentrates in reduce, reuse, and recycle in both the manufacture and consumption has been accepted as an alternative model by rejecting the "end-of-life" term (Kirchherr et al., 2018, p. 264). Even though the concept entered to the academic literature at the end of the 1960s, global organizations, policymakers, and companies have been introducing their circular programs especially in the last decade to create better communities with social and economic wellbeing and enhance environmental quality. For instance, while the circular economy package was accepted in Europe with a directive on waste in 2008, China adopted Circular Economy Promotion Law as its national development model in the same year (Suarez-Eiroa et al., 2019, p. 953). In 2013, the importance of circular economy for the future of businesses and our world was recognized by more than 30% of global chief executives (Velenturf and Purnell, 2021, p. 1438). Even though it would not be as easy as one-two-three to achieve circularity in the fashion industry, there is a mounting pressure of individuals, non-governmental bodies, and governments on the fashion companies for transition towards more sustainable production and supply chain management.

1.1.Structure of the Study

This study consists of 5 chapters including an introduction and aim of the paper. After this chapter, the second one contains literature review which provides the previous academic research about the thesis topic. Fast fashion business model, its social and environmental impacts are examined. Through a literature review, circular

economy approach is explained as an alternative to this business model with its applications including recycling, reusing (renting and swapping), and upcycling. The third chapter is methodology involving the research methods of this study. In addition, sampling, data collection, coding procedure and data analyzing techniques are explained. Content analysis, social network analysis and semi-structured interview are also examined in this section. The fourth chapter presents the data analysis and findings. The final one delivers conclusions, limitations, and recommendations of the study for further research.

1.2.Aim of the Study

Circular economy is not a quick win concept but requires continuous efforts to create sustainable development (Kirchherr et al., 2018, p. 269). That's why it is widely embraced that transition to circular fashion model requires collaborative efforts of governments, consumers, and businesses. Although theoretical framework has been defined by global organizations and governmental agencies, business strategies also has been shaped by fashion industry towards circular applications. It is needed for consumers to consider their consumption habits and support more circular future. Cultural acceptance of consumers has an important impact on the transition process to CE applications. Since shifting of these routines takes longer due to the lack of awareness about the CE concept, it is seen as a key barrier regarding the business model (Jesus and Mendonça, 2018, p. 83). Korsunova, Horn, and Vainio (2021, p. 759) agree that existing purchasing decisions and lack of sufficient information of consumers about the circular practices are important impediments to leave linear fashion model.

While some scholars have researched consumer traits and behaviors in terms of collaborative consumption models for other product groups (Edbring, Lehner and Mont, 2016, p. 6), for the circular fashion applications this study has been realized in specific countries including Finland (Korsunova, Horn and Vainio, 2021), Sweden (Borg, Mont and Schoonover, 2020) and Korea (Kim, Hye and Lee, 2021). Given that consumer awareness and eagerness to adopt new consumption habits is a must, effect of social desirability tendency of the consumers on these applications including recycling, reusing e.g., collaborative consumption, and upcycling are not discussed. This study aims to fill this literature gap by addressing this research questions:

1. Is there any relationship between social desirability bias and engaging in circular fashion?

- 2. How does the social desirability level of individuals affect their tendency to engage in circular fashion?
- 3. What is the attitude of consumers with lower levels of social desirability scores towards circular fashion?
- 4. What is the attitude of consumers with higher levels of social desirability scores towards circular fashion?

CHAPTER 2: LITERATURE REVIEW

2.1. Fast Fashion Business Model

A few global macroeconomic events beginning with the economic recession in the 1970s and easing of capital controls through financial globalization became catalyst for commercialization of the fashion sector. In the 2000s, end of the Multifibre Agreement which puts limitation on the quantities exported from developing countries and entry of China to the World Trade Organization were the other major improvements for the industry. To keep up with the changing conditions and increasing competition, fashion wear companies had to outsource their manufacturing to the developing world. They either closed or decreased the number of their mills by subcontracting work-intensive parts including sewing and finishing to peripheral regions or local workshops where mostly employ migrants and female day laborers. Thereby, local sweatshops also became a widely used phenomenon for the fashion firms which ask for benefit from the proximity of their manufacturers. One of the main factors that makes sweatshops prevalent was the large number of migrant workers. As they may face various barriers in terms of accessing formal labor, this industry which its barriers to entry to is quite low was suitable. Especially, irregular migrants were forced to accept the conditions of working excessive hours with less payments. Without the existence of these workers, the emergence of a new fashion trend which is based on flexible production and labor force has not been possible.

Another driving legislations formation in the sector was the reduction of state controls on the workplace legislation. With the intention of protecting their local manufacturers in the global competitive environment, governments pursued a policy of loosening safety and health regulations of the factories. Their cost reduction in the production process through the subcontracting method allowed companies to find an opportunity to invest in brand and image building by using various marketing communication tools (Bressán, 2018, pp. 86-90). Target market of fashion marketing was expanded to different demographic groups rather than only upper-income women because of these efforts.

Depending upon the fashion propaganda, demand for fashionable products increased in society. In the 1990s, a new business model "fast fashion" (Moran, Eichelmann, and Buggy, 2021, p. 5), "quick fashion" or "street fashion" (Turker and Altuntas, 2014, p. 838) emerged with proliferation of the marketing activities and

increasing demand of clothing with affordable prices. To respond quickly to changing trends, offering fashionable designs with frequent assortment shifts was a must. For this reason, companies discovered a method of copying the models of premium fashion brands and offering similar designs by using lower quality materials. Retailers started to follow fashion shows of the dominant global brands to prepare their collections. Thus, the time between design and consumption phases has been reduced dramatically.

With the aim of refreshing product ranges, several seasons were proliferated by fashion brands. Frequency of the collections was increased by making them smaller and brands started to shift from product-centered to consumer-centered strategies as a response to increasing competition. Consumers started to become fashion-conscious and push retailers to produce garments seen on the shows as quickly as possible. Their capability to reach more brands and consume more frequently increased as trend cycles sped up around the world (Bhardwaj and Fairhurst, 2010, pp. 165-167). 47% increase in fiber production per person from 2000 to 2015 (Peters, Li, and Lenzen, 2021, p. 2) also explains the increase in the frequency of consumption. According to Pereira et al. (2021, p. 8), customers purchase more than 50% of garments and use them for half time duration compared to fifteen years ago. This impulse purchasing behavior is common among the consumers who are not very informed about the effects of the current fashion trend on people and environment. Currently, the best-known applicant of this trend is Zara, which is one of the biggest global retail brands. Even, in the industry "Zara model" is known for selling small quantities of garments with lower prices and replenishment of each store with new models as quickly as possible. The basic strategy behind this model is highlighting the idea 'if you don't purchase this product now, you will not be able to see it tomorrow'. Despite the high unit costs due to manufacturing in limited quantities, the brand desires to keep its prices affordable and thus pay low fees to the subcontractors (Crofton and Dopico, 2007, pp. 42-46). This situation was described as "democratization of fashion" because garments once were luxurious for many consumers became accessible (Zhang, Zhang and Zhou, 2021 p. 1). The proliferation of this strategy within the industry required the other fashion firms to work with a number of subcontractors which offer cheap labor and short lead times, since it is hard to respond for large manufacturers to these demands.

Fast fashion follows a linear model including three major steps: take, make, and waste. Since this model is based on the idea of short-lasting clothing, it can be explained as "planned obsolescence" (Piippo, Niinimäki and Aakko, 2022, p. 2). As at

"take" stage, companies collect their raw materials to produce new garments, "make" includes clothing manufacturing activities (Brydges, 2021, p. 3). As the last step of process, most of the products which are manufactured from non-renewable materials end up in landfills. Research by Weber, Lynes, and Young (2016, p. 208) differentiates fast fashion from other models with its high rates of landfilling and destroying waste. They also define fast fashion consumers as people who wear their clothes for a very limited period. Palm, Cornell and Häyhä (2021, pp. 662-663) criticize the linear model due to its lack of user phase. According to the authors, take, make, use, waste describe the model better by highlighting the importance of consumption step. The traditional model is not able to explain the power of consumer decisions about purchasing, consumption and landfilling. It cannot be denied that consumers are at the center of the fashion value chain and their decisions play a determining role for the brands. Because they are the key decision makers to purchase garments or to dispose of their waste, to decrease environmental impact of the industry, social factors should be examined.

According to Ellen MacArthur Foundation, an estimated USD 500 billion is lost every year because of landfilling and incineration (2017, p. 3). The British luxury brand Burberry clearly stated in its 2017-2018 Annual Report that the cost of goods the company destroyed in that year was £ 28.6 million to protect its brand image. Then, it was revealed that the total cost of the excess inventory the brand had incinerated over the last five years was about £90 million. According to the House of Commons Environmental Audit Committee (2019, pp. 44-45), Burberry claimed that incineration does not have a negative impact on environment in the beginning, since energy created from the process is captured and utilized in other activities. However, the brand decided to give up its practice and promised to reuse, recycle, or donate its unsold goods after criticism from environmental groups. The other brand which burns its excess inventory in the same intention as Burberry is H&M. Value of the products incinerated as of 2020 is nearly USD 4.4 billion (Ki, Park, and Ha-Brookshire, 2020, p. 1122). Currently dominant fast fashion model, based on overproduction of the garments more than people need, has been fueling the throwaway culture.

To discourage landfill waste at the consumer level, new measures such as a waste disposal fee was introduced in some regions including New Jersey and New Zealand. Instead of paying a fixed amount of taxes for the waste collection, consumers are charged based on the amount they throw. Pay-as-you-throw policies can be quite

impactful for shifting throwaway culture as well as shopping habits of the consumers. Given that the number of garments incinerated increased 800 percent since the 1960s, there is an urgent need to expand these policies which aim to raise awareness and engage consumers. In addition to these responsibilities, governments' roles also include informing society behind the scenes of the fast fashion companies' operations and preventing misleading marketing communication companies about their impacts. In 2013, Israeli government took an action to regulate advertising in the fashion industry with the "Photoshop Law" but for a different aim. According to this law, advertiser has to state clearly whether there is a retouch on the body images. The main objective of this regulation is preventing eating disorder problems in the country (Mizrachi and Tal, 2022, pp. 12-14). Every single actor in society can play a role in terms of minimizing the impacts of fast fashion and searching for more sustainable options. In addition to administrative bodies, governments and companies, consumers are key for the industry's future with their decision-making mechanisms.

2.1.1. Social Impact

The fashion industry is an important source of economic growth and social wellbeing for many countries. It supplies 3% of the value-added products and 6% of the manufacturing jobs in Europe (Koszewska, 2018, p. 338). Nevertheless, since the late 20th century developed countries have been outsourcing their supply chain activities from the ones with low labor and manufacturing costs and weak environmental regulations. Subcontracting is a method extensively used in the fashion industry to have flexibility in manufacturing process. Rather than hiring fixed-term employees, companies have been paying through piecework for each garment produced. This way is quite advantageous, especially for the large companies in terms of managing seasonal demand shifts and reducing their risks. (Montero, 2011, p. 55). It also allows companies to pass especially manual stages of the manufacture such as sewing and finishing to its subcontractors both inside and outside of the country. However, this method is highly criticized because of the exploitative factory conditions, especially in the developing world.

Even though, industrial disasters especially 1911 New York Triangle Shirtwaist Factory fire that caused death of hundreds of employees had become a contributor for improving safety standards of the garment workers. Unfortunately, these improvements stayed limited to the regions of US and Europe and could not be impactful for low- and middle-income countries (Bick, Halsey, and Ekenga, 2018, pp.

1-2). Today, garment workers' wages are still among the lowest compared to other industries. In Argentina, more than half of the workers are living even below the property level. The situation is not different in Greece where Bangladeshi migrants make up majority of the workforce. The sweating system is usually based on daily payments to the migrant workers with no legal documentation protecting their rights in the workplace. Trade unions also are not effective to indicate strong opposition to these conditions, as their main goal became keeping investments within the borders and surviving the pressure of global competition (Bressán, 2018, p.73). In addition, these workers are mostly exposed to unhealthy factory environment and longer working hours in the factories. Lack of transparency in the supply chains and existence of strict regulations (Brandão, Gadekar and Cardoso, 2018, p. 325) is a key reason for widespread prevalence of sweatshops in the developing countries. These countries where ninety percent of the world's total garment is manufactured also report serious illnesses on garment workers including cancer, lung diseases, and musculoskeletal hazards due to the poor and non-ergonomic working conditions (Bick, Halsey and Ekenga, 2018, p. 2). Rana Plaza, Bangladesh in which 1130 garment workers lost their lives and thousands of them got injured during the collapse of the factory in 2013 is one of the major examples indicating the possible results of loosely regulated sweatshop conditions. The walls were damaged the day before the disaster while the building was being expanded illegally. The owner of the factory, Sohel Rana denied the danger and sent all workers to their stations though, none of the employees was inside of the plaza during the collapse. After the incident, 38 people including Sohel Rana were found guilty of murder for hundreds of people.

In fashion supply chains, women and girls are incommensurably affected by forced labor. In 2016, it was revealed that female workers of a contractor for both H&M and C&A in Bengaluru, India were being treated and paid unequally with men. Additionally, their movements were limited by security agents, and they were able to go out from the workplaces only two hours a week (Portway, 2019, pp. 51-56). Additional example takes place in Tamil Nadu, another region from India. Young girls are forced to work within the cotton mills twelve hours a day, for a period of three years. They are not allowed to visit their homes and their wages are paid to the parents. Marriages of these girls are also arranged during this period. This common tradition in the district is known as "sumangali system" according to the House of Commons Environmental Audit Committee (2019, p. 22). These examples indicate the brutal

conditions that especially female garment workers suffer from in today's fashion industry.

Move of garment manufacturing to the developing world where the competitive advantage in labor costs reduced production in the western countries. China is the largest exporter country of the industry; while its total textile exports worth \$110 billion USD, clothing exports worth about \$158 billion USD each year. Although production activities are generally located in the developing countries, design and marketing centers take place in the headquarters of brands, mostly within the US or EU countries (Niinimäki et al., 2020, pp. 190-191). While fashion brands source from nearby regions thanks to their relatively better production standards, offshore supplying is preferred mostly because of its cost advantage. Challenging monitoring production process to ensure the quality of apparels and high transportation costs are significant factors affecting contractor selection of the brands (Arrigo, 2020, pp. 5-6). In addition to these factors, relocation of supply chain operations to different countries leads to an increase in complexity and decrease in transparency through the overall production processes. Frequently, it is hard to exactly know where raw materials have been sourced from. Turker and Altuntas (2014, p. 847) found in their research that to improve transparency in supply chain operations, fashion companies started to share their suppliers' names. To ensure vertical integration based on the collaboration among all parties, digitalized technologies have been driven in the sector (Bhardwaj and Fairhurst, 2010, p. 170). On the other hand, it is hard for the companies to monitor all the supply chain structures of their contractors, which is quite risky both for the financial situation and brand image. That's why supplier communication is critical to have long-term strategic partnership based on trust.

2.1.2. Environmental Impact

The current fashion industry is built upon accelerating manufacturing, everincreasing consumption rates, low-quality and short-lived garments, leading to more and more waste and considerable impact on environment. Annual apparel consumption has increased to 62 million tons globally and is estimated to hit 102 million tons by 2030. Consequently, the number of clothing manufactured has almost doubled compared with the pre-fast-fashion period (before 2000s). Given the accelerating volumes of garments produced and wasted, the sector is currently responsible for 8-10% of global carbon dioxide emissions which correspond to approximately 5 billion tons annually. It also consumes 79 trillion liters of water per year, causing nearly 35% of micro plastic pollution in the marine environment (Eder-Hansen et al., 2017, pp. 4-42). It would not be wrong to argue that today's fashion industry is a large contributor to the global climate crisis according to these numbers.

The fashion industry currently uses three percent of total irrigation water, and 95% of this water is reserved for cotton cultivation only. The other most waterintensive processes in manufacturing are bleaching, dyeing, and finishing. The sector is responsible for seven percent loss in ground and drinking water on earth. Drought in the Aral Sea is one of the most remarkable examples, it is forecasted that cotton consumption in the EU area has caused twenty percent loss of water. Furthermore, more than 15.000 various chemicals used in manufacturing processes of the industry produce wastewater. In Cambodia, more than half of water pollution has been caused by the fashion sector which comprises nearly ninety of overall production of the country (Niinimäki et al., 2020, pp. 191-193). These cases support the finding of Peters, Li, and Lenzen (2021, p. 8) that most of the environmental impacts are observed in the manufacturing countries rather than consumer ones. Another important textile production center Xintang, from the south part of China, produces 300 million pieces of denim annually, which correspond to one third of the global denim manufacturing. The river in the east of the city where is known as "the denim capital of the world" has transformed into a dirty blue color with malodor because of dyeing and bleaching operations of the denim mills. The air of the city also smells of potassium permanganate, a harmful chemical solution used in denim treatments. The river is a drinking source for millions of people living in this area, and they face major skin and lung problems (Radhakrishnan, 2017, p. 91). Wet treatments including dyeing and finishing processes are significant sources of toxic pollution which can cause health problems.

Transportation of products all over the globe is a significant contributor to CO2 emission. Even though container ships are generally preferred for clothing transportation, demand for air freight has been increasing to quickly deliver the products due to the complex supply chains and short lead times. While cotton can be cultivated in Uzbekistan, it can be knitted into a fabric in India, then can be finished as a garment in Turkey and sent to the brand store in the US (Portway, 2019, p. 52). However, using air freight in only one percent of current clothing transportation instead of container boats means 35% increase in carbon emissions (Turker and

Altuntas, 2014, p. 839). Increased distances and time pressure dictated by the fast fashion industry causes this environmental pressure.

According to Waste and Resources Action Programme (WRAP) (2017, pp. 14-16), cotton cultivation is responsible for almost 70 percent of the water footprint of clothing's fiber manufacturing. It also leads to water stress by polluting freshwater due to leaching of fertilizers and pesticides. For this reason, the worlds' major cotton producing countries suffer from water stress such as China, India, Pakistan, and Uzbekistan. In addition to cotton, other cellulose-based fibers like lyocell and viscose consume large quantities of water and chemicals. These fibers are suitable for mechanical recycling thanks to their biodegradable and renewable nature. Animal fibers like wool and plant are also similar for using large amounts of land and water during the production phase. Though, these fibers have a lower footprint during use thanks to their strong and durable structures.

In the last few decades, synthetic fibers, especially polyester have gained domination over the market share of cotton with the rise of fast fashion thanks to its lower costs (Lehmann et al., 2018, pp. 36-37). While in 1975 these fibers accounted for only 30% of global fibre manufacturing, the ratio increased to 68% in 2019. In terms of agricultural land and water usage, synthetics such as polyester, nylon, and acrylic are quite advantageous than the natural ones. However, production of these fibers is the main reason that makes the fashion industry dependent on petroleum since all are made from fossil fuels. It does not only cause air and water pollution but also poses a health risk for living beings. A polyester garment can survive in landfill for about 200 years by leaking its microfibers into nature. Changing Markets Foundation (2021, pp. 8-12) predicts that half a million tons of microfibers from our garments leach into the ocean per year. Also, during the wash and use stages, micro plastics are within the synthetics release hazardous chemicals and affect the health of human beings and even unborn babies.

The unsustainable character of fast fashion has caused a system to operate in a linear way. While the culture of manufacturing high-quality clothing that was built to last began to transform, it has also encouraged disposability (Caro and Martínezde-Albéniz, 2015). Clothes are being manufactured not to last as long as possible but to be destroyed after 10 washes on average. This situation becomes a new standard in the fast fashion (Piippo, Niinimäki and Aakko, 2022, p. 2). The garments which are manufactured from non-renewable materials have been mostly sent to the landfill.

Textile waste has increased substantially in recent years due to the striking increase in fast fashion consumption and disposal volumes. In 2015, 73% of fibers manufactured globally ended up in a landfill instead of recycling or utilizing them for different purposes. In the same year, merely 15% of total post-consumer garment waste was separated; as less than one percent was recycled into similar products, most of them were recycled into lower-quality materials and some were misplaced during the processes. Textile recycling rates differ considerably among countries, such as 75% in Germany and 11% in Italy. And some countries still don't have any textile waste management systems. The solution of developed countries to this problem was exporting their waste to poorer countries. However, this method became unsustainable with the large amounts of waste garments and many low- and middle-income countries prohibited or limited their import (Niinimäki et al., 2020, pp. 194-195). It would be not wrong to argue that the environmental impact of textile waste is not equal for the manufacturer and consumer countries.

It is critical that all stakeholders in the fashion industry take responsibility for its environmental impacts of their activities, including waste management, carbon emission, water, and energy consumption. Although investing in cleaner technologies appears to increase manufacturing costs in the short term, it contributes to cost saving by reducing the number of hazardous chemicals and then improving overall process efficiency. Ultimately, reaching a more stable business model is based on avoiding fast-fashion practices primarily excess of production and consumption, hereby minimizing waste. Since the present fast fashion model does not take into consideration finite resources by pursuing unlimited economic growth. The industry recently has become aware that alternatives for this model through highlighting quality and durability of the garments instead of lower costs and shorter lead times are needed. Adoption of a completely new approach by both consumers and brands is required for a shift in the business model.

2.2. Circular Fashion Business Model

Revolutionary change is necessary in the fashion industry to reduce environmental and social degradation it has caused. 38% of the Pulse of the Fashion Industry Report questionnaire participants stated that they have stopped shopping from their favorite brands due to the irresponsible practices and reported that attitude of the brands will have a critical impact on their future purchase decisions. This research is an important indicator of the shift in the minds of consumers to the sector (Lehmann

et al., 2019, p. 11). Sustainability as a term originates from a French word "soutenir" which means supporting indeed. Then, the word began to be used in the scope of ecology, about relationships with the environment (Pereira et al., 2021, p. 2). In the 1980s its meaning was extended by involving not only environment but also individuals, societies, and organizations and sustainability is defined as 'the capability of satisfying present needs without sacrificing the next generations' benefits (Franco, Hussain, and McColl, 2020, p. 55). According to Zhang, Zhang, and Zhou (2021, p. 4), sustainability can also be defined as a "social contract" between the communities and businesses because it represents their complex relationships. It would be beneficial to explore what sustainability means in the fashion industry and consumers' attitudes towards it before diving deeper into the concepts of "circular economy" and "circular fashion".

Sustainability is not yet the top-ranking criterion for customers while purchasing a product; it is perceived as prerequisite, not as factors such as quality and design during the decision-making process. Ki and Ha-Brookshire (2021, p. 15) found in their research that consumers are morally accountable for transition into a circular fashion as brands. Their liability stems from linear behaviors such as throwaway and overconsumption which have negative impacts on the globe. For this reason, social and environmental values of customers are reflected in the choice of engaging in circular fashion activities. In contrast, Vehmas et al. (2018, pp. 288-289) believes that decision making process of the consumers is not always in the same direction as their personal values and price is a more effective determinant than sustainability for purchasing decision. Additionally, customers, especially who live in the western countries are more concerned about their own fashion needs while they tend to ignore others'. The reason is their lack of information about the conditions of the developing world where most of the garment manufacturing facilities take place. They generally don't have sufficient information on how garments are manufactured and what the environmental and social impacts of this production are because of media's inadequate attention. Oliveira, Miranda, and Dias (2022, pp. 1-2) also state that even though the consumers claim that they would purchase from more sustainable fashion brands with higher prices, their purchasing behavior does not support this claim. It is found in the survey research that only four out of forty percent of the consumers who declare to prefer purchasing eco-friendly clothing do. This situation is called as "attitudebehavioral gap" which consumer prefer not to have an action if their intentions and attitudes conflict (Jung, Choi and Oh, 2020, p. 2). It can stem from personal characteristics and ethical behaviors of consumers. Ethically minded consumers tend to engage in circular consumption which is associated with the experiential wellbeing and happiness (Domingos, Vale and Faria, 2022, p. 2). Due to the gap between the consumer attitudes and behaviors, the adoption process of new fashion models is quite challenging. To make this transition easier and shoppers more aware about both the garment production and sustainable fashion, benefiting from the power of both mass and social media is critical.

In 2014, on the anniversary of the Rana Plaza disaster, consumers worldwide triggered an online movement by posting their garments labels on Instagram and tagging fashion brands with the hashtag "Who made my clothes?". This movement was called as "Fashion Revolution" because these brands replied to the consumers by posting their garment workers with the hashtag "I made your clothes" and enlightened them about the workplace conditions. Thus, a more transparent supply chain resulted in improvements in the workplace conditions of the manufacturing workers (Mizrachi and Tal, 2022, p. 23). Another consumer-led movement is "PayUp" campaign after fashion companies rejected to pay their supplier factories in the developing countries with the Covid-19 pandemic crisis. Since they cancelled previous orders due to the force majeure, almost USD 17 billion cancelled orders ended up with USD 6 billion unpaid garment workers' wages. In this period, only in Bangladesh 2.3 million fashion workers were fired from the factories. The campaign was launched with a petition which aimed to protect the rights of Bangladeshi workers on change.org in March 2020. To remove their names from the list, brands had to guarantee to pay their subcontractors for the cancelled orders. As a result of the campaign, not only "PayUp" hashtag has been used in almost 800.000 times in Instagram but also myriad of fashion brands including Levi's and Gap accepted their responsibilities even though some (Antropologie, Urban Outfitters) have been remaining silent. These examples of "hashtag activism" can be stated as responsibilities of consumer-citizenship in terms of improving the protection of workers' rights in the fashion industry (Khan and Richards, 2021, pp. 433-439). These movements indicate consumer responsibility and capacity for call the fashion brands to act to create completely ethical and transparent supply chain.

It can be reminded to consumers that they are powerful enough to be the part of a solution of a global issue by marketing and media professionals. It is necessary to

have a better understanding of the consumption cycle since most of the consumer research has concentrated on purchasing behavior. In terms of sustainable consumption, waste should be considered as a resource instead of something needed to be destroyed (Ekström and Salomonson, 2014, p. 385). As there are many strategies promoting throwaway culture, marketing and communication specialists can play an important role to make consumers adopt a sustainable fashion approach. Since the mainstream paradigm that consumption determines production has been challenging by the industry, it is understood that brands play a deterministic role on consumption patterns through the marketing tools (Velenturf and Purnell, 2021, pp. 1450-1451). Fashion brands have started to adopt environmental and social responsibility as a part of their core values and innovate their way of business to stay competitive. This innovation is based upon incorporating a quality-based business approach instead of a time-based one (Domingos, Vale and Faria, 2022, pp. 1-2). Offering a superior customer experience which is quite hard to copy by the competitor brands increases awareness about the closed loop applications and sustainable development (Ta, Aarikka-Stenroos and Litovuo, 2022, p. 2). To transform the current model that rejects a one-size-fits-all approach, adopting a responsible system involving fashion brands that deliver compelling customer value is inevitable.

Despite the environmental impact was not their priority for fast-fashion brands in the past, they have been lately focusing on green practices and trying to reduce carbon footprint in their supply chains with increase in consumer attention to sustainable products. Many companies started to follow "green fashion" model which is based on clean production of garments by using eco-friendly materials. To differentiate themselves from others and improve their image, brands have been obtaining green certificates (Yan, Han, and Lee, 2017, p. 3) or eco label certificates (Bielawska and Grębosz-Krawczyk, 2021, p. 240). Additionally, they have been joining sectorial organizations such as the Sustainable Apparel Coalition (Arrigo, 2020, p. 3). With the 2030 Agenda for Sustainable Development, launched in 2015 by the United Nations, more brands have been urged to offer green fashion products. These objectives involve transition from linear to circular economy which aims elimination of waste by keeping the resources in circulation. This model proposes certain solutions for the current unsustainable socio-economic and environmental practices. It is designed to regenerate itself, use renewable materials which are reused or reentered to the loop without minimum loss of value (Gazzola et al., 2020, pp. 5-6). Circular economy is the latest approach to integrate an economic model into environmental and social matters in a sustainable way (Milios, 2018, p. 862). To Vecchi (2020, p. 31), implementation of circular model is not only beneficial for environment, but it also enhances competitiveness and innovative solutions, contributes to economic well-being and employment opportunities. Thus, the circular economy approach focuses on resource management rather than only manufacturing process with the aim of creating long-term growth.

Ellen McArthur Foundation is the leading proponent of circular economy and has been publishing major reports within this area. The foundation identifies the business model as "systemic by design", "close-looped", and "restorative" (Norris, 2019, pp. 205-206). The main goal is preventing loss of material value and re-entry of these materials into the value chain. For the fashion industry, the model is based on extending the life cycle of products which are made of recycled or renewable raw materials. The products are made to be made again since any of them is separated as waste. Additionally, protecting the rights and wellbeing of all workers within the sector is given top priority. These are the only conditions for the industry to create sustainable growth and equitable distribution depending on the circular fashion principles (Ellen McArthur Foundation, 2020, p. 2). To realize these ambitions and transform the linear model, collaborative actions involving businesses, governments, consumers, and nongovernmental organizations are essential.

In recent years, governments and international organizations have been putting their efforts to accelerate the shift towards a circular fashion. The Fashion Pact, consisting of CEOs of the top global fashion companies, committed to work towards combatting global warming and marine pollution. McKinsey & Company, a global management consulting firm, started to publish the 'State of Fashion' reports annually to provide insights about the industry. The Global Fashion Agenda was launched to put fashion leaders and society into action towards more responsible manufacture and consumption practices. The Fashion Industry Charter for Climate Action was created in 2018 under the UN with the aim of calling the industry towards the action and reaching zero greenhouse emissions by 2050 (Palm, Cornell and Häyhä, 2021, p. 658). In terms of governmental actions, in 2019 unused garments were forbidden from destroying or landfilling by the brands to protect their images in France. According to the country's Circular Economy Roadmap which has been targeting to get rid of product waste, fashion companies must donate their excess inventory. Another

regulation in February 2021, in New York obliged businesses that generate more than ten percent textile waste to send them for recycling. In terms of the workers' rights in the fashion industry, a legislation which prevents fashion brands' exploitation including the payments below the threshold was passed in September 2021 in California. Another recent policy in Europe has had a discouraging impact on the fashion companies that are especially conducting online global trading activities. With this new regulation regarding all the goods imported to the EU area, Value Added Tax (VAT) exemptions were removed in July 2021. Under this law, all the products imported to the European countries are now subject to VAT and unfair taxation systems providing incentives to the global manufacturers have come to an end. With the end of the advantaged situation of non-EU producers, consumers will be more likely to prefer local businesses (Mizrachi and Tal, 2022, pp. 2-11). It is an important development for encouraging local manufacturing and decreasing environmental and social impacts of complex supply chain structures.

The COVID-19 pandemic has served as a catalyst for transformation in the fashion sector with its more emphasis on environmental and social sustainability under the "new normal" conditions". Since fashion brands canceled their pre-pandemic orders, textile factories were closed and millions of workers lost their jobs due to these conditions, consumers had to review their fashion purchasing and consumption habits. They have been able to explore more sustainable options such as sharing activities and could shift towards circular applications. Although the idea of sharing clothes dates to the pre-industrial revolution, especially among family and group members (Henninger et al., 2021, pp. 1-10), it has gained more importance with the emergence of circular fashion models.

