Home

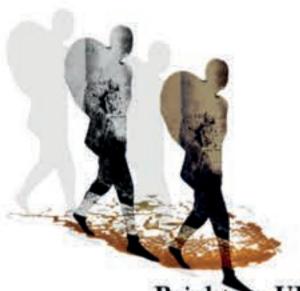
What is home? For refugees, forced displacement reshapes their idea of home. The Jungle play is based on true events, depicting the struggles they encounter.

Okot I have never been this far from my mother . . . I cannot be boy any more . . . That was my first death.

DEATH OF ONES HOME. HOPE. REBIRTH.

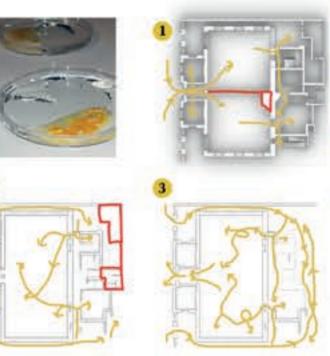


Slime mould analogy:



Brighton, UK

Movements based off of slime nould in regards to the site:

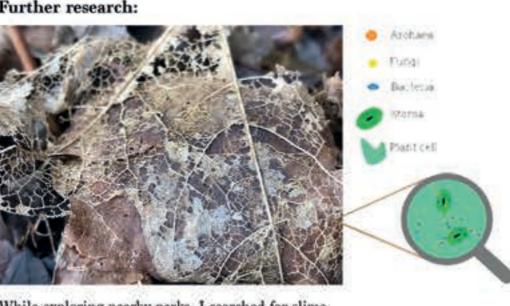


A2 1:50 plan sections

Key:

- Observing obstructions that limit interactions.
- Taking out the back oilets so the garden is connected. Provides more outside space for growing food.
- Flow and movement of people throughout the space.
- Development extending the journey to the food sources by changing the entrance and creating more interactions.
- Remove areas to improve movement and engagement in spaces.

Further research:



they may exist in their unicellular form on this plant matter.

Description:

This project aims to integrate refugees into the local community through communal gardening. Creating a self-sufficient system that optimizes food growth is at the heart of this project. I employed slime mould as an analogy for movement within my design, as well as inspiration for materiality, to help optimize the reduction of CO2 and landfill waste. I utilized a range of sustainable and eco-friendly materials.

While exploring nearby parks, I searched for slime moulds but instead found a variety of fungi, decaying wood, and leaves. These types of environments are ideal for slime moulds to thrive in. However, slime moulds can be microscopic, their size depends on the specific type and stage of their life cycle. Therefore,

Materials to gather from this:

Decay is a process of form making

Looking at where slime moulds are found for materiality.

Findings & what materials I could use:



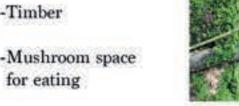
-Timber

- Leaves

health

for eating

degrading for soil



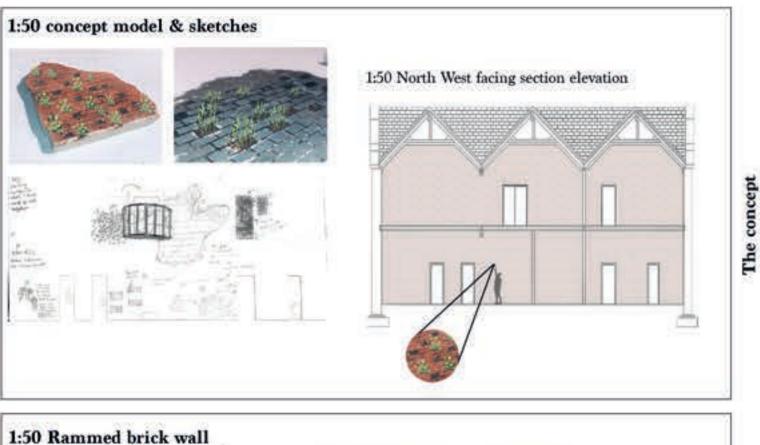
- Moss for humidity



- Soil - rammed Earth - Cob

Walls

Exploration of soil based materials to either grow food or potray building decay. Death, hope, rebirth.



