Sustainable Textiles

Cheryl Kindness

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Who are we ?

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TRUSTED by the world's best furniture manufacturers

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SPECIFIED by the world's top architectural practices

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CHOSEN by the world's blue-chip corporations

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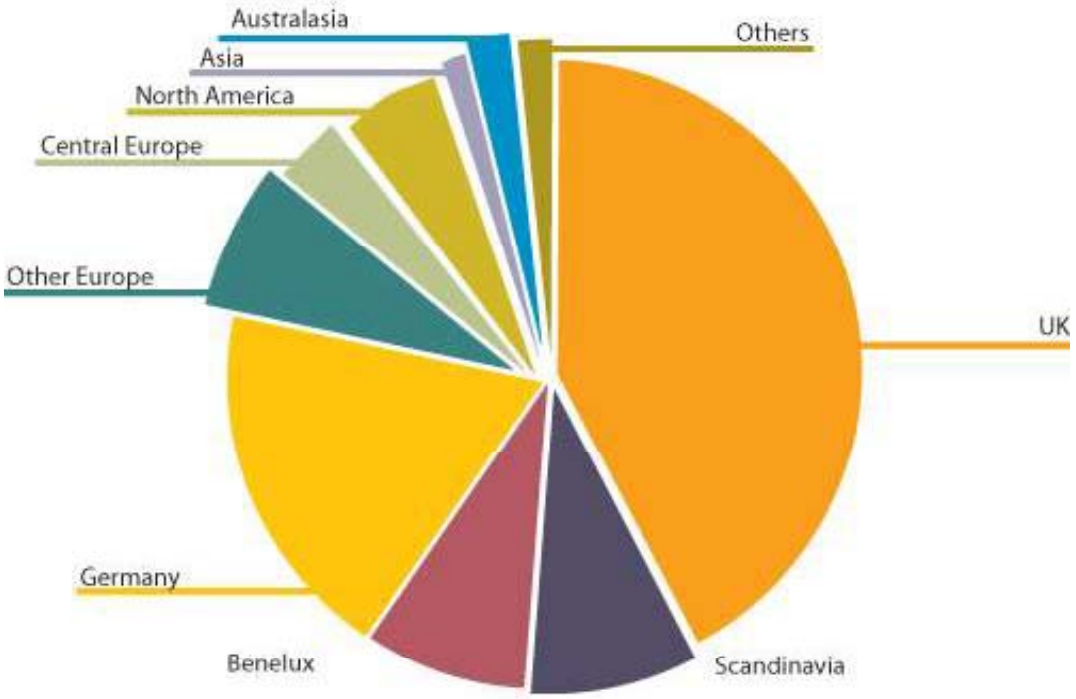
We are an international story

Geographic split



8 million metres / year =
150,000 metres/week =

25,000 metres/day:

73% contract,

27% transport

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Overseas offices & warehousing

Germany

Denmark

USA

China

Hong Kong

Australia

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Market sectors

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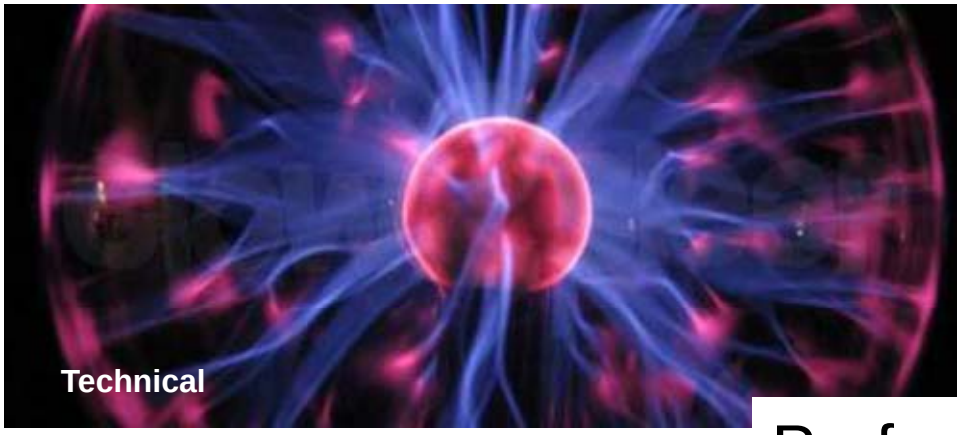
Product Development



Performance

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Environmental branding

“Designers are in a powerful position to create a better world… Or to contribute to further destruction.”

Victor Papenek, Design for the Real World

second nature
recycled

second nature™
renewable & compostable

second nature
climate neutral

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What would you wear if you were a chair?
Rapidly renewable natural materials: resources that can be replenished on an annual basis

