



MycotEX®

the only **automated seamless manufacturing method**  
allowing for **custom made** products  
grown from **compostable** mushroom roots

## Grants & awards



Utrecht University

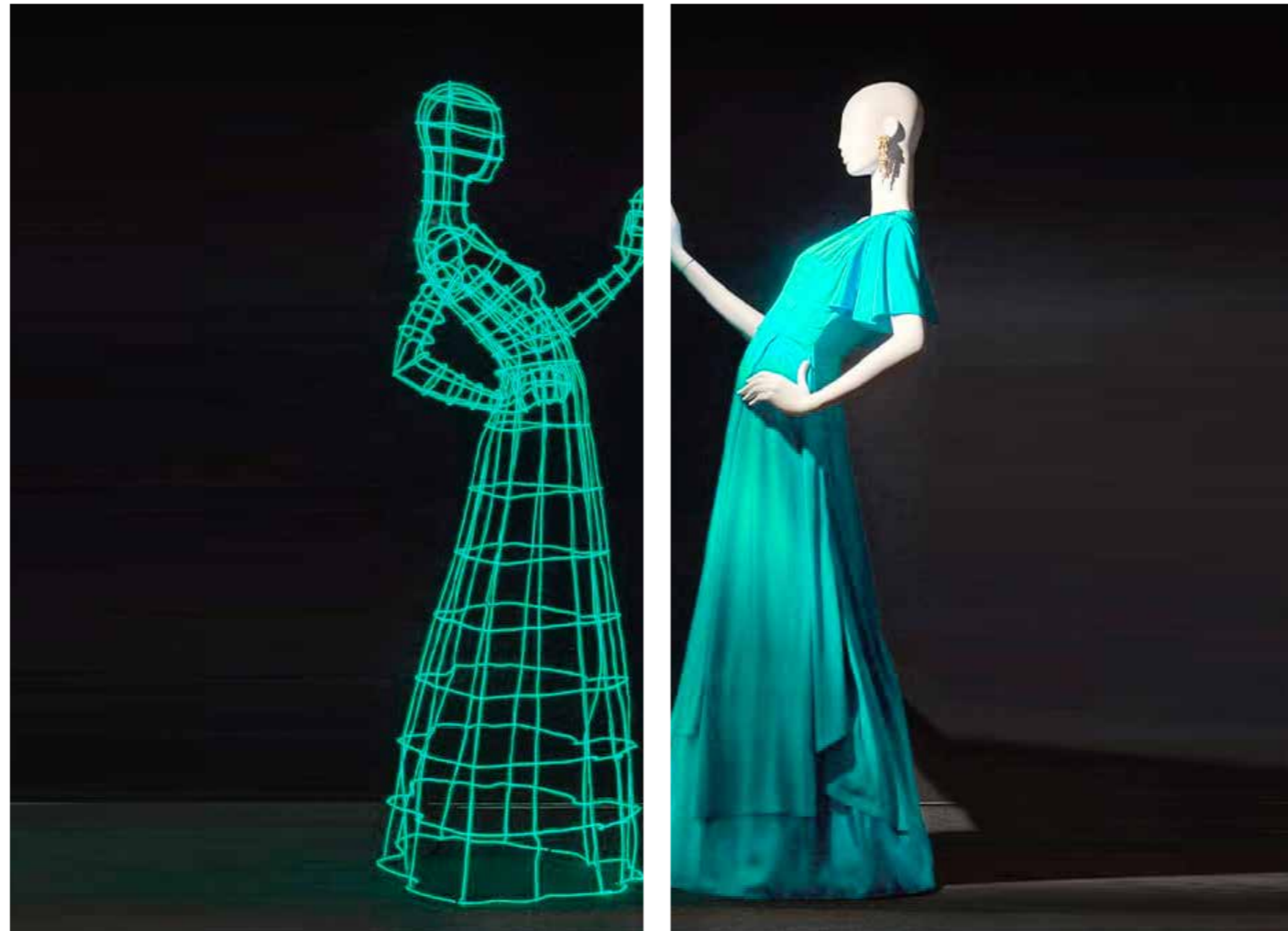


## problem: Combination of fashion vs sustainability

Fashion is becoming pressurized to change it's ways as consumers are becoming more conscious and more demanding. A difficult task for brands, considering they need to deal with a complex and cloudy 200-year-old supply chain based on overproduction, waste, heavy labour, wateruse, CO2 emission and more

### fashionable

- unique design
- perfect fit
- great quality
- new technology
- innovation
- lower price

