

### Circular Textiles Ready to market

European Clothing Action Plan

Goodmorning and welcome!

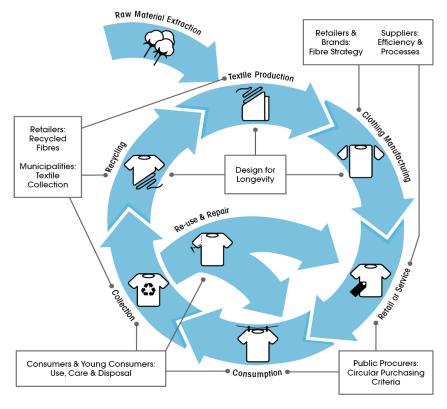
## Hanneke op den Brouw Rijkswaterstaat

Rijkswaterstaat Ministry of Infrastructure and Water Management

#### **ECAP** holistic approach















#### Fibre 2 Fibre Facts





Livstores Irma Borgsteede Enschede textiel stad 30% recycled postconsumer cotton
280 grams textile waste saved
2000 liter water
3.7 kWh energy 91 grs. CO2

41.3%
Recycled Cotton
20.5%
Viscose
20.5%
Wool
17.7%
Organic Cotton







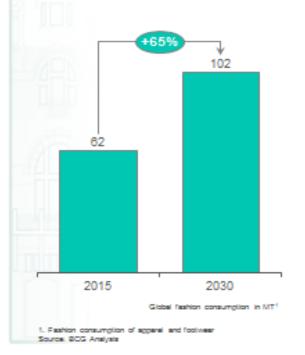
# ABN AMRO Henk Hofstede

**European Clothing Action Plan** 

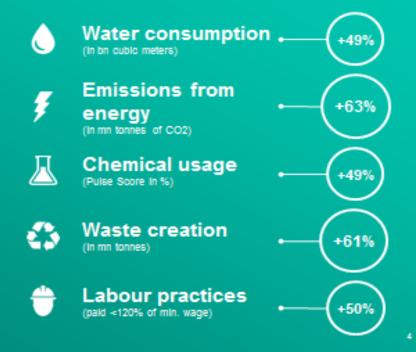




#### AS FASHION CONSUMPTION GROWS BY 65% UNTIL 2030...



#### ... ENVIRONMENTAL AND SOCIAL PRESSURE WILL INCREASE







- SAVINGMATERIALS
- EXPERIENCE INSTEAD OF PROPERTY
- DISTINGUISHING PROPOSITIONS
   WITH TECHNOLOGY
- FROM ANONYMOUS CUSTOMER TO A PERSONAL RELATION
- A HIGHER CUSTOMER VALUE...

#### FOCUS ON SDGS 8, 12 AND 13



How do we contribute to this plan for the world? > ABN AMRO and the Sustainable Development Goals (SDGs)



#### TRANSITION AND INNOVATION NEED FINANCING











100

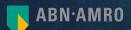
circular deals

1 billion

circular assets

1 million

ton 002 savings









## ual London Rebecca Early

**European Clothing Action Plan** 















"The next few years are probably the most important in our history"

IPCC report, 8 October 2018.

Global Warming of 1.5°C, an IPCC special report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty.

We all need to change. We need to innovate to change.

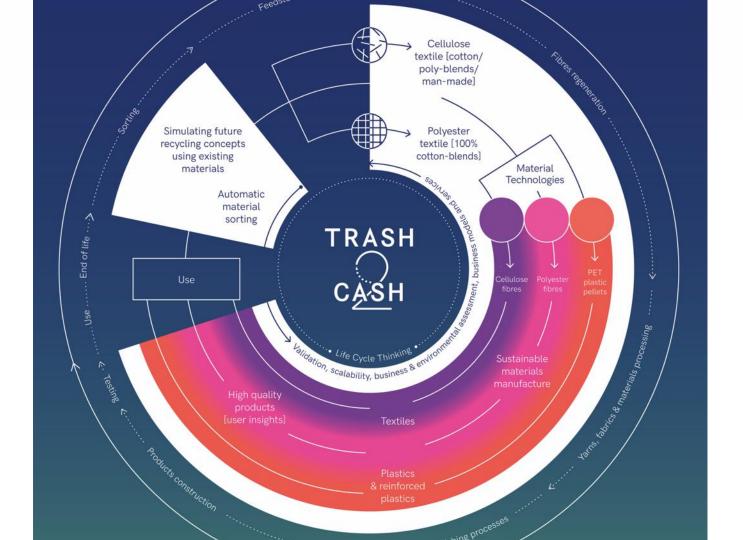
We have so many changes to make.

