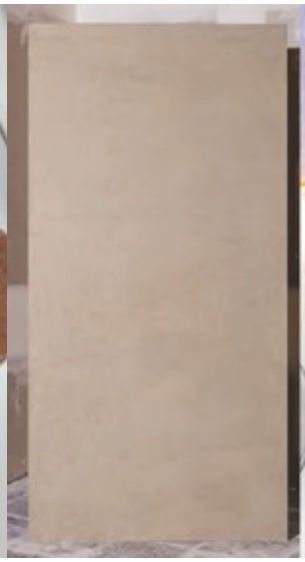
FLEXIROOM

Mobile fitting room

We aimed to create a flexible mobile fitting room that could be used in flea markets that are short on space using sustainable bio-based materials.

This fitting room consists of a long sheet of cellulose leather supported by Honext's panels on either sides. It is bendable; consists of wheels that can be moved at will, hangers made of MFC, and finally a compact stick on mirror. This product is ideal for vintage stores and flea markets that don't have enough space for fixed installations. It can also be customised (in terms of design and aesthetics) as per the needs of the customer. We primarily used wood based materials like cellulose for this project.



Areas of materials involved.

Feasibility of the idea.

CONCEPTUAL — READY-TO-MARKET

Aitor Juaristi Diez,
Mechanical and design engineering,
TECNUN

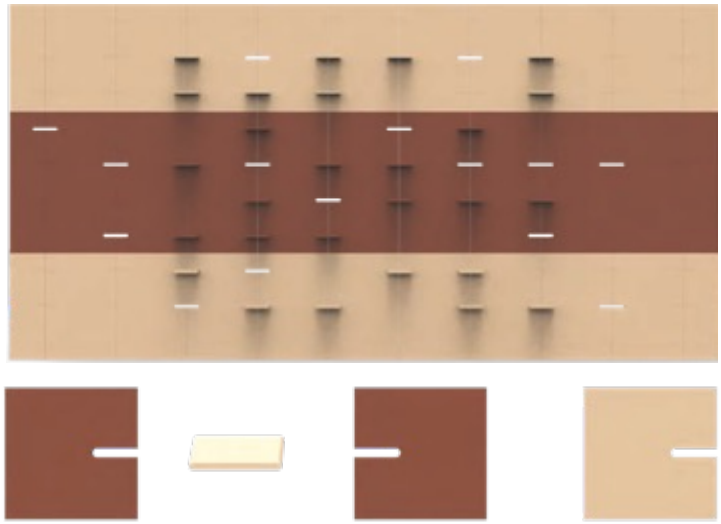
Pranava Sai Aravinda Pakala
Electronics and Nanotechnology,
Aalto

Martina Paramatti
Design & Engineering,
Polimi

Helena Troelsen
Sustainable fashion and tech,
KEA

HONEXT

Retail



A tile based on paper mill waste, with a slot for the attachment of modular wood dust and bers reinforced shelving units. The slots can be utilized forother wall xtures like lights, hooks, etc.

Wall panels made of cellulose based waste have many benefits. However, they are not the best for continuous customisation and for load bearing activities. These properties would be benefcial at retail stores, where shelving, lighting needs etc are dynamically changing. Our panels, having a slot with scope of attachment of an assortment of objects, such as lights and projections to support merchandise on display, can make usage of these papermill waste panels a more viable option in the commercial space.

Areas of materials involved.

Feasibility of the idea.

