MONDAY, AUGUST 5, 2019 | THE STRAITS TIMES |

OPINION | A15



Eco nightmare of today's throwaway fashion

This is the last of 12 primers on current affairs issues that are part of the outreach programme for The Straits Times-Ministry of Education National Current Affairs Quiz



Ang Yiying

The Japanese company that owns Unido and other dorthing brands give a media precise last month of a new technology to reduce the amount of water used to give jeans a "worn in" look. It is among geener moves by fashion businesses in an industry increasingly scrutnissed for its environmental impact – from the consumption of resources, pollution arising from the production process and beyond, to the creation of clothing waste.

problem.
Microplastics, which are plastic particles less than 5mm in size, are considered particularly problematic be cause their minuscule size makes them hard to remove from oceans and they can also enter the food chain.

when fish ingest them.
A 2017 report by the
International Union for Of Nature found that
one of the chief sources of primary
microplastics entering the oceans
is the washing of synthetic textiles
- such as polysets or nylon which
are made from chemicals
- resulting in plagate microfibres
resulting in plagate microfibres
resulting in plagate microfibres
fibre such as cotton come with
environmental costs, Cotton, for
instance, is water-intensive.
The water footprint of a product
is calculated by adding up the
unseen water – a concept known as
- virtual water – required for every
stage of the production process.
A lig plat of jeans would have
used 27.20 litrus based on a 2005
report The Water Footprint of
Cotton Consumption.

GONE TO WASTE

pollution as more production process and beyond, to the creation of clothing waste.

The United National aunched the UN Alliance for Sustainable Fashion in March to address issues related to the Grothing and textile industry.

These include the industry contributing 8 to 10 per cent of the world's greenhouse gast emissions and 20 per cent of industrial waste water pollution world wide.

And as governments and contributing the contribution of the contribution of

discarded an neurosci only once.

Local charity-run thrift shops are on the receiving end too.

The Salvation Army Red Shield Industries said clothing made up the bulk of its in-kind donations, which averages 10 tonnes daily

THE STRAITS TIMES NATIONAL CURRENT AFFAIRS

About the Big Quiz

Journalists: from The Straits Times have been addressing burning questions and offering on complex issues in a 12-party part of the Quijuino services.

The themes and topics in the primer pieces are part of the outer and allowing premiers of the coulter addressing the part of the current affairs competition over three quit rounds, the first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition. The first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition. The first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition. The first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition. The first owner that the current affairs competition over three quit rounds, the first owner that the current affairs competition. The first owner that the current aff

during non-peak seasons. About 5 to 10 per cent of clothes donated came with price tags, said general manager Paul Chay.

The New 2I Thrift Shop run by the Singapore Council of Women's Organisations said tid dnot run.

Toganisations said tid dnot run.

Though Singapore in centerate treveled, based on National review, the volume of clothing donations but had noticed an increase in the quantity of donations in general. Programme executive Denise Ballnetchet said "quite a number" of clothes came with price tags.

attached.
While donated clothes get a second lease of life, many other unwanted garments are binned. Wordshwide, a garbage truck worth of clothes is incinerated or left at a landfill levery second, said a 2017 report by the Ellen

combination of materials, and its molecular make-up, said Republic Polytechnic's School of Applied Science programme chair (worklearn programmes) Jeremy Kong, His estimates vary from two weeks to five months for 100 per

cent cotton textile to completely break down, one to five years for wool and 200 years upwards for polyesters, which is made up of synthetic polymers.

ARE CHANGES AFOOT?

ARC CHANGE AFOOT?

The fashion industry istelf is responding, said industry experts. Dr Lee Kyung Mi, course chair of diploma in apparel design and merchandising at Temasek Polytechnic School of Design, said sustainability is also taught in curriculum, adding: Sustainability as also judgit in curriculum, adding: Sustainability as also judgit in curriculum, adding: Sustainability as also judgit in continuous and apparel brands have joined and apparel brands have joined the Zero Discharge of Hazardous Chemicals, a coalition aiming to do away with the use of harmful chemicals in their supply chain. Since it started in 2011 with its Since it is a supplier of the company of the which trains cotton farmers on sustainable agriculture practices and for companies to use "better cotton"

"better cotton".
A number of international brands such as H&M have rolled out efforts engaging consumers, such as launching co-friendly clothes ranges – which use suscinably made or recycled materials – and setting up collection points for consumers' unwanted garments to send for reuse or recycling.

garments to send for reuse or recycling. Yet the pace of change may not be fast enough, based on an annual assessment of businesses' sustainability and governance strategy by the Global Fashion Agenda and Sustainable Apparel Coalinion, along with the Boston Consulting Group.

