

100 YEARS POST IMPLEMENTATION

Country /City United Kingdom, Edinburgh

University / School University of Edinburgh, Edinburgh School of Architecture & Landscape Architecture

Academic year <u>year 4 Undergraduate</u>

Title of the project Under the Canopy

Authors Tara Schwarze-Chintapatla

12

TECHNICAL DOSSIER

Title of the project Under the Canopy **Authors** Tara Schwarze-Chintapatla Title of the course MA (Hons) Landscape Architecture Academic year Chris Rankin, Sophie Tombleson, Hazel Mei **Teaching Staff** Edinburgh School of Architecture & Landscape Architectur **Department / Section / Program of belonging**. MA (Hons) Landscape Architecture University / School University of Edinburgh, Edinburgh School of Architecture & Landscape Architecture





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

To ensure the survival of urban green spaces in the 21st century landscape architects need to advocate for the multi-dimensional contributions that they can offer human and more-than-human species. Currently, underimagined urban social areas such as impermeable plazas and monoculture grassland parks are vulnerable to climate and biodiversity crisis. This project proposes new thinking about the power of the urban forest as a nature-based solution, reimagining current social spaces to be under the dappled shade and ecological haven of a tree canopy. Such changes require sensitive community engagement to foster a shift in perception towards the 'untamed aesthetic' of forests. Phased community action and design interventions allow time for an increase in public pro-environmental behaviours before the implementation of more contested design phases such as converting playing fields into social spaces under tree cover or designating their spaces as ecological zones and corridors. The development of pro-environmental behaviours allow communities to recognise and utilise these forest spaces as playscapes, classrooms and productive landscapes which promote human-nature connections. When co-designing with living organisms such as trees we hand over aspects of detailed design to them. These growing, fluctuating and seasonal more-than-human contributions to design are important features that influence atmosphere. They ensure the creation of dynamic and alive spaces in an often monotonous city life. Designing with trees reintroduces more-than-human species as a vital community in our social zones and allows humans to begin taking the role of a keystone species within urban ecosystems.

For further information

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November 2023

SCHOOL PRIZE



IMPROVED AWARENESS

IMPROVED CONNECTION

PLAY REIMAGINED

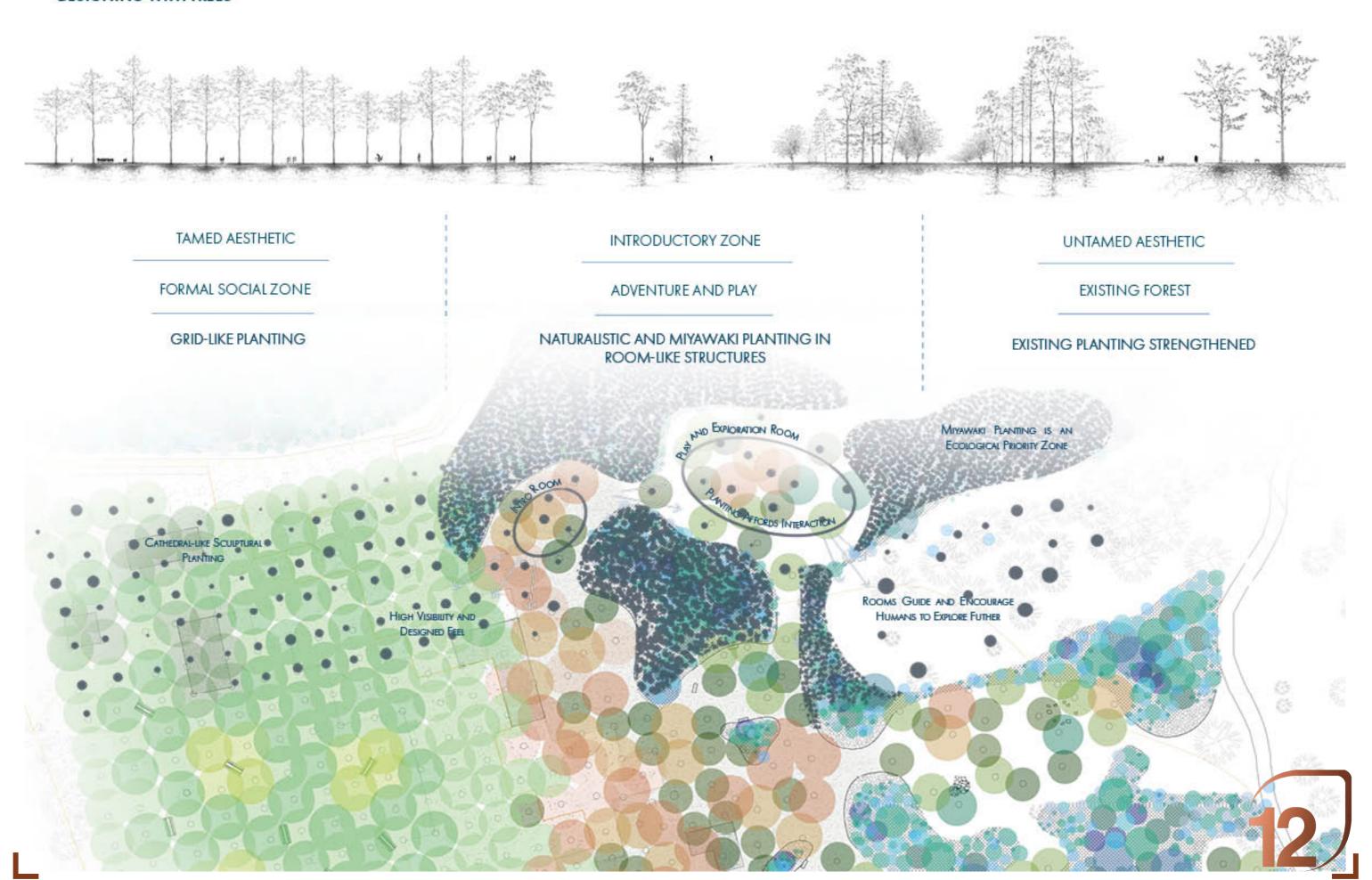
OPEN SOCIAL SPACES REIMAGINED

SPACE DISTRIBUTION AND EQUALISATION

GROWTH PERIOD



DESIGNING WITH TREES

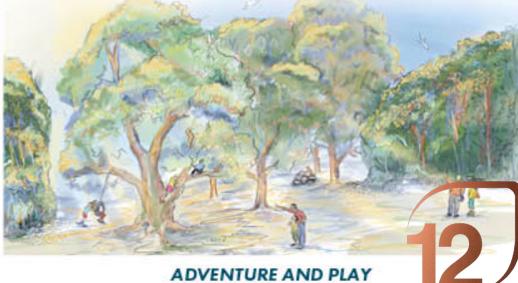


CHANGING PERCPETIONS, BUILDING PRO-ENVIRONMENETAL BEHAVIOURS



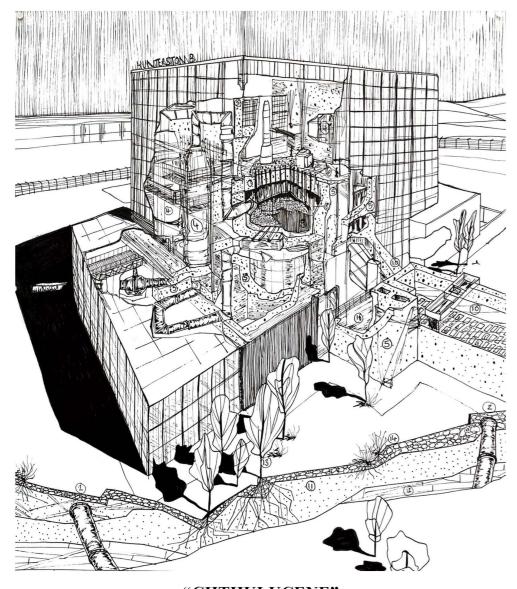


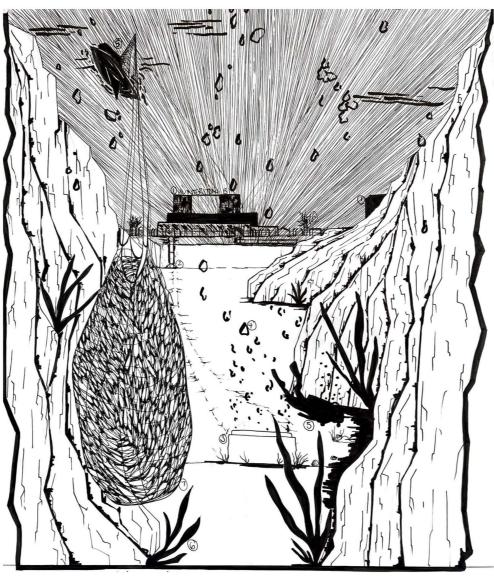




REFLECTION AND SOLITUDE

COMMUNITY AND LEARNING







"CHTHULUCENE"