CONCEPTUAL — READY-TO-MARKET

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Pauline Rousseau
Jewellery design, KEA

Satyaki Roy
Creative Sustainability, Aalto

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Design & Engineering, Polimi

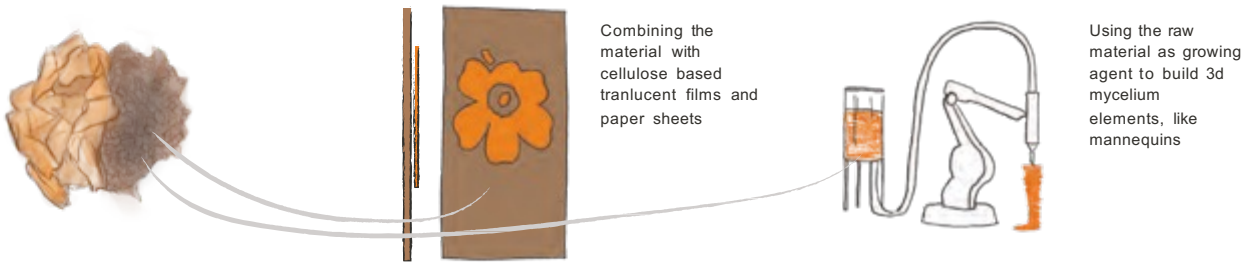
NATURAL DISPLAY

Retail window display system

Retail window display system made of recycled cellulose based panels. Personalized and modular elements for temporary and dynamic instore advertising applications.

Paper production waste is valorized through a circular process. We add value to recycled material with innovative material combination. The system is designed in a way that is versatile, scalabile and replicabile in different elements of the store or even in diverse markets and brands.

The improvement of the based material gives the prospect or creating healthy and sustainable environments. At the same time, this product aims to create consumers awareness toward sustainable and carbon neutral products.



Areas of materials involved.

Feasibility of the idea.

CONCEPTUAL — READY-TO-MARKET

Javier Bereciartua
Mechanical Engineering & Product Design, TECNUN

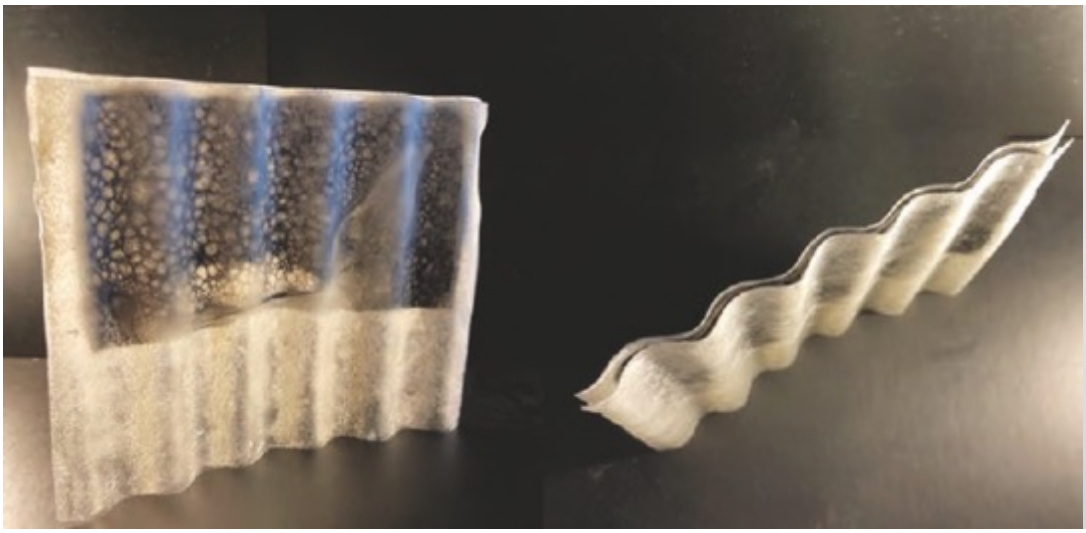
Clara Esteva
Design and Engineering, Polimi