From a circular perspective, all materials should be kept circulating in the loop of recycling, reusing, repairing, and remaking. Consumers are supported to keep garments in the loop instead of owning and throwing them away in the circular fashion to prolong the use of garments. "Collaborative consumption" (Zamani et al., 2017, p. 1368), "liquid consumption" (Norris, 2019, p. 207), "commercial sharing", "access-based consumption" (Sandin and Peters, 2018, p. 354) or "product-service system" (Armstrong et al., 2015, pp. 30-31) practices such as renting, swapping, and second-hand purchasing should become widespread according to circular fashion model to prevent overconsumption. Though this consumption style has not been very common within the industry, the number of brands offering different applications started to

expand. They are accountable to adopt circular fashion activities and intermediate between manufacturers and consumers as "ecological gatekeepers" (Rotimi, Topple, and, Hopkins, 2021, p. 2). Surely, responsibility is not limited to the brands; consumer behavior is crucial for interiorizing the closed-looped fashion model because they decide if an old garment will be landfilled or turned into a new one. Consumers make purchasing decisions among the brands according to their sustainable practices, so fashion professionals can view consumers as the only responsible agents for the future of industry. While they can be asked to make sustainable choices and purchase less clothes, it is hard to ask fashion companies to offer less products to their customers (Moorhouse, 2020, p. 19). However instead of only brands or customers, collective responsibility of all stakeholders is needed for the sector to be regulated. Collective effort and responsibility of all stakeholders is required for transiting to circular fashion model.

2.2.1. Recycling

Recycling is a process of decomposing textile waste into its raw materials and reconstituting a new product or material. Sandvik and Stubbs (2019, p. 371) state that if the current amount of textile waste is recovered instead of being landfilled or incinerated, it would contribute € 4 billion to the world economy by 2030. Chemical recycling protects fibers while mechanical recycling lowers quality of textile waste during the process by turning them into shorter fibers. These materials are used in the lower valued products such as filling materials and blankets; this operation is called "downcycling" (Niinimäki et al., 2020 p. 197). Most commonly, recycling of textile products is carried out through downcycling (Sandin and Peters, 2018, p. 355). When the dominance of lower-quality products is considered, there is a potential in the fashion industry to improve new recycling technologies for manufacturing more value-added products.

Establishing waste management systems for textile waste including both post-consumer waste which is used garments of customers and pre-consumer waste which is the materials not appropriate for sale is key for enabling recycling. The reconstruction process requires eliminating obsolete materials or adding new ones to the original apparel to acquire the higher quality product (Bigliardi et al., 2020, p. 2). Fiber recycling is not an easy task since currently most of the fabrics are made of a variety of textile fibers. They need to be separated, which is very challenging with the lack of up-scaled efficiency in today's recycling technologies (Franco, 2017, p. 835).

Brands prefer using blended fibers to improve performance of fabrics, such as including two percent elastane in cotton denim to increase its flexibility. The other reason is associated with the prices of fabrics; a polyester-cotton blended t-shirt is usually cheaper than a 100% cotton one.

Removal of chemicals and accessories such as buttons, labels, and zippers is needed before the recycling process. Separation of the trims is another complex since this practice is currently done manually by companies. As the companies employ subcontractors and even these subcontractors work with their own subcontractors, it is hard to be sure of the impeccable implementation of the manual system (Radhakrishnan, 2017, pp. 97-114). All agents of the multi-layered supply chain are required to cooperate around the circular principles. The design department forms one of the most significant parts of this chain, because usage of mono or blended materials and type of textile accessories is determined during this phase. Sandvik and Stubbs (2019, p. 372-375) state that at least 80% of the economic and environmental cost of the products is designated by their designers. "Cradle to cradle approach" which suggests that the lifespan of materials must be focused on instead of just protecting natural resources agrees this claim and supports that recycling should already be taken into consideration in design process (Aakko and Koskennurmi-Sivonen, 2013, p. 15). It is a challenging process for designers to integrate powerful design and optimal recycling process. Their decisions affect all the subsequent factors about the products including its overall performance and decision of raw materials (Koszewska, 2018, p. 342). Niinimäki (2020, p. 197) defines this logic as proactive because waste can be prevented or minimized during the design phase. However, product disposal is the reactive way which is classified as the least sustainable option. It is always preferred to interfere with the system before the surplus clothing is not produced.

Recycled garments may be perceived as unhygienic (Wagner and Heinzel, 2020, pp. 3-4) or low-qualified (Harmsen, Scheffer and Bos, 2021, p. 14) by the consumers. There are various factors affecting the consumer attitude and purchasing decision towards these products including media coverage and influential trends. Communicating advantages of recycling and its positive impact on environment could contribute to the consumer perception. Levi Strauss & Co and Evrnu collaborated to design the world's first recycled cotton jean in 2016. 98% less water was consumed during manufacturing by using post-consumer waste instead of virgin cotton. Another global denim brand G-Star Raw launched the world's first jeans collection made from

recycled ocean plastic in 2014. This project was called "G Star Raw for the Oceans" and accomplished in partnership with the sustainable textile company Bionic Yarn in which Pharrell Williams, an American celebrity, has been working as a creative director (Moorhouse and Moorhouse, 2017, p. 1952). Emotional value that people feel when they purchase or experience a product is significant for the brand image. From this viewpoint, Kim, Hye, and Lee (2021, p. 5) classify having more eco-friendly choices as "hedonic consumption" that makes consumers feel valued. Bielawska and Grębosz-Krawczyk (2021, p. 249) also state that there is a positive correlation between emotional value and buying intention of sustainable fashion pieces. It will be more meaningful for consumers to purchase from the brands that address the most critical global issues and strive to be the part of change.

Mostly, consumers are aware that clothes in good condition should be sent to the vintage stores or donated to the non-profit organizations to be revalued again. Nevertheless, it may be harder to notice the value of worn-out garments for the recycling sector. So, many consumers can destroy or throw away their old garments and these fibers go down the drain rather than being utilized in manufacturing other garments. The decision to demolish or give their clothes to be recycled belongs to customers (Weber, Lynes, and Young, 2016, p. 208). For this reason, collecting their used garments from customers is key for enabling post-consumer waste recycling. Consumer involvement and return of the old garments to the stores can be encouraged by some incentives such as discount vouchers or freebies. H&M offers 10 percent discount to its customers who donate their unwanted clothes, and they don't have to be purchased from H&M stores. The brand also gives another 10% discount coupon for giving their cosmetic packages back. Madewell introduced its "Blue Jeans Go Green" recycling program in 2014. The company started to give USD 20 off for a new product purchase if consumers return their old jeans. However, the aim of the brand was not manufacturing recycled jeans with these post-consumer waste but turning them into insulation for people in need of a home (Radhakrishnan, 2017, pp. 97-103). These collaborations between brands and consumers to collect old garments for the reason of recycling would contribute to creation of circular fashion model and new business opportunities. However, Rotimi, Topple, and Hopkins (2021, p. 14) argue that the ultimate aim of the brands to offer discount vouchers is encouraging more consumption and boosting sales rather than reducing the amount of post-consumer waste. Because consumers will purchase new products from these brands by using

these coupons, resulting in new textile waste at the end of their life cycles. Additionally, if there is a mismatch between statements and behaviors of a brand, consumers consider it hypocrisy. Even though H&M claims to believe in circularity and promotes recycling campaigns, consumers may perceive its statements discrepant from the activities. Since it is known as a retailer brand which destroys millions' worth of unwanted stock every year (Ki, Park, and Ha-Brookshire, 2020, p. 1123). A different case is encouraging activities of the global brands Marks & Spencer and Nike to make their subcontractors invest in circular applications. However, these activities have not involved any financial support nor any improvement in garment prices paid to the suppliers (Jensen and Whitfield, 2022, pp. 5-6). Even though the brands desire to indicate that their aim is to upgrade environmental and supply chain standards, they don't pay attention to suppliers' conditions.

According to the research findings of Zhang, Zhang, and Zhou (2021, p. 18), since consumers are over-confident about the background information of these retailers' sustainable efforts, they may be vulnerable to be easily convinced by untruthful campaigns. As a result of analyzing 50 major fashion companies, it was revealed that almost 60% of their claims about sustainability conflict with their actions. They misguide consumers by claiming their garments are recyclable even though recycling is not possible or giving missing information about the contents used in their garments (Mizrachi and Tal, 2022, p. 14). These situations create uncertainty in the minds of consumers and prevent to feel themselves secure about these brands. Thus, it would not be wrong to argue that informed consumers are vital for improvement (Pereira et al., 2021, pp. 9-27). It is noteworthy for the consumers to be conscious to not be deceived by greenwashing when the brands promote its circular fashion activities as their differentiation points.

2.2.2. Reusing

The reuse of garments has considerable environmental advantages compared to new clothing manufacturing; while reusing fashion products requires 24% less raw material consumption, it also produces 16% less greenhouse gasses in the supply chain (Manshoven et al., 2019, p. 40). This positive impact can be provided by constructing a mechanism that collects used clothes from consumers and returns them to the consumption circle. In this system, collection mechanism can be a governmental agency, non-profit organization, private company, or individual. Next step after collection is sorting that used garments are separated according to their materials. Then

categorized products are reprocessed such as repairing and washing. Finally, renewed garments can be resold to consumers to be worn again or to other organizations to utilize in other ways (Hedegård, Gustafsson, and Paras, 2020, pp. 315-316).

In the past, used garments were mostly collected to donate to nonprofit organizations. Because fashion waste has not been usually regarded as harmful as electronic devices or batteries by the governmental agencies. They overlooked the hazardous chemicals used in garment manufacturing and how they can be dangerous for the environment and living beings. That's why, many municipalities transferred its collection to charities (Weber, Lynes and Young, 2016, p. 208). However, take-back programs have been implemented by the retailer brands lately by offering some incentives to the consumers to encourage the return of the used clothes. These garments can be reused through collaborative-consumption practices such as renting, trading, or second-hand shopping in addition to recycling options. Reuse extends the life span of a clothing by repairing and renewing, at the same time protecting its materials' main characteristics. Reused garments are transferred to new users with little modifications which require lower energy compared to recycling. The goal is decreasing the level of consumption by switching out new garments to the used ones. Most commonly, fashion products are not used until the end of their life. Decreasing interest and emotional attributes to clothes, especially due to shifting fashion trends, is an important reason for destroying them before losing their functions (Keßler, Matlin, and Kümmerer, 2021, p. 6). Since using low-quality materials in fast fashion manufacturing is negatively affecting product performance, utilizing durable materials is required to reuse the garments for a long time.

2.2.2.1.Second-hand Clothing

Second-hand clothing, which highlights individuality rather than following mainstream trends is the opposite concept of fast fashion. It is called "vintage clothing" in the fashion industry since unique nostalgic pieces are also offered to the consumers (Ferraro, Sands, and Brace-Govan, 2016, p. 264). Second-hand clothes have been recently preferred by consumers against the imposition of standardized fashion products because these garments bring plenty of experience from their pre-owners. Consumers selling and purchasing used garments can be defined as "prosumers" (both producer and consumer) who apply measures to increase longevity of garments (Yrjölä, Hokkanen, and Saarijärvi, 2021, pp. 765-766; Korsunova, Horn, and Vainio,

2021, p. 761). These consumers support brands by taking place in their innovation cycles.

Affordable prices of second-hand garments allow consumers who cannot afford the new ones with higher costs to purchase their used versions. In addition, many consumers prefer purchasing used clothes due to their environmental concerns (Moorhouse, 2020, pp. 17-18). Because second-hand clothing provides environmental advantages by saving resources, water, and landfill areas necessary for manufacturing. To Hur (2020, p. 1), purchasing hundreds of second-hand garments means reducing purchasing between sixty and eighty-five new pieces approximately. Consumers can reflect their concerns about the waste culture on their consumption habits and this behavior is called as "eco-movement" by Ferraro, Sands, and Brace-Govan (2016, p. 263). They shop from vintage stores against fast fashion brands which are established on the base of wasteful overconsumption.

According to the behavioral studies on consumers in various countries, shopping from the second-hand stores means lower social status especially due to the concerns of being worn and unhygienic. However, the growing interest of influencers and famous people is an important factor for affecting consumer mindset positively on the second-hand clothes. The role of media channels in the shift of consumer habits cannot be deniable since many global fashion magazines, mainly Elle, Bazaar, Harper's include sophisticated vintage garments in their fashion outfits and highlight their clean and good conditions. Sharing photos of celebrities with these pieces is also another strategy for presenting them as if they were new garments. Some vintage shops prefer to use the adjectives of "almost new" or "preloved fashion" for the same goal (Valor, Ronda, and April, 2022, pp. 78-83). In addition, many consumers find these stores distinct from conventional retailers since they feel themselves as a part of a community based on their unique store experience and social interactions between other shoppers and owners. The Tales of Things and Electronic Memory Project of The Oxfam Curiosity Shop in London allowed their consumers to discover life stories of the products' pre-owners (Ferraro, Sands and Brace-Govan, 2016, p. 267). That's why, for consumers purchasing from the Curiosity Shop means finding the saved stories behind these items. According to Kim, Woo, and Ramkumar (2021, p. 3), these consumers feel a deeper experience towards the second-hand retailer brands because incorporating storytelling in their product's appeals emotions of the customers. Storytelling based on the narrative competence theory is a powerful technique for brand marketers to transfer their messages and emotions to the consumers. Learning about the history of clothing and its previous user through a narrative increase consumers' trust by reducing uncertainty.

Steffen (2017, pp. 193-203) associates second-hand purchasing with fun and treasure hunting by looking for the pieces which are not commonly available in the market. It is an important hedonic motivation to make consumers prefer used clothes. Given those second-hand consumers predominantly purchase from brick-and-mortar stores to be sure that garment is in a good condition and feel the nostalgic atmosphere. The other reason that these consumers prefer physical stores is the existence of secondhand apparel in limited numbers and variations in online channels (Hur, 2020, p. 11). However, online platforms have also became popular for used apparels especially in the last years with the changing consumer habits. This trend can be observed by the 69 percent growth in online second-hand channels during the COVID-19 pandemic period while growth in brick-and-mortar shops is only 2 percent by 2021 (Kim, Woo and Ramkumar, 2021, p. 2). Research findings of Guiot and Roux (2010, p. 396) have revealed that some consumers collect information about the clothes from conventional retailers however purchase from vintage stores. Motivations behind this behavior include financial and environmental reasons, and rejection of standardized fast fashion products.

Interest in second-hand clothing would be fueled by the brands throughout the multiple touch points. For the other retailer brands, they can contribute to an increase in consumption rates of used garments by adopting elements of second-hand business. Patagonia is one of the brands which establishes an online platform to allow its customers to sell their worn Patagonia clothes in collaboration with eBay. Urban Outfitters is another retailer that has been giving place its second-hand products in the stores (Yrjölä, Hokkanen and Saarijärvi, 2021, p. 781). Establishing new marketplaces and bringing together used garments with consumers in addition to virgin ones help these brands to improve their image and indicate their efforts towards circularity. These improvements would contribute to reducing the sharp distinction between second-hand and new garments in the consumer mindsets.

2.2.2.2.Renting and Swapping

Renting can be described as an action in which an object is given to another party for a limited period and in return for a fixed amount of money. In this transaction process, the use of items is highlighted since the ownership does not change. Renting

has existed for ages, for special occasions or designer clothes. In recent years, more brands have started to rent their garments by maintaining their ownership of them with the extension of business model. Thus, fashion consumers are satisfied with using more clothes without the responsibility of ownership (Lang and Armstrong, 2018, pp. 38-39). According to Jain et al. (2022, pp. 1525-1527), the online fashion rental market grows 10.76% annually and it is forecasted to reach USD 2 billion nearly by 2023. Enabling access to luxury brands at reasonable prices and encouraging sustainable consumption by extending the life cycle of the garments are among the key reasons behind this growth. It is also seen as an efficient way of reducing over-consumption in the fashion industry.

"Frugality" is a term about preventing waste of money and other resources. Frugal consumers tend to prefer renting because of its economic advantage compared to purchasing new clothes and contribution to sustainable fashion. Fashion-conscious consumers benefit from the renting platforms which have various business models, mainly short-term and subscription-based renting. For instance, while Albright provides high-end garments to its customers as a physical fashion library, Rent the Runway operates as an online platform that offers luxurious clothes and accessories (Lang, 2018, pp. 5-7). Rent the Runway has integrated machine learning to have detailed information about purchasing preferences of their consumers. It is critical for these platforms to deliver overall unique shopping experience to their consumers who are concerned about sustainability and fashion (Lee and Huang, 2020, pp. 12-13). In contrast with the peer-to-peer, these platforms follow business-to-consumer fashion rental model and need to develop 360-degree communication strategy with the aim of establishing long-term relationships with all stakeholders (Arrigo, 2022, p. 5). Especially, utilizing integrated marketing communications mainly social media tools is substantial to raise awareness about product shared systems by creating electronic word-of-mouth.

Renting is perceived as a psychological experience by consumers since it means more than merely buying a product. Enjoyment plays a significant role in terms of motivating them to be part of this experience. Letting consumers reach a variety of garments is another advantage of this amusing access-based activity (Lang, Seo and Liu, 2019, p. 522). They focus on not only the results of which the garments are rented but also the playable process itself. This is because consumers find the activity very similar to treasure-hunting, which offers very valuable products at the lower costs

(Baek and Oh, 2021, p. 171). That's why it is beneficial for companies to follow the "taste consumption" tactic which focuses on the highest value of products at the best rates available. This approach is particularly meaningful for customer segments who glorify experience rather than ownership (Lee, Jung and Lee, 2021, p. 16). Rental companies can communicate with these consumers by highlighting hedonic feelings of the renting experience.

Swapping as different from renting is transferring the ownership of a product to another party permanently. In addition to just swapping products among the family and relatives, there are increasing number of brands organizing events to let consumers exchange their unwanted garments with each other. These social events reflect a way of life where like-minded people come together to exchange not only their underused garments but also opinions (Lang and Armstrong, 2018, p. 39). Even the sense of community is created since transferring the ownership of garments which are the private belonging to other parties makes them establish a close tie among them. In addition to the friendship-building feature, these events contribute to the creativity skills and personal growth of participants. Participants find an opportunity to have a try and combine completely new pieces that they had never bought before. Moreover, the life span of the clothes extend otherwise they stay in closets unused by their preowners (Karpova et al., 2022, pp. 4-7). Thus, consumers feel accomplished when their underutilized apparels find a new life with someone else (Lang and Zhang, 2019, pp. 158-159). Under favor of these characteristics, swapping is perceived as a fun activity for consumers like renting.

Another feature of swapping, which is its usage as a tool of anti-globalization movement by some communities is pointed out. For instance, during the economic crisis in Argentina in the beginning of 21st century, people preferred swapping instead of purchasing new garments to tackle the crisis conditions and then they integrated this activity in their lives not only as an economic but also a cultural practice (Camacho-Otero, Pettersen and Boks, 2019, pp. 280-281). Thanks to swapping, consumers who are not able to purchase various fashion garments due to the economic conditions can have new pieces in their wardrobes. Given the quickly changing trends, it provides many clothing alternatives to consumers without driving overconsumption in the fashion industry (Lang and Zhang, 2019, p. 157). Preventing waste of money by providing free garments to consumers is called as practical (Karpova et al., 2022, p. 4) or economic advantage (Lang, 2018, p. 7) of swapping.

As participants are both suppliers and customers at once in swapping, this feature contributes to making them feel responsible for their fashion consumption choices. Participants are aware of their ownership of the products supplied in the swap event and consider their environmental and social impacts. However, in terms of consumer perspective, the ambiguous nature of this product-service system practice is the main problem according to the research findings of Henninger, Bürklin and Niinimäki (2019, pp. 339-340). Because quality, type, size of the garments supplied to the events cannot exactly be foreseen. The qualitative work of Karpova et al. (2022, p. 9) also supports this opinion and states that it may be quite challenging for consumers to match with a person with the same size and taste. That's why, preferring standard-size clothes or accessories including scarves and bags in these events is more advantageous for these consumers.

There is a common idea in society that only people with lower social status engage in second-hand shopping and swapping activities (Çakır and Dedeoğlu, 2020, p. 70). This situation causes a social risk that they are concerned about how others view their purchasing behaviors and whether participating in these events are negatively evaluated. Consumers who are afraid of facing a loss in their social image refrain from participating in these activities (Lang, Seo and Liu, 2019, pp. 523-531). This behavior is about "social desirability" which is used as a term for an act of individuals in a socially desirable way. "Social desirability bias" is defined as the tendency of people to indicate society-oriented behaviors rather than acting according to their own intention (Chung and Monroe, 2003, pp. 291-296). Since the specified circular fashion business model applications can be associated with the lower socioeconomic status for individuals, they are inclined to underestimate their engagement in these activities. Another risk correlated with renting and swapping is quality concern if the performance of a garment satisfies expectations of the consumers. Additionally, since most of the times people swap their used clothes and rent the same item to different consumers, hygiene is an important issue affecting consumers' behavior toward these activities. The research of Lang and Zhang (2019, p. 158) affirms that sanitation is a significant factor as consumers need to be sure that the garments are cleaned well by their pre-owners. Especially, the outbreak of the COVID19 pandemic has raised hygiene-related concerns of the consumers about all shared consumption applications (Baek and Oh, 2021, p. 165). It is hard to experience the enjoyment feeling of these events for the participants who hesitate to prefer renting and swapping due to the contagion reasons. Providing more detailed information about the garments' care and cleaning instructions by the organizers can be beneficial for decreasing concerns of the participants.

2.2.3. Upcycling

Upcycling has indeed been a longstanding human activity while products are used until the end of their life spans. Then with the rise of consumerism and throwaway culture, production trends become reversed (Singh et al., 2019, p. 1). Upcycling term is defined as a process where product materials are transformed into a completely new item with equal or higher quality. Upcycle is a word evolved from "upgrade" and "recycle" since it re-creates valuable pieces from product waste instead of just recycling them. Natural resources consumed at an ever-increasing rate and growing quantities of waste are the main motivations behind the revival of this trend again. It has recently been distinguished by the fashion industry and fashion-conscious consumers because of its ability to produce and consume in a sustainable way. Upcycled garments with high commercial value are becoming widespread globally especially with the rise of circular fashion idea (Yoo, Jung and Oh, 2021, pp. 2-3). Designers utilize waste which would be thrown away or incinerated and create mostly one-of-a-kind fashion apparels. Then, valuable, and innovative garments are produced by using fashion waste as raw materials by the individual designers and companies which aim to meet their consumers' desires (Koca and Koç, 2020, pp. 892-896). With the increasing attention to the upcycling trend, some of the best-known brands started to produce their own fashion collections. Adidas launched its limited-edition sneakers in line with the brand's green marketing strategy in 2017 (Yu and Lee, 2019, p. 3). Some of the other world's largest apparel retailers and designer brands have been working on their collaborative collections. In 2021, iconic denim brand Levi's and luxury brand Miu Miu together launched their upcycled collection to contribute sustainable fashion. The number of these brands utilizing upcycling applications to gain a greener image has been increasing.

The extent of the upcycling process can alter according to the various factors, primarily desires of customers, cost-related issues, and limitations with the apparels. For example, a simple decorative patch can be added to renew a cloth, or an utterly different product could be recreated such as an upcycled jacket from jean pant production leftovers. That's why, myriad of product types can be formed depending upon the expertise of the design and production teams. Even though availability of low

cost, various forms of raw materials is the main advantage, its time-consuming and labor-intensive nature becomes an important drawback (Janigo, Wu and DeLong, 2017, pp. 257-276). As producing an upcycled item individually is quite a time-consuming activity, its price tag is generally higher than ordinary products. This situation can have a negative impact on consumer attitude in addition to their low availability rates in the market. Suspicion of consumers through the garments obtained from used materials due to the quality and hygiene reasons can be another barrier.

It is challenging for the upcycling brands to forecast the exact number of materials with similar quality. It cannot be possible to supply a flow of used garments which can be utilized again at any time. (Singh et al., 2019, pp. 3-12). In addition, lack of systematic reporting for textile waste and second-quality garments is another important barrier for upcycling. This information is not generally available to design teams, this situation makes producing these clothes in large quantities a challenging task. For the successful application, collaboration of the textile waste material-based design with the manufacture process is essential (Aus et al., 2021, pp. 4-16). Textile waste is utilized by spending fewer natural resources with upcycling compared to recycling as they find a new life in other clothes without breaking down into its raw materials. That's why encouraging upcycling implications among the apparel companies will be vital in terms of becoming circular fashion more prevalent.

Upcycling depends on availability and systematic use of waste materials; a multi-tiered process is needed to achieve it on a large scale. It begins with a complex design which requires classifying and suiting all the leftover materials available for production. Designers should also have extensive knowledge of manufacturing process and system thinking skills. (Aus et al., 2021, pp. 3-4). With the convenient process and capabilities of the designer, every single piece can be turned into a valuable fashion product. This method is distinctive thanks to its ability to combine both pre- and post-consumer fashion waste and put a new complexion on designers and companies to be more flexible when they give new life to leftovers. The reason why this trend is called "the transhionable fashion movement" recently is about its transition role between past and present. As upcycling does not use any chemical process and transforms leftover by preserving its value of original materials, new value-added fashion pieces still have traces from the past (Koca and Koç, 2020, pp. 892-909). These emotional benefits of upcycling could be an important driver for consumers to shift from their previous shopping habits. Yu and Lee (2019, pp. 4-15)

also agree that the old stories behind these products can trigger emotions and they influence buying decision of consumers. To communicate with the consumers with storytelling method by telling engaging stories about the reused garments in the final product would be an effective way for the marketers. Moreover, "green value" is highlighted as the other aspect which has a great impact on shopping decision towards upcycled clothing. It is described as consumers' satisfaction level of upcycled garments' environmental performance. Fashion companies that utilize used garments and leftovers instead of using virgin raw materials in their production and also avoid greenwashing activities would create greater emotional and green value for the consumers.

Increasing awareness of consumers about reusing each piece of clothing and positive change in their attitudes is critical for transformation towards circularity by minimizing fashion waste and creating alternative raw material in the industry. To go towards a more circular fashion, it is also critical to raise awareness about upcycling implementations among the sector in addition to consumers by embracing the significance of waste and its usage as a key resource. Collective effort of stakeholders including fashion brands, government bodies, conscious consumers, related NGOs, and academics is required for awareness raising. Positive consumer attitude towards upcycled garments would provide not only environmental but also social advantages; it can create jobs in design and manufacturing areas (Singh et al., 2019, p. 13). Sung, Cooper and Kettley (2019, p. 19) state that benefiting from marketing communications tools and organizing community events would have a positive impact on behaviors of consumers. In addition to inspiring activities of fashion companies, states and other institutions can encourage upcycling clothing brands and designers with tax-incentive policies, giving financial and moral support to these projects. Collaborative efforts of all agents are essential for scaling up upcycling activities.

CHAPTER 3: METHODOLOGY

3.1. Introduction

This study has two-stage design in which semantic network analysis and semi-structured interviews were conducted respectively. In the first step, semantic network analysis was used to analyze the Instagram posts about circular fashion of 6 global companies (Zara, H&M, C&A, Levi's, G-Star Raw and Patagonia) in 2022. Theoretical framework of the method realized for the study is presented in this section. Content analysis method is used to analyze the semantic social network in the research. That's why content analysis and semantic network analysis are described. Also, the Pajek program used for the analysis and visualization of the Instagram posts network is explained. In the second part of the study, data extracted from the network analysis was included in the questions of semi-structured interviews. Design of these interviews, sample selection and the study process are also identified. All the stages of the research to answer the research questions are described in this chapter.

3.2. Application and Structure of the Semantic Network Analysis

3.2.1. Content Analysis

Content analysis is described as a research methodology which analyses the content of communication messages in social sciences. It focuses on extracting the concepts in the network and understanding the relationships between them. According to this research tool, a single message is meaningful only as a part of set of symbols in other words in the context of its use. The reason behind this understanding is the ability of the communication agents to interpret messages distinctly. That's why content analysis aims to make inference meanings of the messages related to the social context. (Atteveldt, 2008, pp. 3-16). Content analysis is a method preferred for the analysis of semantic networks frequently.

3.2.2. Semantic Network Analysis

Semantic network is formed depending on the content analysis of texts or responses of a network member. Semantic network analysis enables analyzing and visualizing the relationships between textual statements. It aims to discover how different structures such as individuals, corporations and cities in the network affect each other by investigating their relationships (Schnegg and Bernard, 1996, p. 7). Since the meaning of textual statements is extracted according to relationships, even though two of the texts can involve similar concepts, it is possible that their meanings are

distinct from each other (Doerfel, 1993, p. 17). This method determines the meanings of various written statements, images, video, and audio data. Examining statements in an interconnected network rather than alone provides analytical insights about the related context. In addition, graph drawing feature of the research method is advantageous in terms of offering visualization of complex networks (Drieger, 2013, pp. 4-5).

The semantic network analysis in the study was conducted via Pajek which is a software program that is implemented for analyzing and visualizing networks. For noncommercial purposes, it can be freely downloaded (Batagelj and Mrvar, 2004, pp. 77-103). Nevertheless, Pajek was developed more than twenty years ago, it has been developing constantly with new versions. Since it is able to extract huge data networks, the software is widely used by various global corporations and the top educational institutions (Mrvar and Batagelj, 2016, pp. 1-2).

A total of 167 Instagram posts belonging to 6 global fashion brands were selected for the research. The selection criterion of these posts is sharing messages about circular economy concept and applications in the fashion industry. Selecting the brands which have various perspectives and applications towards the circular fashion is also another consideration with the aim of evaluating different types of communication styles. Three brands, which are Zara, H&M and C&A are especially well-known for their fast-fashion applications even though they started recently to implement some collaborative consumption models. The other two, Levi's and G-star which had been also categorized as fast-fashion brands, became pioneers of circular fashion applications including recycling and upcycling among the denim brands. The last one is Patagonia; the brand is globally acknowledged as one of the leaders in the circular fashion.

The first fashion brand selected for the research study is Zara. Since the brand is widely accepted as the pioneer of fast fashion concept due to its business model known as Zara model. Since, this is based on working with their suppliers with very short lead times and paying low prices sometimes even below the cost of production (Crofton and Dopico, 2007, pp. 42-46). Due to this low-cost policy, the company selects its subcontractors from the developing world even though it opens the stores in the prime locations. The business strategy of the company is based on rapidly changing high-fashion collections. The brand image is projected on the idea of scarcity of the high-fashion products which are available in limited stocks. That's why the company

puts the pressure on consumers for purchasing the products immediately and encourages more and more consumption. In addition, the brand is positioned as lower priced compared with the competitors. Since high-quality materials are not preferred in the production, the garments are described to be worn 10 times on average (Ghemawat and Nueno, 2006, pp. 12-13). Despite these applications, with the rise of sustainability and circular economy models all over the world, the brand started to keep pace with evolving business trend and launched its "Join Life" collection under the eco-friendly collection. (Zhang, Zhang, and Zhou, 2021, pp. 2-3). Since it is a brand commonly accepted as the founder of the fast fashion model by the industry, it is a must in this research to examine its communication messages about circular fashion.

