

Prepared by:

Updated: 8th December, 2021



# A New Life for Fabrics and Plastics

Flagship brands:



# Kloth Malaysia Environmental. Economy. Social.

Status: Social Enterprise Accreditation (SE.A)

Accredited by:



A tax exempt social enterprise by:



Since 11.12.13

**WOMEN**

**kloth**  
**cares**

**kloth**  
**cares**

Fabric Recycling Movement

Since 18.8.18

TEXTILES & CLOTHING

**CIRCULAR ECONOMY**

**INSPIRATION** Catalyst in textile and clothing circular economy

**VISION 2030** South East Asia's preferred and trusted solution provider for managing and innovating textile waste

**Keep Fabric Out of Landfills**

**kloth**  
**cares**

**WomanUp**

Rising with #SHEconomy

**APPROACH** Establishment and development of value chains and movements with multi stakeholders

**IMPACT** Waste are recycled into new products and resources with higher material value and purpose



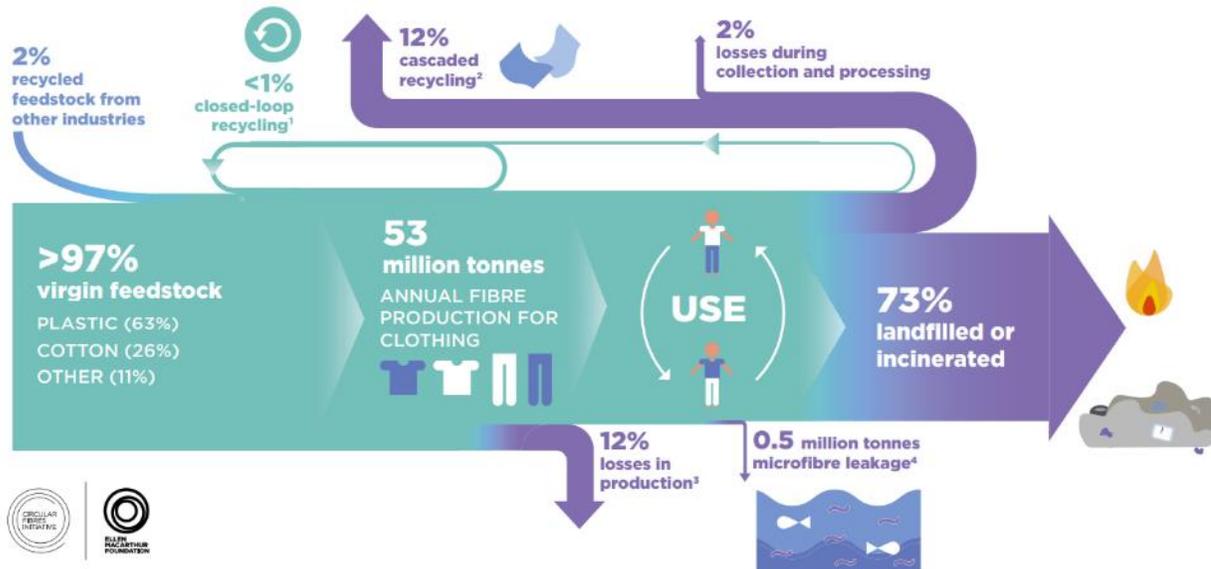
**Rethink. Reduce. Reuse. Repurpose. Recycle.**

# What is Textile Circular Economy? What is Happening?

The vision of a new textile economy is based on the principles of a circular economy, in which clothes, textiles, and fibers are kept at their highest value during use and never end up as waste.



FIGURE 3: GLOBAL MATERIAL FLOWS FOR CLOTHING IN 2015



- 1 Recycling of clothing into the same or similar quality applications
- 2 Recycling of clothing into other, lower-value applications such as insulation material, wiping cloths, or mattress stuffing
- 3 Includes factory offcuts and overstock liquidation
- 4 Plastic microfibres shed through the washing of all textiles released into the ocean

Source: Circular Fibres Initiative analysis - for details see Appendix B

## Who are the circular economy players in Malaysia?

Nat May 28 · 4 min read

### Recycle

Recycling reduces the product back to its material level so it can be made into a new product.

