

west EXTend

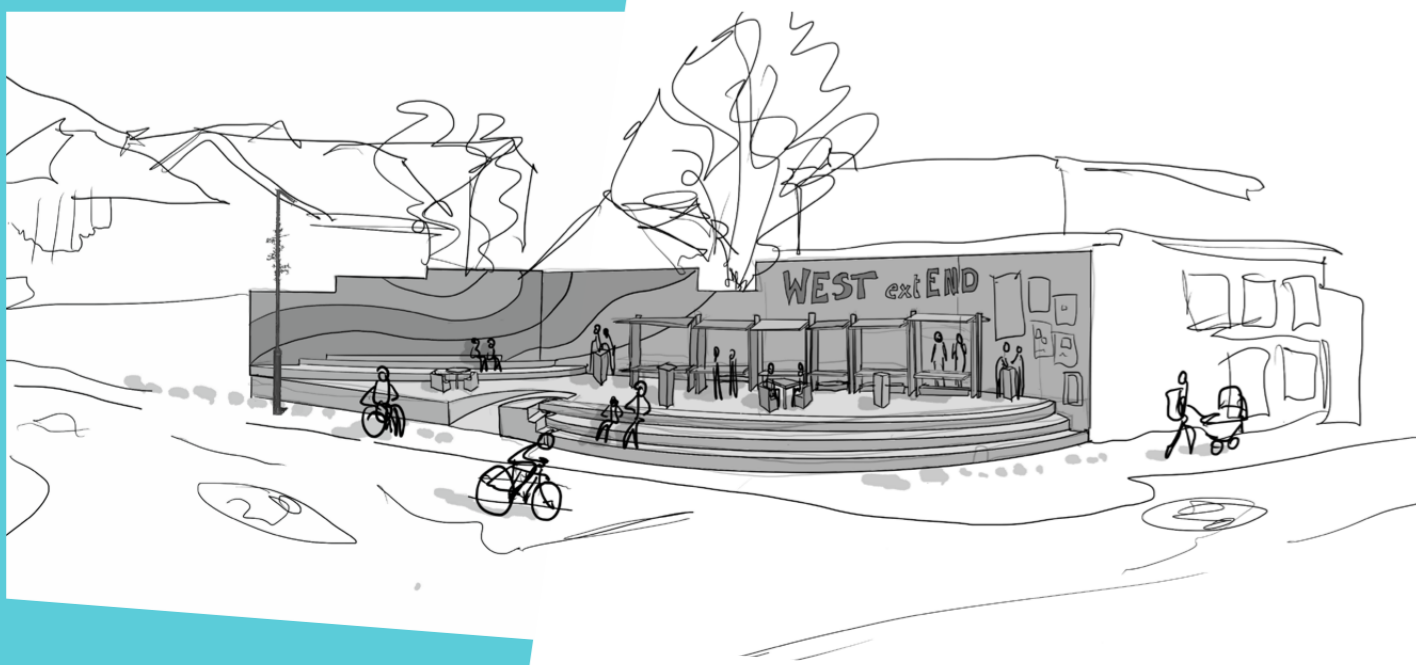
is a spatial design proposal for a neglected public space in Dundee's West End. Local independent businesses will use it as an extension of their space and offering. Transformable furniture/objects made from locally re-used materials (predominantly plastics) allow for adaptation of the site to hold markets, events, exhibitions and many more...

5. Collaboration & Interdisciplinary Practice

For this project, a combination of Interior/Spatial Design, Co-Design and Furniture Design created a versatile communal market/event space. The remodelled site on Perth Road, Dundee would be used by independent businesses from the area, as an extension of their shop/cafe. Bespoke Co-Design tools helped to understand the needs and wishes of the potential users of the space if it was ever to become a reality. The project was greatly inspired by the UNESCO 'Our Street' project which co-designed Dundee's Union Street.

location

The 197sqm large site is in a great location on Perth Road, Dundee's buzzing street with independent businesses. It is southfacing and flooded with light and sunshine all year round. The space is accessible from the south and west through adjoining sidewalks and closed off by walls and fences to the north and east. Being in private hands and neglected since decades, this place has been an unused potential for way too long.



inspiration

Assemble Studio, Cineroleum Dave Hakkens, Precious
Assemble Studio, Brutalist Playground Jane Atfield, RCP2