H&M which is the other fashion brand selected for the network analysis is wellknown with its unfair conditions for its suppliers, such as treating female garment workers unequally with men and burning its excess inventory (Radhakrishnan, 2017, pp. 97-103). In similar to retail model of Zara, the company focuses on the purchasing experience in physical stores and has a target of increasing number of the stores by ten to fifteen percent every year. Even though the company is widely known as one of the pioneers of fast fashion, it introduced the "Conscious Collection" and give-back campaigns in succeeding years. With this initiative, the company started to use organic and recycled fabrics in its production process. In 2011, H&M initiated an incentive program in terms of managing employee relationship and rebuilding brand image (Arrigo, 2018, pp. 128-130). Due to the fact that there is a growing consumer trend in fashion industry towards sustainability, these fast fashion brands tend to prefer ecofriendly materials and shape their marketing strategy accordingly. However, their brutal working environment, forced labor and unequal conditions between female and male workers in the subcontractors, unfair conditions for its suppliers and incineration of leftovers contradict with the marketing strategies. Consumers perceive their business model as completely opposite of circular fashion (Kim and Kyung, 2020, pp. 3-4). For this reason, it is critical to examine social media messages of H&M about sustainability and circular fashion as one of these fast fashion brands.

The other brand in the study is C&A in the same route with H&M who's its business strategy had been based on the fast fashion With the transition period of the brand, it started to share Instagram posts about its environmentally and socially conscious activities. Despite these commitments in social media, its suppliers'

working conditions including discrimination against women revealed (Portway, 2019, pp. 51-56). Its operations are mostly based on the culture of promoting consumerism and linear model of production. The company began to share its global sustainability reports since 2015 that is quite a late date compared with its competitors. It is remarkable that the retailer brand has been fostering its circular fashion activities regarding the cradle-to-cradle approach (Beyer and Arnold, 2022, pp. 30-33) and shaping its communication messages accordingly especially with its "Wear the Change" campaign (Mandaric, Hunjet and Vukovic, 2022, p. 10). In addition, participating at the Accord and the Alliance for Bangladesh Worker Safety is can be viewed as another step for reconstructing the brand image towards a more circular brand and glossing over the media coverage about its unfair working environment and labor practices (Yoon, Lee and Choo, 2020, p. 2). For this reason, C&A is using social media as a significant tool to get consumer attention for the sustainable strategies.

Levi's is accepted as the brand developing standard denim trousers in 1870. Thanks to its durable feature, denim was acknowledged as workwear. After the mid-1990s, denim began to being preferred as not only a workwear piece, but also a causal outfit (Brooks, 2015, p. 37). Previously preferred due to its high-quality and endurance features, the brand started to subcontract its operations to other countries including China and then lower its quality performance in the competitive global fashion environment of 1990s. However, this low-cost policy of the brand did not go on for ages because of the inferiority perception by consumers and brand revitalization strategy was adopted in 2010. Sustainability was embraced as the keystone of the rebranding strategy with this cultural shift in the corporation (Doyran, 2020, pp. 281-284). The company joined the Better Cotton Initiative (BCI) to support the sustainable applications in the cotton industry in 2010 and adopted "Water<Less" policy to use less water in its denim production in 2011. The other improvement was the launch of "Care Tag for Our Planet" platform aiming to raise awareness among consumers to reduce their impact on the planet (Jolue, 2011, pp. 17-20). The brand is also credited with its support to the Fashion Revolution for improving the protection of fashion workers' rights (Khan and Richards, 2021, pp. 433-439) and pioneering for circular fashion model applications such as upcycling projects. By reflecting all of these exercises in the social media, the brand aims to engage with the consumers and inform them about the brand identity. That's why examining the Instagram account of the iconic denim brand Levi's in the study is significant.

The other denim brand G-Star Raw is chosen for the research, since it has become prominent thanks to its collaborative consumption and recycling applications in the industry recently implemented such as "G Star Raw for the Oceans" (Moorhouse and Moorhouse, 2017, p. 1952). This project is based on the idea of cleaning the oceans and turning plastic collected into new denim products. The other designment is development of a cleaner dyeing technique enabling reuse of 98% of the water in the process. G-star has adopted a vision of creating sustainable life cycle of its garments (Brown, Bocken and Balkenende, 2018, pp. 183-184) especially after the Greenpeace report published in 2012 about the fashion brands which use toxic chemicals in their production. In this report, G-star was mentioned among the brands that commit zero discharge but don't apply their commitments. Due to pressure of non-governmental organization and negative media coverage, the company promised to eliminate these chemicals from the manufacturing process by the year of 2020 (Brennan and Merkl-Davies, 2014, p. 628). Especially with this period, the brand began to focus on its zero discharge commitment and sustainable supply chain operations in the social media The case is meaningful for enforcement of a non-governmental messages. organization on a fashion brand for transforming its applications by creating negative publicity.

Patagonia is the sixth fashion brand used in the research. The brand differentiates from the other ones as it is widely accepted as the leader and role model in the fashion industry for adopting circular economy as a main principle. Even, mission of the company is stated according to this basis which is about generating solutions for the environmental crisis while producing high-quality garments. In the same direction with its mission, core values of the brands are 'quality', 'integrity', 'environmentalism' and 'not bound by convention'. It is also critical to note that the company donates one percent of its annual sales to the organizations working with the aim of environmental protection and combat with climate crisis (Rattalino, 2018, p. 749). This behavior indicates that business objective of contributing to environmental sustainability rather than profit maximization. The company has wide range of circular fashion practices particularly online and brick and mortar secondhand stores and repairing services (Yrjölä, Hokkanen, and Saarijärvi, 2021, p. 781). Patagonia positions itself as a brand challenging the fast fashion. The brand has been communicating these applications with 'Worn Wear' message. "Don't buy this jacket" campaign also became influential to increase consumer loyalty by promoting purchase of high-quality, long-lasting garments and reuse them via repairing instead of buying new (Dezi et al., 2022, p. 8). Examining social media messages of the pioneer fashion brand in terms of accepting circularity as its main principle is vital for this study.

3.2.3. Data Collection and Coding Procedure Related to Semantic Network Analysis

Data collection and semantic network analysis was conducted between the dates of May 1st and June ^{1st}, 2023. In the first phase of the research, 6 global fashion brands which are Zara, H&M, C&A, Levi's, G-Star Raw and Patagonia were selected to examine their social media messages reflecting their circular economy approach. Instagram was preferred as a social media network for this aim since it is the most suitable channel to analyze both visual and written messages of these 6 brands. Instagram is significant as a social media channel in this research since fashion brands share posts on a regular basis and update their followers about their activities. It is a highly popular platform that provides insights about different circular economy applications for the fashion industry.

In the first step of the study, for data collection, official global Instagram accounts of the six companies were visited and their all posts about the circular economy concept in 2022 were listed. Even though Instagram is a visual based platform, it is proven that captions and hashtags belonging to the visuals represent their content (Czaplicki, et al., 2020, p.3). Each post on Instagram consists of two components. All the posts which are images, videos, and carousels (visual components) were included in this list and they were downloaded with their captions (textual components). In addition to the captions and hashtags which are the words used to signify a specific issue, theme, place etc., and updated by Instagram users (Kostygina, et al., 2021, pp. 2-3), scripts of all 167 posts within the contents were textualized. Relevant Instagram posts of each fashion brand were coded after the data collection step. Two independent coders manually coded, evaluated, and compromised for the values in the six Instagram accounts. The related values were converted into the chosen codes which are the sentences which express the main idea of the values.

3.3. Research Design

3.3.1. Exploratory Research

In this study, exploratory research method is used to discover attitudes of the interview participants towards the circular fashion messages. Since aim of exploratory research is to discover substantial, relevant topics about the research subject. All

exploratory research may not result in new and interesting points, deep diving into the research is required to reach innovative results. This research method is mostly conducted in two reasons: first one is to discover about a topic which has been researched and the other one is to extract new ideas about an existing topic in the literature (Swedberg, 2020, pp. 17-18). In social sciences, exploratory research is commonly opted for understanding opinions of humans in various subjects. Key point to reach wider insight is asking right questions to the participants (Jain, 2021, p. 543). For hypothesis testing, exploratory study focuses on "Why?" question by searching for the reasons. Since these questions vary according to each researcher, this study is correlated with discovery, creativity, and serendipity. In addition, this study method allows further and more extensive research to benefit from the insight extracted from the existing study (Casula, Rangarajan and Shields, 2020, pp. 1703-1707).

In this research, the second form of the exploratory research which is to extract new ideas from the interview participants about circular fashion messages of the brands was utilized. To grasp perceptions about circular fashion and purchasing attitudes towards the brands engaging in circular fashion, detailed questions about the Instagram posts of the six fashion brands chosen for this research were asked to the participants. These posts were selected according to the results of the first research stage and six of them having the maximum number of repeats in the network analysis were used. Name and logo of these brands were not shared with the participants not to influence their perception. According to their answers, the reasons behind their opinions about the subject were tried to be explored with further questions. These questions were shaped based on the explanation of each participant to understand the causes better. Since extracting themes for the research topic from these answers is only possible with having a solid grasp about the core reasons behind these responses. Semi-structured interview model serving for this purpose was chosen in this study.

3.3.2. Semi-Structured Interview

Semi-structured interview aims to get subjective responses from the participants related to a specific situation or concept. There are two types of questions in the structure which begins with the predetermined primary questions and the other following sub questions. Since the predetermined ones are the same questions and asked in the same order, the basic idea is comparing answers of the participants. Sub questions are open-ended and shaped according to each participant and form the construction of the interview. To generate discussion about the topic and scrutinize

answers to get more detailed information, researcher has the flexibility to deviate from the systematic order. In this way, richer data is tried to be reached by elaborating beyond the initial answers. To be able to direct the interview flow, researcher has to be knowledgeable about the research topic as much as possible. This factor is crucial to ask questions to the point and have extensive information about the relevant issue.

Participation in the interview was voluntary as clearly expressed in the volunteer consent form. They were able to refuse to participate or end the interview without giving any reason. The fundamental ethical principles were preserved in the interview questions. Data confidentiality and protection has been considered within the scope of the research. Brand names and logos were not included in the questions directed to the participants; brands have been evaluated only through their social media messages. Each participant was informed before the interview about the aim, structure, and timing of the study. It was stated in the informing letter that all answers will be kept confidential, and information obtained from the participants will be analyzed as collective themes and used in scientific publications. Contact information was shared with the participants whether they ask to learn findings of the study.

To ensure to collect adequate data, minimum advised number of participants is 30 (McIntosh and Morse, 2015, pp. 1-8). Semi-structured interviews in this study were conducted online via Google Meet with 44 participants to have meaningful analysis. The reason why online platform was preferred is its ability to reach more participants in a short period of time. It enables to interview with individuals who live geographically far away. In addition to İzmir, participants from the other cities was able to join the research. User-friendly feature of Google Meet software also enabled participants to join interviews not only via computers but also mobile phones.

Each interview lasted between 15 and 25 mins. Individuals must be at least 18 years old to participate in the study. Participants in the interview were determined by considering various demographic factors such as age, gender, education level. It is believed that these factors are sufficient to represent the population thanks to the exploratory scope of the study. For this reason, in the first part of the interview demographic information were asked to the participants. In different from the other part of the interview, this information were collected via closed-ended questions. For ethical concerns, it is recommended to take place minimum, but enough number of demographic questions should be asked to be sure that sample is representative. Too many questions about their personal information may put the participants under stress

(Adeoye-Olatunde and Olenik, 2021, p. 1363). Eight demographic questions (as seen in Table 1) were asked with the aim of collecting needed data for this research. After this part, a short questionnaire which includes 7 questions, and 6-point Likert scale which were explained in detail in the next section was conducted to measure social desirability bias of the participants.

Following this stage, audio of the participants was started to be recorded to transcript the data. Rather than setting down the answers into writing during the interview, recording was preferred for the researcher to focus on the current conversation. During the interview, additional questions rather than three main questions were asked to dig deeper into participants' emotions and thoughts about the topic (McIntosh and Morse, 2015, p. 9). The data obtained from the network analysis was used to explore opinions of 44 participants about the different communication messages related to circular fashion. These six brand messages selected based on the maximum number of repeats in the analysis were "We believe in buying better and wearing longer.", "Fashion industry needs to change.", "It is responsibility.", "We move towards circularity.", "Collection is produced with organic cotton." and "We produce garments that are built to last.". In the interview, three different questions were asked to the participants after the anonymous display of each message including both the visual and text. These questions aimed to learn the participants attitudes towards these messages, purchase intention from the brands sharing these messages and the attitudes of the participants towards the other people who prefer the brands sharing these messages via third party technique. Plutchik's wheel of emotions containing eight emotions which are expect, joy, trust, fear, surprise, and sadness (Zeng, X. et al., 2021, p.5) was utilized in the first question to discover attitudes towards the brand messages. The reason for using this model is that this culturally independent wheel includes all the basic emotions opposites of each other (Tromp and Pechenizkiy, 2014, p.2). It directs participants to reflect their feelings towards the messages easily.

Thereafter the interviews were completed; audio recordings were transcribed with the exact words of the participants. Each transcript was given a number respectively and accuracy of the content was checked. By reading answers of the all participants to the same question was examined, significant points and repeated statements were highlighted. Similar points in each response were determined to extract the common themes (Mishra and Dey, 2022, pp. 187-189). These themes were

explored and classified in relation to the social desirability scores of the participants to compare attitudes and behaviors of them.

Table 1. Demographics of Sample (N=44)

	Category	Frequency	Percent
Sex	Female	24	54.54
Sex	Male	20	45.46
	Prefer not to answer	0	0.0
	18-25	5	11.36
	26-35	12	27.27
Age (Years)	36-45	12	27.27
Age (Tears)	46-55	6	13.64
	56-65	5	11.36
	66 and over	4	9.10
Marital Status	Single	23	52.27
Maritar Status	Married	21	47.73
	No diploma	0	0.0
	Elementary school	0	0.0
Education Level	Junior high school	1	2.27
Education Ecver	Highschool diploma	10	22.73
	Bachelor's degree	21	47.73
	Master's degree and over	12	27.27
	Housewife	3	6.81
	Retired	4	9.10
	Student	3	6.81
	Worker	4	9.10
Occupation	Civil servant	3	6.81
Occupation	Executive	10	22.73
	Senior executive	3	6.81
	Faculty member	0	0.0
	Businessman	4	9.10
	Other	10	22.73

Table 1 (Continued). Demographics of Sample (N=44)

Employment	Employed	32	72.73
Status	Unemployed	12	27.27
	0–9000 TL	5	11.36
Monthly	9001–15000 TL	9	20.45
Personal	15001–21000 TL	12	27.27
Income	21001–27000 TL	5	11.36
	27001–33000 TL	5	11.36
	33001 TL and over	8	18.20
	0–18000 TL	5	11.36
Monthly	18001–30000 TL	8	18.20
Household	30001–42000 TL	10	22.73
income	42001–54000 TL	7	15.91
meome	54001–66000 TL	7	15.91
	66001 TL and over	7	15.91
	Lower income	5	11.36
Socioeconomic	Lower middle income	5	11.36
Status	Middle income	27	61.37
~ 50000	Upper middle income	7	15.91
	Upper income	0	0.00

3.3.3. Social Desirability Scale

In the first part of the interview following the demographic questions, social desirability bias of the participants were measured with a short questionnaire which includes demographic questions. In 1960, the Marlowe-Crowne Social Desirability Scale (MCSAS) was developed based on 33 questions and 2 answer options as True(Y) and False(Y) (Crowne and Marlowe, 1960, p.351). In this questionnaire, the short form of the Marlowe-Crowne Social Desirability Scale (MCSAS) developed by Ural and Özbiricikli in 2006 was benefited from to measure the social desirability bias. Other different short versions of the Marlowe-Crowne Social Desirability Scale was prepared for various studies previously based on cultural context. For instance, Italian version which includes 9 questions with seven different options was developed by Rattazzi, Canova and Marcorin in 2000 (Caputo, 2017, p. 5). In this study, a short form

was developed with 7 questions and translated to Turkish language as presented in Appendix A. This short form includes a 6-points Likert Scale from 1 to 6 ranging from strongly disagree (1) to strongly agree (6) as distinct from MCSAS which comprises of true and false options (Ural and Özbiricikli, 2006, pp. 394-402). Since the questions contain certain expressions such as always and never, presenting 6 answer choices let the participants indicate their attitudes rather than asking for preferring between just two options. Additionally, the Likert scale does not have a neutral choice which is the easiest way for the participants to answer before considering their actual behavior (Chomeya, 2010, p. 402). Each answer makes them decide and reflect their position, either positive or negative side.

Participants were classified according to their social desirability scores based on the short form of MCSDS. The total social desirability score of each accountant consists of a sum of 7-scale statements. Participants are split into two groups according to their scores; if participants have a higher score than mean they are assumed as having high social desirability tendency and vice versa. Based on the formula 5/6=0,83, in a rating that is evaluated out of 6 and has 5 intervals, 1 to 1,83 strongly disagree; 1,84 to 2,67 disagree; 2,68 to 3,51 slightly disagree; 3,52 to 4,35 slightly agree; 4.36 to 5,19 agree, 5.20 and above can be interpreted as strongly agree. Within the framework of these determined score ranges, the lower limit of the "slightly agree" option was determined as the threshold value of 3,52. This value was considered as the lower limit of social desirability bias.

CHAPTER 4: FINDINGS

In the study of Dunn and Shome (2009, p. 537), it is stated that more education and employment level is positively related to social desirability bias. Additionally, research findings of Nolte, Elsworth and Osborne (2013, p. 2) and Chung and Monroe (2003, p. 298), demographic data is also associated with social desirability bias. These researchers claim that social desirability tendency of women is higher than men. Even though this research has exploratory nature and sample size may not be enough for generalizing findings, no significant relation between gender and social desirability has been found. Since, 58% of the participants with high social desirability score are women while 42% of them are men. In addition to gender factor, the research of Heerwig and McCabe (2009, p. 674) examining the relationship between social desirability and education level stated that there is a negative correlation between social desirability level and educational attainment. In contrast to this statement, in this study just 17 percent of the participants with high social desirability score have high school or lower educational degree. 83% of these participants have bachelor or higher degree meaning that level of education and social desirability has positive correlation in this research.

Interview findings do not agree with the tendency of lower social status individuals to engage in circular fashion practices (Çakır and Dedeoğlu, 2020, p.70) because of the social risk that individuals who are afraid of facing a loss in their social image refrain from participating in these activities (Lang, Seo and Liu, 2019). Most of the research participants who have high social desirability and then more optimistic about this model have personal income between 15.000 TL and 27.000 TL and this scale is not considered as lower income group in this research. That's why, it can be claimed that the relationship between social desirability and engaging in circular fashion applications are not dependent on economic wellbeing. In addition to demographics, other considerations including personal traits and attitudes are discovered and four different themes are extracted as a result of the second part of the interview.

4.1. Findings of the Semi-Structured Interviews

4.1.1. Clothing Performance

Clothing performance is evaluated based on the different attributes of quality such as raw materials and fabric used, its comfort, durability, pattern, and fitting.

Consumers evaluate these attributes by choosing the most significant one for them and compare the other alternatives according to the lexicographic decision rule (Du Preez et al., 2018, pp. 36-38). Based on the interviews, it can be claimed that clothing performance is the most significant factor for the participants who have low social desirability bias. They consider shopping from the brands that offer high-quality and durable pieces. Most of them are brand loyal consumers who trust the specific brands whether their clothes can be worn for a long time. Shopping from these brands provides economic benefit in the long term especially for the family budget. One of the participants stated that "I would consider purchasing the garment in the post since it looks suitable to be worn under different weather conditions for a long time". Even though economic and environmental factors were mentioned, durability becomes the prominent criterion for the shopping decision. For instance, it is needed to be sure that color of trousers will not fade in the tumble dryer before making the decision. High quality garments can be used for long periods of time and then contribute to reduced waste, but environmental benefit is perceived as nice to have property of these products.

While the sustainability approach of a brand alone is not a shopping motivation for the majority of the participants with low social desirability score, performance is the main criteria. These participants tend to buy hand-made garments for the quality perception of these products rather than society related concerns. Examining the post indicating the background of denim production process, one of the participants stated, "Riveting process is critical in this photo since it indicates longevity and durability of this jean". Preferring durable clothes contributes to decrease purchasing frequency. In addition to using high quality components including fabric, Using ecological raw material in garment production is significant for the majority because these chemical-free fibers are better for their skin. They pointed out that they choose organic cotton since it does not cause harm to skin and provide comfort. Having less impact on the environment is not a unique selling point.

4.1.2. Emotional Brand Attachment

For the group of participants who have higher social desirability bias, confirming a brand or product depends on the other factors rather than the performance criteria. It would not be wrong to claim that they expect brands to offer emotional benefits in addition to their functions. Not only offering their performance attributes but how they communicate these benefits is also critical for these participants. They

tend to be loyal to the brands that can create emotional attachment with their consumers. Emotional brand attachment is a key concept since it shapes consumer attitudes towards the brand and reflects the bond strength between the brand and consumer (Ghorbanzadeh and Rahehagh, 2020, pp. 18-19). It may be possible to explain the attitude of participants who have a high social desirability score with their trust expectation to obtain from their social relations. The study in which social desirability bias and trust in the institution and the manager are related exemplifies this situation (Ostrem, 2006, p. 123).

While majority of the participants who have a low social tendency score highlight the features of durability and longevity of a jean shared in the posts, one of them with a high score mention about how wearing and smelling freshly washed jean make her feel safe. One of the other participants stated, "This post evoked a sense of happiness for me." These findings are also supported by the study of Caputo (2017, p. 6-8) that highlights the strong positive association between high level of social desirability and greater happiness and gratitude of individuals. This association is related to altruistic tendency of these individuals to behave in a culturally agreeable way. Individuals with higher tendency indicate more affiliative behavior and are inclined to have lower levels of depression and anxiety. It is also required to highlight that these individuals with higher social desirability scores have more ability for empathy. This claim is consistent with the finding that most of the participants with higher social desirability believe the necessity of shaping shopping decision according to the benefits of others. Since they believe that all of us are socially responsible to other individuals, we need to put ourselves in the shoes of others rather than making our purchasing decisions just with individuals concerns. That's why purchasing garments based on short term trends is a selfish behavior in terms of future of the planet and humanity.

In their study, Havan and Kohút (2019, p. 47) found that people who have high social desirability tends to be more extroverted and sociable. Individuals with higher energy level related to their extraversion behave in more socially desirable way. In line with this finding and Caputo's (2017, p. 7) work claiming that higher social desirability is negatively related to loneliness, feelings of togetherness and sociability in the brand messages became influential to boost the moods of participants with higher social desirability scores. They pointed out that brand messages giving place various styles together in harmony provides the feeling of joy. The sense of happiness and joy

becomes helpful for establishing an emotional bond with the brands. In addition, rather than sharing stereotypes of the fashion industry, taking place fashion models with different sizes, body shapes, eye and hair colors reflect change. Most of them are optimistic about the transformation of the fashion industry towards a more inclusive model which is based on producing more tailor-based garments rather than replicating catwalk trends. Throughout the transformation of the industry, a more global approach depending on manufacturing timeless garments suitable for different segments of people would be adopted. In addition to physical features, positive gestures and mimics of these fashion models are also associated with the feeling of joy by the participants. Awakening joy and happiness is an important criterion for having an emotional bond and purchasing from a specific brand. For this reason, emotional attachment with a fashion brand of this group with higher social desirability scores increases their loyalty to this brand.

To reduce the gap between the real and desired moral personal identity, individuals become more supportive with giving and engaging in volunteer activities. These individuals perceive themselves as more kind, philanthropist, and kind. Hence, they tend to behave in a more socially desirable way by maximizing the utility of giving (Lee and Sargeant, 2011, p. 714). This giving behavior may be associated with individuals engaging in circular fashion practices. Rather than landfilling or throwing away, these individuals who have higher social desirability can prefer to donate their garments to other people or stores utilizing them for reusing purposes. In addition to people, socially responsible brands give back to the community and environment. One of the participants stated that "I consider shopping from the brands with purpose of having social and environmental benefits. For instance, by purchasing a piece from World Wildlife Fund (WWF), I feel as a part of volunteer activity and act of kindness. Since, return of my payment is not only a garment but also contribution to save animals facing extinction." As participants with high social desirability score have inclination for joining to giving activities, their expectation from a fashion brand is in the same route. If a brand succeeds to satisfy these expectations, emotional connection with the consumers would be stronger.

4.1.3. Greenwashing Concerns

Greenwashing is described as a way of positive communication of companies about environmental issues even though they adopt practices which have negative impact on environment. Since differentiating between eco-friendly activities and false

claims of the brands is not easy for consumers, skepticism towards the sustainability claims has been increasing (De Freitas Netto et al., 2020, p. 1). Skepticism towards the brand messages is the common point among the participants with lower level of social desirability bias. One of them stated about the post including organic cotton usage that "I have more cautious approach towards these messages, in addition to fabric I also wonder which dye and yarn types are used in the production process". Some participants reflected their feelings about the message 'anger' from Plutchik's wheel of emotions. The majority of this group of participants believe that green claims are misleading, and they are mostly used as a marketing strategy by the fashion industry. Their attitude towards shopping from these brands are also negative since it is expressed that promises of the brands about circular fashion are not enough to consider purchasing their products. Another participant highlighted the background of production process belonging to the brands sharing messages about the circular fashion implementations. It is also stated that current fast fashion brands such as H&M is claiming to care for people and environment and have sustainable manufacturing. However, working environment of its subcontractors in Bangladesh are different than communication messages of the company. Cultural context is perceived as another important barrier to apply circular fashion practices. Even though fashion brands can be successful for implementing this business model in other countries, developing world such as Bangladesh and Turkey has a long way to go.

Participants with a high level of social desirability are more optimistic towards the sustainability claims of the brands. Instead of being skeptical about these brands, their attitudes are more supportive and believe that both consumers and brands have social responsibility to change the current consumption habits. They also tend to shop from the brands with circular fashion claims at least to discover whether the message and products of these brands are consistent. It is also common point among the participants with higher social desirability scores to be inclined to have trust in the fashion brands communicating change in their messages as they believe that these brands aim to reach better. This optimistic approach can be supported with the finding of Ones, Viswesvaran and Reiss (1996, p. 665) that social desirability and agreeableness are positively associated. Acting for the better is not only for themselves but also for the environment, planet, and society. Reducing overconsumption and waste cannot be classified as a personal benefit, it is about the collective wellbeing. Individuals describe themselves in line with the values of society in collectivism. In

contrast to this mindset, individualistic culture highlights independence from the society (Dunn and Shome, 2009, p. 536). The collectivist mindset of the participants with high social desirability scores again can be associated with the high level of extraversion which is widely accepted as one of the big five personality traits (Havan and Kohút, 2019, pp. 37-38). The research of Jan Benedict et al. (2010, p. 217) supports this view by expressing the idea that belonging to a group and society is desired in collectivist societies which have social desirability tendency by attaching importance to position themselves in a favorable way.

As mentioned in the literature review, avoiding greenwashing activities is critical for the fashion brands having claims about circular economy to create green value for their consumers. In the interview, participants with high social desirability scores have inclination to find these messages more authentic. Considerable number of participants are aware that existing linear fashion model harms to both nature and human. They take smaller steps to tackle with this global problem such as preferring fabric shopper bags instead of single-used plastics, bringing their unused clothes back into the stores for reusing, shopping from the responsible brands that support circularity. Together with these issues, this group of participants have expectations from these fashion brands to act for the scarcity of natural resources, carbon and water footprint and poor working conditions. If these expectations are considered to be met by and brands are able to implement circular product life cycle applications including reusing and upcycling, having environmentally and socially responsible production system, managing waste, the participants lean towards shopping from these brands.

4.1.4. Openness to Change

All participants agree with the idea that the current fashion system is problematic, however their attitudes towards the need for change is not identical. Although the group of the participants with the lower social desirability scores are more suspicious towards the green claims, they also have concerns against the change of the fashion industry. According to their statements in the interview, it is hard to be sure whether the change is good or bad. This group of participants is more wary towards marginal fashion styles since most of them believe that choosing classic styles is less risky. They may not consider purchasing upcycled or craft clothes as mass produced ones look more usual than these types of garments. Another factor making the participants with lower social desirability level reluctant to change of the fashion industry is price concern. If a garment is not mass produced and manufactured

according to circular fashion practices, recycled, or upcycled, it is perceived as more expensive. In different from this opinion, recycled or reused clothes are comprehended cheaper to the other group who has high social desirability. The logic behind this opinion is that in the production process of circular fashion model, fashion waste is utilized, or existing product is repaired and transformed into a new one rather than purchasing new raw materials.

The perception of the second group with higher social desirability level about the change is the opposite towards transformation of fashion industry. During the interviews with this group, since the needs and expectations evolve over time, the necessity to adopt the change was heavily focused on. The feeling of excitement and enthusiasm change will create was mentioned. This finding conforms with the research of Jan Benedict et al. (2010, p. 206) that examines social desirability bias in two categories as communal and egoistic. To the results of the study, openness to change is positively associated with the individual focused form of social desirability tendency. Openness to change is related to the independence tendency which is about following their own routes in unpredictable situations. The opposite attitude is desire to preserve the existing conditions by seeking for conformity and security. A large part of the participants who have a high social desirability level have higher expectations from the brands communicating about the need for change. As the change message of the brands is arousing curiosity for them, they tend to purchase the garments from these brands. According to this group, transformation of the current fashion industry towards a circularity is essential to put more emphasis on environmental and social sustainability. Almost all belonging to this participant group finds the brand message "Fashion industry needs to change" positive and select anticipation and trust from the Plutchik's Wheel of Emotions. One of them expressed that the current system is based on short-term fashion trends but not long-term usage of clothing. This business model is not sustainable since the ultimate aim of the fast fashion brands is boosting sales. Even though change does not happen suddenly and takes time, radical transformation of the industry to vital for the next generations.

4.2. Findings Related to Semantic Network Analysis

In a semantic network analysis, there are nodes or vertices which represent the structures and edges or links which indicate the relationship between two of them (Drieger, 2013, pp. 9-10). Table 2 indicates the basic findings of the Instagram posts network of 6 global fashion brands. There are 339 vertices which symbolize total of

core values in the network. 339 vertices establish a total of 2403 lines and 1471 of these lines have value 1 while 932 of them have value more than 1. Density measures number of relationships between the vertices in the network (Jeon and Kim, 2020, pp. 71-72). In this study, density of Instagram posts network is 0.02 meaning that 2% of the possible directed lines is available. Thus, it can be described as a sparse network which shows diversity of the post messages. More diverse messages enrich the content of this research. The average degree, which is 14 in this network indicates the average number of linkages. In average, an Instagram post ties other ones 14 times.

Table 2. Semantic Network Analysis Metrics of Instagram Posts Network

Instagram Posts Network					
Number of vertices 339					
Number of lines with value 1	1471				
Number of lines that have different value than 1	932				
Total number of lines	2403				
Density of the network	0.02097188				
Average degree	14.17699115				

4.2.1. Valued Core Analysis

The total number of lines in the research is 2403 and valued core analysis demonstrates the units linked to each other with a certain number of lines. The lowest value is 0 and the highest one is 12 when valued core levels of Instagram posts network are examined. In this research, Instagram posts are linked to each other with at least with 0 and at most with 6 lines.