OTHER-LAND: A sub-sea view

NUCLEAR CURRENTS

Country /City United Kingdom, Edinburgh

University / School University of Edinburgh, Edinburgh School of Architecture & Landscape Architecture

Academic year Postgraduate Year 2

Title of the project Nuclear Legacies: Exploring Human Traces in the Critical Zone

Authors Tilly Rigby

12

TECHNICAL DOSSIER

Title of the project	Nuclear Legacies: Exploring Human Traces in the Critical Zone
Authors	Tilly Rigby
Title of the course	MLA Landscape Architecture
Academic year	2022/23
Teaching Staff	Anna Rhodes and Anna Reid
Department / Section / Program of belonging MLA Landscape Architecture	
University / School	University of Edinburgh, Edinburgh School of Architecture & Landscape Architecture





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

Nuclear Legacies is a landscape architecturally-led perspective upon the vast scales of uranium extraction, processing, and nuclear waste disposal within our society. It comes as nuclear power stations have progressively forced us to ethically consider the longevity of our wastes, and the seriousness of what we impose on our shared environment. We contextualise a view favouring the disposal of highly radioactive spent nuclear fuel in an engineered geological disposal facility (GDF). Human-led nuclear legacies are preserved in spatial design that communicates both a warning and confession of the site's radioactivity. Spent nuclear fuel is buried 1km deep in the Earth's surface, underneath the existing station. We speculate on the future through human and more-than-human protagonists in relation to global environmental change and the half-lives of radioactive material. We seek to bring into a landscape perspective the scales and timescales of nuclear agency in order to address concerning colonial, extractivist, and resourcist land-related practices characteristic of the Global North. We continue to co-evolve alongside our fellow earthly inhabitants, and this project shows how landscape architural intervention can be applied in order to consider the destructive traces and legacies of what we leave behind.

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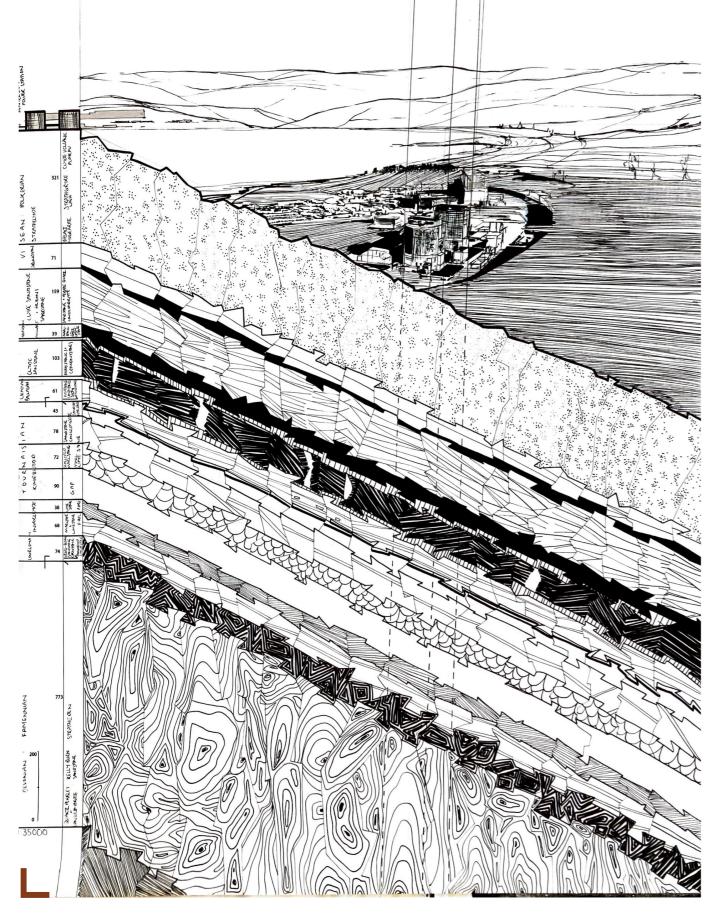
Barcelona

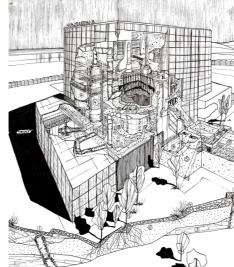
November 2023

SCHOOL PRIZE

Dynamic Systems at Hunterston

The Hunterston power plant sits in an inter-connected environment with rich more-than-human legacies manifested through the earth's deep time journey. Hunterston's context is linked to the geological fractures and faults, stratification and tidal flow that make up numerous dynamic processes. Ecological "isolates" are myth. Human technological intervention is an ecological process, and we speculate about the fallout of civil power generation. Two reactors operated at Hunterston" Magnox and Advanced Gas-Cooled Reactor (AGR). Both belong to a unique and complex system for reprocessing. Higher activity wastes (HAW) require disposal, or storage, for up to 1 million years. Human operated systems at Hunterston will characterise the deep future of its environment.





"CHTHULUCENE"

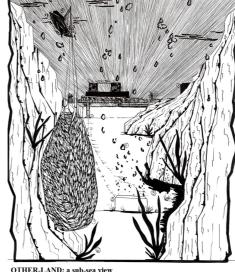
- 5. Main "biological shelds" concrete, 7th (main), 4th (secondary)
 6. Charge floor
 7. Charge thors
 8. Control rods (Boron, helps control reaction)
 9. Graphite core: containing Uranium rods (enriched uranium fuel), Graphite moderator (reduces speed of neutrons and sustains reaction whilst allowing flow of CO2 through tubes to cool reaction). Uranium fuel lifespan: 6 years in reaction, 500,000 years in half life
 10. Skip loading, storage, and storage pool: houses spent nuclear fuel for min. 50 years, before transfer to Sellafield
 11. "Made ground" at Hunterston: otherwise called "built-up ground", most of the site's topsoil has been stripped, leaving sub-base, concrete foundation, and other construction material

- material

 12. Kelly Burn sandstone sits below approx. 1-5m built up ground

 13. Fagus sylvatica, Betula pendula, Acer pseudoplatams

 14. Centaurim erythaca, Echium vulgera, Digitalus purpurea, Erigeron acer, Geranium robertiarum, Saponar officinalis, Filogo vulgaris



- OTHER-LAND: a sub-sea view

 1. Hunterston Nuclear Power Station (A and B)

 2. Water outlet: warm water passes through the pump house

 3. Water outlet: Firth of Clyde and the "Green Glow"

 4. Existing contact between marine and non-marine environments and radionuclides: discharges via water outlet pipes cause indirect effects and direct effects including the degredation of habitats, distinatance of species, labitat loss and damage

 5. According to SEPA's "Radioactivity in Food and Environment" report (2021), human contact with radiomuclides generally stems from food sources collected in the site's proximity- mainly fish, crustasceans, and molluses, and its particular with Hunterston's position on the Firth of Clyde's fishing environments

 6. More-than-human contact with radiomuclides, apart from "naturally occuring radon gases" and radioactivity in the Earth's geological structure

 7. Fishing in the the Clyde



- NUCLEAR CURRENTS

 1. Hunterston Nuclear Power Station (A and B)

 2. Flow and directions of warm and cold currents through the Arctic from AMAP and Icelandic Marine Research Institute (Arctic Portal Library (1.03.21), deposited 17 Oct.
- 8. Sellafield, Cumbria (England): the main site for Nuclear waste processing in the United

Hunterston Nuclear Power Station along the Great Cumbrae Fault (GCF), intersecting with the Highland Boundary Fault (HBF), Special Protection Area (SPA) and Site of Special Scientific Interest (SSSI) within 20km



Hunterston as Marker

To look specifically at the lack of long-term storage of higher activity wastes (HAW) in the UK, Hunterston as Marker considers a Geological Disposal Facility (GDF), and the ethical concerns for burying waste within the earth's geology. It acknowledges the material buried, and Hunterston's own history and legacy. The "Marker" is a reflection, a reality: warning and confession. Hunterston as Marker: Imagined in Plan The view of Hunterston as Marker from above, revealing the capped structure direct ressemblance to its original station skeleton, or geometry. Engineered surface design is seen in relation to Hunterston Castle and the Firth of Clyde. Symbols of radioactivity add to the surface-level message of communication for the communities, while the original geometry is its confession. Organic material Soil Construction

Coffee grounds and beer husks, traces of other waste networks in Hunterston's More-than-Human Inhabitants Construction material is recycled and assembled to form retaining dykes. Material is used for the gradual cap construction, which eventually encases the reactor houses. Both embody material monuments to the original nuclear A network of mole tunnels are imagined at 1:50 within the encased Hunterston marker system, and projecting the reclaiming of space by future non-human species. The future of Hunterston becomes tangibly post-human.

