# PORTFOLIO YU-CHENG YANG

J U N E 2 0 2 1

# CONTENT

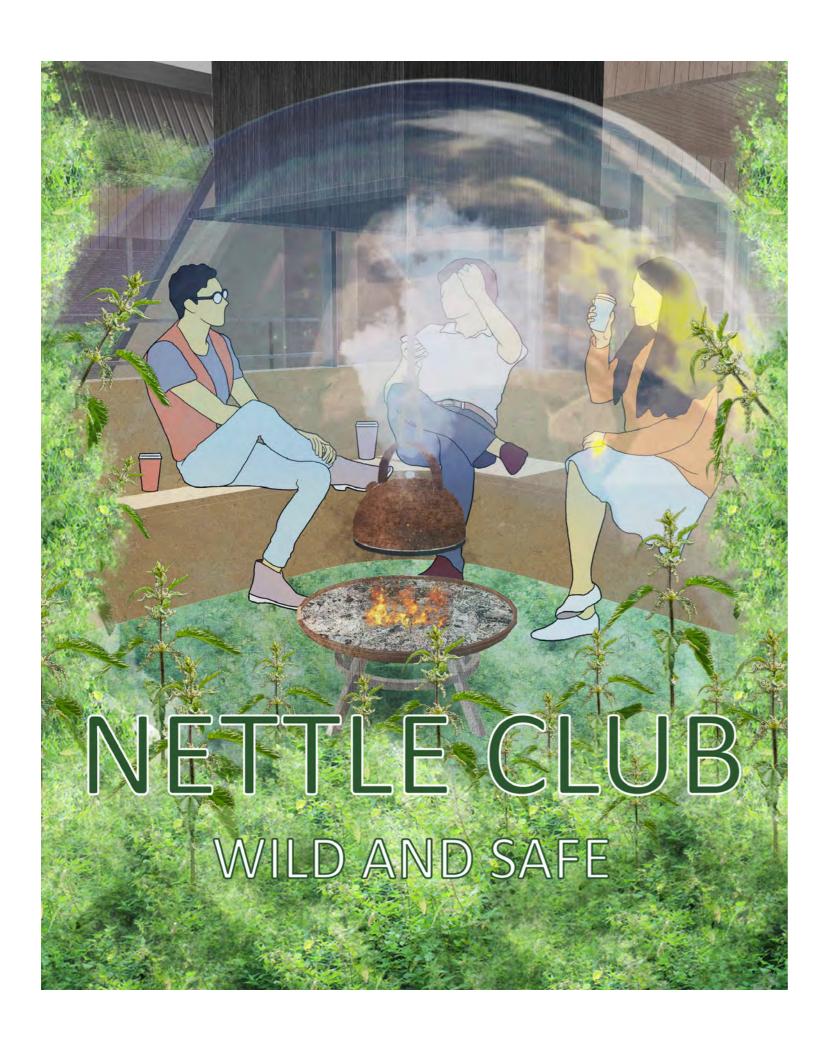
THREE MAIN CORE MESSAGES

RESEARCH & CONCEPT - "REAL FICTION"

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# RESEARCH & CONCEPT - "REAL FICTION"

STATEMENT
SITE CONTEXT + LOCAL AND GLOBAL INTELLIGENCE
NARRATIVE STORYBOARD
LOCATION PLAN + SURVEY

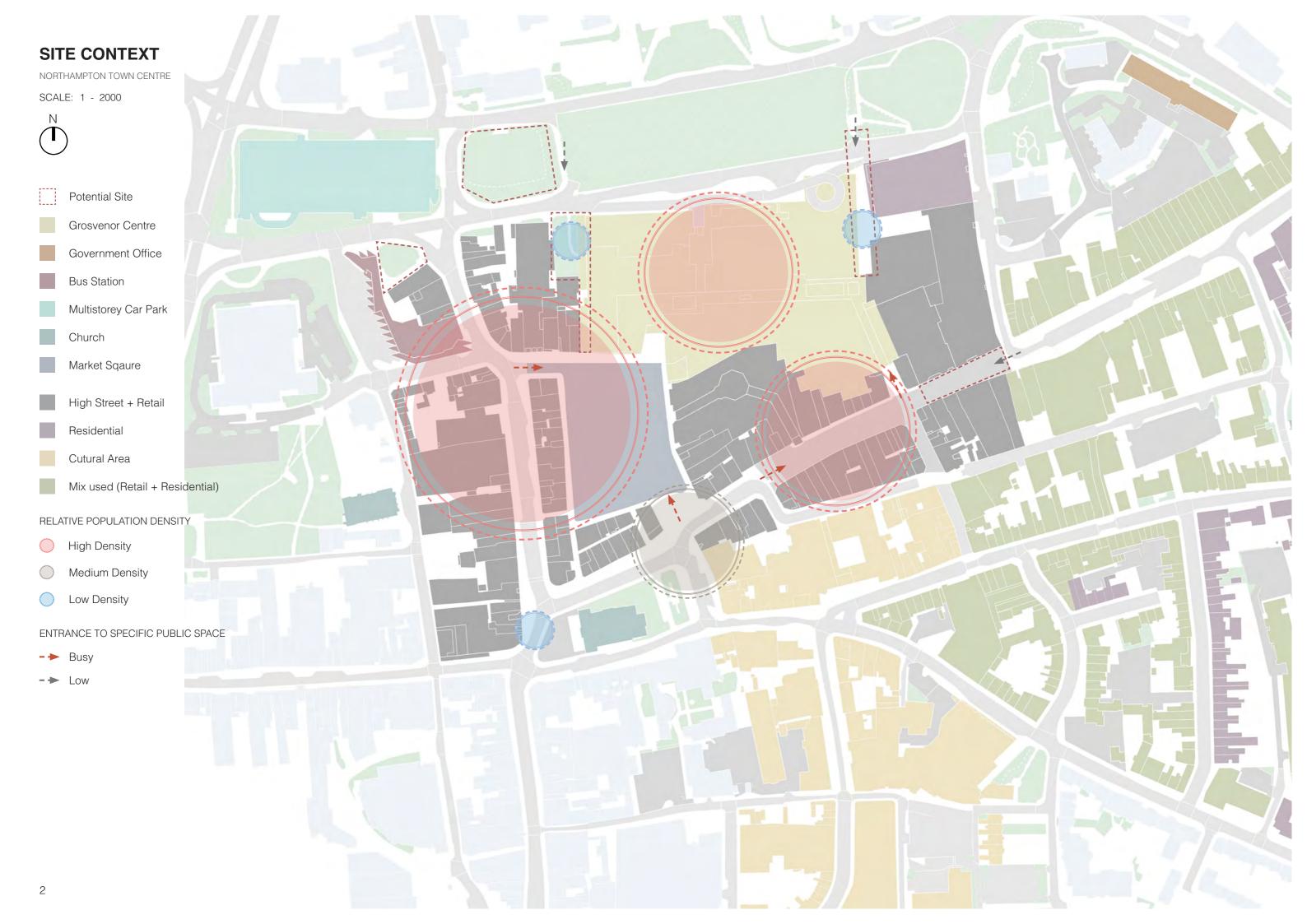


# **NETTLE-CLUB**

WILD AND SAFE

Can the emporium way in Northampton be reimagined as a participatory alternative to exclusive urban developments?

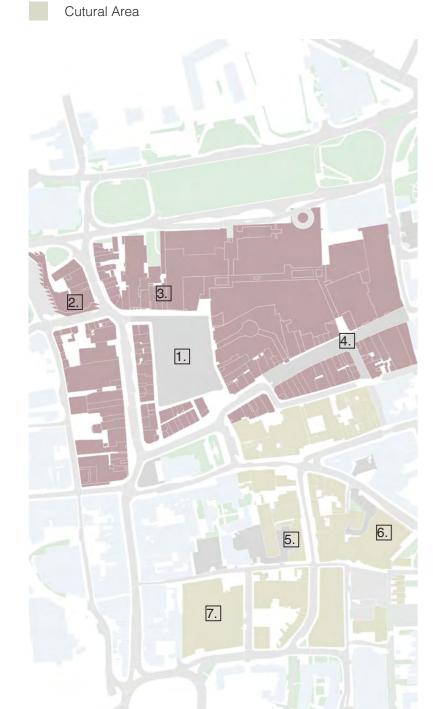
Inspired by self-organised community groups in Northampton who prior to Covid were transforming public spaces around the city centre into community-focused events, a new speculative community centre emerges in Emporium way, providing spaces for growing, manufacturing and consuming nettle based products. A series of tea pavilions encourage residents to meet, discuss and brainstorm ideas for community events, whilst a surrounding wild landscape of stinging nettles provides the opportunity for all year round community project funding.



# PHOTOGRAPHIC SITE SURVEY

NORTHAMPTON TOWN CENTRE





Town Centre

# 1. Market Square







2. Bus Station



3. Emporium Way









Cultural Area

5. Market Square





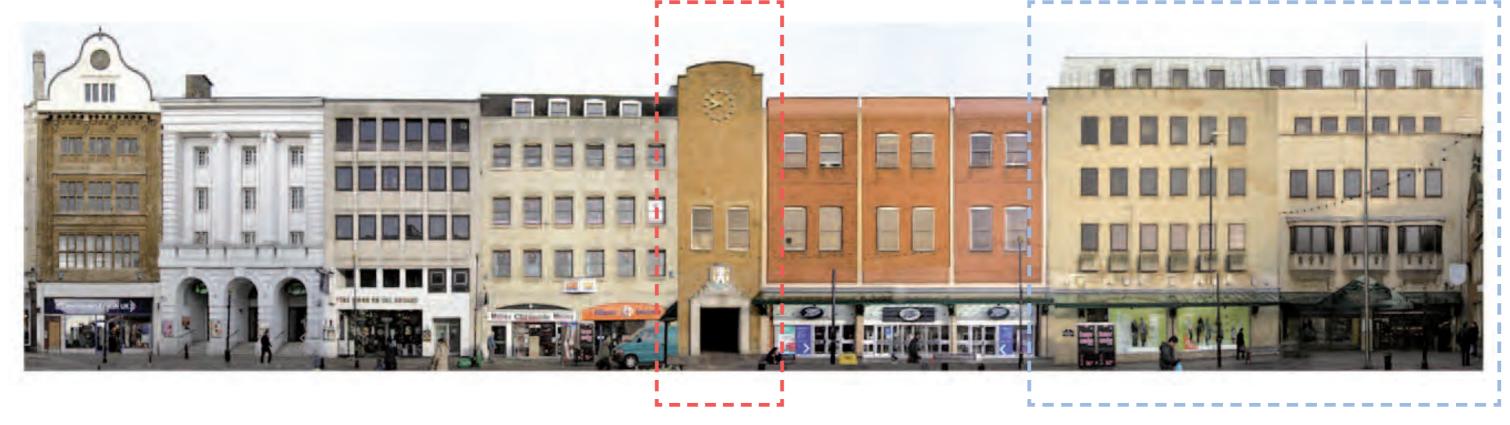


7. Angel Sqaure



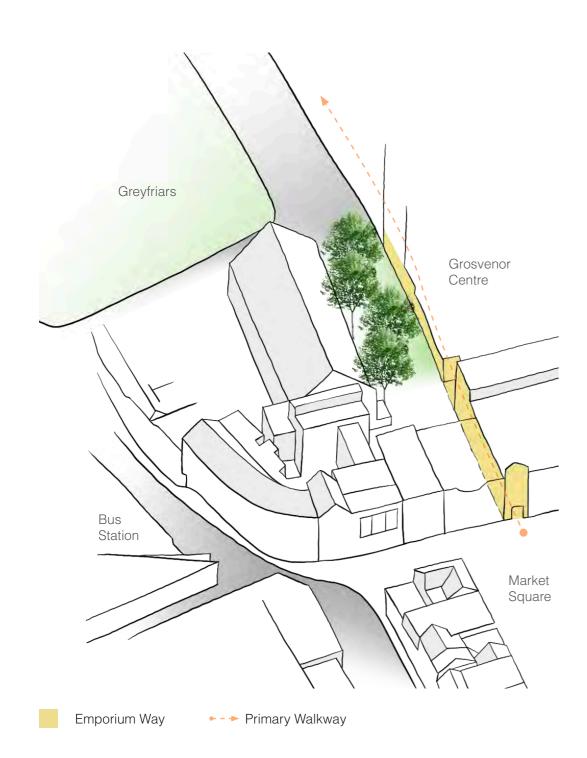
# PHOTOGRAPHIC SITE SURVEY

ELEVATION AND CONTEXT OF EMPORIUM WAY



Emporium Way Grosvenor Centre

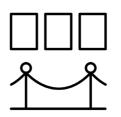
PRO'S AND CON'S ABOUT THE SITE



Advantage about the Emporium Way space:



Good Geographical Locaiton



Urban Art Gallery



Gathering People



Reaches Communities



Share Experiences

Disadvantage about the Emporium Way space:



Lack of Green Area



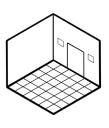
Events Funded by the Local Government



Temporary Events



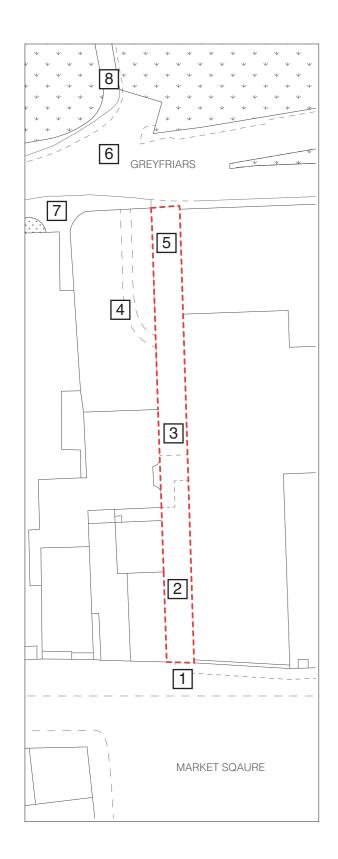
Illegal Activities



Miss Appropriately use Space

PHOTOGRAPHIC SITE SURVEY





























RECENT HISTORY ACTIVITES ON SITE

# FAMfest Music and Art Festival

# Before

















"We wanted to celebrate Northampton and bring people into the town centre again,... it's a cool space, it doesnt get used so much since the bus station went. We've have music, DJs, African drummers. We wanted it to represent the community."