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Fiber types

Natural fibers

- Animal – rapidly renewable
- Plant – rapidly renewable

Man-made

- Petroleum based synthetics – finite
- Natural polymers - renewable

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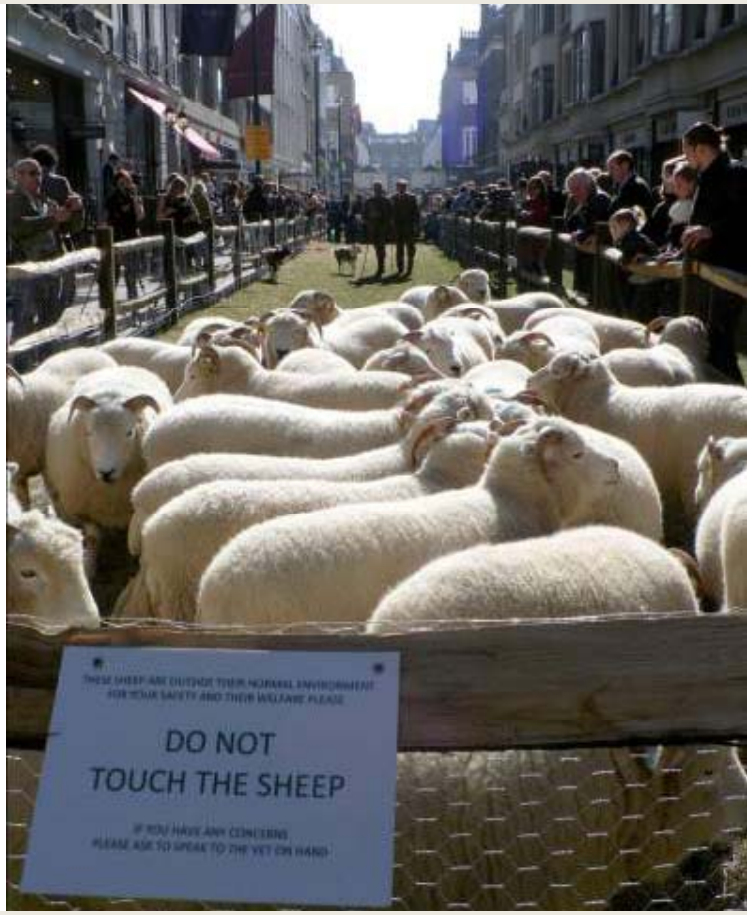
Wool

THE CAMPAIGN FOR WOOL
PATRON: HRH THE PRINCE OF WALES

Rapidly renewable
Totally biodegradable
Low CO2 impact
Inherently soil hiding
Does not attract dust or dirt
Breathable
Insulating
Low smoke toxicity
Low flame spread
Self-extinguishing



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Wool works well on its own…

but it's the perfect accompaniment to natural bast fibers

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Nettles

STING Project

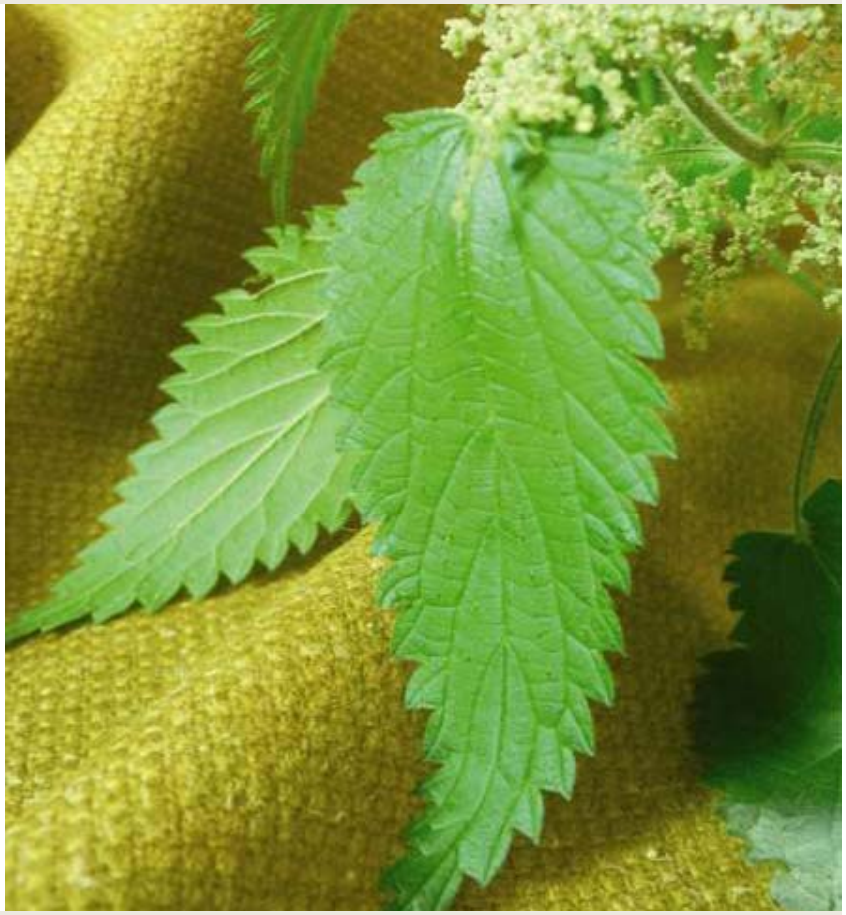
(Sustainable Technology in Nettle Growing)

£1m. project in conjunction with

De Montfort University & DEFRA

Inherently flame retardant

Naturally anti-microbial



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Hemp

Decortication ….on the farm where the hemp is grown, in Leicester.

