



KEY AREAS		LEGEND	
Community Gardens:			
1	Main pedestrian entrance points	Proposed school daily mile path: permeable rubber crumbs with Type 3 sub base to match RAL 050 60 80	Proposed boulder seat
2	Coppice Garden	Paint application to existing tarmac surface to match RAL 090 80 30	Proposed school art board for student work
3	Woodland Garden	Paint application to existing tarmac surface to match RAL 075 80 80	Proposed swing
4	Upper Horizon Garden	Paint application to existing tarmac surface to match RAL 070 70 30	Proposed timber picnic bench
5	Lower Horizon Garden	Paint application to existing tarmac surface to match RAL 000 70 70	Proposed timber picnic bench
6	Surken Pebble Play Garden	Paint application to existing tarmac surface: permeable rubber crumbs to match RAL 050 60 80	Proposed bespoke precast concrete seating: dark grey with plant fossil pattern (3 sizes)
7	Walled Garden	Retained existing tarmac surface	Proposed brick wall
8	Degradation Cover	Proposed green roof to existing building (structural engineer to confirm capability of existing structure)	Proposed brick path
9	South Garden	Proposed softwood timber structure: viewing shelter	Proposed bark-chipping path surface
10	Wildflower Meadow	Proposed softwood timber structure: canopy	Proposed raised planting bed with seating
11	Sports Garden	Proposed stainless steel cycle stands	Proposed raised planting bed
12	Existing landform banks to be retained	Proposed bin	Proposed viewing tower
School Gardens:		Proposed softwood timber bench	Proposed bespoke concrete table
13	Pedestrian Entrances	Proposed play log	Proposed brick oven
14	Living Fence (School Perimeter)	Proposed softwood timber canopy for climbing	
15	Daily Mile Garden	Proposed sunken pebble pit in locations where existing tarmac is removed	
16	Social Garden	Proposed stainless steel and timber elevated walkway	
17	Quiet Garden	Proposed cycle path: low carbon exposed aggregate concrete with recycled aggregate	
18	Waiting Garden		
19	Visitor Entrance		
20	Swale		
21	School Car Park		
Learning bases:			
Key destinations for school learning expeditions in community gardens			

Country / City United Kingdom / Newcastle upon Tyne

University / School Newcastle University / Master of Landscape Architecture

Academic year 2022/2023

Title of the project Learning with Plants: creating a co-habitat for plants and people in a school and community context

Authors Alison Unsworth

TECHNICAL DOSSIER

Title of the project Learning with Plants: creating a co-habitat for plants and people in a school and community context

Authors Alison Unsworth

Title of the course Design Thesis

Academic year 2022/2023

Teaching Staff Dr Usue Ruiz Arana

Department / Section / Program of belonging Master of Landscape Architecture

University / School Newcastle University



Written statement, short description of the project in English, no more than 250 words

The thesis proposes a landscape design at the site of an existing playing fields and secondary school which will create a rich and varied environment for students, staff and the local community to **learn with plants**. Planting and landscape design across **a series of school and community gardens** demonstrates (1) a positive and innovative approach to using landscape assets as a context for learning (2) how plants can help us maximise the ways in which the site can address the climate and biodiversity emergencies. The school gardens create a plant-rich environment which supports the everyday school experience for young people and staff. The wider community gardens provide a series of exploratory routes and destinations designed to facilitate opportunities to support the school's curriculum which is delivered through cross-disciplinary learning expeditions. The approach is led by a series of design principles, informed by research, to guide the development of proposals for the site. The principles focus on the co-habitation of plants and people across the school and community gardens. The site consists of made ground which is likely to include colliery shale from the former colliery which was located in the South East corner of the site. Accepting these environmental constraints, topographical changes have been minimised to avoid exposing contaminants and a walled garden has been incorporated to provide edible planting in raised beds. Elements of the existing school grounds have been repurposed where possible to reduce the carbon impact of the proposed design.

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Barcelona November 2023

SCHOOL PRIZE

LEARNING WITH PLANTS

design principles for Windy Nook school and community gardens



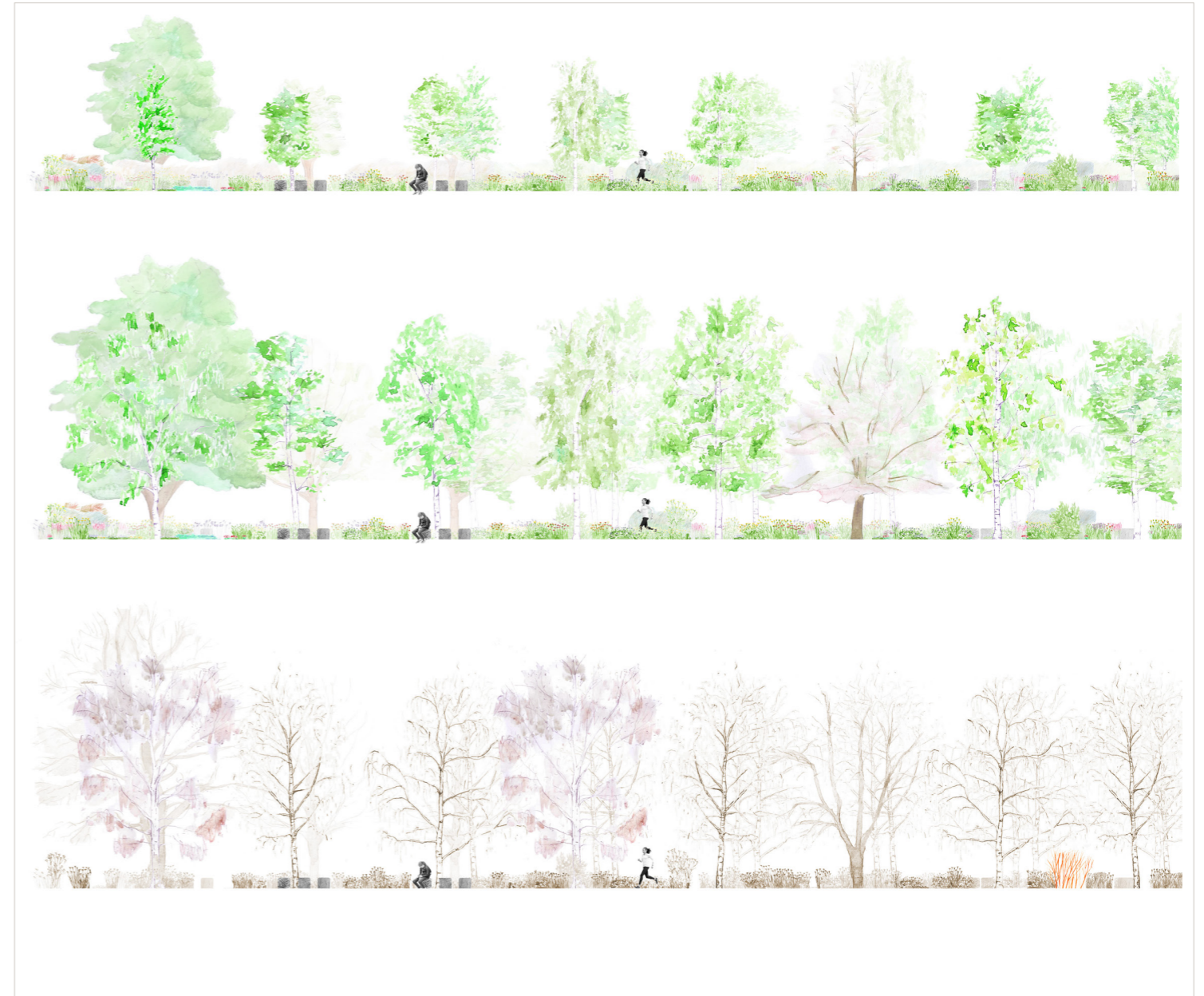
- 01** Use **MANY MORE PLANTS** to dramatically increase carbon sequestration.¹
- 02** Allow for **DESIGN BY HUMANS** and **DESIGN BY PLANTS** in a mutualistic relationship of cooperation.²
- 03** **ACCEPT ENVIRONMENTAL CONSTRAINTS**, selecting plants that will tolerate and thrive in environmental conditions rather than seeking to change them.³
- 04** Design for genetic, functional and structural **DIVERSITY** in planting to increase biodiversity⁴ and create a variety of spatial and sensory experiences for learners.
- 05** Make room to **EXPERIMENT** with new species combinations in plant communities, with new materials and to find new ways of doing things. Accept the possibility of failure.
- 06** Use plants to **CREATE AND SHAPE SPACES** rather than merely filling those which are already defined.
- 07** Embrace **AESTHETICS FOR PLEASURE** because we can bring joy to human experience for its own sake.
- 08** Encourage learners to be **CURIOUS** through invitations to take notice and explore.
- 09** Provide varied opportunities for **INVOLVEMENT** of school and community learners to tend, grow, create, make, build and be active in ways that they choose.⁵
- 10** Design with an understanding that **CHANGE IS CONSTANT**. The composition and boundaries of most plant communities are fluid.⁶ Learners have varied and changing behaviours and preferences.
- 11** Let plants grow and plan for a process of **RESPONSIVE MANAGEMENT** which makes well-considered interventions only where necessary.⁷

Notes: 1. "Plants can help us. Only they are able to bring the concentration of CO2 back to safe levels. [...] There should just be one simple rule: wherever it is possible for a plant to live, there must be one." Mancuso, S. (2022) *The Nation of Plants*. Profile Books p. 93 2. "Plants are masters of cooperation and, through alliances and communities, they have succeeded in building mutualistic societies in any and all earthly environments." Mancuso, S. (2022) *The Nation of Plants*. Profile Books p. 138 3. Rainer, T. and West, C. (2015) *Planting in a post-wild world: Designing plant communities for resilient landscapes*. Timber Press. p. 47 4. Beck, T. (2013) *Principles of Ecological Landscape Design*. Island Press. 5. "Studies indicate that a higher degree of involvement, or mental engagement, yields greater mental restoration." Mooney, P. (2019) *Planting Design: Connecting People and Place*. Routledge., p 35 6. Rainer, T. and West, C. (2015) *Planting in a post-wild world: Designing plant communities for resilient landscapes*. Timber Press. p. 30 7. Rainer, T. and West, C. (2015) *Planting in a post-wild world: Designing plant communities for resilient landscapes*. Timber Press. p. 61





School Gardens - daily mile route.



Proposed planting for School Gardens - daily mile route. Top to bottom: 5 years - summer, 10 years - summer, 10 years - winter
Species:

Tree Layer: *Acer pseudoplatanus*, Sycamore; *Sorbus aria*, Whitebeam; *Prunus avium*, Wild Cherry; *Prunus padus*, Bird Cherry; *Betula pendula*, Common Silver Birch; *Betula pubescens*, Downy Birch

Herbaceous: *Deschampsia cespitosa*, Tufted Hair Grass; *Deschampsia flexuosa*, Wavy Hair Grass; *Deschampsia flexuosa* 'Tatra Gold', Wavy Hair Grass 'Tatra Gold'; *Holcus lanatus*, Yorkshire Fog; *Geranium pratense*, Meadow Cranesbill; *Leucanthemum vulgare*, Ox-eye Daisy; *Origanum vulgare*, Oregano; *Primula vulgaris*, Primrose; *Foeniculum vulgare*, Fennel; *Foeniculum vulgare* 'Purpureum', Bronze Fennel; *Achillea filipendulina* 'Gold Plate', Fernleaf Yarrow 'Gold Plate'; *Achillea millefolium*, Yarrow; *Achillea millefolium* 'Summer Pastels', Milfoil 'Summer Pastels'; *Achillea* 'Summerwine', Yarrow 'Summerwine'; *Achillea* 'Terracotta', Yarrow 'Terracotta'; *Achillea* 'Walther Funcke', Yarrow 'Walther Funcke'; *Ajuga reptans*, Bugle; *Tanacetum vulgare*, Common Tansy; *Ameria maritima*, Sea Thrift.

