



segura
RETAIL
SUPPLY CHAIN
SUSTAINABILITY
CONFERENCE 2025



Innovation Insights

Hosted by: Prof. Regina Frei



Tim Cross

PROJECT PLAN B



Partnering with Purpose: Driving Innovation, Collaboration, & Sustainability



GreenRetail.World

ual: fashion, textiles and
technology institute

ANANAS ANAM



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CentricSoftware



PROJECT PLAN B



Tim Cross

CEO and Founder

Designing for Recyclability



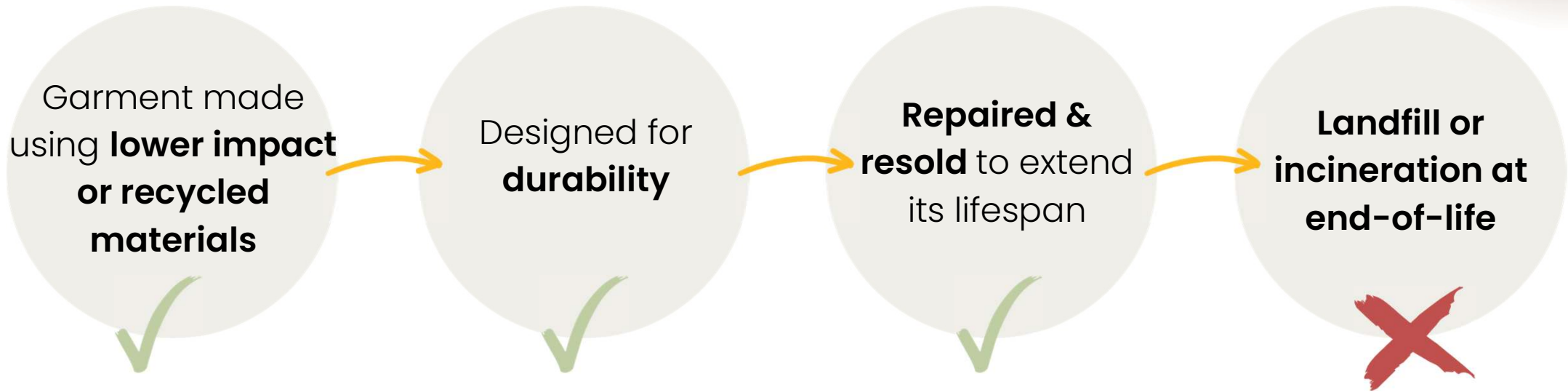
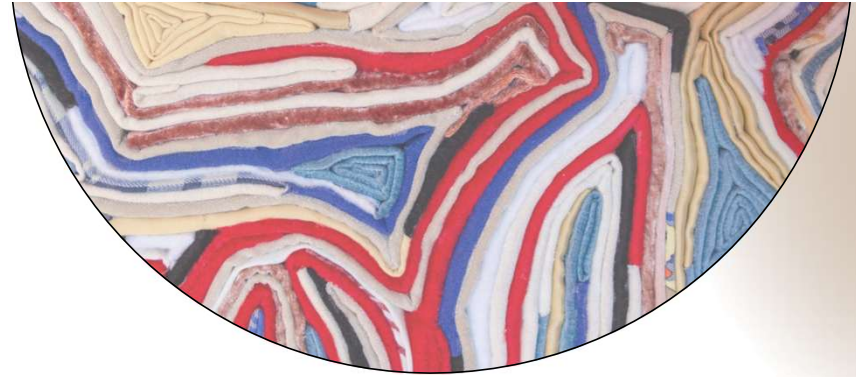
TAKE