Logo/Branding; site, name and orientation

500 meter (0.3 mile) radius was a first attempt to narrow down the self-written brief for this project. All objects/ furniture for the public space should be fabricated within a 500 meter radius of the site, using found materials from within the same

SITE HOME
STUDIO
CAFES / POWERS
FRY UP / BOWOR
POTENTIAL USERS
STREET

• BANK ARTIC • STUDIO
• WIST
• SOUL SOUL
• OLE FLECK
• MAGDALEN GREEN
• PERTH RD
• SHAK
• PACHARA
• TARTAN
• LITTLE GREEN LARDER

plastic:facts

Littering puts 1,000 tonnes of plastic into Scottish seas each year. This is the equivalent of 9 adult blue whales.

Single use plastic films make up 85,000 tonnes of the general waste that is incinerated or put into landfill in Scotland each year.

In the past 6 years the amount of plastic waste recycled in Scotland has only increased by 8.3%.

People in Scotland use 694 million plastic bottles every year.

On average only 37% of plastics are correctly recycled in Scotland.

V&A Dundee, Plastic: Remaking Our World

previous work



pattern



co-design

Engaging with parts of the community was vital. As this project was about them it was necessary to get a first-hand view of the proposed concept. Offering an engaging tool by which the proposed users of the space, local independent businesses, could interact with, helped carry across the proposal and for them to visualise what it would mean to them in the context of the site. To gain more in-depth feedback and ideas, a 5-question WHO, WHAT, WHEN, WHERE and HOW questionnaire was asked to be filled in. This resulted in a clear understanding, that the space needed to be flexible in order to offer many different uses for different users. It meant that the furniture couldn't be static and needed to fulfil multiple tasks.

<p>HOW would you/your business use the space? We'd love to use the space for promotional pop-ups, regular or extended food/drink services, seating, tables, covers and/or any additional things you require</p> <p>WHAT services, seating, tables, covers and/or any additional things would you require? all of the above// PLUS draws for waste water and walkable access to drinking water</p> <p>WHEN would you/your business use the space? (i.e. special events, regularly, time of day...) We'd use it weekly in the summer if we could!</p> <p>WHERE on the site would your preferred zone be? Back corner</p> <p>WHO would you like to attract? people from the centre of town / Perth Rd, people who'd likely visit the market this corner shopping</p>	<p>THE LITTLE GREEN LARDER</p> <p>HOW would you/your business use the space? Pop up outdoor cafe day</p> <p>WHAT services, seating, tables, covers and/or any additional things would you require? Power for drinks machine, service table, Subs, tables, covered areas</p> <p>WHEN would you/your business use the space? (i.e. special events, regularly, time of day...) Special events, pop-ups over spring/summer</p> <p>WHERE on the site would your preferred zone be? No opinion</p> <p>WHO would you like to attract? New customers, people in the community</p> <p>additional..... Such a great idea! There are a few unused spaces like this that need some TLC! Would be great to see it used as somewhere for our community to connect.</p>
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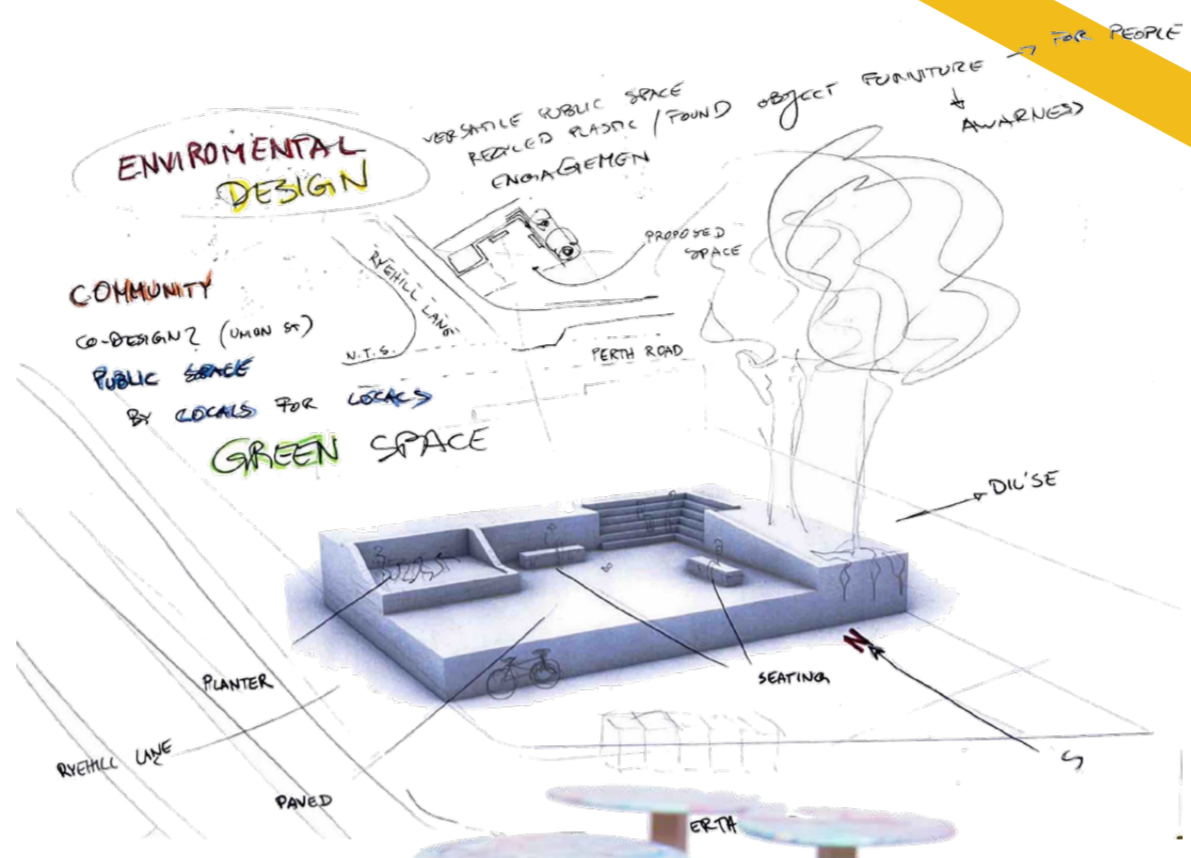
Fraser in EH9 espresso



