



de brand

v. responsible corporate disposal



The Shirt Off Your Back

Inside the World
of Textile
Recycling

Presented by:
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debrand Services Inc.
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OUTLINE

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CATEGORIES OF WASTE

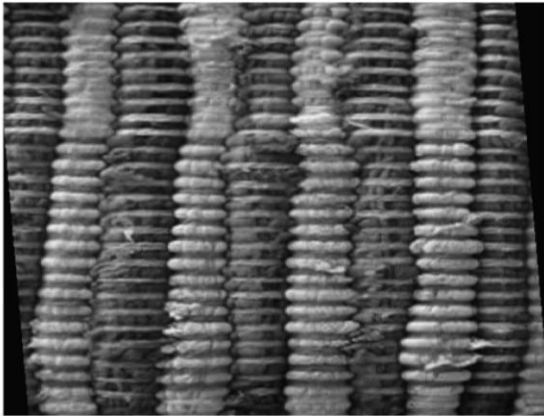
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- **Pre-Consumer:** by-product materials from textile and fiber industries
- **Post-Consumer:** any type of clothing and household made of manufactured textile



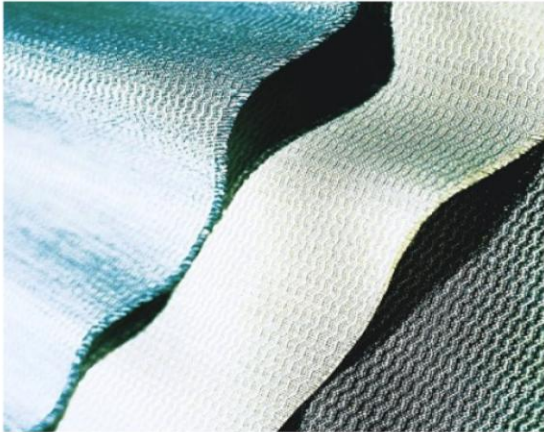
NATURAL VS. SYNTHETIC

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Natural - animal, plant, mineral

