

SCENARIO



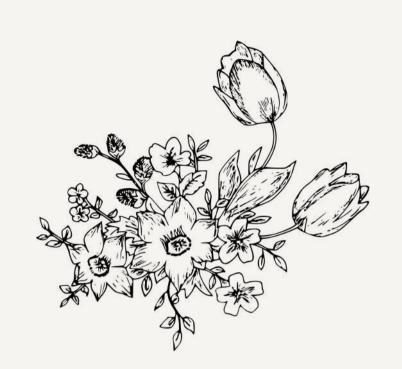
Welcome to a future where the intricate **bond between soil fertility and reproductive health** takes centre stage in our food systems. Drawing inspiration from origin narratives across diverse cultures, we discover a **profound connection between human existence and the soil beneath our feet.**

However, our journey unfolds against the backdrop of a sobering reality: **the degradation of our soil, our most essential resource, is accelerating at an alarming pace**. As we face this crisis, our path forward into the future is shaped by an urgent call for change.

In this envisioned future, symbiotic relationships between humans and soil become necessary, **transcending mere physical touch to become a unifying force for the well-being of both humanity and the planet**. Technological advancements serve as a catalyst for this transformation, fostering connections with nature, promoting regeneration, and fostering harmonious coexistence.

Here, the **soil** is **revered** as a living, breathing entity, and individuals are intimately attuned to its rhythms. Our journey extends into the realm of reproductive technology. In the future, deforestation will drastically alter the landscape, leaving it barren and depleted of vital ecosystems. It will become necessary for **humans** to intervene and aid in the **reforestation** efforts to restore balance to the Earth. Fashion is used as a tool for soil fertility measurement and recovery.

OUR PROJECT



The development of a revolutionary garment utilizing advanced 3D printing technology. This innovative piece is designed to measure soil fertility and reflect its status onto the wearer's body. By considering five crucial fertility factors, our garment provides real-time feedback on soil health and data on what nutrients it is lacking.

Here's how it works: If the soil lacks essential nutrients, the garment exerts gentle pressure on the body through inflatable components, causing discomfort. This dynamic response allows users to better understand the intimate connection between soil fertility and human well-being and fertility.

Through this project, we aim to **foster a deeper connection with the soil and raise awareness about the importance of reconnecting with our planet**. By bridging the gap between soil health and human fertility, our innovative garment opens up new possibilities for environmental stewardship and holistic well-being.



Transformative New Paradigm | Psychologically-Induced Environmental Activism

A dress with an inflatable stomach provides a visual cue that responds to poorly fertile soil. This can trigger a motherly instinct in the wearer. This design initiative encourages women to sacrifice a piece of their second skin, tearing off specially designed segments to nourish the degraded soil.



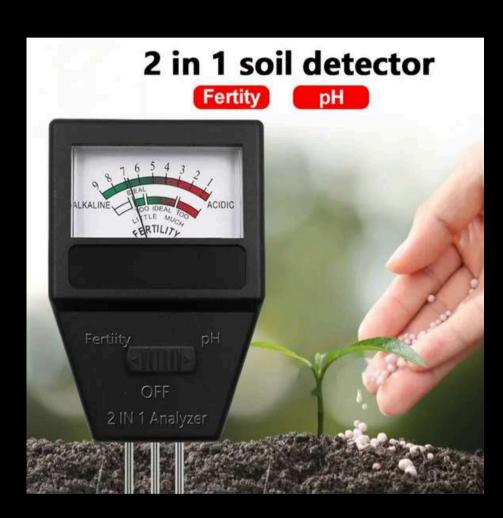




TECHNOLOGIES USED



Zigbee Smart 4 In 1 Soil Tester



2-in-1 Soil PH And Fertility Meter Test Pen Nitrogen Phosphorus Potassium Analyzer



