BREAKWATER INSTITUTE ON GOAT ISLAND
AXONOMETRIC

1. TERMINAL TO ARNISH POINT OIL RIG PARK & MUSEUM
2. WAVE DEFENSE FOR THEATRE/ MARKET
3. THEATRE / MARKET SPACE
4. FISH RESTAURANT / COOKING SCHOOL
5. OUTSIDE BAR
6. GREEN ROOM / THEATRE MARKET PREPERATION BELOW PUBLIC REALM
7. CAFE
8. RETAINED GOAT ISLAND ACCESS ROAD
9. LARGE COASTGUARD BOATHOUSE WITH CHANGING FACILITIES
10. SMALL COASTGUARD BOATHOUSES
11. STUDIO MEZZANINES OVER BOATHOUSES
12. WRASSE TESTING & BREEDING TANKS

13. LIQUID ASSETS OPERATIONS CENTRE
14. GALLERY & RECEPTION
15. CLASSROOM/ SCUBA DIVING HIRE
16. STAIR TO AQUARIUM & LABORATORIES
17. EXEMPLAR FISH FARM
18. VIEWING GALLERY
19. SCUBA DIVING LESSONS/ DIVING & SWIMMING POOL
20. AQUACULTURE INDUSTRY LEADING FISH FARMS
21. MARINE BASED LABORATORIES
22. DEEP WATER TESTING FACILITIES
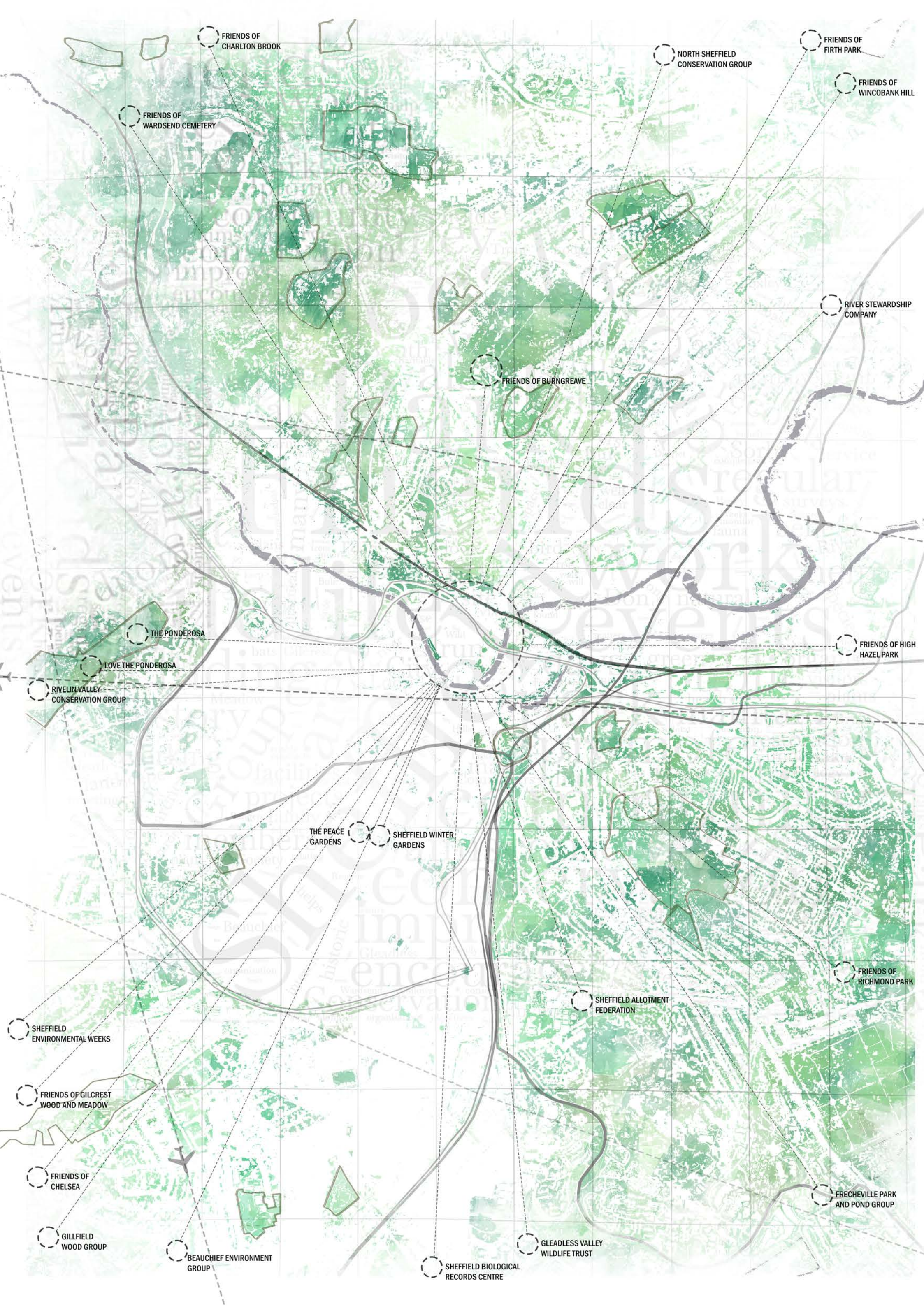23. CHANGING ROOMS
24. MUSSEL/ SCALLOP FARMING

Over Your Cities Grass Will Grow

Inspired by The La Ribaute Project by Anselm Kiefer and his Seven Heavenly Palaces, I adopted my project title.

The photo joiner aims to encapsulate abandoned Victoria station succumbing to the natural world that it was designed to keep out. This contains images of both the past - with historic flashbacks of Victoria station, combined with images from the present day. Today, images are evident of the state of vegetation and overgrowth that is now taking over.

Abandoned Victoria station succumbing to the natural world it was designed to keep out

The labels on the map, reading roughly top to bottom:

FRIENDS OF CHARLTON BROOK

NORTH SHEFFIELD CONSERVATION GROUP

FRIENDS OF FIRTH PARK

FRIENDS OF WINCOBANK HILL

FRIENDS OF WARDSEND CEMETERY

RIVER STEWARDSHIP COMPANY

FRIENDS OF BURNGREAVE

THE PONDEROSA

LOVE THE PONDEROSA

FRIENDS OF HIGH HAZEL PARK

RIVELIN VALLEY CONSERVATION GROUP

THE PEACE GARDENS

SHEFFIELD WINTER GARDENS

SHEFFIELD ENVIRONMENTAL WEEKS

FRIENDS OF RICHMOND PARK

FRIENDS OF GILCREST WOOD AND MEADOW

SHEFFIELD ALLOTMENT FEDERATION

FRIENDS OF CHELSEA

GILLFIELD WOOD GROUP

BEAUCHIEF ENVIRONMENT GROUP

SHEFFIELD BIOLOGICAL RECORDS CENTRE

GLEADLESS VALLEY WILDLIFE TRUST

FRECHEVILLE PARK AND POND GROUP

The Outdoor City

Sheffield is The Outdoor City.

'Sheffield is the UK's leading destination for people seeking city culture and outdoor recreation'.

Due to the natural topography, the city can offer a wider number of unique outdoor activities. Sheffield is the only city in the UK with a National Park within its boundary; the rivers, valleys, reservoirs and rocks allow countless outdoor activities both outside and within a vibrant and cultural city.

Sheffield is proud of its industrial past. It is a special city still of innovation and manufacture. The juxtaposition of modern day industry and historic nature seems to provide a harmonic relationship with social cultures.

—

The mapping diagram (left) extends to further macro scale to display the extent of green space in the wider city. More importantly and in contrast to the previous map, it also identifies usable public green space in the city (highlighted by bold outlines).

The drawing shows how man-made intervention has pierced through this landscape over time - the railway, tram line and ring road all making divisions in the green space. I also believe it important to raise detail above ground and into the air, drawing common flight paths where infrastructure permits international travel.

To preserve the landscape and ecologies of Sheffield, independent environment groups engage with environmental issues within the city. These organisations are documented on the map. Some are community led, using bottom-up strategies, and others are government-led that possess authority to engage with aspects of the river and larger areas of land.

However, all allow for a community to become engaged. Thus, there could be a possibility and opportunities for city-wide communities to link together and work coherently with each other to facilitate a large-scale change.
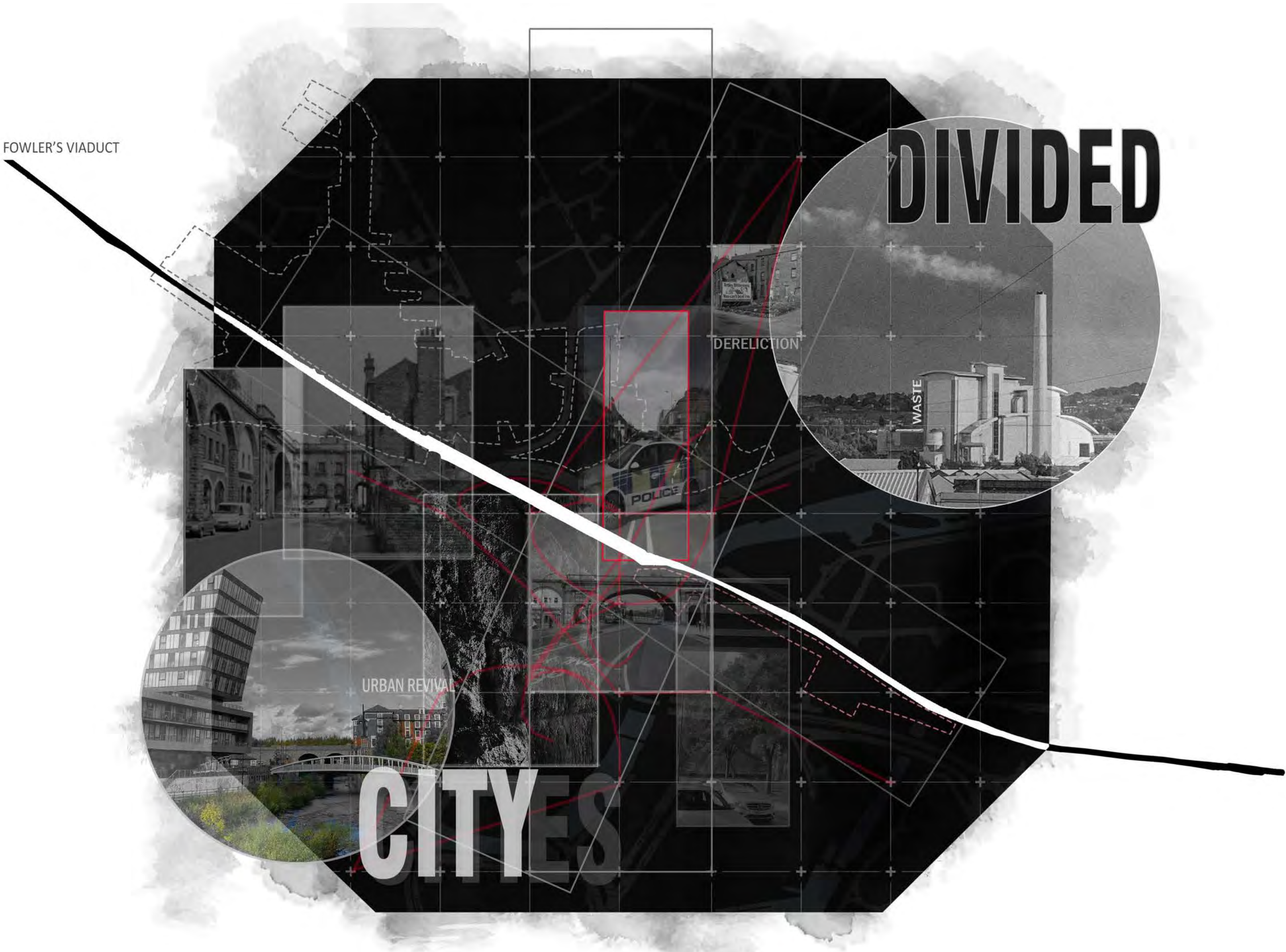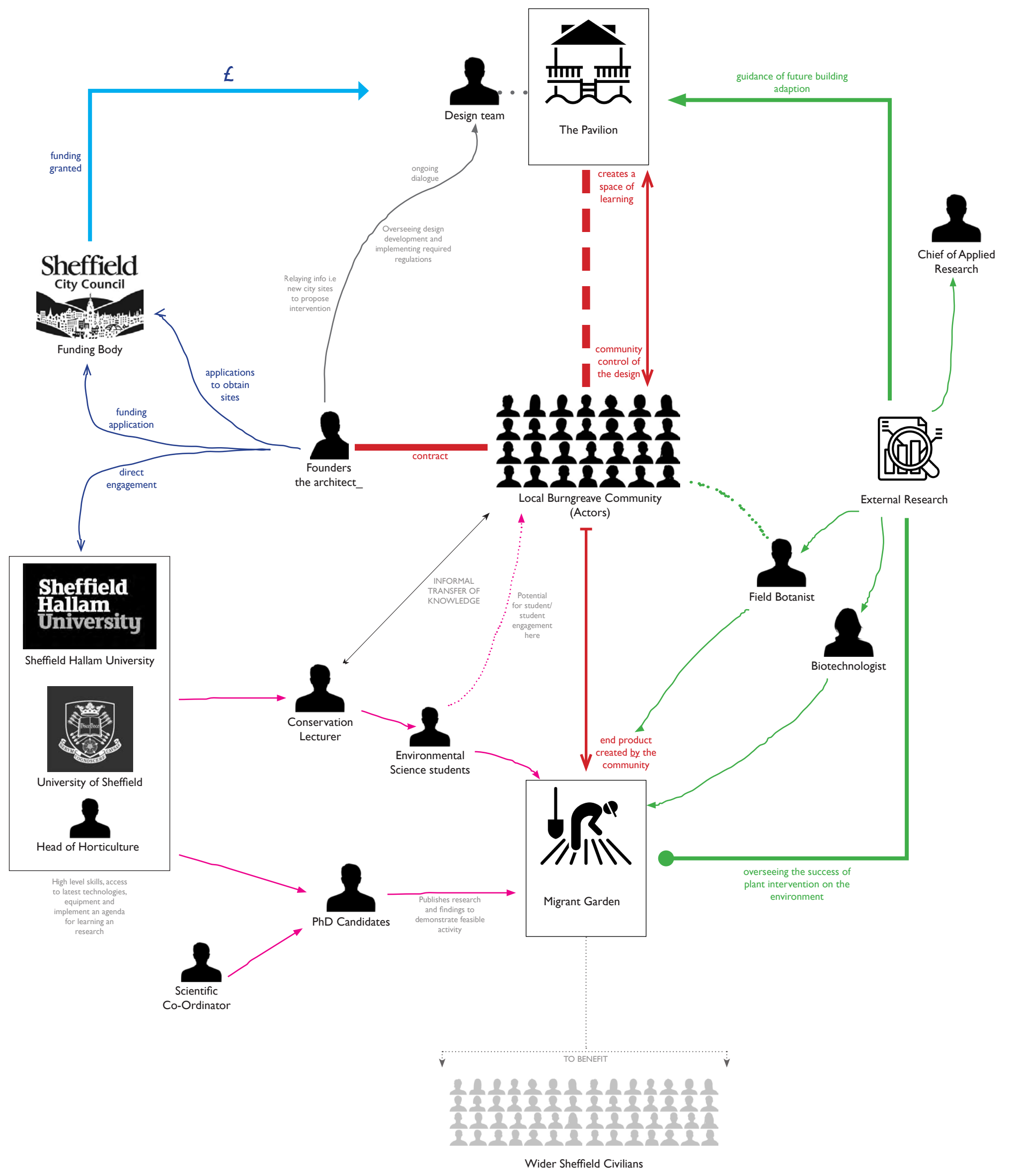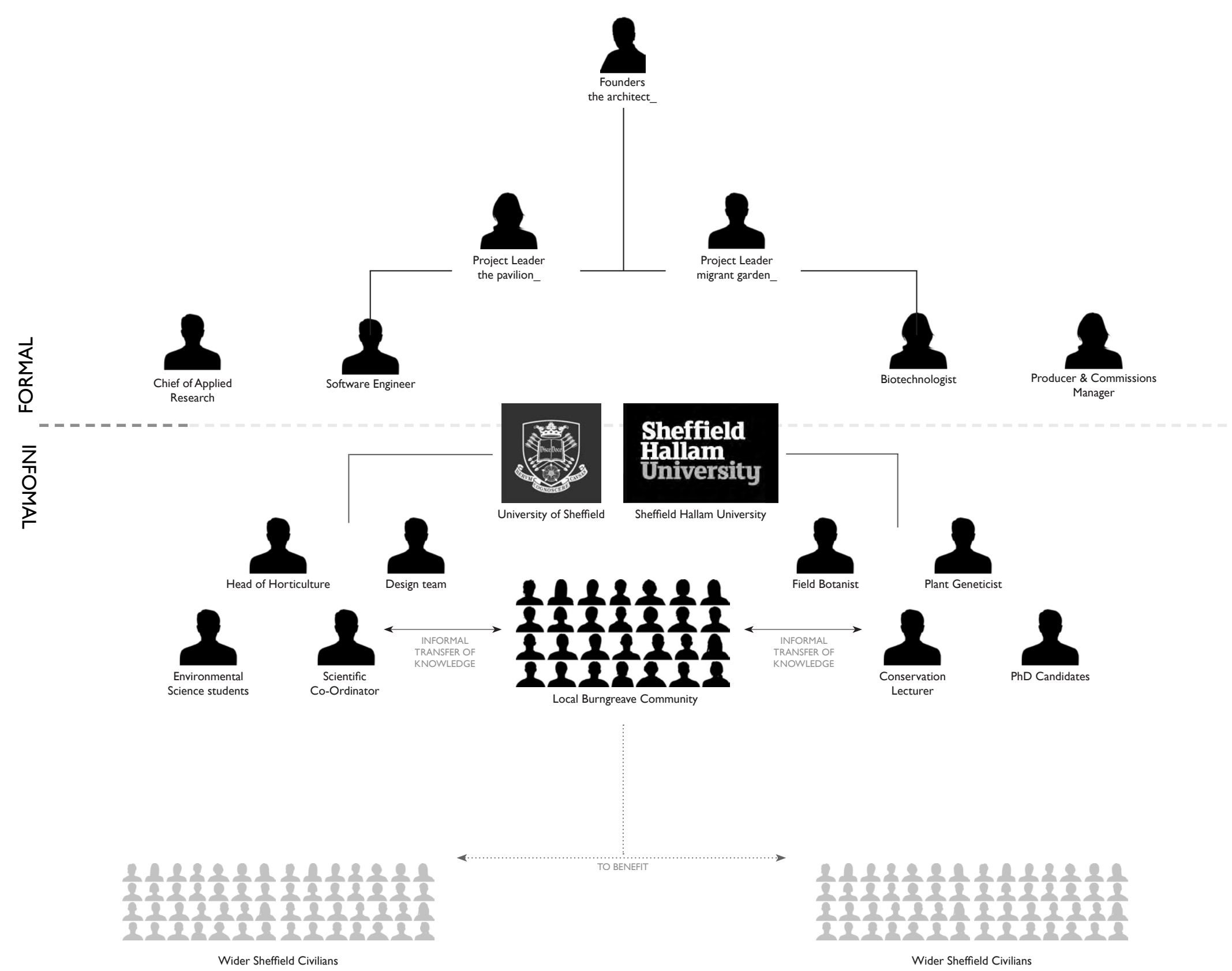
A city divided? A divided city.

