# REMEUJCELL



#### We're Renewcell

We're a Swedish industrial company with a unique textile recycling technology that can transform the global fashion industry for the better.

Our vision is to inspire an Industrial Evolution.





## The fashion industry is not sustainable

- Water use and land use
- Polyester clothing causes 35 percent of ocean microplastics
- Every year, more than 200 million trees are cut down to make fabrics
- Less than 1 percent of clothes are recycled back into clothing



#### We close the loop



### We turn textile waste into Circulose®





### We're scaling up

- Sundsvall, Sweden
- Conversion of a former paper mill
- 100% renewable energy
- 120 kton capacity (~600 million t-shirts)
- Start up Q2 2022



Circulose<sup>®</sup> is a 'dissolving pulp' made from 100% textile waste, like worn-out jeans and production scraps.

It is used to make staple fiber or filament viscose, lyocell, modal, acetate or other types of man-made cellulosic fibres.

www.circulo.se

CIRCULOSE

I used to be a

pair of jeans.





#### Circulose<sup>®</sup> offers radical impact reduction



1. Non-cotton cellulosic; 2. CO2 impact from cotton ranging from 0.5-4 kg CO2 equivalents per kg fibers (excluding CO2 sequestered in the fiber), but it is not unusual with results up to about 6 kg CO2 equivalents, all based on 14 studies over 50 different production routes; 3. Indicative; 4. Information missing

Source: Niinimäki et al "The Environmental Price of Fast Fashion" Nature 2020, SCS Global Services; Cotton Campaign, Carney Almroth et al, "Quantifying shedding of synthetic fibers from textiles; a source of microplastics released into the environment" 2017, Wikifarmer, internal calculations

#### Circulose<sup>®</sup> is equal to virgin fiber quality



Arket x Circulose® 58% Wool, 42% Viscose (made with 30% Circulose®)



H&M Conscious Exclusive x Circulose® Jacquard Dress Viscose 100% (50% Circulose®)



Levi's 501® x Circulose® 60% cotton, 40% Viscose (made with 40% Circulose®)



Object x Circulose® 100% viscose (made with 30% Circulose®)



Vero Moda x Circulose® Dress 100% viscose (made with 30% Circulose®)



KappAhl x Circulose<sup>®</sup> 100% Viscose (made with 50% Circulose<sup>®</sup>)



 KappAhl x Circulose®
 Levi's 502 x Circulose®

 100% Viscose (made with 50% Circulose®)
 60% cotton, 40% Viscose (made with 50% Circulose®)



Levi's Wellthread x Circulose® 60% cotton, 40% Viscose (made with 50% Circulose®)



H&M x Circulose® 100% Viscose (made with 30% Circulose®)

### **Qualities Produced**

#### Viscose staple fiber

- Recycled content: 30-50%
- woven, denim
- Yarn count: 20-60 Nm
- Tenacity: 1.85-2.0 dTex
- Spinning methods: Ring/OE/Spiro
- Blends: Cotton 20%/40%/60%

#### In development 2022-2023

- Recycled content: 50-100%
- Viscose filament yarn
- Lyocell fiber
- Acetate fiber
- Silk and wool blends



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