Table 3. All Max Valued Core Values

Instagram Posts Network				
Dimension	339			
The lowest value	0			
The highest value	12			

In directed networks, each vertex has both incoming and outgoing links which are called input and output degrees respectively. That's why connections between the vertices don't have to be symmetric in these networks (Williams and Del Genio, 2014, p. 1). Since Instagram posts network is directed, input and output degrees are examined

separately. The number of incoming and outgoing lines from a vertex is not equal and their direction is significant in this research.

According to the frequency distribution of input cluster values table, 64 of 339 values are linked with value 0; 102 of them are linked with value 1, 110 of them are linked with value 2, 23 of them are linked with value 3, 9 of them is linked with value 4, 12 of them are linked with value 5, 11 of them is linked with value 6, 5 of them is linked with value 7, 1 of them is linked with value 9 and 2 of 339 values are linked with value 12. In Table 5, the Instagram posts with most input valued core values which are tied with more than value 6 are shown as "We reduce our fiber impact.", "We explore the possibilities presented by innovations." and "We make better clothes.". There is not a significant structure between the other values which are linked with value equal to and less than 6.

Table 4. Frequency Distribution of Input Cluster Values

Cluster	Freq	Freq %	CumFreq	CumFreq%	Representative
0	64	188.791	64	188.791	Redesign is a project by the foundation.
1	102	300.885	166	489.676	Sustainability Innovation Hub supports partners to scale up their initiatives.
2	110	324.484	276	814.159	It's a durable piece.
3	23	67.847	299	882.006	Wear longer.
4	9	26.549	308	908.555	We move towards circularity.
5	12	35.398	320	943.953	Wear it.
6	11	32.448	331	976.401	We adopt new practices including reducing carbon emissions.
7	5	14.749	336	991.150	We make better clothes.
9	1	0.2950	337	99. 4100	We explore the possibilities presented by innovations.

Table 4 (Continued). Frequency Distribution of Input Cluster Values

12	2	0.5900	339	1.000.000	We impa	reduce act.	our	fiber
Sum	339	1.000.000						

Table 5. Instagram Posts with Most Input Valued Core Values

Representative	Freq.
We reduce our fiber impact.	12
We explore the possibilities presented by innovations.	9
We make better clothes.	7

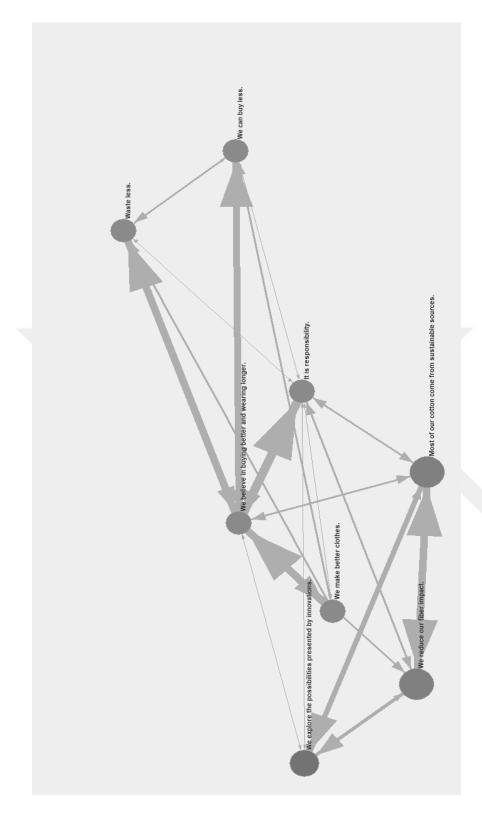


Figure 1. Input Valued Core Network

According to the frequency distribution of output cluster values table, 57 of 339 values are linked with value 0, 68 of them are linked with value 1, 126 of them are linked with value 2, 30 of them are linked with value 3, 17 of them is linked with value 4, 16 of them are linked with value 5, 16 of them is linked with value 6, 7 of them is linked with value 7 and 2 of them is linked with value 12. In Table 7, the Instagram posts with most output valued core values which are tied with more than value 6 are indicated as "We reduce our fiber impact." and "It is our climate commitment." It can be stated that there is not a significant structure between the other values which are linked with value equal to and less than 6.

Table 6. Frequency Distribution of Output Cluster Values

Cluster	Freq	Freq %	CumFreq	CumFreq%	Representative
0	57	16.8142	57	16.8142	Redesign is a project by the
					foundation.
1	68	20.0590	125	36.8732	Old garments are on someone
					else.
2	126	37.1681	251	74.0413	It's a durable piece.
3	30	8.8496	281	82.8909	Wear it.
4	17	5.0147	298	87.9056	Uncovered actions that
					businesses can take on a
					corporate level to change the
					planet.
5	16	4.7198	314	92.6254	We move towards circularity.
6	16	4.7198	330	97.3451	We produce garments that are
					built to last.
7	7	2.0649	337	99.4100	It is our climate commitment.
12	2	0.5900	339	100.0000	We reduce our fiber impact.
Sum	339	100.0000		1	

Table 7. 2 Instagram Posts with Most Output Valued Core Values

Representative	Freq.
We reduce our fiber impact.	12
It is our climate commitment.	7

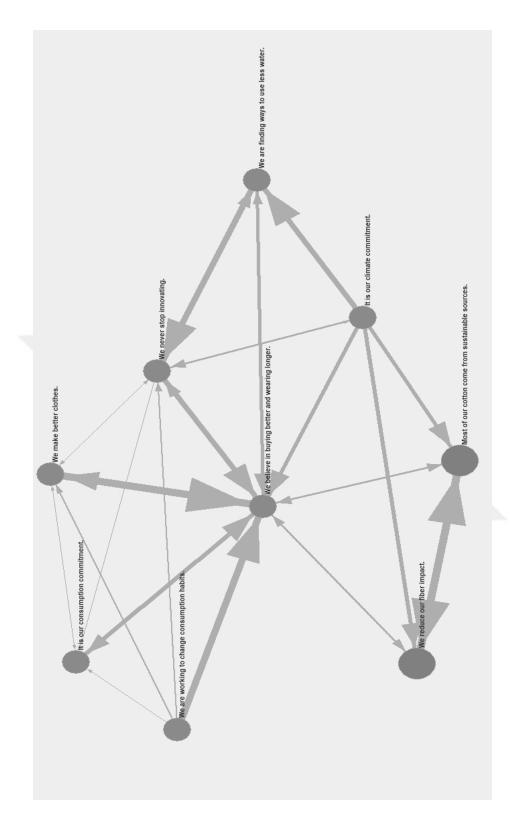


Figure 2. Output Valued Core Network

4.2.2. Input Degree Analysis

Centrality is used to measure the place of a vertex in a network. "Degree centrality," closeness centrality" and "betweenness centrality" are the three measurements for analyzing centrality (Jeon and Kim, 2020, p. 72). Degree centrality analysis measures the connectivity level of a vertex. In a word, it represents sum of the total links of a vertex with the other ones (Kostygina, et al., 2021, pp. 3-4). In the Instagram posts network, the most popular value which gets the highest number of inputs is "Fashion industry needs to change." Even though, number of connections outgoing from "It is cradletocradle certified." is not high, this value ranks in the fourth place in terms of number of connections it receives.

Table 8. Input Degrees in Instagram Posts

Rank	Vertex	Value	Id
1	126	1.0000	Fashion industry needs to change.
2	75	0.5979	We believe in buying better and wearing longer.
3	212	0.4742	It is responsibility.
4	182	0.4124	It is cradletocradle certified.
5	7	0.3814	It is an innovation.
6	1	0.3299	We move towards circularity.
7	280	0.3299	You are credited to buy something.
8	127	0.2990	Collection is produced with organic cotton.
9	164	0.2887	Wear worn.
10	193	0.2680	It is fully recyclable.
11	102	0.2577	Get involved.
12	301	0.2577	It is better for the soil.
13	124	0.2371	Sustainability is essential.
14	237	0.2371	It is circularity.
15	26	0.2371	We produce garments that are built to last.
16	136	0.2371	We use renewable energy.
17	122	0.2165	We believe in circular fashion.
18	188	0.2165	Our partnerships are focused on climate.
19	90	0.2165	When you no longer need it, trade in.
20	207	0.2062	We can buy less.
21	74	0.2062	Pass it on to someone who will use it.

Table 8 (Continued). Input Degrees in Instagram Posts

22	285	0.2062	Safe dyes and chemicals are used.
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4.2.3. Output Degree Analysis

Since "Fashion industry needs to change." and "We believe in buying better and wearing longer." are the two top values in both input and output degrees analysis, it can be claimed that they have the highest number of incoming and outgoing lines to other values. "We make the fashion industry more circular." is not present among the top input degree values. However, it has the third highest value in terms of the number of outgoing connections.

Table 9. Output Degrees in Instagram Posts

Rank	Vertex	Value	Id
1	126	1.0000	Fashion industry needs to change.
2	75	0.5979	We believe in buying better and wearing longer.
3	40	0.4742	We make the fashion industry more circular.
4	212	0.4124	It is responsibility.
5	26	0.3814	We produce garments that are built to last.
6	35	0.3299	We take your garment back when you no longer need it.
7	127	0.3299	Collection is produced with organic cotton.
8	1	0.2990	We move towards circularity.
9	67	0.2887	It is our climate commitment.
10	162	0.2680	It eliminates the concept of waste.
11	63	0.2577	We adopt new practices including reducing carbon
			emissions.
12	50	0.2577	We want our customers to make sustainable choices.
13	36	0.2371	Our goal is to source all of the materials more
			sustainably.
14	116	0.2371	Circularity is to extend the life of products.
15	108	0.2371	Collection is designed with its whole life cycle and
			future.
16	99	0.2371	Our collaboration makes each piece unique.
17	77	0.2165	We are working to change consumption habits.
18	124	0.2165	Sustainability is essential.

Table 9 (Continued). Output Degrees in Instagram Posts

19	237	0.2165	It is circularity.
20	37	0.2062	We share our sustainability report.

4.2.4. Input Closeness Analysis

Closeness centrality measures geodesic distances from one node to other ones. This analysis is just valid for the networks that all structured are connected to each other (O'Malley and Marsden, 2008, pp. 260-265). It indicates the sum of the distance between directly and indirectly vertices as distinct from degree centrality (Jeon and Kim, 2020, p. 73). Twenty values with the highest centrality degrees for the Instagram posts network are presented in the Table 10 and 11 below. In terms of closeness, "Fashion industry needs to change." and "We believe in buying better and wearing longer." are the most central three values.

Input degrees of the first twenty values in the Instagram posts network are close to each other. "Fashion industry needs to change.", "We believe in buying better and wearing longer.", "We move towards circularity." have the highest input centrality degrees. "We make sustainable clothes.", and "It is a process to move towards a sustainable future.", "It is better for the soil.", "We believe in circular fashion.", "Safe dyes and chemicals are used." and "We design for circularity." are significant only in input closeness analysis.

Table 10. Input Closeness Centrality in Instagram Posts

Rank	Vertex	Value	Id
1	126	10.000	Fashion industry needs to change.
2	75	0.9747	We believe in buying better and wearing longer.
3	1	0.9279	We move towards circularity.
4	212	0.8894	It is responsibility.
5	188	0.8668	Our partnerships are focused on climate.
6	7	0.8629	It is an innovation.
7	124	0.8616	Sustainability is essential.
8	127	0.8591	Collection is produced with organic cotton.
9	182	0.8591	It is cradletocradle certified.
10	237	0.8440	It is circularity.
11	193	0.8440	It is fully recyclable.

Table 10 (Continued). Input Closeness Centrality in Instagram Posts

12	60	0.8367	We make sustainable clothes.
13	240	0.8190	It is a process to move towards a sustainable future.
14	207	0.8132	We can buy less.
15	26	0.8121	We produce garments that are built to last.
16	301	0.8064	It is better for the soil.
17	122	0.8031	We believe in circular fashion.
18	285	0.8031	Safe dyes and chemicals are used.
19	162	0.7997	It eliminates the concept of waste.
20	154	0.7975	We design for circularity.

4.2.5. Output Closeness Analysis

Output closeness indicates the total distance of direct and indirect outgoing lines of a node to others. Table 11 indicates the twenty values with the highest output closeness centrality degrees for the Instagram posts network. "We believe in buying better and wearing longer.", "Fashion industry needs to change." and "We take your garment back when you no longer need it." have the highest output centrality degrees. "We take your garment back when you no longer need it.", "We make the fashion industry more circular.", "We want our customers to make sustainable choices.", "We adopt new practices including reducing carbon emissions.", "Circularity is to extend the life of products.", "We are building a sustainable future.", "Wear it.", "Recycling is really important.", "We are finding ways to use less water." are only significant in the output closeness centrality.

Table 11. Output Closeness Centrality in Instagram Posts

Rank	Vertex	Value	Id
1	75	10.000	We believe in buying better and wearing longer.
2	126	0.9585	Fashion industry needs to change.
3	35	0.9581	We take your garment back when you no longer need it.
4	40	0.9219	We make the fashion industry more circular.
5	26	0.9098	We produce garments that are built to last.

Table 11 (Continued). Output Closeness Centrality in Instagram Posts

6	127	0.9083	Collection is produced with organic cotton.
7	50	0.9054	We want our customers to make sustainable choices.
8	63	0.8995	We adopt new practices including reducing carbon emissions.
9	1	0.8966	We move towards circularity.
10	212	0.8796	It is responsibility.
11	116	0.8699	Circularity is to extend the life of products.
12	162	0.8672	It eliminates the concept of waste.
13	193	0.8605	It is fully recyclable.
14	124	0.8578	Sustainability is essential.
15	188	0.8565	Our partnerships are focused on climate.
16	81	0.8499	We are building a sustainable future.
17	18	0.8447	Wear it.
18	207	0.8396	We can buy less.
19	228	0.8384	Recycling is really important.
20	143	0.8371	We are finding ways to use less water.

4.2.6. Betweenness Analysis

Betweenness centrality states the possible velocity and quality of communication in a network by analyzing the average shortest links between network structures. Betweenness is influenced by both the number of links and presence of structural holes which are related to the non-existence of direct links between the structures. Betweenness centrality and these holes have negative correlation because they cause structures to use more indirect ways to reach other sides of the network (Bloodgood et al., 2017, pp. 532-533). "Fashion industry needs to change." and "We believe in buying better and wearing longer." values have the highest betweenness centrality degree as stated in Table 12 and they have a mission of node-to-node data transfer.

Table 12. Betweenness Centrality in Instagram Posts

Rank	Vertex	Value	Id
1	126	1.0000	Fashion industry needs to change.

Table 12 (Continued). Betweenness Centrality in Instagram Posts

2	75	0.7561	We believe in buying better and wearing longer.
3	26	0.3274	We produce garments that are built to last.
4	1	0.3241	We move towards circularity.
5	212	0.2989	It is responsibility.
6	127	0.2140	Collection is produced with organic cotton.
7	7	0.1906	It is an innovation.
8	280	0.1503	You are credited to buy something.
9	39	0.1388	It is upcycled post consumer waste.
10	164	0.1358	Wear worn.
11	33	0.1276	We limit our environmental impact.
12	116	0.1162	Circularity is to extend the life of products.
13	85	0.1099	We have a debt to pay back to the environment.
14	98	0.1097	We are saving our home planet.
15	67	0.1089	It is our climate commitment.
16	228	0.1063	Recycling is really important.
17	92	0.1052	Experts offer free repair.
18	124	0.1032	Sustainability is essential.
19	113	0.1015	It is made with recycled materials.
20	63	0.1001	We adopt new practices including reducing carbon emissions.

4.2.7. Articulation Points Analysis

Articulation point is defined as a number of bridges to which a node belongs and in the absence of these points, a network is separated into independent parts (Nooy, Mrvar and Batagelj, 2018, p. 176). According to Table 13, there are 5 articulation points in the Instagram posts network and all of them have an equal value of 2. If "It is an innovation.", "It is made with recycled materials.", "It is made with natural dyes.", "Discover the cherish waste collection." or "We believe in buying better and wearing longer." values are removed, the network is separated into 2 different sections. These 5 values can be called building blocks and hold the Instagram posts network together.

Table 13. Articulation Points in Instagram Posts

Values	Articulation Points
2	It is an innovation.
2	It is made with recycled materials.
2	It is made with natural dyes.
2	Discover the cherish waste collection.
2	We believe in buying better and wearing longer.

4.2.8. Total Findings of 8 Dimensions

Instagram posts network of 6 global fashion brands is analyzed based on 8 different dimensions which are input degree, output degree, input closeness, input valued core, output valued core, output closeness, betweenness and articulation point. However, there is no value repeated 8 times in the network. "We believe in buying better and wearing longer." is repeated 6 times which is the maximum number of repeats. The other posts repeated in 5 different dimensions are "Fashion industry needs to change.", "It is responsibility, "We move towards circularity.", "Collection is produced with organic cotton.", "We produce garments that are built to last." Representation of the network has a positive relationship with the number of repeats in dimensions. These values are significant in terms of characterizing the Instagram posts network. The values at least repeated once are indicated in table 14, remaining ones are not repeated in any dimension. 52 of 339 Instagram posts are repeated at list in one dimension. In other words, these 52 structures take place minimum once in the Instagram posts dimensions table that lists maximum values.

Table 14. Summary of Semantic Network Analysis Findings of Instagram Posts

Instagram Posts	Number of Repeat	Repeated Dimensions
We believe in buying better and wearing longer.	6	Input degree, output degree, input closeness, output closeness, betweenness, articulation point
Fashion industry needs to change.	5	Input degree, output degree, input closeness, output closeness, betweenness

Table 14 (Continued). Summary of Semantic Network Analysis Findings of Instagram Posts

It is responsibility.	5	Input degree, output degree, input closeness, output closeness, betweenness		
We move towards circularity.	5	Input degree, output degree, input closeness, output closeness, betweenness		
Collection is produced with organic cotton.	5	Input degree, output degree, input closeness, output closeness, betweenness		
We produce garments that are built to last.	5	Input degree, output degree, input closeness, output closeness, betweenness		
Sustainability is essential.	4	Input degree, output degree, output closeness, betweenness		
It is an innovation.	4	Input degree, input closeness, betweenness, articulation point		
It is our climate commitment.	3	Output valued core, output degree, betweenness		
It is fully recyclable.	3	Input degree, input closeness, output closeness		
Our partnerships are focused on climate.	3	Input degree, input closeness, output closeness		
We can buy less.	3	Input degree, input closeness, output closeness		
It is circularity.	3	Input degree, output degree, input closeness		

Table 14 (Continued). Summary of Semantic Network Analysis Findings of Instagram Posts

It eliminates the concept of waste.	3	Output degree, input closeness, output closeness			
We adopt new practices including reducing carbon emissions.	3	Output degree, output closeness, betweenness			
Circularity is to extend the life of products.	3	Output degree, output closeness, betweenness			
It is made with recycled materials.	Betweenness, articulation point				
We reduce our fiber impact.	2	Input valued core, output valued core			
It is cradletocradle certified.	2	Input degree, input closeness			
It is better for the soil.	2	Input degree, input closeness			
Safe dyes and chemicals are used.	2	Input degree, input closeness			
We believe in circular fashion.	2	Input degree, input closeness			
You are credited to buy something.	2	Input degree, betweenness			
Wear worn.	2	Input degree, betweenness			
We make the fashion industry more circular.	2	Output degree, output closeness			
We take your garment back when you no longer need it.	2	Output degree, output closeness			
We want our customers to make sustainable choices.	2	Output degree, output closeness			
Recycling is really important.	2	Output closeness, betweenness			

Table 14 (Continued). Summary of Semantic Network Analysis Findings of Instagram Posts

We explore the possibilities presented by innovations.	1	Input valued core
We make better clothes.	1	Input valued core
It is made with natural dyes.	1	Articulation point
Discover the cherish waste collection.	1	Articulation point
We use renewable energy.	1	Input degree
Get involved.	1	Input degree
When you no longer need it, trade in.	1	Input degree
Pass it on to someone who will use it.	1	Input degree
Our goal is to source all of the materials more sustainably.	1	Output degree
Collection is designed with its whole life cycle and future.	1	Output degree
Our collaboration makes each piece unique.	1	Output degree
We are working to change consumption habits.	1	Output degree
We share our sustainability report.	1	Output degree
We make sustainable clothes.	1	Input closeness
It is a process to move towards a sustainable future.	1	Input closeness
We design for circularity.	1	Input closeness
We are building a sustainable future.	1	Output closeness
Wear it.	1	Output closeness
We are finding ways to use less water.	1	Output closeness
It is upcycled post consumer waste.	1	Betweenness
We limit our environmental impact.	1	Betweenness
We have a debt to pay back to the environment.	1	Betweenness

Table 14 (Continued). Summary of Semantic Network Analysis Findings of Instagram Posts

We are saving our home planet.	1	Betweenness
Experts offer free repair.	1	Betweenness

CHAPTER 5: DISCUSSION AND CONCLUSION

A two-step research approach was implemented to identify the relationship between social desirability bias and engaging in circular fashion. Semi-structured interviews which were shaped according to the data extracted from the semantic network analysis were conducted. In this analysis, social media messages about circular fashion practices of 6 different global fashion brands (Zara, H&M, C&A, Levi's, G-Star and Patagonia) were examined and their messages were analyzed via semantic network analysis. In the next phase of the research, the data obtained from the network analysis was used to explore opinions of 44 participants about the different communication messages related to circular fashion with a short interview form. As a result of interviews and literature review, four different themes which are clothing performance, emotional brand attachment and greenwashing concerns and openness to change were explored.

Interview participants were split into two groups according to their level of social desirability. If participants have a higher score than mean which is 3.52, they are assumed as having high social desirability according to the short form of Marlowe-Crown Social Desirability Scale. While 55% of the participants have a high social desirability tendency, 45% of them are classified as having a low social desirability tendency. These two groups have different tendencies for engaging in circular fashion practices. Since there are many studies in the literature that found existing correlation between personal characteristics and social desirability tendency (Havan and Kohút, 2019, p. 39), (Ones, Viswesvaran and Reiss, 1996, p. 665) in this study, these traits were discussed in respect of attitude towards the circular fashion.

Social desirability bias has been a wide research topic in marketing for the duration (Jan Benedict et al., 2010, p. 210). Due to the fact that in marketing literature there are innumerable studies assessing consumer behavior, product and purchasing attitudes, personality traits, social desirability tendency measure has critical role. Using these measures is beneficial for understanding social desirability level of the research participants as the marketing discipline preoccupies self-evaluation measures about these topics (King and Bruner, 2000, pp. 84-85).

According to the findings of the first part of the interview structure including demographic questions and the short form of Marlowe-Crown Social Desirability Scale, it can be discussed that there is no significant relationship between economic

status and social desirability level. Participants which are optimistic about the circular fashion and have high social desirability are distributed levelly in terms of their personal incomes. Nevertheless, most of these individuals have bachelor or higher degree meaning that level of education and social desirability is positively correlated. In addition to demographics, other considerations including personal traits and attitudes are discovered in the following section. Research results underline the different attitudes of interview participants towards circular fashion practices. After analyzing the interview transcripts in line with the existing literature, it can be claimed that these attitudes stem from the particular personal traits. As there are significant number of studies examining the relationship between personal characteristics and social desirability, themes extracted from the interviews were interpreted in association with these studies. As a result, it would not be wrong to argue that in addition to education level, social desirability tendency of individuals is correlated with their personal traits and thus their attitudes towards the circular fashion.

In this exploratory research, four different themes extracted from the interviews which are clothing performance, emotional brand attachment, greenwashing concerns, and openness to change were examined in relation with the social desirability. These themes were investigated depending upon the theoretical framework and research questions. The relationship between social desirability bias and engaging in circular fashion is found as a result of the research and type of this relationship were studied. It is inferred that the personal attitudes of each group evaluated based on these themes are interdependent. The connection between each characteristic belonging to the groups having different social desirability level is discussed.

Even though all participants agree with the idea that the current fashion system is problematic, their attitudes towards the need for change is different. The group of the participants with the lower social desirability scores are more suspicious towards the change of the fashion industry. As they are more pessimistic about the circular fashion model, green claims are misleading, and they are mostly used as a marketing strategy by fashion brands according to this group. In contrast, the other group supports transformation of the current fashion industry towards a circularity as it is essential to put more emphasis on environmental and social sustainability. Thus, suspicion about the brands whether they are authentic with their messages or engage in greenwashing can be associated with the attitude of openness to change. One of the participants with low social desirability score also defines herself as status quo supporter who give more

importance to clothing performance than other factors. Since making a purchasing decision based on the performance criterion mainly quality and durability is perceived as less risky. If individuals are loyal to specific brands due to these performance related features, they would be reluctant to have a try other brands implementing circular model. Because of this risk averse attitude of consumers who have low social desirability, they may become more suspicious about the change. In addition, quality concern in circular fashion applications if the performance of a garment satisfies expectations of the consumers (Lang and Zhang, 2019, p. 158) can be another reason of this attitude. That's why they would be unwilling towards transition of the fashion industry towards a circular economy and engagement with these circular fashion applications compared to the other consumers with high social desirability level.

Clothing performance can be interpreted as an individual concern since expectations from high quality garments are mostly on a personal level such as comfort and wellbeing. Since clothing performance is the main shopping criterion with the consumers with low level of social desirability, this feature can be affiliated with their individualist approach. As it is discussed in the findings, the other consumer group with high social desirability makes the decisions heavily with collective concerns. They are anxious about the future of existing linear fashion model and willing to take smaller steps to tackle with this issue for the benefits of both society and environment. In contrast to clothing performance, effort to transform the fashion model to be more sustainable about the collective wellbeing is highlighted. As the participants with higher social desirability level have a more collectivist approach, they believe that both consumers and brands have social responsibility to change the current consumption habits.

5.1. Theoretical and Practical Implications

This research sought to discover the relationship between social desirability bias and engaging in circular fashion. While some scholars have researched consumer traits and behaviors in terms of circular economy in other industries (Edbring, Lehner and Mont, 2016, p. 6), there are also other studies about the correlation between these traits and the circular fashion in specific countries including Finland (Korsunova, Horn and Vainio, 2021), Sweden (Borg, Mont and Schoonover, 2020) and Korea (Kim, Hye and Lee, 2021). Although theoretical framework of circular economy has been defined by global organizations and governmental agencies, business strategies also have been shaped by fashion industry towards circular applications. This research attempts to

contribute to understanding consumer attitudes towards their consumption habits and support more circular future. Cultural acceptance of consumers has an important impact on CE applications (Jesus and Mendonça, 2018, p. 83) as also founded in the research. Thus, this study makes contribution to the existing literature about circular economy by evaluating the fashion context among Turkish consumers. In addition, as there are many studies in the literature that found existing correlation between personal characteristics and social desirability tendency (Havan and Kohút, 2019, p. 39), this research provides insight about these traits in respect of attitude towards the circular fashion.

This study, which focuses on the different consumer attitudes towards the social media messages about circular fashion is intended to contribute to theory by trying to bring another perspective to the field of communication of fashion brands. Therefore, it is believed that this exploratory study makes contribution to the field of social media communication of fashion brands by comprehensively covering the stages of the entire research design. Fashion brands which especially adopt sustainability approach and circular economy model can effectively evaluate the impact of social desirability tendency on engaging in circular fashion and have insight about their target consumers. They can benefit from the research findings to differentiate themselves from their competitors.

The interview results provide meaningful insights for the fashion brands engaging in circular economy applications. According to these findings it is critical to create green value for fashion brands to consider not only their environmental performance, but also quality attributes. Providing transparency in the production process and avoiding greenwashing activities would create stronger emotional bond for the consumers. Emotional brand attachment is key in terms of shaping consumer attitudes towards the brand and building consumer loyalty. Since consumers are skeptical about the sustainability claims of the fashion brands, it is critical to share authentic and consistent messages.

5.2.Limitations and Further Research

This study is limited due to the fact that the sample size is relatively small; only 44 short interviews were conducted. In further research, larger and more heterogeneous sample such as including other professions would represent the population better. In addition, social media posts of six global fashion brands which have different approaches towards circular economy were analyzed via semantic

network analysis in this study. To expand the scope of the paper, future research would be conducted with more brands that have various circular fashion practices. Additionally, in this research, four different themes were extracted from the interviews. Further research can focus on each concept separately. One of the themes of clothing performance, emotional brand attachment, greenwashing concerns, and openness to change in relation with social desirability bias and circular fashion can be investigated profoundly. In conjunction with these themes, personal traits of two groups with different social desirability level can be studied further.

The scope of the exploratory study is limited because it was conducted only in Turkey. Since the fashion brands taking place in this research are well-known all over the world, future research can be conducted in other countries. Turkish version of the short form of Marlowe-Crown Social Desirability Scale prepared by Ural and Özbiricikli (2006, pp. 394-402) was used in the survey. In addition to this form, other short versions of the Marlowe-Crown Social Desirability Scale which had been designed based on cultural differences can be used in further research in different cultures. Also results of the study need further investigation. To Caputo (2017, p. 9-10), online setting for this scale may result in more anonymous answers than face-to-face format as individuals beware responding in a socially desirable way. For this reason, further research would be validated with more suitable features for the online interview or conducted in a physical environment.

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APPENDICES

APPENDIX A

Survey Questions

Dear Participant,

In my master's thesis conducted in the Department of Marketing Communication and Public Relations of the Izmir University of Economics under the supervision of Doç. Dr. Selin Türkel, we are conducting academic research on circular fashion and social desirability bias. Filling out the questionnaire will make an important contribution to our scientific work. The data obtained will only be used within the scope of the research. The information you provide will be kept strictly confidential and will only be used as aggregated findings for academic purposes. Thank you in advance for taking the time to complete this survey.

Student Name:

Participant Name (does not have to be real name):

Survey No:

I. Listed below are a number of statements about your personal attitudes and characteristics. Read each expression carefully and indicate your level of agreement with each statement by ticking the appropriate answer next to it. Define yourself not as you want to be in the future, but as you see yourself now.

Evaluate the statements between 1-Strongly disagree, 2-Disagree, 3-Slightly disagree, 4- Slightly agree, 5-Agree, 6- Strongly agree.

Table 15. Marlowe-Crown Social Desirability Scale (Ural, and Özbirecikli, 2006)

Statement	Strongly disagree	Disagree	Slightly disagree	Slightly agree	Agree	Strongly agree
1. I have never intensely dislike anyone.	1	2	3	4	5	6
2. I am always careful about my manner of dress.		2	3	4	5	6
3. No matter who I'm talking to, I'm always a good listener.	1	2	3	4	5	6

Table 15 (Continued). Marlowe-Crown Social Desirability Scale (Ural, and Özbirecikli, 2006)

4. I'm always willing to admit it when I make a mistake.	1	2	3	4	5	6
5. I am always try to practice what I preach.	1	2	3	4	5	6
6. I would never think of letting someone else be punished for my wrongdoings.	1	2	3	4	5	6
7. I have never been irked when people expressed ideas very different from my own.	1	2	3	4	5	6

Table 16. Turkish Version of the Short Form of Marlowe-Crown Social Desirability Scale (Ural, and Özbirecikli, 2006)

The Short Form of Marlowe-Crown Social Desirability Scale (Turkish)

- 1. Asla birinden çok fazla nefret etmem.
- 2. Daima giyimime özen gösteririm.
- 3. Kiminle konuştuğumun hiç önemi yoktur, daima iyi bir dinleyiciyimdir.
- 4. Hata yaptığımda daima itiraf etmek isterim.
- 5.Başkalarına verdiğim öğütleri daima kendim de uygulamaya çalışırım.
- 6.Hatalarımdan dolayı başka birinin cezalandırılmasına seyirci kalmayı asla düşünmedim.
- 7.Diğer insanlar benimkinden çok farklı fikirler ileri sürdüğünde hiç canım sıkılmaz.

