Using Tools to Understand Environmental Impacts in the Fashion Industry

Can the Circular Economy Save the Textile Industry?

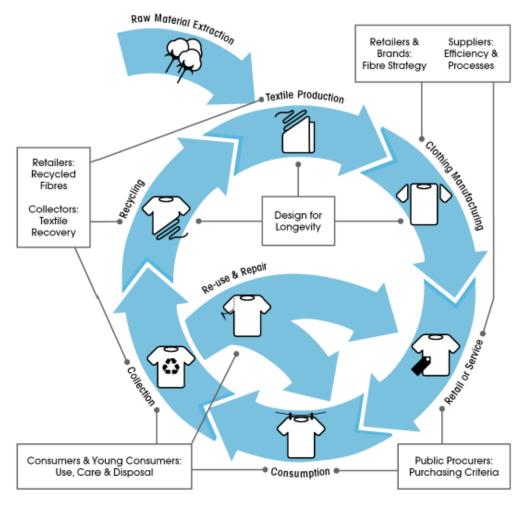
15th February 2016



www.made-by.org

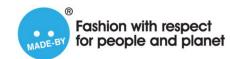
Identifying opportunities to close the loop





To understand the opportunities that exist for a more circular business model its important to first understand your key impact hotspots/bottlenecks and prioritise accordingly

Understanding Impact in the Supply Chain



- The broader environmental impacts and issues associated with the apparel industry are largely acknowledged:
 - Carbon
- Water
- Waste
- However, at brand level many find it difficult to measure and prioritise impacts
- Many brands struggle to understand and baseline the hotspots in their supply chain
 - Multiple suppliers
 - Complex and often limited data sets
- The fashion supply chain is largely opaque
- A large proportion of the environmental burden sits with the consumer- use & disposal
- An estimated 350,000 tonnes of clothing ends up in landfill each year in the UK



The England Suit





Tools for Measuring & Communicating Impact



- Tools are only as good as the data available
- Impact and opportunities have to be communicated clearly and concisely
- Must be relevant to the needs of the industry
- Allow for modelling and benchmarking



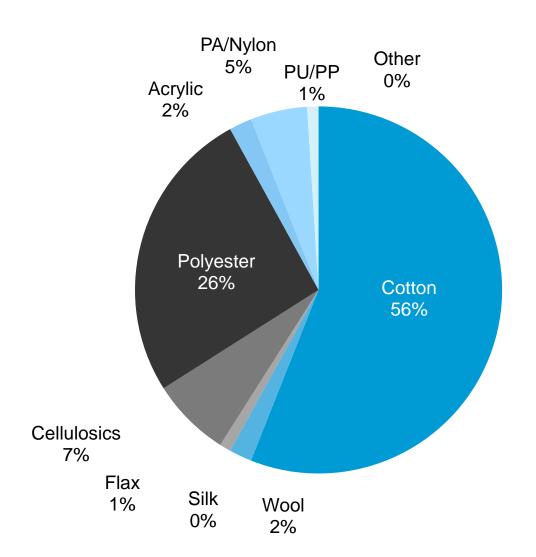
SCAP Footprint Calculator





Fibre Mix of a Small/Medium UK Brand





Available Scenarios	
☐ 1. Conventional Cotton to BCI Cotton	20%
2. Conventional Cotton to Organic Cotton	20%
☐ 3. Conventional Cotton to CMiA	20%
☐ 4. Virgin Polyester to Recycled Polyester	20%
5. Viscose to Lyocell	20%
☐ 6. Cotton to Polycotton	10%
☐ 7. Eco-efficiency in raw material/fibre pro	dı 10%
□ 8. Eco-efficiency in yarn production	10%
9. Eco-efficiency in fabric production	10%
☐ 10. New fabric dyeing	10%
☐ 11. Eco-efficiency in cutting and making-u	ır 25%
☐ 12. Longer lifetime for new clothing	100%
☐ 13. More UK reuse of pre-owned garment	ts 100%
☐ 14. Change in consumer laundry behavio	u 100%
☐ 15. Increase in collection for reuse/recycl	ir 100%
☐ 16. Hire and repair services dematerialise	100%