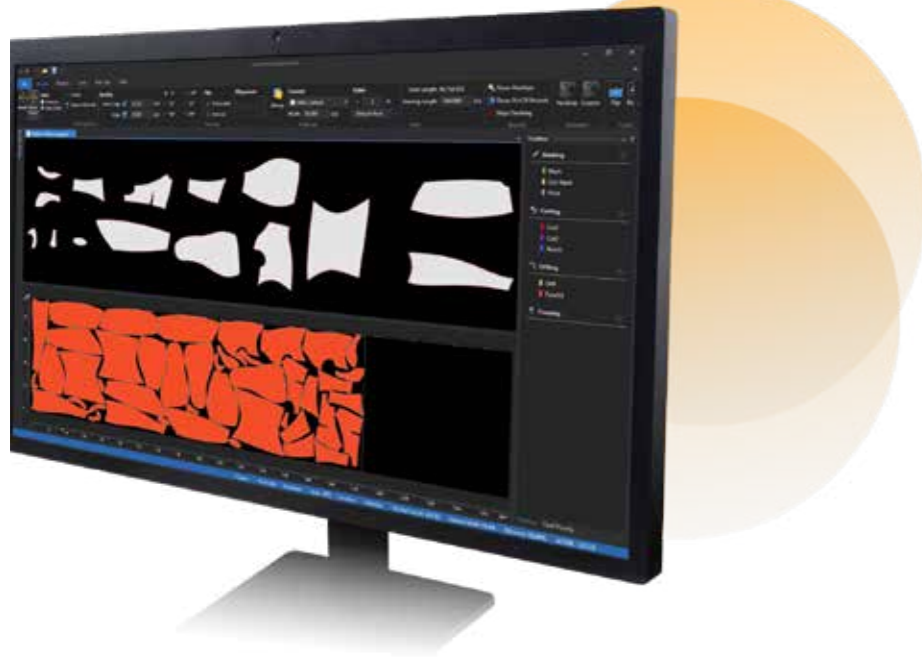


### sustainable

- natural material
- vegan
- less waste
- recycling
- clean production
- transparent

## **solution: New standard for textile manufacturing**

MycōTEX is a groundbreaking seamless manufacturing method solving several major issues in the fashion, interior and automotive industries, whilst allowing for mass customization.



*No more cutting and sewing operations that are wasteful and laborious*



*Plastics and leather can be replaced with a home compostable material*



*Improved comfort due to seamless construction and fit*

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MycotEX® is  
the world's 1st  
compostable  
textile

in combination  
with a seamless  
manufacturing  
technique

to make  
personalised fashion  
without waste

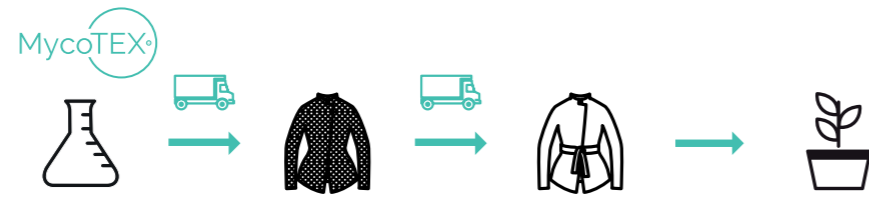
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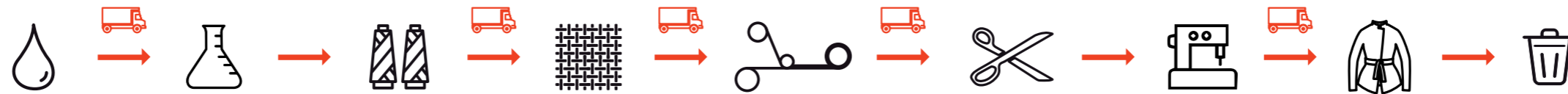
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**NEFFA** MycoTEX®

# Shorter & simple supply chain



## 1. SYNTHETICS / FAKE LEATHER / VEGAN LEATHER ALTERNATIVES



## 2. LEATHER



## 3. MYCELIUM COMPETITORS



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First scale-up  
steps at  
BioBase Europe  
Pilot Plant

&

Feasibility study  
by RISE

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© Bio Base Europe Pilot Plant by Fille Roelants



## Benefits of the KET4CP Microgrant Project

### **MycoTEX**

- Achieved the scale-up of raw biomass to a 150L bioreactor.
- Went from TRL 4 to TRL 5, heading towards 6
- Gathered the necessary data to approach investors for the next scale-up step: first investors showed commitment

### **Perspectives**

- When fully scaled-up, MycoTEX could reach up to half of the price of bovine leather and lead to a reduction of 75% in terms of energy use
- Results confirm a reduction of waste and resources and the elimination of hazardous chemicals, pesticides and farmland

### **Conclusion**

Fungal biomass from liquid fermentation is a suitable, affordable, and environmentally friendly material for the textile industry

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*"You never change things by fighting the existing reality. To change something, build a new model that makes the existing model obsolete."*

**Buckminster Fuller**

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## **MycotEX BV**

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