Ground cover: *Campanula patula*, Spreading Bellflower; *Vinca minor*, Lesser Periwinkle

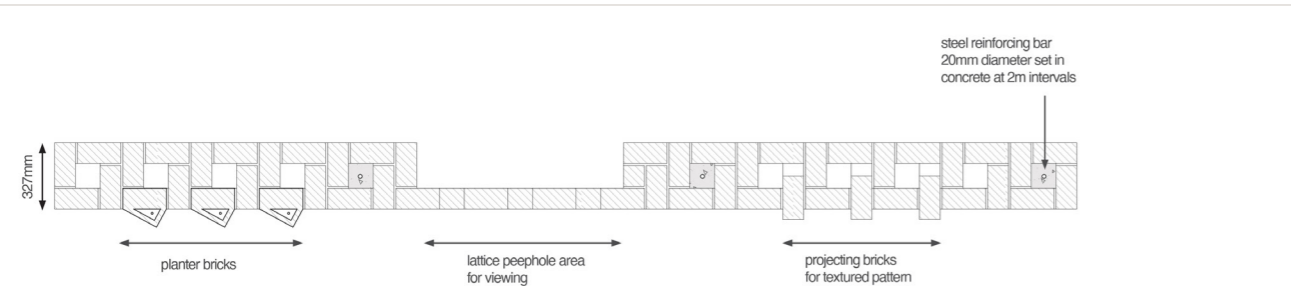
Bricks made from recycled waste aggregate
 Colour: orange / red
 Brick size: 215mm x 102.5mm x 65mm
 Pattern: Double Flemish Bond



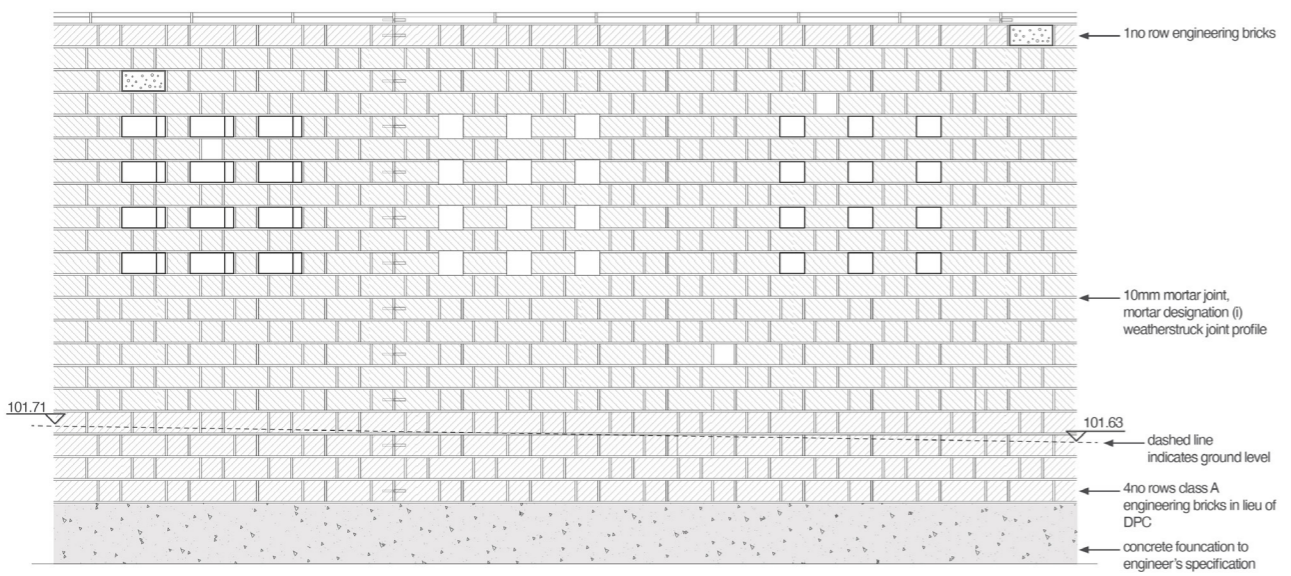
Bespoke planter brick with drainage hole to match



Bee brick
 Dimensions: 215mm x 102.5mm x 65mm
 Note: to be located minimum 1m above ground level
 Area in front of brick to be free of vegetation



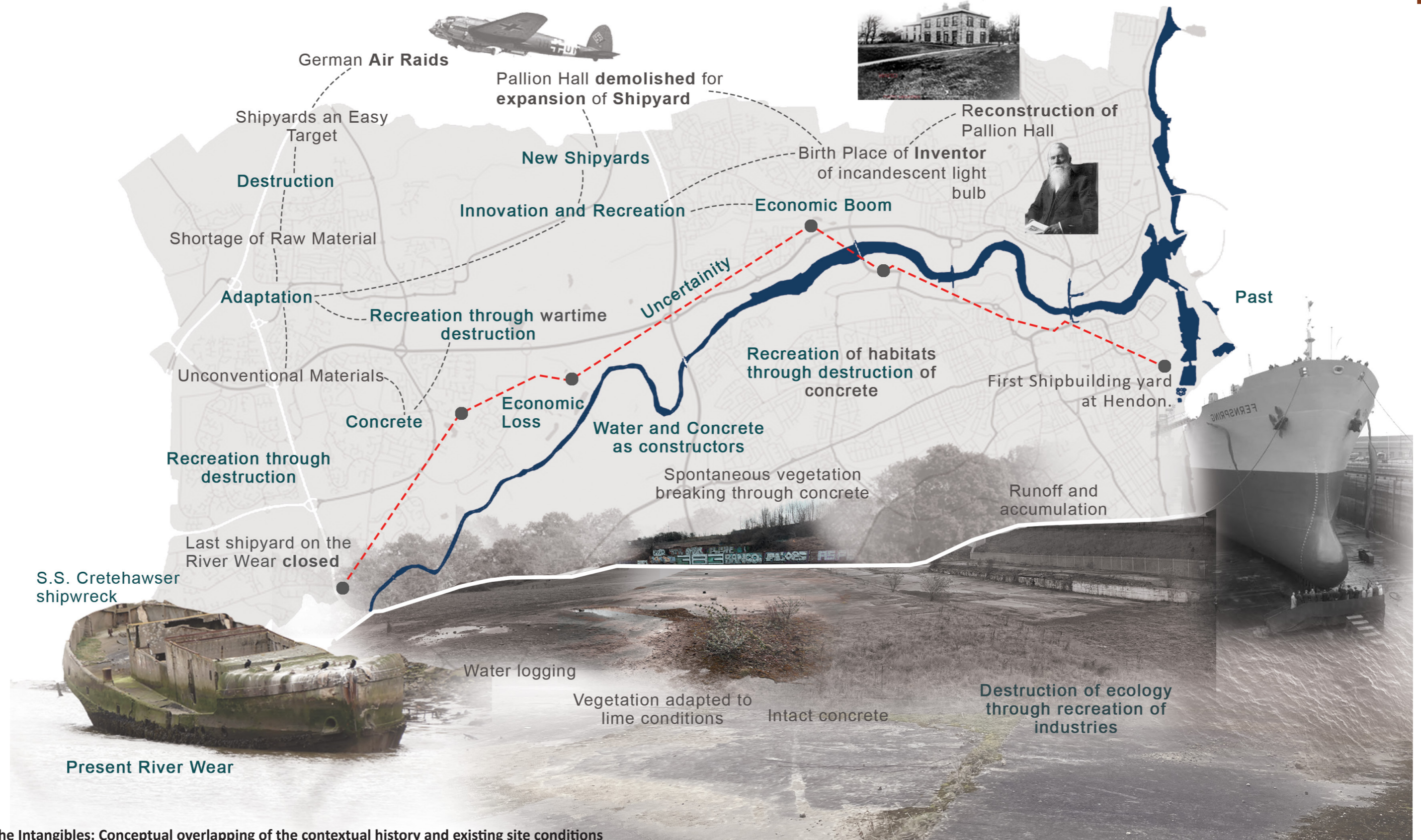
1 Walled Garden south facing wall: Plan
 Scale: 1:20



2 Walled Garden south facing wall: Elevation
 Scale: 1:20



Walled Garden



Mapping the Intangibles: Conceptual overlapping of the contextual history and existing site conditions

Country /City	United Kingdom, Newcastle upon Tyne
University / School	Newcastle University/ School of Architecture Planning and Landscape
Academic year	2022 - 2023
Title of the project	Experimental: Destruction - Recreation
Authors	Aditi Shinde

TECHNICAL DOSSIER

Title of the project	Experimental: Destruction - Recreation
Authors	Aditi Shinde
Title of the course	Master of Landscape Architecture / Design Thesis - APL 8012
Academic year	2022 - 2023
Teaching Staff	Robert Golden, Usue Ruiz Arana
Department / Section / Program of belonging	School of Architecture Planning and Landscape/ Landscape Architecture
University / School	Newcastle University



Written statement, short description of the project in English, no more than 250 words

Postindustrial sites are a legacy of the industrial age that has contributed to nation building in the past. However, such sites also leave behind industrial waste materials. The site chosen for the following project is in Pallion, a former ship building yard in Sunderland in the North East of England. Ship building yards come and go, leaving behind large amounts of inert industrial wastes like concrete, which are taken over and broken down by natural elements like water and vegetation with time. Water is visualized as a constructive and destructive element, and is a critical factor for the ship building industry.

Reflecting on site history and exploring the parallel relationship between natural factors present on site with concrete drives the design that reclaims this postindustrial site. Therefore, the project 'Experimental: Destruction - Recreation', explores the potential of erosion of concrete by existing elements on site: water and transgressive vegetation. The project seeks to identify and facilitate natural processes on site that follow a pattern of destruction and recreation, to encourage alternative methods of industrial land reclamation. Concrete is eroded by water, facilitating the release of alkalis and precipitation of calcium carbonate, leading to concrete's destruction. This is seen as an opportunity and experimentally explored to establish shallow alkaline calcareous grasslands.

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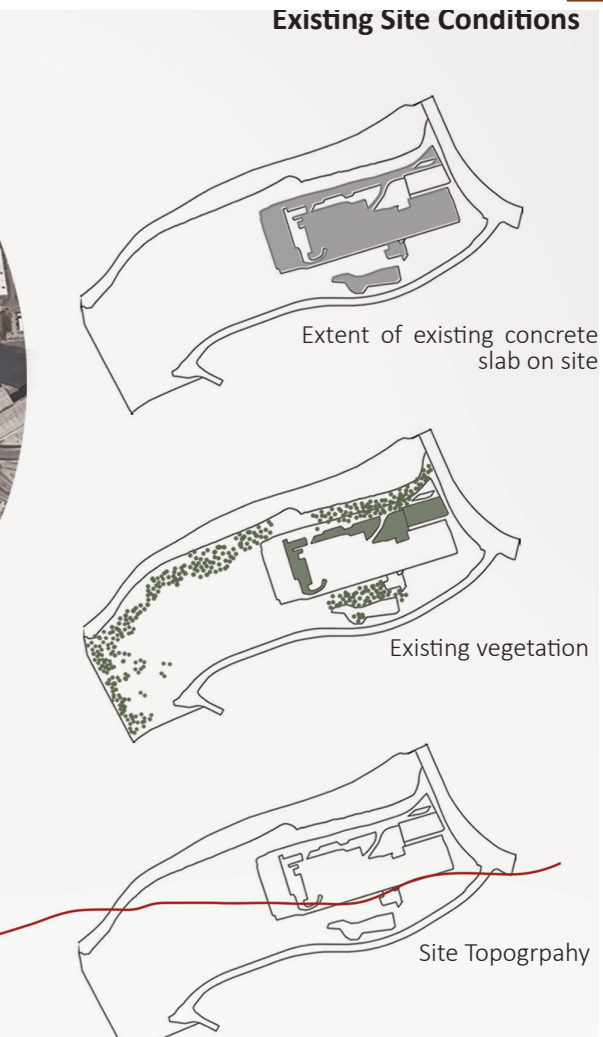
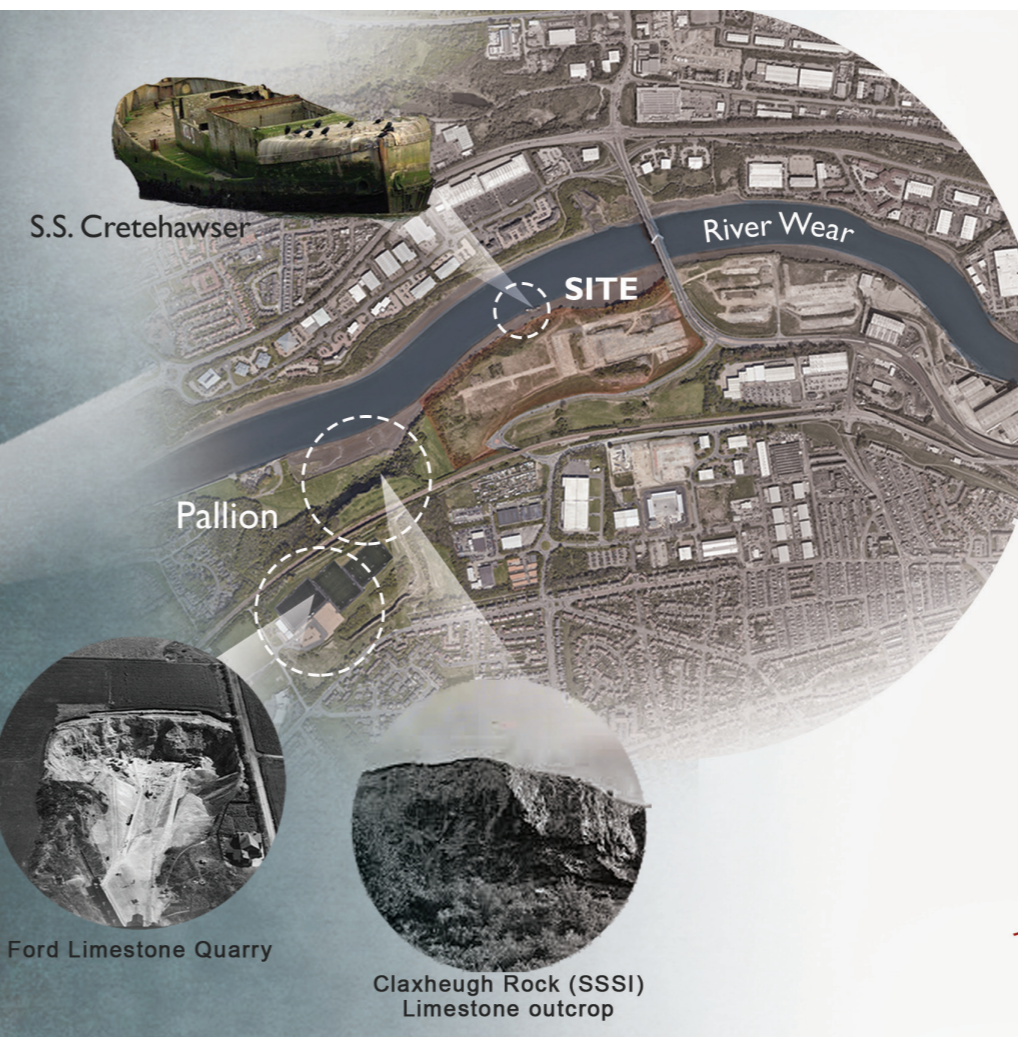
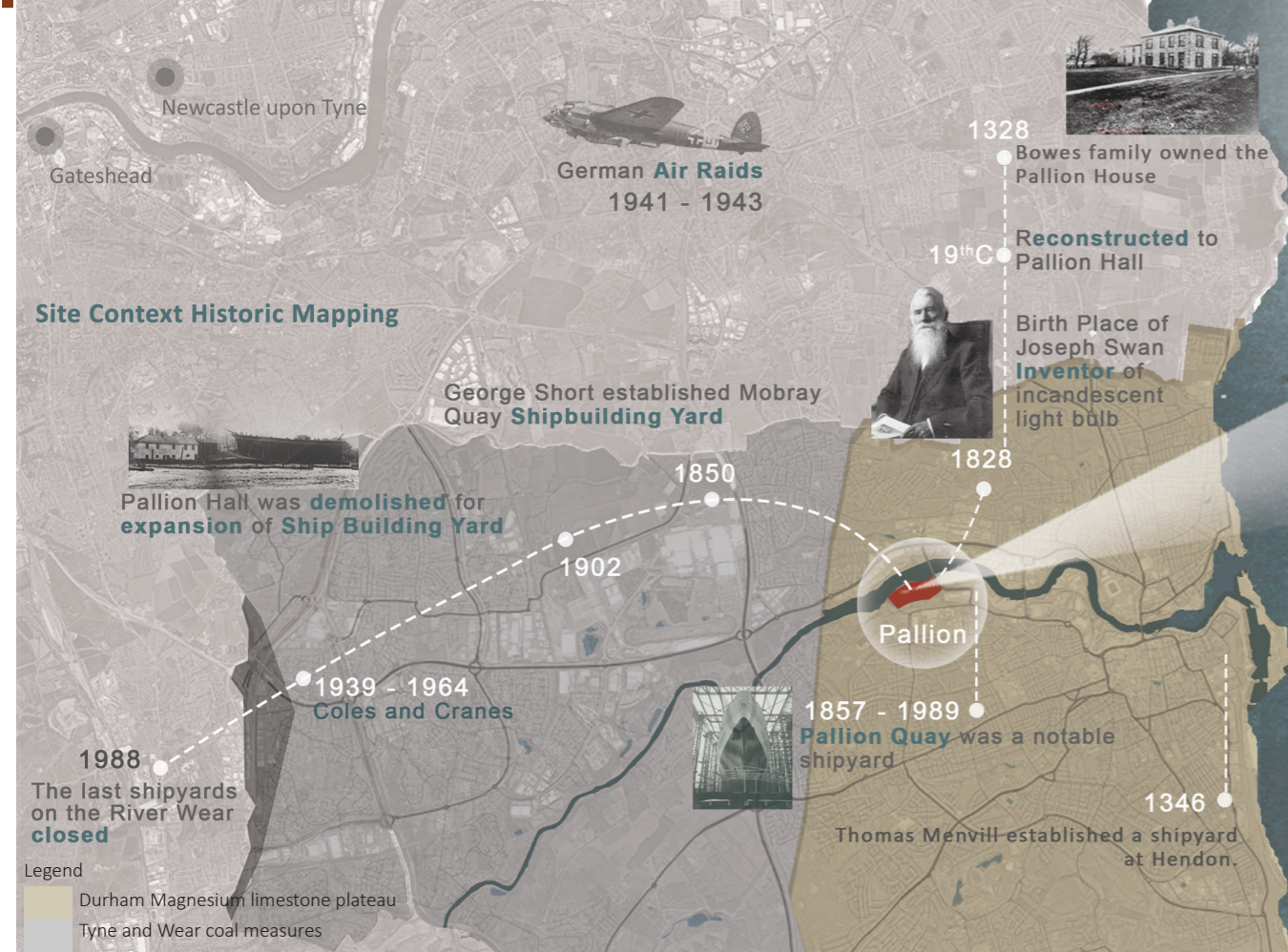
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Barcelona November 2023