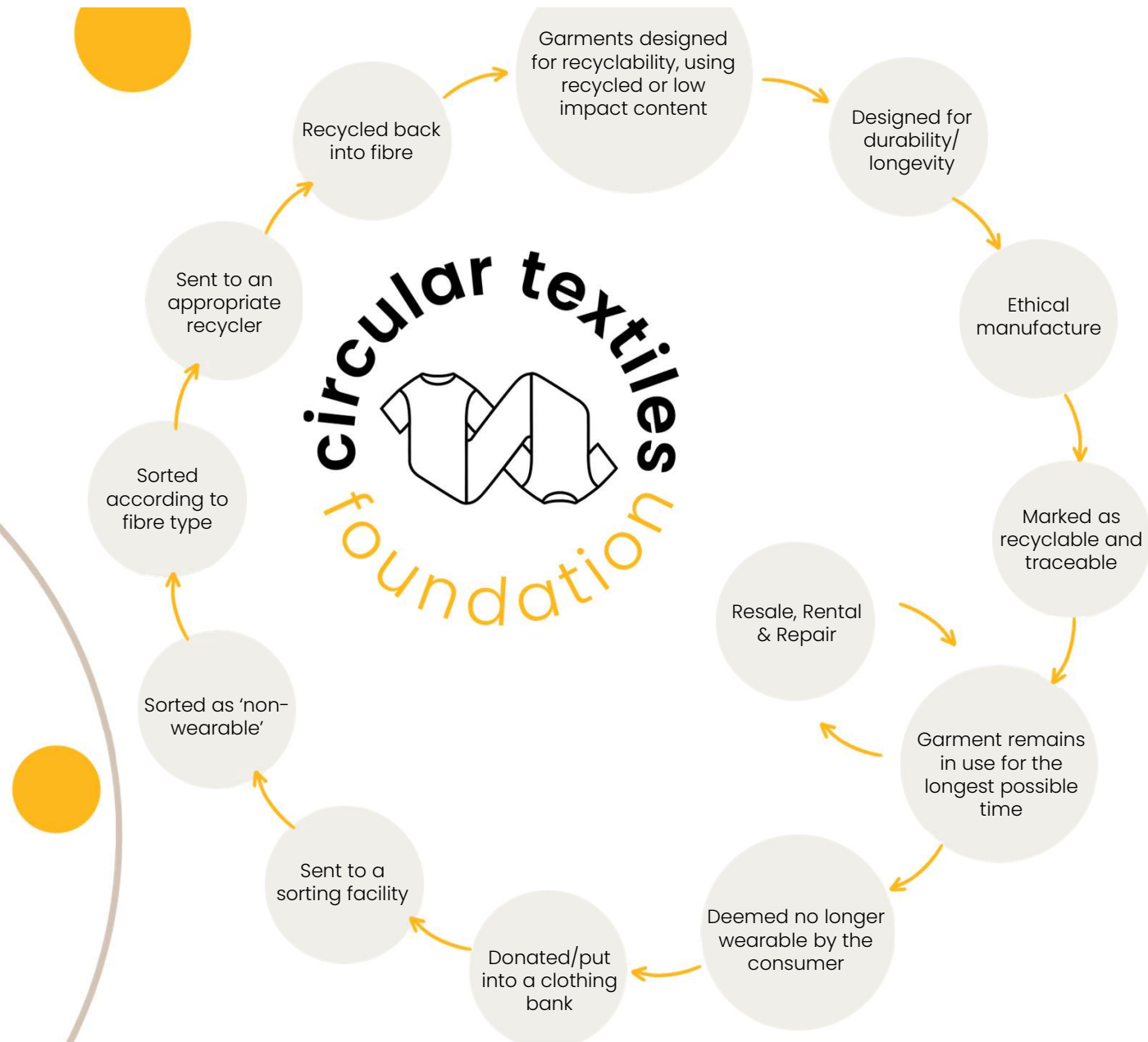


MAKE



WASTE





EPR

Extended Producer Responsibility:



- A variable tax on clothing that the brand pays – eco-modulated
- Funds generated used to enable a circular economy
- Active in France, Hungary, Netherlands and Latvia for textiles
- From **January 2025** – EU producers to cover the costs of collection, sorting and recycling
- UK EPR Sandbox Project – industry-backed White Paper

Source: European Commission, GOV.UK

ESPR

Ecodesign for Sustainable Products Regulation:

- Framework came into force July 18th 2024

Measures include:

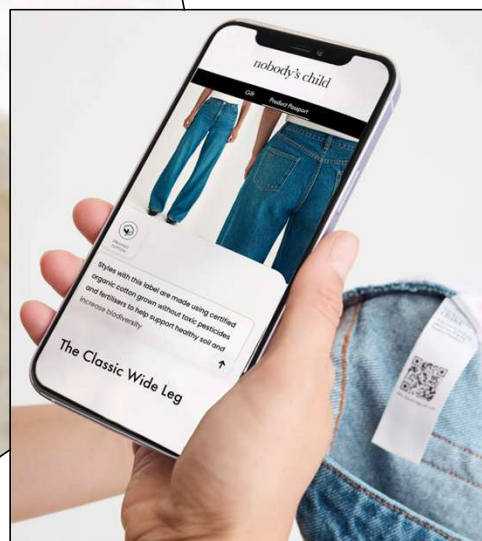
- Minimum level requirements relating to durability, repairability and recyclability
- Digital Product Passports
- A ban on the destruction of unsold goods

Source 'EU Sustainability Legislations: What impact could it have on your business

