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PILLAR 1

Session 1.1

High value products from zero-value waste textiles and fibres via design driven technologies

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Taking waste & making new fibres

New fibres from pre-consumer and post-consumer waste









































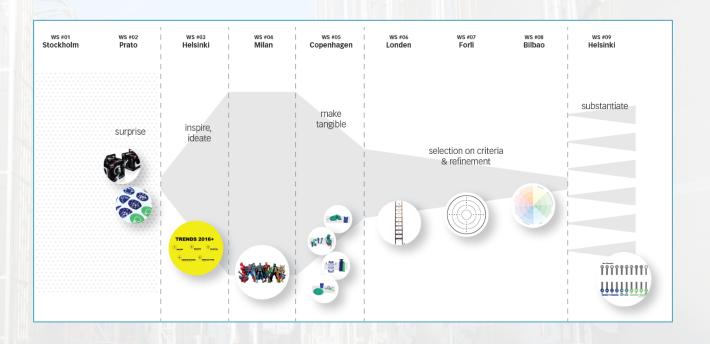






TRASH-2-CASH | PROCESS















The most certain way to fail is to only focus on preducts. SUSTAINABILITY Successful innovation is all about broad relevance.







TEN TYPES OF INNOVATION | RELEVANT INNOVATION













0° Shirt

By law, cars of the future will be increasingly required to use recycled and recyclable materials in their production.

The Trash-2-Cash recycling technologies allow the proposal of new modes for manufacturing visually appealing, high-quality automotive interior plastics using recycled plastic pellets, recycled textiles and recyclable resin.

Fashion Fascia



R³ Coat



Performance layers are soft and functional, wicking moisture away from the wearer's skin. But unfortunately the materials currently used for mid-layer garments have large environmental impacts. This alternative mid-layer material made from recycled cotton has hydrophobic properties added to the fibre, ensuring sustainability does not compromise performance.

ReAct Mid-layer

Polyester-Cotton blends are the most common materials used in clothing. Elastane, added for the manufacture of stretchy jeans, seriously disrupts textile waste sorting and recycling. DenAture Jeans are made from yarn that is both recycled and recyclable. Trash-2-Cash researchers have replaced the troublesome elastane with stretchy, recycled polyester, and used an innovative elastic weave structure, ensuring that the comfort and performance of the garment is maintained.

DeNAture Jeans



Polyester fleece was revolutionary in the 80's but is now known

Reborn - Reworn Jacket

to be hugely harmful to the environment due to the shedding

of microplastic particles. This natural fleece is made of soft

and warm micro-fibres, produced from recycled cotton

textiles, that will not accumulate in the environment.