We need to work together.
We need to redesign the
way we do everything





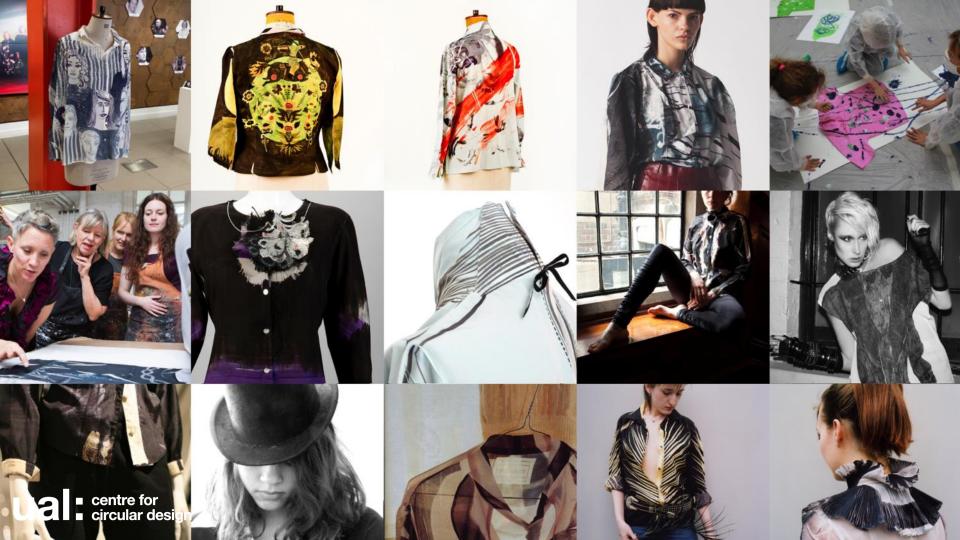


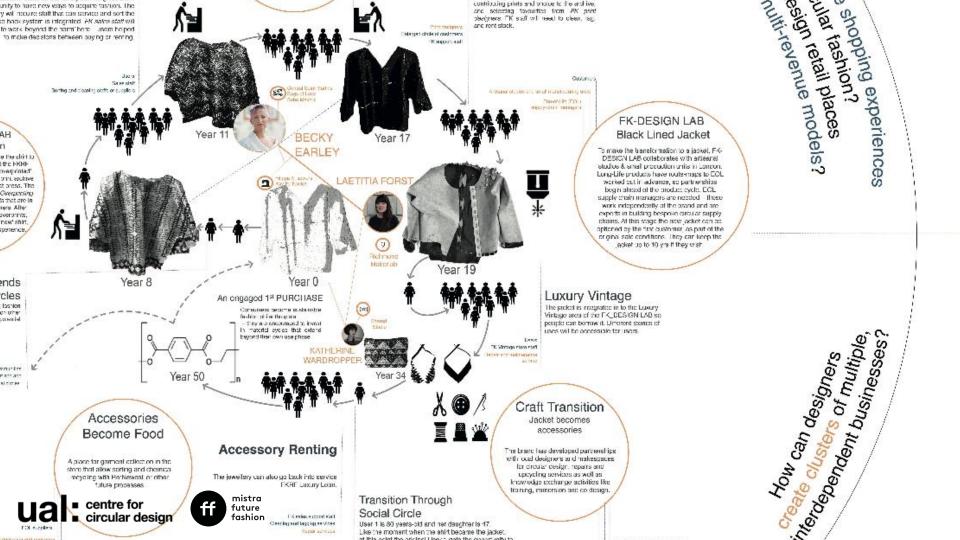




design

supply





ual centre for circular design



### fashion can be super-slow











and ultrafast...