Blended with wool….at our local spinner

Yarn spun….at our local spinner

Woven….in our local mill

Piece dyed….at our local dyehouse

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Recycling -

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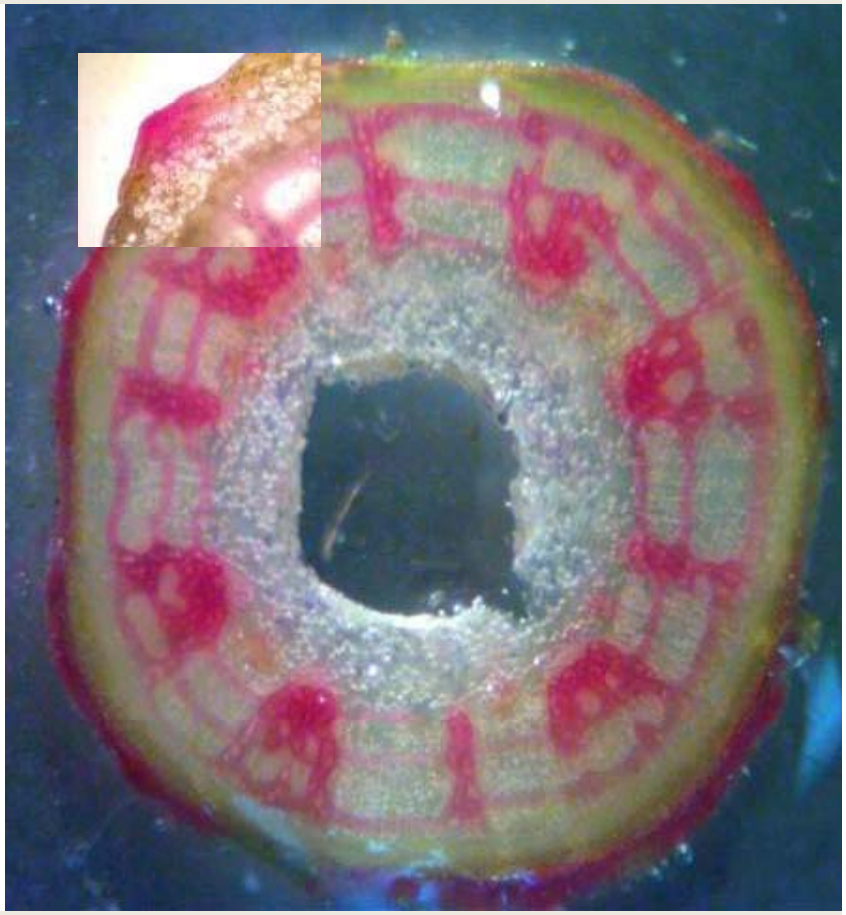
Processing

Decortication

Separates fiber from outer bark and woody core

New mechanical decortication process

No water / chemical / enzyme retting



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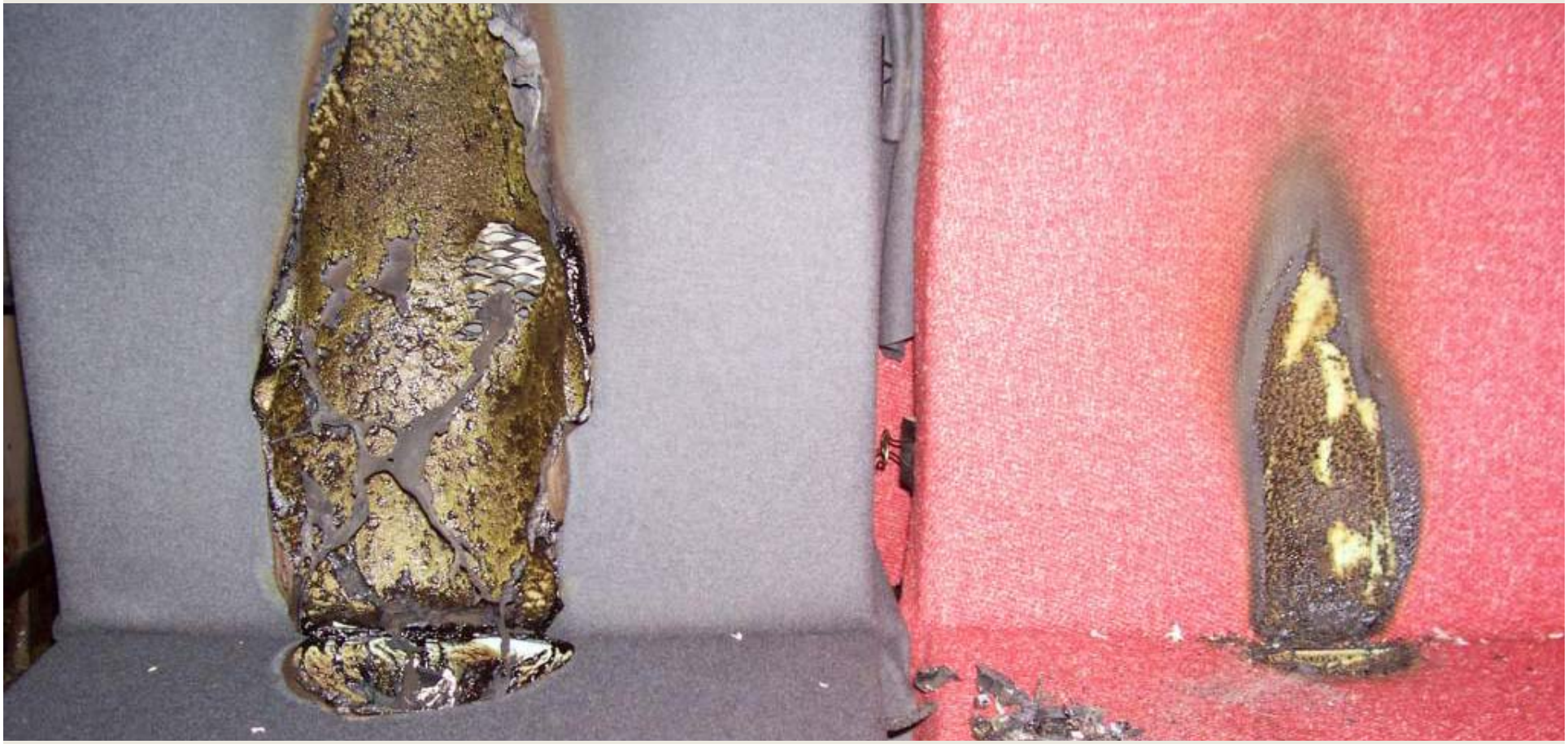
SMART Performance