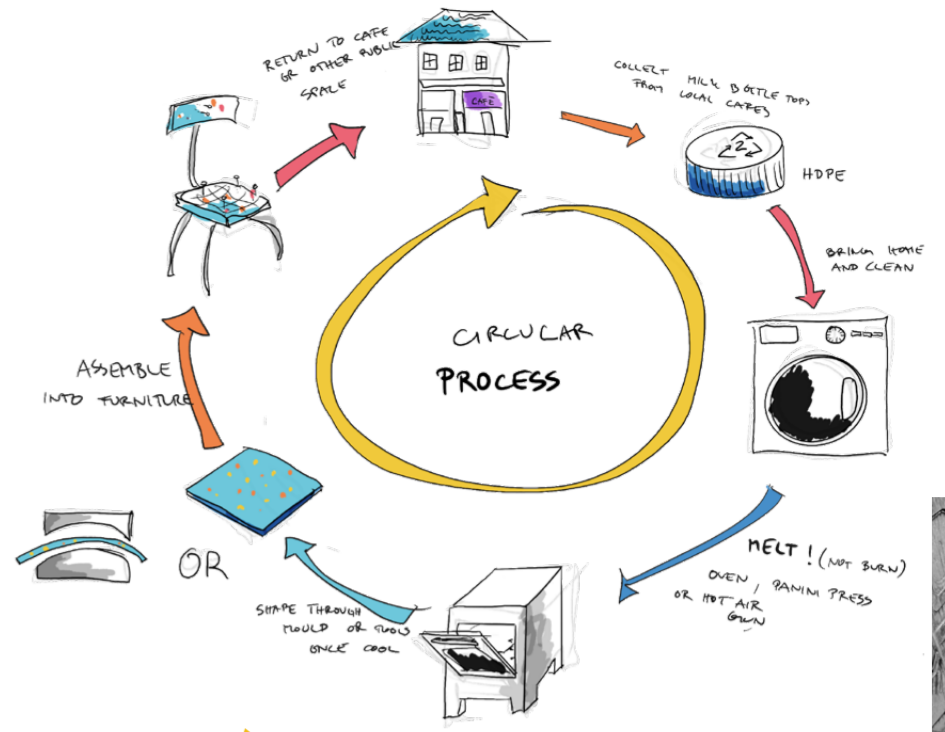
Jillian in The Little Green Larder



Sharyn in front of Socksouk



Scale 1:50 Model
Interactive scale model of the site, allowing the managers to think about seating, tables, covers and services.



process

Plastic recycling techniques: collecting, sorting, cleaning, (opt. shredding), melting, shaping through moulding and/or machines/tools after a CNC routing machine shaped one of the prototype seats, through digital input.