—

At macro level, different scales of divide within Sheffield can be identified. Physical barriers seem to divide these areas of the city - the River Don ultimately separating the city from Wicker. Wicker is separated from Spital Hill by three physical barriers - the A61 ring road, A6109 road and former railway viaduct - all three distorts any transition between the two locations.
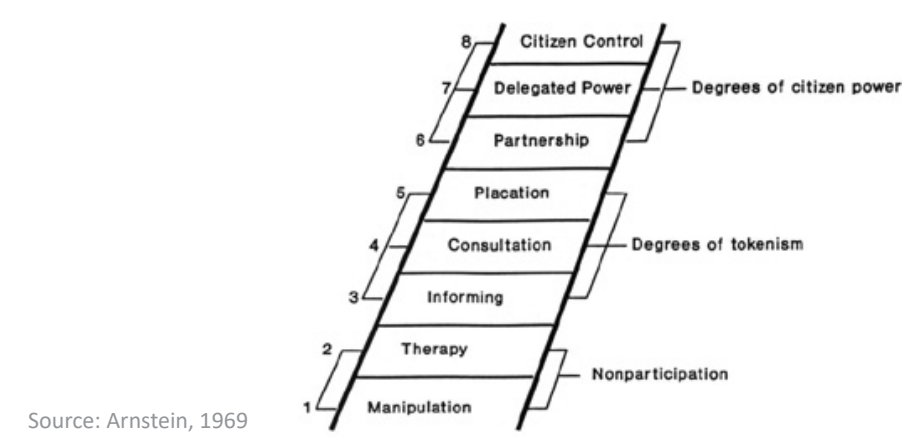
Of definite interest is a socio-economic, spatial segregation issue. This situation has occurred where people of similar backgrounds, country of origin, culture and consequently income all live concentrated in certain parts of the city - obviously separated from other groups. While this can be positive and negative, the segregation issue in Spital Hill is historically involuntary. Over time, this has lead to few interactions among the separate resident groups which in turn has caused fewer access to opportunities.

The argument against mapping socio-economies and spatial segregations at macro levels is that a depth of understanding of an area cannot be truly illustrated. Just because less development may occur, this does not mean that people are necessarily less happy.

Stakeholders to Learning

INFOMAL

Founders
the architect_

Project Leader
the pavilion_

Project Leader
migrant garden_

Chief of Applied Research

Software Engineer

Biotechnologist

Producer & Commissions Manager

University of Sheffield

Sheffield Hallam University

Head of Horticulture

Design team

Field Botanist

Plant Geneticist

Environmental Science students

Scientific Co-Ordinator

INFORMAL TRANSFER OF KNOWLEDGE

Local Burngreave Community

INFORMAL TRANSFER OF KNOWLEDGE

Conservation Lecturer

PhD Candidates

TO BENEFIT

Wider Sheffield Civilians

Wider Sheffield Civilians

£

funding granted

Sheffield City Council
Funding Body

Design team

The Pavilion

guidance of future building adaption

Chief of Applied Research

ongoing dialogue

Overseeing design development and implementing required regulations

Relaying info i.e new city sites to propose intervention

creates a space of learning

community control of the design

applications to obtain sites

funding application

Founders
the architect_

contract

Local Burngreave Community
(Actors)

External Research

direct engagement

Sheffield Hallam University

University of Sheffield

Head of Horticulture

INFORMAL TRANSFER OF KNOWLEDGE

Potential for student/ student engagement here

Conservation Lecturer

Environmental Science students

Field Botanist

Biotechnologist

end product created by the community

High level skills, access to latest technologies, equipment and implement an agenda for learning an research

PhD Candidates

Publishes research and findings to demonstrate feasible activity

Migrant Garden

overseeing the success of plant intervention on the environment

Scientific Co-Ordinator

TO BENEFIT

Wider Sheffield Civilians

Arnstein's Ladder of Citizen Participation

Source: Arnstein, 1969

Delegation. *'Citizens holding a clear majority of seats on committees with delegated powers to make decisions. Public now has the power to assure accountability of the programme to them.' (Dobson, u.d)*

The above stakeholder process illustrates how knowledge is transferred within the project. However it does not truly demonstrate the ways the community are placed in a position of delegated power - a crucial element to successfully implement a new balance between social, economical and environmental factors.

The Architect's role is primarily the initiator to the project. Partly, the architect acts as the mediator between formal/informal actors and between small-scale/large-scale actors to collaboratively bring them together.

The program is designed to be founded and devised by a team of people who engage with participants within the Burngreave community. This core team of actors all inherit different expertise and technologies which can deeply develop the program in a variety of areas.

SPACES OF LEARNING
USER INVOLVEMENT

These diagrams seek to demonstrate the spaces of learning within the project, and which actors within the 'Stakeholders of Learning' use these spaces.

With reference to the 'Stakeholders of Learning' page, different participants use their roles and responsibilities to engage with the learning spaces to harvest knowledge through physical output. Such outputs have the potential to dictate the infrastructural, ecological and social impacts to the scheme.


TEACHING AREA

Local Burngreave Community
Environmental Science students
PhD Candidates

Conservation Lecturer

COMMUNITY PERFORMANCE SPACE

Local Burngreave Community
Wider Sheffield Civilians

Conservation Lecturer
The Architect
Producer & Commissions Manager

GROWING AREA

Local Burngreave Community
Wider Sheffield Civilians
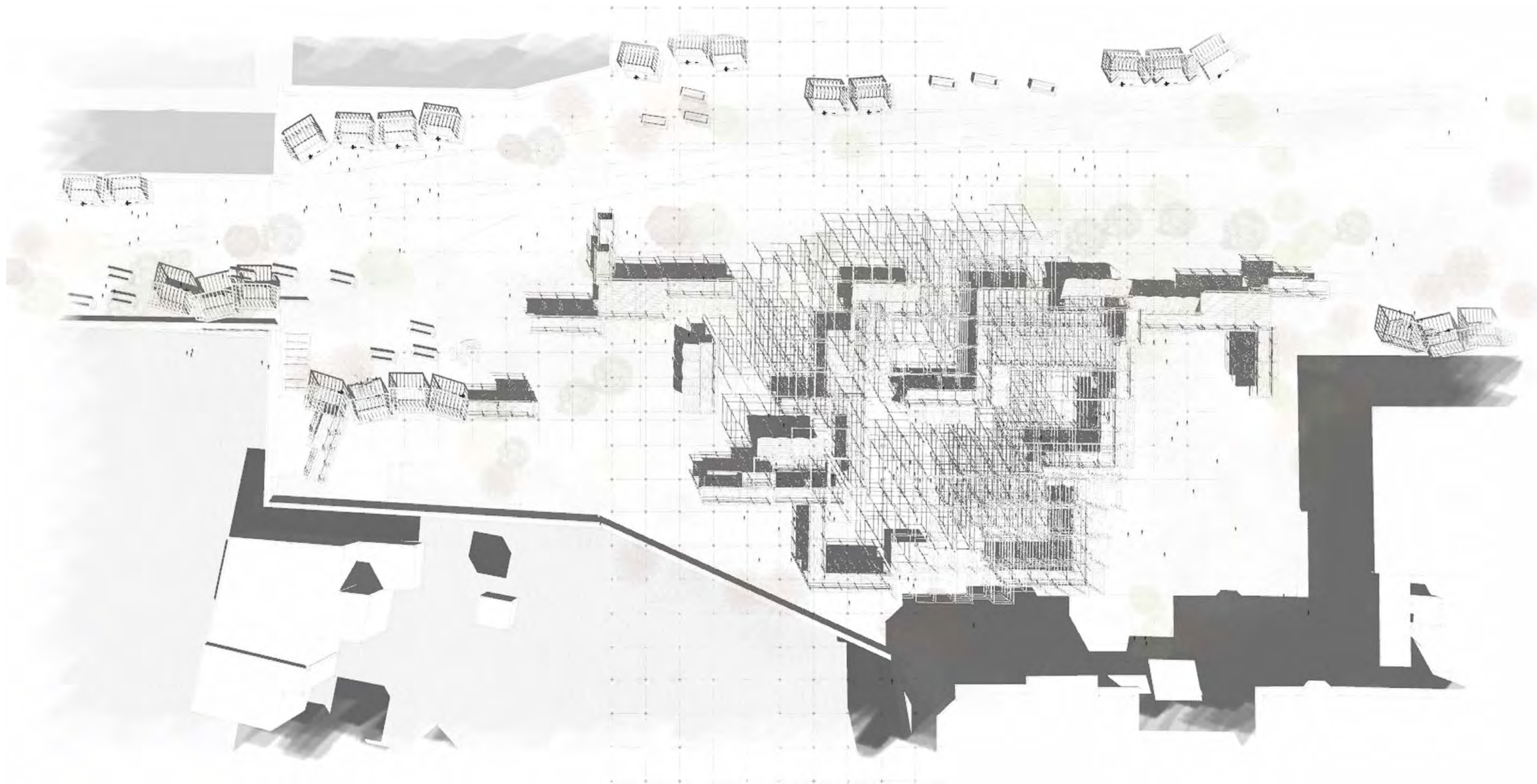Environmental Science Students
Field Botanist

Head of Horticulture
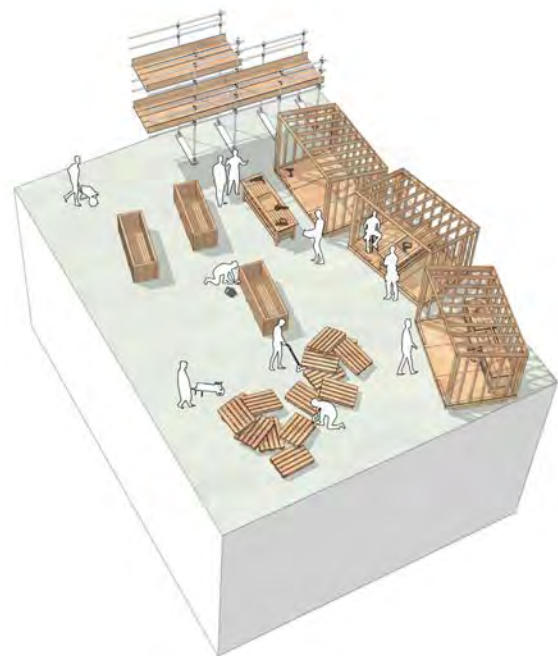
WORKSHOP

Local Burngreave Community
Wider Sheffield Civilians
Biotechnologist

Project Leader
the pavilion_

MIGRANT GARDEN

Local Burngreave Community
Field Botanist

Project Leader
migrant garden_

_THE PAVILION

20XX

As participative work accumulates and pods and kiosks are added, the pavilion evolves. This plan shows just one version of how it could transform in the future.

Previous spaces could be retained or removed, and replaced with an alternative space dependent on what the future requirements are.

This focus on random transformations goes through a physical and spatial relationship between machine and humankind. As there is limited digital component, an interaction is created purely from merging material movement and human movement.

THE SECTION

20XX

Over Your Cities Grass Will Grow dramatically transforms the section of Sheffield. The importance of this new section is to allow nature to reclaim its land which man-made intervention previously severed through. It is the hope that natural growth transfers to different layers in the hyper-local and wider contexts of the city. It becomes a thick landscape.

As such, the section deconstructs a previous political and socio-economic divide in the city to instead create a usable productive condition of public realm which connects city cultures, stimulates urban ecologies and increase quality of life for every citizen in the city.

THE EXISTING
sheffield victoria hotel

THE PAVILION
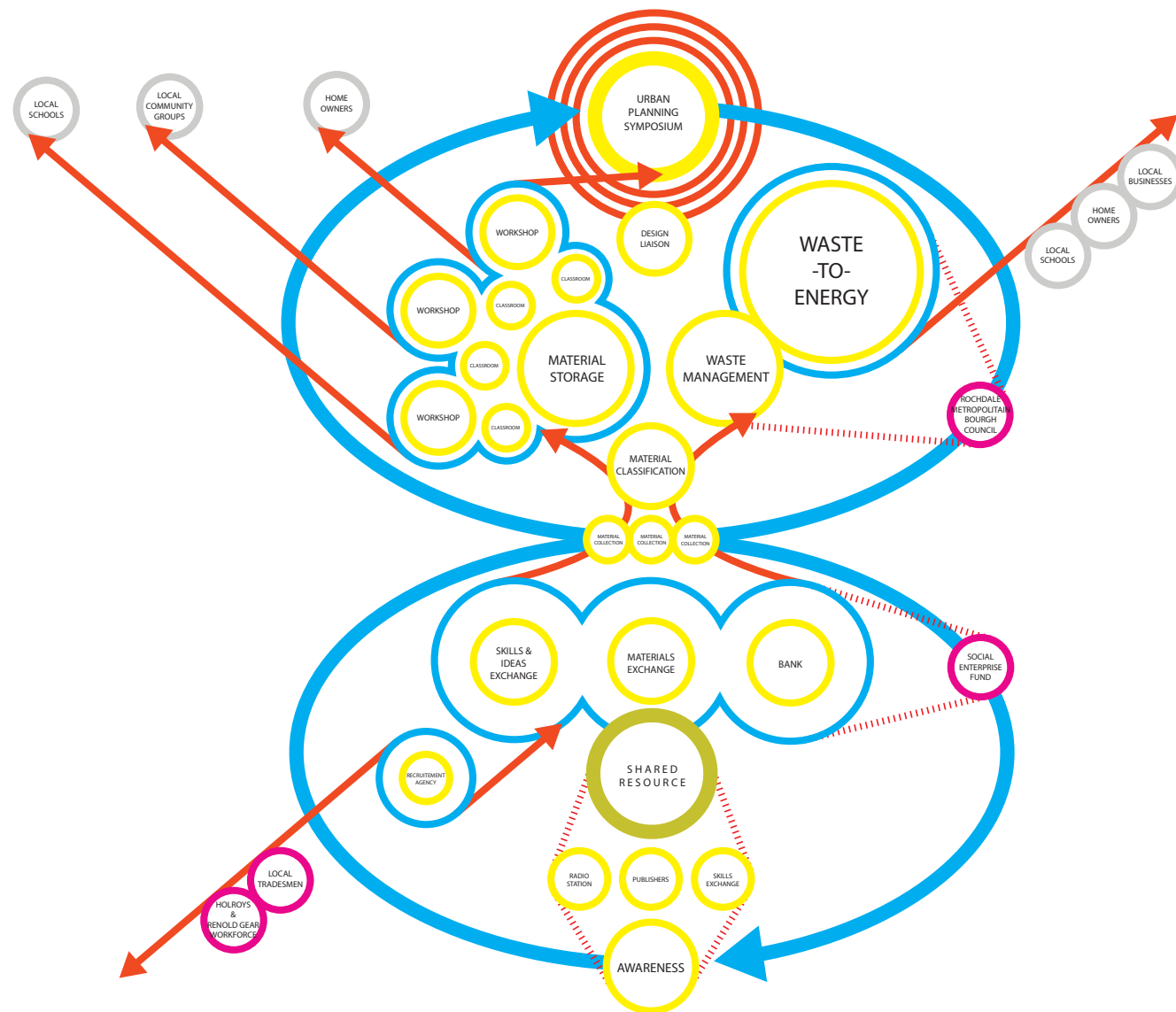*the central hub*
un-managed growth

PRODUCTIVE
workshops

PRODUCTIVE
managed growing area

URBAN-ECOLOGY
the migrant garden

SOUND

SCULPTURE

GROW

TOUCH

LOCAL SCHOOLS

LOCAL COMMUNITY GROUPS

HOME OWNERS

URBAN PLANNING SYMPOSIUM

LOCAL BUSINESSES

HOME OWNERS

LOCAL SCHOOLS

WORKSHOP

DESIGN LIAISON

WASTE -TO- ENERGY

WORKSHOP

CLASSROOM

MATERIAL STORAGE

WASTE MANAGEMENT

WORKSHOP

CLASSROOM

ROCHDALE METROPOLITAN BOURGH COUNCIL

MATERIAL CLASSIFICATION

MATERIAL COLLECTION   MATERIAL COLLECTION   MATERIAL COLLECTION

SKILLS & IDEAS EXCHANGE

MATERIALS EXCHANGE

BANK

SOCIAL ENTERPRISE FUND

RECRUITMENT AGENCY

SHARED RESOURCE

LOCAL TRADESMEN

HOLROYS & RENOLD GEAR WORKFORCE

RADIO STATION   PUBLISHERS   SKILLS EXCHANGE

AWARENESS

4.