- Naturally fire safe



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The need for sustainable fabrics

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Recycled polyester

Post-industrial recycled polyester

Diverts waste from landfill

1.7m Kg each year

Embodied energy - 66% improvement

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Recycled polyester

Residual yarn stripped from the cones and recycled by supplier

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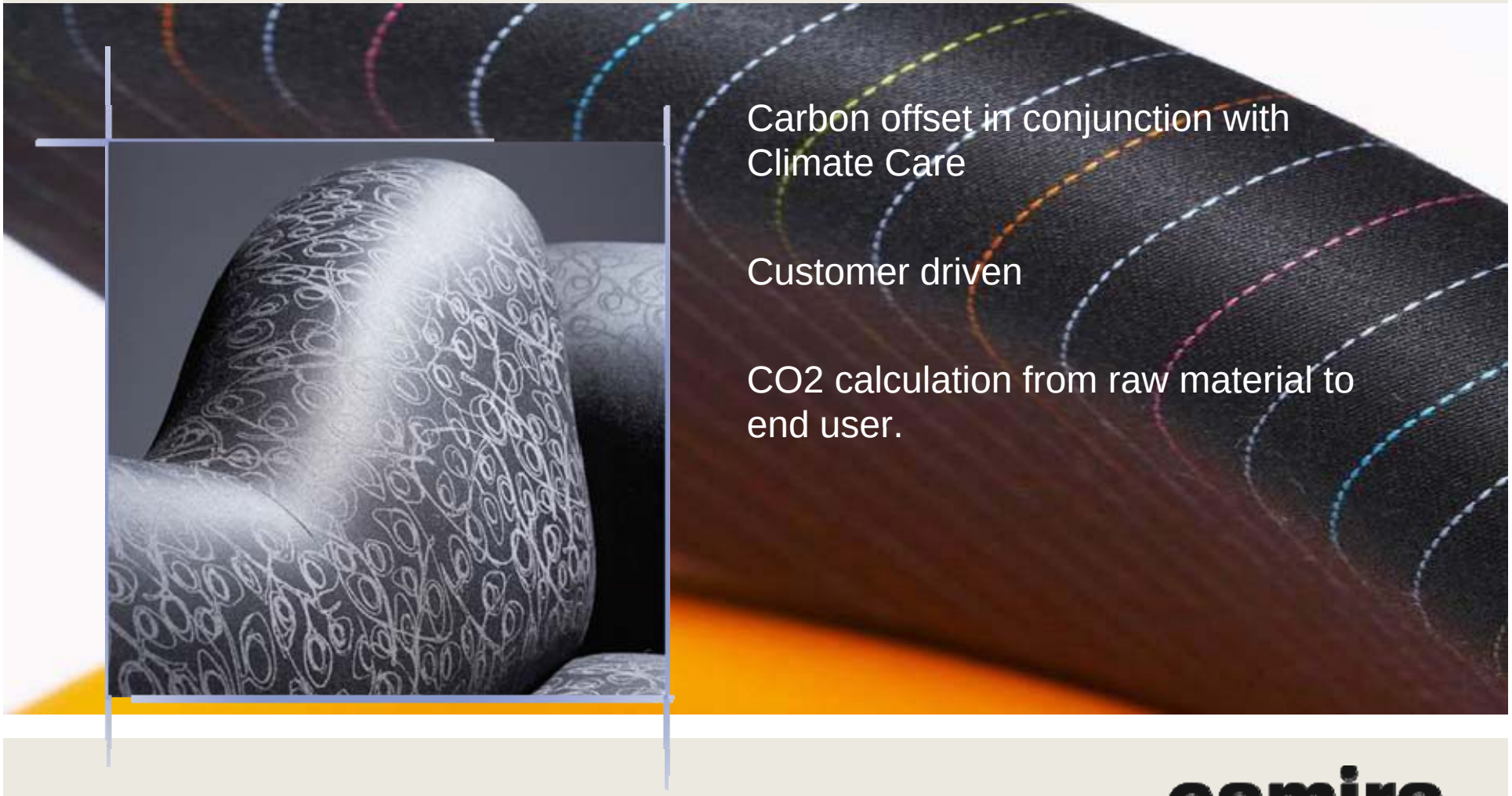
Alternative approaches



Carbon offset in conjunction with Climate Care

Customer driven

CO2 calculation from raw material to end user.