Analogue sketching, quick and freehand, drove the design process. This allowed for potential spatial outcomes to be explored efficiently.

Digital 3D modelling and CAD drawings were used simultaneously to gain more experience, practice and visualise to higher detail.

Sketch- and final model-making, physically visualised concepts and final design outcome more tangible.



IKEA Franklin bar stool



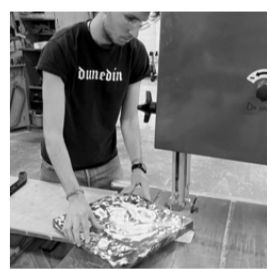
Plastic shredding



Melting bottle tops



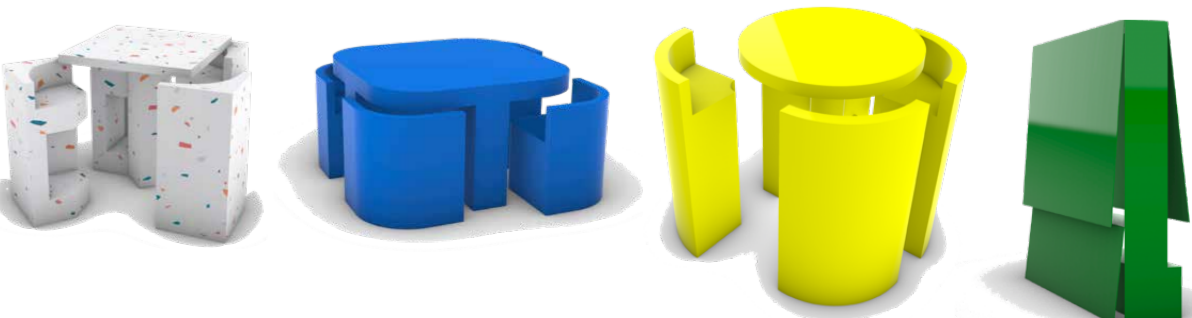
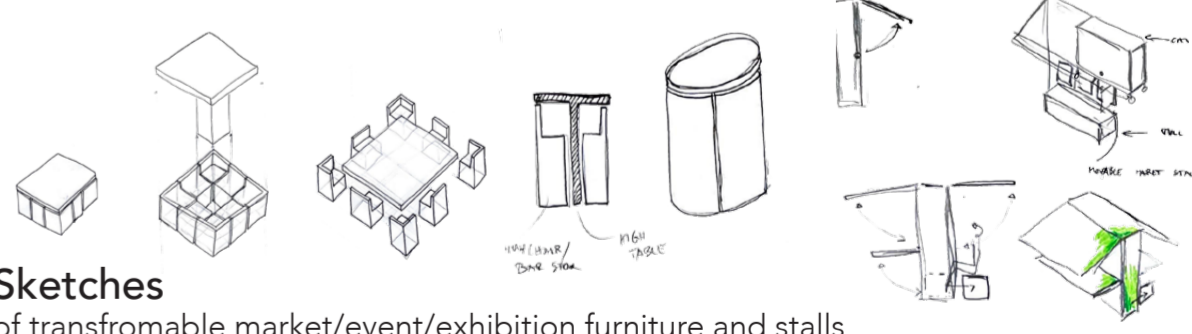
Compressing seat



Cutting seat

Sketch Models

using melted milk bottle tops and workshop offcuts



3D Models

in Rhino3D were used along the way to visualise and experiment digitally.

5 questions

- HOW would you/your business use the space?
- WHAT service, seating, tables, covers and/or any additional things would you require?
- WHEN would you/your business use the space? (i.e. special events, regularly, time of day, ...)
- WHERE on the site would your preferred zone be?
- WHO would you like to attract?

outcome 1

Reused plastic and found object prototypes that depend understanding for the materiality and versatility of plastic.



Pavement-Stool

The seat was made by using a CNC machine to cut the organic shape created in a digital 3D model out of a square block of recycled plastic. The excess material can be remolten again. The base was found on a on a side walk on Perth Road and was probably once part of a chair.