(FAMfest: discover your community the Emporium Way, 2019)

# People's reaction toward the site and festival





Would love to have DJ or something like that during the event. Thanks to all who organised, performed, created, cooked and served.



### Vincent:

There was music, poetry, food, drinks, families and friends. All the things I saw is beauty.



What a great atmosphere!!







# Having a great day with fantastic traders

and customers.





What a great event, great atmosphere, great food, great music. It has to happen again!!





## 18 years old woman:

I think the things what they have done over there is really amazing. It used to be just bricks and dull, but now people have things look at. I have a brother, when he walks down towards here he is amazed! But, I still think more should be done.

# **DESIGN PRECEDENTS**

SECONDARY RESEARCH









# PASSAGE 56 / PARIS

Atelier d'Architecture Autogéreé

"...a 'stealth architecture' could also exist: an architecture which would deal with architecture-related activities, rather than architecture-specific ones, which would consider architecture in terms of its specific means (tools, competences, processes), rather than its specific ends (constructions and buildings)."

(Re-public: Reimagining Democracy, 2007)

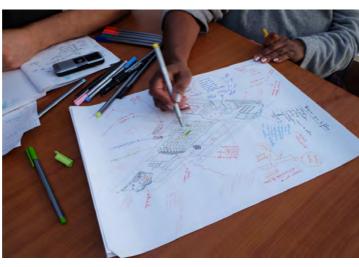
# **DESIGN PRECEDENTS**

SECONDARY RESEARCH









# THE AGROCITÉ PROJECT / PARIS

Atelier d'Architecture Autogéreé

"Spatial design processes contribute to expressing ecological cycles in tangible ways and help facilitate citizens' experiences of making and doing. The democratic governance of "commons" is as such associated with concrete hands-on actions whose consequences are visible and measurable."

(Harvard Design Magazine: R-Urban: Resilient Agencies, Short Circuits, and Civic Practices in Metropolitan Suburbs, 2014)

# **DESIGN PRECEDENTS**

SECONDARY RESEARCH









# PLACE AU CHANGEMENT PUBLIC PLAZA / SAINT-ETIENNE

Collectif Etc

"...while they were working together to bring about this change by means of their own efforts, neighbours and strangers created and strengthened social ties."

(Bordas, 2018)

# **NARRATIVE STORYBOARD**

PUBLIC SPACE ENGAGEMENT





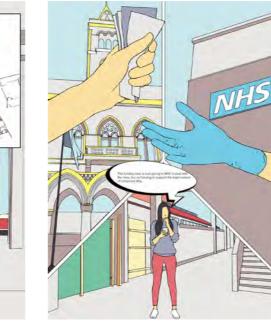


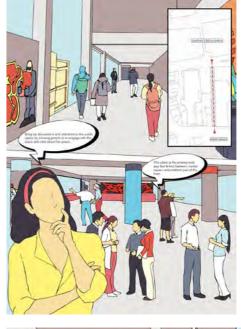






















# PEOPLE'S ENGAGEMENT IN PUBLIC SPACE

LOCAL GOVERNMENTS APPLY STREET ART TO BRING VIBRANCY TO PUBLIC SPACES BY COOPERATING WITH LOCAL STREET ARTISTS

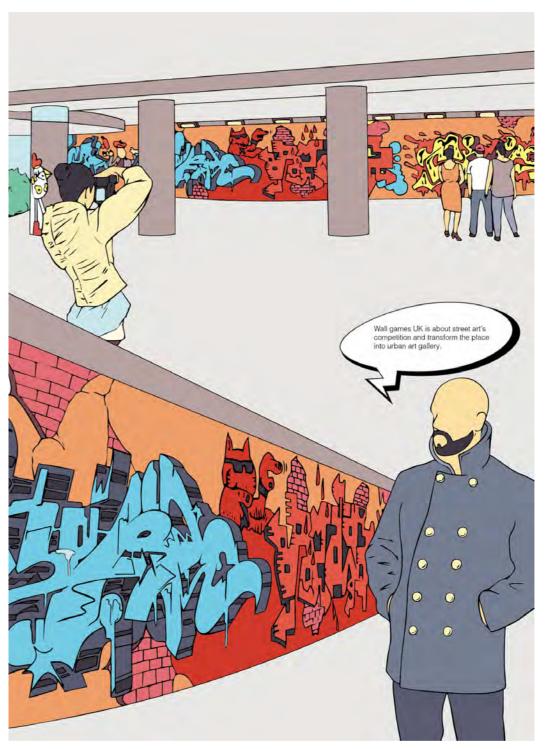




# THE SITE BECOME AN URBAN ART GALLERY AND PEOPLE'S GIVING POSITIVE REVIEW

LOCAL GOVERNMENTS COOPERATE WITH COMMUNITIES AND ARTISTS SETTING UP ACTIVITIES TO REACH COMMUNITIES IN THE TOWN





# PUBLIC SPACE MISUSED AFTER COMMUNITY EVETS

ANTI-SOCIAL ACTIVITIES AND LIMITED ART TREATMENT ON SITE





# CENTRAL GOVERNMENT SUPPORTS THE NHS, BUT OFFERS FAR LESS FUNDING FOR SCHEMES LIKE ALTERING OR BEAUTIFYING THE EMPORIUM WAY

THE GOVERNMENTS SUPPORT NHS BUT IS NOT LIKELY TO SUPPORT THE ARTISTIC DEVELOPMENT OF THE SITE SUCH AS THE EMPORIUM WAY AND SUGGESTING POOR CHOICE FOR PLANNING ANOTHER MARKET IN THE TOWN CENTRE





# THIS COULD BE DONE BY TAKING BOTH EXAMPLES AS SHOWN ABOVE OF USING ART AND LOCAL VOLUNTEERING TO ACTIVATE THE PUBLIC SPACE

GLOBAL EXAMPLES SHOW HOW PEOPLE OR COMMUNITIES CAN CREATE VIBRANT PUBLIC SPACES THROUGH STREET ART AND VOLUNTEERING.











# **CO-WORKING PUBLIC SPACE WITH AN ALLOTMENT**

CREATING SPACES FOR PEOPLE TO SHARE EXPERIENCES AND SKILLS, AND USING THE ALLOTMENT AS TOOL TO "GREEN" THE SPACE AND RESOLVING FUNDING ISSUE