1. **Kloth Cares** — collects old clothing to recycle (becomes rags) or redistribute

**Kloth Cares is recognized as one of the circular economy players in Malaysia.**

# Textile Waste & Fast Fashion Data

KLOTH CARES™ FABRIC RECYCLING MOVEMENT



## Why should you care too?

Out of the  
**3.1 million tonnes**  
of total waste disposed of in 2018,  
**6.3% or 195,300 tonnes**  
were fabric waste SWCorp Data



When fabric and textile waste decompose, a potent greenhouse gas called methane is released. Landfill methane emission affects climate change.



When fabric and textile are manufactured, harmful substances such as dyes and chemicals are produced which can pollute the water.



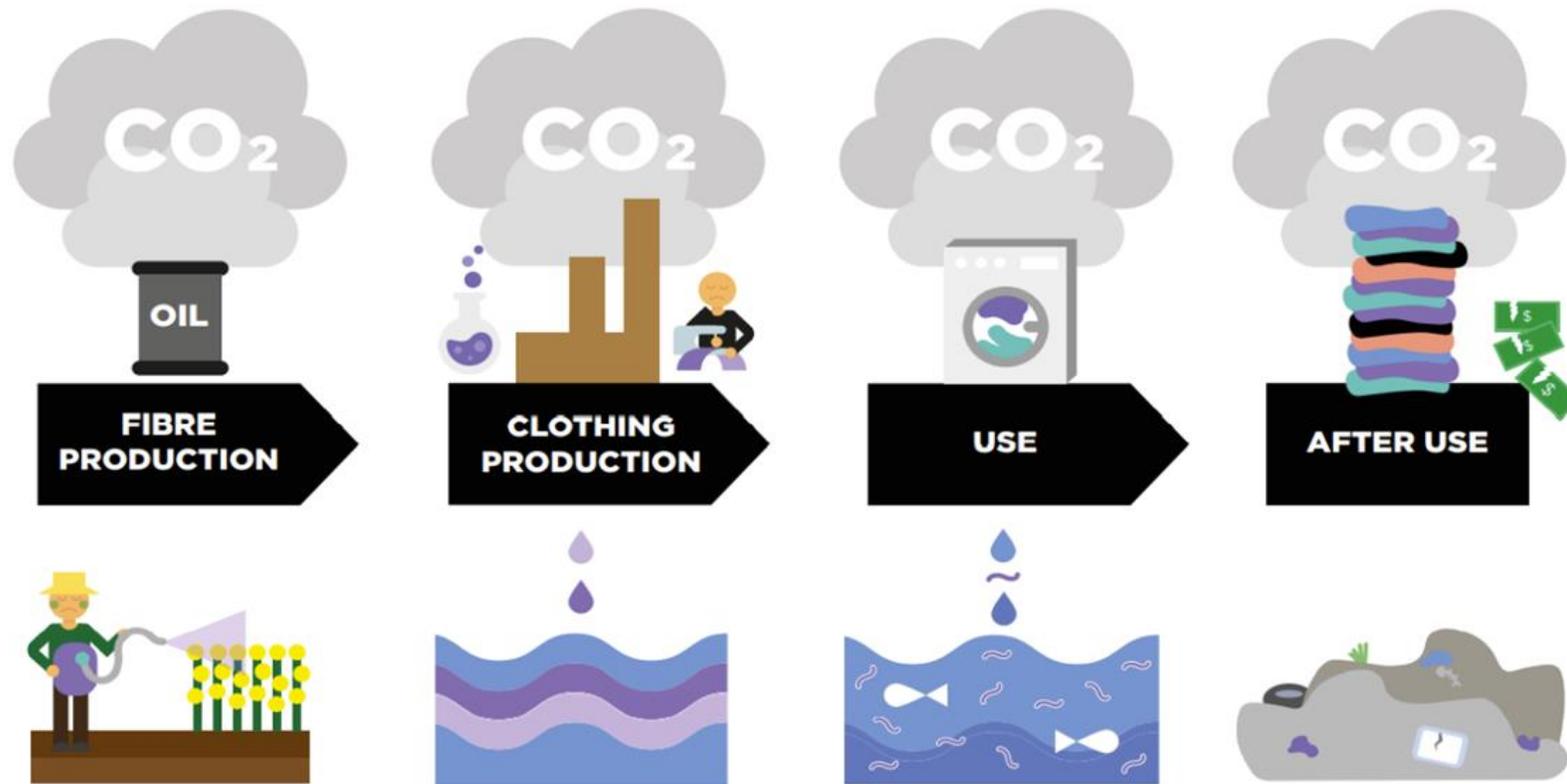
It is claimed that more than 100 billion pieces of new garments are produced annually. There are claims that a fast fashion consumer wears a piece of garment for less than 10 times and ownership not exceeding less than 12 months before disposal.