Bin-Stool

The frame of this stool was found behind a bin on Perth Road. In good shape but with pieces missing, I redesigned and made all three pieces using plastic moulding techniques.

outcome 2

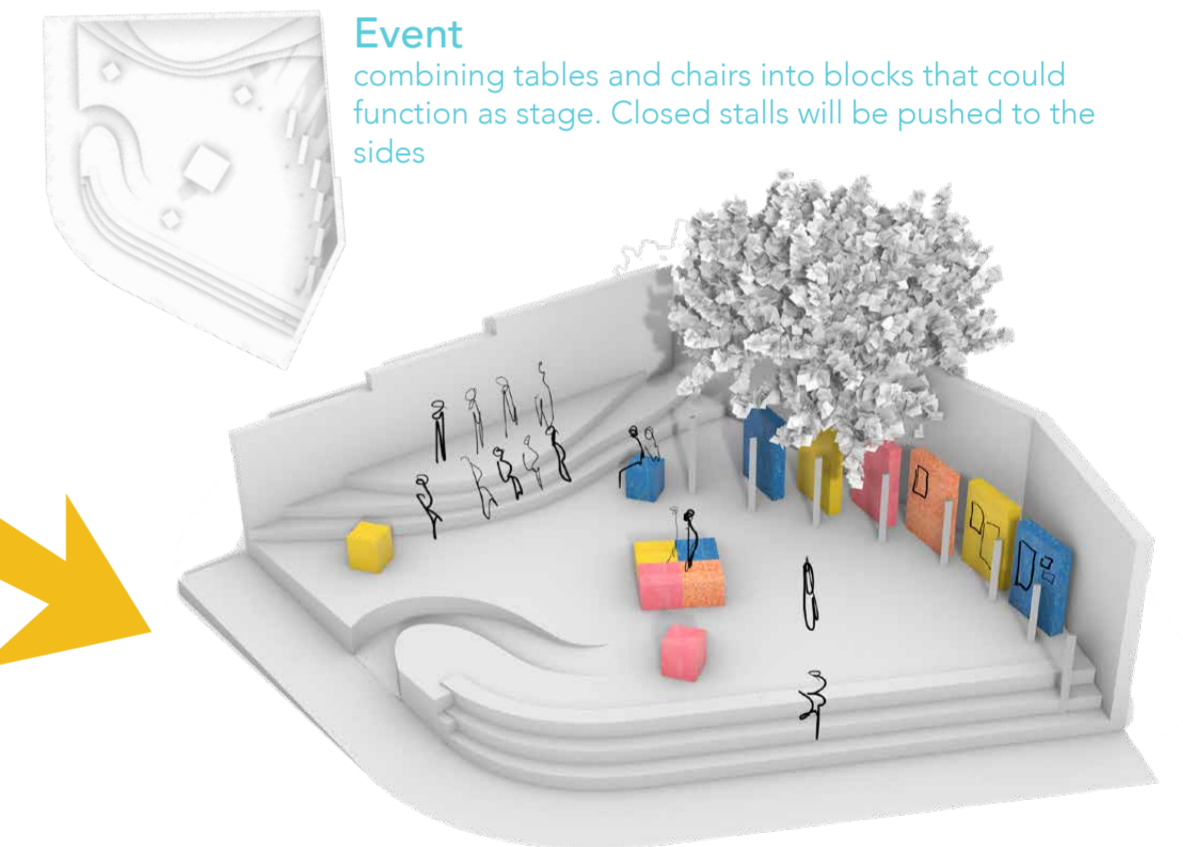
The final spatial design outcome provides a flexible and transformable space for the local businesses to use as an extension of premises and offering. Visual and physical outcomes included 3D renders, sketches, a scale model, a banner and technical drawings. Perspectives and Plans below showing three possible uses of west EXTend; market, exhibition and event.



The Final Model is at Scale 1:20 showing a potential market setup. The blue furniture models are made from predominantly blue milk bottle tops. Other materials include MDF and foam.



Market
separating tables and chairs for visitors and opening stalls for vendors



Event
combining tables and chairs into blocks that could function as stage. Closed stalls will be pushed to the sides



Exhibition
using the closed stalls as exhibition surfaces, pushing tables and chairs to the sides



The Hero Image is a digital sketch over a black & white photograph of the existing site