SCHOOL PRIZE

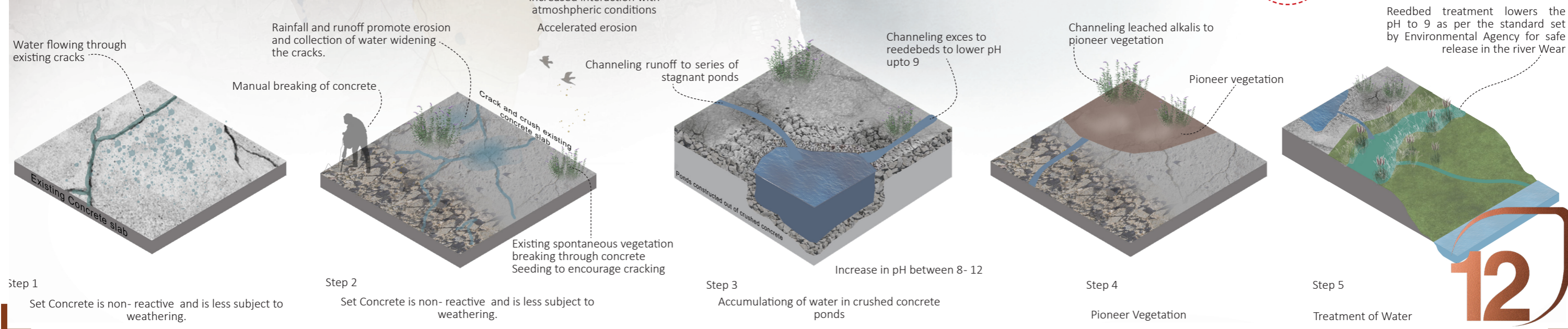
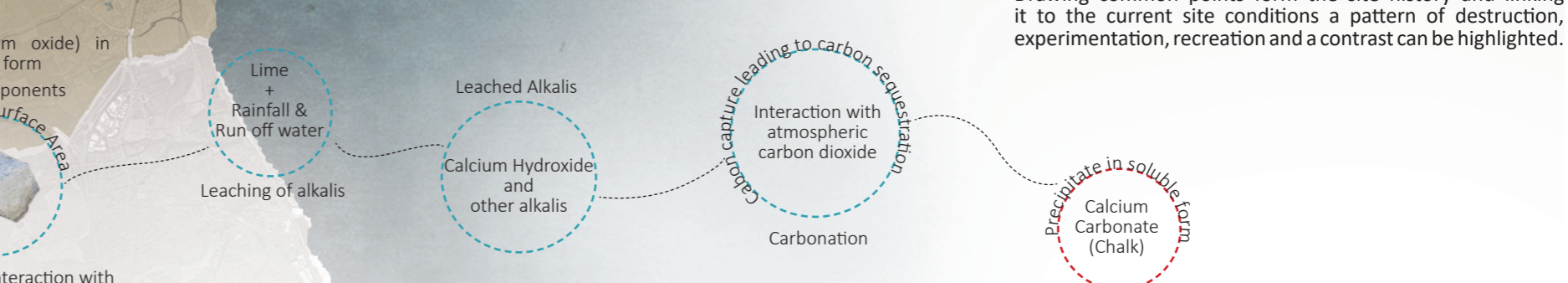
Evolution of Site context



Site Strategy: Erosion as an opportunity for reclamation and introduction of native grassland

The strategy identifies natural elements and their ecological processes that have a potential to erode concrete. Water and atmospheric carbon dioxide are elements responsible for weathering of concrete by two processes: Alkali Release which is Lime leaching of concrete and Carbonation. The combined chemical processes is further explored in the context of landscape as an alternative approach. Therefore the design experimentally proposes.

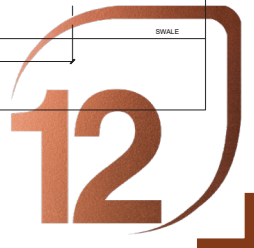
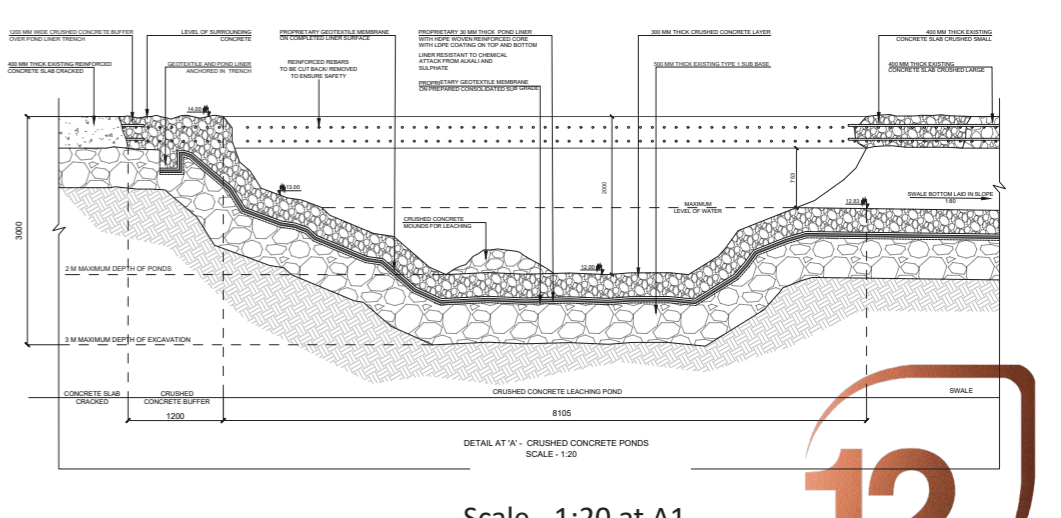
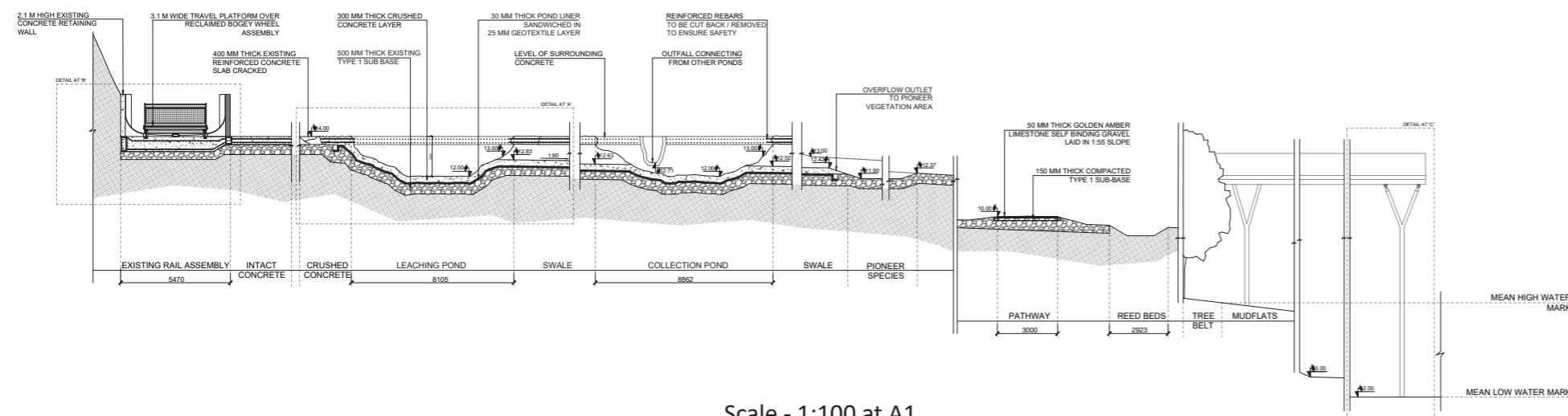
'Destruction of Concrete to Recreate Calcareous Grasslands'



Drawing common points from the site history and linking it to the current site conditions a pattern of destruction, experimentation, recreation and a contrast can be highlighted.

Proposed Masterplan

Reflecting on the site history and existing site conditions the plan proposes for destruction of concrete to recreate calcareous grasslands on the Eastern side and builds a contrast by proposing woodland on the water logged areas on site, critically highlighting the effects of industrialisation.



Proposed shallow alkaline calcareous grassland

Calcerous Grasslands are one of the rare habitats of the U.K. growing on soils containing chalk and limestone rich in calcium carbonate.



Supporting Species

Species rich grassland are most diverse in terms of wildflowers and grasses, which supports characteristic species of moths and butterflies.