(Terracotta brick extracted)



Extracted and used for paths:



A2 1:50 North West facing section elevation



Problem:

- Bungaroosh walls that limit the use of the brick - Terracotta brick lasts over 100 years - Rammed Earth brick lasts 50-70 years

-Solution:

-Use a rendering to cover walls to optimise the internal environment for both growing plants and human health. 1:50 Bungaroosh wall with Terracotta render



Terracotta benifits:

- Thermal mass properties, regulation for plant health
- Helps maintain optimal humidity levels to prevent mold or mildew growth.
- Environmentally friendly
- Terracotta can help improve indoor air quality by absorbing toxins and pollutants from the air.

Use for material samples:



Soil test	
Son test	
Key: 1 Suitable for st 2 Suitable for v interaction pu	isuals &
Rammed E	arth
25% clay 25% silt 40% sand 10% cement sta	Add y
Add water so it rained upon Conduct drop	Adde
Rammed Eart	h making process
	A 300mm wall - resist of at least 90 minutes

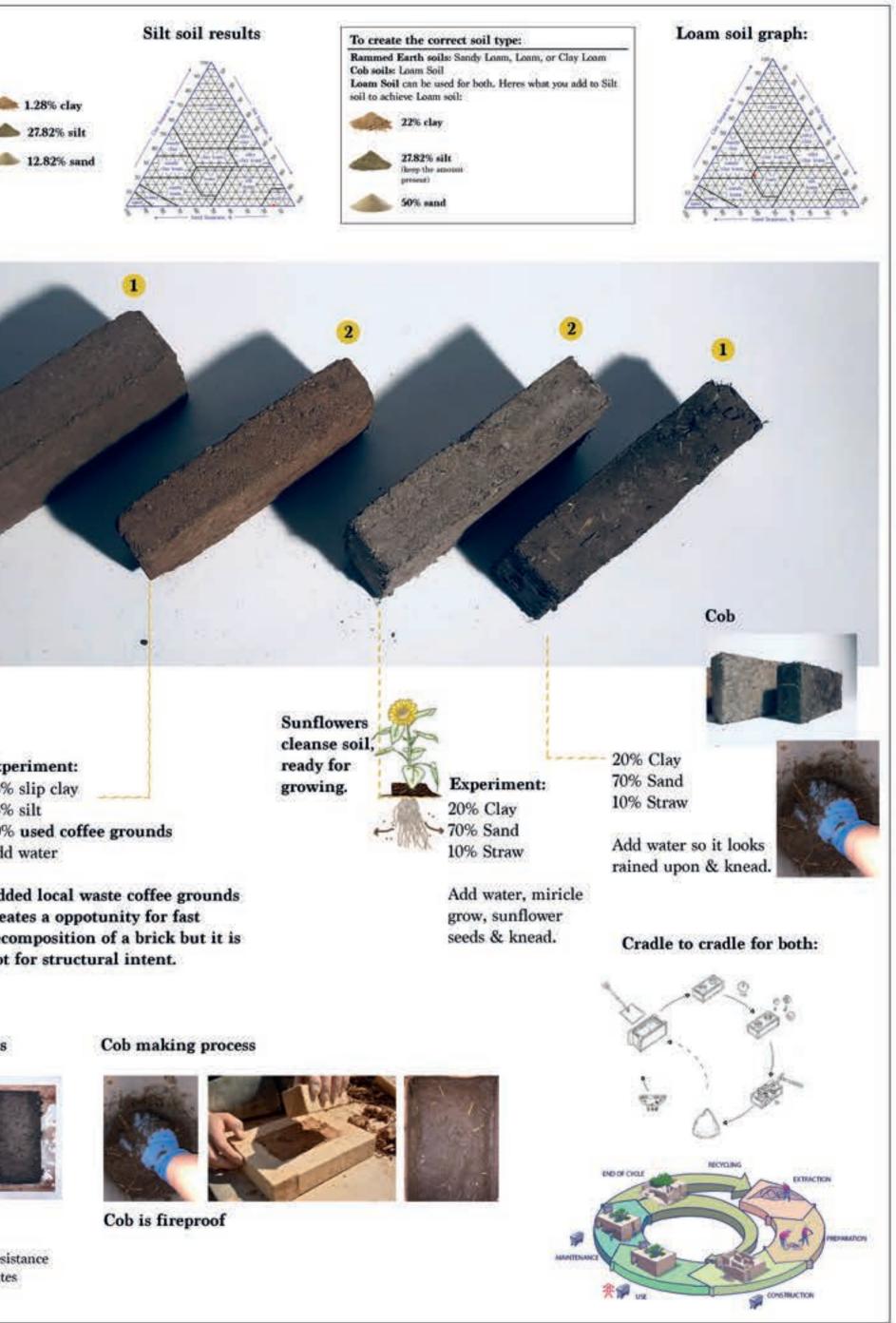
concept

action

require

Problems that

Alterations



Development & seed paper station

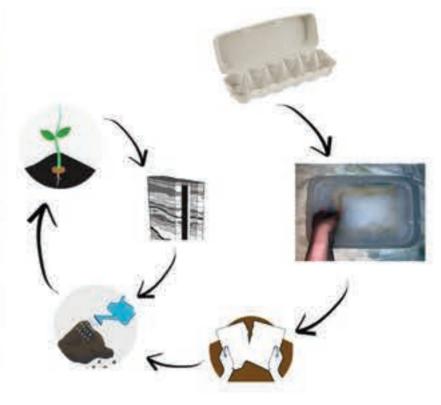
Creating an onsite paper-making station made of recycled materials. The seeded paper can be torn off the wall and planted to produce vegetables, acting as carbon sinks that help remove CO2.

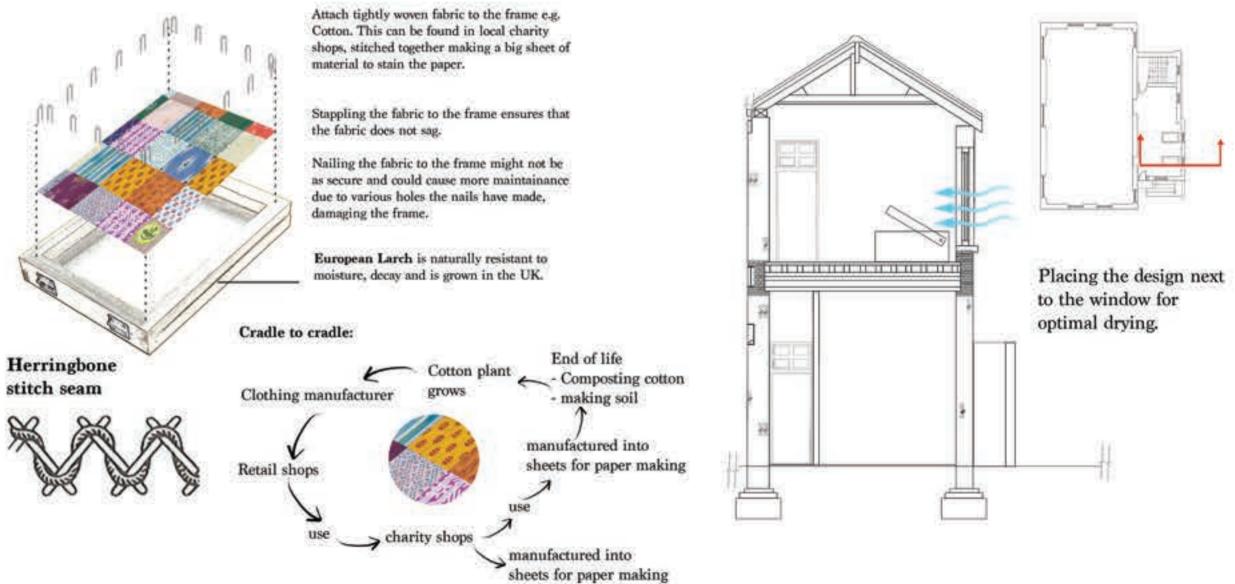
Recycled paper making process:



Decaying leaf recycled paper

Seeded recycled paper





stitch seam



Taking the embedding of seeds & making it into an activity for the community.



1:1 Rammed Earth sample with mixed seeds for planting & decaying leaves for extra soil nutrients once planted.



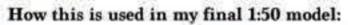


Micro-fibres allow pieces to be stuck back on & left to be planted another day.