Professor Kay Politowicz & Dr Kate Goldsworthy

ua centre for circular design









old cotton clothing can become new, coloured, lyocell





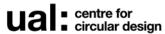




# repair can be beautiful



#### **Bridget Harvey**



...personal



**Bridget Harvey** 

ual centre for circular design

## ...and political



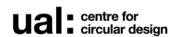
**Bridget Harvey** 

ual centre for circular design



speak loudly









## social circles



# EAD 10-12 april 19

WELCOME **PARTICIPATE TRACKS** CONFERENCE DESTINATION REGISTER SPONSORSHIP EAD CONNECT



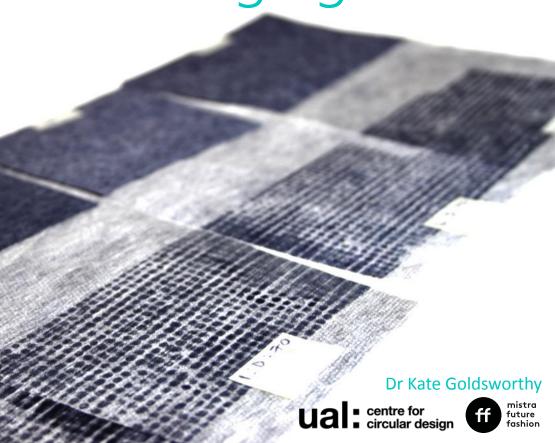


# materials are changing



production is changing

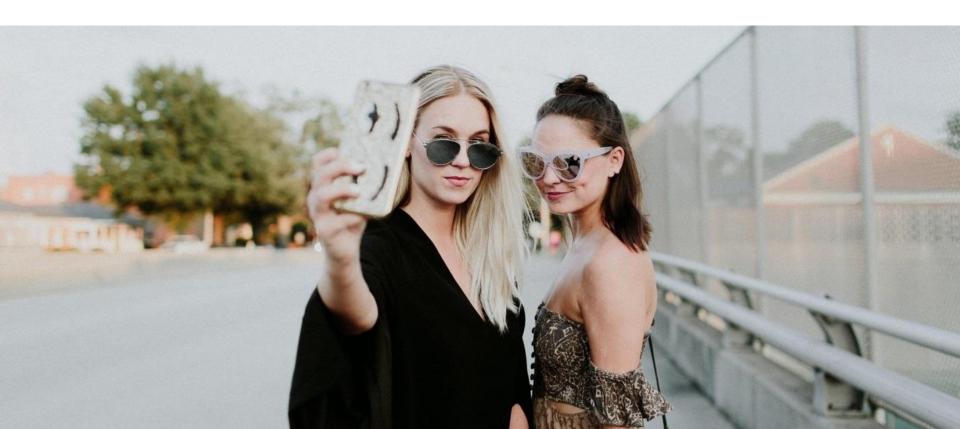


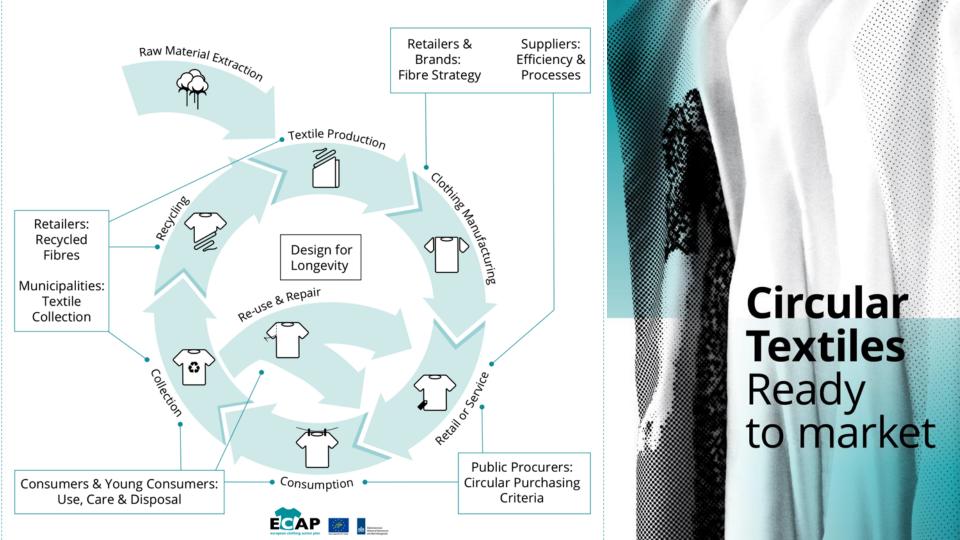


# design is changing



# fashion habits can change









# Ellen van den Adel & Marieke Koemans

**European Clothing Action Plan** 

	ECAP Program 'Circular Textiles Ready to Market'	ECAD	ilibe:
09.00	Arrival participants	european clothing action plan	Project supported by LIFE funding
09.30	Welcome to ECAP, the European Clothing Action Plan, and welcome to CIRCL		
09.45	Keynote speech by Rebecca Earley, Professor of Sustainable		
	Fashion Textile Design and		
	Co-Director, Centre for Circular Design (CCD)		
10.10	Fibre to Fibre pilots part 1: fashion show with dancers followed by spotlight sessions		
11.00	Break: Lost and Found		
11.30	Plenary presentation of 'Design for Longevity and Circularity' with showcases		
12.00	Fibre to Fibre pilots part 2		
12.30	Lunch break		
13.30	Fibre to Fibre pilots part 3		

Sustainable fibre strategies

14.00

	Afternoon program		* * * ike *
14.30	Brainworks (parallel workshops)	european clothing action plan  Project supporte	* *  Ind by LIFE funding
	A. Love your Clothes		
	B. Love not Landfill		
	C. Circular Business Models		
	D. Re-commerce & Rental concepts		
	E. Circular Logistics		
	F. Little Fashion Dragon		
16.00	Break		
16.15	Stand-up comedian BOOM Chicago		
16.55	Official opening of market place with 10+ circularity boosts and shop		
	till you drop products to buy		
17.00	Visiting market place and network drink		
18.30	End of Program		





# Fibre 2 Fibre pilots

**European Clothing Action Plan** 





# HAVEP Els de Ridder

**European Clothing Action Plan** 



# HAVEP® FENIX



**ECAP** 



HAVEP° FENIX X ECAP

## THE PROJECT



PRODUCT:



MARKETS:



**COMPOSITION:** 



RECYCLD.MATERIALS:

**WORKWEAR FABRIC** 

NL - BE - GER

65% REC PET/10% REC COT/25% COT

65% REC PET / 10% REC COT



# HAVEP® FENIX

SAVINGS PER 1KG FABRIC:

REM© 75/



697 LITERS





4.15



3485 Cups of Coffee



138 days Using your Phone



# HIGHLIGHTS



1<sup>ST</sup> ORDER FROM DUTCH GOVERNMENT!



SHARED CIRCULAR VISION WITH REMO



ENTIRE EUROPEAN PRODUCTION ON 1 KM<sup>2</sup>



## KEY INSIGHTS AND LEARNINGS

#### CHALLENGE:

QUALITY REQUIREMENTS FOR WORKWEAR



#### CHALLENGE:

CONTINUOUS STREAM OF THE RIGHT RAW MATERIALS



OPPORTUNITIES TO ACCESS NEW MARKETS





# **NEXT STEPS**

**USE THE YARNS IN NEW PRODUCTS** 

EXPLORE FURTHER OPPORTUNITIES FOR EUROPEAN PRODUCTION

OPPORTUNITIES TO ACCESS NEW MARKETS









# Blycolin Jacqueline Mommer

**European Clothing Action Plan** 







Nicolet Keetelaar Jacqueline Mommer Ron van de Wiel





### WHO ARE WE?

Blycolin is the leading international specialist and partner in linen services for the hospitality branch. Our enthusiastic employees believe quality is very important and endorse our corporate social responsibility. In an inspiring and efficient way, we proudly achieve in a sustainable total solution that contribute to the maximum quality perception (Q-perception) of hospitality guests.





## WASTE

350.000 kilo waste per Year.