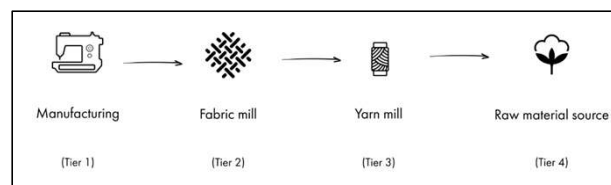
DPP

Digital Product Passports:

- Scan a product and receive information
- Accurate bill of materials essential
- Costs for acquiring and processing data, however savings on audit and compliance



nobody's child



Source 'EU Sustainability Legislations: What impact could it have on your business


Bill of Materials (BOM)


To include description/reference & composition of **all** individual components within a garment:

- Base fabric
- Secondary/Tertiary fabrics
- Trims
- Construction thread
- Labels
- Prints
- Finishes

Include the weight of each component

BOM (Bill of Materials) - Example/Template



BRAND	CTF	SEASON /DROP	SS25	
CATEGORY	JERSEY	SUPPLIER	SUPRTEX	
NAME/DESCRIPTION	SHORT SLY TSHIRT	TOTAL GARMENT WEIGHT (AVG)	418	
STYLE NUMBERS:	CTF24001JS	CAD:		
TECH PACK DATE	28/06/2024			
SAMPLE REQUIRED	30/08/2024			

FABRICS

ITEM DESCRIPTION	REFERENCE/SOURCING COMMENTS	COMPOSITION	PLACEMENT	COLOUR / PRINT REFERENCE	WEIGHT (G)
MAIN BODY FABRIC	ART-012CTN - SINGLE JERSEY	100% COTTON	FR&BK BODY & SLEEVES	001JS: PANTONE: 19-0303TPX	380

TRIMS

ITEM DESCRIPTION	REFERENCE/SOURCING COMMENTS	COMPOSITION	PLACEMENT	COLOUR	WEIGHT (G)
1X1 RIB	ART-023RIB - 1X1 RIB JERSEY	88% COTTON, 2% ELASTANE	NECKBAND	DTM MAIN	25

STITCHING & THREAD

ITEM DESCRIPTION	REFERENCE/SOURCING COMMENTS	COMPOSITION	PLACEMENT	COLOUR	WEIGHT (G)
MAIN INTERNAL CONSTRUCTION THREAD	4 THREAD OVERLOCK COATS ECOVERDE	100% POLYESTER	BODY CONSTRUCTION THREAD	WHITE	9
EMBROIDERED LOGO	CTF ART WORK SS24001	100% POLYESTER	LHSAW CHEST - SEE DESIGN SHEET	YELLOW	2

PRINT QUALITY

DESCRIPTION / TECHNIQUE	PLACEMENT	QUALITY / COMPOSITION
SCREEN PRINT LOGO	CENTRE BACK	WATER BASED INK - SEE FULL ARTWORK IN DESIGN PACK FOR DETAIL YELLOW: PANTONE 13-1231TPX

FABRIC FINISHINGS

DESCRIPTION	PLACEMENT	QUALITY /COMPOSITION

LABELLING

ITEM DESCRIPTION	REFERENCE/SOURCING COMMENTS	COMPOSITION	PLACEMENT/USE	QUANTITY	WEIGHT(G)
CTF Brand design label	AS DEVELOPED:- See Label guide	100% COTTON	CB NECK	1	2
Core Labelling		100% RPET	LHSAW INTERNAL SEAM	1	2
CTF branded side tab		100% COTTON	LHSAW EXTERNAL SEAM	1	2



What is the CTF Certification mark

● We are the only UK organisation to offer verification and certification in garment recyclability.



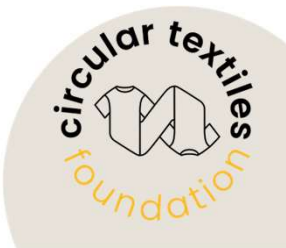
The Circular Textiles Foundation **Infinitee certification mark** proves to customers that a product is designed to be recycled.







It has now been reviewed and granted by the UKIPO, as the **UK certification trade mark for recyclable clothing**.



Alongside the certification mark, our **QR code** system enables the product to be scanned, informing customers what they should do with the item at the end of its useable life.



Why do we need Certification?