Cowslip
Primula veris



Butterfly Bush
Buddleja Davidii



Yorkshire Fog Grass
Holcus lanatus



Greater Knapweed
Centaurea scabiosa



Cock Foot Grass
Dactylis glomerata



Common Rock Rose
Helianthemum nummularium



Chalk Carpet Moth
Scotopteryx bipunctaria



Small Tortoise Shell Butterfly
Aglais urticae



Common Blue Butterfly
Polyommatus icarus



Least Minor Moth
Photedes captiuncula



Durham Argus Butterfly
Aricia artaxerxes salmaccis

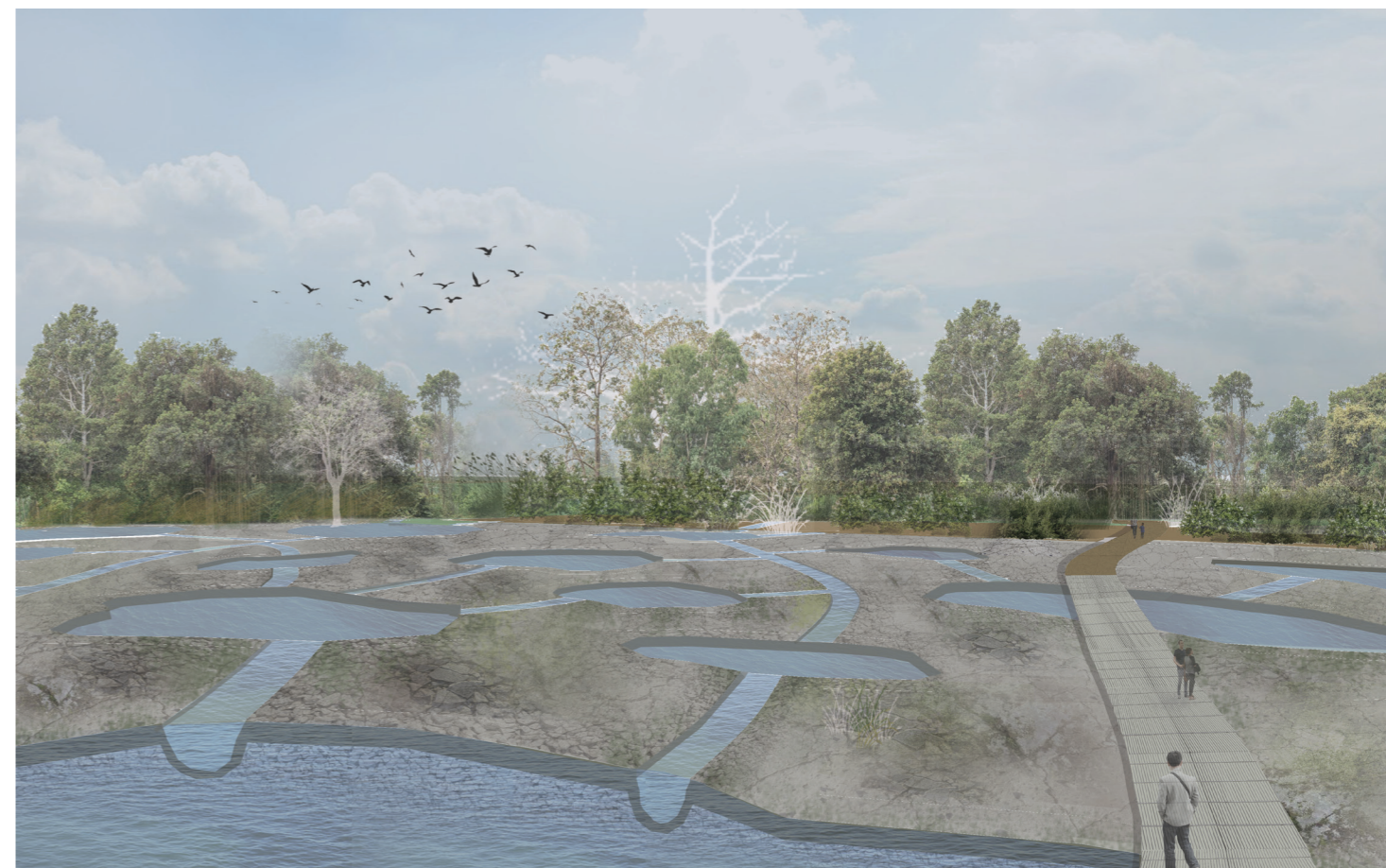


Peacock Butterfly
Aglais io

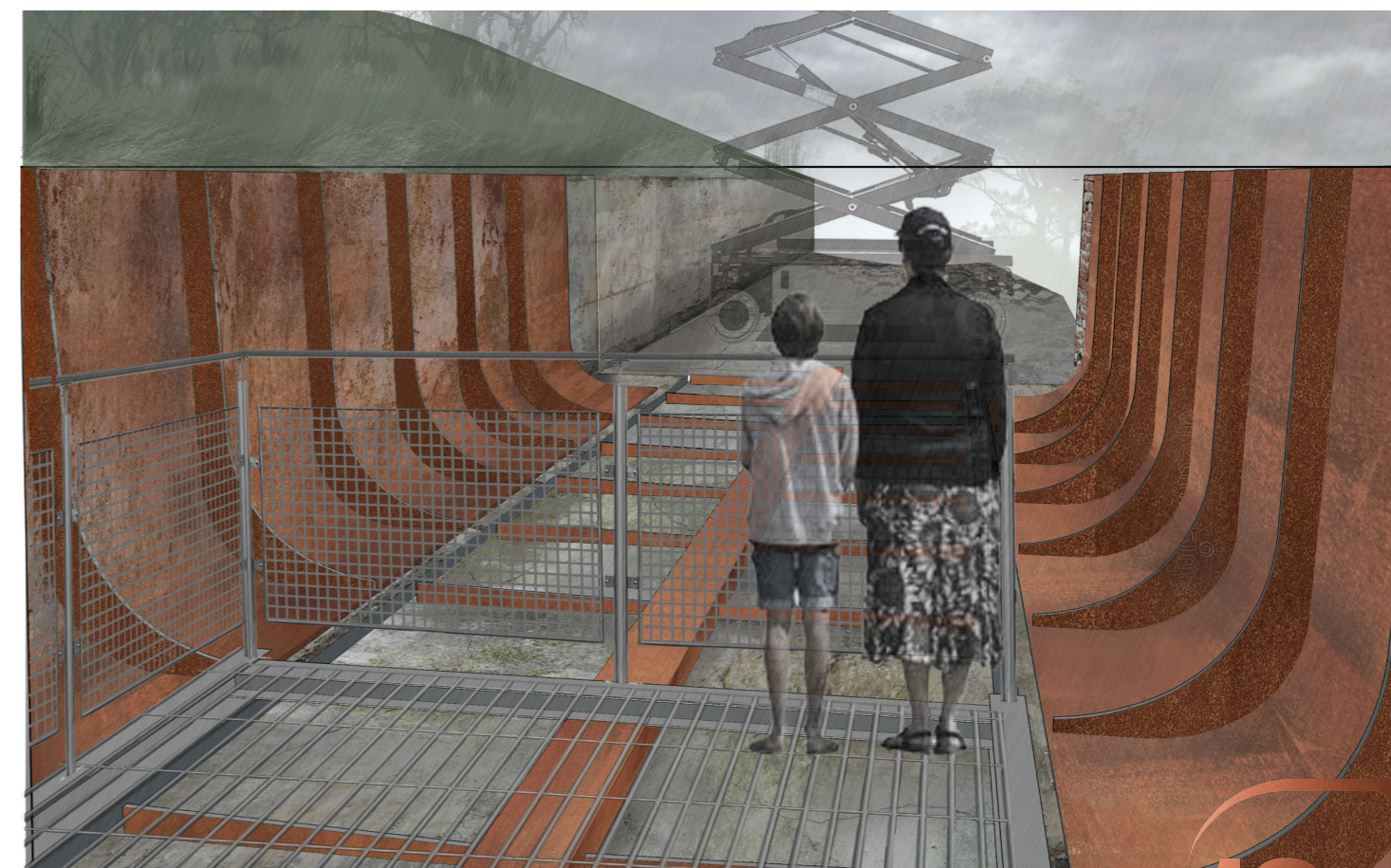


Dingy Skipper
Erynnis tages

Creative Visualisation of Concrete Ponds and Destruction Zone



Creative Visualisation of Elevated Walkway along the Wreck of S.S. Cretehawser



Creative Visualisation of Travel Platform over Repurposed Rail Assembly



Journey of Becoming

Soundscape for Hospice

MLA Design Thesis

Country /City England, Newcastle upon Tyne

University / School Newcastle University, School of Architecture, Planning and Landscape

Academic year Year 2 (2022-23)

Title of the project Journey of Becoming: Soundscape for Hospice

Authors Jahnabi Barua

TECHNICAL DOSSIER

Title of the project	Journey of Landscape: Soundscape for Hopice
Authors	Jahnabi Barua
Title of the course	MLA Design Thesis
Academic year	Year 2 (2022-23)
Teaching Staff	Dr Usue Ruiz Arana, Stef Leach
Department / Section / Program of belonging	Master of Landscape Architecture,
University / School	Newcastle University, School of Architecture, Planning and Landscape



Written statement, short description of the project in English, no more than 250 words

The confluence of perception and spirituality, celebrating the journey of life. A design thesis on incorporating a walking trail and hospice at the Old Fulling Mill on the bank of river Wear, Durham, England.

My project is a celebration of Nature and the natural trajectory of human existence. It is built around the theme that life begins, sustains and ends in water- Nature's most integral element. More practically, it attempts to change the conversation around Death- a subject intimately and unavoidably associated with grief, loss and suffering. Rather, I propose looking at it in a new light- one of growth, love and reconnection to Nature, celebration of the life one lived. The design style I used in the project is largely based around crafting experiences to stimulate the viewer, and going beyond the mere physical representation. I attempted to explicate the emotional aspects of the site design by incorporating artworks, poetry, storytelling, physical models and sonic illustrations. I consciously used a more informal style in the masterplan, sections and perspective drawings in accordance with this vision. I was keen to use sound and dynamic elements such as water and wind in my design approach to push myself beyond what I previously considered to be my boundaries as a proponent and student of Landscape Architecture.

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SCHOOL PRIZE

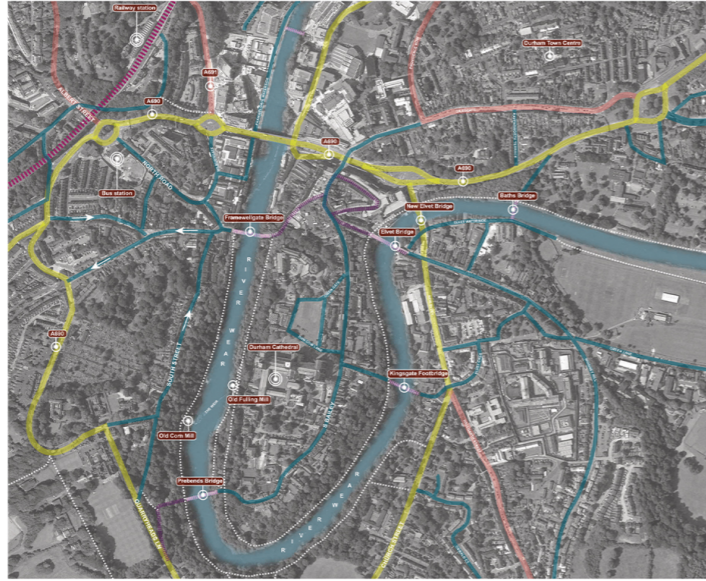
Survey and Analysis

Site location



Site Location: Durham Riverbanks, Near Durham Cathedral, England
Site Area: 9 ha
Land mass area: 5.3 ha

Connectivity



Framwellgate Bridge on Silver Street is the access point for the Historic Walking Trails along the site. South Street is the closest motorable road for accessing the site, and for emergency purposes. Presently, it is accessible via Framwellgate Bridge and Prebends Bridge.

The nearest Bus Stands are North Road (temporary) and Millburngate which are a 7-10 minute walk from the site. The nearest railway station is the Durham station, which is approximately 1km away.

Existing historical and geological water features

The well is comprised of the largest sandstone surround of any well in Britain. The arch over the well bears the inscription "Fons: Cuthbert" and the date 1600 (or perhaps 1660).

Now only a small trickle, there was once a much greater flow of water into a small stone basin, and a stone arc of wellhead. However, it is in a state of disrepair and at risk of being lost as a heritage asset.



Galilee Well
 This well can be seen on the path from Windy Gap to Watergate, adjacent to the Galilee Chapel of Durham Cathedral. The west end of the Cathedral is built over the well.

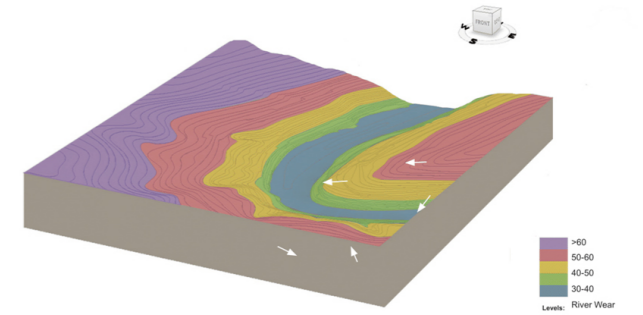
Waterfalls in the site

Major medical organisations around



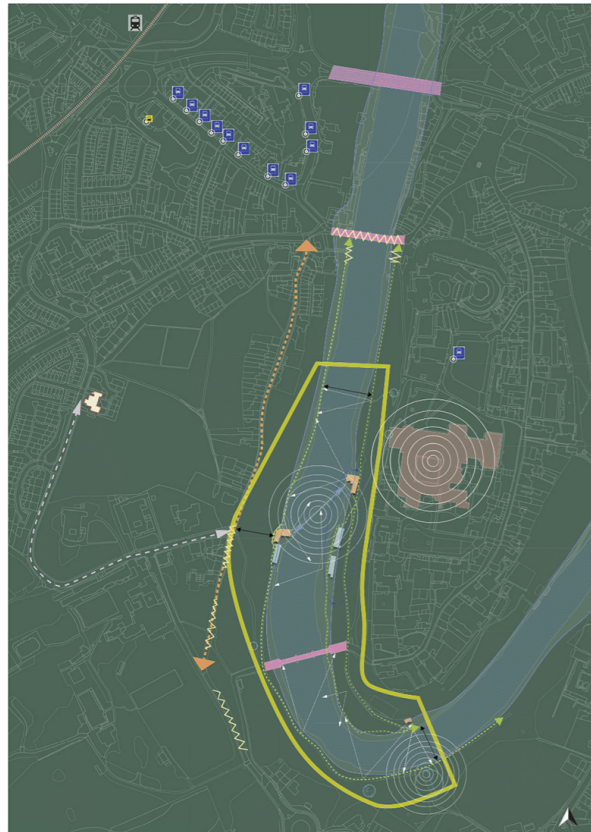
The closest health centers to the site are St. Margaret's Health Center, Claypath Medical Center, and the University Health Center; all of which are within walking distance to the site. The closest hospice is St. Cuthbert's Hospice, which is 1.5 miles from the site. The University Hospital of North Durham and the Lanchester Road hospital are the closest hospitals, approximately 1.5 and 2.7 miles away respectively.