THE CHALLENGE

- Same quality & lifecycle
- Production in Europe
- Our preferred supplier connect to new supply chain
- Sorting waste
- Partnership
- The right yarns
- The market



## 2017/2018

- Sheets 160/310
- Ca. 175 gr/m<sup>2</sup>
- Plain Weave 1/1
- Open end yarns
- Yarnnr. Warp: Ne 16/1
- Thread/inch Warp:61
- Yarnnr. Weft: Ne 16/1
- Thread/inch weft:61
- Colour plain white



### RESULT

- 15 % post-consumer (old sheets)
- 35 % pre-consumer (confection waste sheets)
- 30 % Cotton
- 20 % Polyester



# MEI 2018, HIGHLIGHT



#### REBORN BEDLAKENS: NIEUWE STAP IN CIRCULAIRE TEXTIELINDUSTRIE



Zoeken naar tweede levens

Reborn is de nieuwstę duurzame innovatie van Blycotin. maar niet de eerste. Al eerder ontwikkelde zo de

Kwaliteitstest bij WeldumerHout

Net als gasten hebben ook hotels, wellness centra, verwachting. We testen ieder nieuw product dan ook

Boer: "Maatschappelijk vorar







FROM BEDSHEET TO BEDSHEET





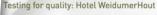


Linen management | Laundries | Collections | References | Menu =

SAVINGS PER 1 KG:







Hotels, holiday parks and wellness centers can rent the bed sheets after the product has been tested in real life. This test is in full flow at Weidumer-Hout, a hotel with its own waste water purification, solar panels and green power. Owner Eddy de Boer: \*Corporate social responsibility is very important to us. We want to continually improve our operations when it comes to





# 2019, NEXT STEP

- (Washing) test again
- 2<sup>e</sup> test customer
- Problems supply chain and pricing
- Prefered supplier
- Time

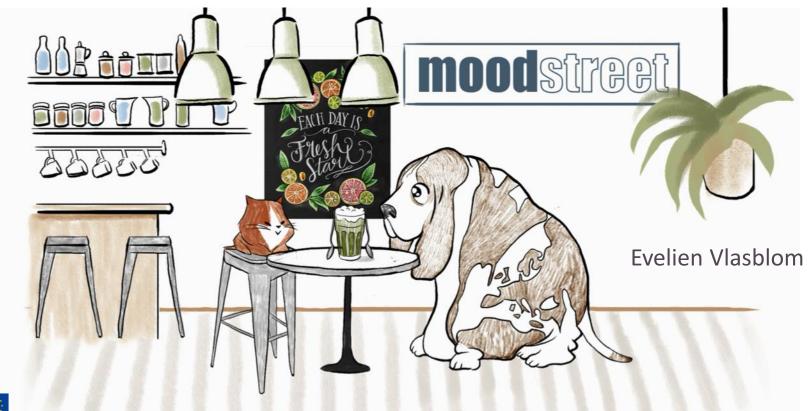




# Moodstreet Evelien Vlasblom

**European Clothing Action Plan** 

## from Waste to Wonderful







## moodstreet









## Project overview

- Jersey collection for girls (Darlin) and boys (Fellow), denims and jackets
- Production jackets 100% polyester
- International markets; retail customers mainly online and boutiques
- 43% post-consumer and 57% virgin material
- 2320 pieces
- Sales prices between € 79,95 and € 89,95





moodstreet





# Highlights of the project

- 1. Market introduction of two styles jackets
- 2. Our sister companies, LC Kidswear took over the initiative
- 3. Learning about each step in the process
- 4. Small volumes is difficult, but we made it happen
- 5. Educational film 'from Waste to Wonderful'









# Key insights and learnings

- 1. It takes much more time
- 2. Customers (retailers) find idea about sustainability interesting
- 3. Sustainability is not key at moment of placing orders
- 4. Sales force finds it difficult to sell sustainability
- Recycled fabric in production country China speeds up the process
   We still prod to find recycled iorsey
- 6. We still need to find recycled jersey and denim fabric in China





### moodstreet



## Next steps

- Sale up use of recycled polyester for jacket and padding
- Find recycled jersey fabric in China. Who can help us?
- Research fully sustainable children's brand within JOLO Fashion Group





# Lost and Found

**European Clothing Action Plan** 





# Where are you from?

UK, Denmark, Sweden, Estonia, Italy, Spain, France, Belgium, Finland, Switzerland, the Netherlands.......

## What line of business are you in?

Brand, Retailer, NGO, University, Producer, Spinner, Expert, Service Provider, Recycler, Logistics......





# Danish Fashion Institute Chloe van Barthold

**European Clothing Action Plan** 







The Higg MSI is a free tool by SAC that allows designers and brands to... \*

- A Calculate pattern cutting efficiency
- B Estimate how long a product's lifetime is
- c Calculate and compare fabrics' environmental impacts

A group of Pennsylvania State University researchers managed to develop which innovation for textiles, using squid teeth protein? \*

- A Biodegradable glue.
- B Sustainable washing liquid.
- © Self-healing coating technology.

#### A Preferred Fibre List is a helpful tool for designers because... \*

- A It gives an easy overview over which sustainable fibres to choose from
- B It lists fibres according to price-point, giving an easy indication of product cost
- c It lists materials according to what consumers generally buy

Which of these are characteristics of the Tencel material? \*

- A Thermal retention, wrinkle resistance and resilience
- B Water resistance, biodegradability and antibacterial
- c Durability, softness and breathability

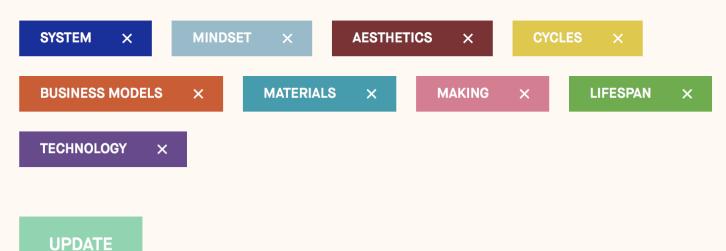
Which of these is not a solution to avoid microplastic pollution? \*

- A Ultra sound cutting.
- B Tight knitting.
- c Reducing fabric brushing.