AHEAD
Advanced Heat Exchange
Devices

THE 5 ELEMENTS MESURED



РΗ

Light Level

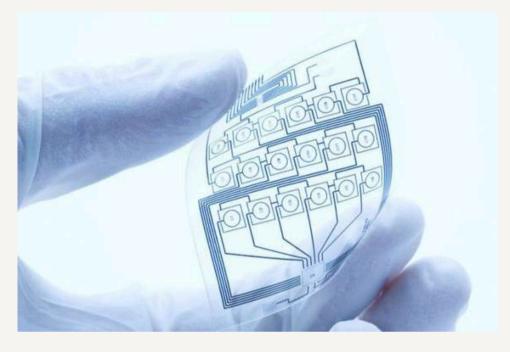
Soil Temperature

Humidity

Air Temperature

TECHNOLOGICAL BASIS: SHOE MONITORING

The monitoring of the soil and impact assessment is carried out by stake sensors placed at the bottom of a shoe. Using a flexible electronic biomaterial casing, sensors run from the bottom of a stocking up to a stomach piece with air-pockets that inflate. The shoes are programmed to set off the inflation mechanism based off of a numerical range within each parameter that it measures (pH, light level, soil temperature, humidity and air temperature). The data from the shoes will be gathered for analytic purposes, measuring soil health worldwide.





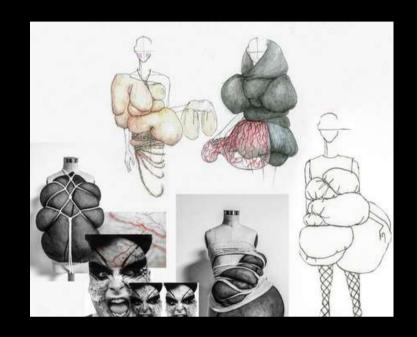




Concept Design

Inflatable Mechanism:

The dress features an inflatable stomach area which is achieved using a bladder that can be inflated and deflated. The inflation is triggered by sensors in shoes that detect poor soil fertility based on pH, light level, soil temperature, humidity and air temperature.



Aesthetic:

Using parametric voronoid shape to mimic cracked, dry soil. The stomach area visibly inflates to represent poor soil health.



Material Choice:

Use biodegradable and organic materials for the dress, ensuring that when segments are ripped off, they can be effectively used to nourish the soil.



Ripping Segments:

Perforated segments containing seeds, nutrients, or compostable materials that nourish their soil in their degradation.