LOCATION PLAN

SCALE: 1 - 500



Site

Green Area

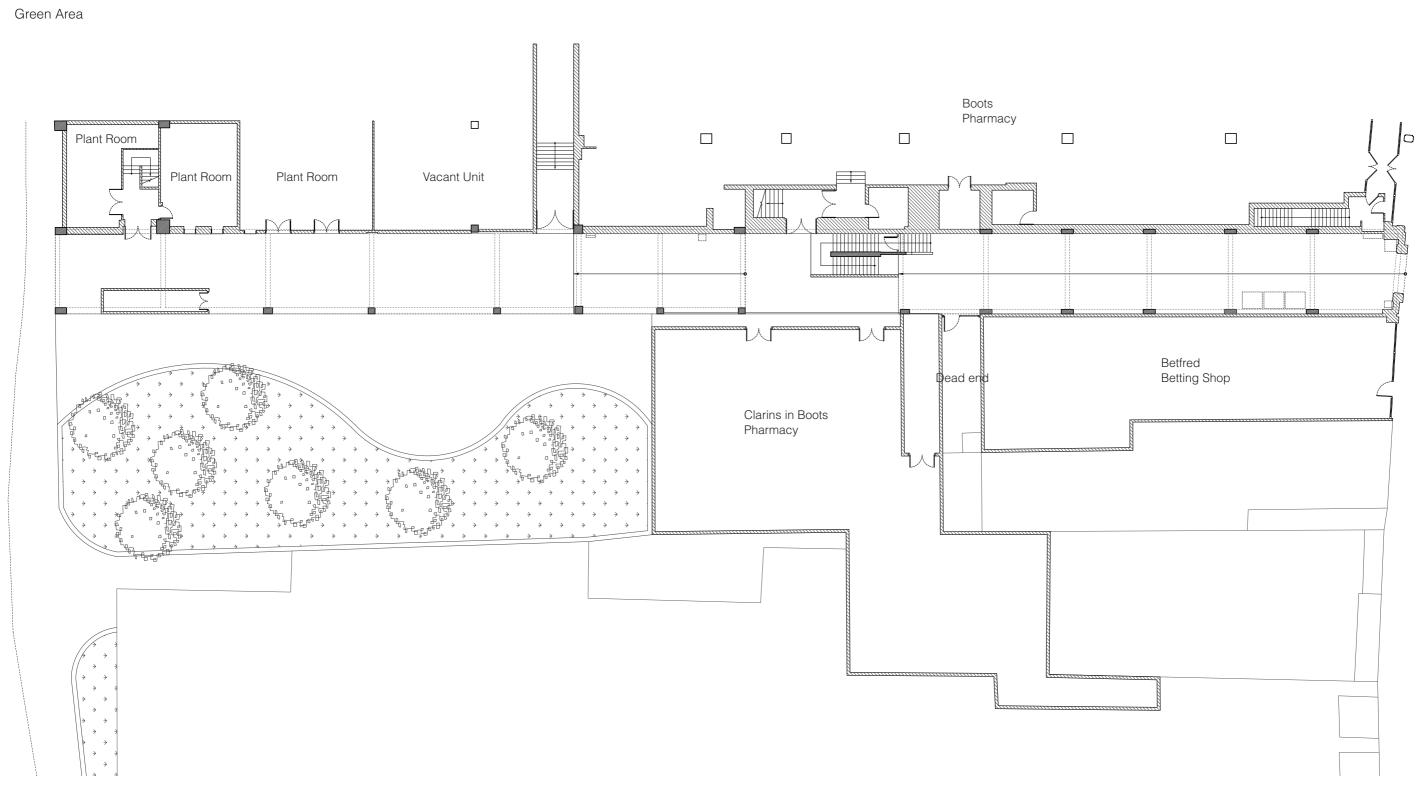


EXISTING PLAN

SCALE: 1 - 250







EXISTING ELEVATION

SCALE: 1 - 100

- 1. Emporium Way
- 2. Boots Pharmacy
- 3. Betfred Betting Shop



EXISTING LONG SECTION

SCALE: 1 - 250

1. Boots Stock Room

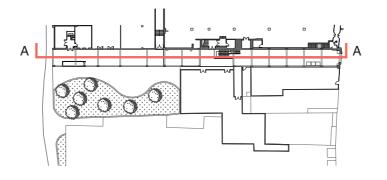
5. Car Park

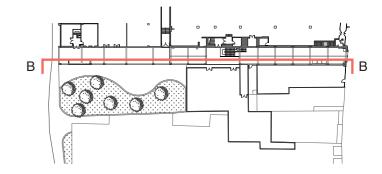
2. Boots Staff Canteen

6. Green Area

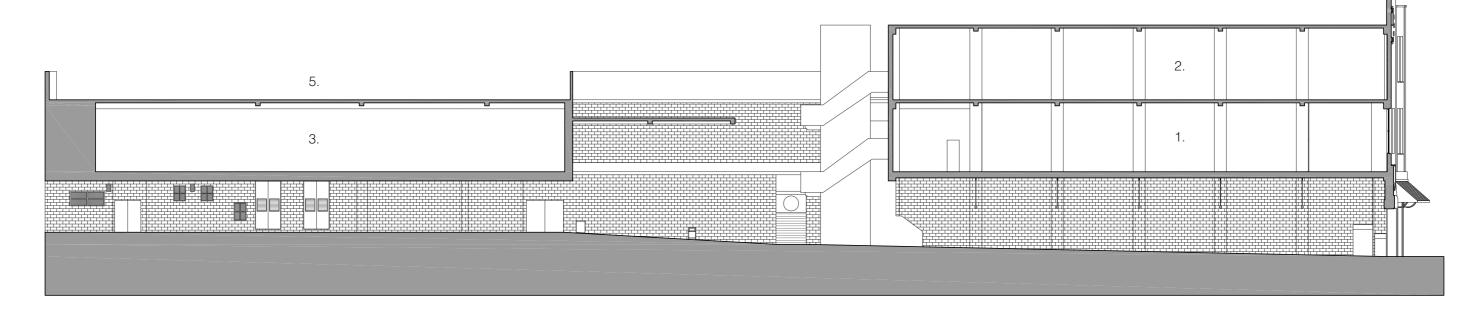
3. Bakery

4. Betfred Betting Shop

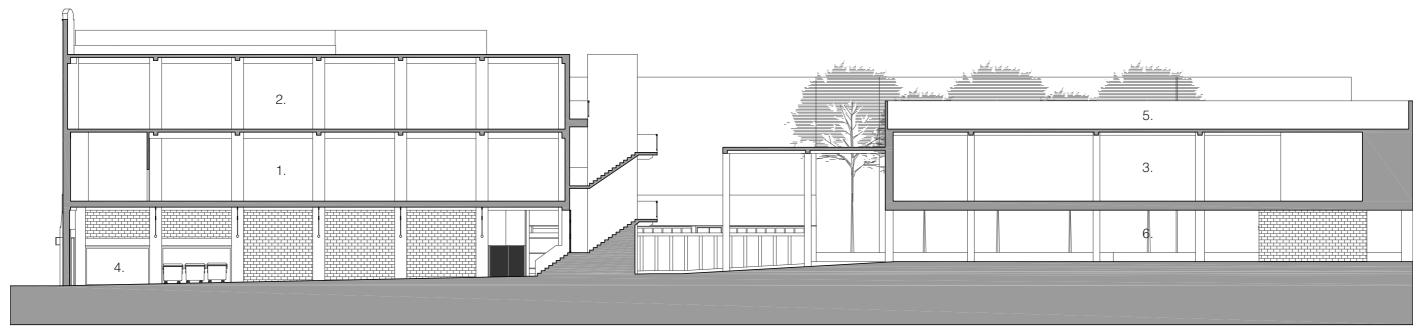




# SECTION A



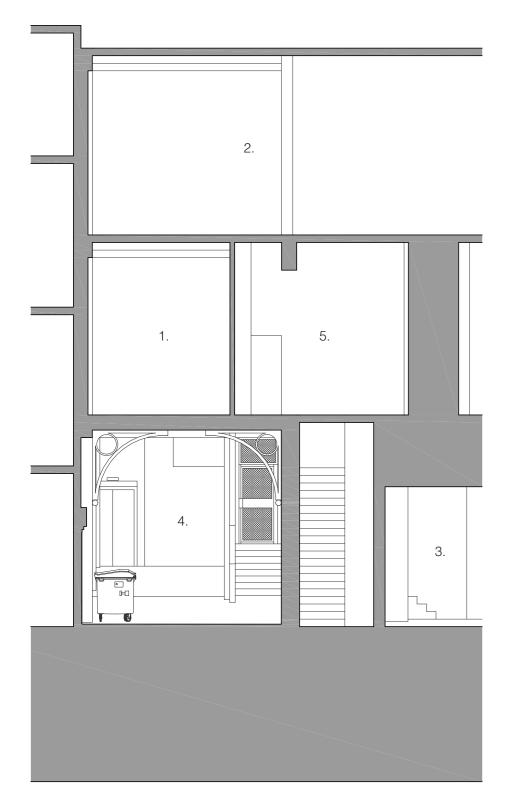
# SECTION B

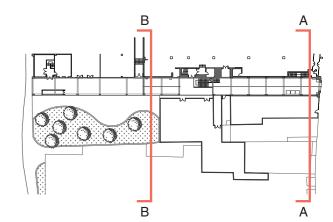


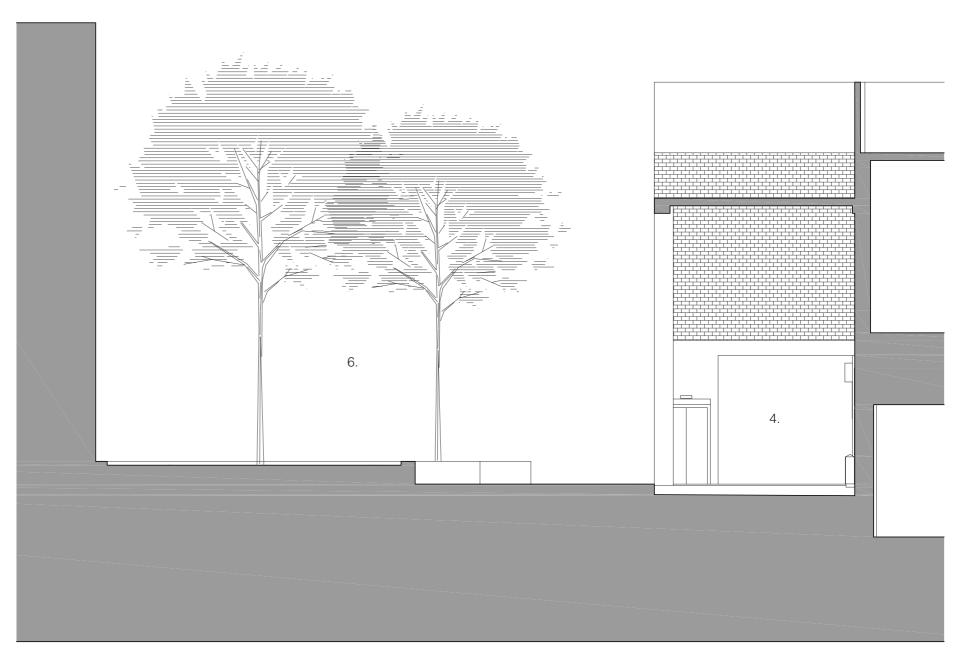
EXISTING CROSS SECTION

SCALE: 1 - 100

- 1. Boots Stock Room
- 5. Trainning Room
- 2. Boots Staff Canteen
- 6. Green Area
- 3. Boots Pharmacy
- 4. Emporium Way





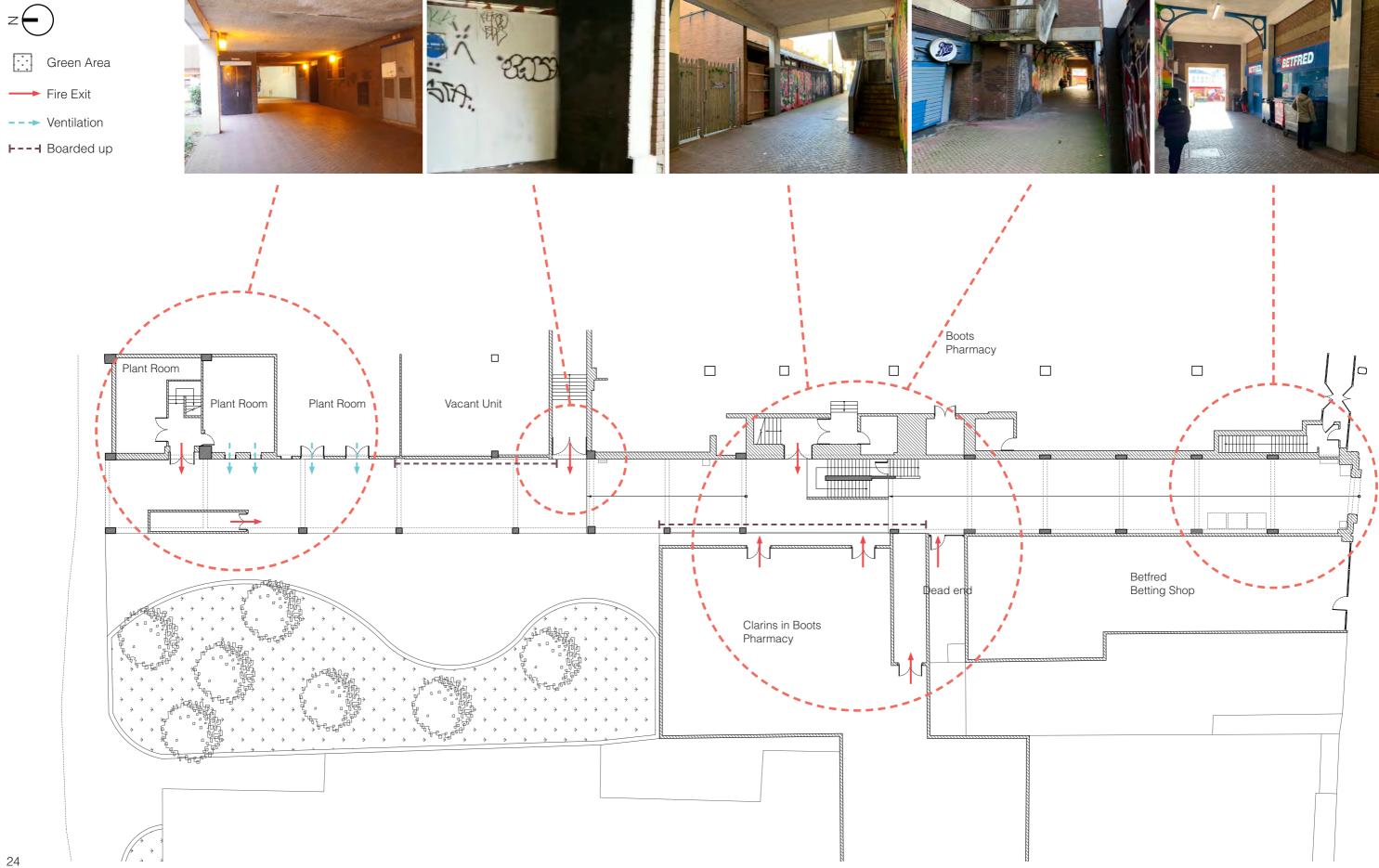


SECTION A SECTION B

# SITE CIRCULATION

EXPLORING SHOPS AND SPACES' ENTRANCES CONNECTING TO THE EMPORIUM WAY

SCALE: 1 - 250



# DESIGN DEVELOPMENT - BEYOND TRADIONAL DISCIPLINARY BOUNDARIES" CONCEPT + PROGRAM STUDIES SCHEMATIC DEVELOPMENT PROFILE DRAWINGS + AXONOMETRIC DRAWING USER EXPERIENCE STORYBOARD POSTER + MATERIAL COMPOSITION

# **CONCEPT COLLAGE**

SKILLS COLLECTION, PERMANENT EVENTS AND ALLOTMENT



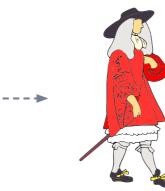
# **BRIEF HISTORY OF NORTHAMPTON**

A RELATED HISTORY OF NETTLES

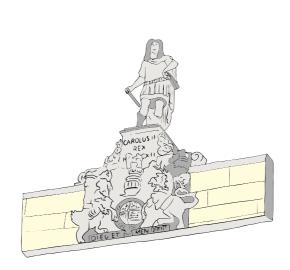
Nettle Related Event (Oak Apple Day / Oak and Nettle Day)

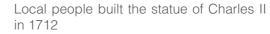


1675 - The Great Fire in Northampton



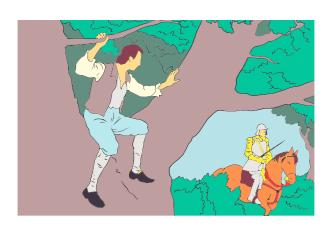
Charles II donated 1,000 tons of timber from Royal Forest to help Northampton rebuild the town







The statue located at the All Saints' Church in the crntre of Northampton



The battle of Worcester, 1651 Charles II sought refuge in Oak tree forest to get away from the enemies



People cover Oak spring on Charles II Statue to celebrate both events.



Children challenge each other by showing each other oak springs with them and for those who dont have they will be whipped by nettle

# **STINGING NETTLE**

RELATED PLANT IN NORTHAMPTON



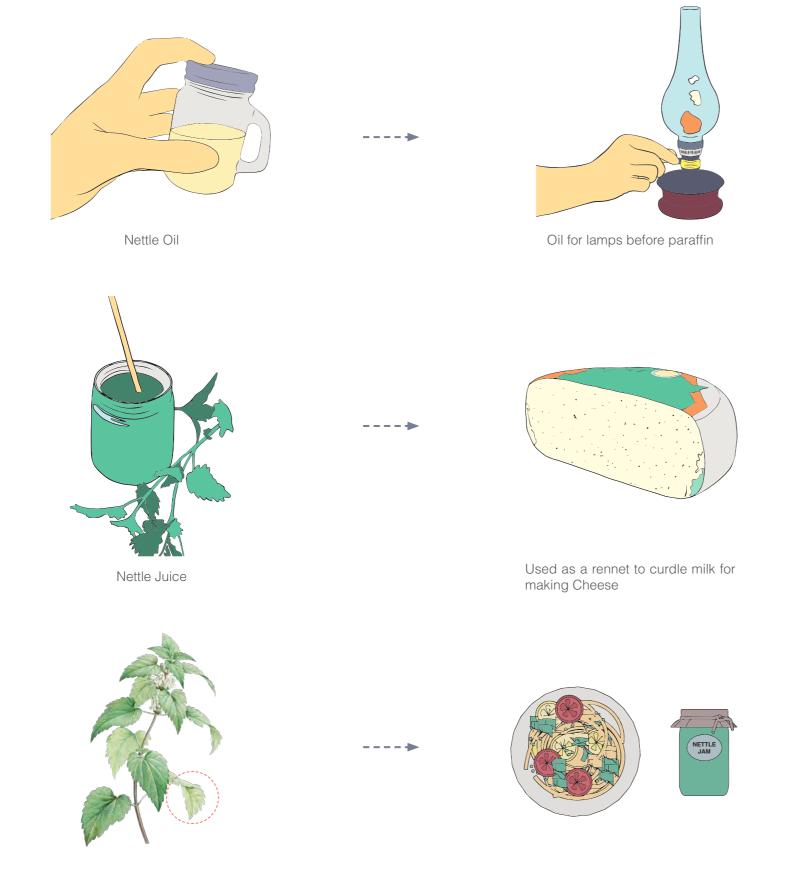




# **HISTORY OF NETTLE**

HISTORY OF NETTLE IN NORTHAMPTON

# Use of the Nettle during the 1990s





rubbed the oil into scalp to cure baldness



Seal leaking barrels

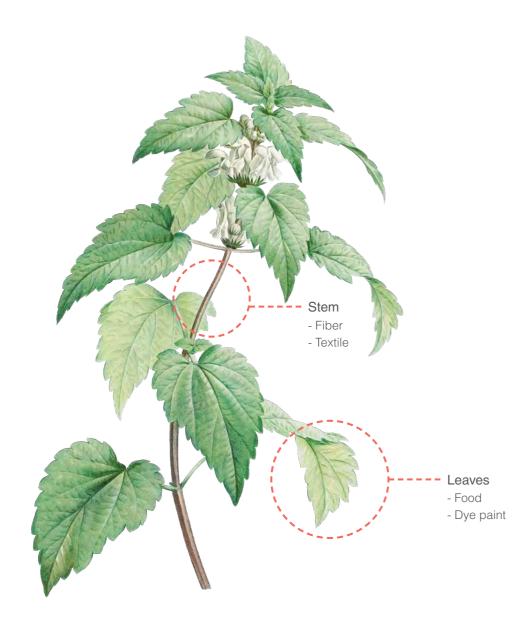


Nettle Jam and vegetable for food

# **NETTLE STUDY DIAGRAM**

EXTRACTING FIBRE FROM NETTLE

# Purposes of Nettle Parts



# Texture



Raw Nettle Fibre



Nettle Cloth

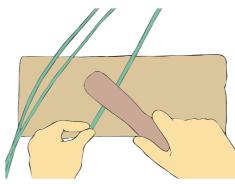


Nettle Paper

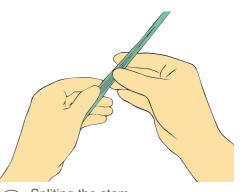
# Extracting fibre from nettle



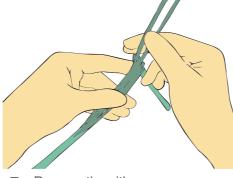
Tools preparing Gloves, Wooden Pestle, Butter Knife and Wood board