II. What is your gender?

A) Female B) Male C) Prefer not to answer

III. How old are you?

- A) 18-25
- B) 26-35
- C) 36-45
- D)46-55

- E) 56-65 E) 66 and
- E) 66 and over
- **IV.** What is your marital status?
- A) Single
- B) Married
- **V.** What is your level of education?
- A) No diploma
- B) Elementary school
- C) Junior high school
- D) Highschool diploma
- E) Bachelor's degree
- F) Master's degree and over
- VI. What is your occupation?
- A) Housewife
- B) Retired
- C) Student
- D) Worker
- E) Civil servant
- F) Executive (unit chef, unit manager, specialist etc.)
- G) Senior executive (general manager, coordinator, etc.)
- H) Faculty member
- I) Businessman
- J) Other (please specify)
- **VII.** Are you currently employed?
- A) Yes
- B) No
- VIII. What is your monthly personal income?
- A) 0-9000 TL
- B) 9001-15000 TL
- C) 15001-21000 TL

- D) 21001-27000 TL
- E) 27001-33000 TL
- F) 33001 and over
- **IX.** What is your monthly household income?
- A) 0-18000 TL
- B) 18001-30000 TL
- C) 30001-42000 TL
- D) 42001-54000 TL
- E) 54001-66000 TL
- F) 66001 and over
- **X.** How do you define your socioeconomic status?
- A) Lower income
- B) Lower middle income
- C) Middle income
- D) Upper middle income
- E) Upper income

APPENDIX B

Interview Questions

I will share with you some brand messages about circular fashion. Please indicate your feelings and thoughts regarding these messages.

1. We believe in buying better and wearing longer.



2. Fashion industry needs to change.



3. It (circular fashion) is a social responsibility.



4. We move towards circularity.



5. Collection is produced with organic cotton.



6. We produce garments that are built to last.



Please answer the following three questions regarding each message above.

- **1.** Please choose a color from the wheel that reflects the emotion of the message and give at least three reasons why you chose this color.
- **2.** Would you consider shopping from the brand that shares this message? Why/why not? Please explain.
- **3.** How do you define a person (other than you) who finds this message positive? Please explain with at least three adjectives.

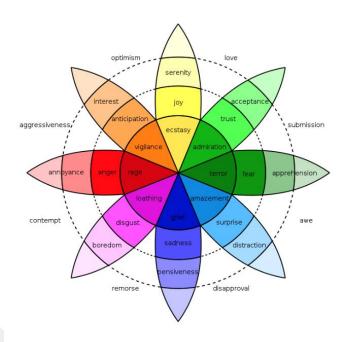


Figure 3. Plutchik's Wheel of Emotions (Tromp and Pechenizkiy, 2014)

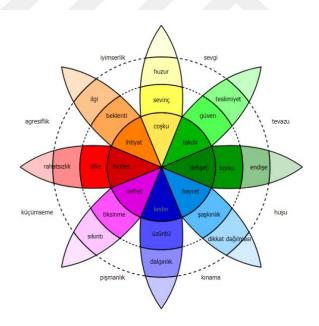


Figure 4. Plutchik's Wheel of Emotions (Turkish) (Uçan and Sezer, 2019)

APPENDIX C
Whole Lists of Findings Related to Semantic Network Analysis
Input Degree Centralization

Rank	Vertex	Value Id
1	126	1.0000 Fashion industry needs to change.
2	75	0.5979 We believe in buying better and wearing longer.
3	212	0.4742 It is responsibility.
4	182	0.4124 It is cradletocradle certified.
5	7	0.3814 It is an innovation.
6	1	0.3299 We move towards circularity.
7	280	0.3299 You are credited to buy something.
8	127	0.2990 Collection is produced with organic cotton.
9	164	0.2887 Wear worn.
10	193	0.2680 It is fully recyclable.
11	102	0.2577 Get involved.
12	301	0.2577 It is better for the soil?.
13	124	0.2371 Sustainability is essential.
14	237	0.2371 It is circularity.
15	26	0.2371 We produce garments that are built to last.
16	136	0.2371 We use renewable energy.
17	122	0.2165 We believe in circular fashion.
18	188	0.2165 Our partnerships are focused on climate.
19	90	0.2165 When you no longer need it, trade in.
20	207	0.2062 We can buy less.
21	74	0.2062 Pass it on to someone who will use it.
22	285	0.2062 Safe dyes and chemicals are used.
23	154	0.1959 We design for circularity.
24	144	0.1959 We reduce our fiber impact.
25	177	0.1856 We want every material can be safely reused.
26	18	0.1856 Wear it.

27	63	0.1753 We adopt new practices including reducing
carbon er	nissions.	
28	240	0.1649 It is a process to move towards a sustainable
future.		
29	334	0.1649 It is my cloth.
30	245	0.1546 The materials we use matter.
31	229	0.1546 We believe in quality of life.
32	54	0.1546 We make your clothes.
33	218	0.1546 It is fashion revolution.
34	98	0.1546 We are saving our home planet.
35	197	0.1546 Clothes are made to gather memories.
36	320	0.1546 Care for it.
37	317	0.1546 The issue is social fairness.
38	305	0.1546 Worker wellbeing positively impacts the supply
chain wo	rkers.	
39	151	0.1546 We never stop innovating.
40	283	0.1546 It is an act of healing the labor for a broader
change.		
41	58	0.1443 Our production is in Europe.
42	92	0.1443 Experts offer free repair.
43	319	0.1443 Repair it.
44	315	0.1443 Pieces are made in socially responsible factories.
45		
	299	0.1443 Worker wellbeing is being prioritized and
improved		0.1443 Worker wellbeing is being prioritized and
improved 46		0.1443 Worker wellbeing is being prioritized and0.1340 We make sustainable clothes.
1	l .	
46	l. 60	0.1340 We make sustainable clothes.
46 47	60 311	0.1340 We make sustainable clothes.0.1340 The future is circular.
46 47 48	60 311	0.1340 We make sustainable clothes.0.1340 The future is circular.
46 47 48 fuels.	60 311 304	0.1340 We make sustainable clothes.0.1340 The future is circular.0.1340 The main ingredient in our clothing is fossil
46 47 48 fuels. 49	60 311 304	 0.1340 We make sustainable clothes. 0.1340 The future is circular. 0.1340 The main ingredient in our clothing is fossil 0.1340 We are finding ways to use less water.
46 47 48 fuels. 49 50	60 311 304 143 141	 0.1340 We make sustainable clothes. 0.1340 The future is circular. 0.1340 The main ingredient in our clothing is fossil 0.1340 We are finding ways to use less water. 0.1340 We are restoring our resources.
46 47 48 fuels. 49 50 51	60 311 304 143 141 267	 0.1340 We make sustainable clothes. 0.1340 The future is circular. 0.1340 The main ingredient in our clothing is fossil 0.1340 We are finding ways to use less water. 0.1340 We are restoring our resources. 0.1340 Core materials are sustainably sourced.

55	162	0.1237 It eliminates the concept of waste.
56	39	0.1237 It is upcycled post consumer waste.
57	36	0.1237 Our goal is to source all of the materials more
sustainal	bly.	
58	282	0.1237 Find purpose.
59	211	0.1134 Wear your garment until the end.
60	101	0.1134 Find community.
61	100	0.1134 Protect the mother earth.
62	191	0.1134 We can make a big impact.
63	181	0.1134 We are producing in local factories.
64	159	0.1134 Clothes are made to gather stories.
65	158	0.1134 We limit use of the most essential resources in
the prod	uction pro	ocess.
66	313	0.1134 It should be accessible to all.
67	312	0.1134 It is product circularity.
68	318	0.1134 Buy used or new.
69	152	0.1134 We are improving cotton cultivation.
70	147	0.1134 We help factories become more energy efficient.
71	140	0.1134 Organic cotton uses less water than conventional
cotton.		
72	130	0.1134 Cradletocradle certified pieces are bought to the
market.		
73	246	0.1031 Our partnerships are focused on supporting local
commun	nities.	
74	224	0.1031 Waste less.
75	111	0.1031 A technology transforms textile waste into a new
material		
76	49	0.1031 It is world environment day.
77	93	0.1031 Extend the life of garment by repairing.
78	85	0.1031 We have a debt to pay back to the environment.
79	310	0.1031 The products are assessed according to the
sustainal	bility issu	es.
80	306	0.1031 We protect our water quality.
81	294	0.1031 It is better for farmers.

82	287	0.1031 Organic cotton does not use synthetic pesticides.
83	279	0.1031 Organic cotton saves CO2.?
84	67	0.1031 It is our climate commitment.
85	269	0.1031 Organic cotton saves energy.
86	266	0.1031 Clothing waste is transformed into fabric.
87	260	0.1031 There is so much waste that we can leverage.
88	251	0.0928 We adopt new industry practices including
reducing	waste.	
89	113	0.0928 It is made with recycled materials.
90	206	0.0928 Keep it minimal.
91	194	0.0928 Update old pieces to create new ones.
92	316	0.0928 A best thing we can do for the planet is reduce
overall co	onsumptio	on.
93	187	0.0928 We are taking steps to more sustainable
productio	n.	
94	45	0.0928 Cradletocradle Certified is sustainably produced.
95	86	0.0928 It is made with natural dyes.
96	166	0.0928 Support grassroots organizations and foundations.
96 97	166 80	0.0928 Support grassroots organizations and foundations.0.0928 Collection is vintage.
97	80 309	0.0928 Collection is vintage.
97 98	80 309	0.0928 Collection is vintage.
97 98 broader c	80 309 hange.	0.0928 Collection is vintage.0.0928 Suppliers are closely being worked with for a
97 98 broader cl	80 309 hange. 300	0.0928 Collection is vintage.0.0928 Suppliers are closely being worked with for a0.0928 We source more sustainable cotton.
97 98 broader cl 99 100	80 309 hange. 300 33	 0.0928 Collection is vintage. 0.0928 Suppliers are closely being worked with for a 0.0928 We source more sustainable cotton. 0.0928 We limit our environmental impact.
97 98 broader cl 99 100 101	80 309 hange. 300 33 30	 0.0928 Collection is vintage. 0.0928 Suppliers are closely being worked with for a 0.0928 We source more sustainable cotton. 0.0928 We limit our environmental impact. 0.0825 Wear longer.
97 98 broader cl 99 100 101 102	80 309 hange. 300 33 30 156	 0.0928 Collection is vintage. 0.0928 Suppliers are closely being worked with for a 0.0928 We source more sustainable cotton. 0.0928 We limit our environmental impact. 0.0825 Wear longer. 0.0825 We take step towards purposeful consumption.
97 98 broader cl 99 100 101 102 103	80 309 hange. 300 33 30 156 116	 0.0928 Collection is vintage. 0.0928 Suppliers are closely being worked with for a 0.0928 We source more sustainable cotton. 0.0928 We limit our environmental impact. 0.0825 Wear longer. 0.0825 We take step towards purposeful consumption. 0.0825 Circularity is to extend the life of products.
97 98 broader cl 99 100 101 102 103 104	80 309 hange. 300 33 30 156 116 233	 0.0928 Collection is vintage. 0.0928 Suppliers are closely being worked with for a 0.0928 We source more sustainable cotton. 0.0928 We limit our environmental impact. 0.0825 Wear longer. 0.0825 We take step towards purposeful consumption. 0.0825 Circularity is to extend the life of products. 0.0825 Most of the clothing material is plastic.
97 98 broader cl 99 100 101 102 103 104 105	80 309 hange. 300 33 30 156 116 233 221	 0.0928 Collection is vintage. 0.0928 Suppliers are closely being worked with for a 0.0928 We source more sustainable cotton. 0.0928 We limit our environmental impact. 0.0825 Wear longer. 0.0825 We take step towards purposeful consumption. 0.0825 Circularity is to extend the life of products. 0.0825 Most of the clothing material is plastic. 0.0825 We're seeking sustainable fiber innovations.
97 98 broader el 99 100 101 102 103 104 105 106	80 309 hange. 300 33 30 156 116 233 221	 0.0928 Collection is vintage. 0.0928 Suppliers are closely being worked with for a 0.0928 We source more sustainable cotton. 0.0928 We limit our environmental impact. 0.0825 Wear longer. 0.0825 We take step towards purposeful consumption. 0.0825 Circularity is to extend the life of products. 0.0825 Most of the clothing material is plastic. 0.0825 We're seeking sustainable fiber innovations.
97 98 broader el 99 100 101 102 103 104 105 106 policy.	80 309 hange. 300 33 30 156 116 233 221 219	 0.0928 Collection is vintage. 0.0928 Suppliers are closely being worked with for a 0.0928 We source more sustainable cotton. 0.0928 We limit our environmental impact. 0.0825 Wear longer. 0.0825 We take step towards purposeful consumption. 0.0825 Circularity is to extend the life of products. 0.0825 Most of the clothing material is plastic. 0.0825 We're seeking sustainable fiber innovations. 0.0825 The fiber is obtained in line with the product
97 98 broader el 99 100 101 102 103 104 105 106 policy.	80 309 hange. 300 33 30 156 116 233 221 219	 0.0928 Collection is vintage. 0.0928 Suppliers are closely being worked with for a 0.0928 We source more sustainable cotton. 0.0928 We limit our environmental impact. 0.0825 Wear longer. 0.0825 We take step towards purposeful consumption. 0.0825 Circularity is to extend the life of products. 0.0825 Most of the clothing material is plastic. 0.0825 We're seeking sustainable fiber innovations. 0.0825 The fiber is obtained in line with the product

109	199	0.0825 We're hosting workshops to show you how to
repair.		
110	42	0.0825 It is second hand.
111	339	0.0825 If we don't rain in oil and gas, what's at stake is
the future	e of huma	nity.
112	338	0.0825 It's a win for mother earth.
113	314	0.0825 A best thing for the planet is keep stuff in use
longer.		
114	302	0.0825 We're designing for circularity.
115	298	0.0825 We want our materials to live a long life and a
future.		
116	293	0.0825 Our factory base is A/B rated.
117	71	0.0825 We make better clothes.
118	253	0.0722 We focus on programs and partnerships.
119	250	0.0722 Most of our cotton come from sustainable
sources.		
120	248	0.0722 We sort your garment when you no longer need
it.		
it. 121	29	0.0722 It is a clothing to go the distance.
	29 235	0.0722 It is a clothing to go the distance.0.0722 Keep clothes in play as long as possible.
121		
121 122	235	0.0722 Keep clothes in play as long as possible.
121 122 123	2352276	0.0722 Keep clothes in play as long as possible.0.0722 Bring your clothes back to shops.
121 122 123 124	2352276	0.0722 Keep clothes in play as long as possible.0.0722 Bring your clothes back to shops.
121 122 123 124 textile wa	235 227 6 aste.	 0.0722 Keep clothes in play as long as possible. 0.0722 Bring your clothes back to shops. 0.0722 A technology dissolves cotton cellulose from 0.0722 NGO insights guide the creation of circular
121 122 123 124 textile wa	235 227 6 aste. 336	 0.0722 Keep clothes in play as long as possible. 0.0722 Bring your clothes back to shops. 0.0722 A technology dissolves cotton cellulose from 0.0722 NGO insights guide the creation of circular
121 122 123 124 textile wa 125 economy	235 227 6 aste. 336 guideline	 0.0722 Keep clothes in play as long as possible. 0.0722 Bring your clothes back to shops. 0.0722 A technology dissolves cotton cellulose from 0.0722 NGO insights guide the creation of circular es.
121 122 123 124 textile wa 125 economy	235 227 6 aste. 336 guideline 200	 0.0722 Keep clothes in play as long as possible. 0.0722 Bring your clothes back to shops. 0.0722 A technology dissolves cotton cellulose from 0.0722 NGO insights guide the creation of circular es. 0.0722 Take action.
121 122 123 124 textile wa 125 economy 126 127 128	235 227 6 aste. 336 guideline 200 23 47	 0.0722 Keep clothes in play as long as possible. 0.0722 Bring your clothes back to shops. 0.0722 A technology dissolves cotton cellulose from 0.0722 NGO insights guide the creation of circular es. 0.0722 Take action. 0.0722 Throw in your discarded clothes.
121 122 123 124 textile wa 125 economy 126 127 128	235 227 6 aste. 336 guideline 200 23 47	 0.0722 Keep clothes in play as long as possible. 0.0722 Bring your clothes back to shops. 0.0722 A technology dissolves cotton cellulose from 0.0722 NGO insights guide the creation of circular ess. 0.0722 Take action. 0.0722 Throw in your discarded clothes. 0.0722 Circular economy is a big opportunity for the
121 122 123 124 textile wa 125 economy 126 127 128 sustainab	235 227 6 aste. 336 guideline 200 23 47 de fashion 337	 0.0722 Keep clothes in play as long as possible. 0.0722 Bring your clothes back to shops. 0.0722 A technology dissolves cotton cellulose from 0.0722 NGO insights guide the creation of circular ess. 0.0722 Take action. 0.0722 Throw in your discarded clothes. 0.0722 Circular economy is a big opportunity for the industry.
121 122 123 124 textile wa 125 economy 126 127 128 sustainab	235 227 6 aste. 336 guideline 200 23 47 de fashion 337	0.0722 Keep clothes in play as long as possible. 0.0722 Bring your clothes back to shops. 0.0722 A technology dissolves cotton cellulose from 0.0722 NGO insights guide the creation of circular ess. 0.0722 Take action. 0.0722 Throw in your discarded clothes. 0.0722 Circular economy is a big opportunity for the industry. 0.0722 This end-of-season collection is reworked before
121 122 123 124 textile wa 125 economy 126 127 128 sustainab 129 being ma	235 227 6 aste. 336 guideline 200 23 47 de fashion 337 rked dow	0.0722 Keep clothes in play as long as possible. 0.0722 Bring your clothes back to shops. 0.0722 A technology dissolves cotton cellulose from 0.0722 NGO insights guide the creation of circular ess. 0.0722 Take action. 0.0722 Throw in your discarded clothes. 0.0722 Circular economy is a big opportunity for the industry. 0.0722 This end-of-season collection is reworked before in in value.

133	295	0.0722 We explore the possibilities presented by
innovatio	ns.	
134	288	0.0722 Each time the clothing is reused, waste
accumula	ted will b	e reduced.
135	252	0.0619 We update operations for efficiency.
136	125	0.0619 Reworking the unique fabric takes effort and
time.		
137	61	0.0619 We are taking wear forever to a whole new level.
138	3	0.0619 It's a durable piece.
139	307	0.0619 It is the same quality product at a lower cost.
140	55	0.0619 In conversion cotton is grown in the transition
from conv	ventional	to certified organic cotton.
141	308	0.0619 Make fibers that will get woven into the garment.
142	176	0.0619 The iconic parts are removed for recycling.
143	333	0.0619 The foundation works with institutions to
mobilize	solutions.	
144	330	0.0619 Receive the gift card.
145	284	0.0619 Make room.
146	19	0.0619 They are innovative programs.
147	296	0.0619 Our goal is to reach all the communities.
148	286	0.0619 This collection is sourced from textile associations.
149	292	0.0619 It is an act of healing the resources that make
the garme	ent.	
150	35	0.0619 We take your garment back when you no longer
need it.		
151	275	0.0619 Sorter insights guide the creation of circular
economy	guideline	s.
152	128	0.0619 It is thrift shop.
153	256	0.0619 It gives a spirit that's a piece that's full of repairs.
154	28	0.0515 It's a timeless piece.
155	281	0.0515 It has a spirit.
156	192	0.0515 Our cotton came from sustainable sources.
157	335	0.0515 A small closet keeps on track with the self-
imposed o	clothing c	ontract.

158	10	0.0515 This partnership represents an advancement in
recycling.		
159	165	0.0515 Become a volunteer.
160	291	0.0515 Uncovered actions that businesses can take on
a governm	nent leve	el to change the planet.
161	145	0.0515 We're reducing our shipping carbon footprint
through pr	rocess ac	daptations.
162	303	0.0515 The naked plastic product looks like a pellet.
163	277	0.0515 Less than one percent of the world's cotton is
organic.		
164	276	0.0515 No other fabric ages as well as denim.
165	272	0.0515 A little stitch goes a long way.
166	271	0.0515 We offer a special product while supplies last.
167	270	0.0515 It is sustainably made.
168	268	0.0515 Each piece is graded by hand.
169	265	0.0515 The new material is made from pulp.
170	263	0.0515 Collector insights guide the creation of circular
economy g	guidelin	es.
171	262	0.0515 The foundation works with policymakers to
mobilize s	solutions	S.
172	255	0.0412 Turn a very low value item into a durable good
that could	last.	
173	249	0.0412 Our biodiversity plan has key initiatives.
174	247	0.0412 There are many garments most of which end up
in landfill.		
175	123	0.0412 We set ambitious sustainability targets.
176	321	0.0412 It is a new cotton project.
177	243	0.0412 We search for processes to limit our impact.
178	239	0.0412 Manufacturing insights guide the creation of
circular ec	conomy	guidelines.
179	238	0.0412 The foundation works with academia to mobilize
solutions.		
180	117	0.0412 Welcome every stage of life.

181	214	0.0412 We become more sustainable with better
processe	s and prod	ucts.
182	38	0.0412 Uncovered actions that businesses can take on a
corporate	e level to c	hange the planet.
183	103	0.0412 Our garment is made from recycled polyester.
184	51	0.0412 An organization works to source organically.
185	203	0.0412 We recycle discarded fishing nets.
186	196	0.0412 We strive towards a sustainable future.
187	190	0.0412 It means buying more conscious when it comes
to quality	y.	
188	91	0.0412 Out with the old and in with the new.
189	43	0.0412 Cradletocradle? certified products are a key part
of our pr	oduct catal	logue.
190	148	0.0412 We host workshops for our upcycled collection.
191	297	0.0412 Ethylene is the primary material for most
plastics.		
192	273	0.0412 Big opportunity was for collecting for this noble
polymer.		
193	138	0.0412 Feel good in the second hand.
194	160	0.0412 Our tailor shops customize your old favorites.
195	289	0.0412 Buying used is always the best for the planet.
196	137	0.0412 We produce in our factory.
197	261	0.0412 When garments get old, wear while gardening,
hiking ar	nd surfing.	
198	259	0.0412 Make the world a better place.
199	258	0.0412 Our life is directly tied to how we treat to the
land.		
200	232	0.0309 Our partners repurpose nets into new materials.
201	244	0.0309 We give an used textile a new life.
202	241	0.0309 The remains of components are separated.
203	155	0.0309 Learn more about our sustainability initiatives.
204	132	0.0309 Our partners train farmers in organic practices.
205	231	0.0309 Our activism is inherent in who we are.

206	168	0.0309 Our partner collects discarded fishing nets for
recycling.		
207	226	0.0309 An organization works with artisans from
underserved	l communities.	
208	225	0.0309 It feels good to do good.
209	223	0.0309 When it is made to last, we consume less.
210	222	0.0309 Our sustainability begins as an active
resourcefulr	ness.	
211	220	0.0309 Our partners link farmers with fair-paying
market parti	ners for their pro	ducts.
212	216	0.0309 Organic cotton is more sustainable.
213	331	0.0309 It is a new step in social responsibility.
214	108	0.0309 Collection is designed with its whole life cycle
and future.		
215	236	0.0309 Every piece of clothing has a purpose.
216	215	0.0309 We want to be better for our environment.
217	213	0.0309 Collection is eco-friendly.
218	118	0.0309 The end of your clothes doesn't mean the end.
219	217	0.0309 Pass knowledge to serve new farmers.?
220	24	0.0309 Expand the lifecycle of your clothes.
221	230	0.0309 It's easier to find the retro garment on the wish
list.		
222	323	0.0309 There's no limit what garments can do.
223	264	0.0309 The aim is to manufacture garments with the
high standar	rds.	
224	290	0.0309 Plastic comes from oil and gas.
225	31	0.0309 Collection is with a lifetime warranty.
226	329	0.0309 Rewear the favourite clothes.
227	209	0.0309 Retail insights guide the creation of circular
economy gu	idelines.	
228	332	0.0309 Our industry can learn how to make sustainable
choices.		
229	34	0.0309 Shop second hand.

230	208	0.0309 The foundation works with businesses to
mobilize so	olutions.	
231	274	0.0309 Uncovered actions that businesses can take on
an individu	al level to chang	ge the planet.
232	73	0.0309 It's important to create consciously.
233	278	0.0309 Core materials are cotton, polyester, and man-
made cellu	losics.	
234	27	0.0206 We throw away our clothes.
235	328	0.0206 Four seasons became the inspiration for the
project.		
236	169	0.0206 Most synthetic clothing create the plastic based
fibers we w	ear.	
237	204	0.0206 Majority of our clothes come at the cost of
pollution.		
238	205	0.0206 We have time to do things rather than endless
loads of lau	ındry.	
239	129	0.0206 Earth is the foundation of sustainable items
offering loa	ngevity and recyc	clability.
240	210	0.0206 The fibres are decoloured.
241	234	0.0206 Gas and oil industry threatens the clothing
industry.		
242	201	0.0206 Do something about the environment.
243	202	0.0206 Empower a new generation of artisans.
244	195	0.0206 Second hand gives new life to old garment.
245	186	0.0206 The focus point is animal welfare.
246	185	0.0206 Our partners train farmers in organic practices.
247	183	0.0206 Energy is the foundation of sustainable items
offering loa	ngevity and recyc	clability.
248	180	0.0206 It is the responsible initiative of recycled cotton.
249	89	0.0206 Clothes are worn for generations.
250	184	0.0206 Organic cotton feel good on your skin.
251	175	0.0206 The aim is to create garments with the finest
materials.		

252	174	0.0206 Brand insights guide the creation of circular
economy g	guidelines.	
253	173	0.0206 The Foundation accelerates the transition to a
circular ec	onomy.	
254	171	0.0206 Majority of clothes come at the cost of slave
labor.		
255	53	0.0206 Being transparent with the stakeholders is our
core value.		
256	163	0.0206 Get involved grassroots groups to meet the
climate cri	sis.	
257	37	0.0206 We share our sustainability report.?
258	189	0.0206 Cotton is our most used material.
259	9	0.0206 It is made from recycled carbon emissions.
260	179	0.0206 Think responsible.
261	178	0.0206 We understand the sustainability challenges of
the fashion	industry.	
262	257	0.0206 Find events in your area.
263	65	0.0206 We introduce the give better guide.
264	120	0.0103 Help people that live on planet.
265	153	0.0103 Explore the passion for circular fashion through
upcycled d	lesigns.	
266	324	0.0103 Buy clothes built to last.
267	62	0.0103 Sustainability is with our bio cotton clothes.
268	242	0.0103 It is used in polyester yarn.
269	57	0.0103 You don't have to choose between style and
sustainabil	ity.	
270	135	0.0103 Garments are made from European linen.
271	146	0.0103 They're made to last.
272	109	0.0103 Academic insights guide the creation of circular
economy g	guidelines.	
273	150	0.0103 Hopes and aspirations become wearable realities.
274	161	0.0103 It is built better today.
275	133	0.0103 Worker is in the finishing department.
276	76	0.0103 We've curated our most sustainable collection.

277	149	0.0103 The fashion industry plays a part in climate
crisis.		
278	99	0.0103 Our collaboration makes each piece unique.
279	327	0.0103 Our garments are fair trade certified sewn.
280	325	0.0103 Combining conscious approach with classic
elements is	the way to rein	nagine.
281	52	0.0103 Workers are in the process of making clothes.
282	139	0.0103 There are many steps to use organic cotton and
less water.		
283	32	0.0103 Reduce the fashion footprint.
284	112	0.0103 Capturing carbon emissions limits the use and
direct relea	se of fossil reso	urces.
285	167	0.0103 During the era of activism, the traditional fabric
became a to	ool of protest.	
286	170	0.0103 Fossil fuels used to make clothing accelerate
the environ	mental crisis.	
287	134	0.0103 Farmers are nurturing the plants.
288	157	0.0103 These natural dyes are made with plants.
289	198	0.0103 Clean out the closet.
290	326	0.0103 Consciously chosen materials boost the good
vibes.		
291	110	0.0103 It is a platform to develop new materials and
technologie	es.	
292	131	0.0103 There is a difference between organic and
convention	al cotton.	
293	142	0.0103 Wear often.
294	4	0.0103 Sustainability Innovation Hub supports partners
to scaleup t	heir initiatives.	
295	56	0.0103 Wardrobe choice is sustainable.
296	41	0.0103 Comfort is with our bio cotton clothes.
297	172	0.0103 The pandemic presents an opportunity to connect
with subjec	ets.	
298	121	0.0103 We define more sustainable materials.
299	119	0.0103 It is mindfully made.

300	11	0.0103 It is an innovative solution to turn materials into
a textile	fiber.	
301	114	0.0103 It is a bio material made by microorganisms.
302	115	0.0103 Make it last.
303	5	0.0000 The used garments are recovered.
304	48	0.0000 Vintage is trendy.
305	66	0.0000 They are crafted of cottonized hemp.
306	77	0.0000 We are working to change consumption habits.
307	21	0.0000 Transparency is a key in designs.
308	2	0.0000 Redesign is a project by the foundation.
309	83	0.0000 It's earth day.
310	105	0.0000 The clothing industry has a plastic problem.
311	78	0.0000 Approach the fashion industry with a different
lens.		
312	68	0.0000 Wash less.
313	84	0.0000 Botanical dyes are used.
314	69	0.0000 We are aware of the dark side of fashion.
315	12	0.0000 Sustainability Innovation Hub makes our products
more sus	stainable.	
316	95	0.0000 It looks as good as it did decades ago.
317	8	0.0000 A technology enables the conversion of carbon
317 from was	8	0.0000 A technology enables the conversion of carbon
	8	0.0000 A technology enables the conversion of carbon0.0000 It is built to reduce harm.
from was	8 ste.	. ,
from was 318 319	8 ste. 97 44	0.0000 It is built to reduce harm.
from was 318 319	8 ste. 97 44	0.0000 It is built to reduce harm.0.0000 Water is the foundation of sustainable items
from was 318 319 offering 320	8 ste. 97 44 longevity 64	0.0000 It is built to reduce harm. 0.0000 Water is the foundation of sustainable items and recyclability.
from was 318 319 offering 320	8 ste. 97 44 longevity 64	0.0000 It is built to reduce harm. 0.0000 Water is the foundation of sustainable items and recyclability. 0.0000 Utilize love of nature with creations of
from was 318 319 offering 320 sustainab	8 ste. 97 44 longevity 64 pility and o	0.0000 It is built to reduce harm. 0.0000 Water is the foundation of sustainable items and recyclability. 0.0000 Utilize love of nature with creations of circularity.
from was 318 319 offering 320 sustainab 321	8 ste. 97 44 longevity 64 pility and 6	0.0000 It is built to reduce harm. 0.0000 Water is the foundation of sustainable items and recyclability. 0.0000 Utilize love of nature with creations of circularity. 0.0000 It's world water day.
from was 318 319 offering 320 sustainal 321 322	8 ste. 97 44 longevity 64 pility and 6 87 13	0.0000 It is built to reduce harm. 0.0000 Water is the foundation of sustainable items and recyclability. 0.0000 Utilize love of nature with creations of circularity. 0.0000 It's world water day. 0.0000 Wear recycled fibres.
from was 318 319 offering 320 sustainal 321 322 323	8 ste. 97 44 longevity 64 pility and 6 87 13 94	0.0000 It is built to reduce harm. 0.0000 Water is the foundation of sustainable items and recyclability. 0.0000 Utilize love of nature with creations of circularity. 0.0000 It's world water day. 0.0000 Wear recycled fibres. 0.0000 We give employees some paid time off.
from was 318 319 offering 320 sustainal 321 322 323 324	8 ste. 97 44 longevity 64 pility and 6 87 13 94 82	0.0000 It is built to reduce harm. 0.0000 Water is the foundation of sustainable items and recyclability. 0.0000 Utilize love of nature with creations of circularity. 0.0000 It's world water day. 0.0000 Wear recycled fibres. 0.0000 We give employees some paid time off. 0.0000 Be always upfront about social issues.