#### MAIN INTERESTS

To present you with articles recommended for you, please select the sections that interests you the most. Hover each section to read more.



#### Navigate

MYFEED LATEST SYSTEM MINDSET **AESTHETICS** CYCLES BUSINESS MODELS MATERIALS MAKING LIFESPAN TECHNOLOGY





MAKING

#### Ready to Wear and Ready to be Aged

Video · o comments

Visvim shoes have replaceable soles, in order to encourage the wearers to care for them in the long term.



#### COMMUNITY



Jessica Antonio on Upcycling

I do agree that's not considered upcycling, but it definitely is a sustainable use of it. In many cases if deadstock wouldn't get sold it would be thrown onto landfills and burn just like many brands' overstock.



susannaschick on Remade, Reduced, Recycled and Raeburn

Very cool!! It's so great to see more designers getting into upcycling. My favorite is Burning Torch, a really cool line out of LA. She's been doing this since she started her line over a decade ago. You should see some of the designs she comes up with from artfully cut military surplus. You have to search "upcycled" on her site to find it all, but it's worth it.



#### susannaschick on Upcycling

cool! but using deadstock fabric cannot be considered upcycling. It's "using fabric that would most likely eventually have been sold to someone". Upcycling is taking something that would otherwise be thrown out or recycled, and turning it into something more valuable. And you missed my fave, who's been upcycling for over a decade-Burning Torch:

https://www.burningtorchinc...



#### susannaschick on Scandinavian Designs Made in Prison

That's great! I hope they earn more than the prisoners who sew clothes in prisons here in the US. Our government has kept slavery alive by making it legal to employ prisoners at wages far below the

YOLES

#### Self Healing Fabric

Video · o comments



SHARE TWITTER FACEBOOK PINTEREST LINKEDIN

SAVE POST

ften, in destinations by the Mediterranean coast, small port markets are selling natural sponges from the sea. These sponges are multi-cellular, and when the cells are separated, they join up together to become whole new sponges. If they were to be torn apart and placed back in the sea, they would heal themselves, as they would gradually regroup and become one. What if our favourite damaged shirt could similarly heal itself magically?

Today, a group of Pennsylvania State University researchers are looking to introduce self healing properties in the textile industry. In fact, they have successfully developed a small scale coating technology that enables textiles to heal when placed in water. Often, in destinations by the Mediterranean coast, small port markets are selling natural sponges from the sea. These sponges are multi-cellular, and when the cells are separated, they join up together to become whole new sponges. If they were to be torn apart and placed back in the sea, they would heal themselves, as they would gradually regroup and become one. What if our favourite damaged shirt could similarly heal itself magically?

Today, a group of Pennsylvania State University researchers are looking to introduce self healing properties in the textile industry. In fact, they have successfully developed a small scale coating technology that enables textiles to heal when placed in water.

Fashion designers use natural fibres made of proteins like wool or silk that are expensive and they are not self-healing. We were looking for a way to make fabrics self-healing using conventional textiles. So we came up with this coating technology.

Melik C. Demirel, professor of engineering science and mechanics.

To obtain the self healing property, materials are dipped into squid teeth proteins, which were turned into a liquid form using yeast and bacteria. This coating process can be applied to a finished garment or to the threads first, before manufacturing. This simple procedure has a large impact on garment repair. When torn, one can simply put the edges of the coated material together and apply warm water to it, and watch as the fabric heals itself. In fact, the tiniest of defects can even be repaired whilst the garments are being laundered, considering that water is the enabling factor for the self healing.

The procedure remains simple and inexpensive, and marks a significant turning point in garment care. If this were to be scaled up, it would increase the use phase of garments. In fact, Demirel explained to CNN that his team is looking into developing a liquid that could be poured into a washing machine, so that any garment – coated or not – could be repaired during a clothes wash. Sometimes, innovations such as self healing fabrics can seem futuristic and alien to us. The concept has often been explored in science fiction. However, as illustrated by the self healing sea sponges, such science can be found in nature, and may have been around for centuries. As designers, we can observe such natural marvels with a new set of eyes, and bring our designs one step closer to nature.

Resources: Fibre 2 Fashion // Futurism // Sea Sponge Company // Phys.org

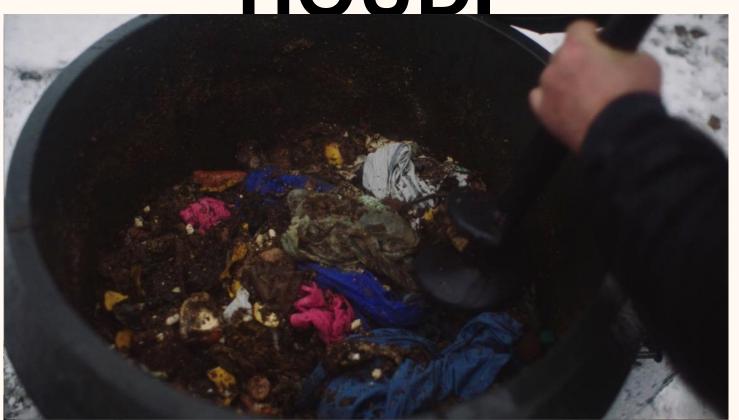
#CIRCULARITY

SAVE POST

# **HNST**



HOUDI













# Fibre 2 Fibre pilots part 2

**European Clothing Action Plan** 





# Schijvens Shirley Schijvens

**European Clothing Action Plan** 



# Schijvens corporate fashion sinds 1863







#### Monitoring 100%, score 86 **Category LEADER Winner Best Practice Award 2017** LIVING WAGE



















































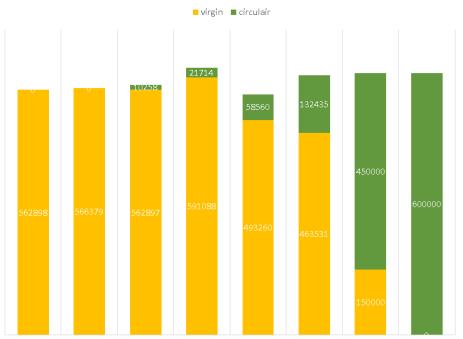
the colourkitchen\*





vermaat

WONDER Wijf



SCHIJVENS CIRCULAR PRODUCTION

2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021

Recycled items for the circular proces

Schijvens 9-1-19:

Collected at client

Delivered in rec.