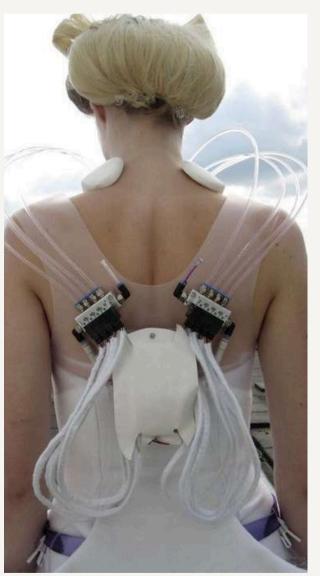
MOODBOARD



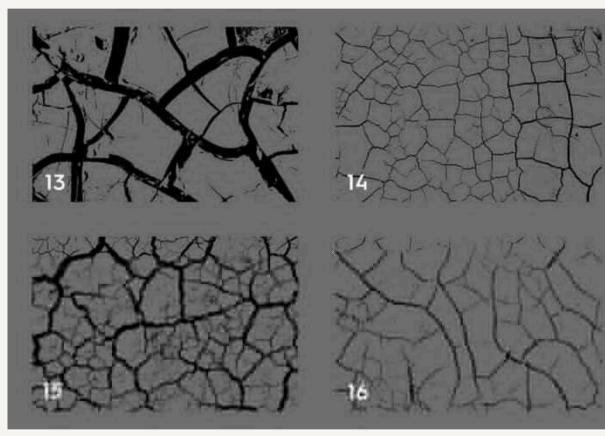
























PROCESS DRESS CLO



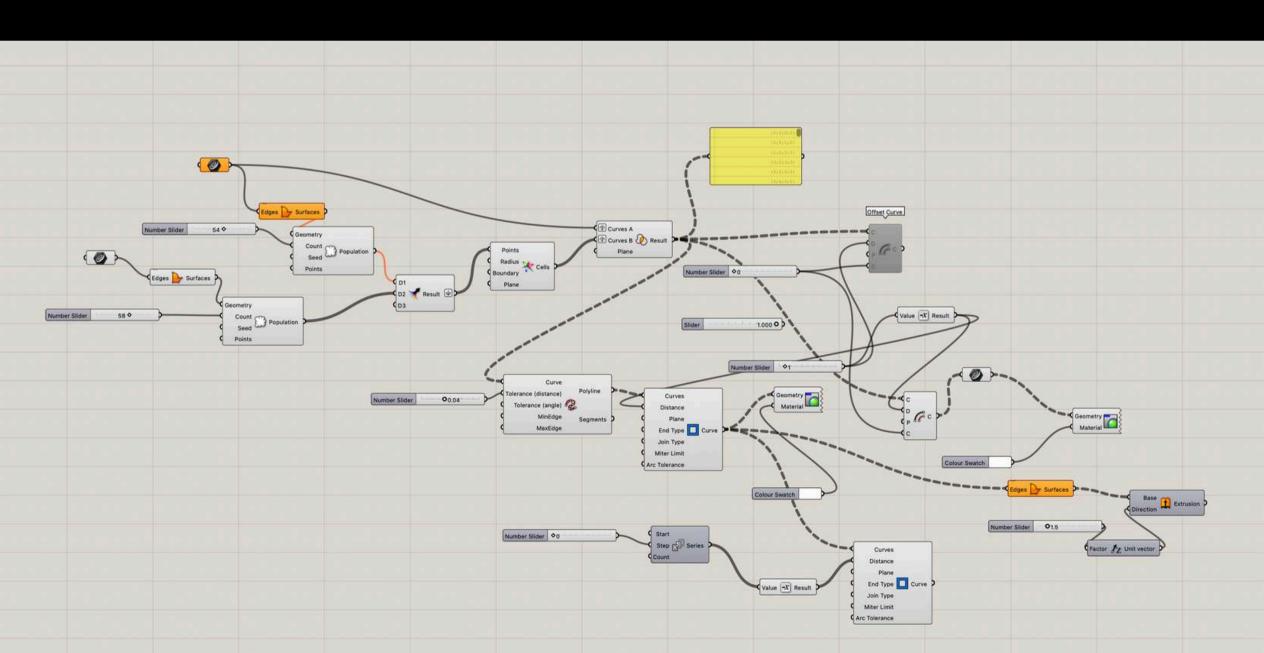


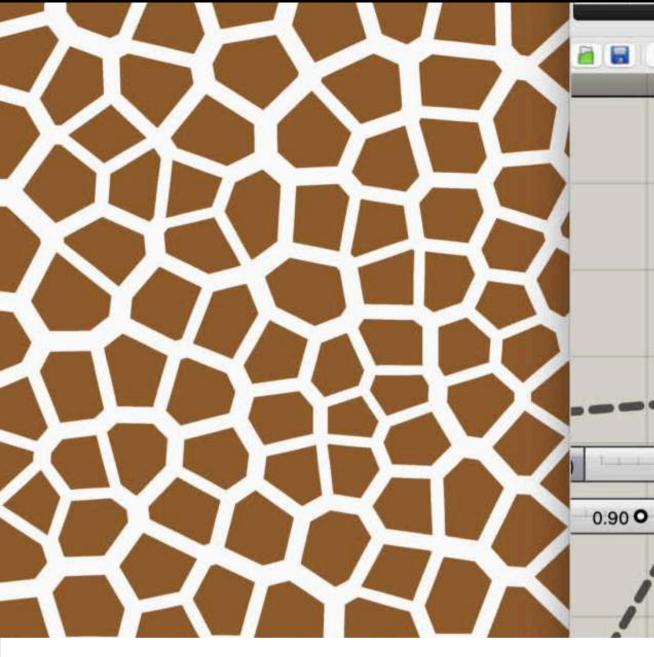


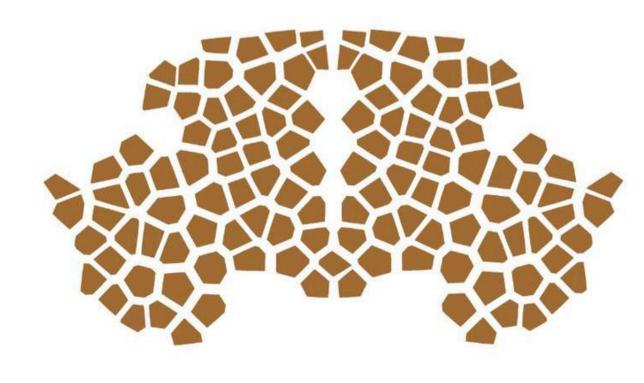




