GROUP 3

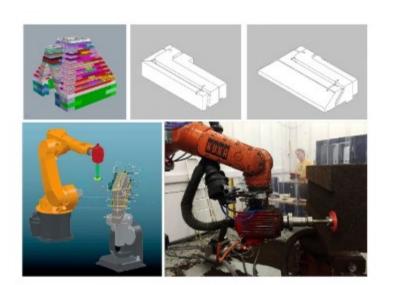
ADRIANNA KARNASZEWSKA AGNIESZKA TRZCIŃSKA KAROLINA KRZYŻANOWSKA ZOFIA SOŚNIERZ

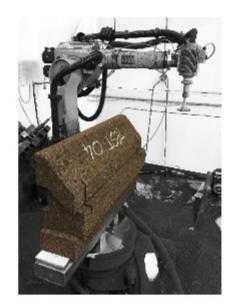
URBAN FURNITURE INITIAL IDEAS

MATERIAL

wood based biopolymers

Wood is perhaps one of the oldest biomaterials in commercial production. Bio-based polymers extracted from wood, such as lignin or cellulose, are in demand in the specialty chemicals and composite materials market. More recently, startups are exploring the possibilities of supplementing wood with other biopolymers to create augmented wood. It is weather-proof, more fire-resistant, and much stronger. This makes it suitable for different applications in the automotive and construction sectors.







robotically milled cork



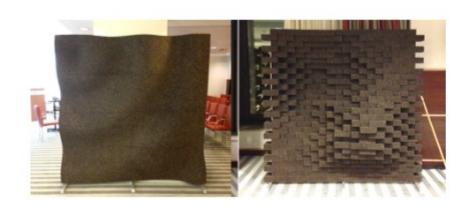




DESIGN AND ROBOTIC PRODUCTION

- milled cork
- · 3d printed composites





STREET INSTALLATIONS







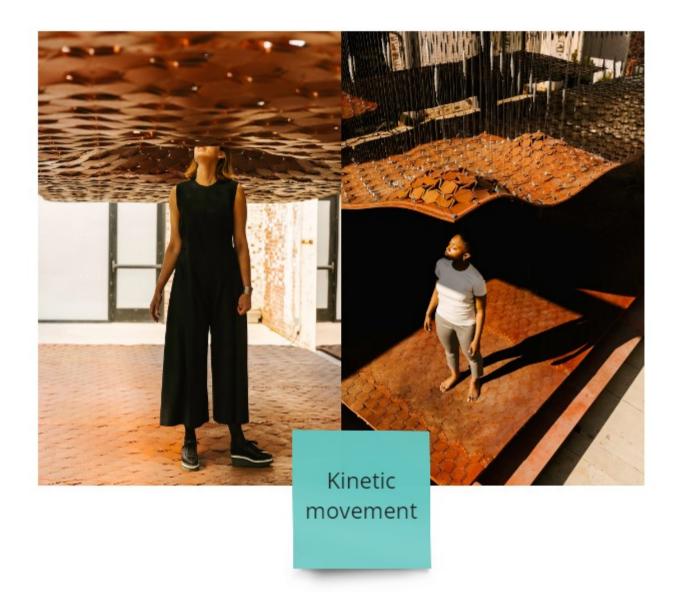


- · way finding
- information
- illumination/lighting adjustment
- opening/closing the structure according to climate/environmental changes
- opening/closing the structure according to users needs



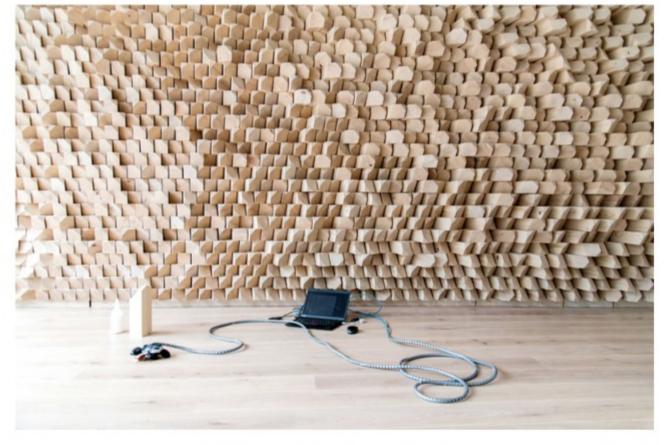


MATERIAL

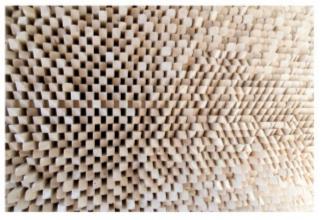


USEFUL LINKS:

- https://www.icd.unistuttgart.de/projects/
- https://www.gramaziokohler.arch. ethz.ch/web/d/projekte/index.html







PARAMETRIC SHADING

INTERACTIVE ROOFING OVER STREETS- Opening Dependent on the rain/sun







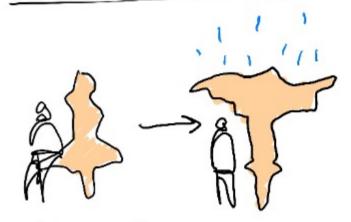




IDEAS

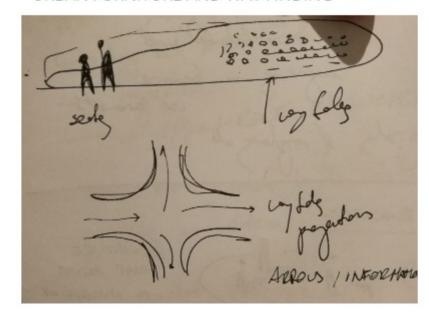
RAIN SHELTER

1:1 PROTOTUPE ARCHITECTURE



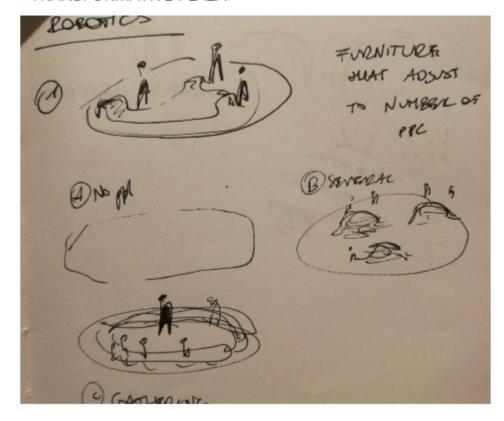
RAIN SHELTER PROPS

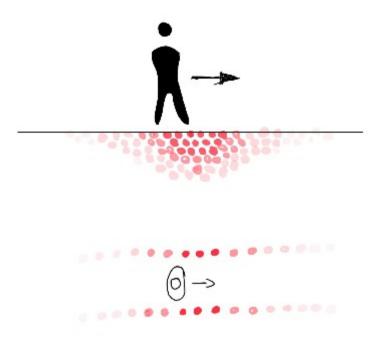
URBAN FURNITURE AND WAY FINDING



PRESSURE-BASED RESPONSIVE PATH ILLUMINATION

TRANSFORMATIVE PLAZA





CONCEPT DIRECTION