Existing contours



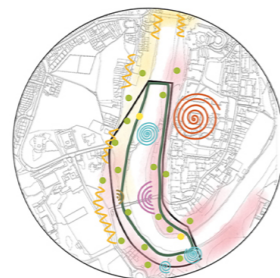
The topography is very steep and goes down towards the river ranging from 31 to 70.

SWOT Analysis

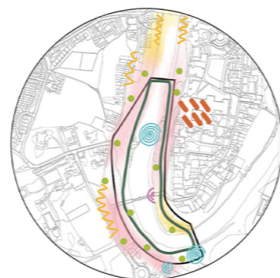


STRENGTHS Symbolic heritage Existing built and natural assets Rich flora and fauna	WEAKNESSES Accessibility Green space Potential safety hazards
OPPORTUNITIES Restoration of key buildings Shared regeneration Heritage trail Recreational facilities Connections between old and young generation Safety and security Accessibility Filtering urban noise	THREATS Flood zones Soil erosion Runoffwater affecting existing wildlife Lighting provisions affecting wildlife Vandalism

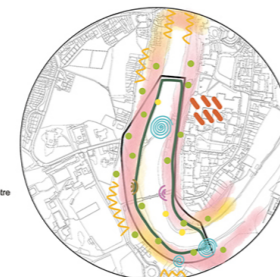
Sound survey



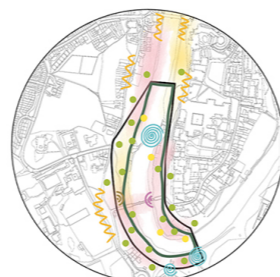
Date: 20/10/2022 Thursday
 Time: 12:45 PM
 Weather condition: Light rain and fog 12 / 10 °C
 Wind: 8.7 mph



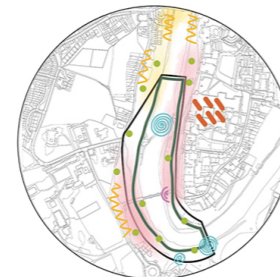
Date: 11/11/2022 Friday
 Time: 12:30 PM
 Weather condition: Scattered clouds 17 / 16 °C
 Wind: 19.264 mph



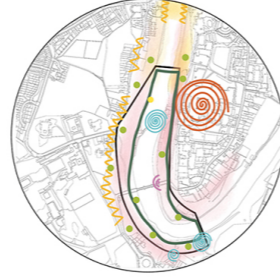
Date: 29/12/2022 Thursday
 Time: 12:45 PM
 Weather condition: Scattered clouds 8 / 5 °C
 Wind: 21.128 mph



Date: 11/01/2023 Wednesday
 Time: 01:20 PM
 Weather condition: Light rain, Scattered clouds 12 / 10 °C
 Wind: 14.293 mph



Date: 26/02/2023 Sunday
 Time: 10:00 AM
 Weather condition: Partly sunny 7 / 5 °C
 Wind: 7.457 mph



Date: 19/04/2023 Wednesday
 Time: 14:30 PM
 Weather condition: Passing clouds 12 / 11 °C
 Wind: 11.807 mph

- Biophonic sounds (Whistling leaves, birds chirping)
- Amphibian sounds (Green toad)
- Church bell rings (bells)
- Church bell rings (downstream)
- Noise (Industrial, Urban)
- Water gushing sound (The Weir, waterfalls)
- Echoing zone (Walkway under the bridge)
- Reflecting surface (Grassless surface of St. Mary's Healing Well)
- Sound of wind
- Sound of people

Existing wildlife

The site is a very rich habitat for wildlife.

Mammals

- European otter
- Weasel
- Lesser horseshoe bat
- Grey squirrel
- European badger
- Beaver
- Bank vole
- Water vole
- Water shrew
- Wood mouse

Amphibians

- Marsh frog
- Palmate newt
- Natterjack toad
- Common toad
- Common frog

Invertebrates:

- Oak Bush-cricket
- Speckled Bush-cricket
- Common field grasshopper
- Common green grasshopper
- Meadow grasshopper
- Common clubtail
- Emperor Dragonfly
- Golden-ringed dragonfly
- Red-headed Cardinal Beetle
- Black-and-yellow longhorn Beetle
- Green tortoise beetle
- Common mayfly
- Land caddis
- Common green lacewing
- Large Red Damselfly
- Azure damselfly
- Emerald damselfly
- 2-spot ladybird
- 7-spot ladybird

Butterflies

- Scotch argus
- Adonis blue
- Marsh fritillary
- Green-veined white
- Speckled wood
- Silver-washed fritillary

Birds

- Snipe
- Common gull
- Woodpigeon
- Ring-necked parakeet
- Firecrest
- Wood warbler
- Great tit
- Willow tit
- Garden warbler
- Lesser whitethroat
- Whitethroat
- Robin
- Grey heron
- Glossy ibis
- Mallard
- Wigeon

Freshwater fish

- Atlantic salmon
- Dace
- River lamprey
- Rainbow trout
- Brown trout
- Bullhead
- Eel

Historic buildings on site

Proposed for restoration and hospice used



The riverbanks are home to many species of plants. Broadleaved ancient woodland of mostly oak and beech trees, some of which are around 350 years old. There are also yew, hornbeam and common lime trees. In winter, the line of lime trees are most noticeable on the lower riverbank path from Framwellgate Bridge to the Fulking Mill. The riverbank brings together the Durham Cathedral, the Durham university and the historic core and connect the whole city. Nevertheless, presently the riverbanks face challenges including accessibility, connectivity and wayfinding, derelict heritage assets, and ownership and maintenance.

Design Philosophy

Poem self-written on the thesis concept

A Soundscape for Hospice: The Journey of Becoming

The Journey of Becoming
—Jahnabi Barua

I wander by the River Wear
Amid the chirping birds playing hide 'n' seek,
Amid the breeze whispering age-old history.
The rustling leaves sing gospels by the cathedral ;
The urban buzz is silenced by the mighty roars of the Weir.
I close my eyes to feel my smile.
Then, I see the rustic antique mills.
Ah, what a space to celebrate life!
A place where you can dance;
a place where you can dance alone.
To reflect on all joys and sorrows,
That mark the journey of becoming;
A place where we can accept the inevitable and feel grateful to life;
The becoming!

Staying true to the Soul of the site;
in the shape of the Durham peninsula

Notations of the song 'Thrift' by Spell songs.
"...Thrift's gift is, Thrift's grace is
to thrive in harsh places
And show us hardship is a limit not a falling
Show us how to live in hope against the odds,
you're clinging on,
Oh little Thrift, sing out your song..."

Conceptual model



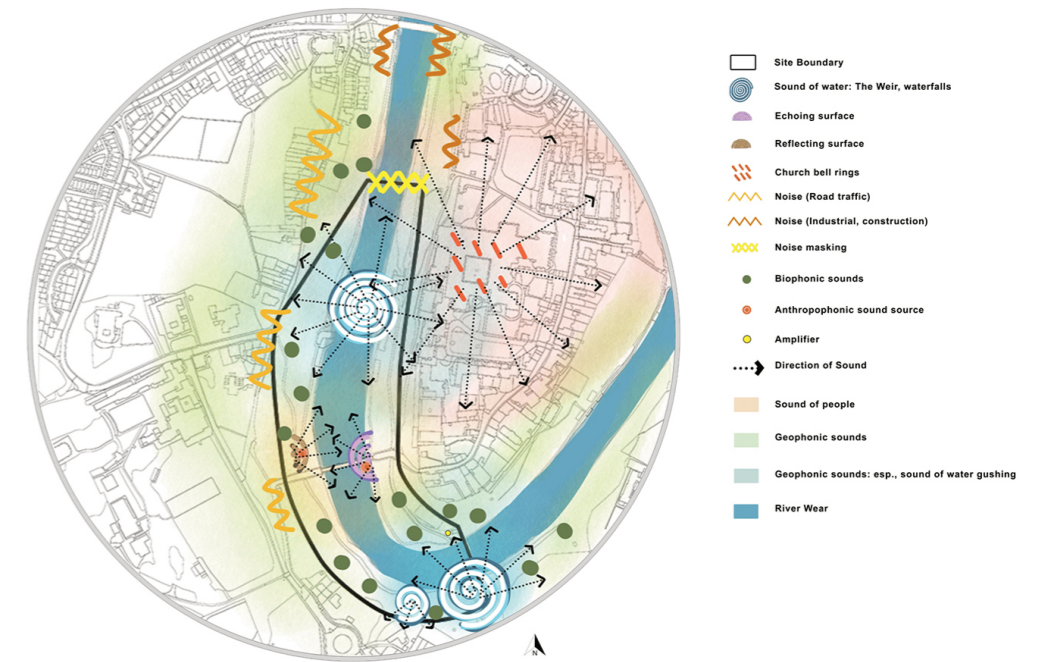
Being connected to where we began
through the threads

Mother and child: Going back to the
heritage of welcoming and curing of the
site

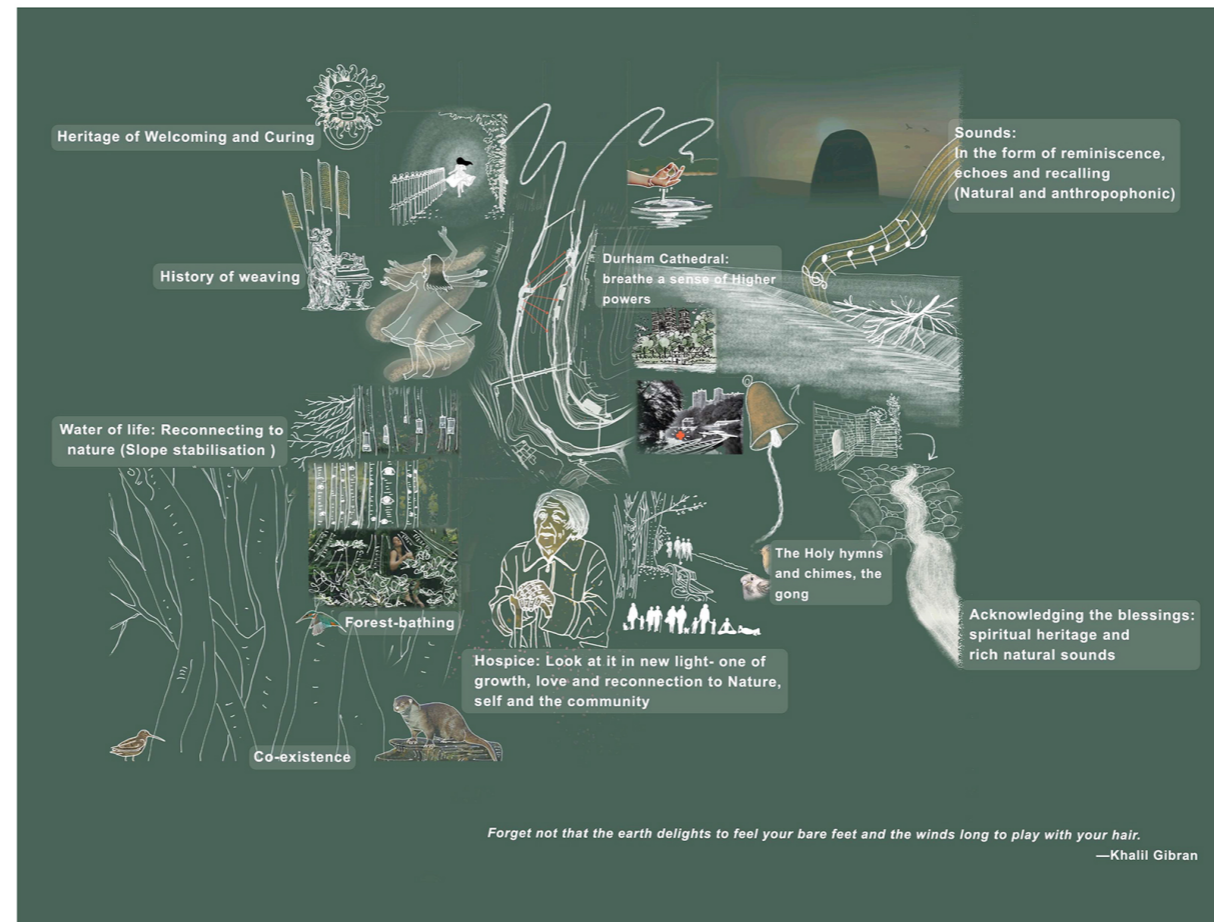
Dried parts of tree bark and green moss
and lichen depicts how nature works,
the energy stays around. Energy is im-
mortal and once we consider ourselves
as nature, everything stays connected
and within, hence the soul of the site.