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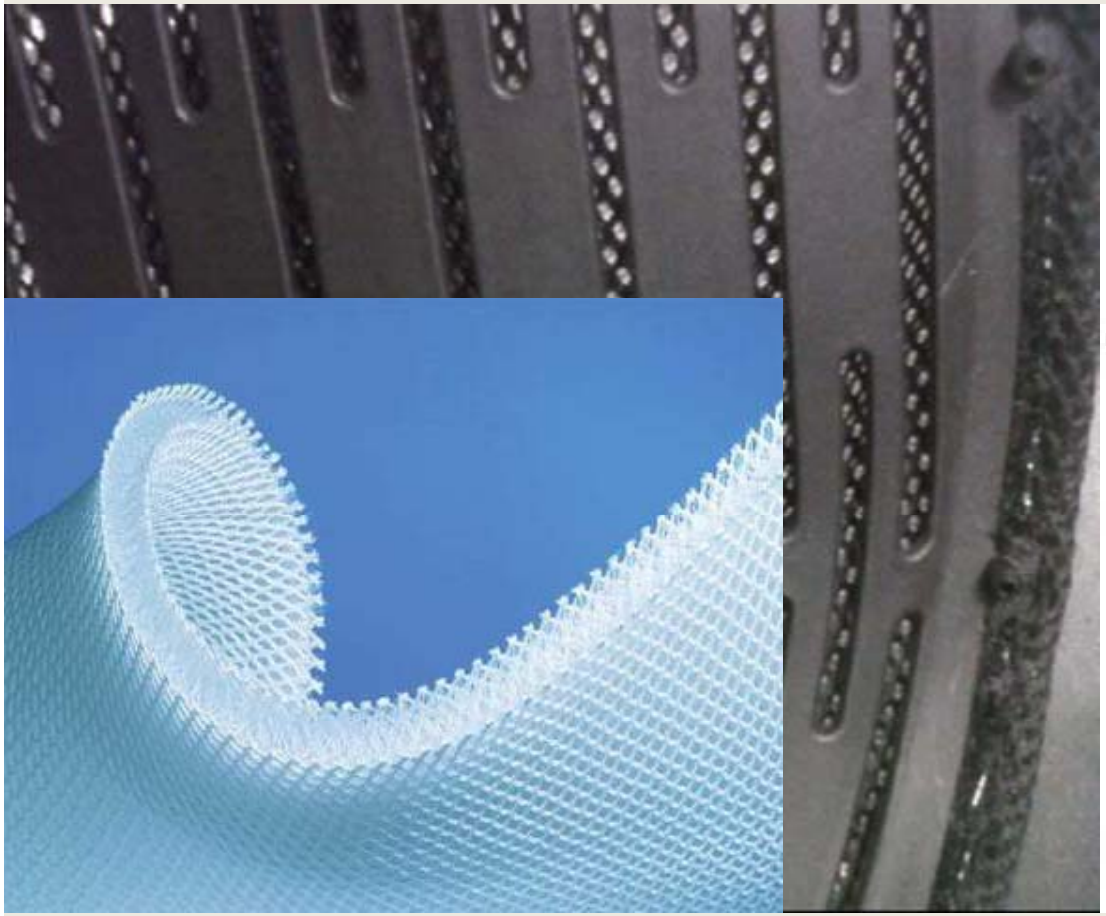
Alternative approaches



Spacer fabric

Ultrasonic welding

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Alternative approaches

Longevity:

24/7+ fabric

500,000 Martindale cycles

10
year guarantee
24 hour round the clock usage

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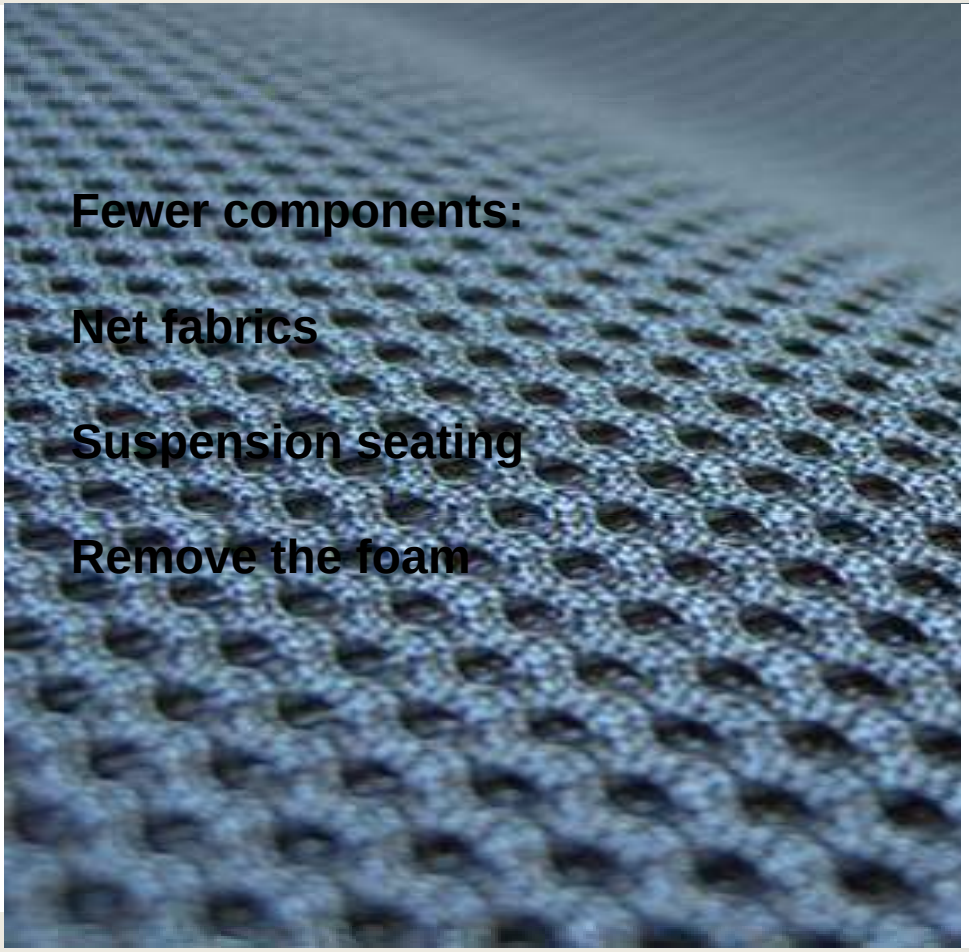
Alternative approaches