	328	25	0.000	0 The	designer invents new material by using
was	te.				
	329	96	0.0000	Trends	don't last a lifetime.
	330	20	0.0000	Waste i	s the starting point for art piece.
	331	79	0.0000	Collect	on is inspired by mother nature.
	332	106	0.0000	Plastic	s are essential for durable clothing.
	333	22	0.0	000 E	ach clothing is made in the sustainable
Crac	dletoCra	dle Certified? fa	bric.		
	334	15	0.0000	Experts	are bringing new life to old garments.
	335	46	0.0000	Circula	r fashion looks so good.
	336	16	0.0000	Share it	
	337	72	0.0000	Better s	tarts with how they're made.
	338	17	0.0000	They ar	e made from air carbon.
	339	70	0.0000	Vintage	collection is made using upcycled.
					-
Sun	n (all val	ues):	24.77	32	

Output Degree Centralization

Rank	Vertex	Value Id
1	126	1.0000 Fashion industry needs to change.
2	75	0.9623 We believe in buying better and wearing longer.
3	40	0.7547 We make the fashion industry more circular.
4	212	0.6981 It is responsibility.
5	26	0.6792 We produce garments that are built to last.
6	35	0.6415 We take your garment back when you no longer
need it.		
7	127	0.5849 Collection is produced with organic cotton.
8	1	0.5472 We move towards circularity.
9	67	0.5472 It is our climate commitment.
10	162	0.4717 It eliminates the concept of waste.
11	63	0.4528 We adopt new practices including reducing
carbon em	issions.	

choices. 13 36 0.4528 Our goal is to source all of the materials more sustainably. sustainably. 14 116 0.4340 Circularity is to extend the life of products. 15 108 0.3962 Collection is designed with its whole life cycle and future. 16 99 0.3962 Our collaboration makes each piece unique. 17 77 0.3962 We are working to change consumption habits. 18 124 0.3774 Sustainability is essential. 19 237 0.3774 We share our sustainability report.? 20 37 0.3774 We share our sustainability report.? 21 248 0.3585 We can buy less. 23 196 0.3585 We can buy less. 23 196 0.3585 We are worn. 24 164 0.3585 Wear worn. 25 18 0.3585 Wear worn. 26 58 0.3396 Our production is in Europe. 27 188 0.3595 Wear	12	50	0.4528 We want our customers to make sustainable
sustainably. 14	choices.		
14 116 0.4340 Circularity is to extend the life of products. 15 108 0.3962 Collection is designed with its whole life cycle and future. 16 99 0.3962 Our collaboration makes each piece unique. 17 77 0.3962 We are working to change consumption habits. 18 124 0.3774 Sustainability is essential. 19 237 0.3774 It is circularity. 20 37 0.3774 We share our sustainability report.? 21 248 0.3585 We sort your garment when you no longer need it. 22 207 0.3585 We sort your garment when you no longer need it. 23 196 0.3585 We strive towards a sustainable future. 24 164 0.3585 Wear worn. 25 18 0.3585 Wear worn. 26 58 0.3396 Our partnerships are focused on climate. 28 39 0.3396 It is upcycled post consumer waste. 29 76 0.3996 We'v	13	36	0.4528 Our goal is to source all of the materials more
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25 18 0.3585 Wear it. 26 58 0.3396 Our production is in Europe. 27 188 0.3396 Our partnerships are focused on climate. 28 39 0.3396 It is upcycled post consumer waste. 29 76 0.3396 We've curated our most sustainable collection. 30 47 0.3208 Circular economy is a big opportunity for the sustainable fashion industry. 31 61 0.3019 We are taking wear forever to a whole new level. 32 193 0.3019 It is fully recyclable. 33 182 0.3019 It is cradletocradle certified. 34 86 0.3019 It is made with natural dyes. 35 151 0.3019 We never stop innovating. 36 228 0.2830 Recycling is really important. 37 23 0.2830 Throw in your discarded clothes. 38 85 0.2830 We have a debt to pay back to the environment. 39 33 0.2830 We limit our environmental impact.	23	196	0.3585 We strive towards a sustainable future.
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27 188 0.3396 Our partnerships are focused on climate. 28 39 0.3396 It is upcycled post consumer waste. 29 76 0.3396 We've curated our most sustainable collection. 30 47 0.3208 Circular economy is a big opportunity for the sustainable fashion industry. 31 61 0.3019 We are taking wear forever to a whole new level. 32 193 0.3019 It is fully recyclable. 33 182 0.3019 It is cradletocradle certified. 34 86 0.3019 It is made with natural dyes. 35 151 0.3019 We never stop innovating. 36 228 0.2830 Recycling is really important. 37 23 0.2830 Throw in your discarded clothes. 38 85 0.2830 We have a debt to pay back to the environment. 39 33 0.2830 We limit our environmental impact.	25	18	0.3585 Wear it.
28 39 0.3396 It is upcycled post consumer waste. 29 76 0.3396 We've curated our most sustainable collection. 30 47 0.3208 Circular economy is a big opportunity for the sustainable fashion industry. 31 61 0.3019 We are taking wear forever to a whole new level. 32 193 0.3019 It is fully recyclable. 33 182 0.3019 It is cradletocradle certified. 34 86 0.3019 It is made with natural dyes. 35 151 0.3019 We never stop innovating. 36 228 0.2830 Recycling is really important. 37 23 0.2830 Throw in your discarded clothes. 38 85 0.2830 We have a debt to pay back to the environment. 39 33 0.2830 We limit our environmental impact.	26	58	0.3396 Our production is in Europe.
29 76 0.3396 We've curated our most sustainable collection. 30 47 0.3208 Circular economy is a big opportunity for the sustainable fashion industry. 31 61 0.3019 We are taking wear forever to a whole new level. 32 193 0.3019 It is fully recyclable. 33 182 0.3019 It is cradletocradle certified. 34 86 0.3019 It is made with natural dyes. 35 151 0.3019 We never stop innovating. 36 228 0.2830 Recycling is really important. 37 23 0.2830 Throw in your discarded clothes. 38 85 0.2830 We have a debt to pay back to the environment. 39 33 0.2830 We limit our environmental impact.	27	188	0.3396 Our partnerships are focused on climate.
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32 193 0.3019 It is fully recyclable. 33 182 0.3019 It is cradletocradle certified. 34 86 0.3019 It is made with natural dyes. 35 151 0.3019 We never stop innovating. 36 228 0.2830 Recycling is really important. 37 23 0.2830 Throw in your discarded clothes. 38 85 0.2830 We have a debt to pay back to the environment. 39 33 0.2830 We limit our environmental impact.	sustainab	le fashio	on industry.
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34 86 0.3019 It is made with natural dyes. 35 151 0.3019 We never stop innovating. 36 228 0.2830 Recycling is really important. 37 23 0.2830 Throw in your discarded clothes. 38 85 0.2830 We have a debt to pay back to the environment. 39 33 0.2830 We limit our environmental impact.	32	193	0.3019 It is fully recyclable.
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37 23 0.2830 Throw in your discarded clothes. 38 85 0.2830 We have a debt to pay back to the environment. 39 33 0.2830 We limit our environmental impact.	35	151	0.3019 We never stop innovating.
38 85 0.2830 We have a debt to pay back to the environment. 39 33 0.2830 We limit our environmental impact.	36	228	0.2830 Recycling is really important.
39 33 0.2830 We limit our environmental impact.	37	23	0.2830 Throw in your discarded clothes.
•	38	85	0.2830 We have a debt to pay back to the environment.
40 107 0.2642 Smaller spaces help consuming less.	39	33	0.2830 We limit our environmental impact.
	40	107	0.2642 Smaller spaces help consuming less.

41	105	0.2642 The clothing industry has a plastic problem.
42	45	0.2642 Cradletocradle Certified is sustainably produced.
43	289	0.2642 Buying used is always the best for the planet.
44	280	0.2642 You are credited to buy something.
45	244	0.2453 We give an used textile a new life.
46	28	0.2453 It's a timeless piece.
47	227	0.2453 Bring your clothes back to shops.
48	53	0.2453 Being transparent with the stakeholders is our
core value	e.	
49	90	0.2453 When you no longer need it, trade in.
50	172	0.2453 The pandemic presents an opportunity to connect
with subje	ects.	
51	83	0.2453 It's earth day.
52	122	0.2264 We believe in circular fashion.
53	60	0.2264 We make sustainable clothes.
54	59	0.2264 Feel green.
55	225	0.2264 It feels good to do good.
56	100	0.2264 Protect the mother earth.
57	24	0.2264 Expand the lifecycle of your clothes.
58	81	0.2264 We are building a sustainable future.
59	307	0.2264 It is the same quality product at a lower cost.
60	301	0.2264 It is better for the soil?.
61	141	0.2264 We are restoring our resources.
62	136	0.2264 We use renewable energy.
63	245	0.2075 The materials we use matter.
64	55	0.2075 In conversion cotton is grown in the transition
from conv	ventional to certi	ified organic cotton.
65	51	0.2075 An organization works to source organically.
66	98	0.2075 We are saving our home planet.
67	176	0.2075 The iconic parts are removed for recycling.
68	5	0.2075 The used garments are recovered.
69	314	0.2075 A best thing for the planet is keep stuff in use
longer.		

70	38	0.2075 Uncovered actions that businesses can take on a			
corporate	corporate level to change the planet.				
71	74	0.2075 Pass it on to someone who will use it.			
72	144	0.2075 We reduce our fiber impact.			
73	140	0.2075 Organic cotton uses less water than conventional			
cotton.					
74	138	0.2075 Feel good in the second hand.			
75	3	0.1887 It's a durable piece.			
76	219	0.1887 The fiber is obtained in line with the product			
policy.					
77	49	0.1887 It is world environment day.			
78	92	0.1887 Experts offer free repair.			
79	316	0.1887 A best thing we can do for the planet is reduce			
overall co	onsumption	1.			
80	159	0.1887 Clothes are made to gather stories.			
81	158	0.1887 We limit use of the most essential resources in			
the produ	ction proc	ess.			
82	156	0.1887 We take step towards purposeful consumption.			
83	310	0.1887 The products are assessed according to the			
sustainab	ility issues	i.			
84	147	0.1887 We help factories become more energy efficient.			
85	143	0.1887 We are finding ways to use less water.			
86	137	0.1887 We produce in our factory.			
87	131	0.1887 There is a difference between organic and			
conventio	onal cotton				
88	130	0.1887 Cradletocradle certified pieces are bought to the			
market.					
89	210	0.1698 The fibres are decoloured.			
90	184	0.1698 Organic cotton feel good on your skin.			
91	177	0.1698 We want every material can be safely reused.			
92	163	0.1698 Get involved in grassroots groups to meet the			
climate cı	risis.				
93	312	0.1698 It is product circularity.			
94	154	0.1698 We design for circularity.			

95	299	0.1698 Worker wellbeing is being prioritized and
improved.	•	
96	267	0.1698 Core materials are sustainably sourced.
97	254	0.1509 It is our consumption commitment.
98	125	0.1509 Reworking the unique fabric takes effort and
time.		
99	251	0.1509 We adopt new industry practices including
reducing v	waste.	
100	30	0.1509 Wear longer.
101	241	0.1509 The remains of components are separated.
102	224	0.1509 Waste less.
103	216	0.1509 Organic cotton is more sustainable.
104	106	0.1509 Plastics are essential for durable clothing.
105	104	0.1509 When we repair, we can find joy in the stuff we
already ov	wn.	
106	200	0.1509 Take action.
107	199	0.1509 We're hosting workshops to show you how to
repair.		
108	166	0.1509 Support grassroots organizations and foundations.
109	10	0.1509 This partnership represents an advancement in
recycling.		
110	318	0.1509 Buy used or new.
111	152	0.1509 We are improving cotton cultivation.
112	298	0.1509 We want our materials to live a long life and a
future.		
113	149	0.1509 The fashion industry plays a part in climate
crisis.		
114	71	0.1509 We make better clothes.
115	69	0.1509 We are aware of the dark side of fashion.
116	287	0.1321 Organic cotton does not use synthetic pesticides.
117	249	0.1321 Our biodiversity plan has key initiatives.
118	233	0.1321 Most of the clothing material is plastic.
119	265	0.1321 The new material is made from pulp.
120	96	0.1321 Trends don't last a lifetime.

121	95	0.1321 It looks as good as it did decades ago.
122	93	0.1321 Extend the life of garment by repairing.
123	43	0.1321 Cradletocradle? certified products are a key part
of our pro	duct catalogue.	
124	170	0.1321 Fossil fuels used to make clothing accelerate
the enviro	nmental crisis.	
125	165	0.1321 Become a volunteer.
126	148	0.1321 We host workshops for our upcycled collection.
127	294	0.1321 It is better for farmers.
128	279	0.1321 Organic cotton saves CO2.?
129	269	0.1321 Organic cotton saves energy.
130	2	0.1321 Redesign is a project by the foundation.
131	132	0.1321 Our partners train farmers in organic practices.
132	7	0.1132 It is an innovation.
133	123	0.1132 We set ambitious sustainability targets.
134	246	0.1132 Our partnerships are focused on supporting local
communit	ies.	
135	121	0.1132 We define more sustainable materials.
136	234	0.1132 Gas and oil industry threatens the clothing
industry.		
137	232	0.1132 Our partners repurpose nets into new materials.
138	221	0.1132 We're seeking sustainable fiber innovations.
139	109	0.1132 Academic insights guide the creation of circular
economy g	guidelines.	
140	319	0.1132 Repair it.
141	103	0.1132 Our garment is made from recycled polyester.
142	102	0.1132 Get involved.
143	204	0.1132 Majority of our clothes come at the cost of
pollution.		
144	101	0.1132 Find community.
145	203	0.1132 We recycle discarded fishing nets.
146	278	0.1132 Core materials are cotton, polyester, and man-
made cellu	ılosics.	
147	48	0.1132 Vintage is trendy.

148	189	0.1132 Cotton is our most used material.		
149	171	0.1132 Majority of clothes come at the cost of slave		
labor.				
150	169	0.1132 Most synthetic clothing create the plastic based		
fibers we	wear.			
151	168	0.1132 Our partner collects discarded fishing nets for		
recycling.				
152	80	0.1132 Collection is vintage.		
153	161	0.1132 It is built better today.		
154	306	0.1132 We protect our water quality.		
155	134	0.1132 Farmers are nurturing the plants.		
156	253	0.0943 We focus on programs and partnerships.		
157	118	0.0943 The end of your clothes doesn't mean the end.		
158	117	0.0943 Welcome every stage of life.		
159	57	0.0943 You don't have to choose between style and		
sustainabi	lity.			
160	229	0.0943 We believe in quality of life.		
161	226	0.0943 An organization works with artisans from		
underserve	ed communit	ies.		
162	111	0.0943 A technology transforms textile waste into a		
new mater	rial.			
163	211	0.0943 Wear your garment until the end.		
164	52	0.0943 Workers are in the process of making clothes.		
165	206	0.0943 Keep it minimal.		
166	191	0.0943 We can make a big impact.		
167	11	0.0943 It is an innovative solution to turn materials into		
a textile fi	ber.			
168	186	0.0943 The focus point is animal welfare.		
169	185	0.0943 Our partners train farmers in organic practices.		
170	179	0.0943 Think responsible.		
171	44	0.0943 Water is the foundation of sustainable items		
offering longevity and recyclability.				
172	19	0.0943 They are innovative programs.		

173	174	0.0943 Brand insights guide the creation of circular
economy g	guidelin	es.
174	320	0.0943 Care for it.
175	317	0.0943 The issue is social fairness.
176	285	0.0943 Safe dyes and chemicals are used.
177	277	0.0943 Less than one percent of the world's cotton is
organic.		
178	274	0.0943 Uncovered actions that businesses can take on
an individ	ual leve	to change the planet.
179	266	0.0943 Clothing waste is transformed into fabric.
180	256	0.0943 It gives a spirit that's a piece that's full of repairs.
181	252	0.0755 We update operations for efficiency.
182	250	0.0755 Most of our cotton come from sustainable
sources.		
183	295	0.0755 We explore the possibilities presented by
innovation	ns.	
184	12	0.0755 Sustainability Innovation Hub makes our products
more susta	ainable.	
185	236	0.0755 Every piece of clothing has a purpose.
186	113	0.0755 It is made with recycled materials.
187	220	0.0755 Our partners link farmers with fair-paying
market par	rtners fo	r their products.
188	27	0.0755 We throw away our clothes.
189	217	0.0755 Pass knowledge to serve new farmers.?
190	6	0.0755 A technology dissolves cotton cellulose from
textile was	ste.	
191	209	0.0755 Retail insights guide the creation of circular
economy g	guidelin	es.
192	178	0.0755 We understand the sustainability challenges of
the fashion	n indust	ry.
193	201	0.0755 Do something about the environment.
194	97	0.0755 It is built to reduce harm.
195	56	0.0755 Wardrobe choice is sustainable.
196	133	0.0755 Worker is in the finishing department.

197	187	0.0755 We are taking steps to more sustainable
production	n.	
198	46	0.0755 Circular fashion looks so good.
199	91	0.0755 Out with the old and in with the new.
200	181	0.0755 We are producing in local factories.
201	89	0.0755 Clothes are worn for generations.
202	311	0.0755 The future is circular.
203	173	0.0755 The Foundation accelerates the transition to a
circular ed	conomy.	
204	31	0.0755 Collection is with a lifetime warranty.
205	54	0.0755 We make your clothes.
206	4	0.0755 Sustainability Innovation Hub supports partners
to scaleup	their init	iatives.
207	145	0.0755 We're reducing our shipping carbon footprint
through p	rocess ad	aptations.
208	290	0.0755 Plastic comes from oil and gas.
209	281	0.0755 It has a spirit.
210	247	0.0755 There are many garments most of which end up
in landfill		
211	34	0.0755 Shop second hand.
212	273	0.0755 Big opportunity was for collecting for this noble
polymer.		
213	260	0.0755 There is so much waste that we can leverage.
214	129	0.0755 Earth is the foundation of sustainable items
offering lo	ongevity a	and recyclability.
215	257	0.0755 Find events in your area.
216	208	0.0566 The foundation works with businesses to
mobilize s	solutions.	
217	62	0.0566 Sustainability is with our bio cotton clothes.
218	120	0.0566 Help people that live on planet.
219	239	0.0566 Manufacturing insights guide the creation of
circular e	conomy g	guidelines.
220	29	0.0566 It is a clothing to go the distance.
221	231	0.0566 Our activism is inherent in who we are.

222	110	0.0566 It is a platform to develop new materials and
technologi	es.	
223	218	0.0566 It is fashion revolution.
224	214	0.0566 We become more sustainable with better
processes	and product	s.
225	73	0.0566 It's important to create consciously.
226	198	0.0566 Clean out the closet.
227	160	0.0566 Our tailor shops customize your old favorites.
228	194	0.0566 Update old pieces to create new ones.
229	192	0.0566 Our cotton came from sustainable sources.
230	190	0.0566 It means buying more conscious when it comes
to quality.		
231	183	0.0566 Energy is the foundation of sustainable items
offering lo	ngevity and	recyclability.
232	72	0.0566 Better starts with how they're made.
233	42	0.0566 It is second hand.
234	41	0.0566 Comfort is with our bio cotton clothes.
235	291	0.0566 Uncovered actions that businesses can take on
a governm	ent level to	change the planet.
236	297	0.0566 Ethylene is the primary material for most
plastics.		
237	305	0.0566 Worker wellbeing positively impacts the supply
chain work	kers.	
238	272	0.0566 A little stitch goes a long way.
239	283	0.0566 It is an act of healing the labor for a broader
change.		
240	8	0.0566 A technology enables the conversion of carbon
from waste	e.	
241	271	0.0566 We offer a special product while supplies last.
242	255	0.0566 Turn a very low value item into a durable good
that could	last.	
243	32	0.0566 Reduce the fashion footprint.
244	242	0.0377 It is used in polyester yarn.
245	68	0.0377 Wash less.

246	243	0.0377 We search for processes to limit our impact.
247	66	0.0377 They are crafted of cottonized hemp.
248	302	0.0377 We're designing for circularity.
249	238	0.0377 The foundation works with academia to mobilize
solutions.		
250	259	0.0377 Make the world a better place.
251	180	0.0377 It is the responsible initiative of recycled cotton.
252	213	0.0377 Collection is eco-friendly.
253	119	0.0377 It is mindfully made.
254	25	0.0377 The designer invents new material by using
waste.		
255	150	0.0377 Hopes and aspirations become wearable realities.
256	197	0.0377 Clothes are made to gather memories.
257	146	0.0377 They're made to last.
258	263	0.0377 Collector insights guide the creation of circular
economy	guidelin	es.
259	84	0.0377 Botanical dyes are used.
260	87	0.0377 It's world water day.
261	235	0.0377 Keep clothes in play as long as possible.
262	292	0.0377 It is an act of healing the resources that make
the garme	ent.	
263	167	0.0377 During the era of activism, the traditional fabric
became a	tool of p	rotest.
264	14	0.0377 Old garments are on someone else.
265	268	0.0377 Each piece is graded by hand.
266	315	0.0377 Pieces are made in socially responsible factories.
267	20	0.0377 Waste is the starting point for art piece.
268	17	0.0377 They are made from air carbon.
269	15	0.0377 Experts are bringing new life to old garments.
270	9	0.0377 It is made from recycled carbon emissions.
271	303	0.0377 The naked plastic product looks like a pellet.
272	258	0.0377 Our life is directly tied to how we treat to the
land.		
273	215	0.0377 We want to be better for our environment.

274	16	0.0377 Share it.
275	65	0.0377 We introduce the give better guide.
276	142	0.0189 Wear often.
277	286	0.0189 This collection is sourced from textile associations.
278	308	0.0189 Make fibers that will get woven into the garment.
279	135	0.0189 Garments are made from European linen.
280	79	0.0189 Collection is inspired by mother nature.
281	88	0.0189 Direct a short film for second hand.
282	78	0.0189 Approach the fashion industry with a different
lens.		
283	70	0.0189 Vintage collection is made using upcycled.
284	205	0.0189 We have time to do things rather than endless
loads of la	aundry.	
285	288	0.0189 Each time the clothing is reused, waste
accumula	ted will b	e reduced.
286	112	0.0189 Capturing carbon emissions limits the use and
direct rele	ease of fos	ssil resources.
287	309	0.0189 Suppliers are closely being worked with for a
broader c	hange.	
288	262	0.0189 The foundation works with policymakers to
mobilize	solutions.	
289	223	0.0189 When it is made to last, we consume less.
290	275	0.0189 Sorter insights guide the creation of circular
economy	guideline	S.
291	313	0.0189 It should be accessible to all.
292	202	0.0189 Empower a new generation of artisans.
293	115	0.0189 Make it last.
294	13	0.0189 Wear recycled fibres.
295	270	0.0189 It is sustainably made.
296	21	0.0189 Transparency is a key in designs.
297	175	0.0189 The aim is to create garments with the finest
materials.		
298	282	0.0189 Find purpose.
270	202	0.010) Tilla purpose.

300	230	0.0189	It's easier to find the retro garment or	n the wish
list.				
301	304	0.018	The main ingredient in our clothin	g is fossil
fuels.				
302	240	0.0189	It is a process to move towards a su	ıstainable
future.				
303	261	0.0189	When garments get old, wear while g	ardening,
hiking and	surfing.			
304	222	(.0189 Our sustainability begins as	an active
resourcefuli	ness.			
305	284	0.0189	Make room.	
306	296	0.0189	Our goal is to reach all the communit	ies.
307	128	0.0189	It is thrift shop.	
308	293	0.0189	Our factory base is A/B rated.	
309	139	0.0189	There are many steps to use organic c	otton and
less water.				
310	94	0.0189	We give employees some paid time of	ff.
311	276	0.0189	No other fabric ages as well as denim	1.
312	82	0.0189	Be always upfront about social issues.	
313	155	0.0189	Learn more about our sustainability is	nitiatives.
314	332	0.0000	Our industry can learn how to make su	ustainable
choices.				
315	331	0.0000	It is a new step in social responsibility	y.
316	339	0.0000	If we don't rain in oil and gas, what's	at stake is
the future o	f humanity.			
317	323	0.0000	There's no limit what garments can de	0.
318	64	0.	0000 Utilize love of nature with cre	eations of
sustainabili	ty and circularity			
319	329	0.0000	Rewear the favourite clothes.	
320	22	0.0	2000 Each clothing is made in the su	ıstainable
CradletoCra	adle Certified? fal	bric.		
321	322	0.0000	Discover the cherish waste collection	
322	328	0.000	Four seasons became the inspiration	on for the
project.				

323	321	0.0000 It is a new cotton project.
324	334	0.0000 It is my cloth.
325	264	0.0000 The aim is to manufacture garments with the
high standa	ards.	
326	338	0.0000 It's a win for mother earth.
327	300	0.0000 We source more sustainable cotton.
328	157	0.0000 These natural dyes are made with plants.
329	337	0.0000 This end-of-season collection is reworked before
being mark	ked dow	n in value.
330	153	0.0000 Explore the passion for circular fashion through
upcycled d	esigns.	
331	325	0.0000 Combining conscious approach with classic
elements is	s the way	y to reimagine.
332	195	0.0000 Second hand gives new life to old garment.
333	330	0.0000 Receive the gift card.
334	336	0.0000 NGO insights guide the creation of circular
economy g	guideline	s.
335	335	0.0000 A small closet keeps on track with the self-
imposed cl	othing c	ontract.
336	333	0.0000 The foundation works with institutions to
mobilize so	olutions.	
337	327	0.0000 Our garments are fair trade certified sewn.
338	326	0.0000 Consciously chosen materials boost the good
vibes.		
339	324	0.0000 Buy clothes built to last.
Sum (all va		45.3396

Input Closeness Centrality

Rank	Vertex	Value Id
1	126	1.0000 Fashion industry needs to change.
2	75	0.9747 We believe in buying better and wearing longer.

3	1	0.9279 We move towards circularity.
4	212	0.8894 It is responsibility.
5	188	0.8668 Our partnerships are focused on climate.
6	7	0.8629 It is an innovation.
7	124	0.8616 Sustainability is essential.
8	127	0.8591 Collection is produced with organic cotton.
9	182	0.8591 It is cradletocradle certified.
10	237	0.8440 It is circularity.
11	193	0.8440 It is fully recyclable.
12	60	0.8367 We make sustainable clothes.
13	240	0.8190 It is a process to move towards a sustainable
future.		
14	207	0.8132 We can buy less.
15	26	0.8121 We produce garments that are built to last.
16	301	0.8064 It is better for the soil?.
17	122	0.8031 We believe in circular fashion.
18	285	0.8031 Safe dyes and chemicals are used.
19	162	0.7997 It eliminates the concept of waste.
20	154	0.7975 We design for circularity.
21	164	0.7964 Wear worn.
22	317	0.7932 The issue is social fairness.
23	85	0.7910 We have a debt to pay back to the environment.
24	311	0.7910 The future is circular.
25	98	0.7888 We are saving our home planet.
26	63	0.7867 We adopt new practices including reducing
carbon en	nissions.	
27	58	0.7835 Our production is in Europe.
28	245	0.7814 The materials we use matter.
29	299	0.7814 Worker wellbeing is being prioritized and
improved	l .	
30	181	0.7803 We are producing in local factories.
31	136	0.7803 We use renewable energy.
32	312	0.7772 It is product circularity.
33	254	0.7761 It is our consumption commitment.

34	310	0.7761 The products are assessed according to the
sustainab	oility issue	es.
35	143	0.7761 We are finding ways to use less water.
36	45	0.7751 Cradletocradle Certified is sustainably produced.
37	39	0.7741 It is upcycled post consumer waste.
38	206	0.7730 Keep it minimal.
39	151	0.7720 We never stop innovating.
40	246	0.7710 Our partnerships are focused on supporting local
communi	ities.	
41	47	0.7710 Circular economy is a big opportunity for the
sustainab	ole fashior	n industry.
42	248	0.7699 We sort your garment when you no longer need
it.		
43	280	0.7669 You are credited to buy something.
44	224	0.7659 Waste less.
45	102	0.7659 Get involved.
46	158	0.7608 We limit use of the most essential resources in
the produ	action pro	cess.
47	18	0.7608 Wear it.
48	144	0.7608 We reduce our fiber impact.
49	313	0.7588 It should be accessible to all.
50	187	0.7569 We are taking steps to more sustainable
production	on.	
51	59	0.7539 Feel green.
52	305	0.7539 Worker wellbeing positively impacts the supply
chain wo	rkers.	
53	86	0.7510 It is made with natural dyes.
54	140	0.7500 Organic cotton uses less water than conventional
cotton.		
55	156	0.7490 We take step towards purposeful consumption.
	100	
56	302	0.7490 We're designing for circularity.
56 57		0.7490 We're designing for circularity.0.7461 We make better clothes.
	302	

60	80	0.7452 Collection is vintage.
61	267	0.7452 Core materials are sustainably sourced.
62	194	0.7414 Update old pieces to create new ones.
63	42	0.7414 It is second hand.
64	100	0.7395 Protect the mother earth.
65	152	0.7395 We are improving cotton cultivation.
66	306	0.7385 We protect our water quality.
67	113	0.7366 It is made with recycled materials.
68	74	0.7329 Pass it on to someone who will use it.
69	197	0.7311 Clothes are made to gather memories.
70	315	0.7301 Pieces are made in socially responsible factories.
71	229	0.7292 We believe in quality of life.
72	90	0.7292 When you no longer need it, trade in.
73	300	0.7233 We source more sustainable cotton.
74	320	0.7219 Care for it.
75	319	0.7210 Repair it.
76	293	0.7191 Our factory base is A/B rated.
77	125	0.7175 Reworking the unique fabric takes effort and
time.		
78	49	0.7175 It is world environment day.
79	294	0.7175 It is better for farmers.
80	287	0.7175 Organic cotton does not use synthetic pesticides.
81	279	0.7175 Organic cotton saves CO2.?
82	269	0.7175 Organic cotton saves energy.
83	268	0.7166 Each piece is graded by hand.
84	337	0.7163 This end-of-season collection is reworked before
being ma	arked do	wn in value.
85	67	0.7157 It is our climate commitment.
86	128	0.7157 It is thrift shop.
87	191	0.7139 We can make a big impact.
88	286	0.7120 This collection is sourced from textile associations.
89	213	0.7113 Collection is eco-friendly.
90	103	0.7113 Our garment is made from recycled polyester.