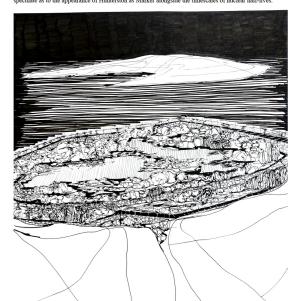
Imagined Future

Legacies of our own technological agency, in relation to the deep timeful processes of Earth.

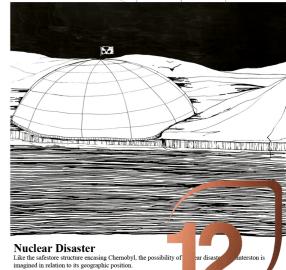


Under-Water

Alevel rise is set to be 1.3-1.6m by 2100. If sea-levels rise at the same rate, we can ppearance of Hunterston as Marker alongside the timescales of nuclear half-lives.



Jungle
With Great Cumbrae in the background, the marker becomes encased by more than-human specimaterial speaking to the sites original condition encases the toxic material forming the legacy of



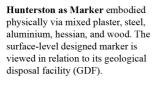
vicinity, are employed along with Pleurotus ostreatus mycelium, construction waste, water, organic matter (sourced at Hunterston's existing sewage treatment centre), and air in the construction of soils. This looks at the further engineered remediation of the nuclear site.

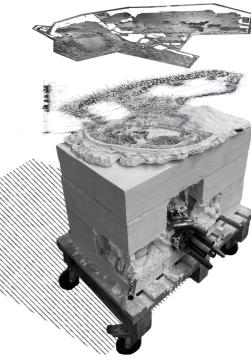
Embodying Hunterston as Marker

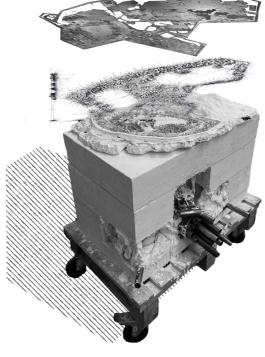
The successive reclaiming of space around the skeletal marker via more-than-human species. These allow speculation into the marker's future conditions with designed construction of soils. Mycelium begins the remediative process, followed by further more-than-human species, depending on the site's conditions. The succession of plant species creates a geography of human and more-than-human co-evolution in relation to the legacy of our nuclear realities.

Successional Speculation

Plasma-cut steel - Hunterston's skeletal shape at 1:1000 (A0) - sits amongst constructed soils comprising compost, beer husks, used-coffee grounds, crushed construction material. Mixed wildflower seeds are sown with beetroot and carrot in a condition testing the proposed remediation of soils at Hunterston. Beetroot and carrots represent the reliability of certain more-than-human species to easily absorb radionuclides. (Cente for Environment, Finders and Agacotines Source on behalf of the Environment Agency, Tood Standards Agency and Event Power Standards Agency and Agency Agency









Moles, moles, moles

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Mycelial Roots





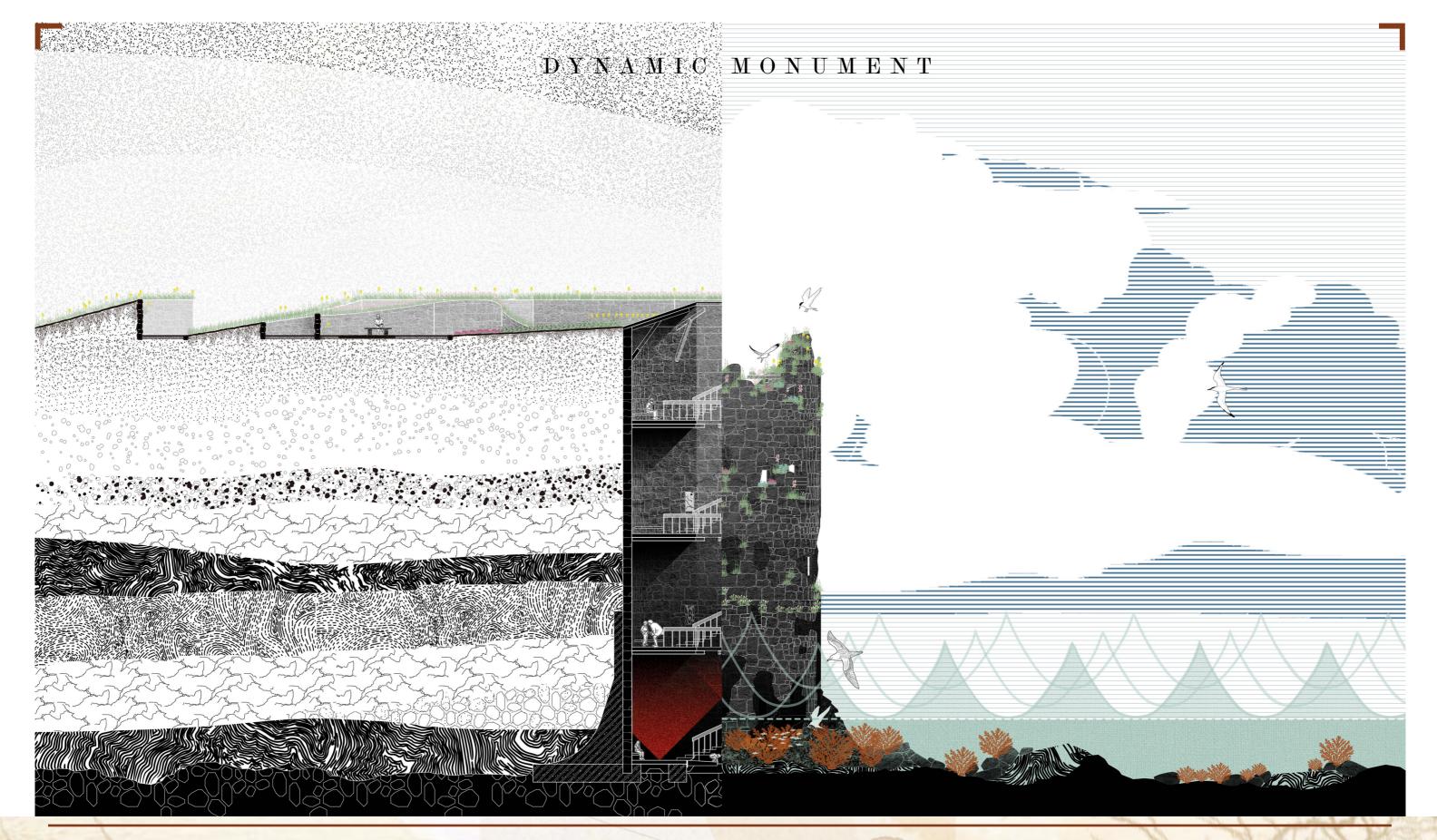












Edinburgh Country /City University of Edinburgh University / School Year 2 Postgraduate Academic year Dynamic Monument Title of the project Yanning Mu Authors



TECHNICAL DOSSIER

Γitle of the project	Dynamic Monumen
Authors	Yanning Mu
Title of the course	Landscape Architecture (MLA
Academic year	Year 2 Postgraduate
Teaching Staff	Miguel Domingues, Hazel Me
Department / Section	/ Program of belonging Edinburgh School of Architecture & Landscape Architecture
Jniversity / School	University of Edinburgh





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

The active geology of the Azores raises the guestion of how landscape can exhibit a dynamic essence of the place. Here, the land is in a natural cycle of creation and destruction, and the life of humans is deeply involved in this process. I am proposing a responsive park sequence in Capelinhos, the most recent eruption zone in the Azores Archipelago. As a central area of destructive and constructive natural forces, it is predicted to disappear by 2118 due to coastal erosion and climate change. The park sequence would then change responsively, being a tool to continue the narrative of the Azorean landscape and celebrate its essence and explore the possible position of man-made landscapes in a dynamic environment, through its life cycle of construction to gradually return to a part of nature. Consisting of five small parks scattered throughout the site, and a link system connects them as well as the outside world together, the project extends the space for human activity into this currently protected area, linking human life to this land of radical change. In each park, people can move horizontally in a 'Crater Garden' and vertically underground in the 'Vent Tower', exploring their inner connection with nature. In the future, when everything else fades into the waves, the ruins of the towers will become ecological hotspots like basaltic islands- miniature ecological refuges for endemic birds, intertidal plants, and the macro-algae community, and the life of the plants that originally grew in the gardens will continue elsewhere...