Fewer components:

Net fabrics

Suspension seating

Remove the foam

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One-stop-shop for interior transport solutions!

holdsworth

Weight reduction

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Weight reduction -- Flat-woven fabric

Contemporary flat woven seating fabric for bus, coach or rail interiors

Light weight construction

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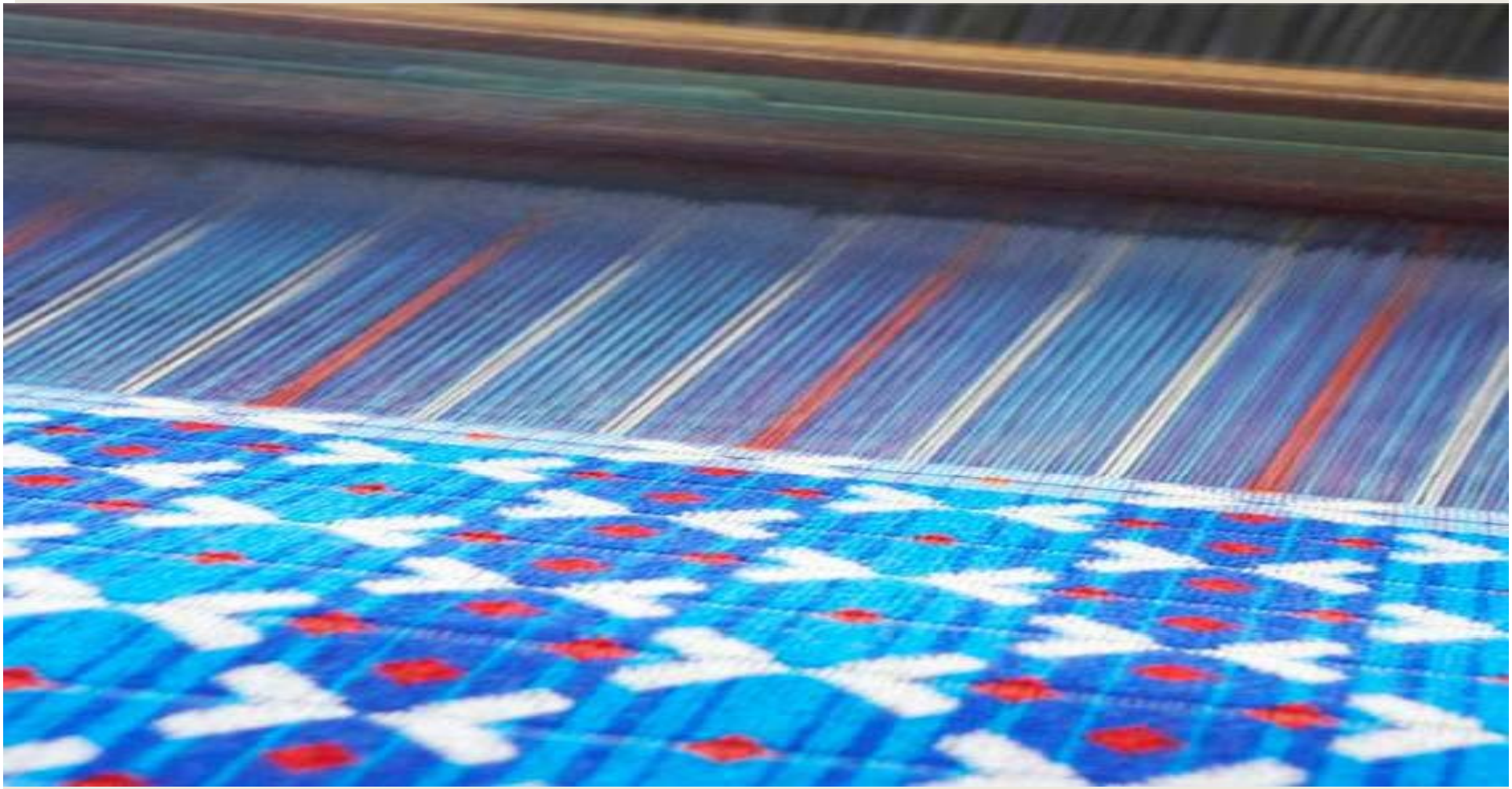
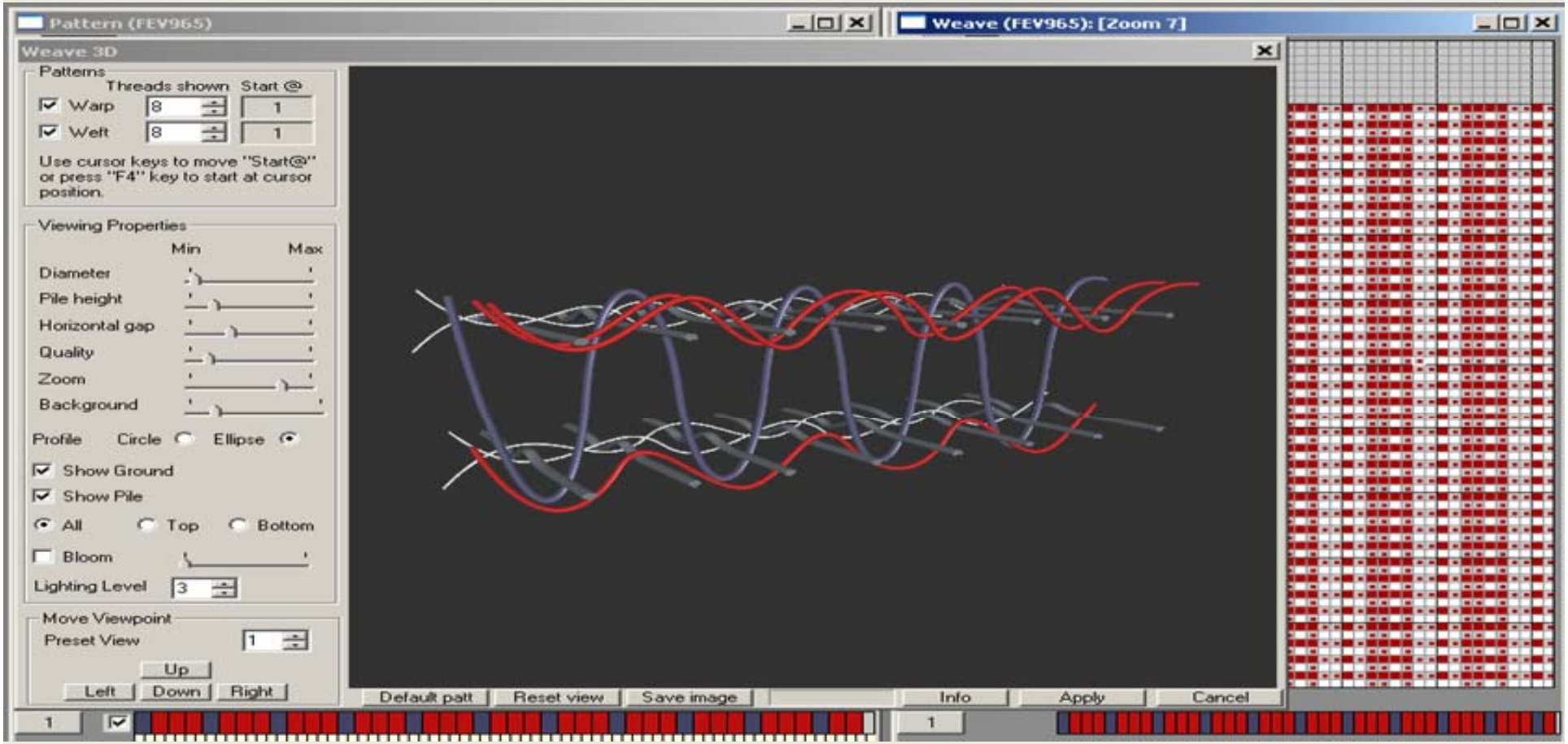
Waste saving through design



