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COMPRESSION ARTIFACT

Experiment on Spatial Perception and Material Strategy



Basic Framework

Simulation space

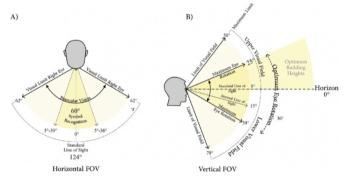
A 1:50 model of the space, including key elements such as cores, column, windows, etc.



Basic Framework

Movable observation point

Set the simulated position of the human eye





Reference for the human eye's field of vision

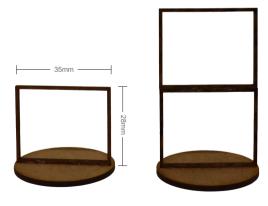
Horizontal field of vision: about 120°-180°.

 180° represents the complete peripheral field of vision, and 120° is the area of regular clear vision.

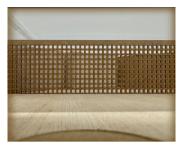
Vertical field of vision: about 60° upward and 70° downward, a total of about 130° . Focus field of vision (focus range): about 30° , usually corresponding to the front of the person.

Actual human eye field of vision (reference when standing) Standing height (eyes from the ground): about 1.5 meters. Horizontal range that can be clearly seen: $\text{Actual width} \approx 1.5 \text{ meters} \times 2 \times \tan(60^\circ) \approx 1.73 \text{ meters}.$

Vertical range that can be clearly seen: Actual height ≈ 1.5 meters $\times 2 \times \tan(65^\circ) \approx 1.38$ meters.























CONTEXT & RESEARCH

Before the Stitch: Understanding the Site and System



The Fast Fashion Graveyard A Crisis in the Atacama Desert

These discarded clothes take up to 200 years to fully decompose.



Annual Import Volume: 59,000 tons of second-hand and unsold clothing from around the world

The Environmental Cost

Key Issues with Textile Waste in the UK

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Water consumption (93 billion cubic meters)



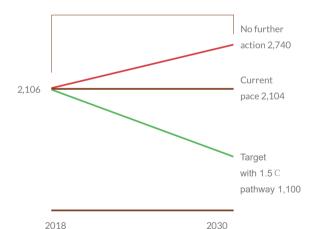
Clothing consumption growth (63% by 2030)



Discarded clothing (336k tonnes)

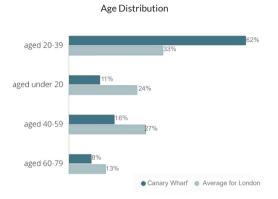


Greenhouse gas emissions (8-10%)





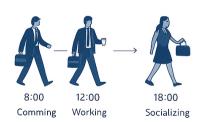
Crowd Analysis



Managerial and professional Intermediate occupations 11% Routine and manual 7% Hever worked, long-term unemployed 9% Full-time students 6%

Occupations

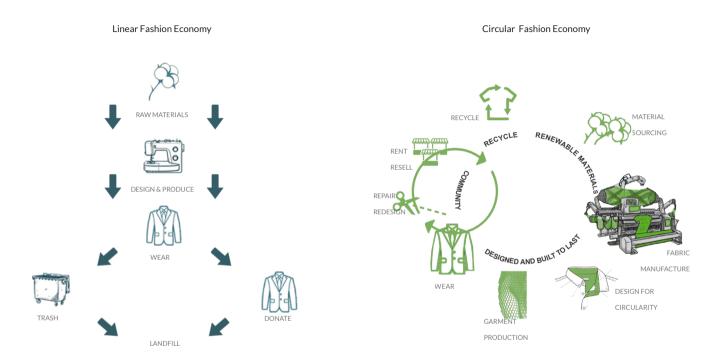
Daily Clothing Needs



Existing Context



From Waste to Renewal: Two Systems, Two Futures



The dominant model of the fashion industry follows a linear path—raw materials are transformed into garments, consumed, and ultimately discarded. This take-make-waste system results in massive environmental degradation. In contrast, a circular fashion economy envisions a regenerative cycle—where garments are designed to last, shared, reused, and eventually recycled.

CONCEPT

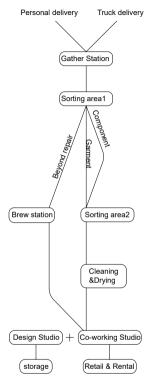


DESIGN STRATEGY

Spatializing the Acts of Sewing



The journey of garments



This diagram illustrates the spatial and operational flow of second-hand garments within the redesigned 15 Westferry Circus. From arrival—via personal or truck delivery—to sorting, cleaning, repairing, and reimagining, each level of the building supports a stage in the transformation of discarded clothing, culminating in their final sale.

COMMUNITY EXCHANGE HUB + GATHER STATION



The flea market and clothing collection area are visually connected, encouraging public awareness of reuse and material cycles through spatial transparency and shared engagement.