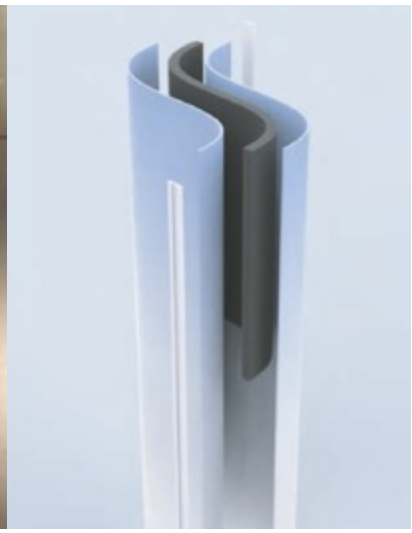
Marta Kłyszejko
Jewellery, Technology and business, KEA

Mira Niittymäki
Contemporary Design, Aalto

SPLIT AIR

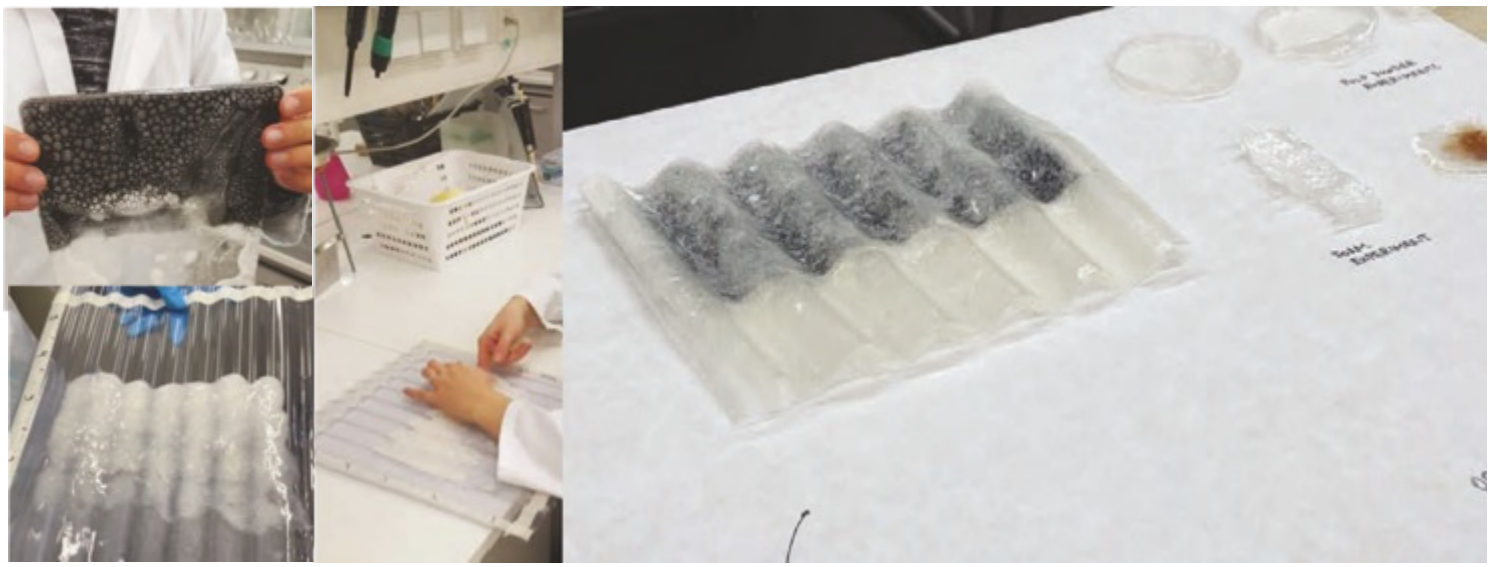
Air filtration system





This is a functional and aesthetic divider that can beused in multiple locations. The dividers consist of biodegradable materials based on cellulose and carbon foam.

Split-aircombinesmultipleinnovativematerialsandtechnologies. Theoutergradient panels are made of cellulose, which allows for a natural feel and touch. Due to its hydrophilic nature, it is coated with a superhydrophobic self-cleaning nano spray which will enable easy cleaning. The carbon foam is integrated on the upper part between these panels, which has the properties of filtering air, smoke and smell, especially advantageous for a clinical environment. The sides are closed with cellulose attachments, althrough the top is left open to allow for ventilation.
The challenge may be how to attach these materials together sustainably to consider the disposal process.