91	247	0.7070 There are many garments most of which end up
in landfill		
92	147	0.7052 We help factories become more energy efficient.
93	334	0.7052 It is my cloth.
94	283	0.7027 It is an act of healing the labor for a broader
change.		
95	54	0.7010 We make your clothes.
96	218	0.7010 It is fashion revolution.
97	251	0.6993 We adopt new industry practices including
reducing v	waste.	
98	30	0.6976 Wear longer.
99	50	0.6976 We want our customers to make sustainable
choices.		
100	253	0.6968 We focus on programs and partnerships.
101	116	0.6968 Circularity is to extend the life of products.
102	318	0.6968 Buy used or new.
103	316	0.6934 A best thing we can do for the planet is reduce
overall co	nsumptio	1.
104	314	0.6926 A best thing for the planet is keep stuff in use
longer.		
105	221	0.6901 We're seeking sustainable fiber innovations.
106	19	0.6901 They are innovative programs.
107	145	0.6901 We're reducing our shipping carbon footprint
through pr	rocess ada	ptations.
108	250	0.6893 Most of our cotton come from sustainable
sources.		
109	295	0.6893 We explore the possibilities presented by
innovation	ns.	
110	81	0.6876 We are building a sustainable future.
111	92	0.6868 Experts offer free repair.
112	252	0.6852 We update operations for efficiency.
113	228	0.6836 Recycling is really important.
114	177	0.6026 We want every meterial can be cafely roused
	177	0.6836 We want every material can be safely reused.

116	190	0.6812 It means buying more conscious when it comes
to quality.		
117	36	0.6812 Our goal is to source all of the materials more
sustainabl	y.	
118	211	0.6788 Wear your garment until the end.
119	222	0.6772 Our sustainability begins as an active
resourcefu	ılness.	
120	73	0.6772 It's important to create consciously.
121	192	0.6748 Our cotton came from sustainable sources.
122	35	0.6740 We take your garment back when you no longer
need it.		
123	29	0.6733 It is a clothing to go the distance.
124	200	0.6686 Take action.
125	108	0.6640 Collection is designed with its whole life cycle
and future		
126	309	0.6640 Suppliers are closely being worked with for a
broader ch	nange.	
127	159	0.6632 Clothes are made to gather stories.
128	333	0.6622 The foundation works with institutions to
mobilize s	solutions.	
129	249	0.6610 Our biodiversity plan has key initiatives.
130	166	0.6610 Support grassroots organizations and foundations.
131	262	0.6583 The foundation works with policymakers to
mobilize s	solutions.	
132	307	0.6572 It is the same quality product at a lower cost.
133	130	0.6572 Cradletocradle certified pieces are bought to the
market.		
134	238	0.6544 The foundation works with academia to mobilize
solutions.		
135	235	0.6542 Keep clothes in play as long as possible.
136	208	0.6504 The foundation works with businesses to
mobilize s	solutions.	
137	256	0.6498 It gives a spirit that's a piece that's full of repairs.
138	270	0.6491 It is sustainably made.

139	173	0.6465 The Foundation accelerates the transition to a
circular ec	conomy.	
140	40	0.6440 We make the fashion industry more circular.
141	289	0.6419 Buying used is always the best for the planet.
142	266	0.6328 Clothing waste is transformed into fabric.
143	281	0.6314 It has a spirit.
144	282	0.6287 Find purpose.
145	230	0.6280 It's easier to find the retro garment on the wish
list.		
146	214	0.6280 We become more sustainable with better
processes	and prod	lucts.
147	34	0.6280 Shop second hand.
148	335	0.6277 A small closet keeps on track with the self-
imposed c	lothing c	contract.
149	101	0.6266 Find community.
150	276	0.6259 No other fabric ages as well as denim.
151	33	0.6259 We limit our environmental impact.
152	61	0.6253 We are taking wear forever to a whole new level.
153	225	0.6253 It feels good to do good.
154	338	0.6242 It's a win for mother earth.
155	111	0.6239 A technology transforms textile waste into a
new mater	rial.	
156	137	0.6206 We produce in our factory.
157	288	0.6204 Each time the clothing is reused, waste
accumulat	ed will b	e reduced.
158	138	0.6186 Feel good in the second hand.
159	330	0.6178 Receive the gift card.
160	298	0.6173 We want our materials to live a long life and a
future.		
161	196	0.6160 We strive towards a sustainable future.
162	23	0.6160 Throw in your discarded clothes.
163	163	0.6146 Get involved grassroots groups to meet the
climate cr	isis.	
164	24	0.6133 Expand the lifecycle of your clothes.

165	53	0.6127 Being transparent with the stakeholders is our
core value	<i>)</i> .	
166	55	0.6121 In conversion cotton is grown in the transition
from conv	rentional	to certified organic cotton.
167	277	0.6108 Less than one percent of the world's cotton is
organic.		
168	4	0.6108 Sustainability Innovation Hub supports partners
to scaleup	their init	iatives.
169	223	0.6095 When it is made to last, we consume less.
170	227	0.6088 Bring your clothes back to shops.
171	322	0.6085 Discover the cherish waste collection.
172	3	0.6063 It's a durable piece.
173	332	0.6049 Our industry can learn how to make sustainable
choices.		
174	104	0.6038 When we repair, we can find joy in the stuff we
already ov	vn.	
175	199	0.6038 We're hosting workshops to show you how to
repair.		
repair.	284	0.6012 Make room.
	284 272	0.6012 Make room.0.6006 A little stitch goes a long way.
176		
176 177	272	0.6006 A little stitch goes a long way.
176 177 178	272165139	0.6006 A little stitch goes a long way.0.5981 Become a volunteer.
176 177 178 179	272165139	0.6006 A little stitch goes a long way.0.5981 Become a volunteer.
176 177 178 179 less water.	272 165 139	0.6006 A little stitch goes a long way.0.5981 Become a volunteer.0.5981 There are many steps to use organic cotton and
176 177 178 179 less water: 180	272 165 139	 0.6006 A little stitch goes a long way. 0.5981 Become a volunteer. 0.5981 There are many steps to use organic cotton and 0.5969 Welcome every stage of life.
176 177 178 179 less water: 180 181	272 165 139	 0.6006 A little stitch goes a long way. 0.5981 Become a volunteer. 0.5981 There are many steps to use organic cotton and 0.5969 Welcome every stage of life. 0.5896 Out with the old and in with the new.
176 177 178 179 less water: 180 181 182	272 165 139	 0.6006 A little stitch goes a long way. 0.5981 Become a volunteer. 0.5981 There are many steps to use organic cotton and 0.5969 Welcome every stage of life. 0.5896 Out with the old and in with the new. 0.5884 Think responsible.
176 177 178 179 less water: 180 181 182 183	272 165 139	 0.6006 A little stitch goes a long way. 0.5981 Become a volunteer. 0.5981 There are many steps to use organic cotton and 0.5969 Welcome every stage of life. 0.5896 Out with the old and in with the new. 0.5884 Think responsible. 0.5878 Every piece of clothing has a purpose.
176 177 178 179 less water: 180 181 182 183	272 165 139	 0.6006 A little stitch goes a long way. 0.5981 Become a volunteer. 0.5981 There are many steps to use organic cotton and 0.5969 Welcome every stage of life. 0.5896 Out with the old and in with the new. 0.5884 Think responsible. 0.5878 Every piece of clothing has a purpose. 0.5854 We introduce the give better guide. 0.5837 When garments get old, wear while gardening,
176 177 178 179 less water 180 181 182 183 184 185	272 165 139	 0.6006 A little stitch goes a long way. 0.5981 Become a volunteer. 0.5981 There are many steps to use organic cotton and 0.5969 Welcome every stage of life. 0.5896 Out with the old and in with the new. 0.5884 Think responsible. 0.5878 Every piece of clothing has a purpose. 0.5854 We introduce the give better guide. 0.5837 When garments get old, wear while gardening,
176 177 178 179 less water 180 181 182 183 184 185 hiking and	272 165 139	 0.6006 A little stitch goes a long way. 0.5981 Become a volunteer. 0.5981 There are many steps to use organic cotton and 0.5969 Welcome every stage of life. 0.5896 Out with the old and in with the new. 0.5884 Think responsible. 0.5878 Every piece of clothing has a purpose. 0.5854 We introduce the give better guide. 0.5837 When garments get old, wear while gardening,
176 177 178 179 less water 180 181 182 183 184 185 hiking and	272 165 139	 0.6006 A little stitch goes a long way. 0.5981 Become a volunteer. 0.5981 There are many steps to use organic cotton and 0.5969 Welcome every stage of life. 0.5896 Out with the old and in with the new. 0.5884 Think responsible. 0.5878 Every piece of clothing has a purpose. 0.5854 We introduce the give better guide. 0.5837 When garments get old, wear while gardening, 0.5831 Cotton is our most used material.

190	129	0.5755 Earth is the foundation of sustainable items
offering longevity and recyclability.		
191	324	0.5745 Buy clothes built to last.
192	2 258	0.5682 Our life is directly tied to how we treat to the
land.		
193	3 231	0.5665 Our activism is inherent in who we are.
194	57	0.5660 You don't have to choose between style and
sustainability.		
195	5 99	0.5649 Our collaboration makes each piece unique.
196	5 271	0.5643 We offer a special product while supplies last.
197	51	0.5627 An organization works to source organically.
198	3 155	0.5624 Learn more about our sustainability initiatives.
199	331	0.5623 It is a new step in social responsibility.
200	28	0.5616 It's a timeless piece.
201	244	0.5610 We give an used textile a new life.
202	2 226	0.5610 An organization works with artisans from
underserved communities.		
203	3 115	0.5607 Make it last.
204	202	0.5588 Empower a new generation of artisans.
205	5 167	0.5554 During the era of activism, the traditional fabric
became a tool of protest.		
206	321	0.5520 It is a new cotton project.
207	219	0.5504 The fiber is obtained in line with the product
policy.		
208	3 176	0.5452 The iconic parts are removed for recycling.
209	118	0.5432 The end of your clothes doesn't mean the end.
210) 198	0.5406 Clean out the closet.
211	292	0.5381 It is an act of healing the resources that make
the garment.		
212	2 255	0.5351 Turn a very low value item into a durable good
that could last.		
213	3 216	0.5351 Organic cotton is more sustainable.
214	184	0.5346 Organic cotton feel good on your skin.

215	131	0.5341 There is a difference between organic and		
conventional cotton.				
216	327	0.5335 Our garments are fair trade certified sewn.		
217	149	0.5331 The fashion industry plays a part in climate		
crisis.				
218	52	0.5249 Workers are in the process of making clothes.		
219	329	0.5235 Rewear the favourite clothes.		
220	6	0.5216 A technology dissolves cotton cellulose from		
textile was	ste.			
221	278	0.5202 Core materials are cotton, polyester, and man-		
made cellu	ılosics.			
222	186	0.5179 The focus point is animal welfare.		
223	27	0.5174 We throw away our clothes.		
224	259	0.5147 Make the world a better place.		
225	37	0.5142 We share our sustainability report.?		
226	121	0.5138 We define more sustainable materials.		
227	201	0.5138 Do something about the environment.		
228	31	0.5106 Collection is with a lifetime warranty.		
229	119	0.5097 It is mindfully made.		
230	132	0.5022 Our partners train farmers in organic practices.		
231	243	0.4857 We search for processes to limit our impact.		
232	180	0.4845 It is the responsible initiative of recycled cotton.		
233	120	0.4829 Help people that live on planet.		
234	220	0.4789 Our partners link farmers with fair-paying		
market par	rtners fo	r their products.		
235	264	0.4767 The aim is to manufacture garments with the		
high stand	ards.			
236	32	0.4754 Reduce the fashion footprint.		
237	134	0.4742 Farmers are nurturing the plants.		
238	328	0.4737 Four seasons became the inspiration for the		
project.				
239	175	0.4737 The aim is to create garments with the finest		
materials.				

240	110	0.4730 It is a platform to develop new materials and			
technolog	technologies.				
241	56	0.4707 Wardrobe choice is sustainable.			
242	217	0.4577 Pass knowledge to serve new farmers.?			
243	185	0.4563 Our partners train farmers in organic practices.			
244	43	0.4555 Cradletocradle? certified products are a key part			
of our pro	duct cata	llogue.			
245	215	0.4541 We want to be better for our environment.			
246	183	0.4527 Energy is the foundation of sustainable items			
offering lo	ongevity	and recyclability.			
247	195	0.4463 Second hand gives new life to old garment.			
248	265	0.4380 The new material is made from pulp.			
249	241	0.4350 The remains of components are separated.			
250	210	0.4337 The fibres are decoloured.			
251	133	0.4199 Worker is in the finishing department.			
252	76	0.4103 We've curated our most sustainable collection.			
253	135	0.3850 Garments are made from European linen.			
254	150	0.3438 Hopes and aspirations become wearable realities.			
255	304	0.1045 The main ingredient in our clothing is fossil			
fuels.					
256	260	0.0821 There is so much waste that we can leverage.			
257	339	0.0784 If we don't rain in oil and gas, what's at stake is			
the future	of huma	nity.			
258	233	0.0672 Most of the clothing material is plastic.			
259	308	0.0647 Make fibers that will get woven into the garment.			
260	336	0.0597 NGO insights guide the creation of circular			
economy	guideline	es.			
261	303	0.0580 The naked plastic product looks like a pellet.			
262	296	0.0523 Our goal is to reach all the communities.			
263	275	0.0523 Sorter insights guide the creation of circular			
economy	guideline	es.			
264	297	0.0513 Ethylene is the primary material for most			
plastics.					

265	10	0.0448 This partnership represents an advancement in
recycling.		
266	263	0.0448 Collector insights guide the creation of circular
economy g	guidelin	es.
267	290	0.0448 Plastic comes from oil and gas.
268	291	0.0448 Uncovered actions that businesses can take on
a governm	ent leve	el to change the planet.
269	169	0.0384 Most synthetic clothing create the plastic based
fibers we v	wear.	
270	38	0.0373 Uncovered actions that businesses can take on a
corporate l	level to	change the planet.
271	203	0.0373 We recycle discarded fishing nets.
272	273	0.0373 Big opportunity was for collecting for this noble
polymer.		
273	239	0.0373 Manufacturing insights guide the creation of
circular ec	onomy	guidelines.
274	178	0.0348 We understand the sustainability challenges of
the fashior	n indust	ry.
275	209	0.0299 Retail insights guide the creation of circular
economy g	guidelin	es.
276	168	0.0299 Our partner collects discarded fishing nets for
recycling.		
277	232	0.0299 Our partners repurpose nets into new materials.
278	323	0.0299 There's no limit what garments can do.
279	274	0.0299 Uncovered actions that businesses can take on
an individu	ual leve	el to change the planet.
280	11	0.0285 It is an innovative solution to turn materials into
a textile fil	ber.	
281	205	0.0224 We have time to do things rather than endless
loads of la	undry.	
282	9	0.0224 It is made from recycled carbon emissions.
283	174	0.0224 Brand insights guide the creation of circular
economy g	guidelin	es.

284	171	0.0224 Majority of clothes come at the cost of slave
labor.		
285	89	0.0224 Clothes are worn for generations.
286	234	0.0224 Gas and oil industry threatens the clothing
industry		
287	204	0.0224 Majority of our clothes come at the cost of
pollution	1.	
288	112	0.0179 Capturing carbon emissions limits the use and
direct re	lease of fos	sil resources.
289	242	0.0149 It is used in polyester yarn.
290	170	0.0149 Fossil fuels used to make clothing accelerate
the envir	onmental c	risis.
291	109	0.0149 Academic insights guide the creation of circular
economy	y guideline:	3.
292	62	0.0149 Sustainability is with our bio cotton clothes.
293	157	0.0149 These natural dyes are made with plants.
294	142	0.0149 Wear often.
295	325	0.0149 Combining conscious approach with classic
elements	s is the way	to reimagine.
296	146	0.0149 They're made to last.
297	114	0.0149 It is a bio material made by microorganisms.
298	41	0.0149 Comfort is with our bio cotton clothes.
299	153	0.0149 Explore the passion for circular fashion through
upcycled	designs.	
300	326	0.0149 Consciously chosen materials boost the good
vibes.		
301	172	0.0149 The pandemic presents an opportunity to connect
with sub	jects.	
302	161	0.0149 It is built better today.
303	72	0.0000 Better starts with how they're made.
304	106	0.0000 Plastics are essential for durable clothing.
305	46	0.0000 Circular fashion looks so good.
306	82	0.0000 Be always upfront about social issues.
307	15	0.0000 Experts are bringing new life to old garments.

	308	97	0.0000 It is built to reduce harm.
	309	17	0.0000 They are made from air carbon.
	310	64	0.0000 Utilize love of nature with creations of
sus	tainabilit	ty and circular	ity.
	311	20	0.0000 Waste is the starting point for art piece.
	312	12	0.0000 Sustainability Innovation Hub makes our products
mo	re sustaii	nable.	
	313	84	0.0000 Botanical dyes are used.
	314	83	0.0000 It's earth day.
	315	78	0.0000 Approach the fashion industry with a different
lens	S.		
	316	14	0.0000 Old garments are on someone else.
	317	94	0.0000 We give employees some paid time off.
	318	66	0.0000 They are crafted of cottonized hemp.
	319	77	0.0000 We are working to change consumption habits.
	320	107	0.0000 Smaller spaces help consuming less.
	321	105	0.0000 The clothing industry has a plastic problem.
	322	5	0.0000 The used garments are recovered.
	323	79	0.0000 Collection is inspired by mother nature.
	324	95	0.0000 It looks as good as it did decades ago.
	325	25	0.0000 The designer invents new material by using
was	ste.		
	326	21	0.0000 Transparency is a key in designs.
	327	68	0.0000 Wash less.
	328	16	0.0000 Share it.
	329	87	0.0000 It's world water day.
	330	96	0.0000 Trends don't last a lifetime.
	331	13	0.0000 Wear recycled fibres.
	332	44	0.0000 Water is the foundation of sustainable items
offe	ering lon	gevity and rec	yclability.
	333	2	0.0000 Redesign is a project by the foundation.
	334	70	0.0000 Vintage collection is made using upcycled.
	335	48	0.0000 Vintage is trendy.

336	8	0.0000 A technology enables the conversion of carbon	
from wa	iste.		
337	69	0.0000 We are aware of the dark side of fashion.	
338	22	0.0000 Each clothing is made in the sustainable	
CradletoCradle Certified? fabric.			
339	88	0.0000 Direct a short film for second hand.	
Sum (all values):		168.0986	

Output Closeness Centrality

Rank V	ertex	Value Id
1	75	1.0000 We believe in buying better and wearing longer.
2	126	0.9585 Fashion industry needs to change.
3	35	0.9281 We take your garment back when you no longer
need it.		
4	40	0.9219 We make the fashion industry more circular.
5	26	0.9098 We produce garments that are built to last.
6	127	0.9083 Collection is produced with organic cotton.
7	50	0.9054 We want our customers to make sustainable
choices.		
8	63	0.8995 We adopt new practices including reducing carbon
emission	s.	
9	1	0.8966 We move towards circularity.
10	212	0.8796 It is responsibility.
11	116	0.8699 Circularity is to extend the life of products.
12	162	0.8672 It eliminates the concept of waste.
13	193	0.8605 It is fully recyclable.
14	124	0.8578 Sustainability is essential.
15	188	0.8565 Our partnerships are focused on climate.
16	81	0.8499 We are building a sustainable future.
17	18	0.8447 Wear it.
18	207	0.8396 We can buy less.

1	19	228	0.8384 Recycling is really important.
2	20	143	0.8371 We are finding ways to use less water.
2	21	36	0.8333 Our goal is to source all of the materials more
sustai	nably	'.	
2	22	47	0.8296 Circular economy is a big opportunity for the
sustai	nable	fashion	industry.
2	23	237	0.8259 It is circularity.
2	24	76	0.8259 We've curated our most sustainable collection.
2	25	77	0.8238 We are working to change consumption habits.
2	26	154	0.8222 We design for circularity.
2	27	39	0.8186 It is upcycled post consumer waste.
2	28	74	0.8186 Pass it on to someone who will use it.
2	29	99	0.8174 Our collaboration makes each piece unique.
3	30	61	0.8102 We are taking wear forever to a whole new level.
3	31	86	0.8102 It is made with natural dyes.
3	32	246	0.8079 Our partnerships are focused on supporting local
comm	nuniti	es.	
3	33	23	0.8055 Throw in your discarded clothes.
3	34	280	0.8055 You are credited to buy something.
3	35	196	0.8043 We strive towards a sustainable future.
3	36	151	0.8032 We never stop innovating.
3	37	225	0.8020 It feels good to do good.
3	38	182	0.8020 It is cradletocradle certified.
3	39	58	0.8009 Our production is in Europe.
۷	40	37	0.7986 We share our sustainability report.?
۷	41	130	0.7974 Cradletocradle certified pieces are bought to the
marke	et.		
4	42	108	0.7963 Collection is designed with its whole life cycle
and fu	uture.		
۷	43	33	0.7951 We limit our environmental impact.
۷	14	248	0.7940 We sort your garment when you no longer need
it.			
۷	45	60	0.7929 We make sustainable clothes.
۷	46	67	0.7906 It is our climate commitment.

47	7 244	0.7872 We give an used textile a new life.
48	38	0.7869 Uncovered actions that businesses can take on a
corpor	ate level t	o change the planet.
49	9 59	0.7850 Feel green.
50	122	0.7828 We believe in circular fashion.
51	1 24	0.7817 Expand the lifecycle of your clothes.
52	2 92	0.7806 Experts offer free repair.
53	3 227	0.7773 Bring your clothes back to shops.
54	4 224	0.7751 Waste less.
55	5 245	0.7741 The materials we use matter.
56	5 253	0.7730 We focus on programs and partnerships.
57	7 267	0.7708 Core materials are sustainably sourced.
58	3 28	0.7698 It's a timeless piece.
59	9 45	0.7676 Cradletocradle Certified is sustainably produced.
60	138	0.7666 Feel good in the second hand.
61	1 136	0.7666 We use renewable energy.
62	2 148	0.7655 We host workshops for our upcycled collection.
63	3 254	0.7645 It is our consumption commitment.
64	4 159	0.7645 Clothes are made to gather stories.
65	5 137	0.7645 We produce in our factory.
66	301	0.7634 It is better for the soil?.
67	7 71	0.7592 We make better clothes.
68	8 164	0.7582 Wear worn.
69	9 158	0.7582 We limit use of the most essential resources in
the pro	duction p	rocess.
70) 98	0.7541 We are saving our home planet.
71	1 30	0.7500 Wear longer.
72	2 177	0.7500 We want every material can be safely reused.
73	3 147	0.7500 We help factories become more energy efficient.
74	4 251	0.7480 We adopt new industry practices including
reducir	ng waste.	
75	5 310	0.7480 The products are assessed according to the
sustain	ability iss	sues.

76	149	0.7480 The fashion industry plays a part in climate
crisis.		
77	312	0.7470 It is product circularity.
78	125	0.7450 Reworking the unique fabric takes effort and
time.		
79	123	0.7430 We set ambitious sustainability targets.
80	19	0.7430 They are innovative programs.
81	150	0.7430 Hopes and aspirations become wearable realities.
82	278	0.7430 Core materials are cotton, polyester, and man-
made cel	lulosics.	
83	95	0.7428 It looks as good as it did decades ago.
84	141	0.7420 We are restoring our resources.
85	140	0.7410 Organic cotton uses less water than conventional
cotton.		
86	89	0.7390 Clothes are worn for generations.
87	161	0.7380 It is built better today.
88	219	0.7371 The fiber is obtained in line with the product
policy.		
89	181	0.7371 We are producing in local factories.
90	289	0.7341 Buying used is always the best for the planet.
91	145	0.7332 We're reducing our shipping carbon footprint
through p	process ac	laptations.
92	317	0.7322 The issue is social fairness.
93	298	0.7293 We want our materials to live a long life and a
future.		
94	53	0.7283 Being transparent with the stakeholders is our
core valu	ıe.	
95	43	0.7283 Cradletocradle? certified products are a key part
of our pro	oduct cata	alogue.
96	85	0.7283 We have a debt to pay back to the environment.
97	144	0.7283 We reduce our fiber impact.
98	46	0.7274 Circular fashion looks so good.
99	121	0.7274 We define more sustainable materials.
100	307	0.7236 It is the same quality product at a lower cost.

101	160	0.7217 Our tailor shops customize your old favorites.
102	314	0.7217 A best thing for the planet is keep stuff in use
longer.		
103	49	0.7208 It is world environment day.
104	316	0.7208 A best thing we can do for the planet is reduce
overall co	nsumptio	n.
105	131	0.7208 There is a difference between organic and
convention	nal cotton	ı.
106	100	0.7198 Protect the mother earth.
107	184	0.7198 Organic cotton feel good on your skin.
108	216	0.7189 Organic cotton is more sustainable.
109	294	0.7180 It is better for farmers.
110	287	0.7180 Organic cotton does not use synthetic pesticides.
111	279	0.7180 Organic cotton saves CO2.?
112	269	0.7180 Organic cotton saves energy.
113	97	0.7153 It is built to reduce harm.
114	107	0.7138 Smaller spaces help consuming less.
115	90	0.7134 When you no longer need it, trade in.
116	152	0.7106 We are improving cotton cultivation.
117	249	0.7097 Our biodiversity plan has key initiatives.
118	51	0.7097 An organization works to source organically.
119	172	0.7092 The pandemic presents an opportunity to connect
with subje	ects.	
120	57	0.7088 You don't have to choose between style and
sustainabi	lity.	
121	306	0.7088 We protect our water quality.
122	48	0.7081 Vintage is trendy.
123	83	0.7081 It's earth day.
124	190	0.7079 It means buying more conscious when it comes
to quality.		
125	55	0.7070 In conversion cotton is grown in the transition
from conv	entional t	to certified organic cotton.
126	318	0.7061 Buy used or new.
127	65	0.7061 We introduce the give better guide.

128	72	0.7059 Better starts with how they're made.
129	73	0.7034 It's important to create consciously.
130	146	0.7012 They're made to last.
131	299	0.6999 Worker wellbeing is being prioritized and
improved.		
132	191	0.6999 We can make a big impact.
133	221	0.6981 We're seeking sustainable fiber innovations.
134	189	0.6981 Cotton is our most used material.
135	250	0.6964 Most of our cotton come from sustainable
sources.		
136	295	0.6964 We explore the possibilities presented by
innovation	S.	
137	68	0.6960 Wash less.
138	7	0.6946 It is an innovation.
139	192	0.6946 Our cotton came from sustainable sources.
140	176	0.6946 The iconic parts are removed for recycling.
141	104	0.6929 When we repair, we can find joy in the stuff we
already ow	n.	
142	199	0.6920 We're hosting workshops to show you how to
repair.		
143	93	0.6920 Extend the life of garment by repairing.
144	142	0.6915 Wear often.
145	319	0.6912 Repair it.
146	44	0.6906 Water is the foundation of sustainable items
offering lo	ngevity a	nd recyclability.
147	320	0.6903 Care for it.
148	111	0.6886 A technology transforms textile waste into a
new mater	ial.	
149	223	0.6886 When it is made to last, we consume less.
150	156	0.6869 We take step towards purposeful consumption.
151	62	0.6867 Sustainability is with our bio cotton clothes.
152	41	0.6867 Comfort is with our bio cotton clothes.
153	129	0.6860 Earth is the foundation of sustainable items
offering lo	ngevity a	nd recyclability.

154	186	0.6852 The focus point is animal welfare.
155	5	0.6847 The used garments are recovered.
156	187	0.6835 We are taking steps to more sustainable
productio	n.	
157	183	0.6835 Energy is the foundation of sustainable items
offering l	ongevity	and recyclability.
158	134	0.6835 Farmers are nurturing the plants.
159	132	0.6827 Our partners train farmers in organic practices.
160	31	0.6810 Collection is with a lifetime warranty.
161	215	0.6801 We want to be better for our environment.
162	56	0.6777 Wardrobe choice is sustainable.
163	185	0.6777 Our partners train farmers in organic practices.
164	272	0.6768 A little stitch goes a long way.
165	211	0.6752 Wear your garment until the end.
166	217	0.6744 Pass knowledge to serve new farmers.?
167	220	0.6735 Our partners link farmers with fair-paying
market pa	artners fo	or their products.
168	52	0.6735 Workers are in the process of making clothes.
169	54	0.6727 We make your clothes.
170	210	0.6727 The fibres are decoloured.
171	80	0.6727 Collection is vintage.
172	133	0.6727 Worker is in the finishing department.
173	285	0.6719 Safe dyes and chemicals are used.
174	117	0.6719 Welcome every stage of life.
175	179	0.6719 Think responsible.
176	218	0.6711 It is fashion revolution.
177	34	0.6711 Shop second hand.
178	42	0.6703 It is second hand.
179	135	0.6703 Garments are made from European linen.
180	3	0.6695 It's a durable piece.
181	241	0.6695 The remains of components are separated.
182	315	0.6695 Pieces are made in socially responsible factories.
183	270	0.6687 It is sustainably made.

184	139	0.6687 There are many steps to use organic cotton and
less water.		
185	313	0.6679 It should be accessible to all.
186	128	0.6679 It is thrift shop.
187	265	0.6663 The new material is made from pulp.
188	311	0.6647 The future is circular.
189	10	0.6603 This partnership represents an advancement in
recycling.		
190	266	0.6568 Clothing waste is transformed into fabric.
191	96	0.6566 Trends don't last a lifetime.
192	6	0.6560 A technology dissolves cotton cellulose from
textile wast	e.	
193	214	0.6529 We become more sustainable with better
processes as	nd products.	
194	229	0.6491 We believe in quality of life.
195	255	0.6491 Turn a very low value item into a durable good
that could la	ast.	
196	256	0.6491 It gives a spirit that's a piece that's full of repairs.
197	281	0.6484 It has a spirit.
198	82	0.6467 Be always upfront about social issues.
199	11	0.6414 It is an innovative solution to turn materials into
a textile fib	er.	
200	118	0.6372 The end of your clothes doesn't mean the end.
201	120	0.6372 Help people that live on planet.
202	178	0.6371 We understand the sustainability challenges of
the fashion	industry.	
203	252	0.6357 We update operations for efficiency.
204	180	0.6343 It is the responsible initiative of recycled cotton.
205	27	0.6285 We throw away our clothes.
206	12	0.6285 Sustainability Innovation Hub makes our products
more sustai	nable.	
207	305	0.6257 Worker wellbeing positively impacts the supply
chain worke	ers.	
208	302	0.6229 We're designing for circularity.