For further information

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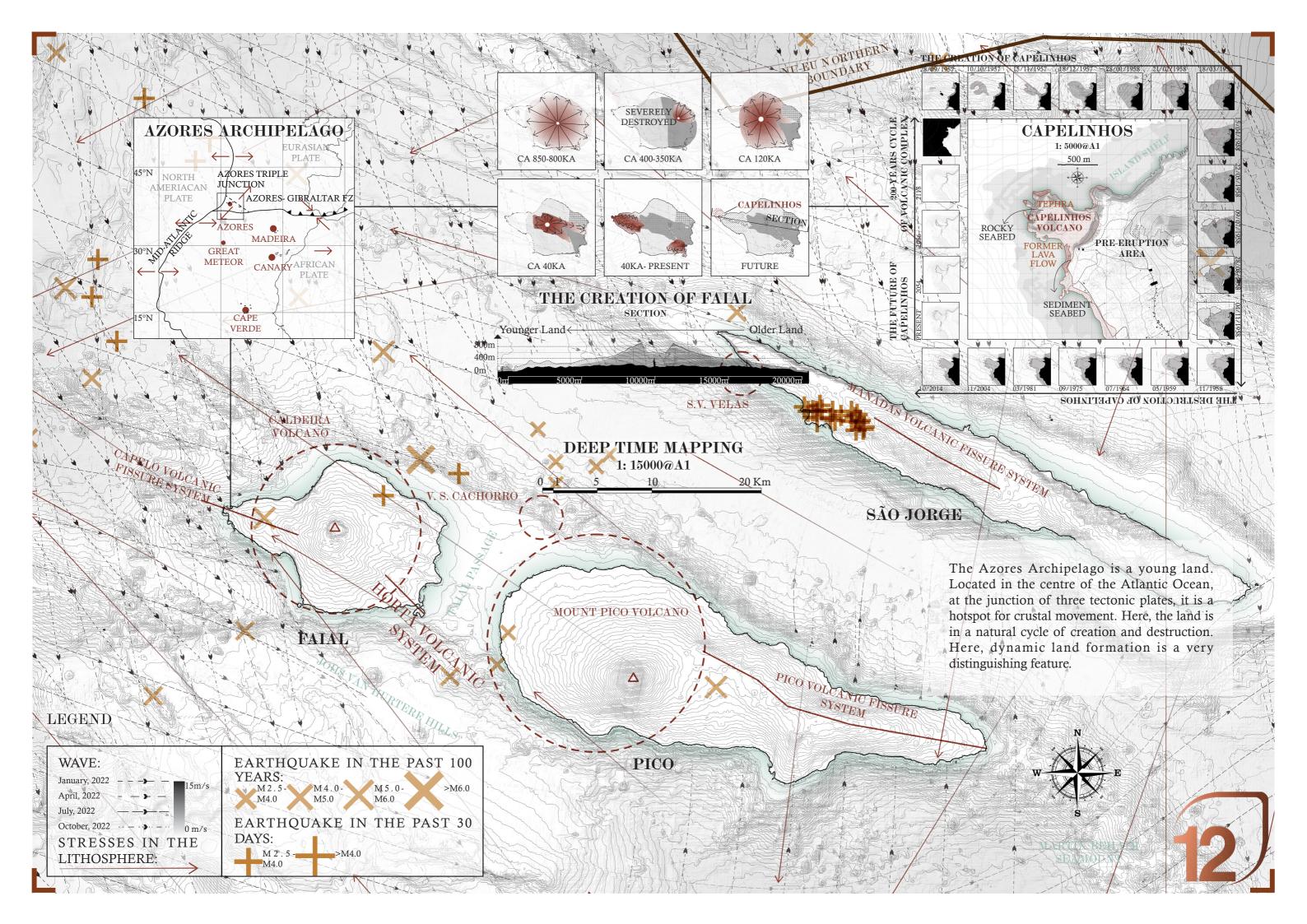
Barcelona