Areas of materials involved.

Feasibility of the idea.

CONCEPTUAL — READY-TO-MARKET

Ena Naito
Contemporary Design, Aalto

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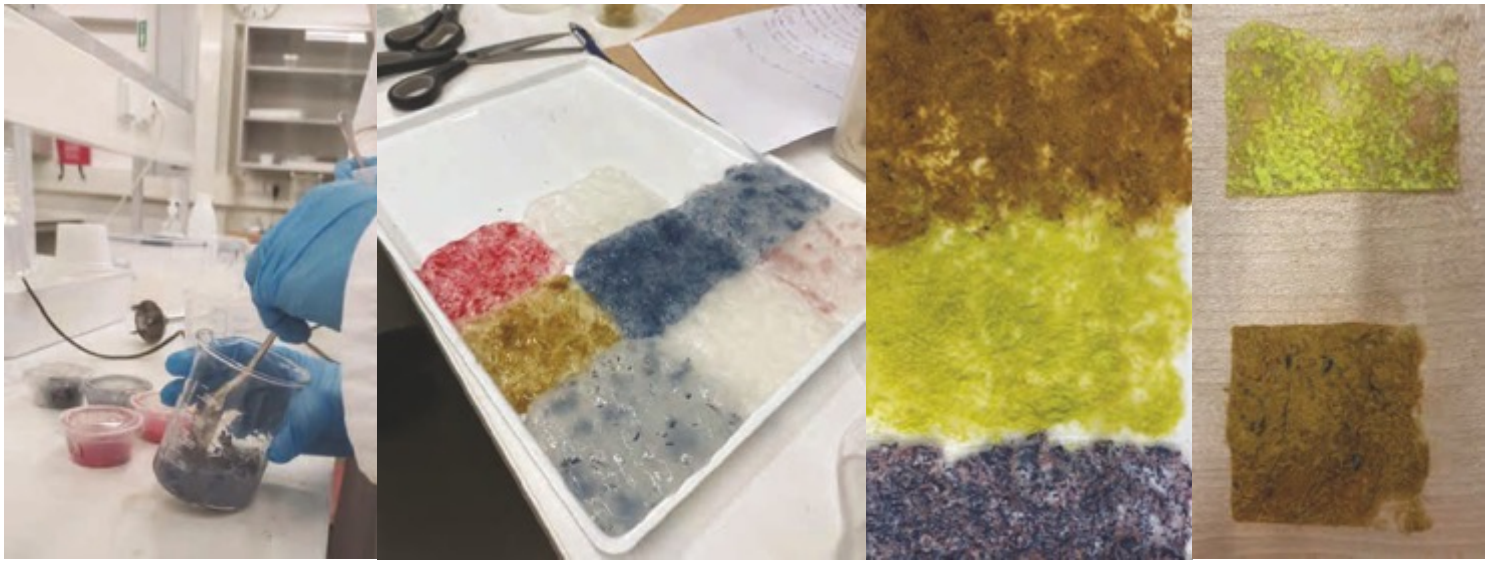
TEXTILE WASTE

Wallpaper

The wallpaper combines unwanted textile waste and the properties of the wood based materials and creates a new innovative and visual solution for Honext boards.

Apart from recycling waste textile, the main role of this material is to improve the aesthetics of the Honext boards. For that purpose, textile waste fabrics are used to get different patterns and colours, thus extending their life cycle. In addition to aesthetics, acoustic properties are also improved, as the low density of the textile fabrics strengthen the noise retention. To develop this material, four main ingredients have been used, glycerol, NFC, water and waste fabrics. To get different patterns and colours, different fibers and techniques can be used. The new material can be applied directly on the Honext boards with both water and MC once it has been produced.



Areas of materials involved.

Feasibility of the idea.

CONCEPTUAL — READY-TO-MARKET

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