5.

MANIFESTO FOR MILNROW

As local authority cuts loom over threatened public services throughout the UK, Rochdale is not alone. Its self imposed local authority targets are being missed across the board. To counteract this, £64m worth of savings has to be secured by Rochdale Metropolitan Borough Council over the next three years. As a result cuts to essential and widely used services are being made, despite emotional and well backed outcries from local groups.

This concerning issue provides the perfect opportunity for Milnrow to once again establish itself as a self reliant community. Through a process of devolution, the transfer of governing powers will be gifted back to the people of Milnrow. In an age where there is not enough money to go around, and minorities are left without, the removal of external agendas will enable local issues to be dealt with by locally minded people.

With the approval of this new local authority structure it is now up to the community of Milnrow to raise their expectation of themselves, take control and work together.

To enable Milnrow through this transition, a system of guiding principles must be put in place with an agenda of Open-Source firmly at its centre. New structures for the sharing of materials, education and skills, and ideas, as a way of forming new meaning full relationships will be formed. The collaborative efforts that are expressed as part of this system will enable residents to improve their individual quality of life, while also presenting them with the opportunity to take ownership of larger, Milnrow wide issues, of waste management, urban planning, future developments and town management.

This is in no way a reinstatement of the old council structure, but rather a redistribution of ownership to the people of Milnrow, instating them with a right to collectively and creatively influence the place where they live.

VERSION 1.0

This system advocates new procedures in the imagination and formation of real spaces within an inclusive infrastructure. This approach towards a collaborative use of social integration will manifest itself as a transparent operation throughout the course of an integrated public life. As such, this manifesto and any subsequent adopted system or programme is relative to collective change and adaptation by any user.

USER PROFILE

To develop the programme components beyond illustrative icons, I created a user profile to demonstrate how the component activities my manifest through the varying requirements of individual and collaborative working environments.
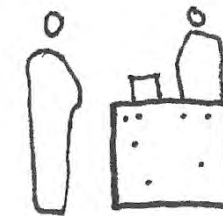
The user profile scenes depict a range of independent working and group based moments, as well as some break out activities, offering more social and recuperative environments.

This array of varying moments suggests a clear divide between the serious working environments and the more informal social spaces, but can these two kinds of space be brought together?
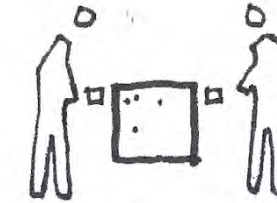
Here I have begun to develop a idea for a series of linked spaces. There is larger central point for congregating and networking, which is served by a series of smaller spaces where intimate groups can come together to develop ideas. Once ready these smaller groups can converge on the central space to present, share and exhibit proposals for the reuse of the donated materials.

FIG.6 ▶

Scenes depicting user profiles and assumed work spaces

FIG.7 ▶

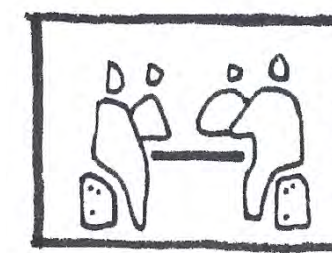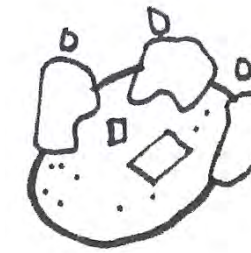Process work to developing work space combinations

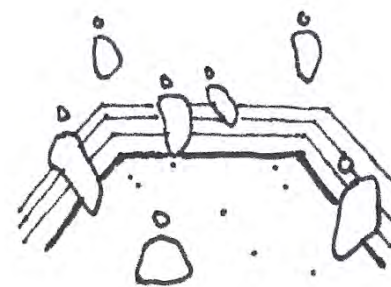RADIO STATION   CONSULTATION   SOCIAL   CHILL OUT

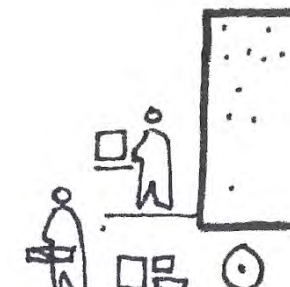INDIVIDUAL   MEETING   STUDY   SEMINAR

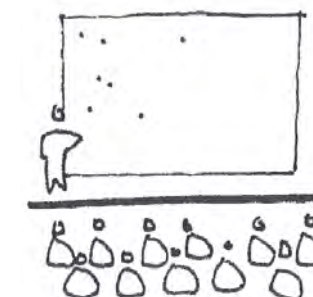FORUM   DEPOT   WAREHOUSE   WORKSHOP

6.

PEER TO PEER   LECTURE   DEMONSTRATION

OPTION 02 – ~~OPEN SITE~~ FRAMING THE ROUTE

NEW GREEN CORRIDOR.
· "LINE OF ADVENTURE"
· PREVIOUSLY MISSED SPACE OPENED UP FOR PUBLIC USE
· NEW LINKS TO GP / TRAM / INDUSTRY

EXHIBITION SPACE
· PUBLIC SPACE INTERVENTIONS EXHIBITED & TESTED.

ENTRANCE SPACE

CLASSROOMS & WORKSHOPS

EXCHANGE

MATERIALS STORE

PLANNING FORUM

1:1250 @ A3

PLANNING FORUM
PUBLIC ENTRANCE

MATERIALS STORE TO REAR OF SITE
· BUFFER TO BUSY ROAD & TRAM NETWORKS
· SHARED DELIVERY ACCESS WITH NEIGHBOURING INDUSTRIAL USERS.

SOUTH FACING CIVIC SPACE ADDRESSING WATER.
· GF SLAB OF OLD LADY HOUSE MILL PROVIDES HARD LANDSCAPING

URBAN FORUM ADOPTS PREVIOUS ALBERT'S MILL AS SPACE
· PERMEABILITY @ GROUND LEVEL

47.

35

Once the framework and courtyard concept was in place, a more rigorous development of the programme components was needed to develop the proposal further.

For this I conducted series of precedent studies around the different programme component uses in order to understand the reasonable area requirements for each space.
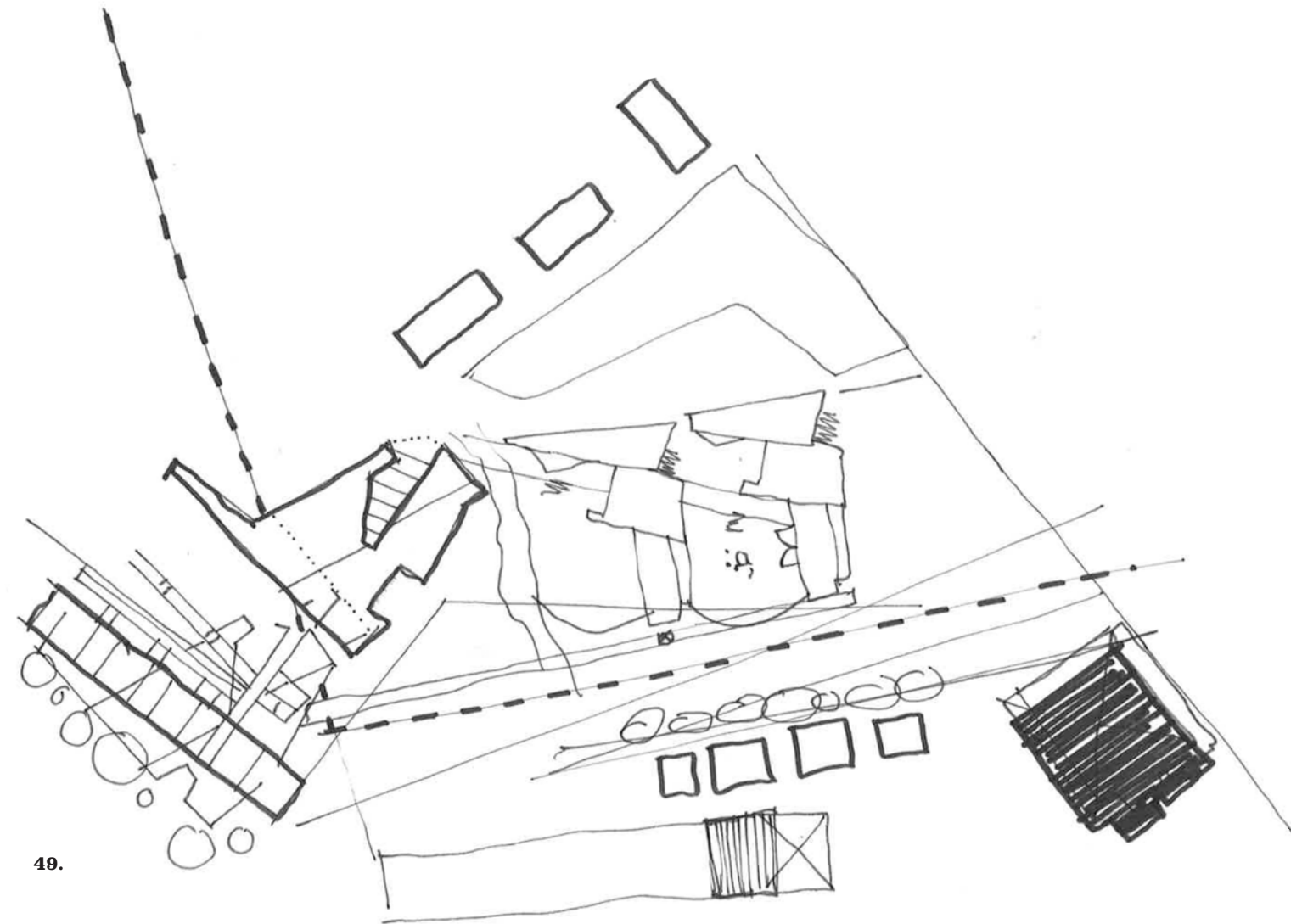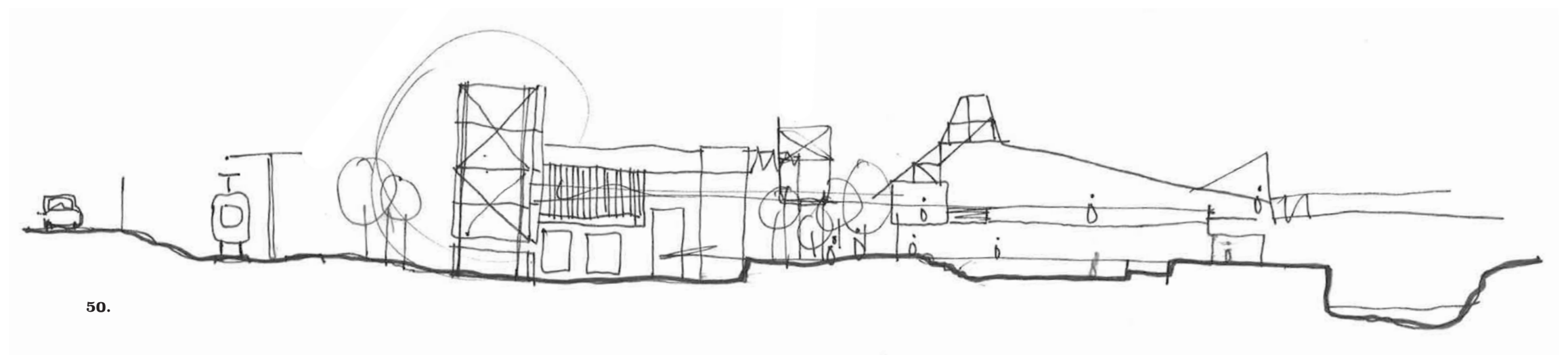

49.

FIG.49 ▶

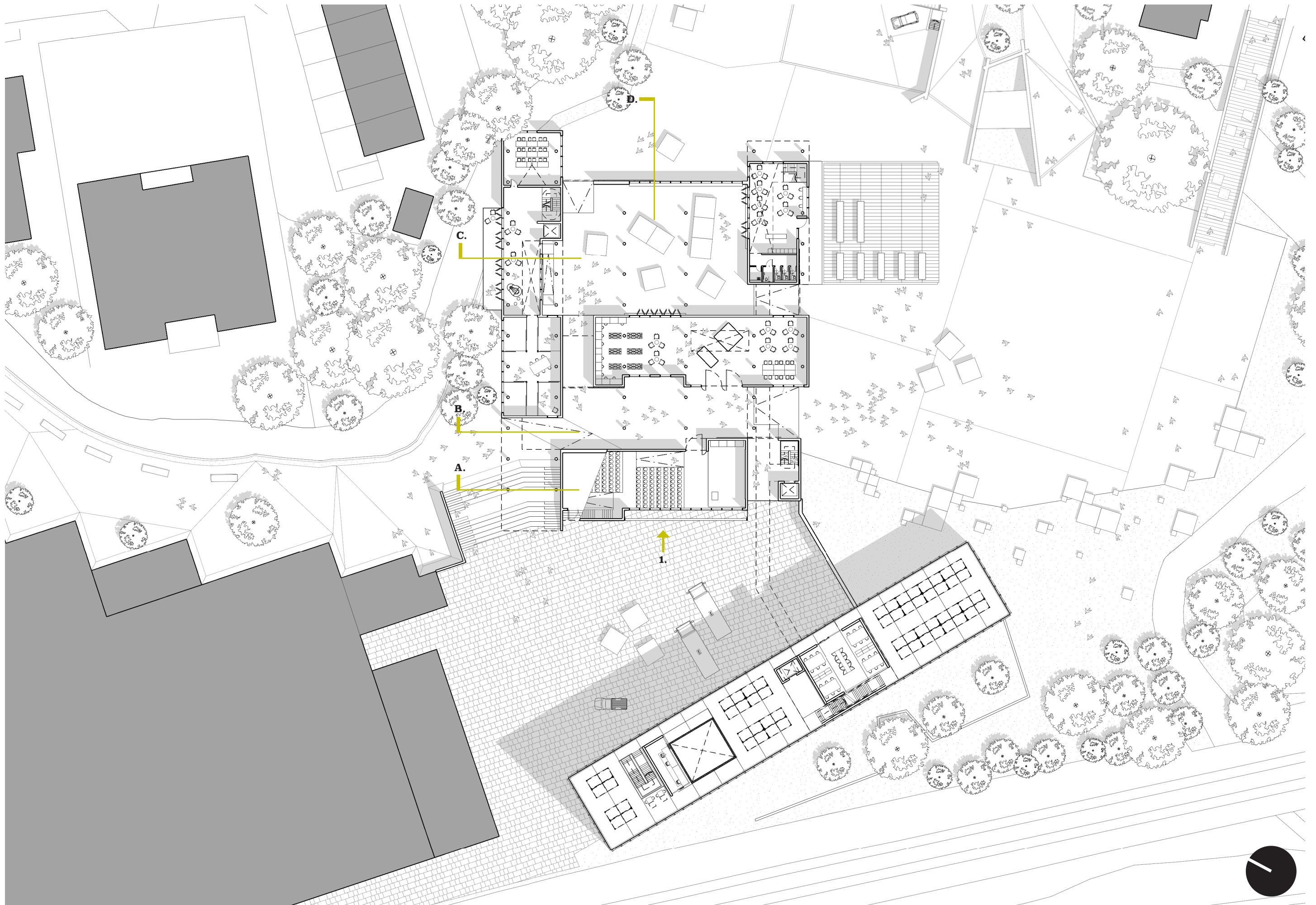Site option development sketch exploring the use of courtyards

FIG.50 ▶

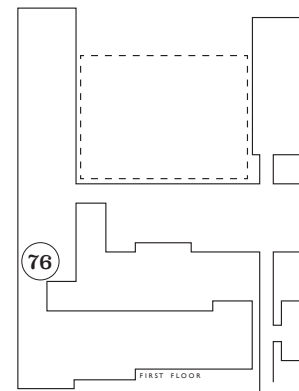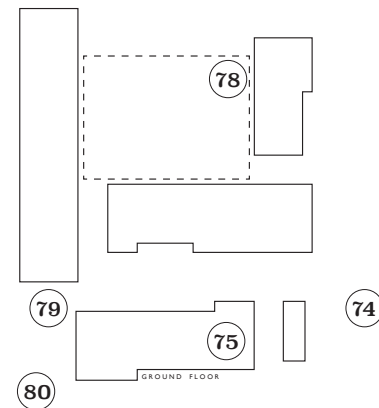Sketch section through Materials Archive, delivery yard and Exchange

FIG.51 ▶

Developed courtyard site option with programme component areas

50.