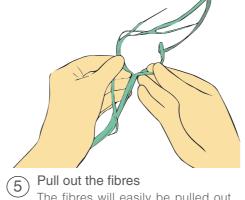
Hit the nettle stem Crashing the stem's surface to open by using pestle to hit it



Spliting the stem Open the stem gently with hands



Remove the pith Looking for the woody pith inside the stem and remove it



The fibres will easily be pulled out when the pith is removed. Then split the groove into at least 4 parts of



Make a bundle of the fibres, then use butter knife to remove the excess bark on the fibre



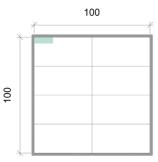
dry and it is all ready to go for any kinds of job



# **NETTLE STUDY DIAGRAM**

THE AMOUNT OF NETTLE REQUIREMENT FOR EACH PRODUCT



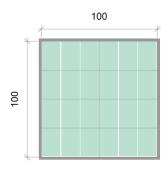




1 capsule of Supplement

- = >1 g of Loose Leaves
- = >1 sqm



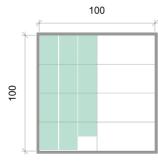


1 cloth

- = ~ 1kg of Nettle Stem
- = ~ 1.1 sqm



Nettle Noodle

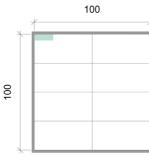


1 serve of Nettle Noodle

- = ~454g of Loose Leaves
- = >1 sqm



Nettle Essential Oil

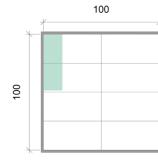


1 / 2 ml of Essential Oil

- = >1 g of Loose Leaves
- = >1 sqm



Nettle Paper

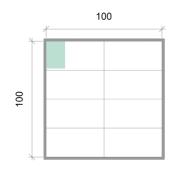


1 sheet of paper

- = ~100 g of Nettle Stem
- = > 1 sqm



Nettle Soup

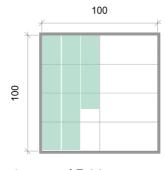


- 1 serve of Nettle Soup
- = ~56 g of Loose Leaves

100

= >1 sqm



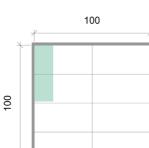


1 meter of Fabirc

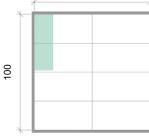
- = ~400 g of Nettle Stem
- = >1 sqm



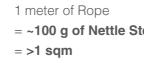
Nettle Fabric

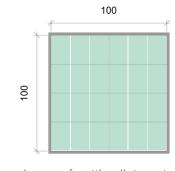


Nettle Rope



= ~100 g of Nettle Stem





1 sqm of nettle allotment

- = ~ 900g of Nettle
- = ~ 36 nettle

100

100







1 cup of Nettle Tea = >1 g of Loose Leaves = >1 sqm



Herbal Supplement

100 100

Nettle Cloth

Nettle Jam Stinging Nettle Marmelade

Nettle Jam

1 jar of Nettle Jam = ~100 g of Loose Leaves = >1 sqm

# **NETTLE STUDY DIAGRAM**

NETTLE RELATED PRODUCTS AND ALLOTMENT STUDIES

# How much nettle could grow on site:





Total green area (250sqm allotment)

- = ~9,000 Nettle
- = ~225kg Nettle

- -

Total get of products (per day)

- = ~102 Nettle Products

= ~225kg Nettle

More nettle could grown around the town centre including backyard (urban scale ):







Total green area (~16,000sqm)

- = ~397,801 Nettle
- = ~14,400,000kg Nettle

Total get of products (per day)

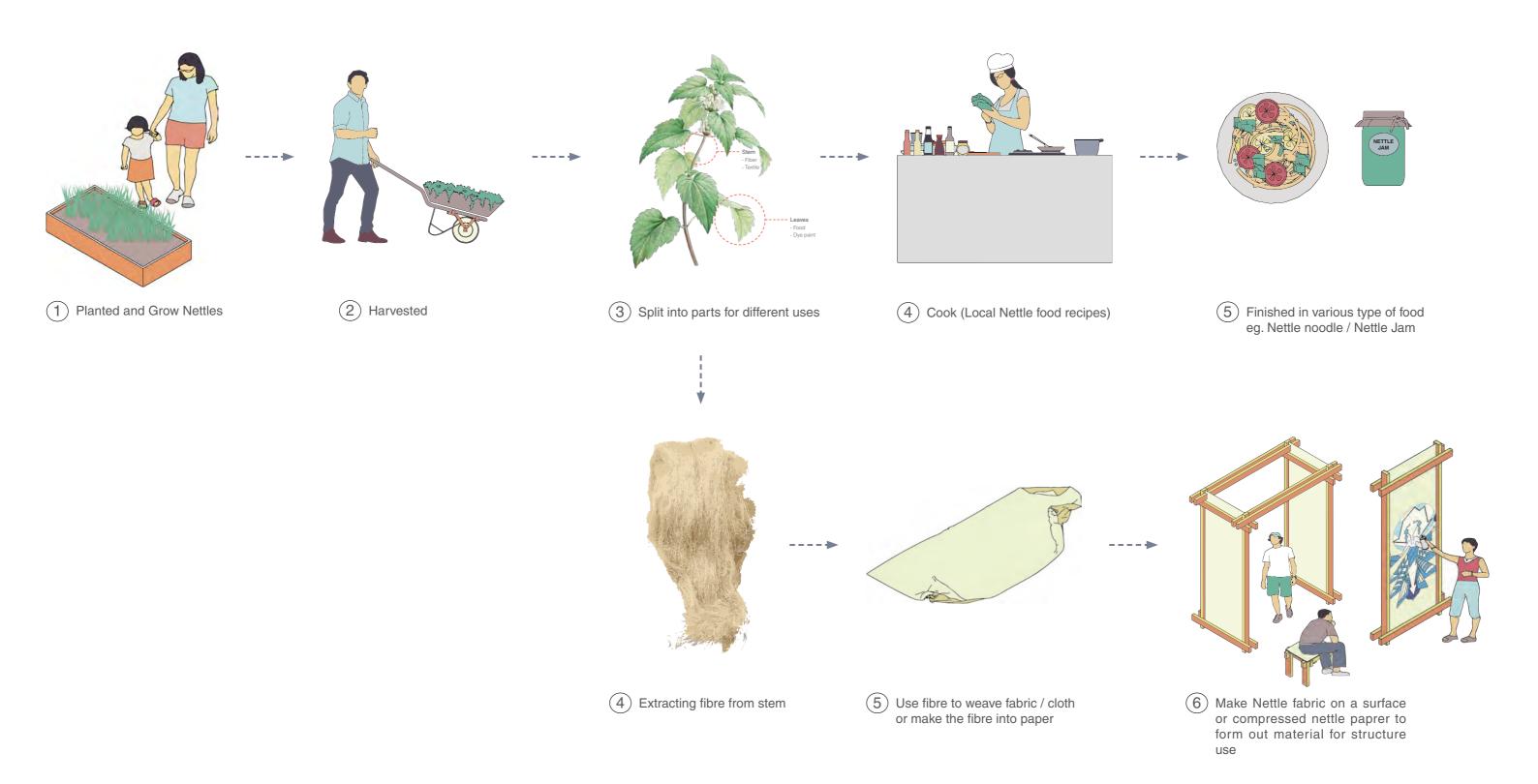
= ~14,400,000kg Nettle

= ~6,500,000 Nettle Products



# **PROGRAM STUDY DIAGRAM**

DIFFERENT USES OF NETTLE



## **VIDEO**

LINK:

https://youtu.be/79n5hx4l\_l0

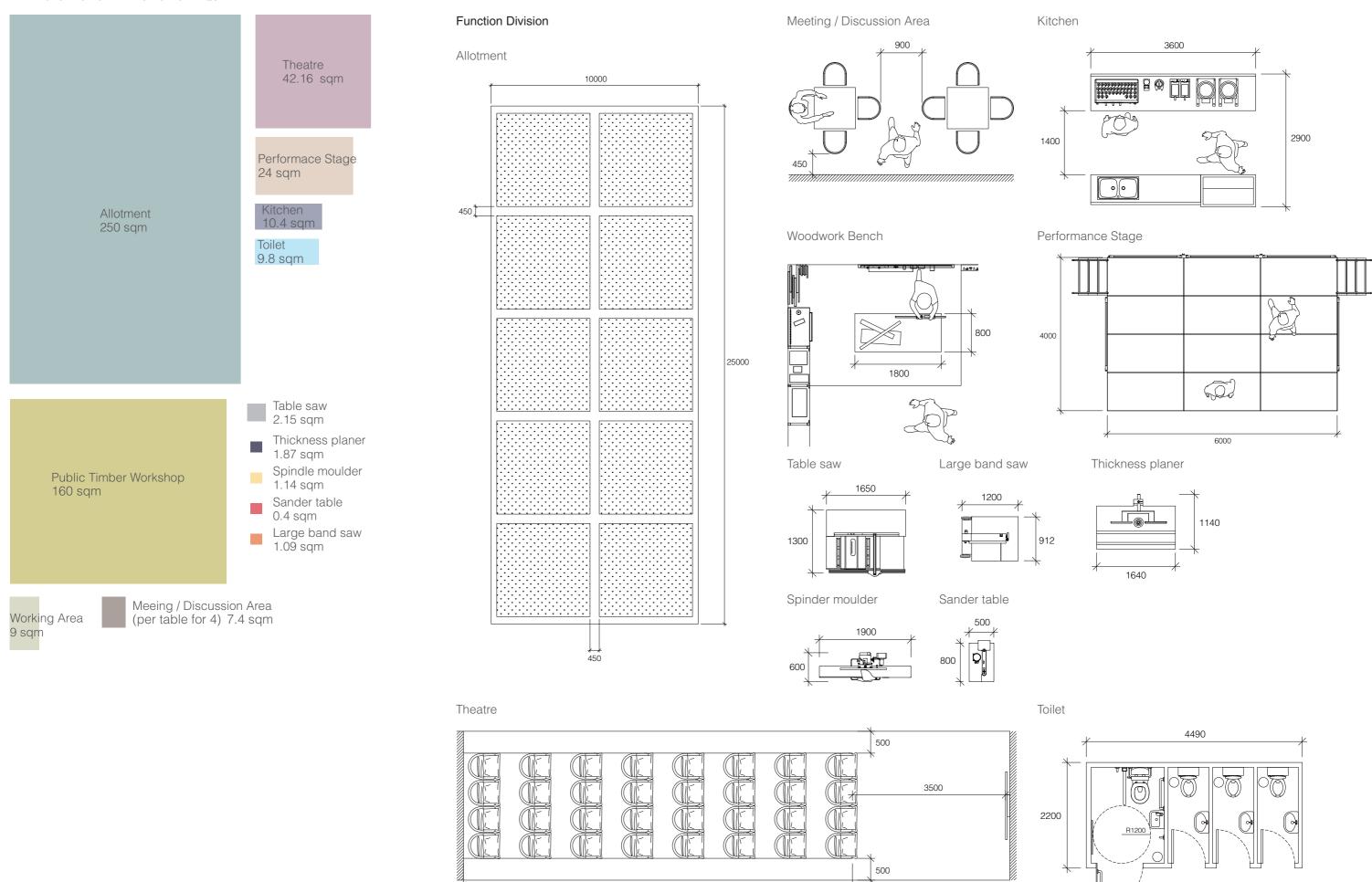
## A MODEL SHOWING THE SCHEME OF PROJECT