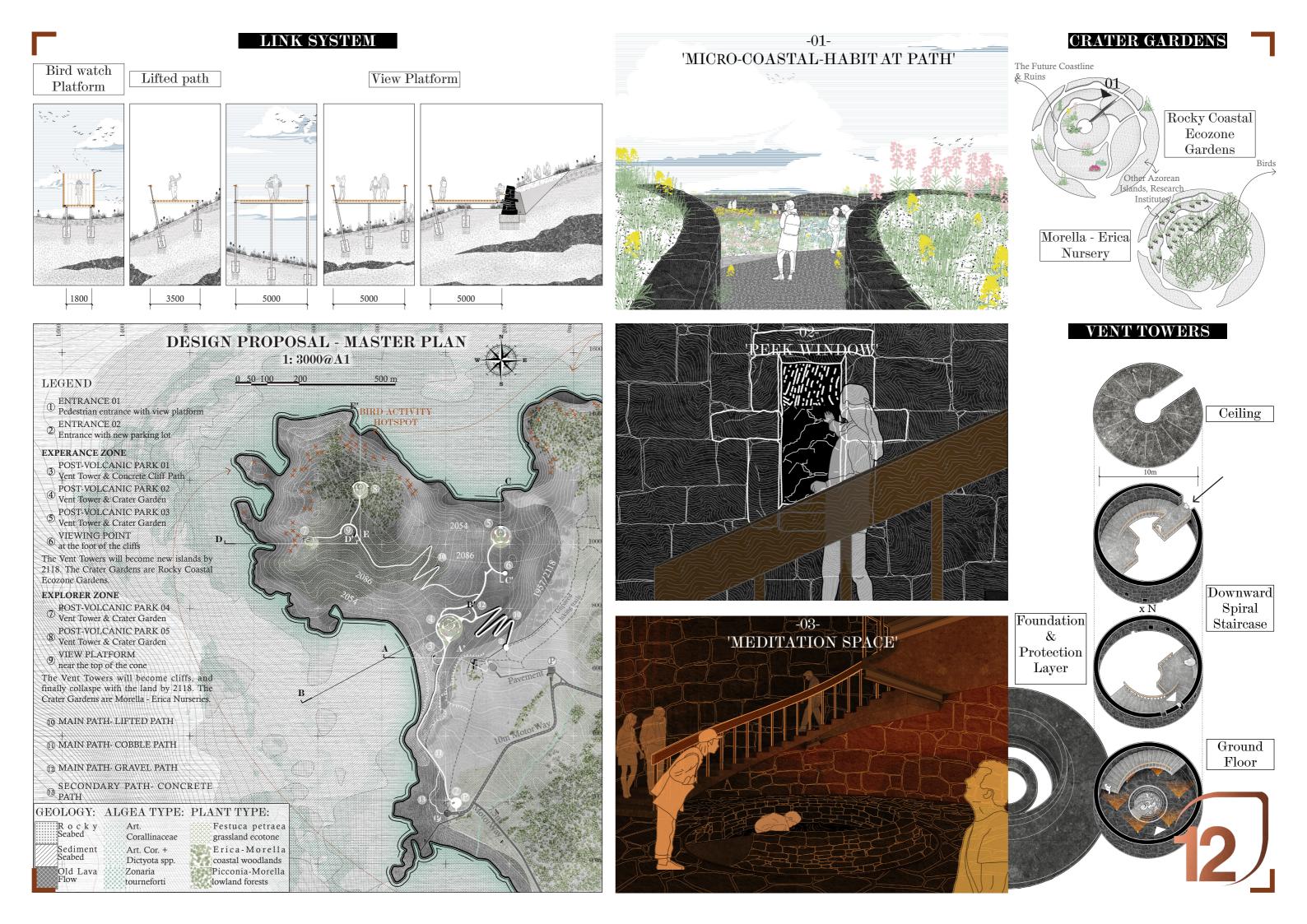
November 2023

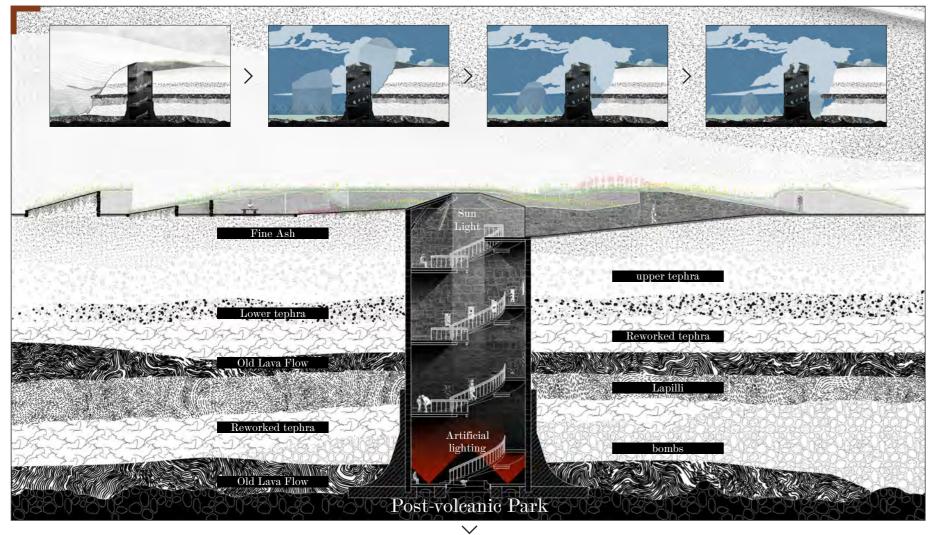
SCHOOL PRIZE

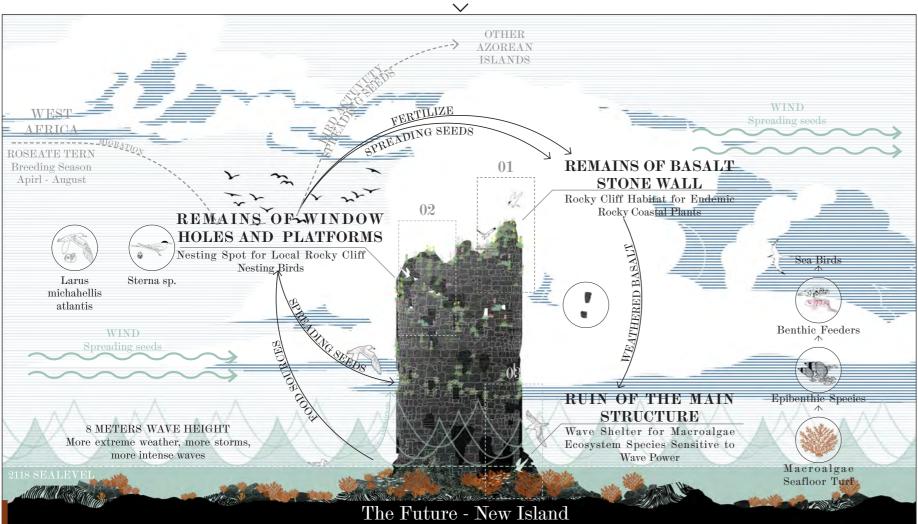
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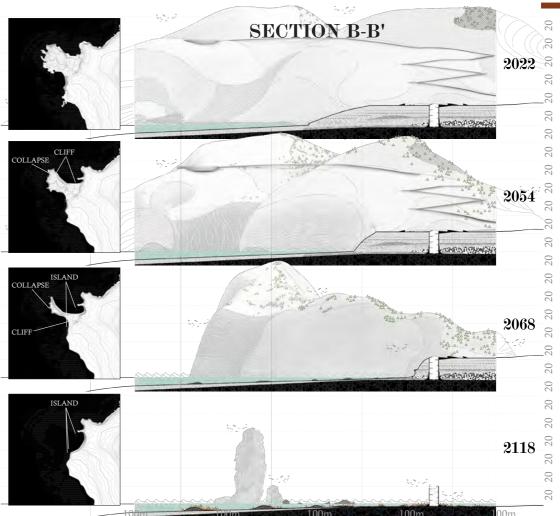
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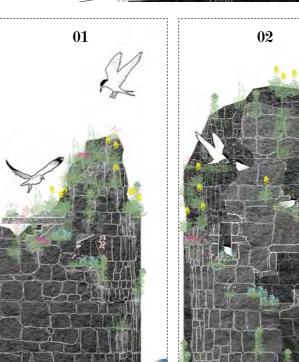
















COASTAL CLIFF CLIFF NESTING INTERTIDAL PLANT COMMUNITY BIRDS COMMUNITY

The project showcases the changes that occur in the hard materials and the transformation of spatial function, making it a dynamic monument resonant of the Azores. This expresses a positive purpose to human interventions in an ever-changing natural world.

COMMUNITY





Country /City United Kingdom, Edinburgh

University / School University of Edinburgh, Edinburgh School of Architecture & Landscape Architecture

Academic year Postgraduate Year 2

Title of the project Future Archives 2225

Authors Eloïse Mercer

■ TECHNICAL DOSSIER

Title of the project

Future Archives 2225

Authors

Eloïse Mercer

Title of the course

MLA Landscape Architecture

Academic year

Year 2

Teaching Staff

Norman Villeroux, Nikolaos Kourampas, Barbara Prezelj

Department / Section / Program of belonging Edinburgh School of Architecture & Landscape Architecture

University / School University of Edinburgh





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

'Future Archives 2225' proposes the transformation of the Vatnajökull Glacier in Iceland into a Botanical Park comprised of countless 'archive gardens'. Whilst each site responds uniquely to the notion of archiving, they are united by a regime of disturbances designed to encourage and sustain life for future generations to come, through a wider conceptual framework, a sense of materiality, and most essentially, a universal manifesto of ecological preservation and resilience during increasingly uncertain climatic futures. In accordance with a landscape defined by contrasts – the land of ice and fire - the project is designed by setting down moments of both stasis and dynamism, narratives of loss and hope, destruction and life. By recognising the need to preserve the significant cultural histories bound up in the transient ice of the glacier, the Archive transforms them into something tangible. It is a landscape of futurality: for the creation of futures that have a future. These are landscapes in a continual state of becoming, that embrace the indeterminacy of our future, and emerge from an active collaboration with the processes of glacial melt – locally - and all the atmospheric implications this incurs - globally. It is this philosophy of co-authorship, entanglement, and landscapes in becoming, that I believe to be imperative to the future of the discipline of Landscape Architecture amidst the climate crisis.

For further information

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SCHOOL PRIZE

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THE FUTURE RUINS OF THE SAUĐÁRDALUR

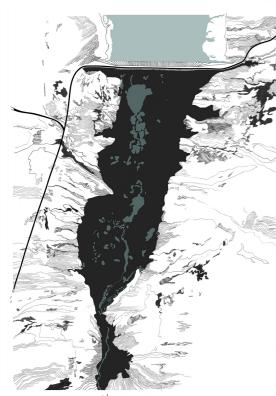
ARCHIVE GARDEN ONE

'Designs of disturbance': Proposal for the decommissioning of the Sayoardalsstifla dam for the creation of 'future rains' and the renaturalisation - and remediation - of the Jökulsa a Dal River.