59.

SCENES

74.

These scenes have been arranged to describe how the main spaces in the building flow from one to another, inviting exploration and integration of all the users.

The main entrance off the new civic space offers views into the delivery yard and across the materials archive. Once inside the, internal street is connected to the exhibition space where presentations, demonstrations and performances are held to showcase the work being produced in the building. To the rear of this space a First floor link bridge offers elevated views of exhibition space, as well as external perspectives of the delivery yard and the green corridor to the rear of the building. The collaboration space is then accessed by ascending through the classroom wing from the link bridge. This the busiest part of the building, reforms itself daily, with users constantly adapting their self organised space to suit new challenges and projects. Back on the internal street, this bustling thoroughfare sees people bringing their unwanted goods and skills for exchanging with others. Upon exiting the rear of the building access is granted down to the delivery yard via a terraced seating area, and on to the green corridor for walks along the River Beal.

FIG.74 ▶

View approaching main entrance to Street, overlooking the delivery yard

FIG.75 ▶

Scene depicting a demonstration activity in the exhibition area

FIG.76 ▶

View across the first floor link bridge between the classroom wing and the observation space

FIG.77 ▶

Detail sketch study of the reclaimed timber rafters used along the link bridge

75.

FIG.78 ▶

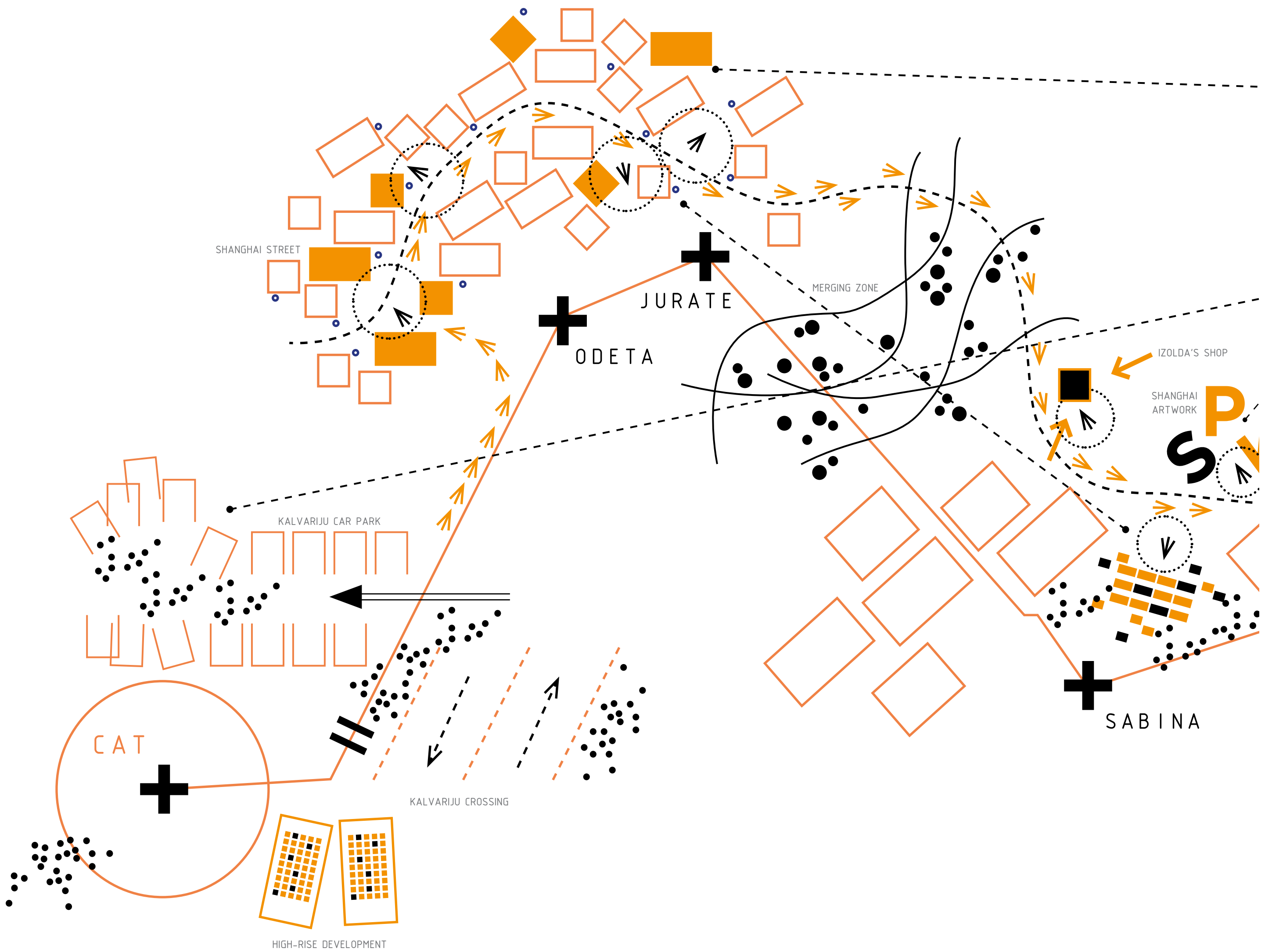View of the collaboration space with work space modules being constructed

FIG.79 ▶

Street scene with collaborators bringing materials and skills to exchange

FIG.80 ▶

View of delivery yard in full operation

78.

SHANGHAI STREET

JURATE

ODETA

MERGING ZONE

IZOLDA'S SHOP

SHANGHAI
ARTWORK

KALVARIJU CAR PARK

CAT

KALVARIJU CROSSING

SABINA

HIGH-RISE DEVELOPMENT

SPONTANEOUS EXPLORATION

FOCUSED EXPLORATION
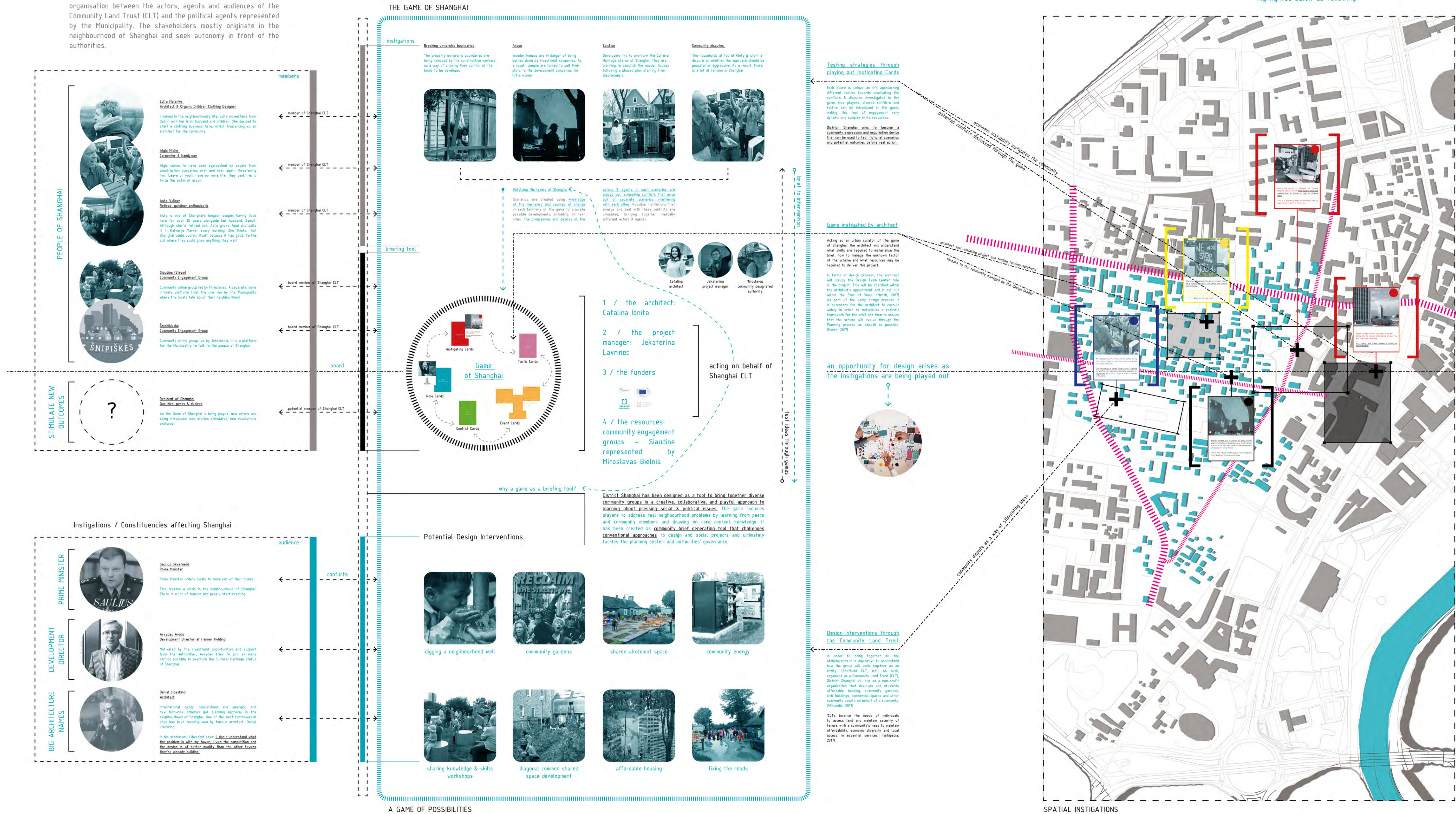
SOCIAL POLITICAL ASSEMBLAGE

District Shanghai's social-political assemblage is the system of organisation between the actors, agents and audiences of the Community Land Trust (CLT) and the political agents represented by the Municipality. The stakeholders mostly originate in the neighbourhood of Shanghai and seek autonomy in front of the authorities.

MOTIVATION

This thesis project has emerged from a personal interest in the development of infrastructures of autonomy in urban environments and how diverse socio-political scenarios can impact their evolution.

INTERVENTIONS

As an outcome, each intervention is unique and evolves from the tactics the players tackle throughout the game. The tactics, all recorded in the game log book, become briefs for design interventions. Some of the most played ones are highlighted below as following:

PEOPLE OF SHANGHAI

Edita Malenko
Architect & Organic Children Clothing Designer

member of Shanghai CLT

Algis Mielo
Carpenter & handyman

member of Shanghai CLT

Asta Volkov
Retired, gardener enthusiastic

member of Shanghai CLT

Giaudine (Straw)
Community Engagement Group

board member of Shanghai CLT

Šnipiškiai
Community Engagement Group

board member of Shanghai CLT

members

STIMULATE NEW OUTCOMES

?

Resident of Shanghai
Qualities, parts & desires

As the Game of Shanghai is being played, new actors are being introduced, new stories stimulated, new resolutions explored.

potential member of Shanghai CLT

board

THE GAME OF SHANGHAI

instigations   brief to intervention

Breaking ownership boundaries
The property ownership boundaries are being redrawn by the construction workers, as a way of showing their control of the lands to be developed.

Arson
Wooden houses are in danger of being burned down by investment companies. As a result, people are forced to sell their plots to the development companies for little money.

Eviction
Developers try to overturn the Cultural Heritage status of Shanghai. They are planning to demolish the wooden houses following a phased plan starting from Giedraičių s.

Community disputes
The households at top of Kinty g. start a dispute on whether the approach should be peaceful or aggressive. As a result, there is a lot of tension in Shanghai.

briefing tool

Game of Shanghai
- Instigating Cards
- Tactic Cards
- Rule Cards
- Conflict Cards
- Event Cards

1 / the architect: Catalina Ionita

2 / the project manager: Jekaterina Lavrinec

3 / the funders

4 / the resources: community engagement groups – Siaudine represented by Miroslavas Bielnis

acting on behalf of Shanghai CLT

Catalina architect   Jekaterina project manager   Miroslavas community designated authority

why a game as a briefing tool?

District Shanghai has been designed as a tool to bring together diverse community groups in a creative, collaborative, and playful approach to learning about pressing social & political issues. The game requires players to address real neighbourhood problems by learning from peers and community members and drawing on core content knowledge. It has been created as community brief generating tool that challenges conventional approaches to design and social projects and ultimately tackles the planning system and authorities' governance.

Potential Design Interventions

- digging a neighbourhood well
- community gardens
- shared allotment space
- community energy
- sharing knowledge & skills workshops
- diagonal common shared space development
- affordable housing
- fixing the roads

Instigations / Constituencies affecting Shanghai

PRIME MINISTER
Saulius Skvernelis
Prime Minister

Prime Minister orders locals to move out of their homes.
This creates a crisis in the neighbourhood of Shanghai. There is a lot of tension and people start reacting.

conflicts

DEVELOPMENT DIRECTOR
Arvydas Avulis
Development Director at Hanner Holding

Motivated by the investment opportunities and support from the authorities, Arvydas tries to pull as many strings possible to overturn the Cultural Heritage status of Shanghai.

BIG ARCHITECTURE NAMES
Daniel Libeskind
Architect

International design competitions are emerging, and new high-rise schemes get planning approval in the neighbourhood of Shanghai. One of the most controversial ones has been recently won by famous architect Daniel Libeskind.

In his statement, Libeskind says: "I don't understand what the problem is with my tower. I won the competition and the design is of better quality than the other towers they're already building."

audience

INTERVENTIONS (right)

Testing strategies through playing out Instigating Cards

Each board is unique as it's approaching different tactics towards escalating the conflicts & disputes investigated in the game. How players, diverse conflicts and tactics can be introduced in the game, making this tool of engagement very dynamic and complex in its resources.

District Shanghai aims to become a community expression and negotiation device that can be used to host fictional scenarios and potential outcomes before real action.

Game instigated by architect

Acting as an urban curator of the game of Shanghai, the architect will understand what skills are required to materialise the brief, how to manage the unknown factor of the scheme and what resources may be required to deliver this project.

an opportunity for design arises as the instigations are being played out

Design interventions through the Community Land Trust

'CLTs balance the needs of individuals to access land and maintain security of tenure with a community's need to maintain affordability, economic diversity and local access to essential services.' (Wikipedia, 2019)

A GAME OF POSSIBILITIES

SPATIAL INSTIGATIONS

1. Bench prototype (made of reclaimed timber)

2. Allotment prototype using the unused commonhold spaces. An opportunity for the families in immediate vicinity to grow organic food.

3. Greenhouse prototype (to be used for testing sensitive crops)

4. Water well prototype (to be used as an initial water infrastructure measure)

5. Garden shed prototype

6. Energy pod; As an initiative from The Laboratory of Critical Urbanism, this pod has been developed using community batteries which aim to provide the necessary energy for the neighbourhood.

7. Storage pod; Place to keep materials for the local craftsmen and artists, as well as equipment for the local nursery.

8. Individual pod; Opportunity for local makers / craft artists to hire studio space at neighbourhood rates.

9. Local businesses pods; Opportunity for small businesses to hire affordable space in the newly refurbished garages. There is a large variety with businesses varying from artisan galleries and boutique shops to bistros, sandwich shops and groceries shops.

10. Soup pod (to be used for daily home-cooked meals for the residents of Shanghai)

11. Veggie cart (to be used to provide fresh products to the residents of Shanghai who can't commute)

PROTOCOL 7

PROTOTYPES & URBAN DEVICES / GARDEN AT KALTANENY G. STREET

Cluster of prototypes emphasizing the core theme of the project, infrastructure as an ecology. Activating the unused commonhold space such as the derelict land at Kaltaneny g. has allowed for social interaction and opportunities for dialogue.