- Includes wool, cotton, hemp



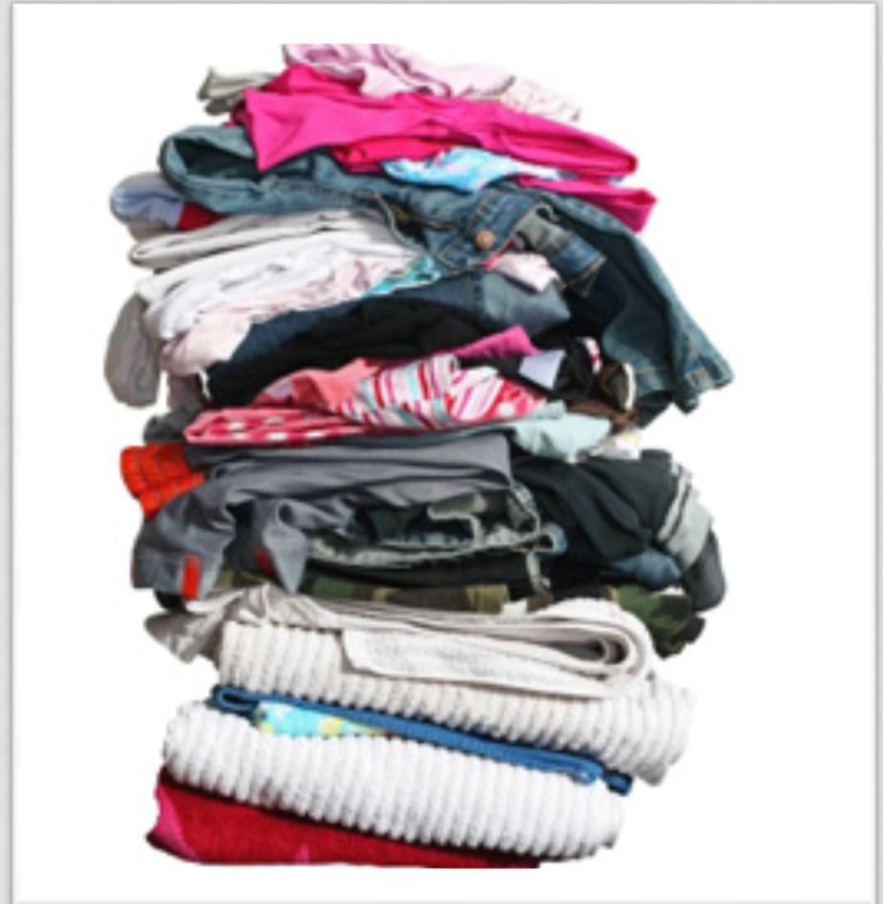
Synthetic - petroleum-based

- Includes polyester, nylon, rayon, spandex

In with the New

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- In 2010 Canadians spent over 30 billion dollars buying new clothes
- That's around 1,133,700,000 units with an average 5.16% increase each year



OUT WITH THE OLD

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- Per capita Canadians discard 7 kg of textiles per year
- Say even 10% sent to landfill that equals 21 million kgs of textile waste per year
- Textiles contribute to 4-5% of all landfills



FILLED TO THE BRIM

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- That equals 154,000 bales of compressed textiles
- If placed end to end that would take us from Whistler to Horse Shoe Bay and back



NATURAL LIFESPAN

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Natural Fibers can take hundreds of years to decompose.

In the landfill they release methane & CO₂ into the atmosphere.

FOREVER YOUNG



Synthetic Fabrics were built to last and will not decompose

- When landfilled they release toxic containments into waterways and surrounding soil systems
- When produced they create nitrous oxide, 310 x more potent than CO₂

Sound Familiar?

Well It Should!

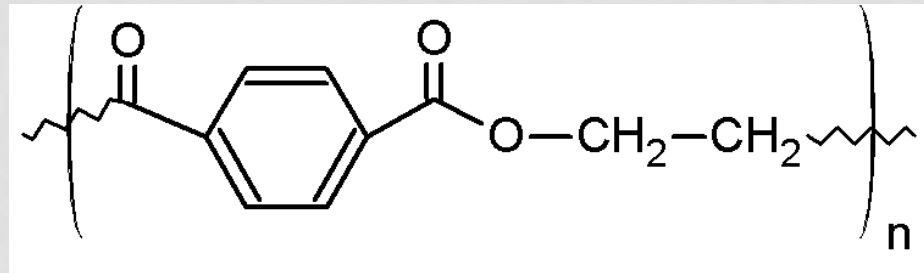
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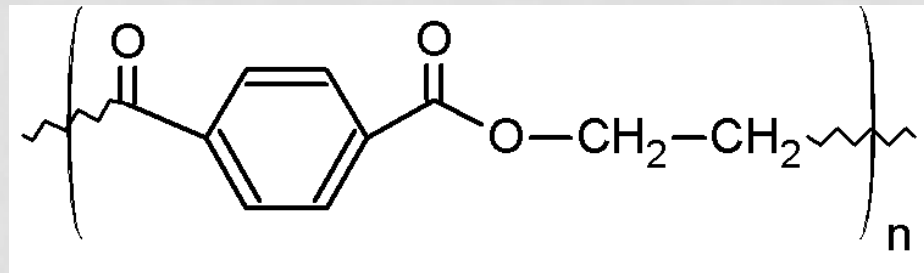
One and the Same

Polyethylene Terephthalate

Polyester Shirt =



Plastic Water Bottle =



SEA OF PLASTIC

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World-wide awareness on the harmful impact of plastic bottles has grown substantially in recent years

This same awareness is needed to help combat the damaging effects of textile waste