European otters standing for nature's
way of soil erosion

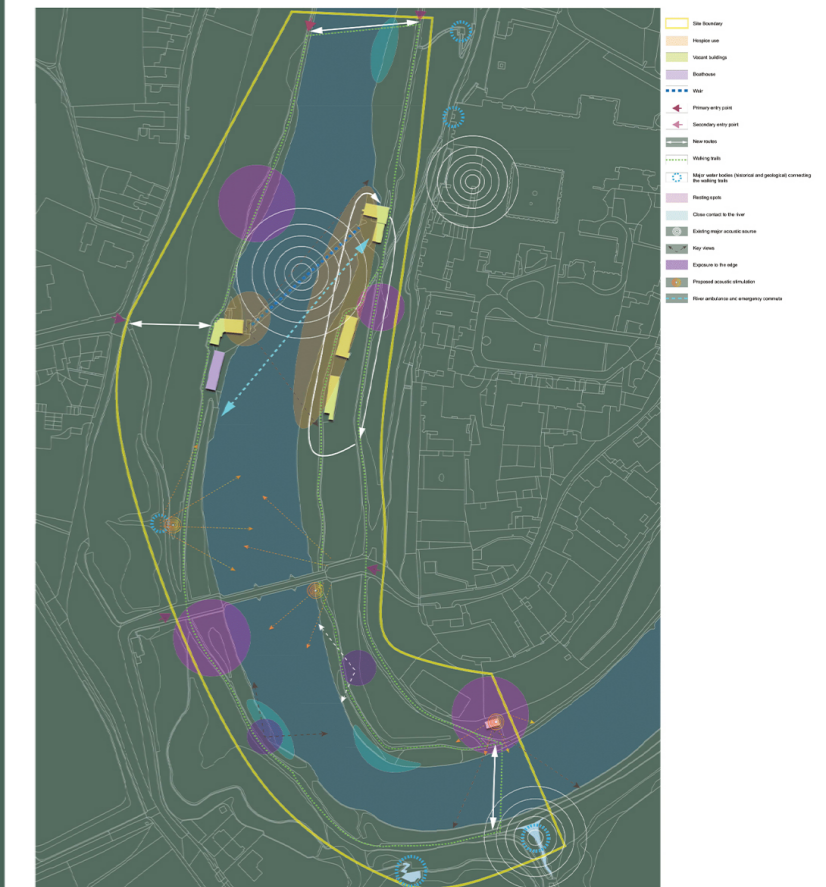
Sound conceptual diagram showing sonic connections



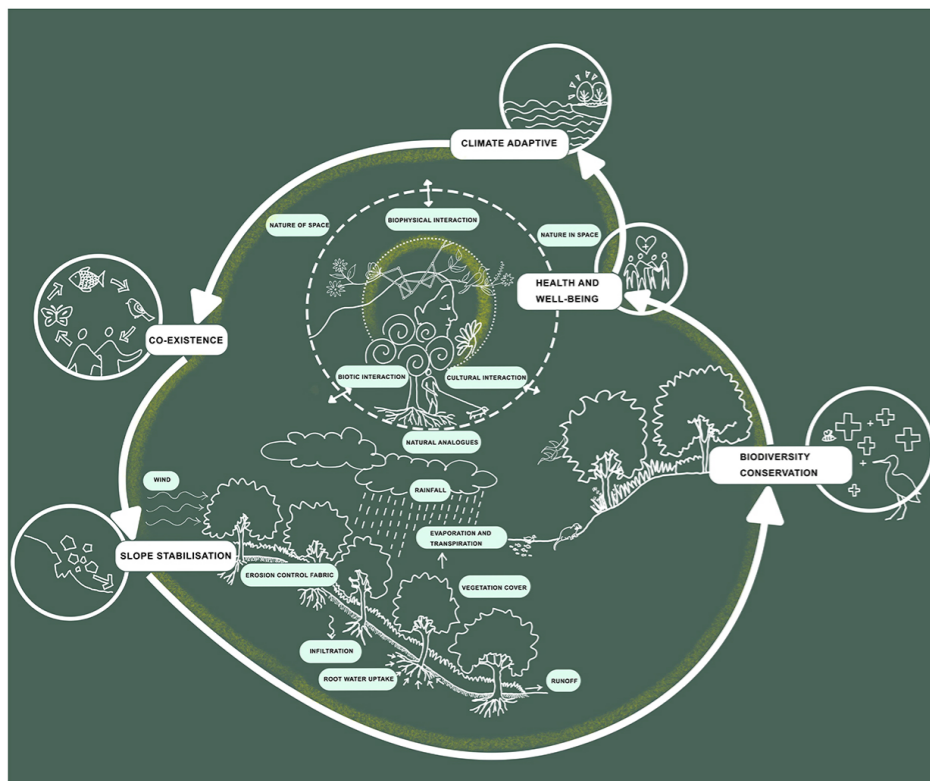
Concept diagram



Bubble diagram of the concept on the site plan

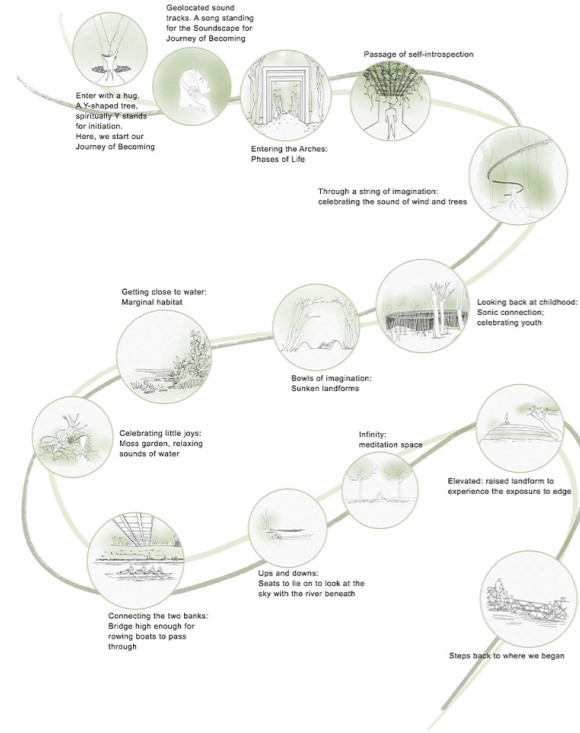


NBS Strategies



Design Proposal

Journey of Becoming



Planting Strategy

Typologies:



The planting strategy was created to embellish the existing woodlands, and reintroduce the meadows that were historically a part of the site. Furthermore, the promotion of marginal habitats was focused upon, with the incorporation of moss and lichen expansion.

Management Objectives:

- To attain a long-term design concept realisation
- To provide an aesthetically pleasing environment for the project site
- To maintain the quality of the proposed landscape initiatives
- To ensure the continued establishment of diverse native and non-native species in the site and avoid invasive and dominating species.
- To support long term maintenance of the site



Movement Strategy



- Primary walking trail for non-motorised (Public use)
- Proposed route for fastest way to the nearest motorable road
- Existing walking routes
- Secondary routes
- Proposed pathway: down to the clear from viewing terrace
- Proposed pathway: to the waterfall (Stair)
- Proposed bridge (at night)
- Walking primary: to the Respite residential and tertiary
- Elevated accessible trail
- Elevated trail from the Respite residential building to the rest of the site
- Steps in the river
- Steps to the river
- Strategic access to river banks

Seating Strategy



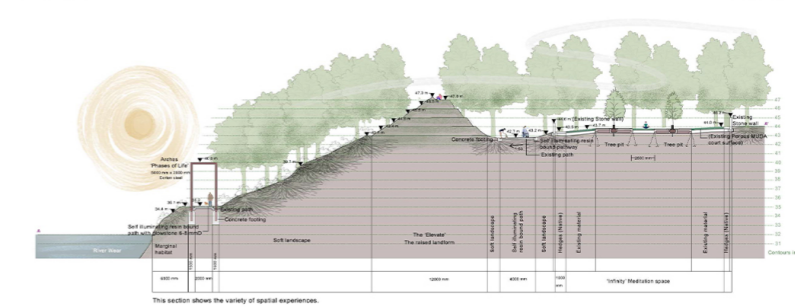
- Seating seats with benches
- Seating seats for Respite residents only
- Soft seated tenders to be in to look at the sky
- Soft seated tenders
- Looking for the river
- Meditation spaces
- Seats to be above the river with the view of sky

Light Strategy



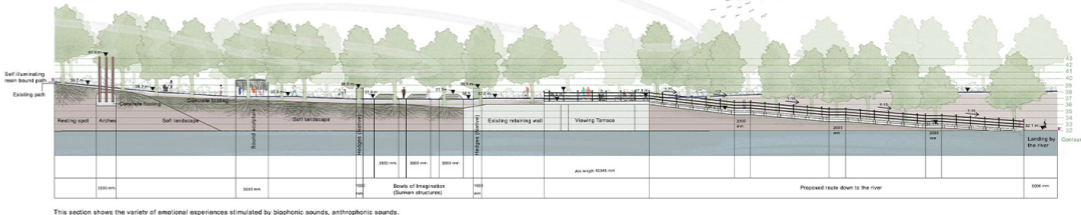
- Self-illuminating reed bound pathway
 - Existing light poles
 - Proposed light poles attached to the Respite residential building
- No many changes incorporated with respect to lighting situation of the site. Artificial light at night can illuminate the habits of wildlife who may also abandon the site to avoid the light.
- None, the natural lighting conditions the site are.
- A lighting strategy was developed for the site, including the following: 1. All lighting is to be controlled via a PIR and/or timer. 2. Lighting is to be installed in a way that it is not visible to the user. 3. The lighting is to be installed in a way that it is not visible to the user. 4. The lighting is to be installed in a way that it is not visible to the user.

Sections



Scale: 1:100 (A1)

Sections



Scale: 1:200 (A1)

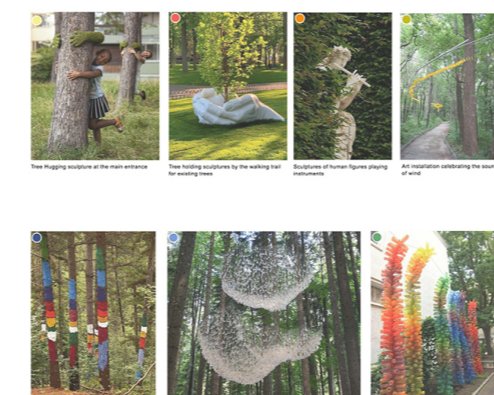


Sound strategy

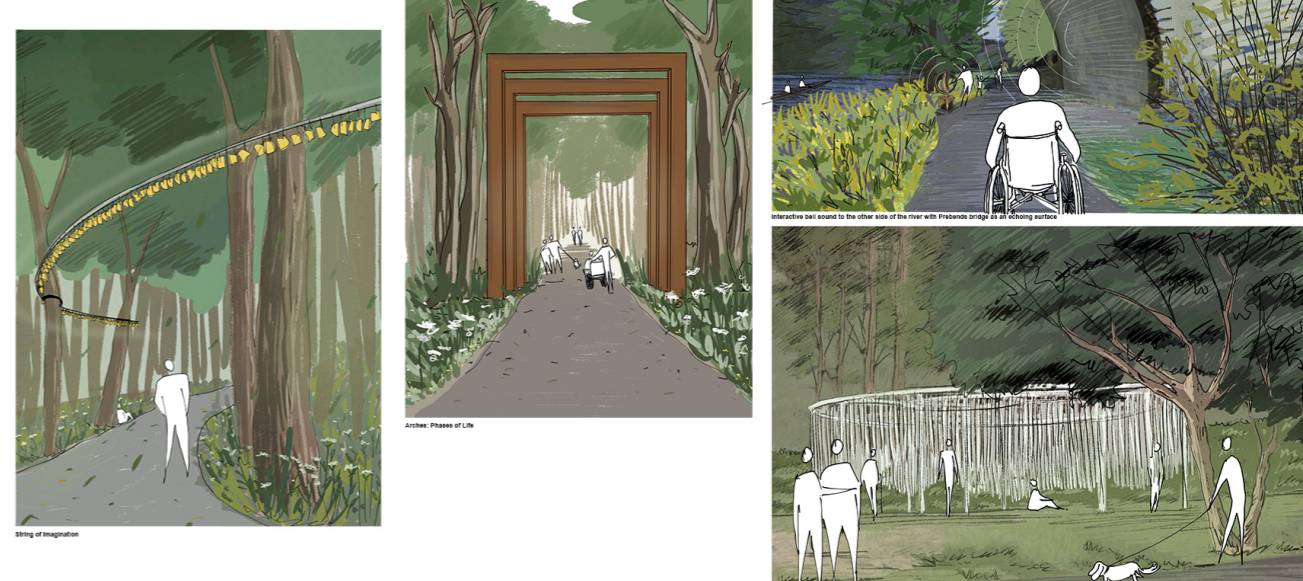


- Natural sound of the river
- Sound sculpture
- Interactive metal gang with a timber stick (hung from the trees with the St. Mary's hearing that behind an existing surface)
- Natural sculpture
- Interactive seat with the Respite bridge acting as the existing surface
- Installation of hydrophones and speakers to the sound of the waterfalls/river
- Natural sound of the waterfalls/river and microphones installed next to it
- Installation of an amplifier for waterfalls/river sounds

Art Strategy



Visualisations



Sound of the river (government website)



Sonic walk for visitors: Geolocated sound track for people to experience the overall story before entering the main sonic experience



Sound of bigger waterfalls recorded with microphones: Microphones, recorder installed next to waterfall and another installed in the Court House on the other side of the river.