1. Allotment prototype using the unused commonhold spaces. An opportunity for the families in immediate vicinity to grow organic food.

2. Garden shed prototype

3. Housing prototype

4. Storage pod; Place to keep materials for the local craftsmen and artists, as well as equipment for the local nursery.

5. Energy pod; As an initiative from The Laboratory of Critical Urbanism, this pod has been developed using community batteries which aim to provide the necessary energy for the neighbourhood.

6. Shading device

7. Solar panels

8. Suspended garden

9. Improved road infrastructure

10. Bench prototype (made of reclaimed timber)

Dear Jana,
I have been thinking about you and Dan lately. I wanted to invite you to our neighbourhood's Streetfood Festival this weekend. Marija is cooking her famous soup!

PROTOCOL 7

PROTOTYPES & URBAN DEVICES / SMALL ECOLOGY CLUSTER AT KINTY G.

Asta, Community Gardener: Rufus, you better not run through my spring onions. They are going to be ready next week, just in time for the Shanghai Streetfood Festival. The kids will be so happy.

Silvia, Childminder: It lovely to see the corn crops growing so well. The kids did a brilliant job last week.

I'll ask Malina to make them corn on cob on Friday. They'll love it!

PROTOCOL 7.4
NURSERY + LAUNDRETTE PROTOTYPE

A sunny day at Nendre Nursery & Community Laundrette. The pupils are about to come outside for a lesson on how to grow radishes and celery with community gardener, Asta.
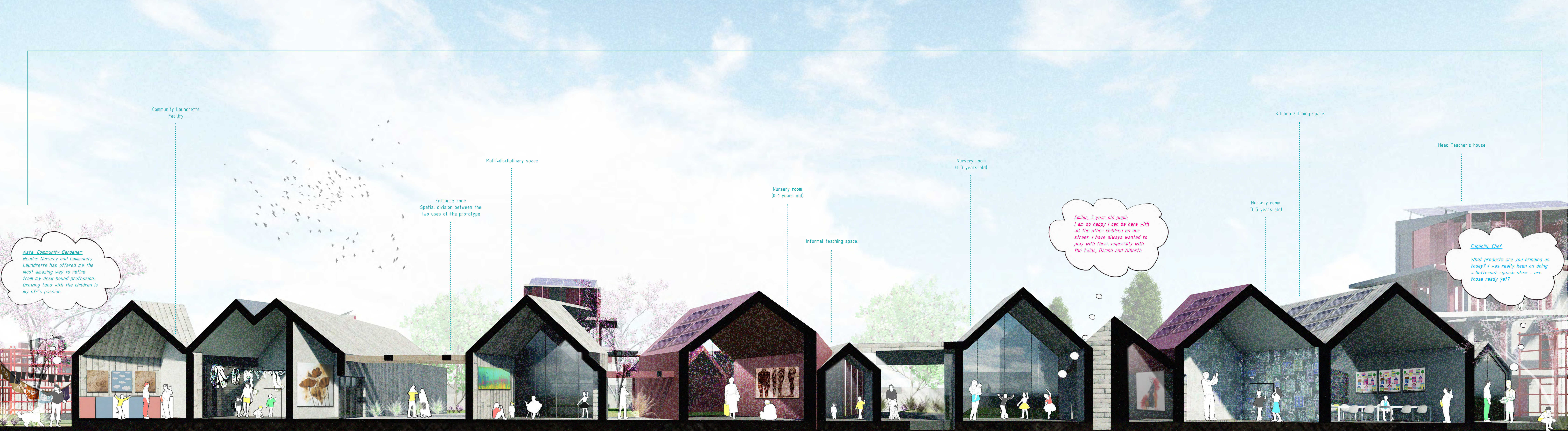
Community Laundrette
Facility

Multi-discliplinary space

Entrance zone
Spatial division between the
two uses of the prototype

Nursery room
(0-1 years old)

Informal teaching space

Nursery room
(1-3 years old)

Kitchen / Dining space

Head Teacher's house

Nursery room
(3-5 years old)

Asta, Community Gardener:
Nendre Nursery and Community
Laundrette has offered me the
most amazing way to retire
from my desk bound profession.
Growing food with the children is
my life's passion.

Emilija, 5 year old pupil:
I am so happy I can be here with
all the other children on our
street. I have always wanted to
play with them, especially with
the twins, Darina and Alberta.

Eugenijus, Chef:
What products are you bringing us
today? I was really keen on doing
a butternut squash stew - are
those ready yet?

PROTOCOL 7.4

NURSERY + LAUNDRETTE PROTOTYPE

BRIEF HISTORY INTO BRUSSELS POLITICS & FRAGMENTATION
UNDERSTANDING THE POLITICAL CLIMATE & TENSIONS IN THE CURRENT CLIMATE

For someone visiting or driving in Brussels, the city appears to be a seamless urban area without boundaries. Although they differ in architecture and population and may look like separate towns or even villages, the visitor still feels that they belong to one city. In reality however, Brussels, with a total population of 1.2 million inhabitants, is divided into 19 municipalities or communes with populations ranging from about 20,000 to over 170,000.

The government of each municipality is responsible for the handling of local level duties, such as law enforcement and the upkeep of schools and roads within its borders. Municipal administration is also conducted by a mayor, a council, and an executive.

In recent years and months, Brussels institutions have been accused of being poorly managed, a source of financial waste and in need of urgent reforms. Among these institutions, the 19 municipalities of the Brussels Region are the main targets.

The cause of these issues can stem from many factors, however one constant issue is the tension between the large number of political leaders within the highly populated area. Terms such as 'passing the book' and 'pointing the finger' can be seen croping up in various texts describing the issues within the political situation of Brussels

Clashing of views and legislation amongst the separate council heads of their respected municipalities...

The 19 municipalities Brussels is divided up into ...

Jette
Brussels
Ganshoren
Evere
Berchem Sainte-Agathe
Koekelberg
Schaarbeek
Molenbeek
Woluwe-Saint-Lambert
Anderlecht
Saint-Gilles
Etterbeek
Woluwe-Saint-Pierre
Ixelles Elsene
Forest
Auderghem
Uccel
Watermael Boitsfort
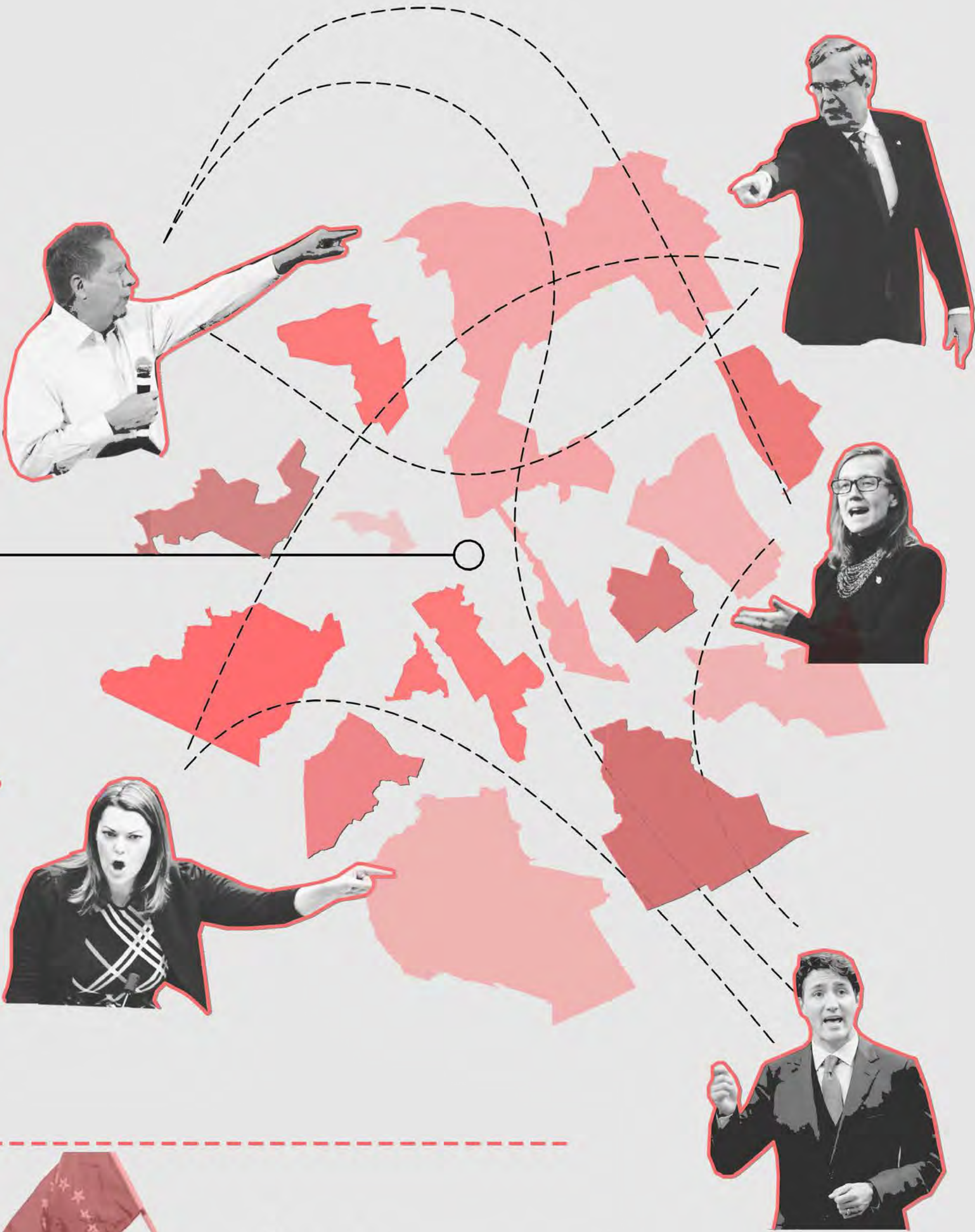
As the **home** of European politics, Brussels is the city that best exemplifies European political life. Accessible from all corners of Europe, the city is steeped in political pedigree and long-standing historical traditions

EXISTING SCENARIO IN POLITICS

THESIS PROPOSAL & SCENARIO OUTLINE
KEY STAGES AND CONCEPTS RUNNING THROUGH THE PROJECT

With the existing narrative embedded within Brussels concerning the issues regarding water pollution, including political failures and lack of responsibility and action, the main thesis of the project is to unite agencies who's main ideologies and ambitions align. Through the cross pollination with the members of varied organizations involved, the project will stage and build a series of interventions which will not only help to sustainably tackle the environmental issues but expose through various medium such as performance, debates and events, the political failures they are collectively passionate about. It will also create an initiative that will help support similar groups around Brussels who may need it, supplying biomaterials for interventions around the city.

Proposed Initiatives

Brussels Mycelium Initiative.

HORS DE LA FORET

Existing Agents

THEATRE DE POCHE BRUXELLES

POOL IS COOL
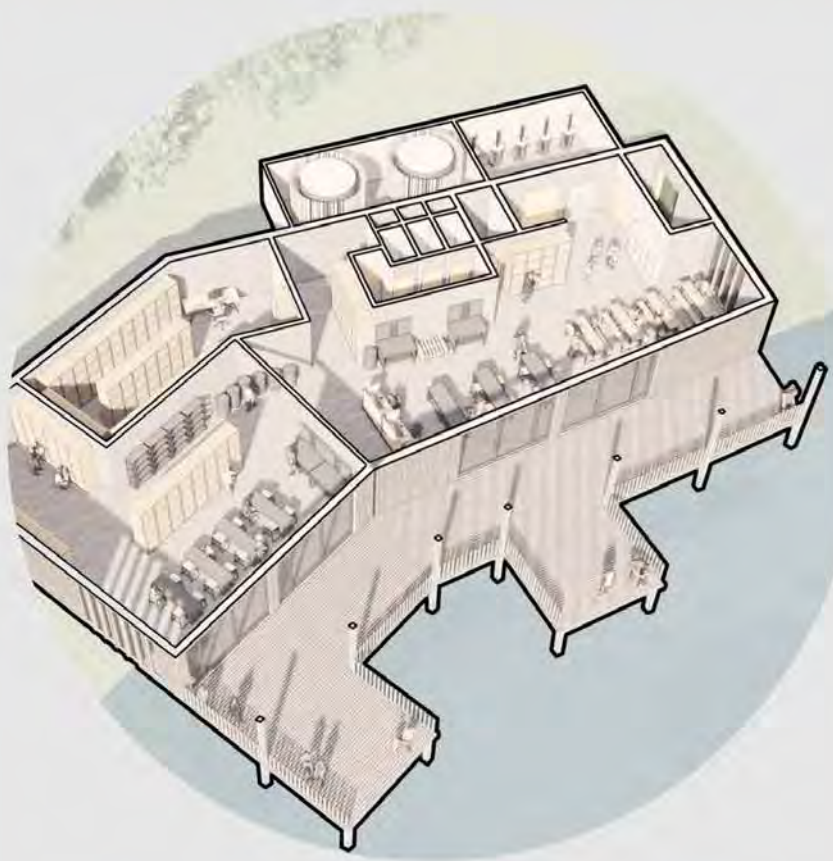
Brussels mycelium initiative workshop & Research Centre

The first phase of the project is the construction of workshop facilities where the production of the 'Mycelium Filter bags' will take place, which will be placed around the lake in the problem areas concerning pollution. Once the bags have gone beyond use, they are then reused as compost for reeds in the lakebed to further clean the water. This will re-open the lake for leisure usage, a prominant issues surrounding Brussels is their lack of these outdoor swimming facilities.

At this stage in the project the initiative will be set up with the help of the architect, not only on the design of the building but the assimilation of the various organizations which will be involved. This is achieved by facilitating the platform for the agents taking part, who share the same ambitions in tackling environmental issues and exposing political failures, as a result various lines of dialog/relationships begin to form.

Brussels Mycelium initiative Theatre & Workshop

The second phase of the project will start with be the expansion of phase one, developing larger facilities including a higher spec workshop and more 'Grow Lockers' for the 'Mycelium Filter Bags'. The building will also be used by the local theatre within the park who specialize tackling in political/ social issues through performance.

The concept of encouraging cross-pollination of the various actors and agents involved will be embedded in the design, creating spaces of overlap surrounding the mix-use/ multi purpose building. The space will also be used for public debate regarding various political and environmental issues within Brussles.

Another initiative/ sister project is set up within the workshop wil be named 'Hors de la Forret', translating into 'Out of the Woods'. This collective of individuals will be made up of actors from the various agencies involved. They will produce/manufacture Mycelium construction materials to be used in interventions around Brussels to benefit the groups involved. This will lead onto the next phase.

'POOL IS COOL' Main Facility

With the Lake in the 'Bois de la Cambre' now rid of the pollution due to the use of the filtration bags and planted reed beds from the Brussels Mycelium Initiative, the sister Project 'Hors de la foret' work with 'Pool is Cool', an initiative who push for more outdoors swimming facilities in Brussels, to construct their first project.

With the need for changing facilities and showers now needed within the urban park, pool is cool work with both initiatives to design the new building. The materials, where possible, will be grown and manufactured within the workshops of the BMI Theatre. The design of the building will push for the use of eco-friendly methods and processes, seen in the resulting build. The harvested water will be filtered through the BMI sacks ready for use in the various ammenties the building facilitates.
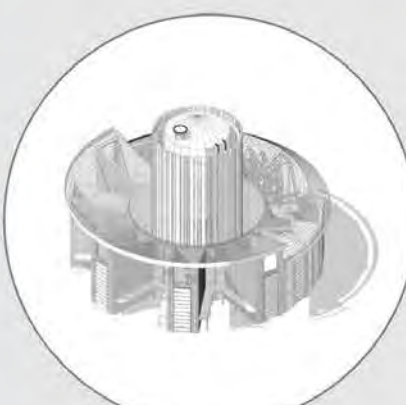
'POOL IS COOL' & 'Hors de la Foret' Pairing project

'Hors de la Foret' now pair with 'Pool is Cool' and design and manufacture a small environmentally sustainable facility, which essentially can be constructed anywhere. With the nature of 'Pool is cool' events being ephemeral in essence, the design of the building with be tailored to the idea that the process to build is relatively quick and easy. The materials for this interventions will be grown and produced in the workshops of the BMI Theatre and will be erected at various locations neighboring water around Brussels.