In production rec.







Collect old uniforms



**Shredder them to fibres** 

30% post-consumer 20% pre-consumer



Mix with pet fibres

50% post-consumer



From recycled yarn: Make new garments





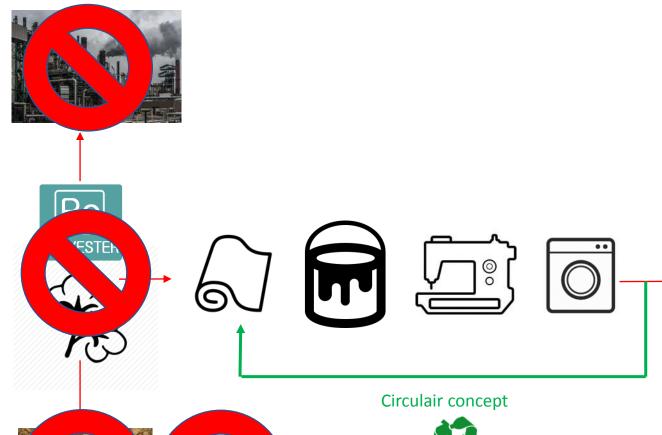




Circulair concept































1. Adding this customer (27.000 employees) to our portfolio!

2. Savings for environment calculated for CSU:

Water 33.943.900 liter

CO2 18.967 kilo

Energy 95.889 KwH

schingus

3. Winner of Dutch Sustainable Corporate Fashion Award (and a lot of media attention)





## Key insights and learnings

1. You need good knowledge of customs and HS codes for recycling

2. Return logistics in the Netherlands is not a common business and therefor hard to find for a good price

3. Customers are easy to find, people are really **enthusiastic** on recycling!







# WE Fashion Marijke Willemsen

**European Clothing Action Plan** 





# Project overview

- 2 yarns used for knitwear
- Project with Texperium (project management) and ESG (spinning)
- All cotton used was regenerated from postconsumer recycled cotton, 50% PC recycled cotton, 50% Tencel
- In store in October 2018, sold in NL, D, CH, B, F and Lux
- 6000 pcs with a retail price of 49.99 euro





# Highlights of the project

- Two beautiful yarns developed
  - white yarn of post-consumer T'shirts (50%) and Tencel (50%)
  - Blue/green yarn of post-consumer jeans (50%) and Tencel (50%)
  - The yarns are further developed by ESG in other colors, without dyeing the yarns, but by mixing with dope-dyed viscose.
  - These colors will have less sustainable material content (Tencel vs viscose) but will have a lower use of water, chemicals and energy.
- 2. Proof that the development of yarns is possible in our buying system, without having to make exceptions.
- 3. We achieved considerable environmental savings, specifically on water (92%), but less on chemicals (8%) and energy (12%). This is mainly due to the fact that we made the choice to dye the blue and the green yarns.

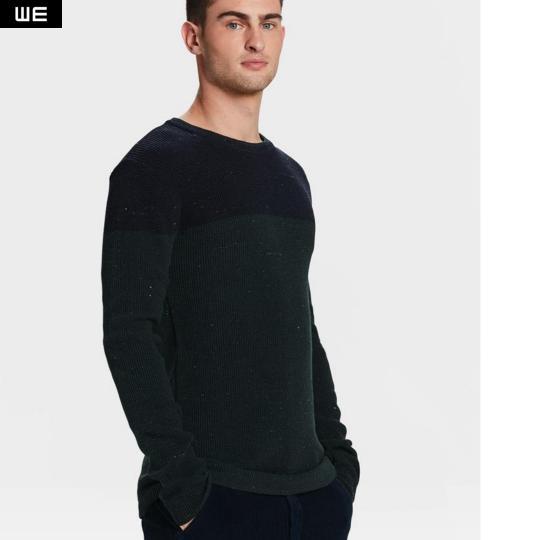




## Blue/green yarn

- post-consumer jeans (50%)
- Tencel (50%)

The yarn has contrasting nappies to create a fashionable look.





ШЕ



THIS GARMENT
IS MADE FROM
POST-CONSUMER
RECYCLED COTTON.
WE HAVE ADDED
TENCEL TO MAKE
THE YARN STRONGER.
BY OPTING FOR
THIS MATERIAL,
WE USE LESS WATER,
CHEMICALS AND
ENERGY.



92% WATER SAVINGS PER PRODUCT



12% CHEMICALS SAVINGS PER PRODUCT



8% ENERGY SAVINGS PER PRODUCT

RECYCLED COTTON



# Key insights and learnings

- The yarns needed to be dyed to create a commercial product, that fitted in the collection. We did not have enough time for research & development to look for other options on how to achieve the desired colours without dyeing.
- 2. Developing a better understanding between brand and recycling expert is indispensable. There was not enough understanding between parties, and communication failed.
- 3. Planning was difficult. The yarns were delivered late, what caused a delay in production. In the end the sweaters were sold in a week with a promotion (2<sup>nd</sup> sweater for half price).