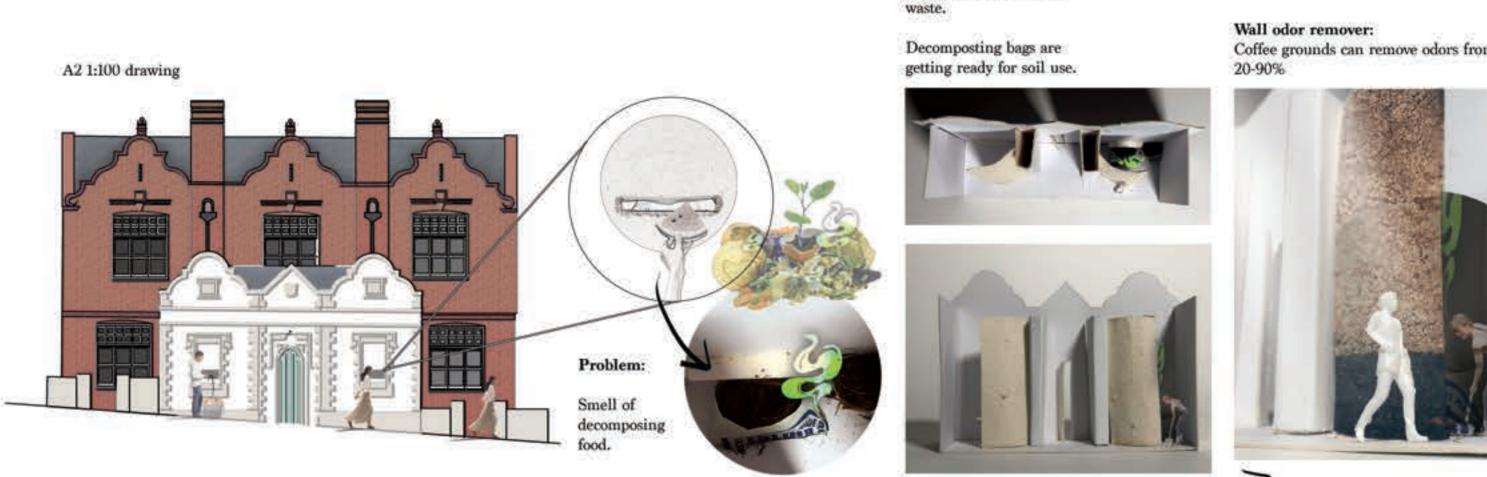
1:50 Section elevation



Incorporating a composting station

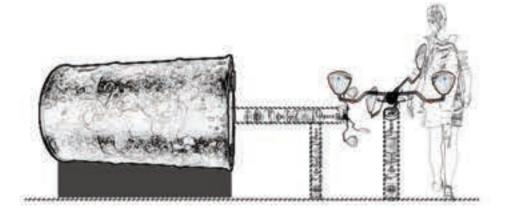
Creating a self-sufficient space for composting. Nutrient-rich soil will be used to grow food. Locals are encouraged to drop off their food scraps for composting,

Experimental design:



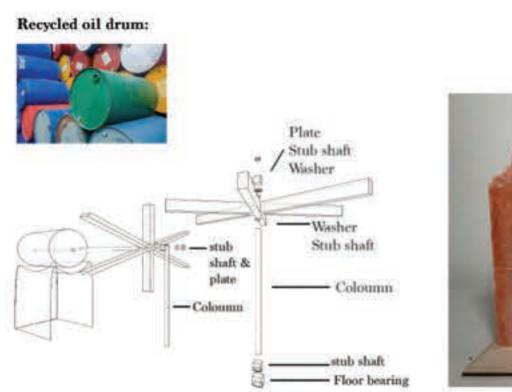
Collection of local food

Final design solution:



Using the waste of local cafes that don't compost their used coffee grounds.

500,000 tonnes of waste coffee grounds are produced every year in the UK & end up in landfill.



Lets reduce landfill:

50% of what we put in the bin can be compostible

What ends up in landfill? 21% scraps alone

15% paper/paper board

8% trimming

8% wood waste

Coffee grounds can remove odors from



Solution:

Using a divider to block the smell entering the centre space.

Using a rammed earth, coffee, non load bearing wall to reduce the smell.

Limitation:

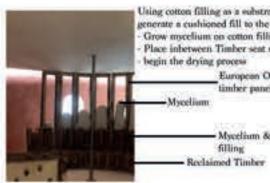
Coffee grounds can only absorb odours when their molecules are not saturated. Once saturated, it becomes ineffective.



Final model







Using cotton filling as a substrate to generate a cushioned fill to the seating. - Grow mycelium on cotton filling - Place inhetween Timber seat slots - begin the drying process European Oak timber panels - Mycelium & comon filling