SECTION THROUGH CENTRE OF BMI THEARTRE & WORKSHOP
KEY AGENTS (ESTABLISHED & NEW) USING THE MULTI PURPOSE BUILDING
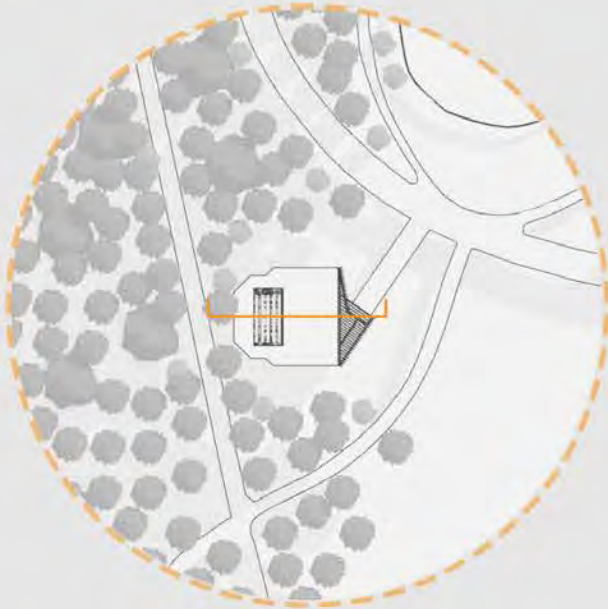
This Key section through the B.M.I Theatre & workshop shows the multi-purpose building at a peak time being occupied by all the agencies involved with the initiative. As seen in plan and on the section key to the left, the location of the building is just off the edge of the woodland to the south of the Lake in the Bois de la Cambre, also just off an existing road which runs through the urban park. The Theatre/ political debate space is sunk into the topography, creating an element of secrecy within the architecture, inspired by the sub culture the Theatre de poche have worked to create through their daring political performances.

The numerous steps in level surrounding the Theatre/ Debate space is a design concept implicated to foreshadow a new democratised area for political discussions, their is no hierachy to the space and everyones imput is welcome. These debates are both held by Pool is Cool and Theatre de Poche.

THEATRE DE POCHE BRUXELLES

POOL IS COOL

Brussels Mycelium Initiative.

'POOL IS COOL' HOSTING A POLITICAL DEBATE REGUARDING WATER POLLUTION

The view also demonstrates the variety of key agents now working together participaing in events/ debates.

Member of Theatre de Poche, heard about the debate through attending a perfomance held within the B.M.I by Theatre de poche.

Visitors who are in the B.M.I Theatre, accidental or planned are free to sit in on the discussion

Volunteer from Brussels Mycelium Initiative Phase I

The Architect

The scene above shows 'Pool is Cool' hosting an open debate within the multi-purpose space, the people attending are made up of members from the collective agencies such as Pool is Cool, Theatre de Poche, The Brussels Mycelium initiative, but also a few visitors who decided to sit in and contribute to the discussion. Members of the Brussels Mycelium Initiative can see/ hear the discussions while tending to the grow lockers that clad the internal wall of the performance/ debate space.

Debate initiated by...

Louisa
P.I.C

Alex
Architect

Ronald
Theatre de Poche

DISASSEMBLY OF THE FACILITY - LAYERING COMPONENTS

The bespoke nature of this building and its purpose - diagrams to break down the construction elements & reasoning

1.
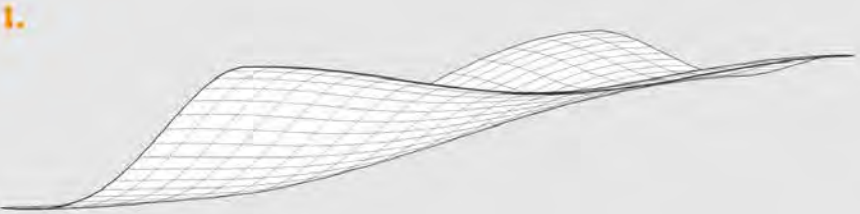
EPDM Membrane - a roofing membrane made out of synthetic rubber

EPDM roofing membrane has an extremely long lifespan and is able to stand up against years of inclement weather, thermal cycling, and extreme UV exposure. It can also stay flexible at hot or cold temperatures. It will also withstand high winds

2.
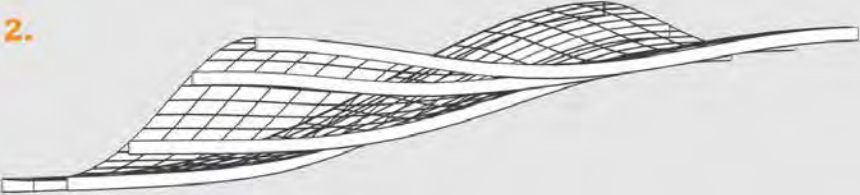
EPDM Membrane ontop of bespoke wire mesh

The water proof membrane will be laid over a wire mesh which has been laid and shaped to the form the desired shape

3.
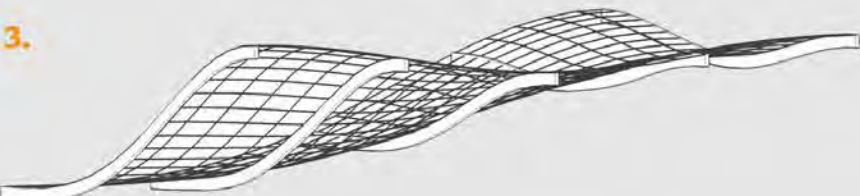
Formed Mesh onto CNC cut/jointed trusses

With the purchase of a CNC Machine in the Hors de la Foret workshop, the intricate design of this water harvesting roof, conjured by the architect and Louisa from POOL IS COOL will print these sloping trusses.

4.
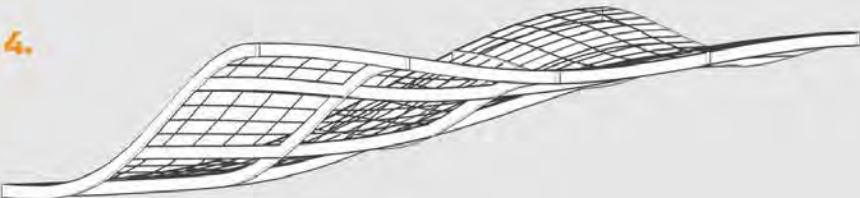
Cross bracing Trusses

Shown in stages 1 & 2 (left) the intricate trusses will be made up of 2 elements, which when fitted together create stronger bond, allowing the following substraes to be applied over the top evenly.

5.
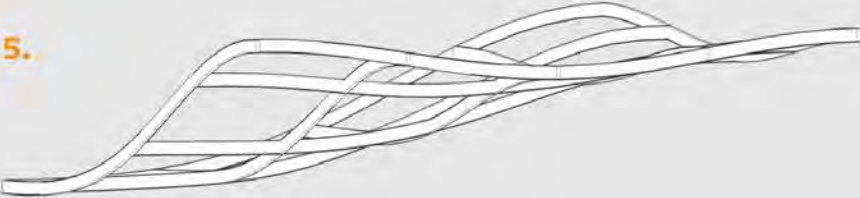
The concept to the Design

The purpose of this roof is to harvest as much water as fast as possible. While this would be accomplised with a standard mono pitch with a gutter, the efficency of this design allows the building to take advantage of when the inevitable rain fall does pour, leading the water to a pump which will be forced through plumbing connected to the top of the large water tank in the centre of the building.

The harvested water will be filtered through the use of the Myco-filtration sack produced within the Phase 1 Brussels Mycelium initiative, providing the facility with water to an almost drinking standard. The water will be used for the shower and W/C amenities with a pipe connecting to the lake incase of possible draughts ready to be pumped and cleaned
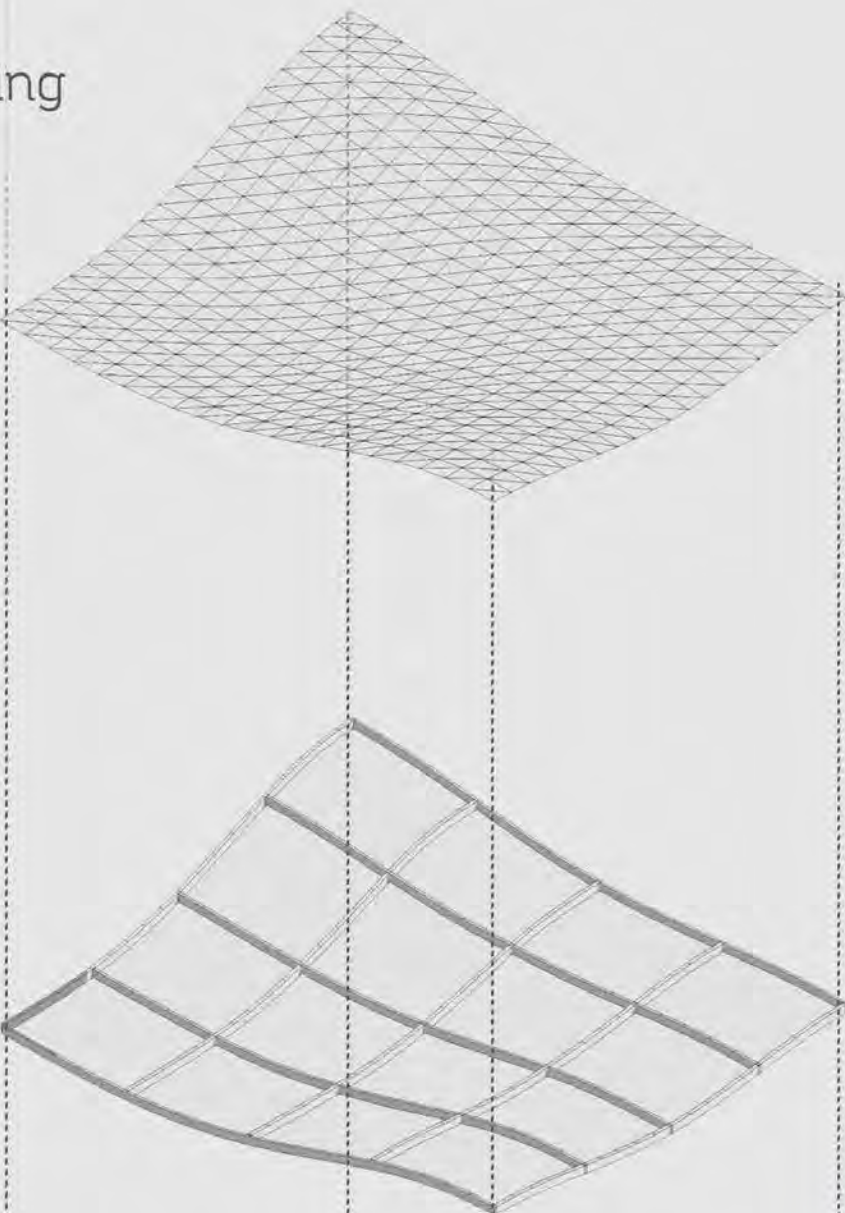
The Mycelium pannels grown by the Hors de la Foret initiative will be used to clad the external facaed of the facilities.

That along with locally sourced 'Larch' timber clad, to keep the same language as the previous two interventions, to blend into the immediate context.

Mycelium gorwn within the B.M.I workshops in Phase 2

Tanalised Timber (Larch) between mycelium panneling

Locally Sourced Larch timber cladding
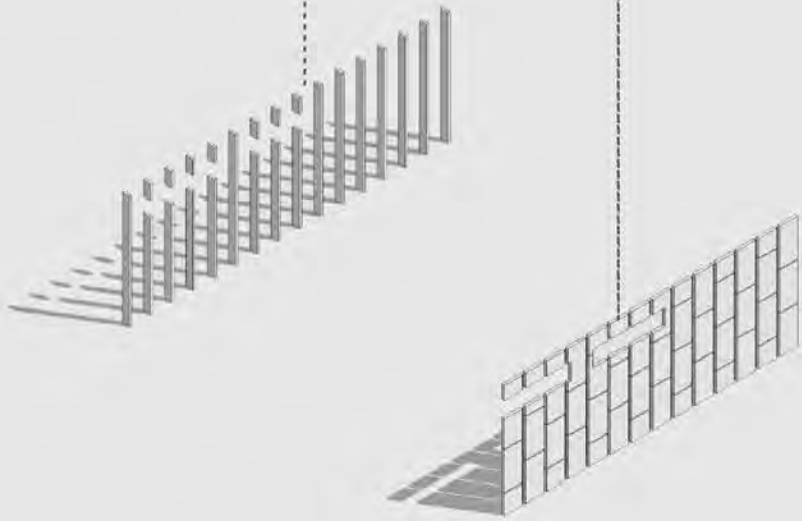
COLLABORATIVE DESIGN BETWEEN ARCHITECT AND AGENTS
POOL IS COOL, WITH SUPPORT FROM HORS DE LA FORET & THE B.M.I

The design of this Phase would be a collaboration between Loiusa of Pool is Cool, who is also through cross-pollination of Phase 2 involved with the new initiative 'Hors de la Foret'.
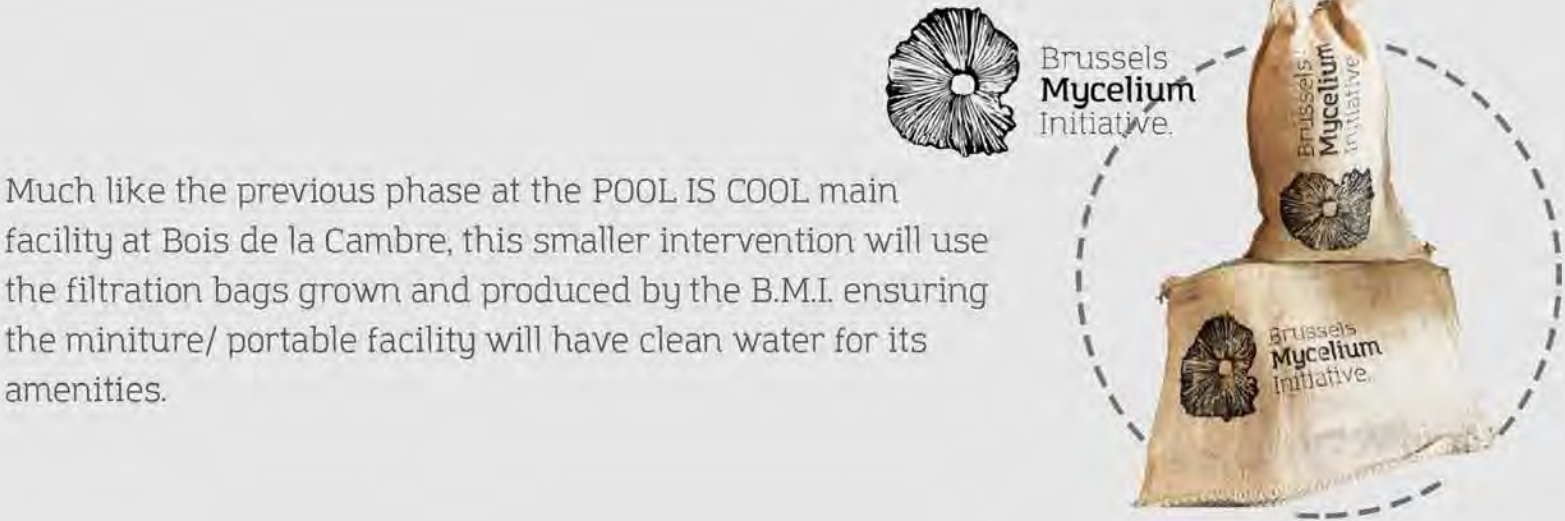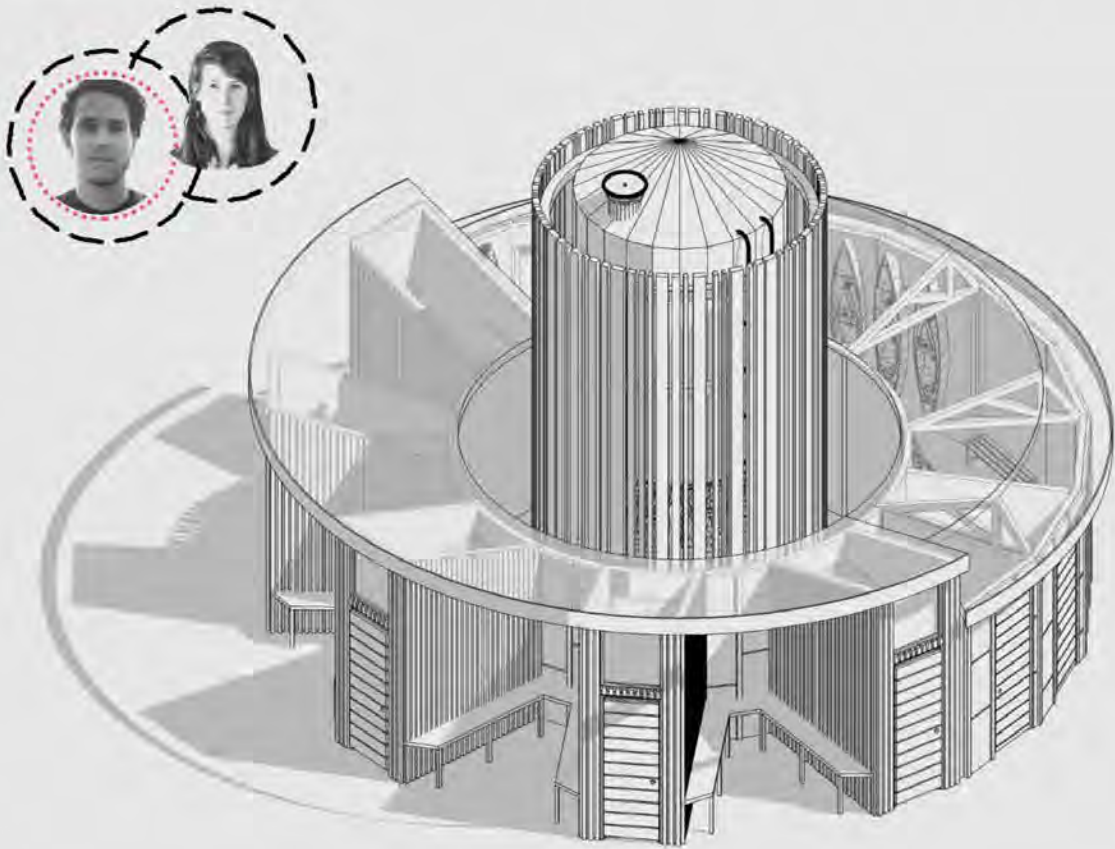

Much like the previous phase at the POOL IS COOL main facility at Bois de la Cambre, this smaller intervention will use the filtration bags grown and produced by the B.M.I. ensuring the miniture/ portable facility will have clean water for its amenities.