TENSION BETWEEN RISK AND SAFE



#### **PROGRAM STUDY DIAGRAM**

THE PROPORTION OF MINIMUM SPACE REQUIREMENT



8900

## **POSSIBLE ACTIVITIES DIAGRAM**

LAYOUT WITH CIRCULATION

SCALE: 1 - 300

Toilet



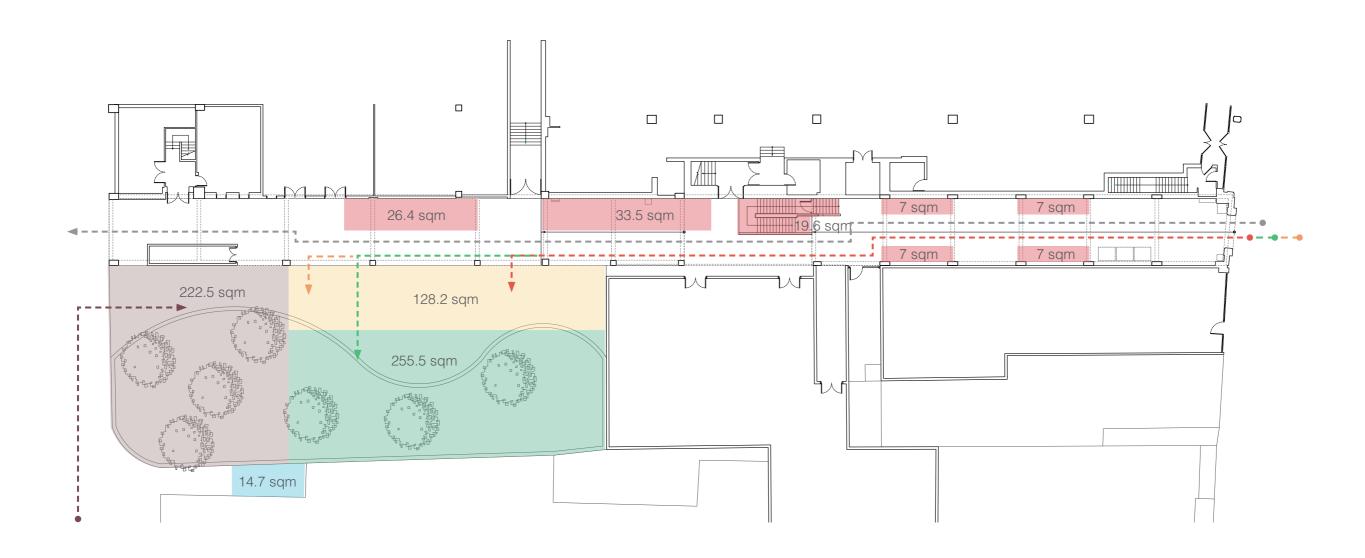
Allotment

Public Timber Worskshop

•-
Pass / Walk through

•--▶ Cafe'

•--▶ Material Delivery



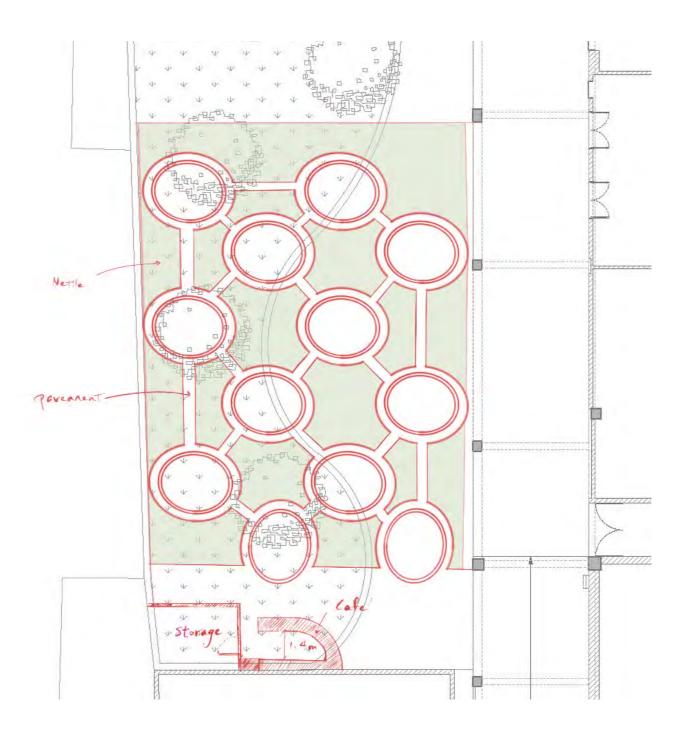
DESIGN SKETCHES TO INCULDE NETTLE

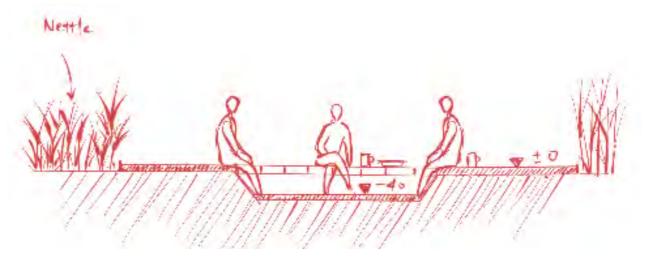
#### Social Spaces by Zoning



Gastro Safe Zone, Czech Republic

- Managing the distance between the space by grid system
- Each zone provide the sense of safe and enjoyment when having food with friends and family in the public space





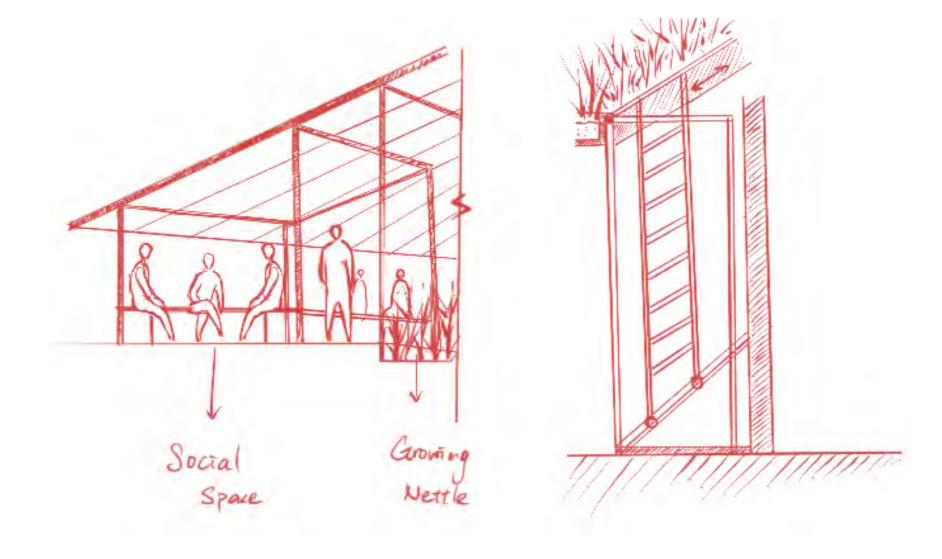
DESIGN SKETCHES WITH ALLOTMENE

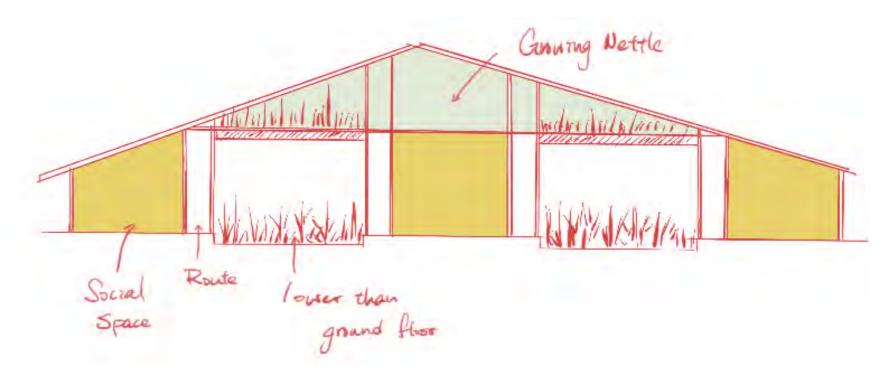
#### Growing / Allotment on site



Brasserie 2050, Netherlands

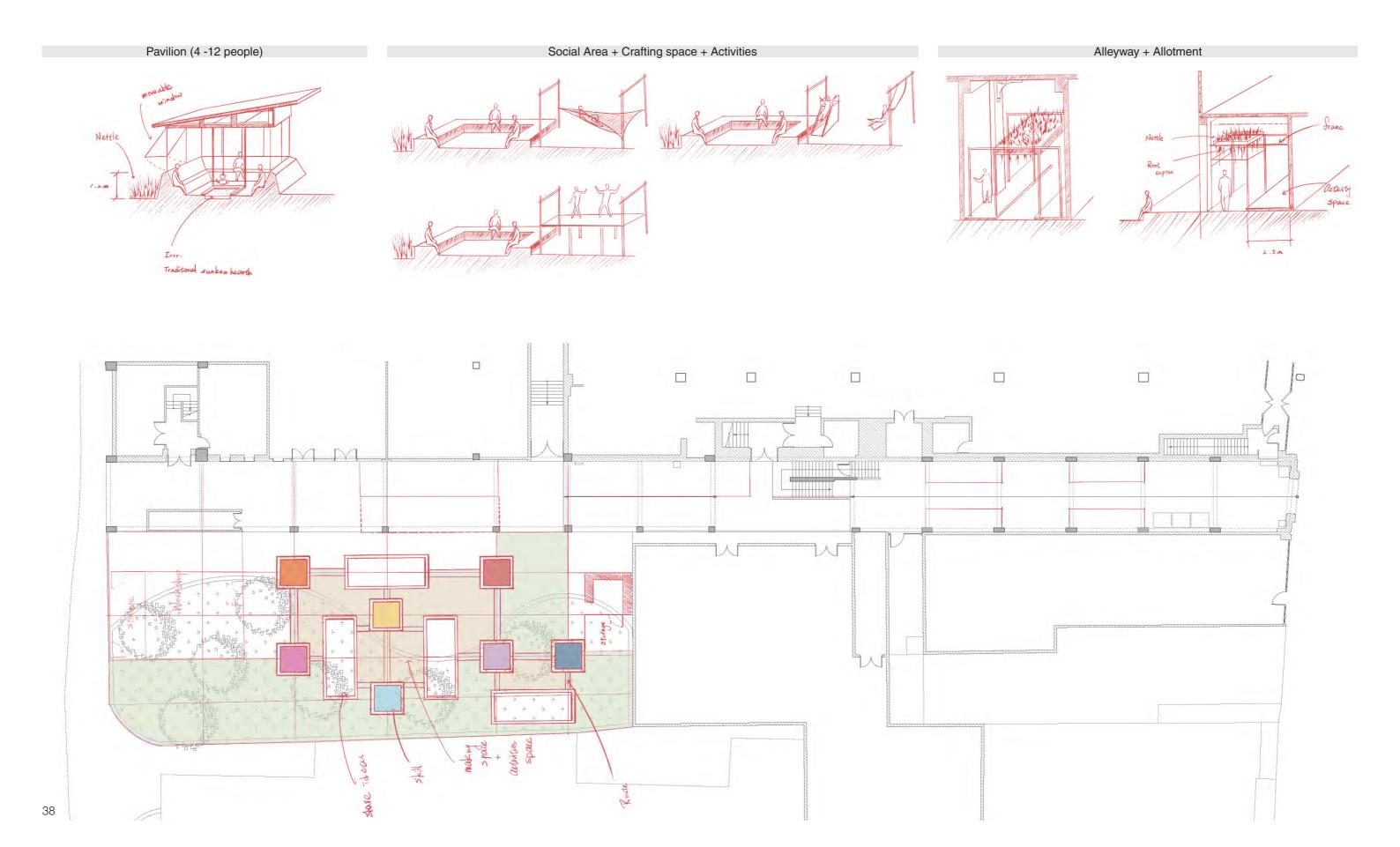
- Growing food on site and sell it at the same time
- Building's material were built in borrowed, hired and demountable standard building material



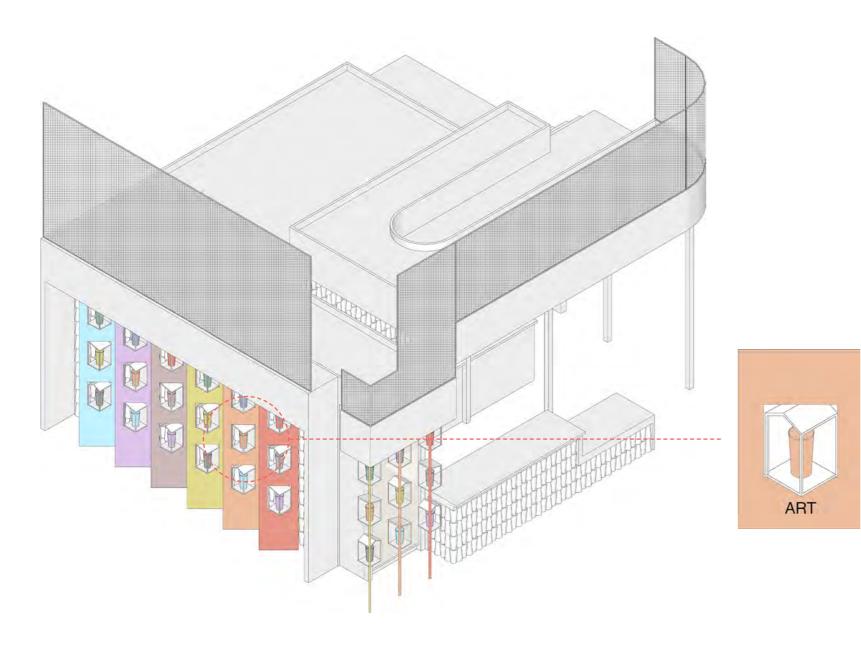


DESIGN DEVELOPMENT + POSSIBILITIES





ISOMETRIC DRAWING OF FRONT DESK

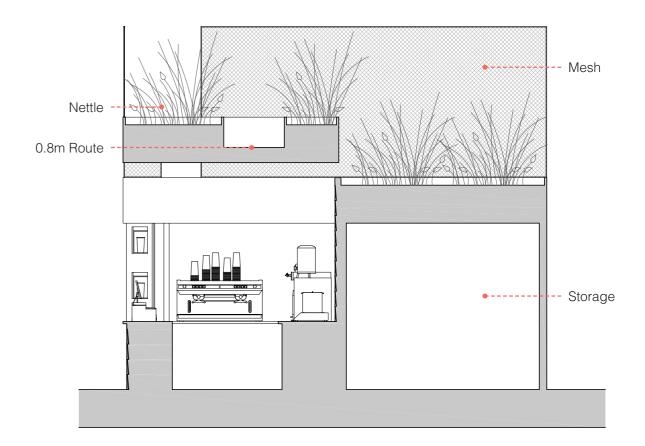


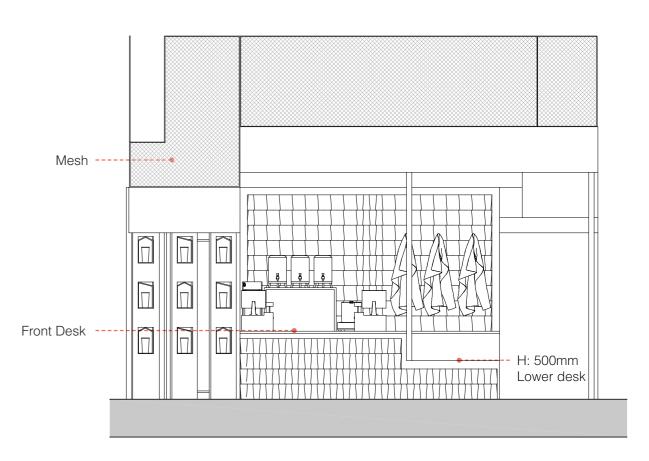
Different Coloured Slabs



Coloured Tile







ISOMETRIC DRAWINGS: PAVILIONS

#### Pavilion





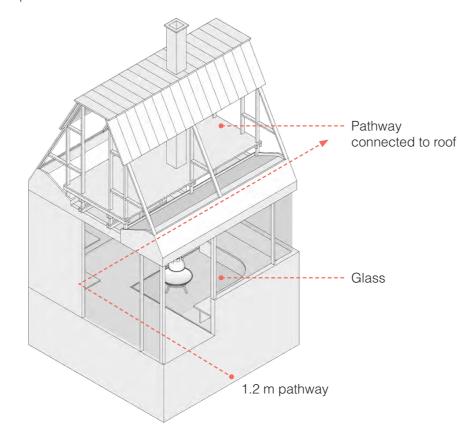
Irori (Traditional Japanese Sunken Hearth)