The Pulse of the Fashion Industry 2019 Update concluded that fashion companies "are not implementing sustainable solutions fast enough to counterbalance the negative environmental and social impacts of the rapidly growing fashion industry".

WHAT IS IN THE WAY?

WHATIS IN THE WAY?
Challenges abound, from the production chain to the dothes' rend of life.
Ms Circe Henestrosa, head of the School of Fashion at LaSalle College of othe Arts, said: Retailers outsource most of their manufacturing to factories that they don't own, so sustainable processes in the production chain are difficult to track:
Some cone guide production chain are difficult to track:
Company of the production chain are difficult to track:
Company of the production chain are difficult to track:
To companies to take great or ownership and responsibility for the manufacturing process through tracking and asking for greater transparency.
One such proum. Fashion

Transparency.
One such group, Fashlon
Revolution, publishes a
transparency index of the biggest
fashlon brands, with 200 in this
year's update.
There is also the issue of dealing

with unwanted garments. Reusin or repurposing them is easier that recycling, which is not as efficien

or repurposing them is easier than a process. The properties of the process. Polyvechnic 'Me Kong Doint odour that textell recycling, consumes energy and requires separating tiers by fabric type and colour type. Clothes made up of benedic fabric-s- for instance, a mixed percentage of cotton and objecter—also make separation hard, he-said. "Scientifically, there are existing enzymatic and hydrothermal separation most of the blended fabrics. However, the problem is that there is no one standard fabric blend. Every fashion brand carries its sown type of fabric blend." Financial costs play a part too.

carries its own type of fabric blend."
Financial costs play a part too. Ms Semun Ho, chief executive officer of the local Textile and Fashion Federation, said that a manufacturer which adopts greener practices or a company which pays a premium for sustainably acquired products can incur higher production costs. "The costs can be passed to the consumer, leading to increased product prices of if they are absorbed by the company, it would come at the expense of a lower margin, "she added."

WILL CONSUMERS ACT?

margin, sorcaucers

WILL CONSUMERS ACT?

Supply is one side of the equation.

But on the demand side,
consumers who say they care about
the environment may not vote with
their wallets.

A survey in March this year of
close to 3,000 consumers in Brazil,
China, France, the United States
and Britain by the Bosson
Consulting Group showed the gap.
While 7s per cent of those
surveyed viewed sustainability
in addition, only 7 per cent treated
it as a key purchasing criterion.

Asleed about local consumers,
Associate Professor Sharon Ng,
who teaches marketing at Nanyang
Technological University's
Nanyang Business School, said:
"Singapore consumers are more
pragmatic. Though they do care
about being environmentally
friendly, other considerations such
as price and features of the
supplication of the consumers of the consumers of the
supplication of the consumers of the c

rasinon Revotution is country coordinator for Singapore, Ms Laura Francois, said: "Buy only what you really need. Search for a second-hand version first. If you can't find it, buy it new and opt for companies that are committed to ethical practices and produce sustainably."
"And finally, wear it and take care of it for a slong as you can."

TheSingaporePerspective

Ways to fight clothing waste

Local schools teaching fashion such as Lasalle College of the Arts' School of Fashion and Temasek Polytechnic's School of Design say that sustainability is part of their curriculum. Some businesses and groups in Singapore are also trying to make fashion more eco-friendly and to combat clothing waste.

FASHION INDUSTRY

The Textile and Fashion
Federation runs The Bridge
Fashion Incubator programme to
help fashion and fashion-tech
businesses with a focus on
design, technology and
sustainability. Federation chief
executive Semus Ho said: "By
critically locking at technology
and
predict inventory, rethinking
traditional business models and
scrutinising the way fashion
value and supply chains operate
today, we hope to create a more
environmentally conscious
future.

· In recent years, clothing rental

businesses such as Style Theory and Style Lease and clothes swopping services such as The Fashion Pulpit have emerged here. These newer models of businesses provide an alternative to buying clothes.

Global retailer H&M collects customers' unwanted gamments which are sent to 1sC0, a company which recycles used textiles and shoes. In Singapore, H&M has 19 collection blins across 10 stores. The amount of unwanted gamments collected bere has gone upower the years, from 22.09 tronnes in 2014 to 174.61 tonnes last year, said Ms Wong Xin Yi, its sustainability manager for South-cast Asia.

GREENEFFORTS

SREEN EFFORTS

Local textiles recycling firm
Greensquare, which was
established in 2017, works with
corporations and schools to
collect clothes for reuse and
recycling, it estimates it will
collect 120 tonnes this year. It
also does education outreach an
promotes the 3Rs – reducing,

Students Against Violation of the Earth, a National University of Singapore (NUS) environmental group, runs the Green Wardrobes programme where unwanted clothes collected on campus are sent for textile recycling. Since its start in 2013, it has collected