PROCESS GRASSHOPPER VORONOI PATTERN







3D PRINTING CORSET & COLLAR







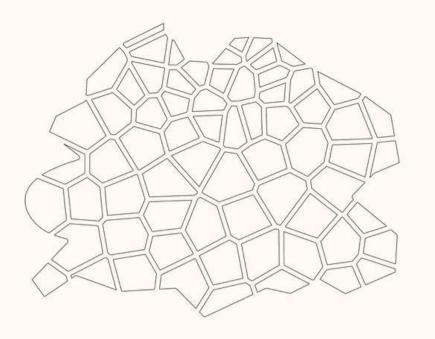
BROWN & WHITE

SANDWICH 3D PRINTING ON MESH





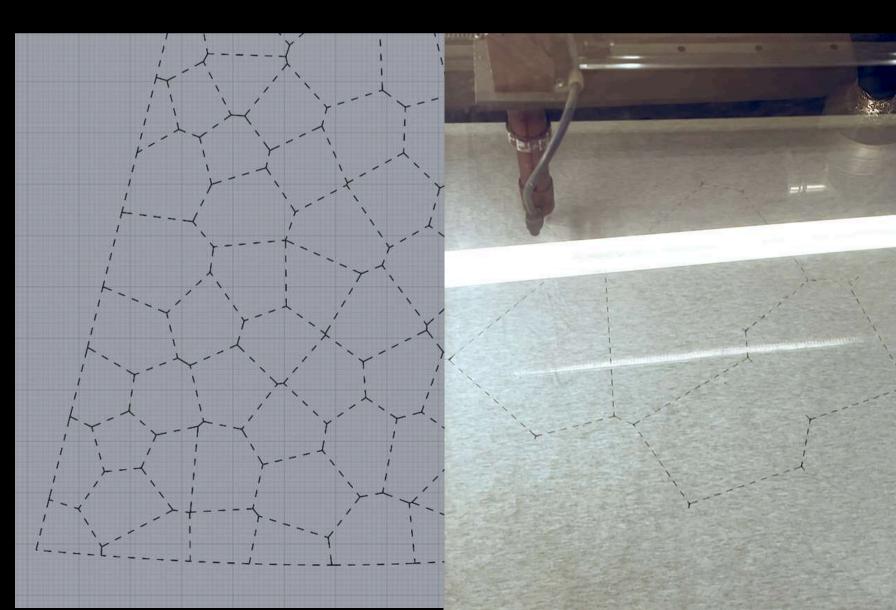
LASER-CUTTING SHOES







LASER-CUTTING WOOL-COTTON BLEND TEXTILE



PROCESS SEWING

