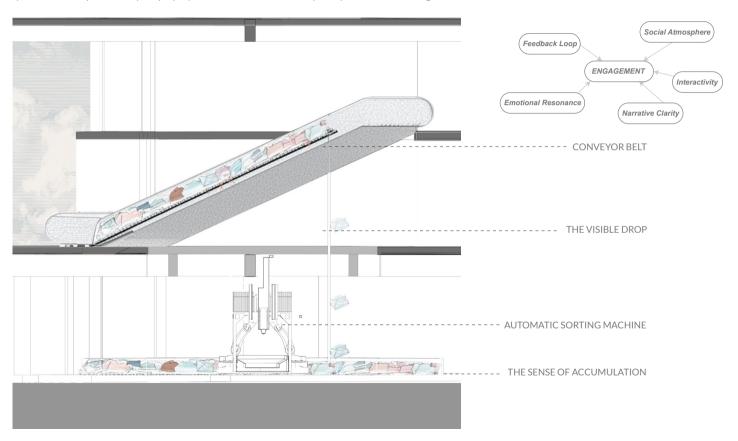
FITTING ROOM :Patchwork style fabric

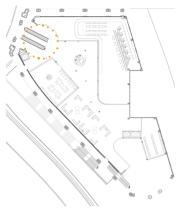


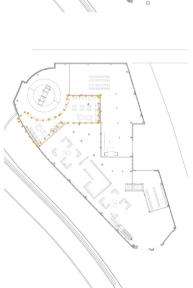


GATHER STATION (PERSONAL DELIVERY)

The gather station is located at the main entrance, transforming the donation activity into a shared public ritual. It increases collective participation by increasing the visibility of the donation process and prompts people to reflect on the value and quantity of discarded clothing.





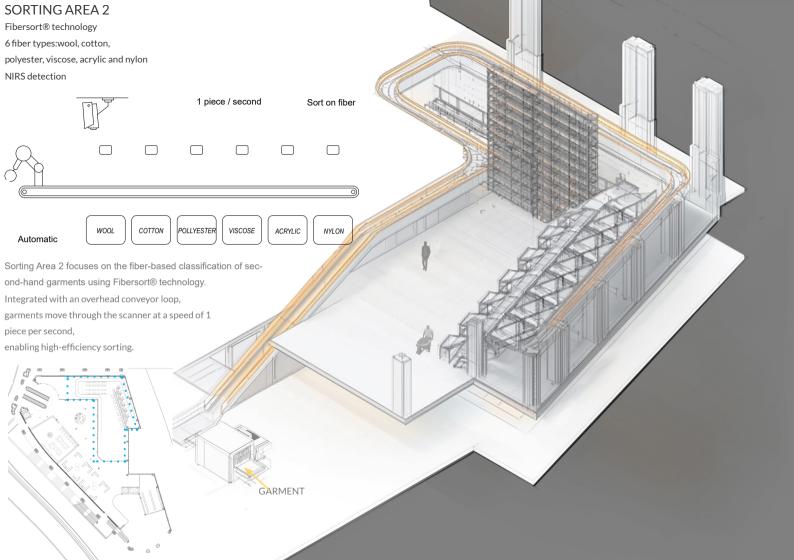


GATHER STATION (PERSONAL DELIVERY)