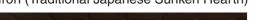


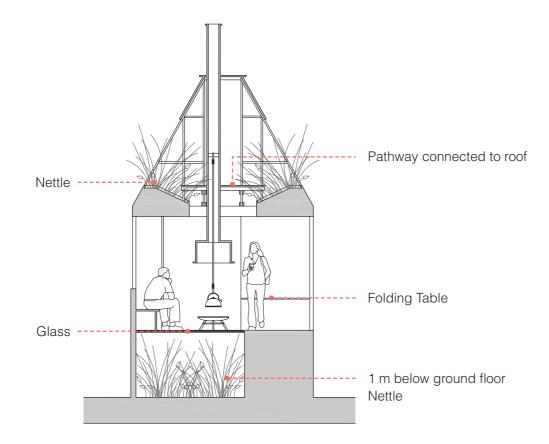


#### Pavilion Design (Small)

4 - 6 people

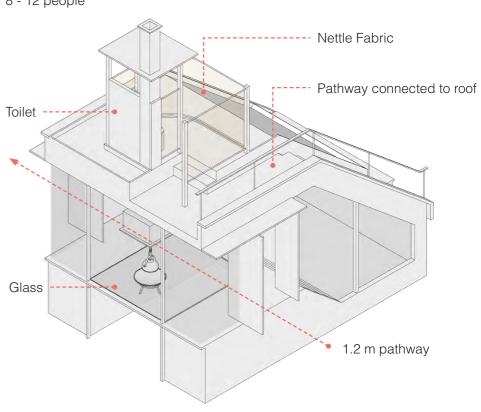


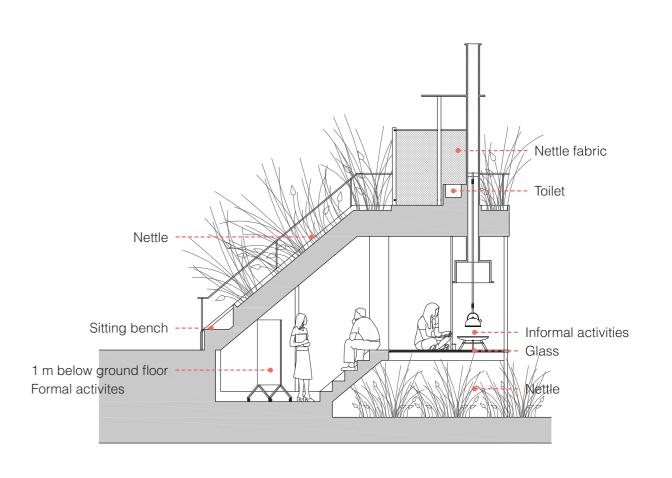


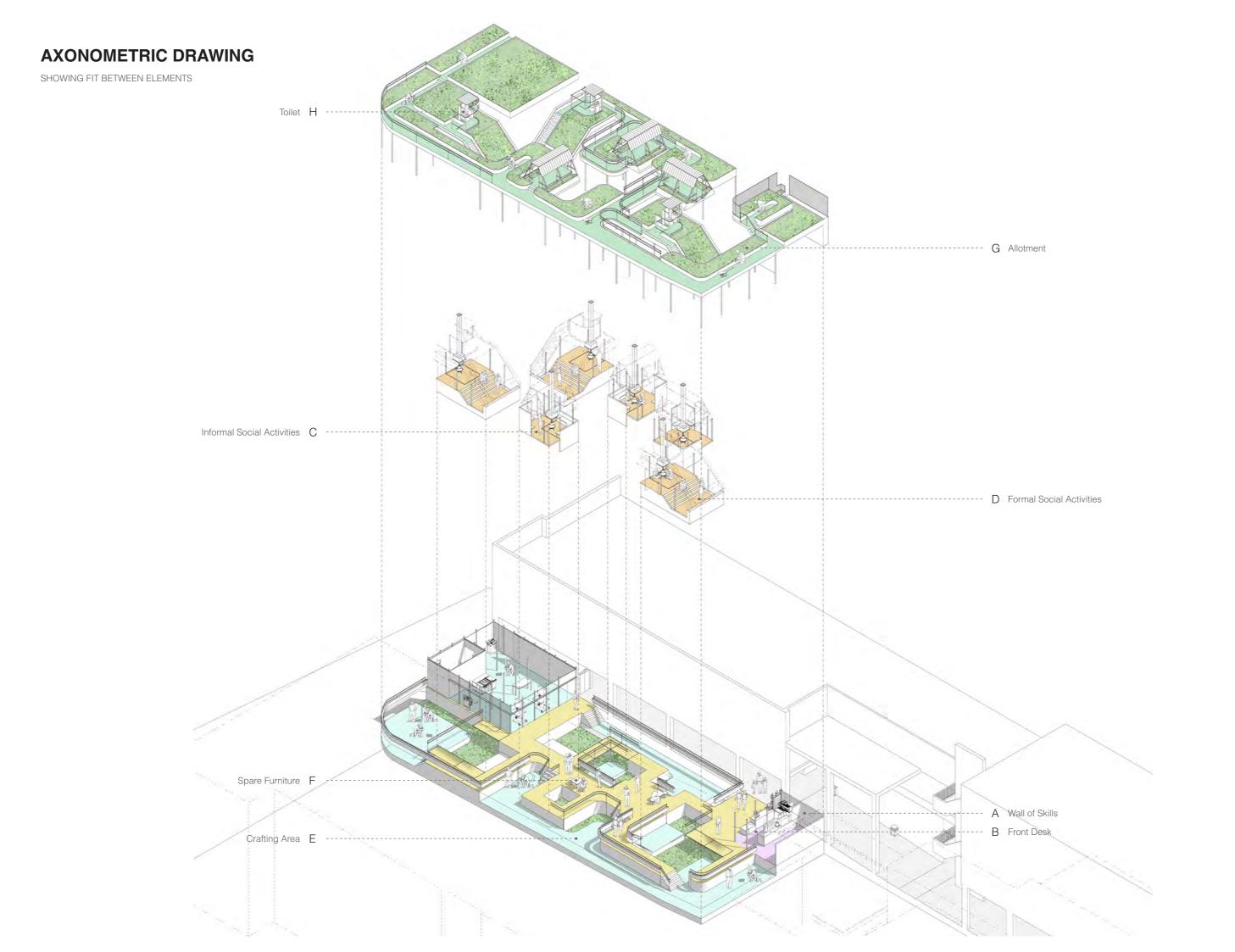


#### Pavilion Design (Large)

8 - 12 people

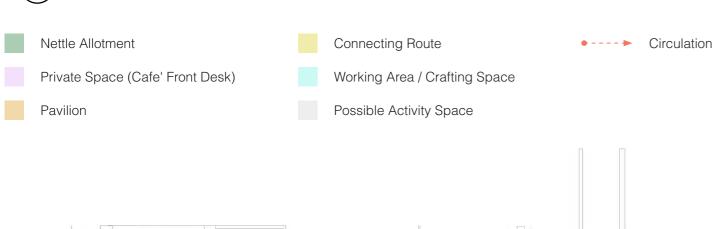


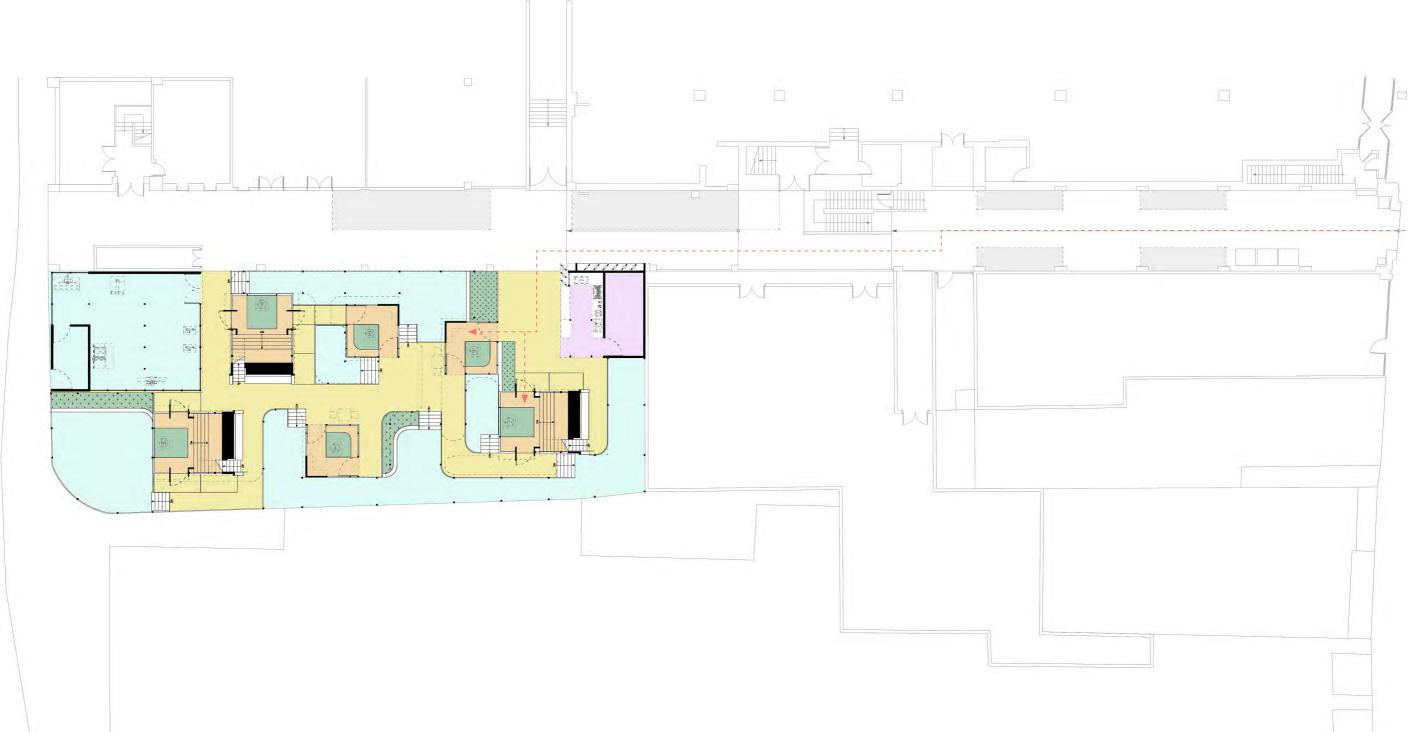




PROPOSAL PLAN (GROUND FLOOR)







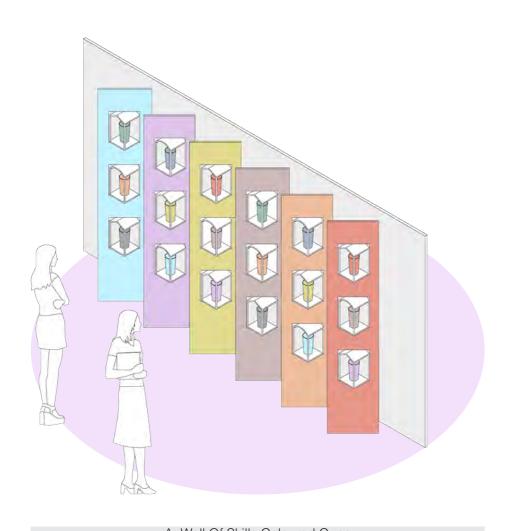
PROPOSAL PLAN (GROUND FLOOR)  $N \bigcirc$ SCALE: 1 - 100 1. Cafe' Front Desk 2. Nettle Storage 3. Workshop (Machine Room) 4. Material Storage 5. Possible Activity Space