# Next steps

- WE Fashion is exploring an expansion of the use of recycled materials in products in the Winter 2019
  - Recycled merino
     Recycled jeans
  - Recycled wool
- No current project running with the ESG yarns, the reality is that the yarns developed are too expensive for our products.





# Suitsupply<br/>Joy Roeterdink

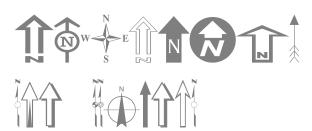


#### **SUITSUPPLY**

FOR US ITS ABOUT KEEPING AND
RETAINING VALUE, TO CREATE CHANGE
BEYOND OUR OWN PRACTISES & DEEPER
INTO OUR VALUE CHAINS, WITH
ENGAGEMENT OF SUPPLIERS,
EMPLOYEES AND CUSTOMERS

#### **SUITSUPPLY**







# 



### **SUITSUPPLY**









# 

#### **SUITSUPPLY**









# Lunch break & Little Fashion Dragon





# Fibre 2 Fibre pilots part 3





# Tricorp Jasper van den Dungen

# Tricorp Circular



Jasper van den Dungen





#### Ministerie van Defensie







- T-shirts and polo's
- 70% Post Industrial Cotton
- 30% Post Consumer Polyester
- 750 pcs in 2017
- 750 pcs in 2018
- New order to be placed in 2019











### KPU is going circular.

1. Polo-shirts

Comfort
Compulsory safety norms
From recycled content



### 2. New Life with Cliff products













- Wearing test for jeans
- Infinity cloth less appreciated at first (300gr)
- Concordia cloth (200gr) appreciated
- Now opting for 300gr winter jeans and 200gr summer jeans.

Production planned in Q2





1. Military clothing presented in March 2019!

2. Collaboration with Dutch aWEARness

3. Circularity throughout Tricorp





1. Circular product possibilities from clothing

2. Gained insights from circular concepts

3. Widespread willingness to go circular -> collaboration is key



# What's next?!

### 1) Working towards circularity

November 2019 (A&A fair tangible products) 100% cotton / polyester
Details all fully circular (zipper, labels, prints, yarn)

2) Working towards a 'leasing concept' Tricorp will own the whole process.



# TRICORP







# ASOS Sue Williamson

# CSOS

# ASOS Recycled Denim F2F Project

**GSOS** 

Sue Williamson
Established Partner, Sustainable
Sourcing

# **Project overview**

### January 2016 - December 2018

#### Aims:

- To introduce recycled denim into ASOS' supply chain and products.
- To understand:
  - Use
  - Application
  - Limitations
  - Opportunities

#### Outputs:

- This was a learning opportunity for ASOS to find sources of recycled material.
- The fibre-2-fibre pilot has supported the delivery of recycled cotton in ASOS collections.





# Project overview

Focus product: Denim jeans.

Customer: 20-somethings around the world.

Fabric composition: Cotton.

Recycled materials used:

**CmiA** 

- Post-consumer recycled denim Recover We developed pre-consumer recycled cotton from supply chain waste.

We worked with REMO to calculate environmental savings & develop marketing comms to share with our customers.

Quantity: 136,179 units.

Price: £30+

# Highlights of the project



**Global MW Instagram Post** 



**Global WW Instagram Post** 

It takes around litres of water to make a single pair of jeans.

Educational Instagram
Story (replicated on WW
& MW Accounts)



# Highlights of the project

**Co-operation** 

Working with suppliers to achieve F2F.

**Exploration** 

Networking and learning from industry experts.

Communicatio n

To our customers.

# Key insight and learnings

1. Quality of post-consumer recycled denim.

2. Maintaining a commercially viable product.

3. Collaboration.



### Next steps for ASOS

#### Our goals:

- Increase the amount of recycled cotton in our jeans and roll out to other product areas in the business.
- Scale the range of recycled cotton denim jeans.
- Contribute to ASOS' Global Fashion Agenda circular fashion commitments.
- Explore how wet processing affects recycled cotton denim jeans, both in quality and in its environmental impacts.
- Continue to collaborate to achieve results.







# JBC Valerie Geluykens

**European Clothing Action Plan** 



# I AM Green

Organization JBC nv Presenter Valerie Geluykens









I believe in a better world, therefore I buy conscious.

this denim is made out of recycled denims.

I am proud to participate on this green journey





 20% Post-Consumer Waste + 79% Bio Cotton + 1% Elasthan

- Trousers & skirts
- Women, Men, Boys & Girls
- Prices 29,99 euro 49,99 euro
- Belgium, Luxemburg & Nord-Rhein Westfalen



I AM proud to wear recycled denim





### Highlights

- Acceptable price, nice product
- Positive vibe amongst colleagues
- Limit Footprint of our production :



Used 20% recycled content, saved virgin cotton



Water saved : 1 year drinking water for 1 person



Saved enough energy to charge your phone for 1,5 years





More than 20% of this garment are fibres that were regained from old, used, thrown away denims. These fibers are blended with virgin cotton, resulting in a beautiful, strong new garment. All details like zippers, rivets, patches and stitching are made in a sustainable way.

SUSTAINABLE - TRACEABLE - FAIR Exclusively designed by I AM for JBC www.iam.eu



## Key insights and learnings

- More recycled content
- Good communication is essential
- Good relation with fabric supplier





### What's next?

- More Post- & pre-consumer waste
- Information, communication!
- Close our own loop ...