Much like the previous phase at the POOL IS COOL main facility at Bois de la Cambre, where possible the materials used will be Mycelium, grown within the workshop of the Phase 2 building. Lousia, a member of POOL IS COOL, is a founding member of the 'Hors de la Foret' initiative.
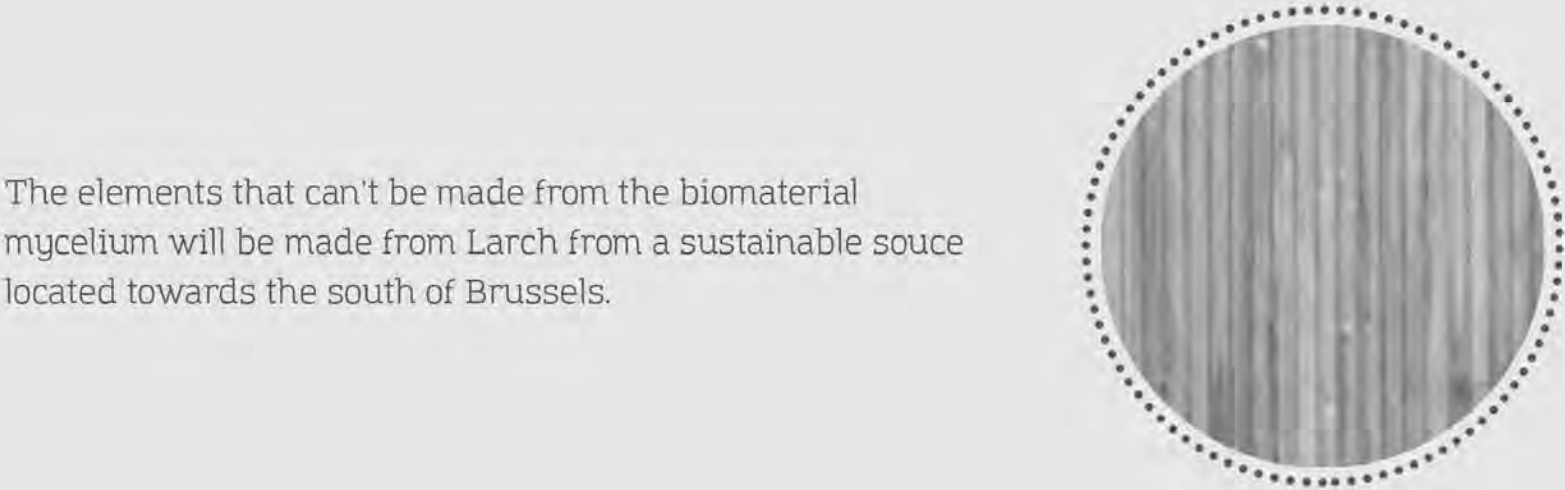
The elements that can't be made from the biomaterial mycelium will be made from Larch from a sustainable souce located towards the south of Brussels.
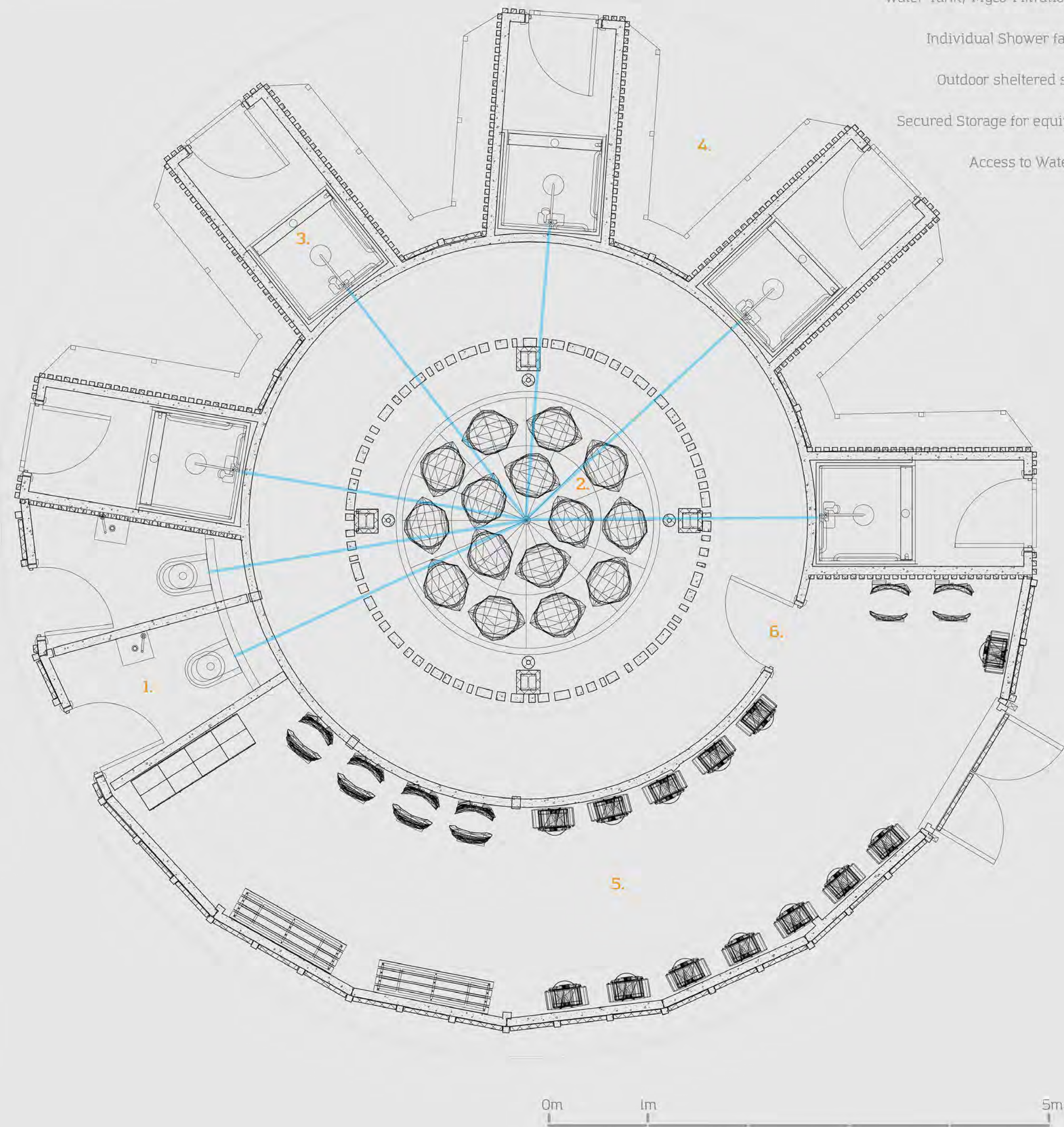
0m   1m   5m

SECTION THROUGH THE 'POOL IS COOL' INTERVENTION WITHIN URBAN SETTING

The idea of this intervention is that it can take place at numerous locations around Brussels, starting in the Anderlecht Canal

Mycelium Panneling grown manufactured within the Worjshop of the B.M.I. processed by Hors de la Foret

Stardard Timber Studding

Timber Trusses Made in workshop via Hors de la Foret

The same EPDM membrane to be used on the roof to drain to guttering then pumped into the water Tank

POOL IS COOL
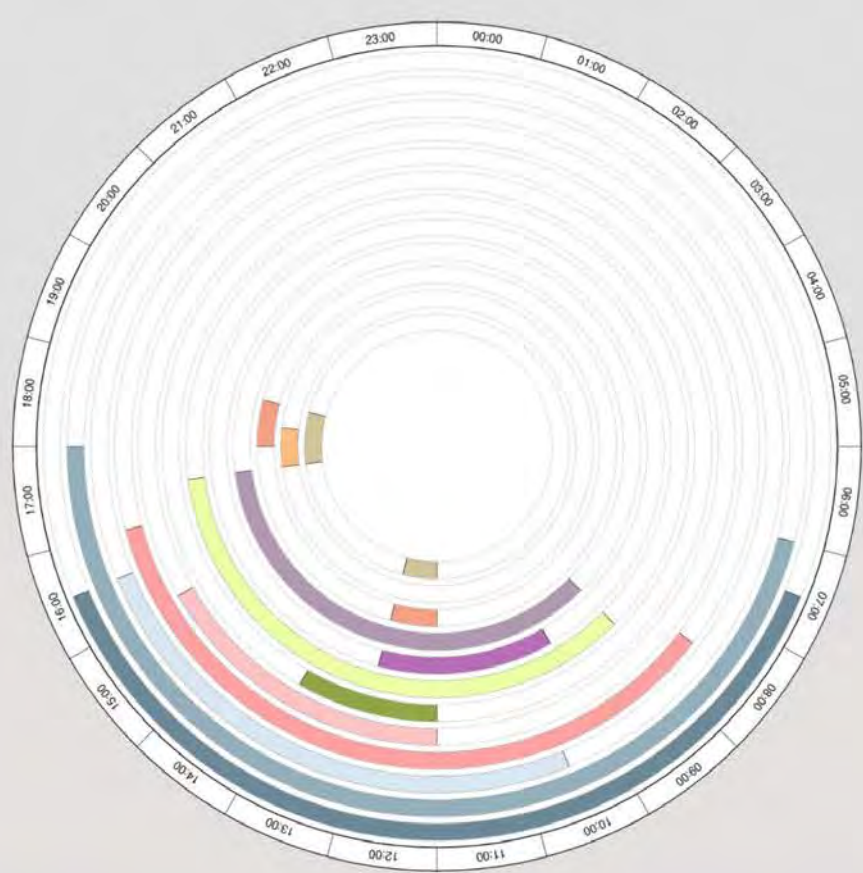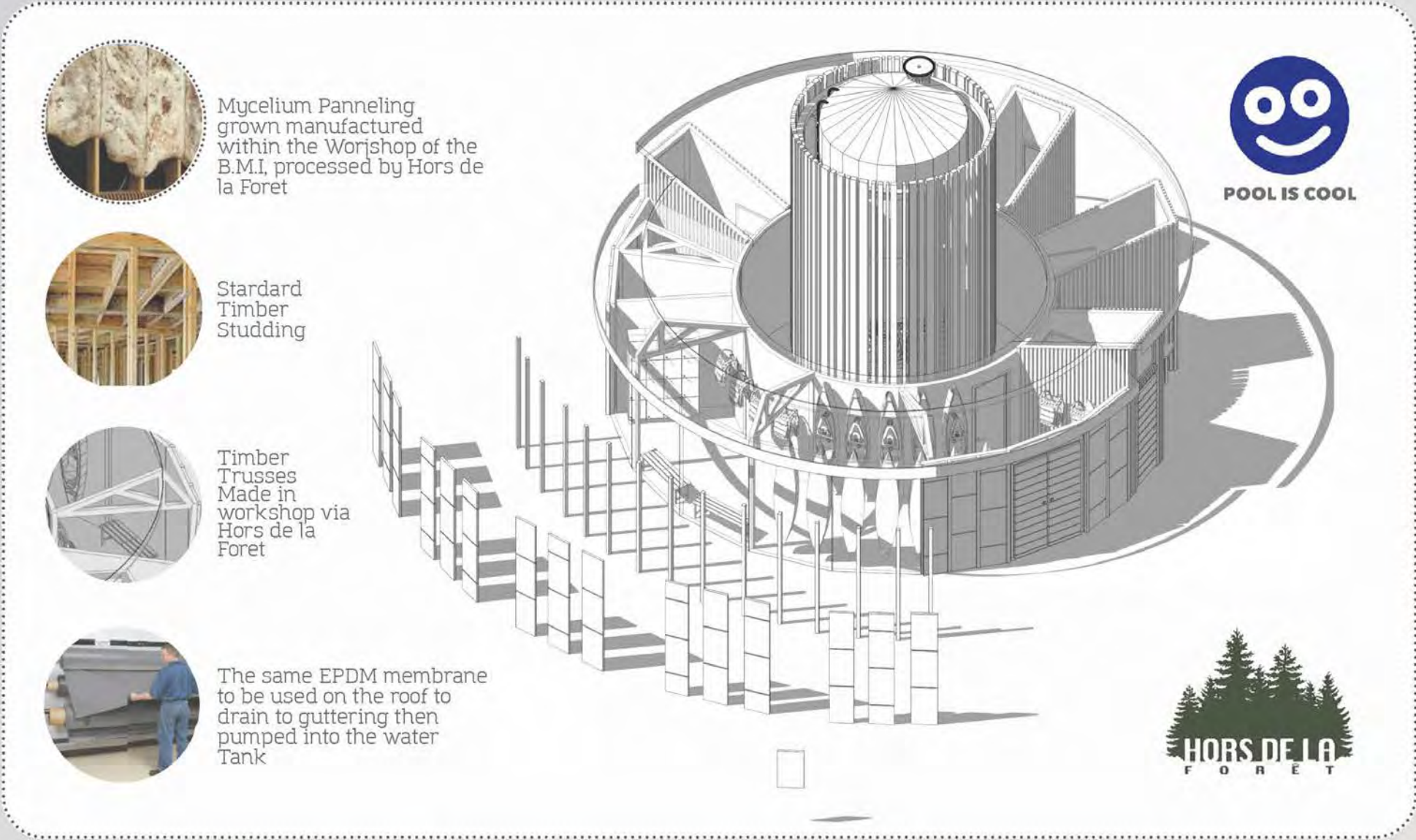
HORS DE LA FORÊT

Week Day Availability
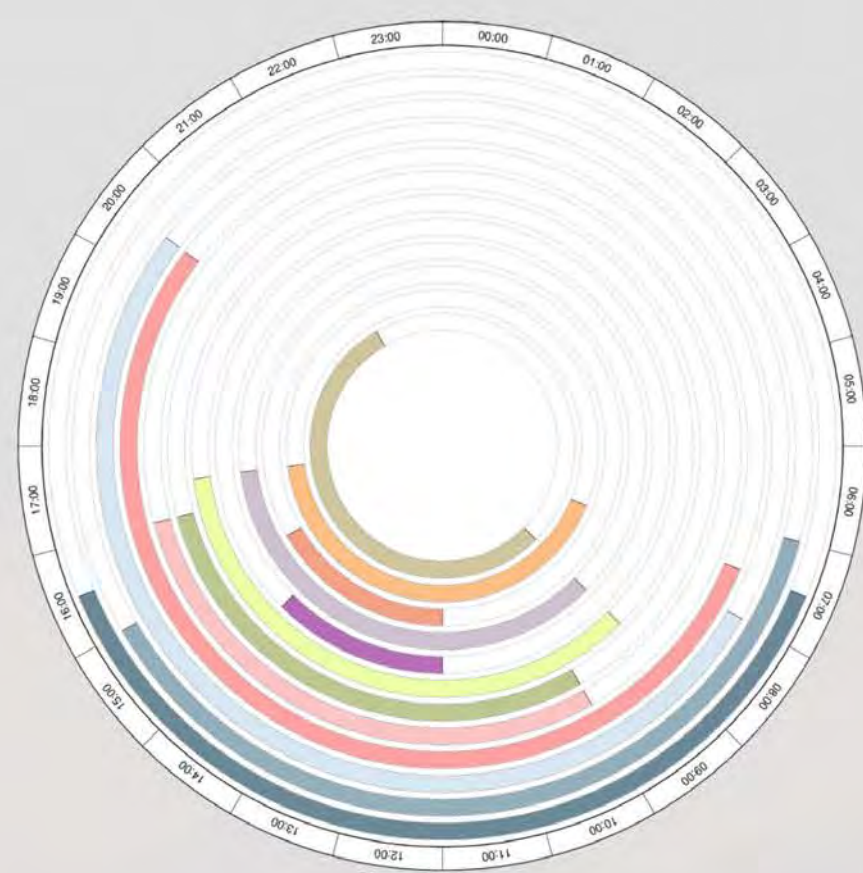
Weekend Availability

	Contractors
	Architect
	Theatre De Poche Staff
	Neil - Key Figure at Theatre DP
	Karren - Pool is Cool
	Pool is cool members
	Brussles Mycelium Initiative
	Mike from City Mined
	Hors de La Foret Members
	Acting Students from BRUS Uni
	Protesters /Activists
	Bryyy Skate Members

With the design by the architect and Louisa of POOL IS COOL having the ability to be disassembled into manageable components and stored away, the Small structure will be easier to transport from Site to Site. The ephemeral nature of the build also requires participation from the Agencies involved, meaning that the users essential build the intervention when needed for Events. The time graphs shown to the top right demonstrate the availability, varying from weekdays to working days accordingly.

