

Reverse Resources



CIRCULARITY AND ITS OPPORTUNITIES FOR THE INDIAN APPAREL SECTOR

MARCH 2022







AGENDA MARCH 07TH 4:00 - 5:00 PM IST

- 01 Opening Remarks by the AEPC Chairman
- 02 Circularity and Its Importance for apparel value chain
- The untapped opportunities that pre-consumer textile waste offers to the Indian Apparel industry
- Snapshot of the Sorting for Circularity Project and How AEPC members can participate
- 05 Closing remarks by the AEPC Secretary General
- 06 Q&A session





OPENING REMARKS

BY CHAIRMAN, AEPC



SH. NARENDRA GOENKA
AEPC Chairman





SPEAKERS INTRODUCTION



NIN CASTLE
Co-founder and Chief Programs Officer
Reverse Resources



PRIYANKA KHANNA Head of Asia Expansion Fashion for Good



MUKUL AGGARWAL Chief Sustainability Officer, Birla Cellulose





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WHAT IS CIRCULARITY?

LINEAR VS CIRCULAR SUPPLY CHAINS

Current Linear Supply Chain



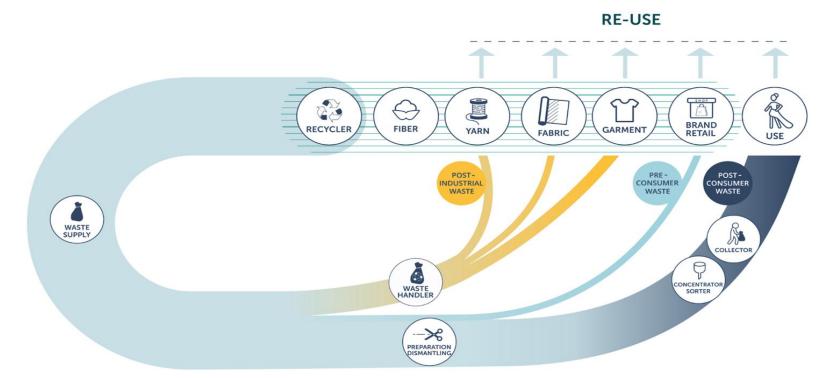






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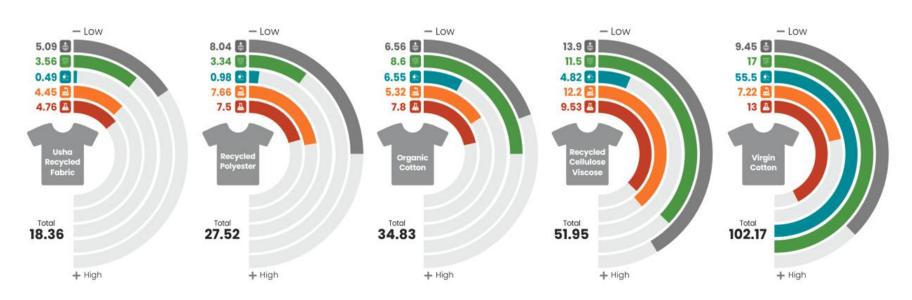






WHY IS CIRCULARITY IMPORTANT?

SUSTAINABILITY



Example: Usha Yarns' Score on the Higgs' Index Sustainable Material Impact Meter





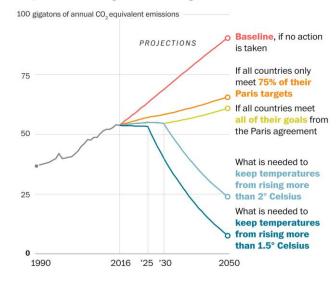
WHY IS CIRCULARITY IMPORTANT?

BRAND DEMAND



Emissions targets to cool a warming planet

Even if all countries hit their targets under the Paris agreement, global carbon dioxide emissions will still far exceed what is needed to keep temperatures from rising above 1.5 or 2 degrees Celsius.