Existing conditions of the Sauðárdalur Valley

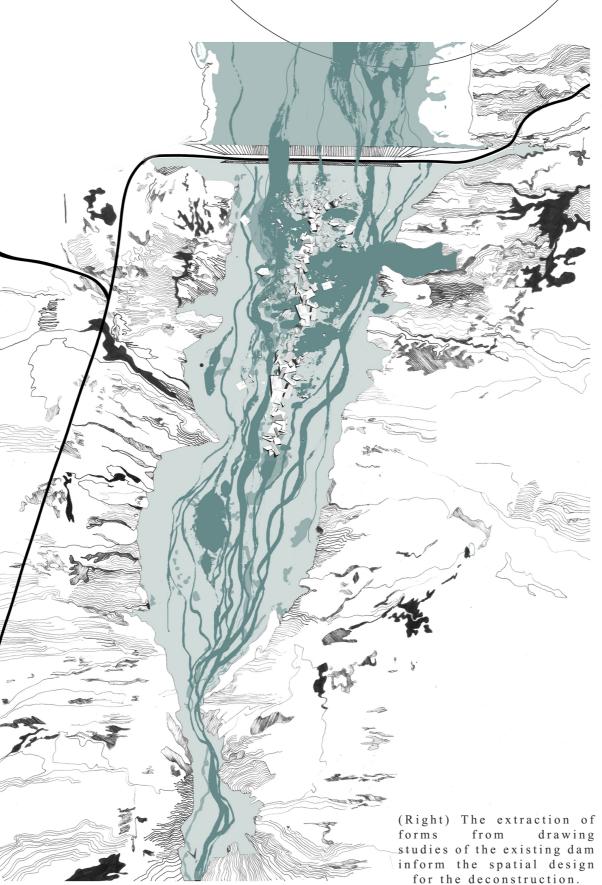






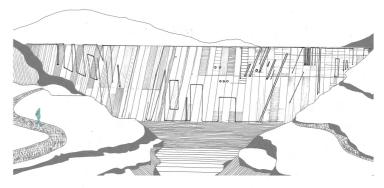
PROPOSED ELEMENTS

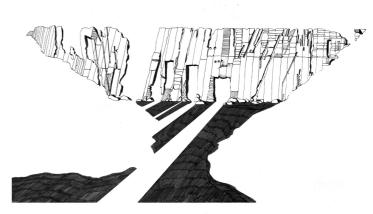
- Speculative bodies of water in the form of braided rivers and pools
- Emergent wetland landscape
- The enduring structure of the Sauðárdalsstífla
- Decommissioned road network to
 allow access to the ruins and a viewpoint over the valley
- Proposed walkway in its continual state of becoming
- Existing topographies and surrounding hills of the valley



The proposed choreography decommissioning of the dam employs the notch and release approach facilitate gradual s e d i m e n t deposition. r e s u l t a n t geomorphological alterations afford s i g n i f i c a n t ecological benefits for the river habitat and ecosystem. This design disturbance instigates rebirth of once-dynamic and vibrant valley, and evokes the creation of future ruins for the botanical park's first archive









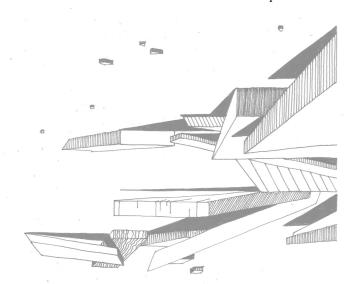
MATERIAL LEGACIES OF THE SAUĐÁRDALUR

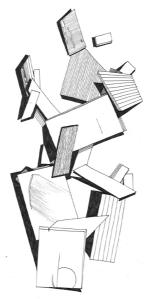
ARCHIVE GARDEN ONE

A landscape in co-authorship with the dynamic landscape processes and emergent ecologies of the valley: Proposal for a transitional walkway installation, 'iceberg' glasshouses for both birdwatching and workshop space, an artist residency programme, and the creation of new cultural traditions that honour the character, history, and indeterminacy of the landscape.



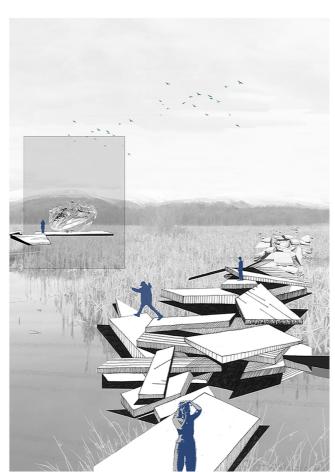
Artists Residence 2100 / Artists will be invited to inhabit the proposed walkway and glasshouses, to record the transitional processes of the landscape as it becomes increasingly liquid. This gradual yet continual accumulation of a physical future archive for the Vatnajökull Botanical Parks is complemented by the creation of new cultural traditions to draw people into the realm of this hidden landscape.





(Left) Initial concrete installation

(Below) The complex experiential dimension of the site: The ruins hope to encourage spontaneous and varied use, inspiring visitors to reflect, explore, observe, play, or create. It should be a different experience not only for each user, but each year, season, or occasion of their visit.





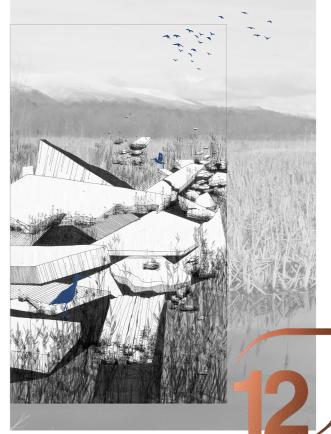
The materiality and form of the walkway is one that will continue to extend and erode in tandem with the ruination of the dam itself. What begins as a large-scale landscape installation will be permitted to move and gradually disintegrate according to the force of the waters from the reservoir. The proposal is therefore an indeterminate, open-ended, transitional design, in a continual state of both creation and destruction, and a continual state of becoming.

Post-glacial micro-ecologies that may inhabit and co-author the landscape in the coming centuries. The colonisation of mosses (such as Racomitrium canescens, below left) facilitates future soil production and initiates processes of ecological sucession necesarry for the remediation of the Jökulsá á Dal wetland.





Microorganisms (such as Acidobacterium, above right) play a pivotal role in regulating the microbiome of soils and sediments, and actively collaborate in the continual ruination and erosion of the design.



FOREST LABORATORIES / GLOBAL ECOLOGICAL RESILIENCE IN THE AGE OF THE ANTHROPOCENE

ARCHIVE GARDEN TWO

Proposal for a series of Experimental Forest Laboratories at Skaftafell: [Future/Ancient] Caledonian Pinewood for the preservation of disappearing landscapes

