ANIL AGARWAL DIALOGUE
2024

New Challenges: Plastic We Wear
Ms. Ina Bahuguna : Hasiru Dala
Collection: **130811 Kg**

**Number of people working at the DWCC**: 40

**Number of sorting training**: 12

**Stakeholders**: Sorter, Operators, citizens, HD, RWA, Funders, BBMP, Recyclers, buyers

**Felt Material is used to make so many things!**
“One washing load of clothes could be shedding up to 17 million tiny plastic fibres.” - Report *Reducing Household Contributions to Marine Plastic Pollution*

Many of our clothes contain plastics like polyester, nylon, acrylic and polyamide. Most new fabrics are made of plastic – up to 64% of them.
FIGURE 3 DIFFERENT TYPES OF NATURAL AND SYNTHETIC FIBERS (32)

FIBRES

NATURAL FIBRES
- ANIMAL
  - SILK
  - WOOL
  - ETC.
- VEGETABLE
  - BAST
  - FLAX
  - HEMP
  - JUTE
  - KENAF
  - RAMIE
  - ETC.
- MICROBIAL
  - LEAF
  - ABACA OR MANILA
  - HENEQUEN
  - PHORMONIUM
  - TENAX
  - SISAL
  - ETC.

MAN-MADE FIBRES
- REGENERATED
- SYNTHETIC
- MINERAL
  - VISCOSE
  - ACETATE
  - CUPRAMPONIUM
  - LYOCELL
  - ETC.
  - POLYESTER
  - NYLON
  - ACRYLIC
  - POLYPROPYLENE
  - ETC.
  - GLASS
  - GOLD
  - SILVER
FIGURE 4  GLOBAL FIBER PRODUCTION INCREASE SINCE 1980  (THOUSAND METRIC TONNES)

SOURCE: TECNON ORBICHEM
EPR Policies Programs Today (source: OECD)
Investment in to Recycling

Mechanical Recycling

Textile Waste

Closed Loop Mechanical Recycling

Opened Loop Mechanical Recycling

Mechanical recycling

Cutting & Pulling

Fibres

Textile blowing process

Web forming

Drying

Textile to winding

Production of woolen yarn

New textile product

Insulator pads for mattresses

Chemical Recycling

Chemical recycling of textile waste

Polyester (glycolysis)

Textile fibres

Cotton (ionic liquids)

Sectors

Chemical products

Yarn and fibre manufacturers
Case Study: **Renewcell file for Bankruptcy**

Product is called Circulose®, and we make it out of 100% textile waste. Brands use it to replace high impact raw materials like fossil oil and cotton in their textile products. Learn more about Circulose

Swedish Company: Due to Lack of funding
Thank You