-  CMA guidelines
-  Third party verification
-  Recycler decision making process
-  DPP/EPR



Bill of
Materials

Recyclability
Certification

Digital
Product
Passport

Reduction in
your EPR Costs





“

The EU Commission's 2030 vision for Textiles states :

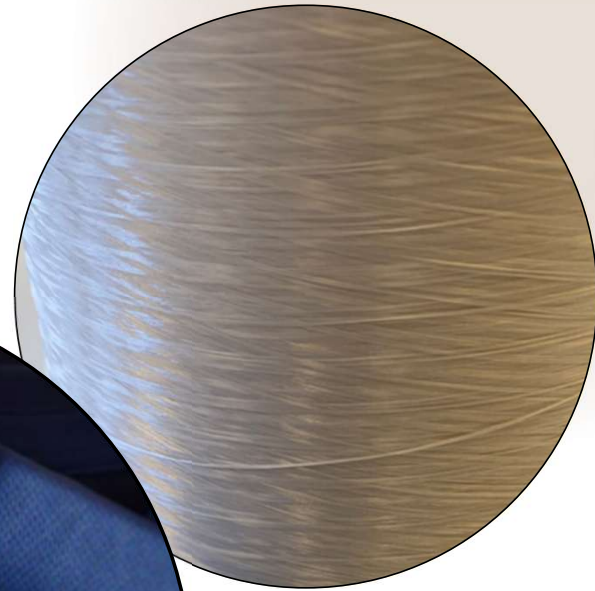
All textile products placed on the EU market should be:

- Durable, repairable and recyclable
- To a great extent made of recycled fibres
 - Free of hazardous substances
- Produced respecting social rights

”

EU Strategy for Sustainable and Circular Textiles





The Journey

What fibres can we recycle today?



Polyester

Composition:
100% polyester



Wool

Composition:
Minimum 95% wool



Cotton

Composition:
Minimum 95% cotton

Mechanical Recycling

Less energy intensive

Established process

Maintain original composition e.g. cotton

Limitations in output material quality e.g. colour, fibre length

Needs to be mono-fibre

Recycled output may need to be blended with virgin fibres

Chemical Recycling

Small reduction in quality of output material. Near virgin quality

Possibility to handle blends

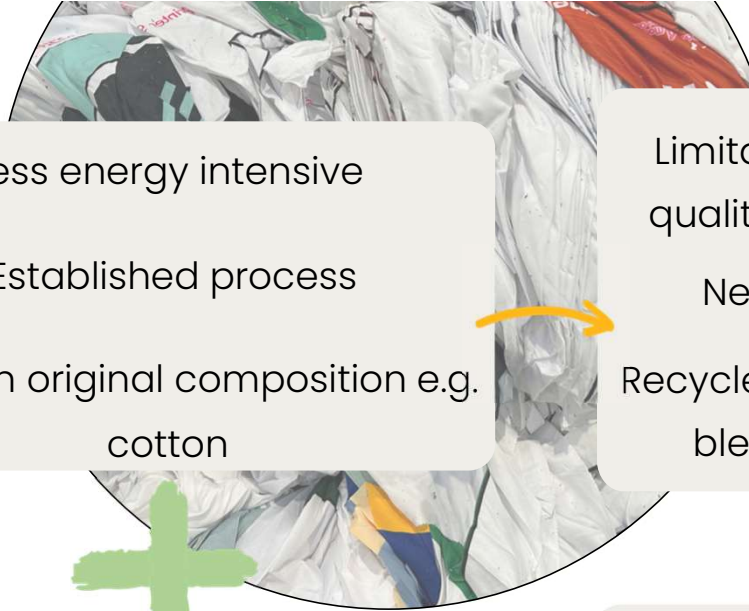
Only cotton recovered in poly/cotton blends

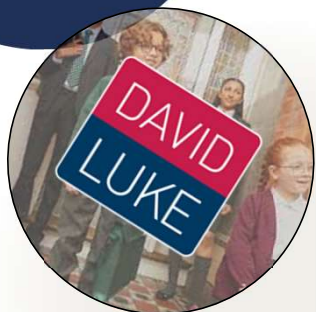
More energy intensive

Chemical polyester recycling not yet at commercial scale

Output often different to original fibre e.g. cotton to MMCF

Recycler Summary





A future where clothing and textiles are designed for recyclability as standard practice.

Connect: We advocate and support recyclers, bridging the gap between brands, suppliers, universities and textile recycling technologies.

Train: We provide workshops and training programme's that enable businesses to understand the why and how of designing for recyclability.

Certify: We are the only UK organisation to offer verification and certification in garment recyclability.





Incinerating 400 tonnes of polyester clothing = carbon cost of 404 tonnes of CO₂e (equivalent to 1.2 million garments)



Recycling 400 tonnes of polyester clothing = carbon saving of 2240 tonnes CO₂e



Cost saving of recycling rather than incineration = £156,000



Cost saving per garment = 13p

EPR cost = up to 10p per garment

Carbon Calculation

Thank you!

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Tim.cross@planbis.co.uk



THE CTF AT PRIMARK
Nightwear
Circular
Design
Training



R&D Discussion and Q&A



Thank you

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