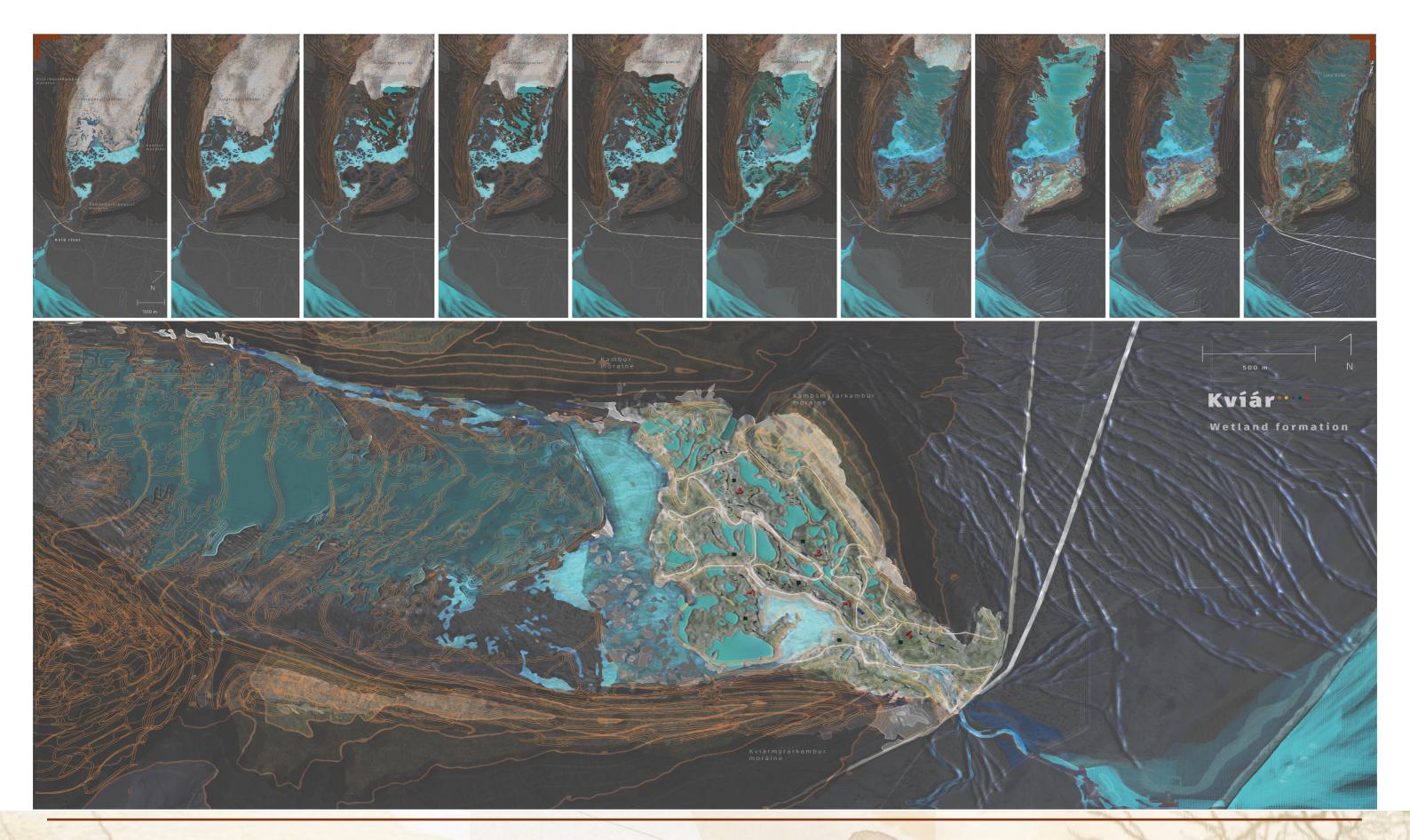
The proposed forest laboratories exemplify the Park's manifesto of shared materiality, through re-use of materials reclaimed Proposed Laboratories following deconstruction of the dam in both its hard and soft landscaping. Constructed soils stimulate new life Existing conditions Constructed soils The proposal for a series of through disturbance, experimental forest monumental concrete laboratories at Skaftafell walls encase these soil represent efforts to establish 'islands', and winding represent efforts to establish concrete steps offer the in times of deeply uncertain unique atmospheric global ecological resilience climatic futures, and a degree experience of stability in what is transitioning distinct forest worlds. currently a deeply unstable landscape. The laboratories place emphasis on research and experimentation within the field of urban woodland design and implementation, as an attempt to demonstrate what is possible in future efforts of reforestation and 2 / Transplantation 4 / Colonisation

5 / Maturation, and the establishment of Iceland's first ancient woodlands.



1 / Construction -

conservation.



Country /City United Kingdom/ Edinburgh

University / School University of Edinburgh, Edinburgh School of Architecture & Landscape Architecture

Academic year Postgraduate Year 2

Title of the project Kvíár_A Guerilla Playground for More-than-Humans

Authors Sofia Maria Anthopoulou

Title of the project

Kvíár_ A Guerilla Playground for More-than-Humans

Authors

Sofia Maria Anthopoulou

Title of the course

MLA Landscape Architecture

Academic year

Postgraduate Year 2

Teaching Staff

Norman Villeroux, Nikolaos Kourampas & Barbara Prezelj

Department / Section / Program of belonging Edinburgh School of Architecture & Landscape Architecture

University / School

University of Edinburgh







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

The Kvíár Project revolves around the processes unfolding at Kvíárjökull glacier, Iceland. This glacier continuously shapes new layers of topography, and we as parts of these layers, now turn our attention to the density of existence and intersections of life in the thickness of geological time. By identifying stages of instability and complex ecological and social systems relations, we recognise the interconnectedness of the glacier, the geomorphology, the sediments, the humans, and the more-than-human as entities. This expanding notion of agency calls us to co-create a landscape figure, through spatial & experimental interventions gently woven into the landscape by these relationships. Through this figure, we are reminded of our social and ecological accountability in the choreography of politics of climate change. Establishing a guerrilla playground for more-than-humans, a space for reflection and experimentation, a playground transcends the boundaries of Kvíárjökull, connecting to other places in Iceland and potentially expanding across the globe. It creates spaces for movement, not just physically but also as an act of "performing" in unconventional grounds. We become active participants, shaping our understanding of the world. In close collaboration with the local community, the aim is to empower and inspire them to take ownership of their environment. Kvíárjökull glacier is a place where social and environmental narratives and potentials for transformation can flourish. Embracing uncertainty and unpredictability becomes paramount, allowing us to emerge and recreate responsive landscapes. We recognise the glacial landscapes as responsive landscapes, constantly evolving and adapting to changing circumstances, bridging micro and macro scales, and connecting the site to Iceland and potentially the global scale.

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COAC - Colegi oficial d'Arquitectes de Catalunya

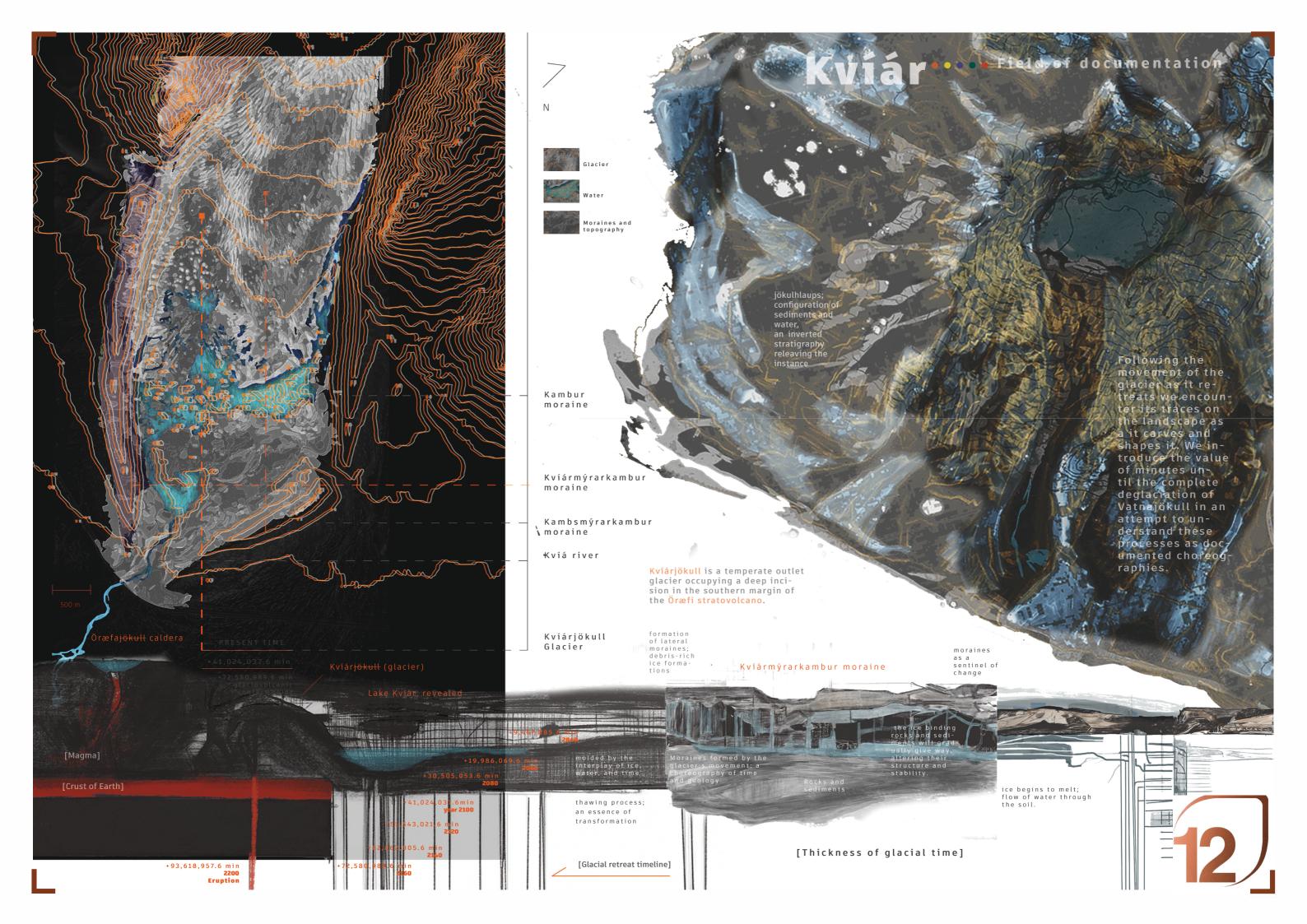
Carrer Arcs, 1-3 08002 Barcelona - Spain

12th International Biennal Landscape Barcelona

Barcelona

November 2023

SCHOOL PRIZE



Kvíár....