DAYS OF RAG & BONE

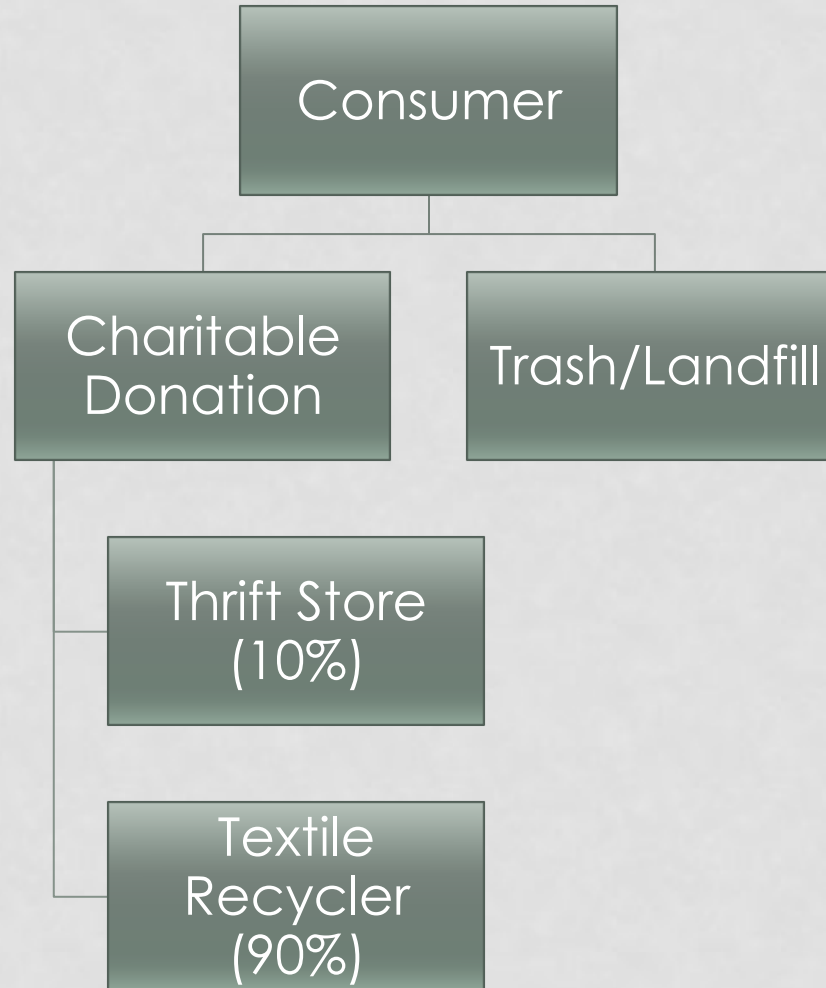
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- Textile reuse first originated 200 years ago in England
- The rag & bone men of days past collected used clothing to be reused in a variety of ways