## We need to divert textile wastes away from landfills!

More than 150 landfills in Malaysia are now closed due to overflow of solid wastes.

# Textile & Fast Fashion Data

**FIGURE 2:** TODAY'S CLOTHING SYSTEM PUTS PRESSURE ON RESOURCES, POLLUTES THE ENVIRONMENT, AND CREATES NEGATIVE SOCIETAL IMPACTS



# What is Kloth Cares Fabric Recycling Movement (KCFRM)?

An environmental, economic and social impact brand that is committed to catalyse the textile and clothing circular economy.



We establish and develop value chains and movements where multi stakeholders join hands to divert waste from the landfills and in turn, waste are recycled into new products and resources with higher material value and purpose.

Dedicated to raise awareness, provide recycling facilities such as fabric bins, manage effective waste collection, gather data and recycle unwanted items.

Inspired by:



Founding partners:



Strategic partner:



SWCorp is a government agency under Ministry of Housing and Local Government



Y.A.M Tengku Zatashah (Board of Trustees, Selangor Youth Community)



Kloth Cares, Seangor Youth Community, Life Line Clothing & SWCorp



# How Can You #JoinTheMovement & Keep Fabric Out of Landfills?



Adopt a Kloth Cares fabric bin, donate and encourage others to donate too

Find Kloth Cares bins and donate unwanted fabrics

Be part of Kloth Cares Community

# KCFRM Achievements



Fabric Recycling Movement

Since 18.8.18

In 39 months we have collected over

# 1,950,000 KG!

Equivalent to

# 11.7 million

pieces of t-shirts

# > 350

Bins Installed



Across **6 States/ Federal Territories**



Selangor



Negeri Sembilan



Putrajaya



Kuala Lumpur



Melaka



Johor

# > 400

Fabric Recycling Sustainable Network Partners!

## KLOTH CARES FABRIC RECYCLING MOVEMENT

Inspired by



Founding Partners



Supported by



# KEEP FABRICS OUT OF

# LANDFILLS



#2MILLION2SAVE  
SAY#ICARE

## JOIN THE MOVEMENT AND LET'S DIVERT

# 2,000,000KG OF UNWANTED FABRICS AWAY FROM LANDFILLS



ask@kloth.com.my



www.kloth.com.my



klothlifestyle



# What Can You Donate Into Kloth Cares Bins

## What Can You Donate Into Kloth Cares Bins?



### Garments

Including bras and underwear



### Clothing accessories

Scarves, belts, socks/stockings, gloves, caps/hats/headbands, costume jewellery



### Footwear/shoes



### Bags

Backpacks/school bags, purses, handbags, travel bags



### Household textiles

Curtains, towels, blankets, comforters, rugs, rags, table cloths, pillows, bedsheets and pillow covers



### Children's toys

Plush and plastic toys, children's sports equipments



### Fabric remnants

More than 1 metre length

\* Old or new, wear and tear items, we welcome your donations. The items can be deposited loosely, in a bag, or tied together.

Inspired by:



Founding partners:



Strategic partner:



Inspired by:



Founding partners:



Strategic partner:



# Giving New Life to Unwanted Fabrics



Fabrics are sorted into categories

Fabrics are graded into Grade A & B (Wearable/ good condition or unwearable)