209	103	0.6222 Our garment is made from recycled polyester.
210	268	0.6201 Each piece is graded by hand.
211	32	0.6194 Reduce the fashion footprint.
212	113	0.6174 It is made with recycled materials.
213	206	0.6167 Keep it minimal.
214	91	0.6160 Out with the old and in with the new.
215	4	0.6153 Sustainability Innovation Hub supports partners
to scaleup	their in	itiatives.
216	236	0.6153 Every piece of clothing has a purpose.
217	110	0.6146 It is a platform to develop new materials and
technologi	ies.	
218	69	0.6125 We are aware of the dark side of fashion.
219	198	0.6106 Clean out the closet.
220	66	0.6087 They are crafted of cottonized hemp.
221	226	0.6066 An organization works with artisans from
underserve	ed comn	nunities.
222	106	0.6059 Plastics are essential for durable clothing.
223	213	0.6039 Collection is eco-friendly.
224	197	0.6026 Clothes are made to gather memories.
225	170	0.6019 Fossil fuels used to make clothing accelerate
the enviro	nmental	crisis.
226	16	0.6008 Share it.
227	247	0.6006 There are many garments most of which end up
in landfill.	•	
228	234	0.5980 Gas and oil industry threatens the clothing
industry.		
229	79	0.5957 Collection is inspired by mother nature.
230	274	0.5941 Uncovered actions that businesses can take on
an individ	ual leve	to change the planet.
231	277	0.5929 Less than one percent of the world's cotton is
organic.		
232	271	0.5923 We offer a special product while supplies last.
233	243	0.5923 We search for processes to limit our impact.
234	284	0.5911 Make room.

235	200	0.5898 Take action.
236	166	0.5898 Support grassroots organizations and foundations.
237	102	0.5885 Get involved.
238	105	0.5782 The clothing industry has a plastic problem.
239	87	0.5685 It's world water day.
240	230	0.5640 It's easier to find the retro garment on the wish
list.		
241	101	0.5457 Find community.
242	232	0.5455 Our partners repurpose nets into new materials.
243	203	0.5455 We recycle discarded fishing nets.
244	168	0.5455 Our partner collects discarded fishing nets for
recycling.		
245	273	0.5445 Big opportunity was for collecting for this noble
polymer.		
246	8	0.5418 A technology enables the conversion of carbon
from waste	e.	
247	171	0.5401 Majority of clothes come at the cost of slave
labor.		
248	204	0.5401 Majority of our clothes come at the cost of
pollution.		
249	242	0.5381 It is used in polyester yarn.
250		
230	20	0.5349 Waste is the starting point for art piece.
251	20 9	0.5349 Waste is the starting point for art piece.0.5349 It is made from recycled carbon emissions.
251	9 222	0.5349 It is made from recycled carbon emissions.
251 252	9 222	0.5349 It is made from recycled carbon emissions.
251 252 resourcefu	9 222 alness.	0.5349 It is made from recycled carbon emissions.0.5331 Our sustainability begins as an active
251 252 resourcefu 253	9 222 alness. 260	0.5349 It is made from recycled carbon emissions.0.5331 Our sustainability begins as an active0.5327 There is so much waste that we can leverage.
251 252 resourcefu 253 254 255	9 222 alness. 260 282	 0.5349 It is made from recycled carbon emissions. 0.5331 Our sustainability begins as an active 0.5327 There is so much waste that we can leverage. 0.5321 Find purpose. 0.5312 Capturing carbon emissions limits the use and
251 252 resourcefu 253 254 255	9 222 alness. 260 282 112	 0.5349 It is made from recycled carbon emissions. 0.5331 Our sustainability begins as an active 0.5327 There is so much waste that we can leverage. 0.5321 Find purpose. 0.5312 Capturing carbon emissions limits the use and
251 252 resourcefu 253 254 255 direct relea	9 222 alness. 260 282 112 ase of fossil	 0.5349 It is made from recycled carbon emissions. 0.5331 Our sustainability begins as an active 0.5327 There is so much waste that we can leverage. 0.5321 Find purpose. 0.5312 Capturing carbon emissions limits the use and resources.
251 252 resourcefu 253 254 255 direct relea	9 222 alness. 260 282 112 ase of fossil 194	 0.5349 It is made from recycled carbon emissions. 0.5331 Our sustainability begins as an active 0.5327 There is so much waste that we can leverage. 0.5321 Find purpose. 0.5312 Capturing carbon emissions limits the use and resources. 0.5311 Update old pieces to create new ones.
251 252 resourcefu 253 254 255 direct relea 256 257	9 222 alness. 260 282 112 ase of fossil 194 29	 0.5349 It is made from recycled carbon emissions. 0.5331 Our sustainability begins as an active 0.5327 There is so much waste that we can leverage. 0.5321 Find purpose. 0.5312 Capturing carbon emissions limits the use and resources. 0.5311 Update old pieces to create new ones. 0.5296 It is a clothing to go the distance.

260	292	0.5286 It is an act of healing the resources that make
the garmer	nt.	
261	240	0.5281 It is a process to move towards a sustainable
future.		
262	276	0.5281 No other fabric ages as well as denim.
263	25	0.5182 The designer invents new material by using
waste.		
264	88	0.5170 Direct a short film for second hand.
265	94	0.5044 We give employees some paid time off.
266	235	0.5041 Keep clothes in play as long as possible.
267	14	0.4856 Old garments are on someone else.
268	15	0.4856 Experts are bringing new life to old garments.
269	163	0.4711 Get involved grassroots groups to meet the
climate cri	isis.	
270	165	0.4688 Become a volunteer.
271	257	0.4684 Find events in your area.
272	201	0.4668 Do something about the environment.
273	231	0.4394 Our activism is inherent in who we are.
274	258	0.4384 Our life is directly tied to how we treat to the
land.		
275	259	0.4377 Make the world a better place.
276	296	0.4320 Our goal is to reach all the communities.
277	309	0.4279 Suppliers are closely being worked with for a
broader ch	nange.	
278	205	0.4128 We have time to do things rather than endless
loads of la	undry.	
279	261	0.4102 When garments get old, wear while gardening,
hiking, and	d surfing.	
280	233	0.0691 Most of the clothing material is plastic.
281	2	0.0691 Redesign is a project by the foundation.
282	109	0.0605 Academic insights guide the creation of circular
economy §	guidelines.	
283	169	0.0605 Most synthetic clothing create the plastic based
fibers we	wear.	

284	174	0.0518 Brand insights guide the creation of circular
economy g	guideline	es.
285	291	0.0478 Uncovered actions that businesses can take on
a governm	nent level	to change the planet.
286	173	0.0432 The Foundation accelerates the transition to a
circular ec	conomy.	
287	209	0.0432 Retail insights guide the creation of circular
economy g	guideline	es.
288	290	0.0432 Plastic comes from oil and gas.
289	208	0.0345 The foundation works with businesses to
mobilize s	olutions.	
290	297	0.0345 Ethylene is the primary material for most
plastics.		
291	239	0.0345 Manufacturing insights guide the creation of
circular ec	conomy g	guidelines.
292	84	0.0259 Botanical dyes are used.
293	167	0.0259 During the era of activism, the traditional fabric
became a	tool of p	rotest.
294	238	0.0259 The foundation works with academia to mobilize
solutions.		
295	17	0.0259 They are made from air carbon.
296	303	0.0259 The naked plastic product looks like a pellet.
297	263	0.0259 Collector insights guide the creation of circular
economy g	guideline	es.
298	293	0.0173 Our factory base is A/B rated.
299	21	0.0173 Transparency is a key in designs.
300	288	0.0173 Each time the clothing is reused, waste
accumulat	ed will b	e reduced.
301	286	0.0173 This collection is sourced from textile associations.
302	175	0.0173 The aim is to create garments with the finest
materials.		
303	78	0.0173 Approach the fashion industry with a different
lens.		

304	275	0.0173 Sorter insights guide the creation of circular
economy g	guidelines.	
305	262	0.0173 The foundation works with policymakers to
mobilize s	olutions.	
306	202	0.0173 Empower a new generation of artisans.
307	114	0.0173 It is a bio material made by microorganisms.
308	155	0.0173 Learn more about our sustainability initiatives.
309	70	0.0173 Vintage collection is made using upcycled.
310	308	0.0173 Make fibers that will get woven into the garment.
311	13	0.0173 Wear recycled fibres.
312	115	0.0173 Make it last.
313	304	0.0173 The main ingredient in our clothing is fossil
fuels.		
314	336	0.0000 NGO insights guide the creation of circular
economy g	guidelines.	
315	321	0.0000 It is a new cotton project.
316	328	0.0000 Four seasons became the inspiration for the
project.		
317	333	0.0000 The foundation works with institutions to
mobilize s	olutions.	
318	339	0.0000 If we don't rain in oil and gas, what's at stake is
the future	of humanity.	
319	338	0.0000 It's a win for mother earth.
320	329	0.0000 Rewear the favourite clothes.
321	157	0.0000 These natural dyes are made with plants.
322	335	0.0000 A small closet keeps on track with the self-
imposed c	lothing contrac	t.
323	322	0.0000 Discover the cherish waste collection.
324	326	0.0000 Consciously chosen materials boost the good
vibes.		
325	64	0.0000 Utilize love of nature with creations of
sustainabi	lity and circula	rity.
326	337	0.0000 This end-of-season collection is reworked before
1	ked down in va	1

327	327	0.0000	Our garments are fair trade certified sewn.
328	264	0.0000	The aim is to manufacture garments with the
high standa	rds.		
329	324	0.0000	Buy clothes built to last.
330	334	0.0000	It is my cloth.
331	323	0.0000	There's no limit what garments can do.
332	325	0.000	O Combining conscious approach with classic
elements is	the way to reima	igine.	
333	195	0.0000	Second hand gives new life to old garment.
334	330	0.0000	Receive the gift card.
335	22	0.0	2000 Each clothing is made in the sustainable
CradletoCra	adle Certified? fa	bric.	
336	332	0.0000	Our industry can learn how to make sustainable
choices.			
337	300	0.0000	We source more sustainable cotton.
338	331	0.0000	It is a new step in social responsibility.
339	153	0.0000	Explore the passion for circular fashion through
upcycled de	esigns.		

Betweenness Centrality

Rank	Vertex	Value Id
1	126	1.0000 Fashion industry needs to change.
2	75	0.7561 We believe in buying better and wearing longer.
3	26	0.3274 We produce garments that are built to last.
4	1	0.3241 We move towards circularity.
5	212	0.2989 It is responsibility.
6	127	0.2140 Collection is produced with organic cotton.
7	7	0.1906 It is an innovation.
8	280	0.1503 You are credited to buy something.
9	39	0.1388 It is upcycled post consumer waste.

10	164	0.1358 Wear worn.
11	33	0.1276 We limit our environmental impact.
12	116	0.1162 Circularity is to extend the life of products.
13	85	0.1099 We have a debt to pay back to the environment.
14	98	0.1097 We are saving our home planet.
15	67	0.1089 It is our climate commitment.
16	228	0.1063 Recycling is really important.
17	92	0.1052 Experts offer free repair.
18	124	0.1032 Sustainability is essential.
19	113	0.1015 It is made with recycled materials.
20	63	0.1001 We adopt new practices including reducing
carbon e	missions.	
21	207	0.0958 We can buy less.
22	156	0.0936 We take step towards purposeful consumption.
23	122	0.0898 We believe in circular fashion.
24	93	0.0885 Extend the life of garment by repairing.
25	191	0.0876 We can make a big impact.
26	74	0.0875 Pass it on to someone who will use it.
27	193	0.0850 It is fully recyclable.
28	18	0.0849 Wear it.
29	86	0.0823 It is made with natural dyes.
30	3	0.0814 It's a durable piece.
31	30	0.0805 Wear longer.
32	36	0.0786 Our goal is to source all of the materials more
sustainab	oly.	
33	188	0.0750 Our partnerships are focused on climate.
34	60	0.0722 We make sustainable clothes.
35	176	0.0722 The iconic parts are removed for recycling.
36	162	0.0698 It eliminates the concept of waste.
37	104	0.0652 When we repair, we can find joy in the stuff we
already o	own.	
38	58	0.0635 Our production is in Europe.
39	50	0.0626 We want our customers to make sustainable
choices.		

40	248	0.0626 We sort your garment when you no longer need
it.		
41	199	0.0605 We're hosting workshops to show you how to
repair.		
42	237	0.0587 It is circularity.
43	29	0.0575 It is a clothing to go the distance.
44	24	0.0573 Expand the lifecycle of your clothes.
45	102	0.0558 Get involved.
46	100	0.0546 Protect the mother earth.
47	144	0.0531 We reduce our fiber impact.
48	38	0.0531 Uncovered actions that businesses can take on a
corporate	e level to c	change the planet.
49	158	0.0513 We limit use of the most essential resources in
the produ	action prod	cess.
50	81	0.0511 We are building a sustainable future.
51	55	0.0486 In conversion cotton is grown in the transition
from cor	ventional	to certified organic cotton.
52	10	0.0477 This partnership represents an advancement in
recycling	·	
53	206	0.0461 Keep it minimal.
54	90	0.0454 When you no longer need it, trade in.
55	182	0.0446 It is cradletocradle certified.
56	136	0.0445 We use renewable energy.
57	129	0.0444 Earth is the foundation of sustainable items
offering	longevity	and recyclability.
58	256	0.0438 It gives a spirit that's a piece that's full of repairs.
59	49	0.0433 It is world environment day.
60	35	0.0422 We take your garment back when you no longer
need it.		
61	31	0.0415 Collection is with a lifetime warranty.
62	283	0.0404 It is an act of healing the labor for a broader
change.		
63	101	0.0402 Find community.
64	154	0.0383 We design for circularity.

65	51	0.0346 An organization works to source organically.
66	260	0.0335 There is so much waste that we can leverage.
67	159	0.0323 Clothes are made to gather stories.
68	166	0.0321 Support grassroots organizations and foundations.
69	61	0.0307 We are taking wear forever to a whole new level.
70	235	0.0299 Keep clothes in play as long as possible.
71	28	0.0289 It's a timeless piece.
72	138	0.0289 Feel good in the second hand.
73	54	0.0289 We make your clothes.
74	4	0.0285 Sustainability Innovation Hub supports partners
to scaleup	their in	itiatives.
75	143	0.0281 We are finding ways to use less water.
76	23	0.0273 Throw in your discarded clothes.
77	40	0.0265 We make the fashion industry more circular.
78	299	0.0262 Worker wellbeing is being prioritized and
improved	. /	
79	177	0.0259 We want every material can be safely reused.
80	76	0.0242 We've curated our most sustainable collection.
81	301	0.0234 It is better for the soil?.
82	59	0.0226 Feel green.
83	229	0.0221 We believe in quality of life.
84	151	0.0219 We never stop innovating.
85	282	0.0217 Find purpose.
86	148	0.0210 We host workshops for our upcycled collection.
87	200	0.0194 Take action.
88	267	0.0194 Core materials are sustainably sourced.
89	196	0.0189 We strive towards a sustainable future.
90	211	0.0186 Wear your garment until the end.
91	56	0.0182 Wardrobe choice is sustainable.
92	42	0.0170 It is second hand.
93	73	0.0169 It's important to create consciously.
94	45	0.0160 Cradletocradle Certified is sustainably produced.
95	140	0.0153 Organic cotton uses less water than conventional
cotton.		

	96	219	0.0146 The fiber is obtained in line with the product	
policy.				
	97	103	0.0145 Our garment is made from recycled polyester.	
	98	155	0.0145 Learn more about our sustainability initiatives.	
	99	52	0.0145 Workers are in the process of making clothes.	
	100	311	0.0139 The future is circular.	
	101	265	0.0132 The new material is made from pulp.	
	102	245	0.0131 The materials we use matter.	
	103	227	0.0127 Bring your clothes back to shops.	
	104	194	0.0109 Update old pieces to create new ones.	
	105	141	0.0108 We are restoring our resources.	
	106	266	0.0105 Clothing waste is transformed into fabric.	
	107	305	0.0104 Worker wellbeing positively impacts the supply	
chai	n work	ers.		
	108	160	0.0100 Our tailor shops customize your old favorites.	
	109	165	0.0098 Become a volunteer.	
	110	47	0.0095 Circular economy is a big opportunity for the	
sust	ainable	fashion industry	1.	
	111	130	0.0092 Cradletocradle certified pieces are bought to the	
mar	ket.			
	112	246	0.0087 Our partnerships are focused on supporting local	
com	munitie	es.		
	113	197	0.0085 Clothes are made to gather memories.	
	114	53	0.0080 Being transparent with the stakeholders is our	
core	value.			
	115	224	0.0075 Waste less.	
	116	111	0.0075 A technology transforms textile waste into a	
new	materi	al.		
	117	125	0.0074 Reworking the unique fabric takes effort and	
time	e.			
	118	80	0.0073 Collection is vintage.	
	119	123	0.0065 We set ambitious sustainability targets.	
	120	132	0.0061 Our partners train farmers in organic practices.	
	121	181	0.0060 We are producing in local factories.	

122	285	0.0055 Safe dyes and chemicals are used.		
123	43	0.0053 Cradletocradle? certified products are a key part		
of our product catalogue.				
124	19	0.0047 They are innovative programs.		
125	163	0.0046 Get involved grassroots groups to meet the		
climate cri	isis.			
126	147	0.0042 We help factories become more energy efficient.		
127	118	0.0041 The end of your clothes doesn't mean the end.		
128	254	0.0029 It is our consumption commitment.		
129	99	0.0028 Our collaboration makes each piece unique.		
130	27	0.0017 We throw away our clothes.		
131	233	0.0016 Most of the clothing material is plastic.		
132	89	0.0016 Clothes are worn for generations.		
133	108	0.0015 Collection is designed with its whole life cycle		
and future				
134	71	0.0015 We make better clothes.		
135	37	0.0014 We share our sustainability report.?		
136	152	0.0012 We are improving cotton cultivation.		
137	32	0.0006 Reduce the fashion footprint.		
138	251	0.0004 We adopt new industry practices including		
reducing v	vaste.			
139	221	0.0003 We're seeking sustainable fiber innovations.		
140	253	0.0003 We focus on programs and partnerships.		
141	117	0.0003 Welcome every stage of life.		
142	190	0.0003 It means buying more conscious when it comes		
to quality.				
143	304	0.0003 The main ingredient in our clothing is fossil		
fuels.				
144	91	0.0003 Out with the old and in with the new.		
145	137	0.0001 We produce in our factory.		
146	203	0.0001 We recycle discarded fishing nets.		
147	9	0.0001 It is made from recycled carbon emissions.		
148	57	0.0001 You don't have to choose between style and		
sustainabil	lity.			

149	316	0.0001 A best thing we can do for the planet is reduce		
overall consumption.				
150	314	0.0001 A best thing for the planet is keep stuff in use		
longer.				
151	307	0.0001 It is the same quality product at a lower cost.		
152	289	0.0001 Buying used is always the best for the planet.		
153	187	0.0001 We are taking steps to more sustainable		
production	1.			
154	11	0.0000 It is an innovative solution to turn materials into		
a textile fi	ber.			
155	186	0.0000 The focus point is animal welfare.		
156	185	0.0000 Our partners train farmers in organic practices.		
157	184	0.0000 Organic cotton feel good on your skin.		
158	183	0.0000 Energy is the foundation of sustainable items		
offering lo	ongevity	and recyclability.		
159	313	0.0000 It should be accessible to all.		
160	309	0.0000 Suppliers are closely being worked with for a		
broader ch	nange.			
161	180	0.0000 It is the responsible initiative of recycled cotton.		
162	179	0.0000 Think responsible.		
163	178	0.0000 We understand the sustainability challenges of		
the fashion industry.				
164	44	0.0000 Water is the foundation of sustainable items		
offering longevity and recyclability.				
165	88	0.0000 Direct a short film for second hand.		
166	175	0.0000 The aim is to create garments with the finest		
materials.				
167	174	0.0000 Brand insights guide the creation of circular		
economy g	guideline	·s.		
168	173	0.0000 The Foundation accelerates the transition to a		
circular ec	conomy.			
169	172	0.0000 The pandemic presents an opportunity to connect		
with subjects.				

170	171	0.0000 Majority of clothes come at the cost of slave
labor.		
171	170	0.0000 Fossil fuels used to make clothing accelerate
the environ	mental crisis.	
172	169	0.0000 Most synthetic clothing create the plastic based
fibers we w	vear.	
173	168	0.0000 Our partner collects discarded fishing nets for
recycling.		
174	167	0.0000 During the era of activism, the traditional fabric
became a to	ool of protest.	
175	83	0.0000 It's earth day.
176	41	0.0000 Comfort is with our bio cotton clothes.
177	82	0.0000 Be always upfront about social issues.
178	308	0.0000 Make fibers that will get woven into the garment.
179	317	0.0000 The issue is social fairness.
180	161	0.0000 It is built better today.
181	292	0.0000 It is an act of healing the resources that make
the garmen	ıt.	
182	312	0.0000 It is product circularity.
183	294	0.0000 It is better for farmers.
184	281	0.0000 It has a spirit.
185	78	0.0000 Approach the fashion industry with a different
lens.		
186	277	0.0000 Less than one percent of the world's cotton is
organic.		
187	77	0.0000 We are working to change consumption habits.
188	247	0.0000 There are many garments most of which end up
in landfill.		
189	255	0.0000 Turn a very low value item into a durable good
that could l	last.	
190	315	0.0000 Pieces are made in socially responsible factories.
191	273	0.0000 Big opportunity was for collecting for this noble
polymer.		

192	2 264	0.0000 The aim is to manufacture garments with the	
high standards.			
193	3 328	0.0000 Four seasons became the inspiration for the	
project.			
194	4 79	0.0000 Collection is inspired by mother nature.	
195	5 146	0.0000 They're made to last.	
196	5 145	0.0000 We're reducing our shipping carbon footprint	
through	process a	daptations.	
197	7 324	0.0000 Buy clothes built to last.	
198	3 128	0.0000 It is thrift shop.	
199	9 142	0.0000 Wear often.	
200	275	0.0000 Sorter insights guide the creation of circular	
econom	ny guidelin	es.	
201	1 279	0.0000 Organic cotton saves CO2.?	
202	2 139	0.0000 There are many steps to use organic cotton and	
less wa	ter.		
203	3 69	0.0000 We are aware of the dark side of fashion.	
204	4 34	0.0000 Shop second hand.	
205	5 68	0.0000 Wash less.	
206	5 135	0.0000 Garments are made from European linen.	
207	7 134	0.0000 Farmers are nurturing the plants.	
208	331	0.0000 It is a new step in social responsibility.	
209	9 65	0.0000 We introduce the give better guide.	
210) 131	0.0000 There is a difference between organic and	
conven	tional cotto	on.	
211	1 293	0.0000 Our factory base is A/B rated.	
212	2 64	0.0000 Utilize love of nature with creations of	
sustainability and circularity.			
213	3 333	0.0000 The foundation works with institutions to	
mobiliz	mobilize solutions.		
214	4 339	0.0000 If we don't rain in oil and gas, what's at stake is	
the futu	re of huma	nity.	
215	5 239	0.0000 Manufacturing insights guide the creation of	
circular economy guidelines.			

216	225	0.0000 It feels good to do good.
217	327	0.0000 Our garments are fair trade certified sewn.
218	17	0.0000 They are made from air carbon.
219	157	0.0000 These natural dyes are made with plants.
220	121	0.0000 We define more sustainable materials.
221	120	0.0000 Help people that live on planet.
222	119	0.0000 It is mindfully made.
223	300	0.0000 We source more sustainable cotton.
224	325	0.0000 Combining conscious approach with classic
elements	is the wa	y to reimagine.
225	302	0.0000 We're designing for circularity.
226	115	0.0000 Make it last.
227	276	0.0000 No other fabric ages as well as denim.
228	271	0.0000 We offer a special product while supplies last.
229	268	0.0000 Each piece is graded by hand.
230	336	0.0000 NGO insights guide the creation of circular
economy	guideline	es.
231	334	0.0000 It is my cloth.
232	318	0.0000 Buy used or new.
233	296	0.0000 Our goal is to reach all the communities.
234	107	0.0000 Smaller spaces help consuming less.
235	13	0.0000 Wear recycled fibres.
236	6	0.0000 A technology dissolves cotton cellulose from
textile wa	ste.	
237	338	0.0000 It's a win for mother earth.
238	290	0.0000 Plastic comes from oil and gas.
239	25	0.0000 The designer invents new material by using
waste.		
240	288	0.0000 Each time the clothing is reused, waste
accumula	ted will b	pe reduced.
241	297	0.0000 Ethylene is the primary material for most
plastics.		
242	250	0.0000 Most of our cotton come from sustainable
sources.		

243	295	0.0000 We explore the possibilities presented by
innovation	ns.	
244	12	0.0000 Sustainability Innovation Hub makes our products
more susta	ainable.	
245	48	0.0000 Vintage is trendy.
246	72	0.0000 Better starts with how they're made.
247	330	0.0000 Receive the gift card.
248	319	0.0000 Repair it.
249	46	0.0000 Circular fashion looks so good.
250	2	0.0000 Redesign is a project by the foundation.
251	274	0.0000 Uncovered actions that businesses can take on
an individ	ual level	to change the planet.
252	291	0.0000 Uncovered actions that businesses can take on
a governm	nent level	to change the planet.
253	22	0.0000 Each clothing is made in the sustainable
CradletoC	Cradle Ce	rtified? fabric.
254	87	0.0000 It's world water day.
255	5	0.0000 The used garments are recovered.
256	21	0.0000 Transparency is a key in designs.
257	84	0.0000 Botanical dyes are used.
258	20	0.0000 Waste is the starting point for art piece.
259	306	0.0000 We protect our water quality.
260	62	0.0000 Sustainability is with our bio cotton clothes.
261	287	0.0000 Organic cotton does not use synthetic pesticides.
262	149	0.0000 The fashion industry plays a part in climate
crisis.		
263	209	0.0000 Retail insights guide the creation of circular
economy	guideline	s.
264	133	0.0000 Worker is in the finishing department.
265	236	0.0000 Every piece of clothing has a purpose.
266	262	0.0000 The foundation works with policymakers to
mobilize s	solutions.	
267	220	0.0000 Our partners link farmers with fair-paying
market pa	rtners for	their products.

	268	261	0.0000	When garments get old, wear while gardening,	
hiking and surfing.					
	269	257	0.0000	Find events in your area.	
	270	243	0.0000	We search for processes to limit our impact.	
	271	269	0.0000	Organic cotton saves energy.	
	272	8	0.0000	A technology enables the conversion of carbon	
from	ı waste	e.			
	273	284	0.0000	Make room.	
	274	16	0.0000	Share it.	
	275	249	0.0000	Our biodiversity plan has key initiatives.	
	276	286	0.0000 Th	is collection is sourced from textile associations.	
	277	241	0.0000	The remains of components are separated.	
	278	222		0.0000 Our sustainability begins as an active	
reso	urcefu	lness.			
	279	105	0.0000	The clothing industry has a plastic problem.	
	280	322	0.0000	Discover the cherish waste collection.	
	281	320	0.0000	Care for it.	
	282	272	0.0000	A little stitch goes a long way.	
	283	112	0.0000	Capturing carbon emissions limits the use and	
direc	ct relea	ase of fo	ssil resources.		
	284	242	0.0000	It is used in polyester yarn.	
	285	259	0.0000	Make the world a better place.	
	286	213	0.0000	Collection is eco-friendly.	
	287	114	0.0000	It is a bio material made by microorganisms.	
	288	252	0.0000	We update operations for efficiency.	
	289	278	0.0000	Core materials are cotton, polyester, and man-	
mad	made cellulosics.				
	290	70	0.0000	Vintage collection is made using upcycled.	
	291	258	0.0000	Our life is directly tied to how we treat to the	
land					
	292	244	0.0000	We give an used textile a new life.	
	293	270	0.0000	It is sustainably made.	
	294	15	0.0000	Experts are bringing new life to old garments.	
	295	217	0.0000	Pass knowledge to serve new farmers.?	

296	230	0.0000 It's easier to find the retro garment on the wish			
list.					
297	14	0.0000 Old garments are on someone else.			
298	66	0.0000 They are crafted of cottonized hemp.			
299	332	0.0000 Our industry can learn how to make sustainable			
choices.					
300	263	0.0000 Collector insights guide the creation of circular			
economy g	guidelines.				
301	234	0.0000 Gas and oil industry threatens the clothing			
industry.					
302	303	0.0000 The naked plastic product looks like a pellet.			
303	153	0.0000 Explore the passion for circular fashion through			
upcycled d	lesigns.				
304	218	0.0000 It is fashion revolution.			
305	298	0.0000 We want our materials to live a long life and a			
future.					
306	231	0.0000 Our activism is inherent in who we are.			
307	223	0.0000 When it is made to last, we consume less.			
308	240	0.0000 It is a process to move towards a sustainable			
future.					
309	310	0.0000 The products are assessed according to the			
sustainabil	sustainability issues.				
310	208	0.0000 The foundation works with businesses to			
mobilize solutions.					
311	335	0.0000 A small closet keeps on track with the self-			
imposed c	lothing contract.				
312	214	0.0000 We become more sustainable with better			
processes and products.					
313	202	0.0000 Empower a new generation of artisans.			
314	106	0.0000 Plastics are essential for durable clothing.			
315	323	0.0000 There's no limit what garments can do.			
316	226	0.0000 An organization works with artisans from			
underserved communities.					

317	238	0.0000 The foundation works with academia to mobilize
solutions.		
318	204	0.0000 Majority of our clothes come at the cost of
pollution.		
319	215	0.0000 We want to be better for our environment.
320	232	0.0000 Our partners repurpose nets into new materials.
321	110	0.0000 It is a platform to develop new materials and
technologi	es.	
322	97	0.0000 It is built to reduce harm.
323	192	0.0000 Our cotton came from sustainable sources.
324	321	0.0000 It is a new cotton project.
325	216	0.0000 Organic cotton is more sustainable.
326	201	0.0000 Do something about the environment.
327	337	0.0000 This end-of-season collection is reworked before
being marl	ked dow	n in value.
328	210	0.0000 The fibres are decoloured.
329	150	0.0000 Hopes and aspirations become wearable realities.
330	329	0.0000 Rewear the favourite clothes.
331	109	0.0000 Academic insights guide the creation of circular
economy g	guidelin	es.
332	95	0.0000 It looks as good as it did decades ago.
333	205	0.0000 We have time to do things rather than endless
loads of la	undry.	
334	195	0.0000 Second hand gives new life to old garment.
335	198	0.0000 Clean out the closet.
336	189	0.0000 Cotton is our most used material.
337	326	0.0000 Consciously chosen materials boost the good
vibes.		
338	96	0.0000 Trends don't last a lifetime.
339	94	0.0000 We give employees some paid time off.
Sum (all v	alues):	8.4400