Sound of small waterfalls recorded with hydrophones: Hydrophones, recorder and speaker to be installed on site



Granton | Wave of Change
From an Industrial Past to a Resilient Future.

Country / City United Kingdom / Newcastle upon Tyne

University / School Newcastle University / School of Architecture, Planning & Landscape

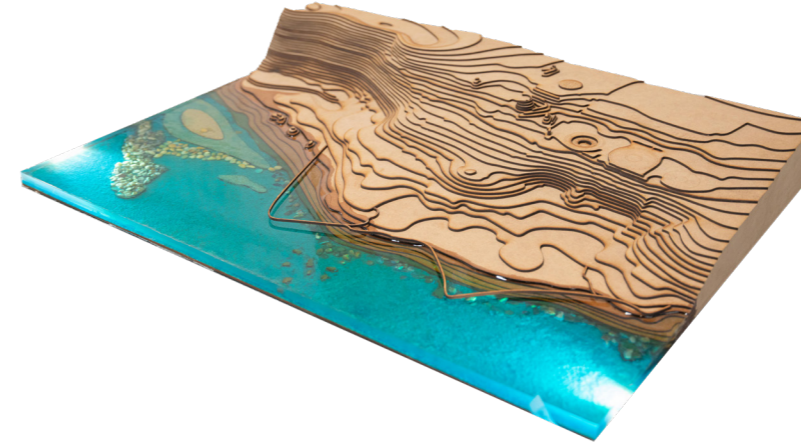
Academic year 2022/2023

Title of the project Granton: Wave of Change. From an Industrial Past to a Resilient Future.

Authors Małgorzata Ewa Gudel

TECHNICAL DOSSIER

Title of the project	Granton: Wave of Change. From an Industrial Past to a Resilient Future.
Authors	Małgorzata Ewa Gudel
Title of the course	MLA Design Thesis
Academic year	2022/2023
Teaching Staff	Adriana Oliveros Blanco, David Barter, Usue Ruiz Arana
Department / Section / Program of belonging	Master of Landscape Architecture (MLA)
University / School	Newcastle University / School of Architecture, Planning & Landscape



Written statement, short description of the project in English, no more than 250 words

Wave of Change is a project focused on two important themes, climate change mitigation through nature based solutions, and re-purposing of the industrial heritage of the site. The project is set in Granton, a coastal neighbourhood located in northern Edinburgh, which is particularly known for its industrial character. Although the area contains one of the largest brownfield sites in Scotland, it is also a rich intertidal zone inhabited by a number of invertebrates and endangered bird species. This dynamic ecosystem belongs to the Firth of Forth Site of Special Scientific Interest. According to predictions by Climate Central, by 2050 a large part of my site is going to be under annual flood level. For this reason, I took a water-centric approach to my design. My proposal aims to create a space where intertidal habitat connects seamlessly with former gasworks area, creating a variety of spaces for both human and non-human enjoyment. Instead of using hard engineering to contain the tides, the project focuses on managed retreat and creation of a saltmarsh in preparation for the future sea level rise. The remainders of industrial past are given a new life and purpose. No materials are wasted. Rubble, mounds of worked earth and old railway tracks are used to create a new sculpture park, where visitors can learn about the rich past of the site and reflect on its unfulfilled futures.

For further information

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12th International Biennial Landscape Barcelona

Barcelona November 2023

SCHOOL PRIZE

Granton | Wave of Change Masterplan



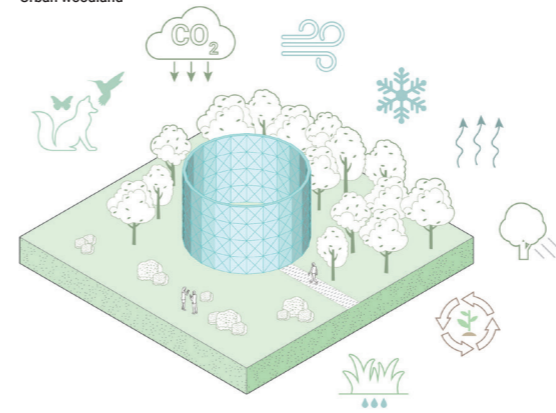
Tidal zone and mudflats



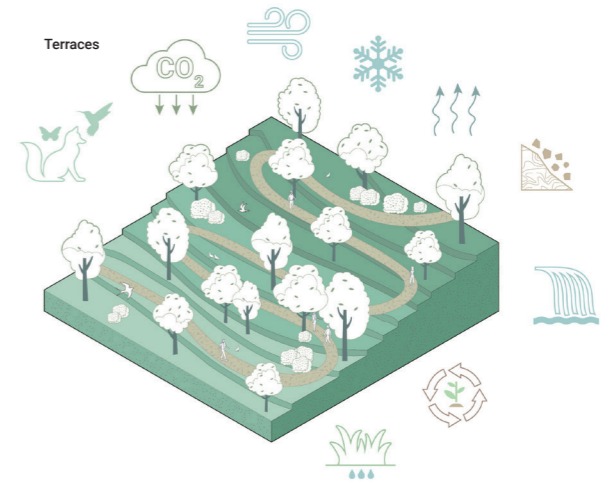
Salt marsh and transition zone



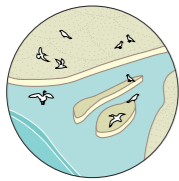
Urban woodland



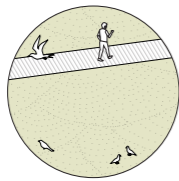
Terraces



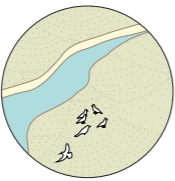
Habitat for a variety of bird species



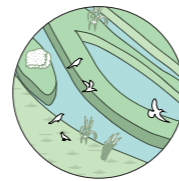
Boardwalks to see the nature without interfering



Constant movement of water



Habitat for waterfowl and wading birds



Network of wooden boardwalks



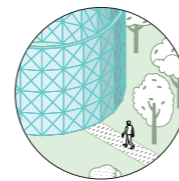
Trees in the transition zone



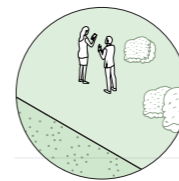
Woodland provides a range of ecosystem services



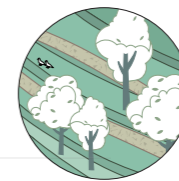
Industrial heritage incorporated into the green surroundings



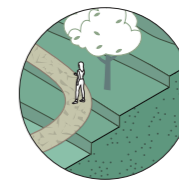
Visitors can connect with nature and reflect on industrial past



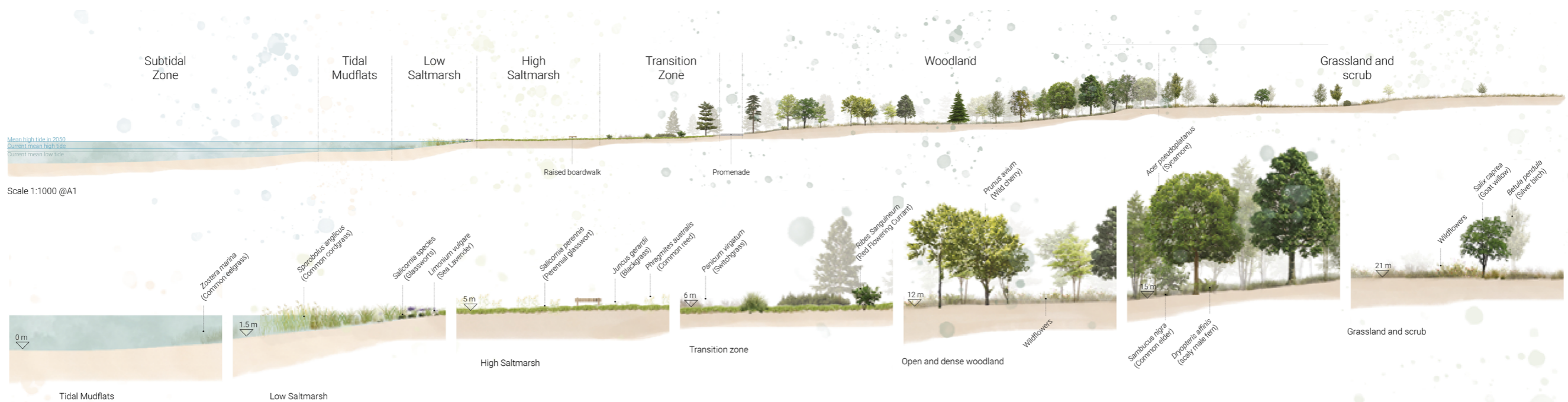
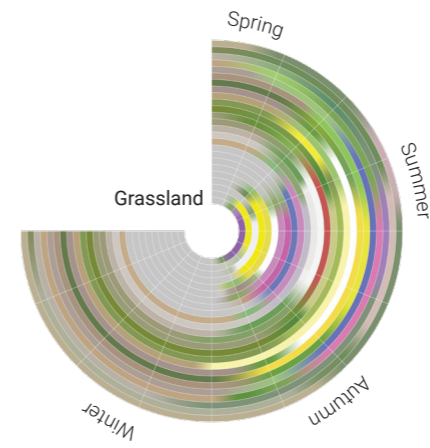
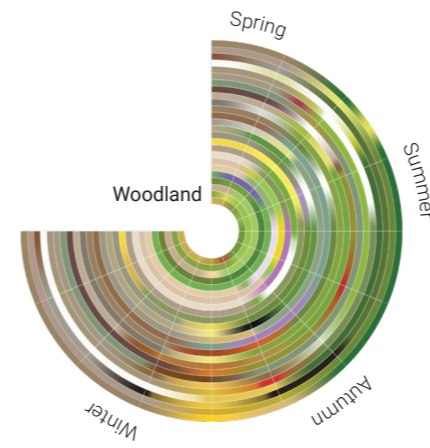
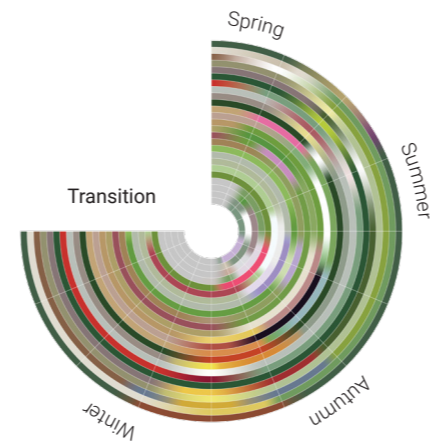
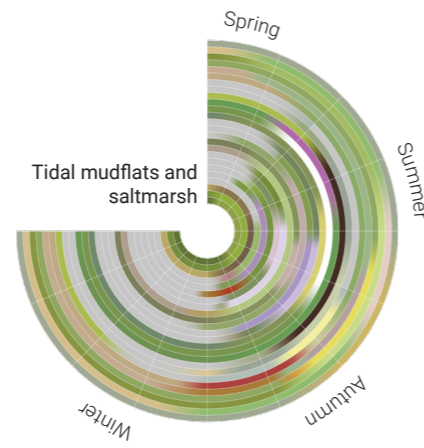
Habitat for birds, insects and mammals



Green terraces stabilize the slope



Pathways designed to be accessible



Granton | Wave of Change Visualisations

Raised boardwalk going out to the sea. "Looking Forward" sculptures seen standing in water.



Amphitheatre and reflection pool with gas holder in the background.



Green terraces sloping down to the coastline. "Forest Chandelier" installation on trees.



Country /City Newcastle Upon Tyne
University / School Newcastle University
Academic year 2023
Title of the project Coria Avon - Water's Meeting Place
Authors Victoria Hole

TECHNICAL DOSSIER

Title of the project	<u>Coria Avon - Water's Meeting Place</u>
Authors	<u>Victoria Hole</u>
Title of the course	<u>Landscape Architecture MLA</u>
Academic year	<u>2023</u>
Teaching Staff	<u>Usue Ruiz Arana, Stef Leach, Robert Golden</u>
Department / Section / Program of belonging	<u>Newcastle University APL</u>
University / School	<u>Newcastle University APL</u>



Written statement, short description of the project in English, no more than 250 words

Climate change mitigation is becoming increasingly more vital throughout practice in Landscape Architecture, wider professions and directly applies to the longevity and protection requirement of our historical assets. This thesis aims to provide a sustainable multi-functional solution to improve climate resilience across our landscapes, restore native habitats to reinvigorate our ecological diversity, and protect and enhance the interpretation of our heritage assets. By addressing the flooding issues at Corbridge, longevity and higher resilience can be promoted downstream towards Newcastle Upon Tyne and other urban settlements. The key factors influencing this thesis involve restoration and recreation of historic landscapes and flood plains to manage storm-water and periods of inundation to mitigate flooding both within the site and downstream. This must be balanced with interpreting historic landscapes and urban features through landscape interventions to promote engagement and understanding of cultural heritage. Yet a strong promotion towards enhancing Biodiversity through habitat creation and long-term re-wilding of lost landscapes is considered throughout. The existing site within Corbridge's Roman Town describes a narrow area which holds tremendous opportunity both within its environmental opportunities and its historical rejuvenation. This allows for intervention having been one of the most significant British sites within the Roman Empire.