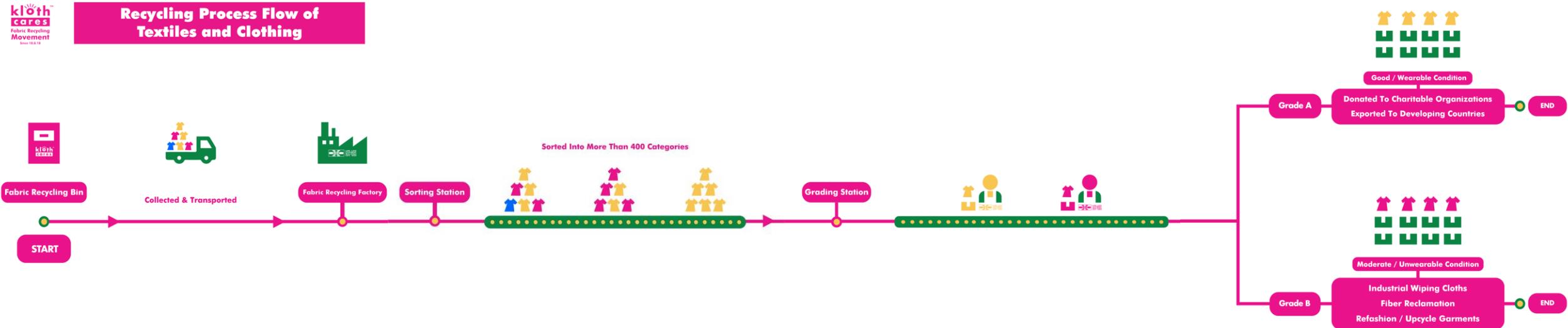
Buttons & zippers are removed from unwearable fabrics to be repurposed



Water absorbent but unwearable fabrics are used as industrial wiping cloths



## Recycling Process Flow of Textiles and Clothing



# Giving New Life to Unwanted Fabrics



KLOTH CARES™ FABRIC RECYCLING MOVEMENT

## Where it all happens

Unwanted fabrics and textiles are given new life at Life Line Clothing Malaysia (LLCM) fabric recycling factory in Pelabuhan Klang, Selangor. Headed by Dale Warren as the chief executive, the factory recycles at least 50 tonnes of local unwanted fabric on a weekly basis. In January 2020, Life Line Clothing Malaysia received accreditation to the international standard, ISO 14001:2015 for the Environmental Management System (EMS) that was set up in their factory.



Dale Warren, CEO, Life Line Clothing Malaysia



LLCM is ISO 14001 certified (Environmental Management System)



Fibre reclamation



Donations

"Some textile recyclers just collect and sell whatever they can, and the rest is landfilled."

**We take fabric recycling to the next level."**

Dale Warren - CEO Life Line Clothing Malaysia



Photos by Adelyn Ghwee



Industrial wiping cloths



Refashion / Upcycle fashion (Good to use fabrics are made into Woman Up products)



# Woman Up by Kloth Cares

kloth  
cares

## WomanUp

### Rising with #SHEconomy

Committed to improve the livelihoods of women especially from the impoverished, struggling and vulnerable communities through job opportunities. Leaving no one behind, we uphold our core values and are driven to include women into the formal or informal sectors, including physically impaired and with health challenges. Woman Up is also passionate to raise the standards of living, mental wellbeing and mojo amongst the youths and senior citizens.



A total of 20 women  
as beneficiaries



> 16,000 pcs  
of face masks



3,500 pcs of  
upcycled  
Raya  
pouches



30 pcs of denim  
frayed pouches

July 2020 (Launched) – October 2021 (Now)

Payment made to Woman Up ladies (B40 household):

> RM 90,000

Payment made (and allocated) to other NGOs:

RM 15,000

Total products produced: > 19,000 pcs



17 pcs of multi  
pocket organisers



30 pcs of denim  
cable holders

# What's Next for Kloth?

**kloth**<sup>TM</sup>  
**cares**  
Fabric Recycling  
Movement  
Since 18.8.18

Collecting  
2,000,000 KG  
in 1 year

**KLOTH CARES FABRIC RECYCLING MOVEMENT**

Inspired by  Founding Partners    Supported by 

**KEEP FABRICS OUT OF LANDFILLS**

**#SAY#CARE #2MILLIONSAVE**

JOIN THE MOVEMENT AND LET'S DIVERT **2,000,000KG** OF UNWANTED FABRICS AWAY FROM LANDFILLS

[ask@kloth.com.my](mailto:ask@kloth.com.my) [www.kloth.com.my](http://www.kloth.com.my) [klothlifestyle](#)