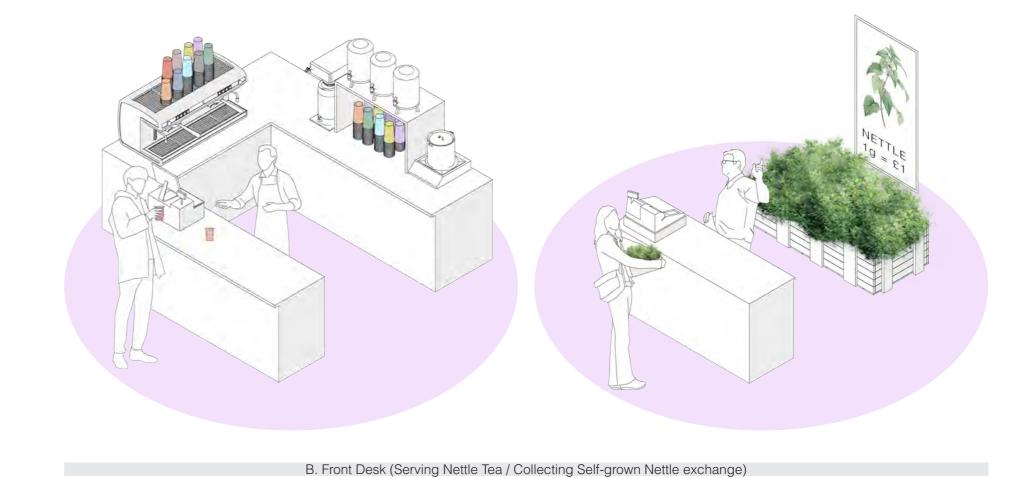


PROPOSAL PLAN (ROOF)

SCALE: 1 - 100 N







A. Wall Of Skills Coloured Cups



Design



Music



Gardening



Performance

Managing







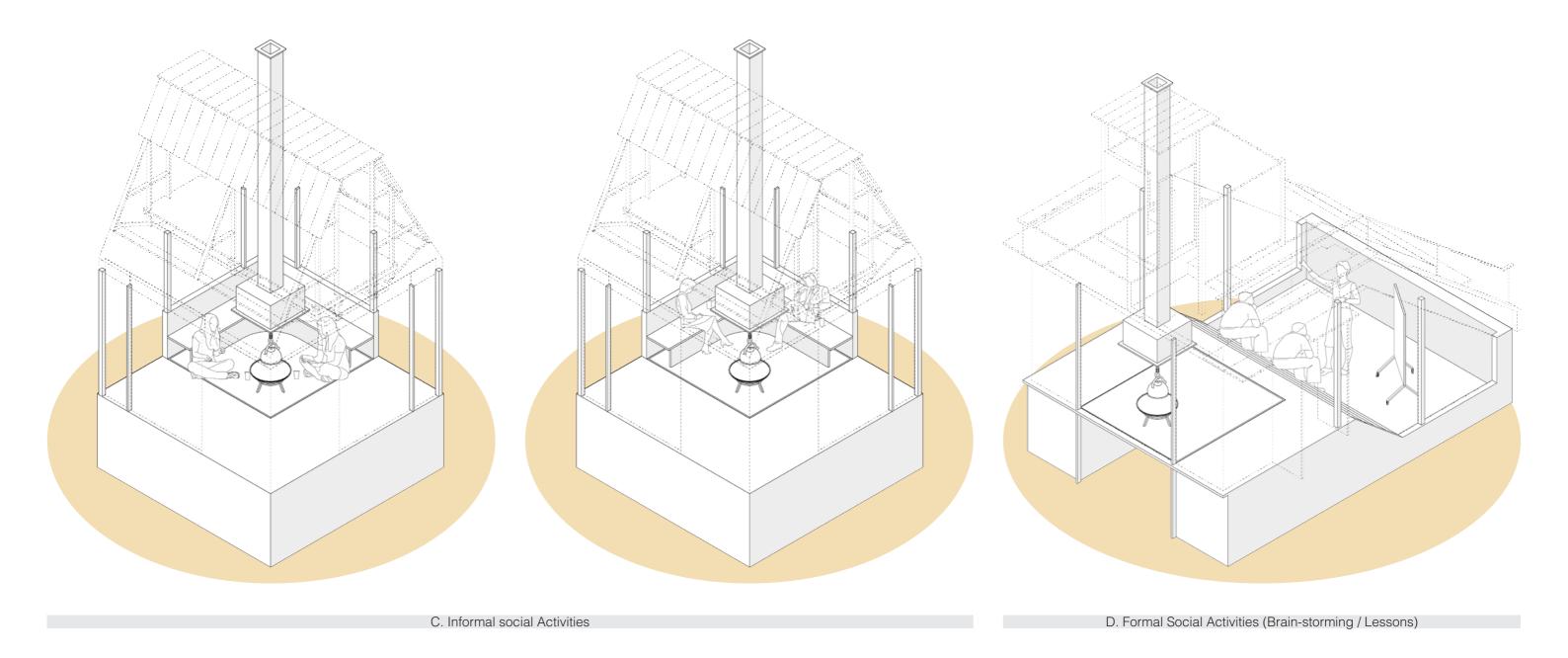


Construction



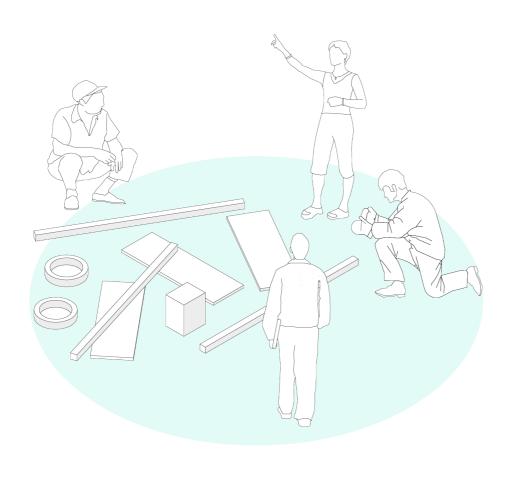
Make-up

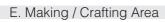


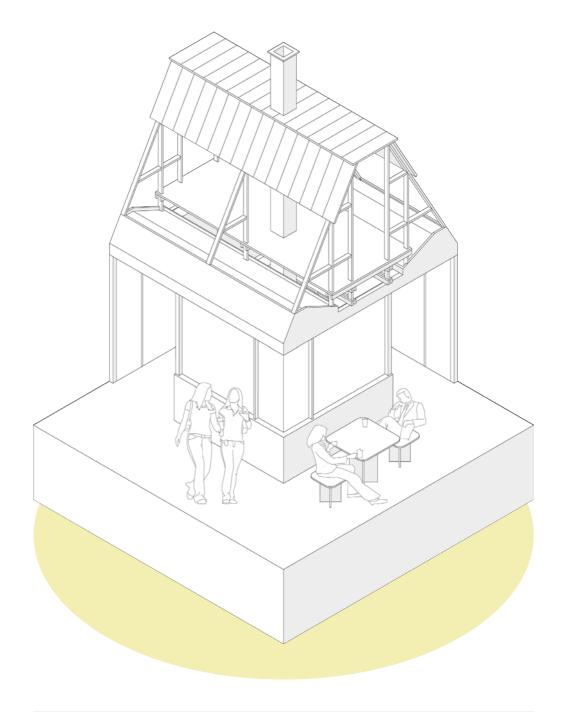


## **KEY ELEMENTS**

SOCIAL SPACES AND "MAKING" SPACES

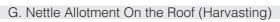


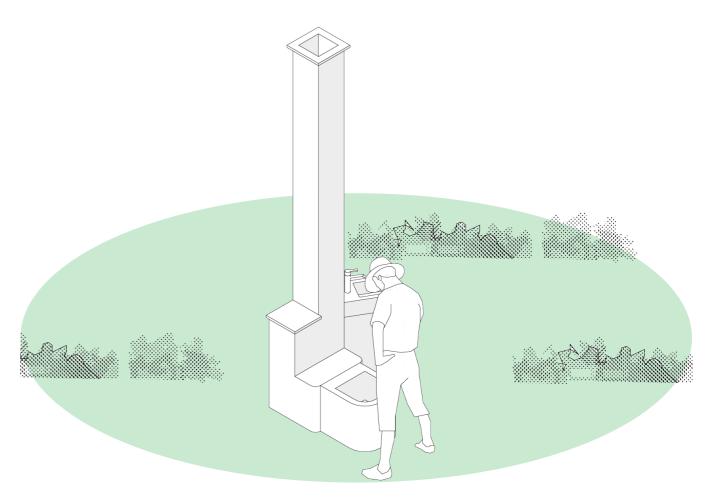




F. Spare Furniture (For More Social Activities On Site)







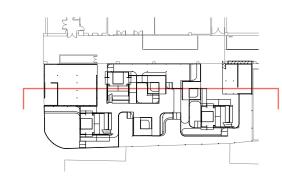
H. Toilet (Urine Collecting For Fertilizer)



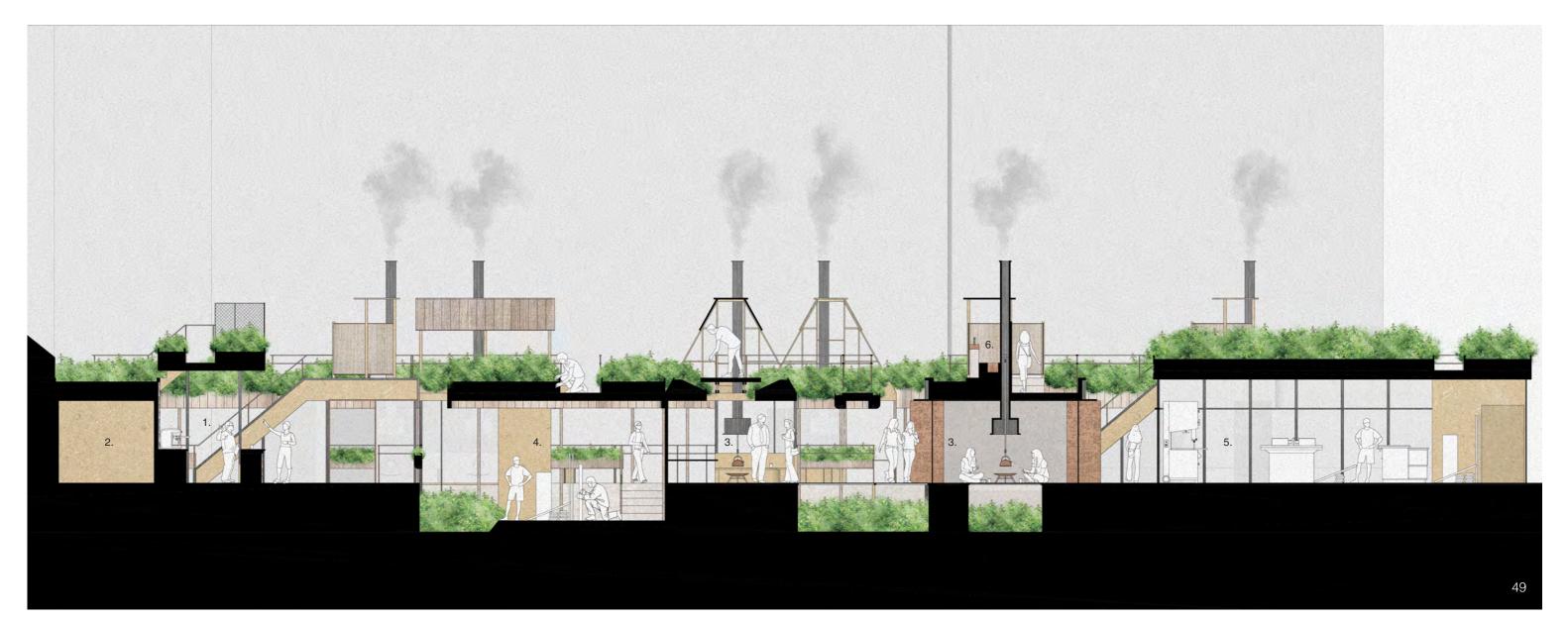




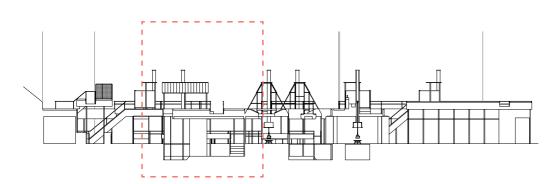
PROPOSAL LONG SECTION



- 1. Cafe' Front Desk
- 2. Nettle Storage
- 3. Social Space
- 4. Crafting Area
- 5. Workshop (Machine Room)
- 6. Toilet