For further information

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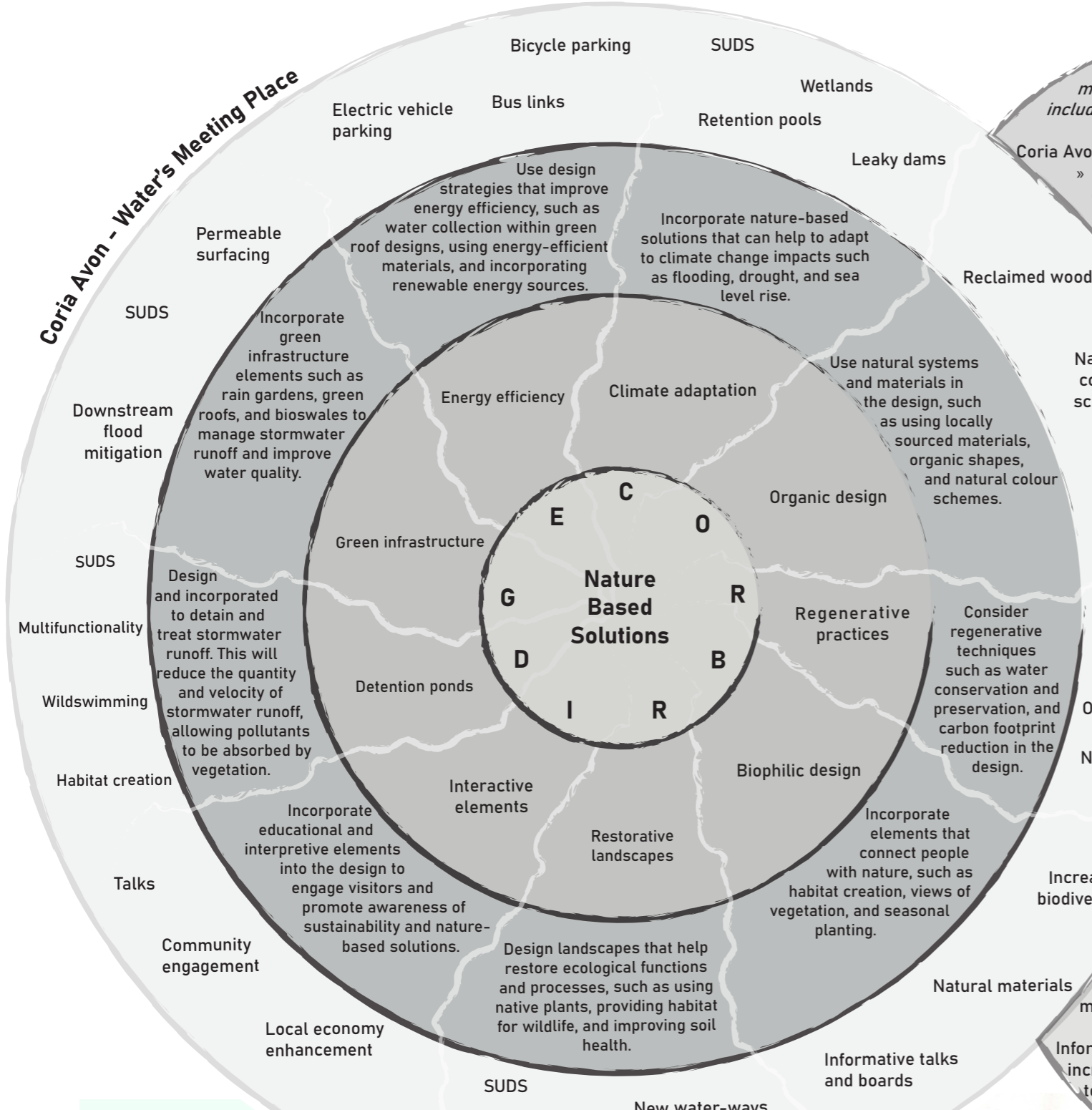
12th International Biennial Landscape Barcelona

Barcelona

November 2023

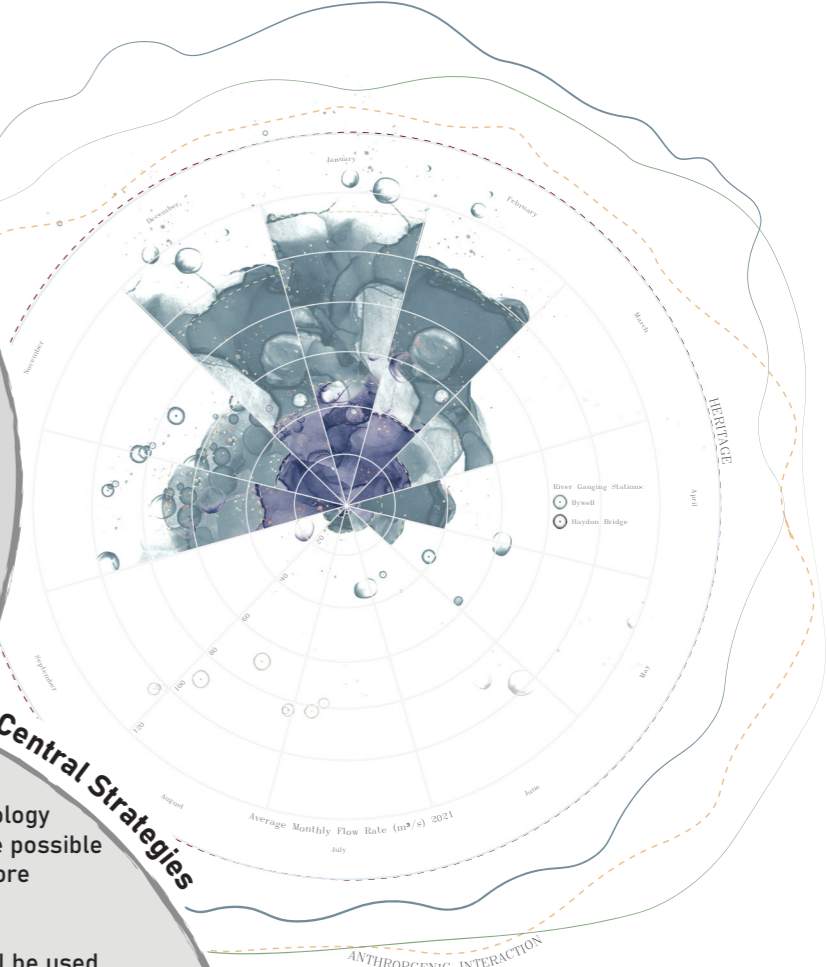
SCHOOL PRIZE

Coria Avon - Water's Meeting Place



Climate change will result in multiple atmospheric alterations, including increased precipitation events.

- Coria Avon will look to:
- » Decrease the issue of flooding further downstream of Corbridge and mitigate flooding issues effecting Corbridge itself.
 - » Raise awareness of green infrastructure and the benefits of nature.
 - » Promote increased engagement with the site of Coria Avon within the local community and wider scale tourism.
 - » Increase carbon sequestration.
 - » Reconnect and increase awareness of the site's history and culture.
 - » Promote healthy living and recreation.
 - » Enhance and preserve water quality, the environment and air quality.
 - » Promote increased biodiversity.



New habitats will be created to widen the biodiversity and ecology across the site including marsh and wetland sites. Existing ecology and vegetation will be retained where possible or replaced with a larger area in a more appropriate area of the site.

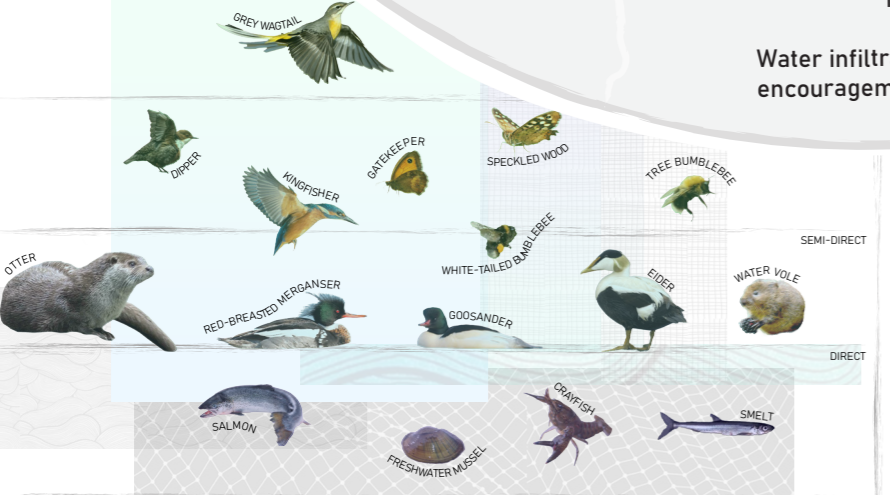
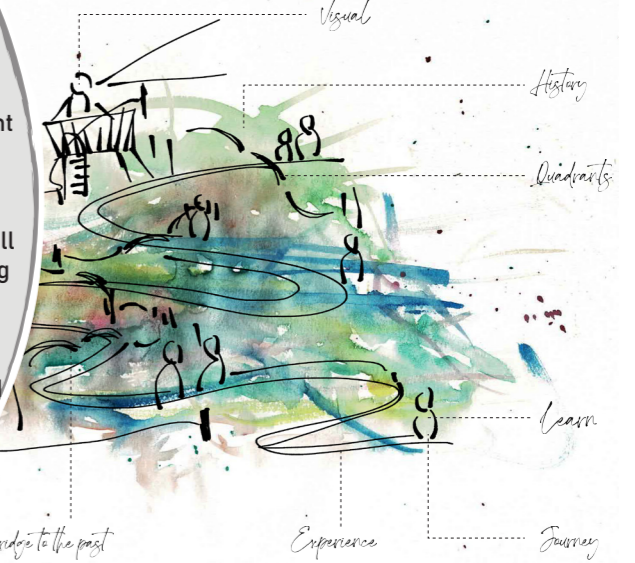
Natural flood mitigation strategies will be used including swales, retention ponds, leaky dams and additional planting to encourage increased infiltration of water into the ground below. High discharge precipitation events will be slowed down and controlled in order to decrease flooding. This will also provide a natural contaminant removal system within the soil, improving water quality.

Community engagement will be provided through talks, planting groups, activities and recreational opportunities. Local produce will be offered within the site's cafe, including the apples from site being offered to local sellers.

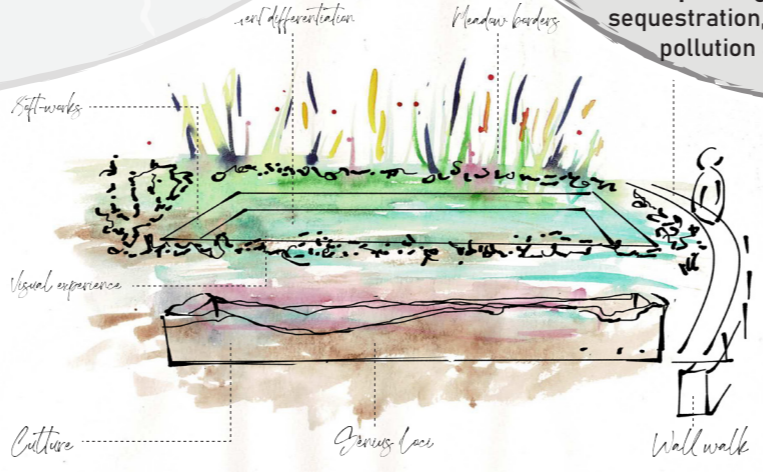
Recreation will be offered throughout the site to encourage all age groups to the site, including water sports, wild swimming, natural play and multiple trail routes.

Informative talks, information boards and guided tours will be provided to increase awareness of the site's history and environment, including how to increase sustainability.

Increased planting will promote wildlife, increase carbon sequestration, water infiltration, reduce noise pollution and increase site aesthetics.



Interaction with the River





Key:		Hard works	
	Site boundary		Existing Roman remains excavated
	Existing contours		Docks
	Proposed contours		Bridge
	Entry points		Look-out points
Soft works			Self-binding gravel
	Existing trees to be retained		Meadow Planting (varies in colour)
	Existing trees to be removed		Cafe seating
	Proposed trees		Decked pathway
	Orchard		Play-scape
	Amenity grassland		Central bound gravel pathways
	Woodland		Outer-wall walkway
	River Tyne		Admission booths
	Cor Burn retention ponds		Roman high-street stone paving with engraved coin and lighting features
	Green roof and museum		Leaky dam
	Mowed-finish grassland		Rocks
	Ornamental planting		Car park spaces on gravel surface
	Marshland habitat		Cycle parking
	Sensory and wild-flower planting		Electric car charging points
	Woodland under-storey planting		Platoon crossing
	Car park planting		Asphalt vehicle access

*In Corbridge's fields and meadows fair,
The ancient gods and goddesses there,
Each with their own sacred domain,
Rule o'er the earth, the sky, and the plain.*

*Flora, with her blossoms bright,
Governs the fields with gentle might,
Where primroses and violets grow,
And spring's sweet fragrance does bestow.*

*Ceres, goddess of the fruitful land,
Nurtures the crops with a loving hand,
Wheat and barley, fruits of the earth,
Her bountiful blessings they bring to birth.*

*Faunus, the god of the forest and glade,
Watches over the meadows and their shade,
Where hawthorn, elder, and wild rose,
Their petals to the summer breeze disclose.*

*Pomona, goddess of the orchard and tree,
Ensures the fruit ripens for you and me,
Apples, cherries, and all manner of fruit,
Sweet and luscious, their taste astute.*

*With each meadow and field, the gods abide,
Their power felt with each passing tide,
Nature's bounty, a gift from above,
Reminding us of their eternal love.*

*Through the seasons, the meadows change,
The gods' gifts, in constant exchange,
From spring's bloom to winter's frost,
The gods' grace is never lost.*

*In Corbridge's fields and meadows fair,
The gods and goddesses still hold sway,
Their legacy, forever bound,
In the beauty of nature that does surround.*