# Sustainable fibre strategies

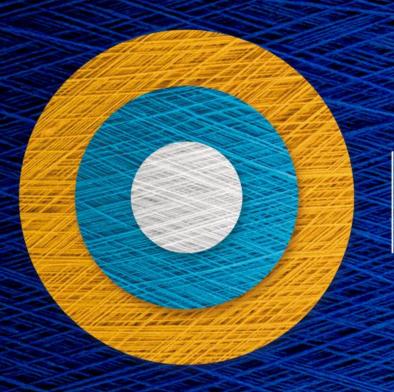
**European Clothing Action Plan** 





# Recover Hélène Smits

**European Clothing Action Plan** 



# recover® upcycled textile system by FERRE



Hélène Smits Global Business Development Manager helene@recovertex.com





#### recover Fiber Upcycling.



#### ColorBlend® Process.











2 resource-efficient processes combined to create accurate and unique colors with no dye or water applied to recover upcycled cotton fibers.



















Is the first family of Recover Upcycled Cotton yarns blended with virgin fibers for specific performance, comfort and value.











Is a natural blend of **Recover Upcycled Cotton** and Organic Cotton for comfort and durability.









Is a classic blend of Recover Upcvcled Cotton and RPET bottles, designed for comfort and all types of fashion applications.









Is an Upcycled Blend of postindustrial wool cutting scraps. PET bottles, and Nylon 6.6, designed for maximum strength and softness.











Is a super soft and sheer tri-blend of Recover Upcycled Cotton, RPET bottles and Tencel®. for fashion specific applications.











Is the state of the art in garments recycling. Natural blend of Recover Upcycled Cotton from denim garments and organic cotton.















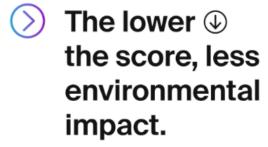
Scores are related to impacts.













8

recover®

100% upcycled cotton yarns







Dyed coventional cotton yarns





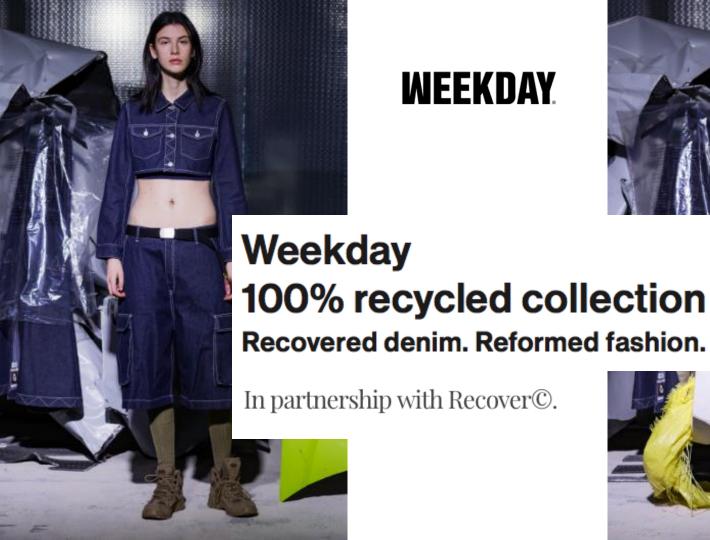


recover®



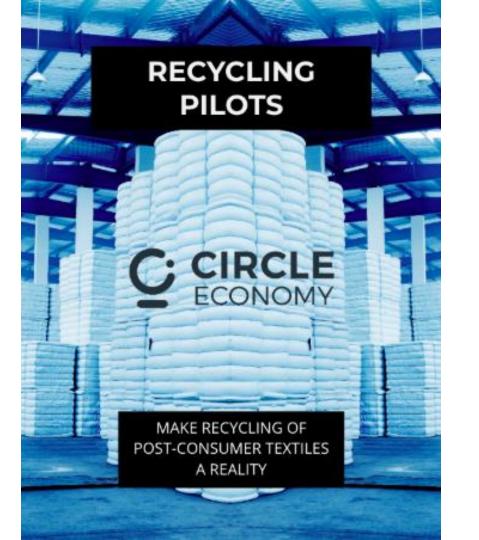






#### **WEEKDAY**





Together we can make fashion circular.



recovertex.com





# Starsock Eric Roosen

**European Clothing Action Plan** 



#### HOW TO CREATE A BETTER TOMORROW?

 What are you going to do to create a better tomorrow?



#### WHAT WE DO TO CREATE A BETTER TOMORROW?

- Joining the ECAP programme
- Make our most important materials more sustainable
  - Cotton
    - BCI
    - GOTS
    - RECYCLED
  - Polyester
    - RECYCLED
  - Polyamide
    - REGENERATED
  - Elasthan
    - BIO-BASED new materials



#### ALONE YOU CAN DO SO LITTLE BUT TOGETHER YOU CAN DO SO MUCH!

 We believe strongly in trust and cooperation throughout the whole supply chain!





#### WHO DOES WHAT?









#### FISHING NET RECOVERY 2013 - 2018



#### **PARTICIPATING COUNTRIES**

THE NETHERLANDS, BELGIUM, UK, GREECE AND ITALY

#### ACT TODAY FOR A BETTER TOMORROW



 Everybody in this room can make the difference by changing their behaviour NOW!

 Walk around the stands and start buying sustainable items!









## **Brainworks!**

Love your Clothes

Love not Landfill

Circular Business Models

Re-commerce & Rental Concepts

**Circular Logistics** 

Little Fashion Dragon





# Short break!!

**European Clothing Action Plan** 













## Welcome Deputy Mayor Marieke van Doorninck

**European Clothing Action Plan** 









#### Blue **LCOP**

















SUITSUPPLY

WORK ON PROGRESS\*

**HAVEP** 









**DanishFashionInstitute** 





**Circular Textiles** Ready to market