The B.M.I are still supporting the initiative, producing the Myco Filtration bags for the facility
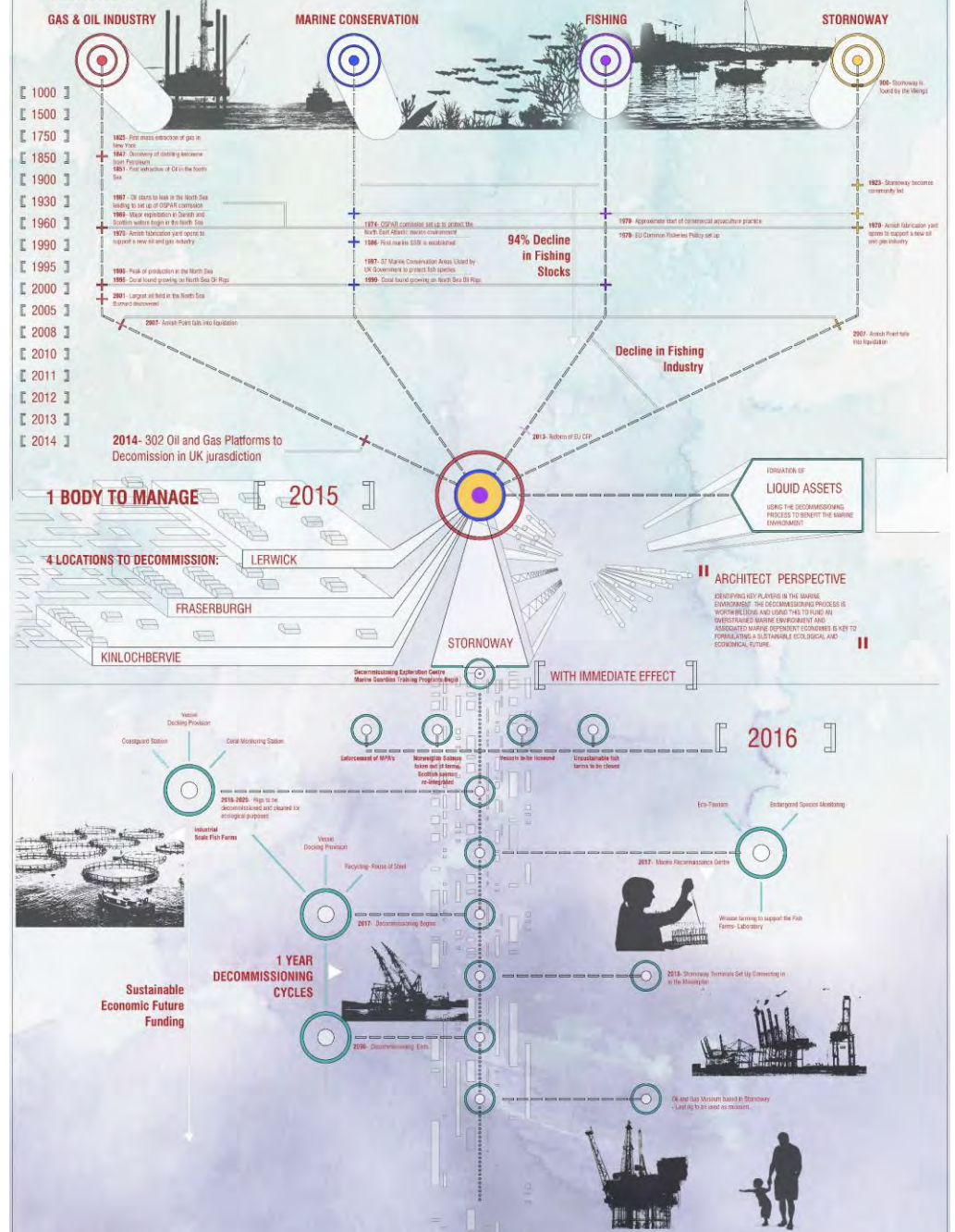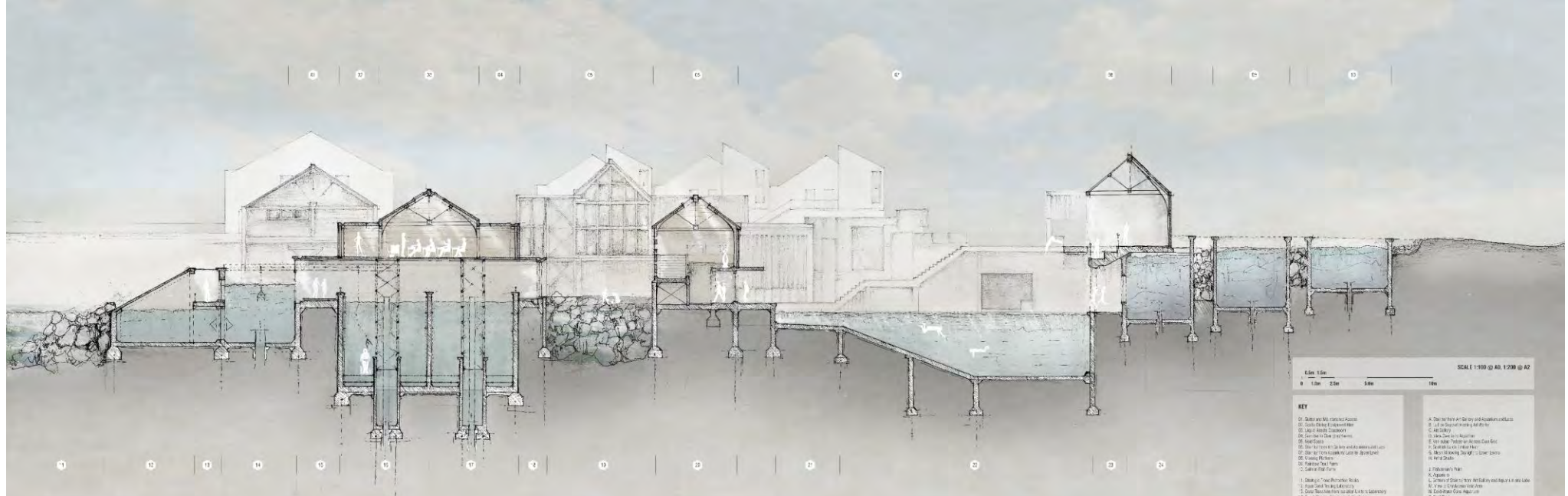
Brussels **Mycelium** Initiative.

PROPOSED SCENARIO: LIQUID ASSETS CONSORTIUM

UTILISING THE DECOMMISSIONING PROCESS TO COMPENSATE THE MARINE ENVIRONMENT & ECONOMY

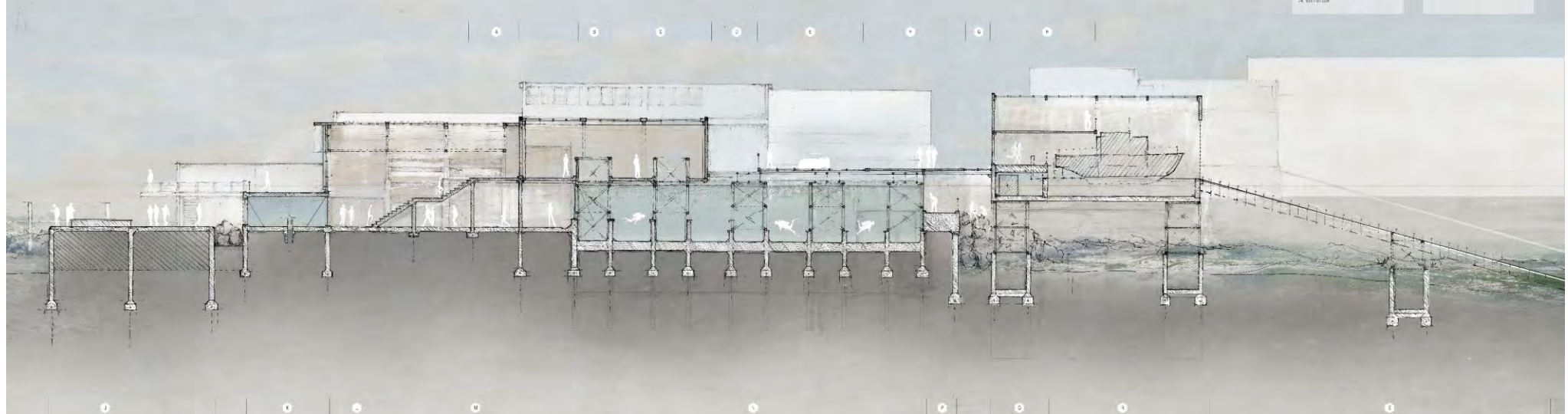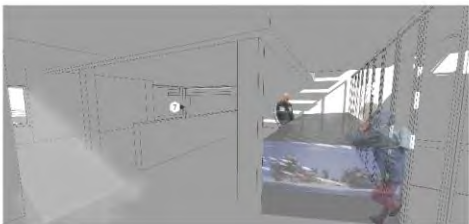### RIG DECOMMISSIONING
BOARD:

Apache (APACHE CORPORATION)
(BP)
(DECON NORTH SEA)

"The decommissioning of the UK Continental Shelf is a major engineering challenge. It will be expensive, take many years and must be carried out with great care to protect the environment. It also represents a significant opportunity for UK industry."

DR ALAN WALKER, ROYAL ACADEMY OF ENGINEERING

LINK TO MARINE CONSERVATION

LINK TO FISHING INDUSTRY

LINK TO FISHING TOWNS

MARINE CONSERVATION
BOARD:

marine [MCS]

OSPAR COMMISSION (OSPAR COMMISSION)

"We know more about the moon than we do about our oceans."

DR. JEAN-LUC SOLANDT, MCS

FISHING
BOARD:

(OUTER HEBRIDES FISHERIES TRUST)
(IFGs)
[SCOTTISH INSHORE FISHERIES GROUP]
SEAFISH [SEAFISH]
[SALMON FISHERY BOARD]

"When aquaculture came 30 years ago no one knew what they were doing. Now we have to implement standards to prevent disease and control development species."

KEN COLLIER, SENIOR BIOLOGIST OUTER HEBRIDES FISHERIES TRUST

FISHING TOWNS
BOARD:

[ISLE OF LEWIS AND HARRIS COUNCIL]
[LERWICK, FRASERBURGH & KINLOCHBERVIE COUNCILS]
[SCOTTISH NATURAL HERITAGE]

"Young people do leave the island for better opportunities on the mainland but they miss the tranquility and beauty and always come back."

RESIDENT STORNOWAY

"The Scottish Government would like to see an increase in fish farms by 50%. It is hard to refuse the Application because of the Government's views."

MARK McDONALD, SCOTTISH NATURAL HERITAGE

ARCHITECT'S PERSPECTIVE

CONSORTIUM:

| ENABLER & FINANCER | ENABLER & FINANCER | PROJECT MANAGER | WESTERN ISLES COUNCIL | PLANNING L.A. | ADVISORS HERITAGE | ADVISORS AQUACULTURE | ADVISORS INSHORE FISHING | ADVISORS FINANCE DISTRIBUTION | ADVISORS ENVIRONMENT | ADVISORS ATLANTIC |

BP · Apache · D · Western Isles · Scotland · Scottish Natural Heritage · (IFGs) · marine · OSPAR COMMISSION

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4 ENTITIES:

GAS & OIL INDUSTRY · MARINE CONSERVATION · FISHING · STORNOWAY

1000 · 1500 · 1750 · 1850 · 1900 · 1930 · 1960 · 1990 · 1995 · 2000 · 2005 · 2008 · 2010 · 2011 · 2012 · 2013 · 2014

94% Decline in Fishing Stocks

Decline in Fishing Industry

2014- 302 Oil and Gas Platforms to Decommission in UK jurisdiction

FORMATION OF LIQUID ASSETS
USING THE DECOMMISSIONING PROCESS TO BENEFIT THE MARINE ENVIRONMENT

1 BODY TO MANAGE   2015

4 LOCATIONS TO DECOMMISSION:
LERWICK
FRASERBURGH
KINLOCHBERVIE
STORNOWAY

WITH IMMEDIATE EFFECT

ARCHITECT PERSPECTIVE

2016

Sustainable Economic Future Funding

1 YEAR DECOMMISSIONING CYCLES

DESCRIPTION

SCULPTED/ KNITTED IN TO THE LAND

SCALE 1:100 @ A0, 1:200 @ A2

SECTION A-A
1:100 @ A0 , 1:200 @ A2

SECTION B-B
1:100 @ A0 , 1:200 @ A2

Passing through interactive intertidal aquariums and the underwater café that views the marine environment on the edge. The void draws daylight down to the site ice aquarium area.
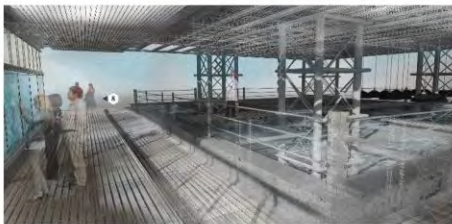
Passing through the deepwater feeling facility with aquarium in background.

1:50 Structural / Concept Model

This model highlights the structure and relationship to the landscape. On top is the Coastguard Operation Centre which takes the form of the pitched roof. This is supported by six timber structure, shown at lower level that form the structure. The model shows experimentation of which is the timber structure and the other a concrete structure at lower level. At the section from the higher level and settles at lower level such as the vertical louvres. The philosophy is to understand a soft contrast between light and lightweight materials.

Initial sketch

EXPOSURE
LIGHT
SHELTER
HEAVY
ACCESS
AQUARIUM ——— WALKWAY

Walking past the space on toward the rock pools. The Operation Centre above offers protection from the elements.

CASE STUDY: NORD ARCHITECTURE
SHINGLE HOUSE

Passing the rock pools adjacent to the Coastguard courthouses.

Walking through the aquarium - glimpses of the below structures the coral will be growing on.

Coming full circle back to under the slide with the countdown square on to the right.

Entering the schatle passing the outdoor pool. At the top of the slide to the main water space.

WHAT A DIVE!!
ON 3! 1! 2! TAILS!
NO BOMBING!
BOMB!! SPLASH!
FREEEZING!

THE FISH FARM AND EDUCATIONAL EXPERIENCE MAKE THIS DESIRABLE FOR EDUCATIONAL GROUPS. THE OUTDOOR POOL & FISHING OPPORTUNITIES WE ALSO DRAW PEOPLE IN

WADDING PAST SAMPLE FISH FARMS WE VISIT INSIDE UNDERGROUND ADVENTURES

Visit Scotland

Up to the realm theatrical morion space space. Tourists can use the café and watch the fleet in here. At the end has the terminal to Arnish Point

WAVE SCULPTURE

Wave defences like this make route to Arnish Point. A series of sculptures and benches are fixed in to the shore groad wall. The terminal is much like the rest of the development with large concrete plinths to protect against flooding will weather protected bronze cladding to the remainder of the development.

BREAKWATER INSTITUTE ON GOAT ISLAND
AXONOMETRIC

1. TERMINAL TO ARNISH POINT OIL RIG PARK & MUSEUM
2. WAVE DEFENSE FOR THEATRE/ MARKET
3. THEATRE / MARKET SPACE
4. FISH RESTAURANT / COOKING SCHOOL
5. OUTSIDE BAR
6. GREEN ROOM / THEATRE MARKET PREPERATION BELOW PUBLIC REALM
7. CAFE
8. RETAINED GOAT ISLAND ACCESS ROAD
9. LARGE COASTGUARD BOATHOUSE WITH CHANGING FACILITIES
10. SMALL COASTGUARD BOATHOUSES
11. STUDIO MEZZANINES OVER BOATHOUSES
12. WRASSE TESTING & BREEDING TANKS

13. LIQUID ASSETS OPERATIONS CENTRE
14. GALLERY & RECEPTION
15. CLASSROOM/ SCUBA DIVING HIRE
16. STAIR TO AQUARIUM & LABORATORIES
17. EXEMPLAR FISH FARM
18. VIEWING GALLERY
19. SCUBA DIVING LESSONS/ DIVING & SWIMMING POOL
20. AQUACULTURE INDUSTRY LEADING FISH FARMS
21. MARINE BASED LABORATORIES
22. DEEP WATER TESTING FACILITIES
23. CHANGING ROOMS
24. MUSSEL/ SCALLOP FARMING