Rising with #SHEconomy  
Generating RM300k income for  
Woman Up Community in 1 year

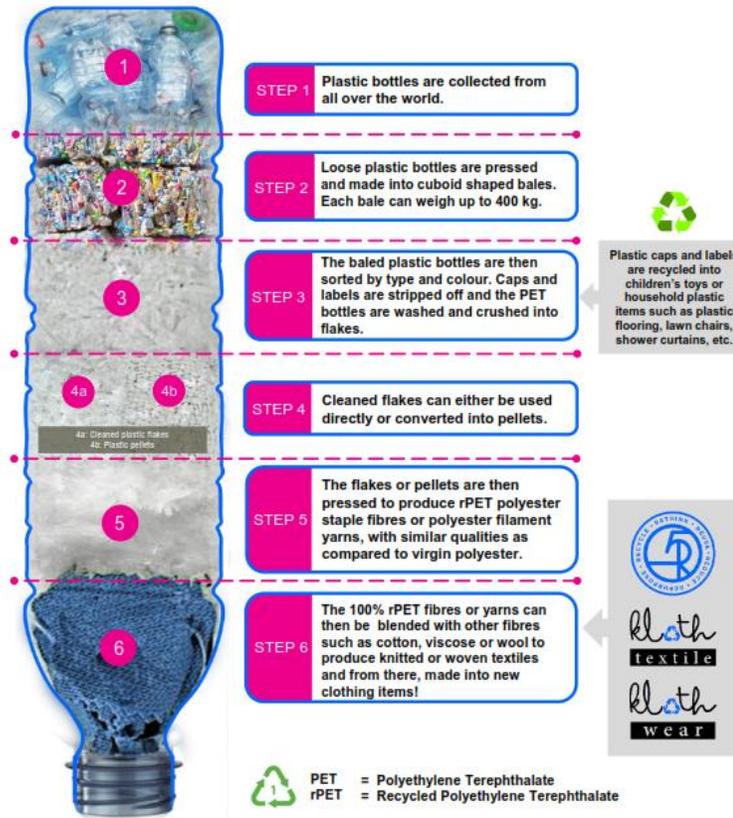


# What is Kloth Lifestyle?



An environmental, economic and social impact brand that is committed to catalyse the plastics circular economy. Our approach in addressing plastic waste is through the establishment and developments of value chains and movements where multi stakeholders join hands to divert waste from the landfills as well as oceans and in turn, waste are recycled into new products and resources with higher material value and purpose.

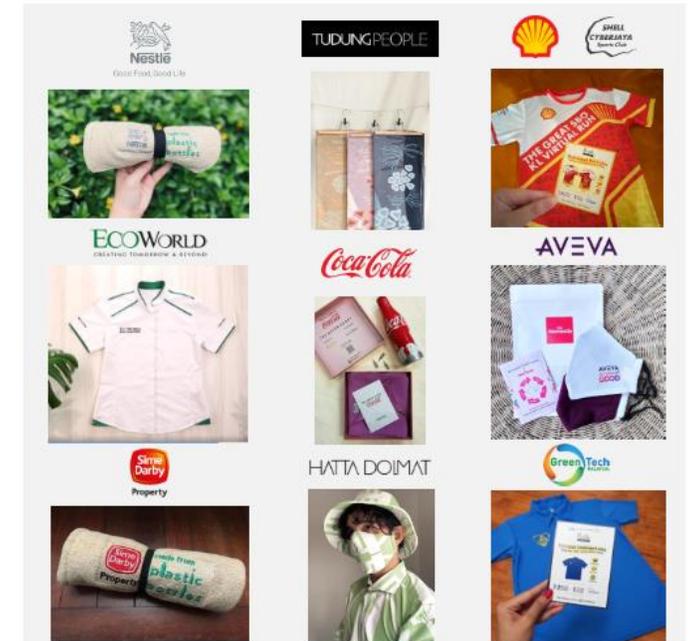
## kloth lifestyle | Textiles Made from Recycled Plastic Bottles Manufacturing of polyester textile by recycling plastic bottles (PET)



Let's keep plastic bottles out of landfills and oceans!

