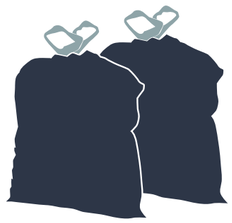
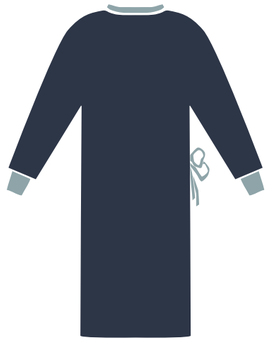
Problem/ Solution

The Problem



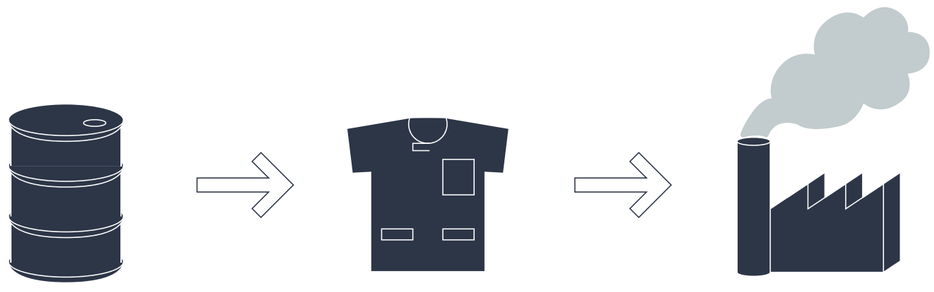
13.6 kg

In the USA hospitals generate 13.6 kilogram of waste per patient per day.[1]

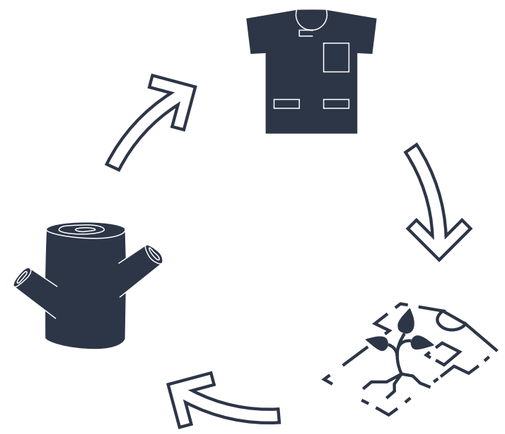


2.5 mio

In the UK alone more than 2.5 mio gowns were distributed per day from February to July 2020.[2]

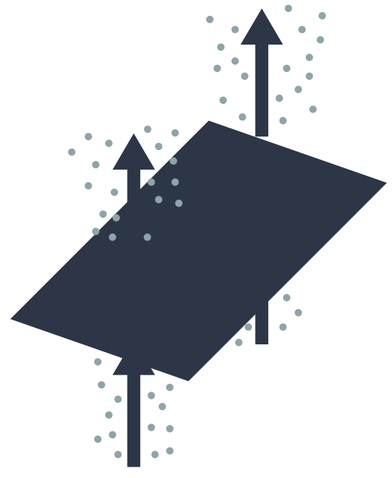


The Solution



100%

The concept of Cima is to make the new garments completely out of renewable and biodegradable resources and make circularity possible.



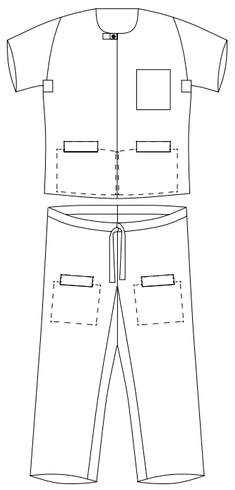
32x

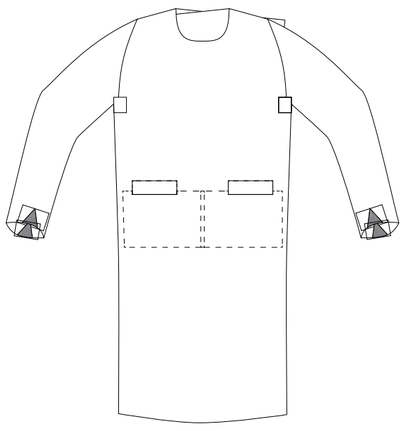
The cellulose fibres guarantee a higher breathability and a 32x biger moisture absorption compared to polyester fibres.

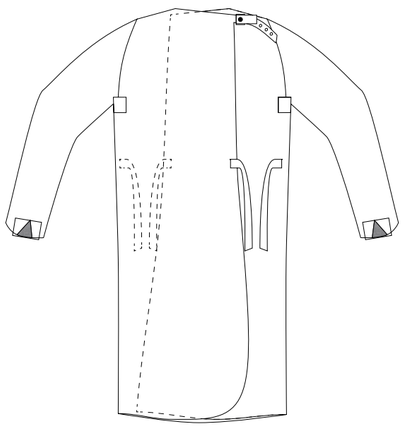
[1] Sustainability Roadmap for Hospitals

[2] Department of Health and Social Care UK

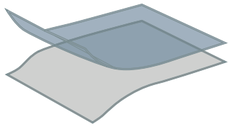
The Collection





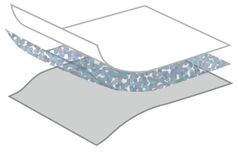


Material development

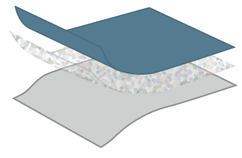


Coatings
Two possible biodegradable coatings are a water repellent and an antibacterial finish.

Nonwoven
The newly developed nonwoven blend should be competitive in price. Furthermore it should be comfortable to wear and suitable for ultrasonic welding.



Hot melt adhesive
The hot melt adhesive used must have a relatively low processing temperature, as the membrane and the nonwoven must not be damaged during lamination.



Waterproof membrane
The biodegradable coating of the Swiss start-up Dimpora was the origin of the project and made an application of in the very demanding medical industry feasible.

Forum

DAS MATERIAL DER ZUKUNFT:
MIT TEXTILIEN ZUM
NACHHALTIGEN UNTERNEHMERTUM

20.9.2021, STUTTGART
HOUSE OF SWITZERLAND

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