holdsworth

Waste saving through design



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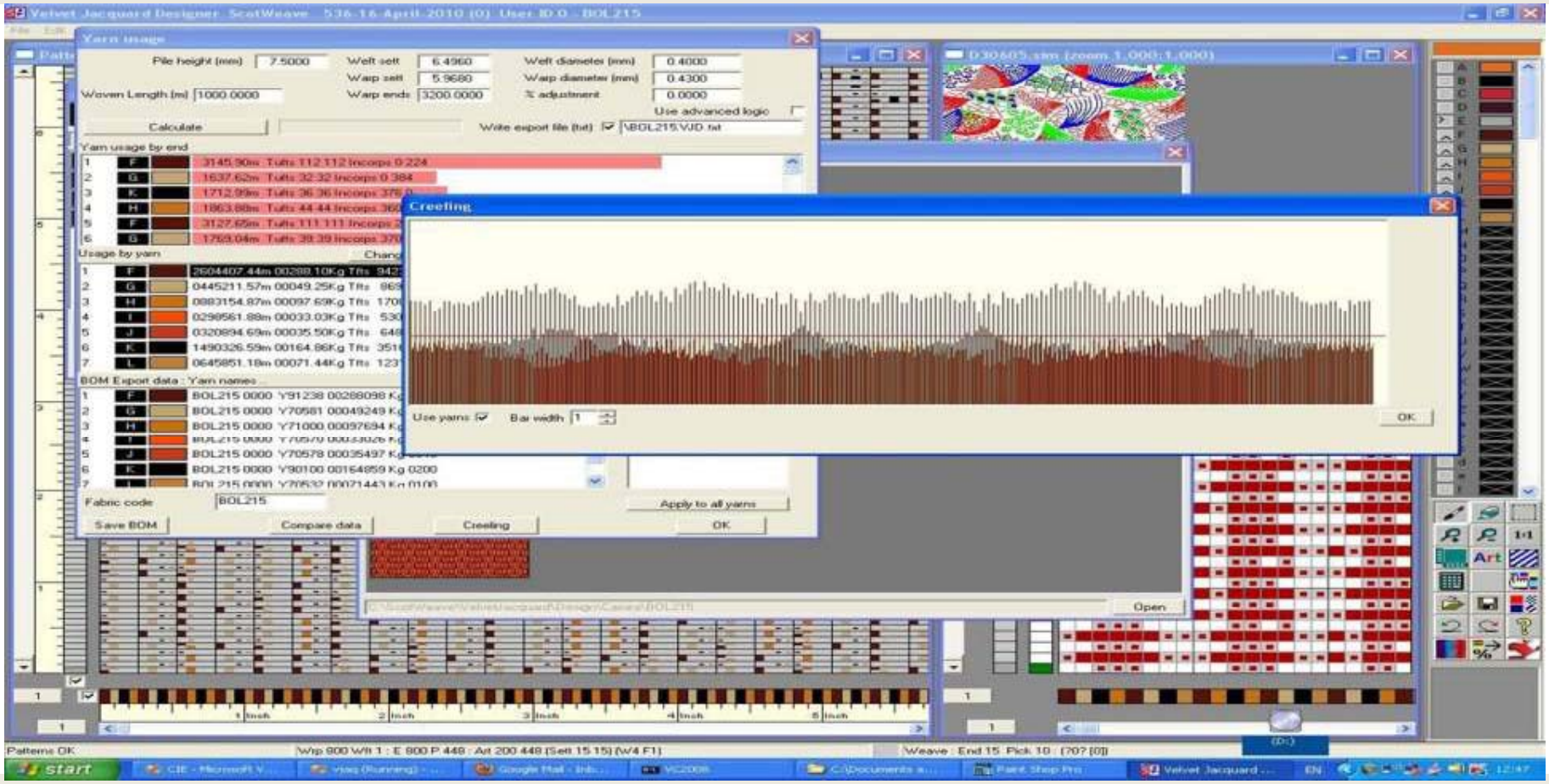
Waste saving through design