## kloth lifestyle | Textiles Made from Recycled Plastic Bottles

### Clients & Partners



Certified by: Global Recycled Standard

Let's keep plastic bottles out of landfills and oceans!

# KLOTH LIFESTYLE VALUE PROPOSITION: Catalysing Circularity for E.S.G in Malaysia & S.E.A



Establishment  
of Kloth Circular  
Plastic  
Recycling  
Movement  
(KCPRM)

Collection of  
plastic bottles;  
Plastic recycling  
bin & machine  
adoption, plastic  
buyback

Conversion of  
plastic bottles  
into flakes

Bottle to  
bottle OR textile  
& other products  
made from  
recycled plastic  
bottles

# Enhancing Plastic Bottles Collection



## CRUSH-IT REVERSE VENDING MACHINE

Machine weight: 400kg

Capacity: 7kg PET bottles and 9kg aluminium cans

Dimension: 1000mm (L) x 1000mm (W) x 1900mm (H)

LCD Display:

i) Advertising panel (left): 19"

ii) Instruction panel (right): 16"

Types of waste collected:

- PET plastic bottles & aluminium cans

## CRUSH-IT RECYCLING BIN

Bin weight: Approx 15kg

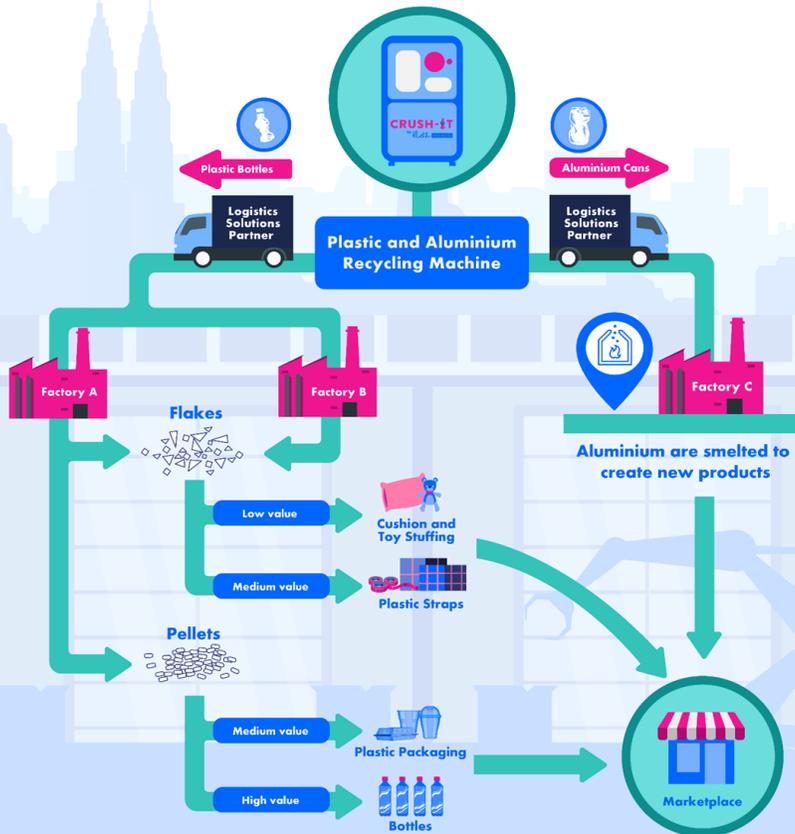
Capacity: 3kg pressed PET bottles

Dimension: 500mm (L) x 500mm (W) x 1200mm (H)



# How Plastic Bottles Are Recycled

## Recycling Process Flow of Plastic Bottles and Aluminium Cans



Weekly scheduled collection at site performed by Kloth logistic partners. Collected plastics will be sent to licensed scrapyards/owners/recyclers to be recycled into new products.



Plastic straps



Plastic bottles



Garments



Polyester stuffing

## Our brands, Sustainably Made

Sourcing, marketing and distributing high quality fabric made from recycled plastic bottles (rPET), organic cotton and other sustainable materials.



kloth  
textile



kloth  
wear

Designing, sewing and marketing wearable products including garments, clothing accessories, bags, promotional merchandise & household items. Produced from high quality recycled and sustainable materials sourced by Kloth Textile.





# Clients & Partners

More than

# 150,000

post-consumer PET bottles are saved from going into the landfills and oceans.