Data is based on scenarios from Climate Interactive.

Source: Climate Interactive

THE WASHINGTON POST







SORTING FOR CIRCULARITY INDIA BRAND PARTNERS



LEVI STRAUSS & CO.



















VERTICALLY INTEGRATED COMPANY'S TESTIMONIAL ON NEED FOR CIRCULARITY









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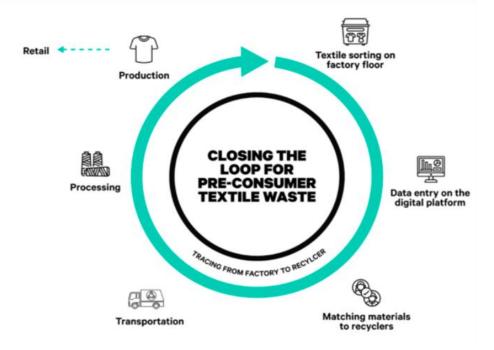
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THERE IS A HIGH VOLUME OF POST AND PRE CONSUMER WASTE IN INDIA, WHICH IF MAPPED AND SORTED, CAN



A) Be used as quality feedstock for recycling technologies

B) Promote a circular textile value chain by closing the loop







IN RELATION TO INDIAN TEXTILE INDUSTRY









IN RELATION TO INDIAN TEXTILE INDUSTRY



Fibre-to-Fibre Mechanical Recycling (Cotton)

Thermo Mechanical (Synthetic)

New Generation Mechanical Recycling







IN RELATION TO INDIAN TEXTILE INDUSTRY



Regenerative (aka Chemical Recycling)

- Cellulosic
- Synthetic
- Blends







IN RELATION TO INDIAN TEXTILE INDUSTRY



Others: Recycrom / Natural Fiber Welding







RECYCLING TECHNOLOGIES AND THEIR

ESTIMATED SCALING PLANS IN 5 YEARS







REDEFINING TEXTILE WASTE

AS RESOURCE







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SORTING FOR CIRCULARITY INDIA PROJECT

BRINGS TOGETHER THE KEY ACTORS TO CLOSE THE LOOP ON TEXTILE WASTE

FASHION FOR **ORCHESTRATO BRANDS PARTNERS ECOSYSTEM PARTNERS Project LEVI STRAUSS & CO.** SU.RE by ATTVA adidas APPAREL EXPORT TESCO F&F R SE 0 PROMOTION COUNCIL PVH CITİ **SUPPLY CHAIN INVESTORS AND PARTNERS FUNDERS** Arvind **WELSPUN INDIA** Laudes -- Foundation **INNOVATORS**





SORTING FOR CIRCULARITY INDIA

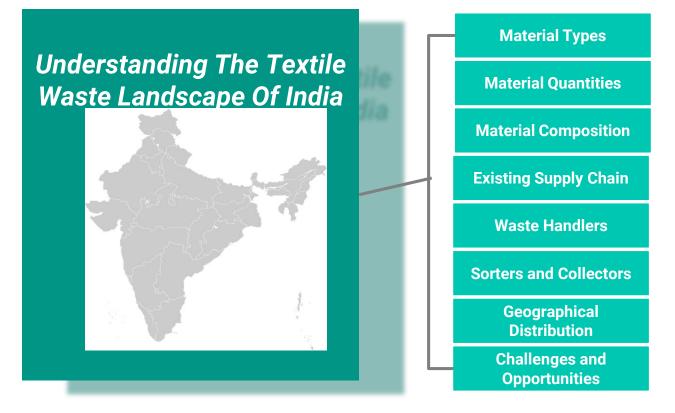
PROJECT OBJECTIVES

- Understand the **current textile waste material flow in India**, including flows (volumes, categories, values) of textile waste i.e. a) pre-consumer b) post-consumer domestic c) post-consumer imported
- Identify technologies that can assist in mapping and sorting of the pre and post-consumer waste to address the textile waste challenges in India
- Pilot the solutions to prove the efficacy of the technologies identified
- Build a roadmap for the **implementation** of these solutions along with **brands, manufacturers,** recyclers and other stakeholders