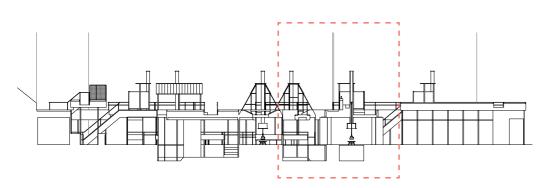
PROPOSAL PART SECTION

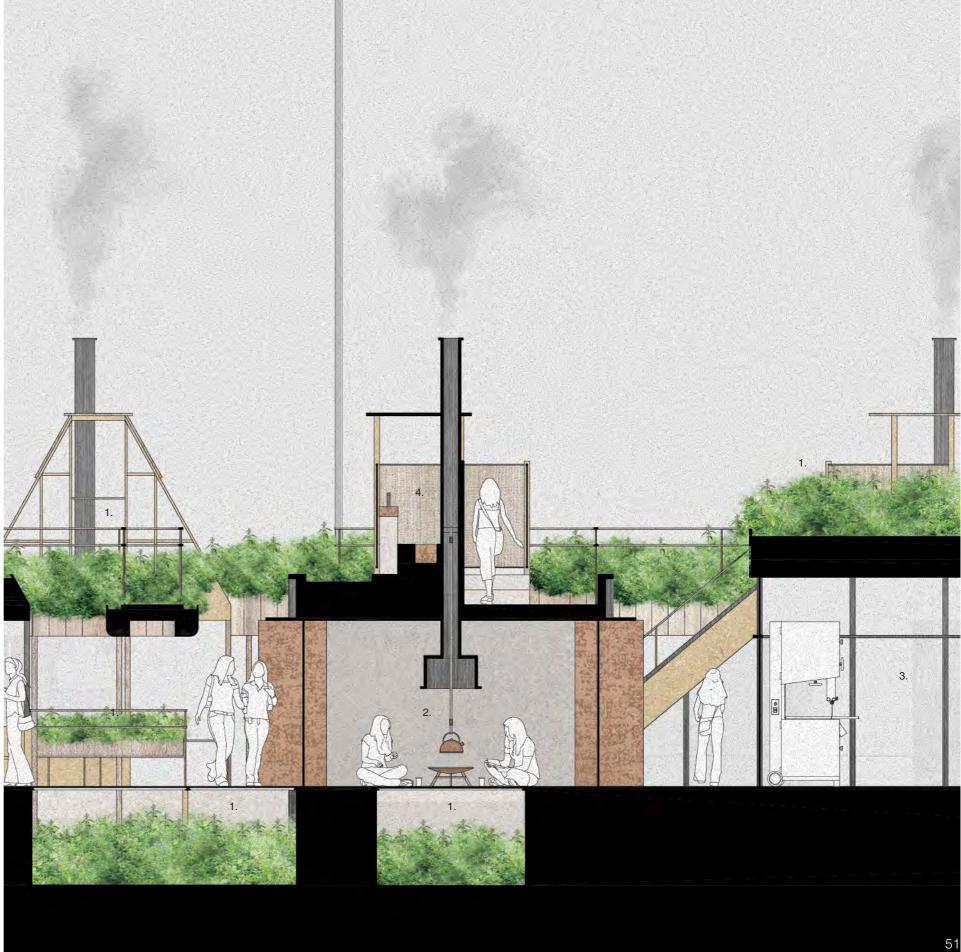




- 1. Nettle Allotment
- 2. Social Space
- 3. Crafting Area

PROPOSAL PART SECTION



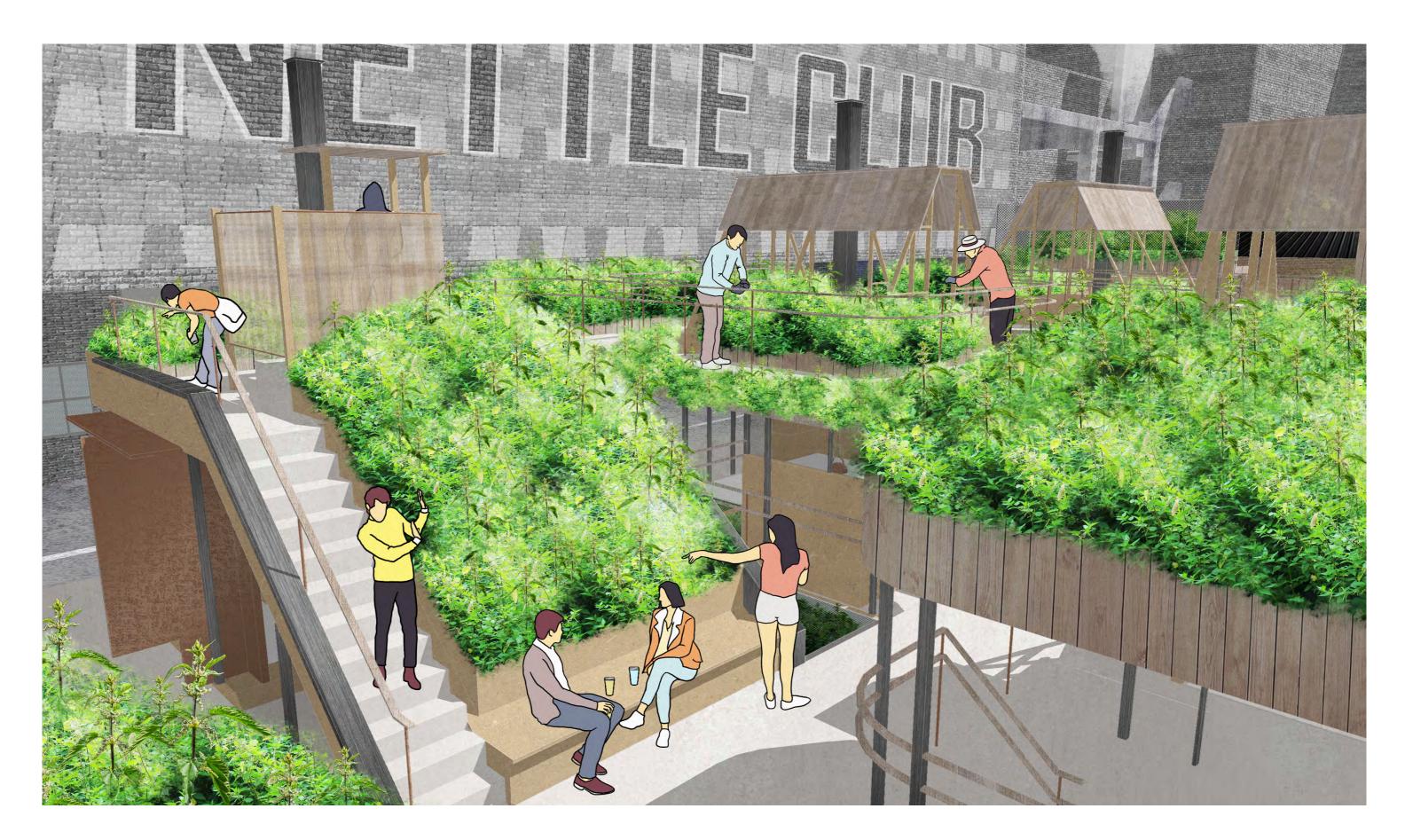


- 1. Nettle Allotment
- 2. Social Space
- 3. Workshop (Machine Room)
- 4. Toilet

PROPOSAL CROSS SECTION



NETTLE ALLOTMENT AND TOILET ON THE ROOF AND FREE SPACES FOR REST AND SOCIAL



ALL PAVILIONS HAVE DIFFERENT TYPES OF SOCIAL ACTIVIES









PEOPLE SHARING SOCIAL ACTIVITIES SUROUNDED BY NETTLES



SPARE FURNITURE OUTSIDE OF PAVILIONS FOR MORE SOCIAL ACTIVITIES





TOILET SURROUNDED BY NETTLE AND WORKS AS A CONTAINER TO COLLECT UIRNE FOR NETTLE'S FERTILIZER







PEOPLE HARVESTING NETTLE ON THE ROOF



PEOPLE ATTRACTED BY AN EVENT AT THE EMPORIUM WAY



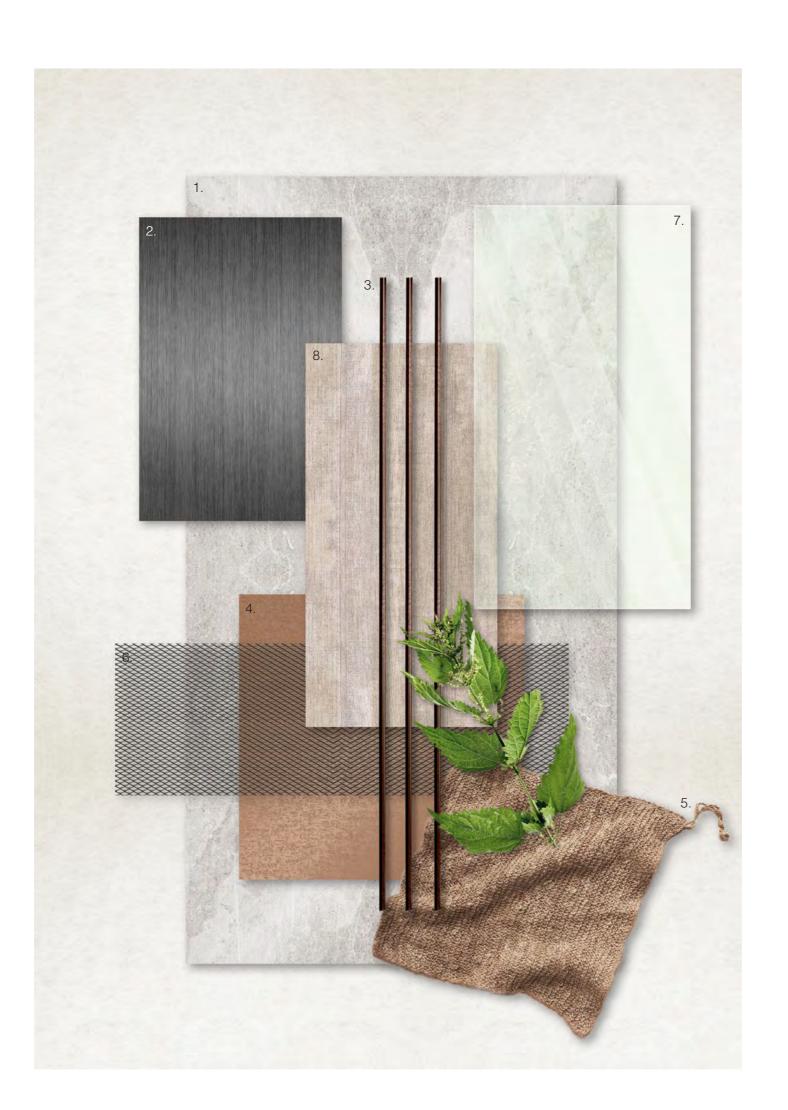
VARIOUS



## **MATERIAL PALETTE**

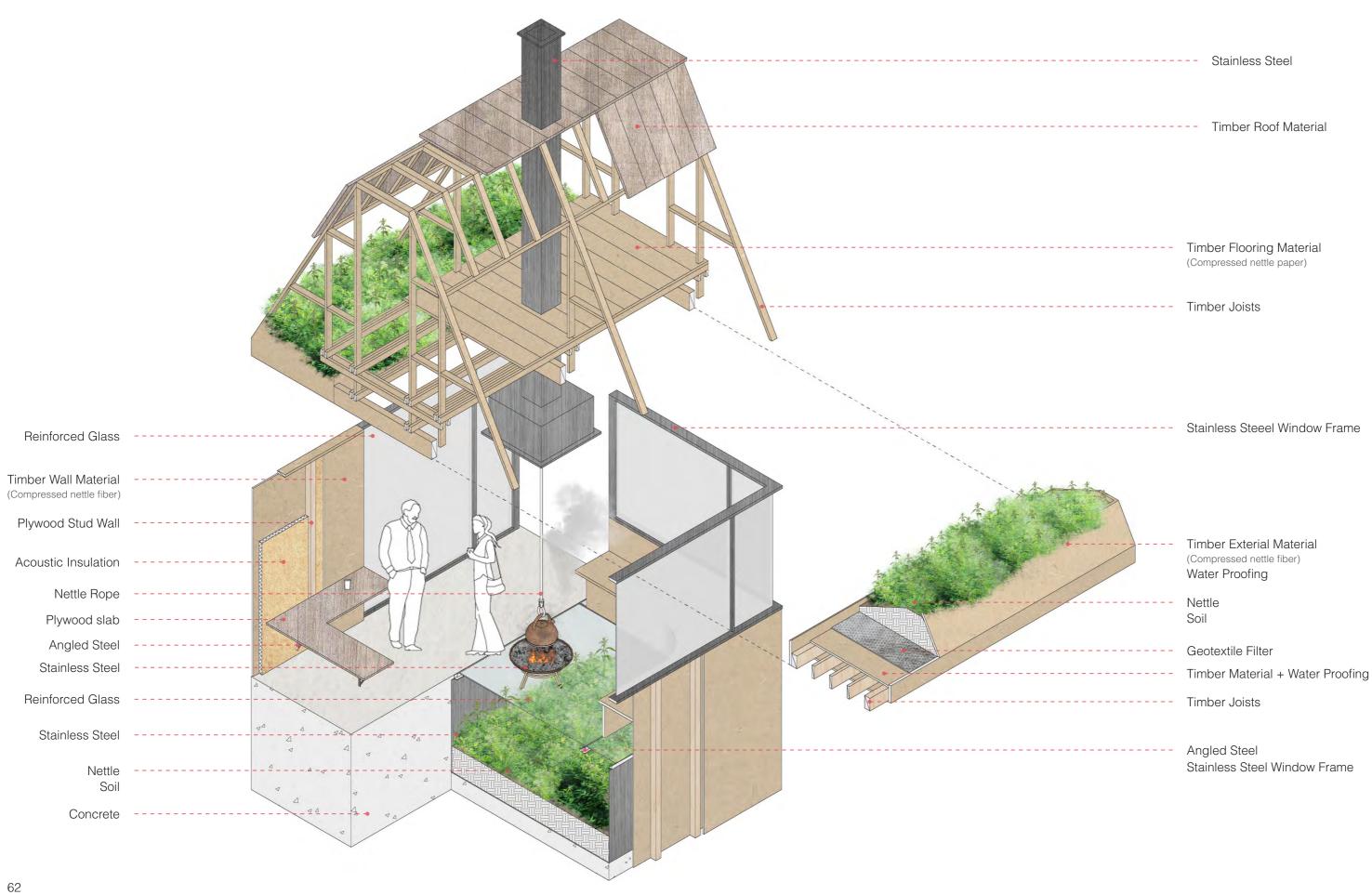
A FOCUS OF NATURAL

- 1. Concrete
- 2. Stainless Steel
- 3. Corten Steel Rod
- 4. Copper Panel
- 5. Nettle Fabric
- 6. Mesh
- 7. Reinforced Glass
- 8. Timber



#### **DETAIL EXPLORATION OF THE STRUCTURE AND MATERIALS**

LOOKING AT THE SOCIAL SPACE AND THE PLACE TO GROW NETTLE



# CREATIVITY, ENJOY THE RISK AND EMBRACE THE NETTLE

THE THREE CORE MESSAGES OF THE PROJECT