Good food, Good life



HATTA DOIMAT



AVEVA



# Education Components

## Know Your Plastic Bottles



Plastic drinking bottles or **polyethylene terephthalate (PET)** bottles were developed by Nathaniel Wyeth in 1973



Plastic bottles became popular due to its **functionality, durability and cost effectiveness**



Plastics production has surged over the past 50 years, from **15 million tonnes** in 1964 to **311 million tonnes** in 2014



Every minute, **1 million** plastic bottles are sold across the world



Plastic bottles are a **thermoplastic material** which can be **melted and hardened repeatedly**



The production of bottled water uses **17 million** barrels of oil a year, which is slightly more than the annual fuel use of **1 million cars**



It takes **2,000 times** more energy to manufacture a bottle of water than tap water

**Clear plastics** have the highest material value compared to coloured plastics

References: How the plastic bottle went from miracle container to hated garbage. National Geographic. (2019); The Many Challenges of Plastic Recycling. Sustainable Brands. (2015); Integrity of Science: Bottled Water and Energy Factsheet: Getting to 2.7 Million Barrels. The Plastic Institute. (2007); Single-Use Plastics: A Roadmap for Sustainability. United Nations Environment Programme. (2018); The New Plastics Economy: Redefining the Value of Plastics. World Economic Forum. (2016)



## Dangers of Plastic Pollution

### THE WASTE SITUATION

Among the plastic packaging that is disposed globally, **72% is not recycled** at all:



**40%** is landfilled

**32%** is illegally dumped



Each Malaysian generates **1.17 kg of waste** daily



**24.9%** of waste in Malaysian landfills are plastic!



The global average for plastic recycling is only between **14 - 18%**

**“ IN 2019, PLASTIC DRINKING BOTTLES WERE THE MOST COLLECTED MARINE WASTE IN MALAYSIA ”**

### THE CRISIS

At least **8 million tonnes** of plastics leak into the ocean each year

That's the equivalent of throwing **(one) garbage truck's** worth of garbage into the ocean every minute

If no action is taken, this is expected to increase to

**2030** & **2050** per minute by

**Plastic packaging** represents the major share of this leakage

**Biodegradation** of plastic bottles is estimated to take **450 years**

### THE EFFECTS

In 2012, total plastic emissions (not just packaging) totalled around **390 million tonnes of CO2**

CO2 is a contributor to global warming which harms people and the planet

There will be more plastic than fish (by weight) in the ocean by 2050

Plastic is killing more than **1.1 million seabirds** and animals every year

References: How the plastic bottle went from miracle container to hated garbage. National Geographic. (2019); Single-Use Plastics: A Roadmap for Sustainability. United Nations Environment Programme. (2018); Most collected types of marine waste in Malaysia in 2019. Shellix. (2021); Kompendium perisian sara perniagaan. SWCorp. (2019); The New Plastics Economy: Redefining the Value of Plastics. World Economic Forum. (2016); Factsheet: Marine pollution. The United Nations Ocean Conference. (2017).



EVERY YEAR

# 1.1 MILLION SEABIRDS AND ANIMALS ARE DYING

DUE TO PLASTIC POLLUTION

Reference: Factsheet: Marine pollution. The United Nations Ocean Conference. (2017).



Every minute, **1 MILLION PLASTIC BOTTLES** are sold across the world

Reference: Single-Use Plastics: A Roadmap for Sustainability. United Nations Environment Programme. (2018).



# kloth

Since 11.12.13

# kloth

lifestyle

## Let's keep fabric and plastic out of landfills and oceans!

# THANK YOU

**kloth**  
**cares**  
Fabric Recycling  
Movement  
Since 18.8.18



In line with

**SUSTAINABLE DEVELOPMENT GOALS**



**kloth**  
**cares**  
**WomanUp**

In line with

**SUSTAINABLE DEVELOPMENT GOALS**



**kloth**  
**circular**  
Plastic Recycling  
Movement



**CRUSH-IT**  
by **kloth** **cares**

In line with

**SUSTAINABLE DEVELOPMENT GOALS**



**kloth**  
textile

**kloth**  
wear



In line with

**SUSTAINABLE DEVELOPMENT GOALS**



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