The Higg Index









The Coalition

Our Members

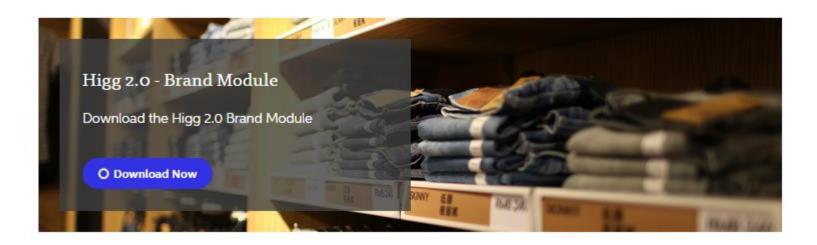
The Higg Index

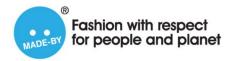
Collaboration & Impact

Get in Touch

In the Media









MADE-BY Environmental Benchmark for Fibres



MADE-BY www.made-by.org

MADE-BY ENVIRONMENTAL BENCHMARK FOR FIBRES

CLASS A	CLASS B	CLASS C	CLASS D	CLASS E	UNCLASSIFIED
Mechanically Recycled Nylon Mechanically Recycled Polyester Organic Flax (Linen) Organic Hemp Recycled Cotton Recycled Wool	Chemically Recycled Nylon Chemically Recycled Polyester CRAiLAR® Flax In Conversion Cotton Monocel® (Bamboo Lyocell Product) Organic Cotton TENCEL® (Lenzing Lyocell Product)	Conventional Flax (Linen) Conventional Hemp PLA Ramie	Modal® (Lenzing Viscose Product) Poly-acrylic Virgin Polyester	Bamboo Viscose Conventional Cotton Cuprammonium Rayon Generic Viscose Rayon Spandex (Elastane) Virgin Nylon Wool	Acetate Alpaca Wool Cashmere Wool Leather Mohair Wool Natural Bamboo Organic Wool Silk

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bW@ This Benchmark was made in cooperation with Brown and Wilmanns Environmental, LLC. For further information on this Benchmark see www.made-by.org/benchmarks

MADE-BY Wet Processing Benchmark



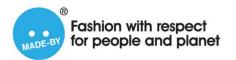
Wet Processing Benchmark: Dyeing



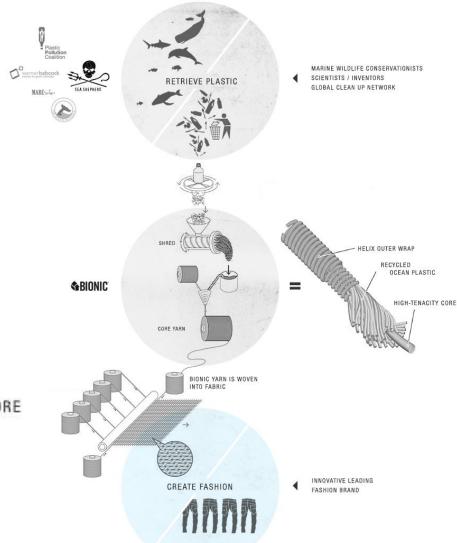


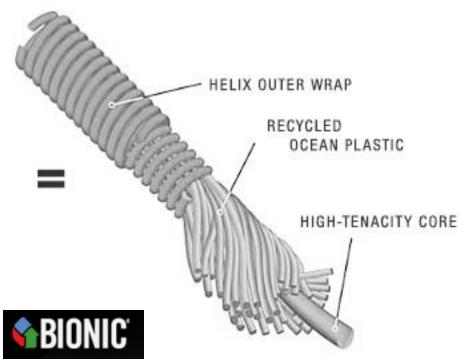
Examples

Recycled Polyester

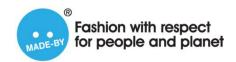


"Raw for the Oceans" denim collection from G-Star and Bionic Yarn containing yarn spun with fibers from recycled plastic waste recovered from oceans and coastlines





H&M Recycled Denim Capsule Collection



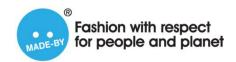






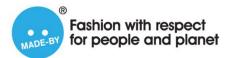


Mud Jeans - 'Lease a Jeans'



- Launched January 2013
- Organic + Recycled Cotton
- Jeans are leased, making sustainable denim more affordable for all consumers
- Leased jeans costs an initial fee of 20 Euros and a monthly fee of 5 Euros during the one year leasing period
- Throughout the full term of the lease, the jeans will be repaired for free.
- After one year, the consumer can bring the jeans back to the brand. Mud Jeans will then decide if the jeans can be re-used, repaired or recycled.
- Since expanded: Lease a Fleece & Lease a Bag





Thank you