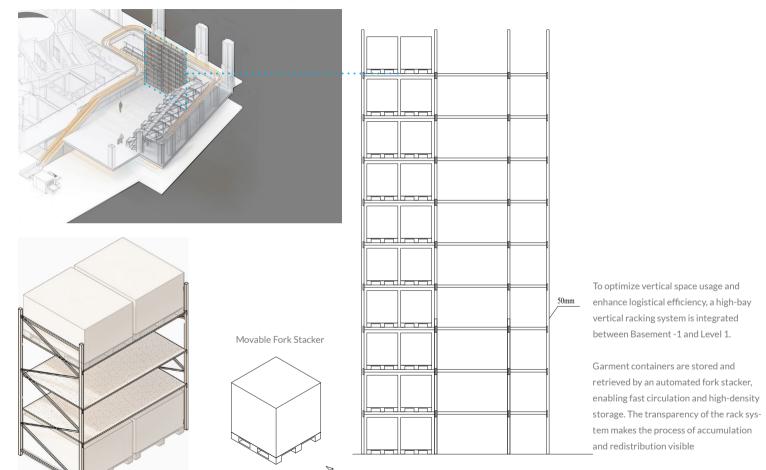


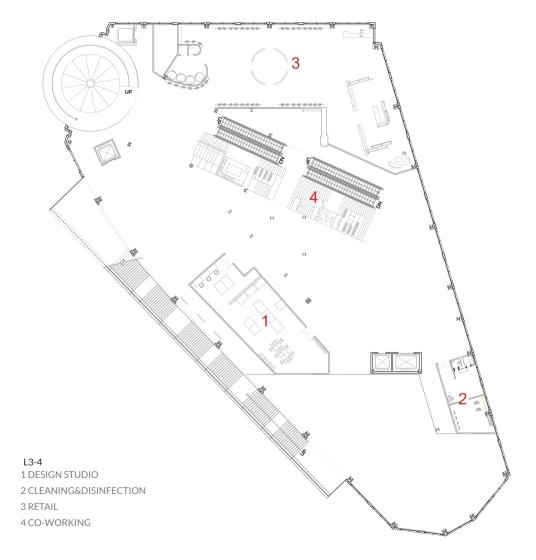
CAFE TO SEE THE SORTING



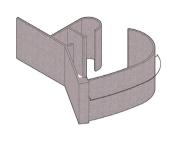


SORTING AREA2——Automated vertical storage system

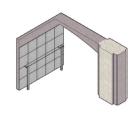


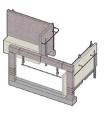


${\sf Retail\,Space-Reassembling\,Fragments,Reframing\,Value}$









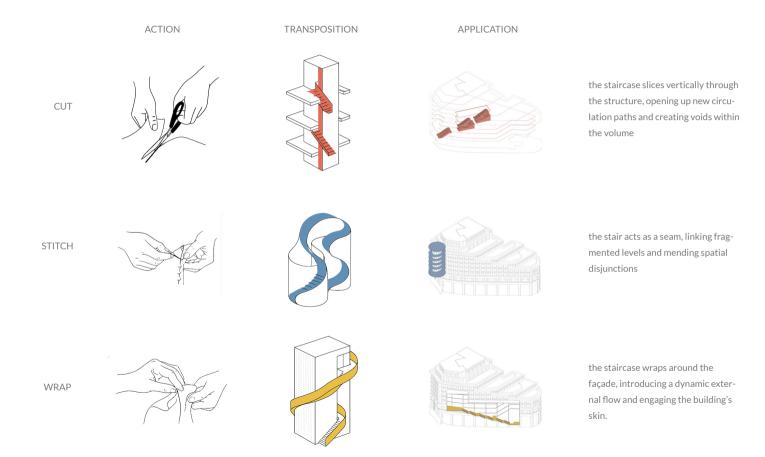




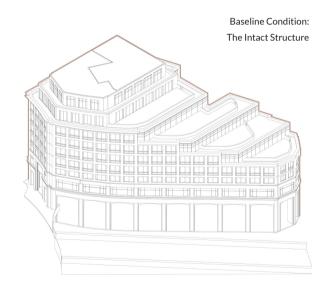


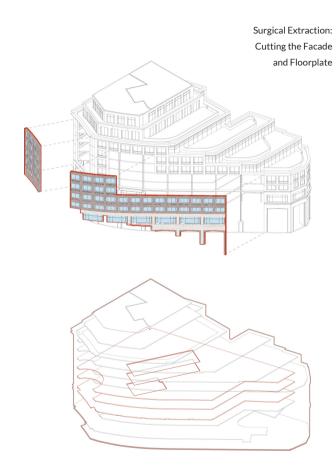
Threading The Building

Translating Sewing Actions into Spatial Intervention

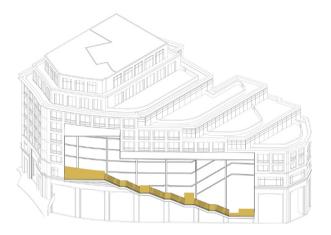


Architectural Surgery: Facade + Floor Cutting

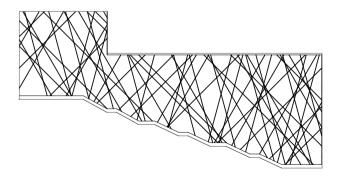




Spatial Wrapping: External Circulation Inserted



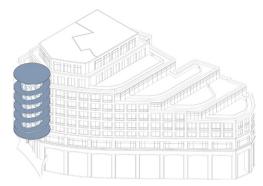
A Textile-Like Metal Skin





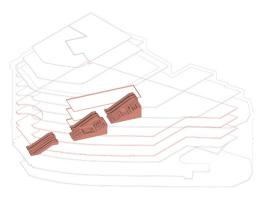
Structural Stitching: Vertical Connection Rewoven Stitch Stair and Central Garment Display Capsule

The STITCH staircase acts as a vertical seam within the building—linking fragmented levels through a continuous zigzag movement.





Spatial Incision: Vertical Access Unsealed



Inserted between Levels 1 and 3, this staircase cuts through existing slabs to act as both circulation and a functional seam. It separates the retail space (left) from the design studio (right), while offering shared platforms and seating areas for visual and spatial interaction.



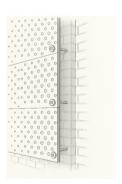
Sewn Skin

renovate the facade of 15 Westferry Circus by applying a layer of perforated metal panels from the 3rd to the top floor.

Layered Composition



3rd to 9th Floor (Cladded):
Apply a secondary skin composed of
patchwork-style perforated metal panels



Lower ground to 2nd Floor (Preserved): Retain the original stone facade to maintain the historical and pedestrian-scale continuity of the street.

Material Gradient

the bottom gradually dissolves into the original brickwork.