TEXTILE WASTE MAPPING STUDY OVERVIEW







TEXTILE WASTE MAPPING STUDY OBJECTIVES OF PRE CONSUMER WASTE STREAM

- Focus on pre consumer textile waste while having access to waste data coming from Manufacturing Units
- Consolidate and analyse the collected data with the support of Reverse Resources survey link
- Understand the current pre consumer textile waste material flow in India, including volumes, compositions, types, values, stakeholders involved and their challenges as well as opportunities
- Create a report with insights to be shared with the larger industry and assist in identifying the relevant technologies, stakeholders and regions for future pilots





AEPC MEMBERS' PARTICIPATION IN TEXTILE WASTE MAPPING STUDY

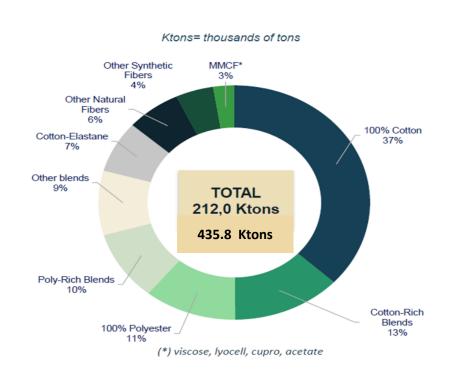
Take a short and simple waste survey; will not take more than 15-20 minutes to fill in if you have all the information available

- Survey is designed to collect all necessary information about what textile waste is generated in your operations and how it is managed
- Will help us understand the **types, volumes and handling processes and the challenges** faced in the textile waste landscape
- Data collected will be subject to full confidentiality within the scope of the project activities and will only be used in aggregated form; individual information or private data will not be shared out





MANUFACTURER SURVEY TO AID UNDERSTANDING OF TEXTILE WASTE GENERATION BY FIBRE







SNAPSHOT OF THE MANUFACTURER SURVEY

What is manufactured in your fac	ility?
Select	
What is the monthly average prod	duction volume of ?
Please write down the actual product	tion volume (last month or average of 3 last months if it fluctuates a lot), not potential ca
PRODUCT	VOLUME UNIT
What are the most common comp	positions of fiber or fabric running through the production on a regular basis?
MATERIAL	SHARE %
How much waste do you generate	e from your facility / production unit per month on average?
	e provide a rough estimate of minimum you could provide to recyclers.
MATERIAL	VOLUME
	Total: 0 kg





SNAPSHOT OF THE

MANUFACTURER SURVEY

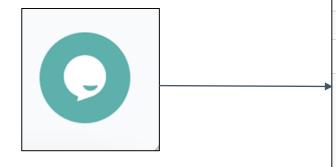
How do you usually dispose of waste o	urrently?					
WASTE TYPE	DISPOSAL METHOD	SHARE % FOR TYPE				
If you sell your waste, what's the avera	ge price (with currency)?					
How much waste could you potentially store in your premises?						
tonnes						
How often do you prefer a collector pick up the waste from the facility on a regular basis?						
After every	days					
Which of the waste management and p	preparation steps are possible to be done by your facility o	or will become available within next 3 months?				
Select						





TECHNICAL SUPPORT FOR

MANUFACTURER SURVEY



Chatbox functionality available during working hours of the day. In case of any queries or troubleshooting required, please utilize this feature

back to you as soon as possible.
* Name
*Email
* Message





A survey link with tutorial video will be shared via email today

Request you to fill and complete the survey link. The deadline is March 14th





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VOTE OF THANKS

BY SEC. GENERAL, AEPC



Dr. L B SINGHALSecretary General AEPC





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QUESTIONS AND ANSWERS SESSION