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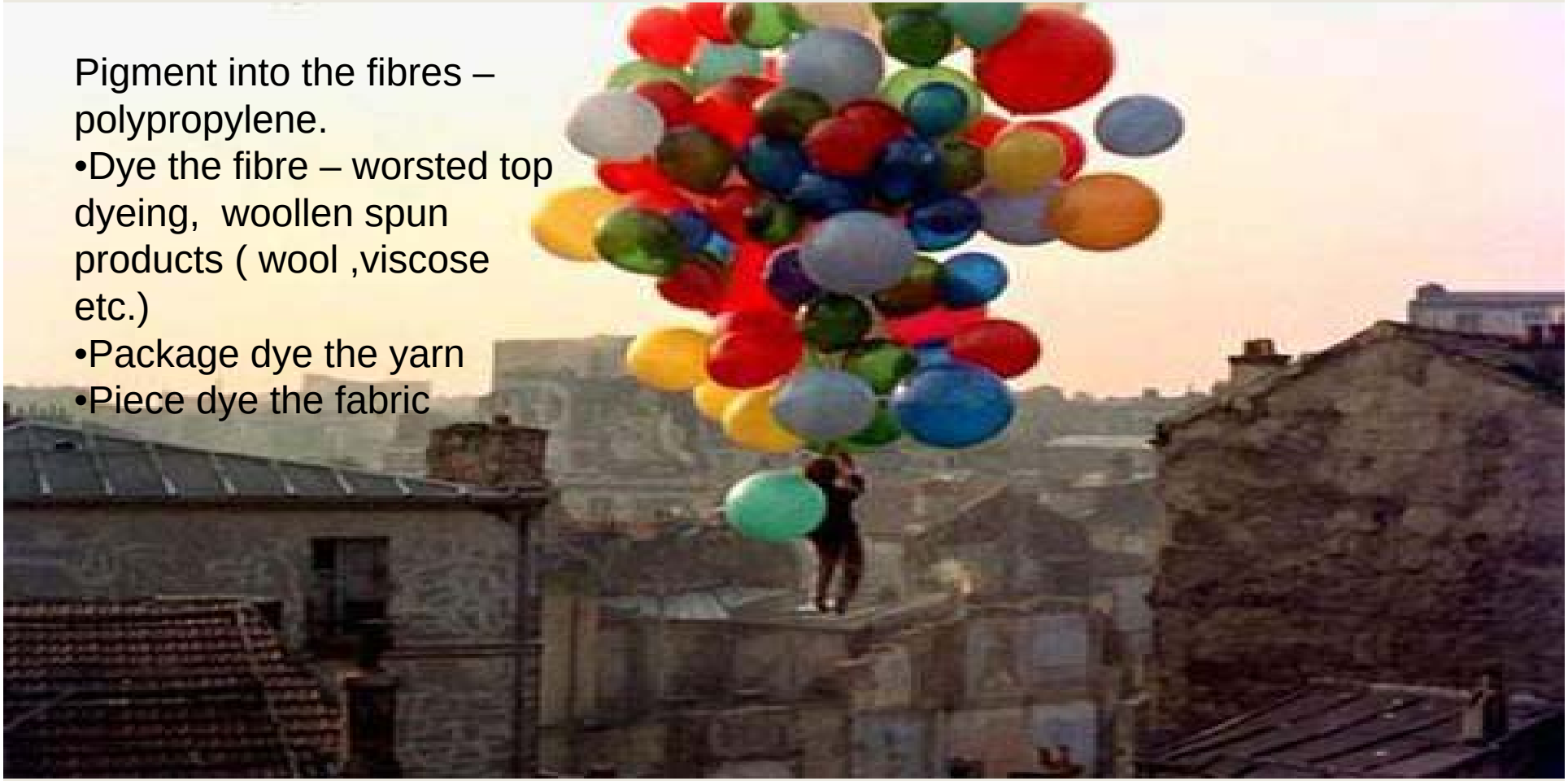
Colour



Pigment into the fibres – polypropylene.

- Dye the fibre – worsted top dyeing, woollen spun products (wool ,viscose etc.)
- Package dye the yarn
- Piece dye the fabric

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Future

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