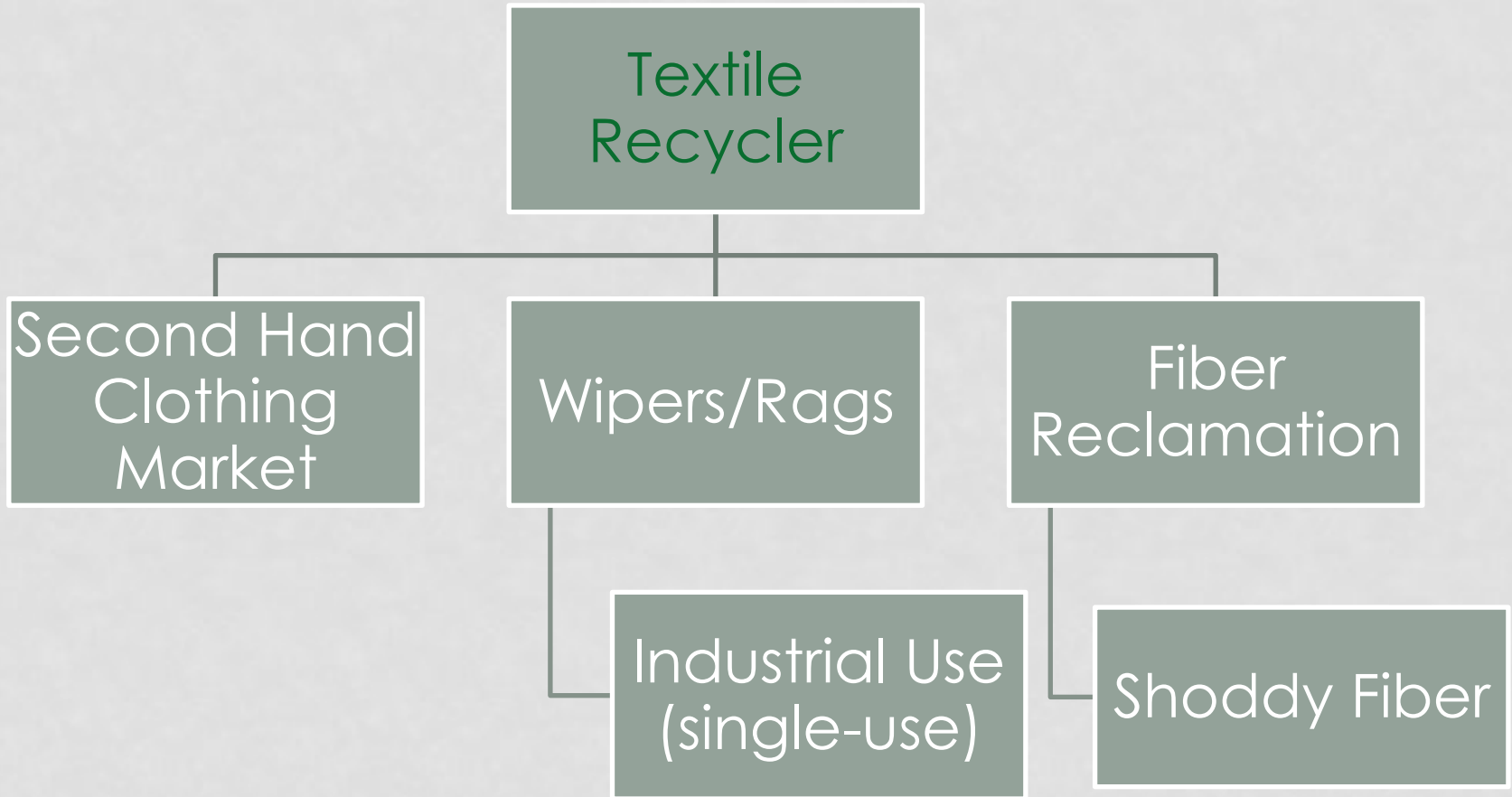
Textile world Today

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Today's Rag & Bone Men

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Second Hand Clothing Market

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Today:
45% of collected items overseas to less developed countries. Great controversy surrounding the industry.

- Traditional dress
- Local industry
- Piracy/Fraud
- Increased waste

Tomorrow:
Monitored donation program, no resale. Bans on quantities and grades



“The African Sub-Sahara receives 26.8% of the world’s used textiles. Many claim this led to significant decline in the local textile industry”

WIPING RAGS



Today:

Approximately 35% of used textiles are sliced, bleached and sold as industrial wiping rags.

Tomorrow:

Once contaminated with industrial waste the rags quickly find themselves in local landfills and/or incinerators. Limited demand & therefore limited opportunity.

FIBER RECLAMATION



Today:

- Approximately 20% are reclaimed for fiber reuse. Fiber mills reduce garments to a reusable fiber materials to be used in various applications such as insulation, automotive and furniture stuffing.
- With the smallest return this is often the last resort despite long-term reuse and viable demand

Now/Tomorrow:

- Promising demand, opportunity for new applications, secure, responsible and cost-effective means of reuse for corporate/secure garments, local processing centres
- * Potential for full molecular reclamation (Teijin) similar to 100% poly garments.

RESPONSIBLE TEXTILES

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- Around the world hundreds of millions of tons of damaging textile waste enter our landfills each year
- Recognizing the serious impact textiles have on our landfills the MOE identified them in Phase 2 of the Canada Wide Action Plan on EPR

Textile Stewardship?



Thank you!

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“In the future we may find ourselves mining old landfills for valuable resources such as aluminum and scrap metal”

For more info contact:
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