Field of Action

Create through proximity, distance, intimacy, ruptures, explosions, silences, a spontaneous, internal coherence. Diversity and collaboration are the basic demands an opening to the social space of the glacier, humans and more-than humans.

Moss catcher

2023

EXPLOITATION

NATURAL RESOURCES, HUMANS

heavy industry, tourism; affecting the fragile moss, water shortage violation of human rights construc

Moraine continuum

2030

Event

EXPLOSION

OF DAM

DETONATION

Eco-activists, farmers and communities, blow up the Kárahnjúkar Hydropower Plant's Dam farmers, year 1970

Collective playground

2060

DRIFTING

Event

DRIFTWOOD SUPPLY COLLAPSE

Anthropogenic sea- ice loss & reduction of sea-ice extent, is icreasing the open-water disand Iceland in a way that no Icelandic coast as early as 2060

Ecological happening

Geothermal power plants in op-

eration in Iceland; Hellisheiði,

Nesiavellir, Revkianes, Svartsenai Krafla and Theistarevkir.: around

deformation in relation to eeother mal utilisation have been under-

taken at Krafla volcano in North

2090

ENERGY

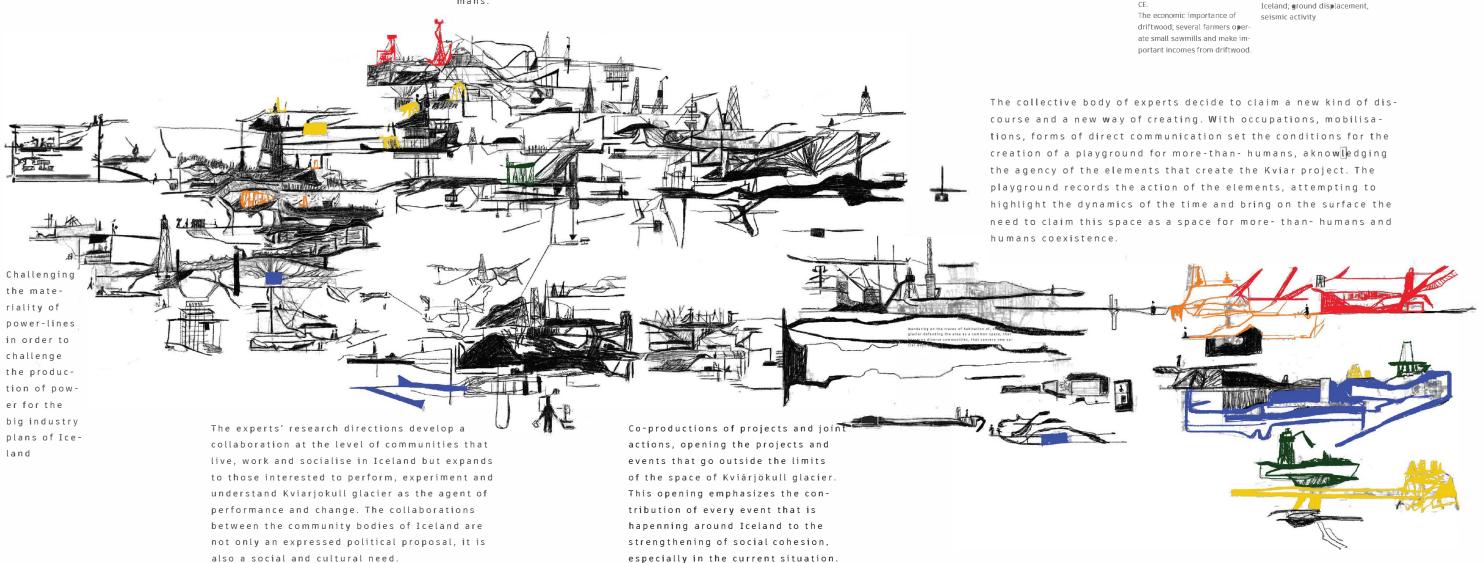
EXHAUSTION FISHING

Event HARVESTING OF OCCUPATION GEO-THERMAL OF SEA

> overfishing, illegal fishing and the combined effects of ocean-based activities and climate change on resources

gesture

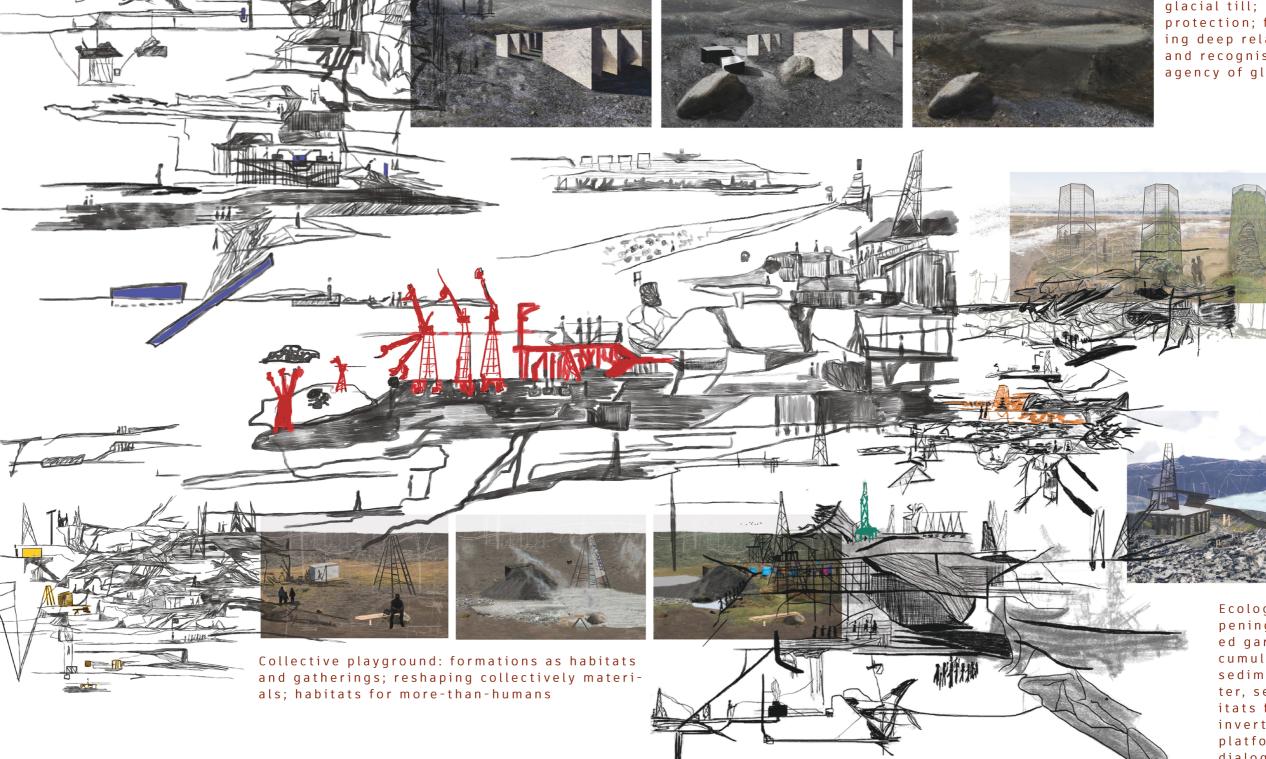
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Kvíár·····

Field of Interventions

Situations as intervetnions: collection of eventful & reclaimed materials; mixing happenings, creating future bonds with land and water; habitats for humans and morethan-humans; workshops and performances



Moraine continuum:
Reusing dismantled
pieces of the dam,
accumulation fo
sedimants, layers of
glacial till;
protection; fostering deep relations
and recognising
agency of glacier

Ecological happening: elevated garden, accumulation of
sediments, water, seeds; habitats for birds,
invertebrates;
platform for
dialogue and
reflection

12

Moss catcher: experimentation;

change

creation of synergies, marking of wanderings; consideration of Icelandic heritage and recognition of moss as an agent of