Anthropocene by Megan Riri Moktar

Museum of Humanity's Memory ASD Core 2 Studio 2020

Contents

- 1. Core Studio Brief
- 2. Studio Brief
- 3. Cultural Context
- 4. Project Brief
- 5. Site
- 6. Project Diagrams

Concept Diagram

Project Diagram

Circulation Diagram

- 7. Screen Shoots
- 8. Process

Cultural Context Process

Project Process

9. Reading Responses

Core Studio Brief

'The Digital Archive: An Exploration of the Threshold between the Real and the Virtual'

CORE STUDIO 2 / 2020

Coordinator: Eva Castro

VR/AR Workshops: SUTD Game Lab

Studio Leads: Federico Ruberto Jason Lim Calvin Chua Deniz Manisali "Today abstraction is no longer that of the map, the double, the mirror, or the concept. Simulation is no longer that of a territory, a referential being, or a substance. It is the generation by models of a real without origin or reality: a hyperreal. The territory no longer precedes the map, nor does it survive it."

Jean Baudrillard

Architecture Core Studio 2 expands the scope of architectural problems to rather open up to the world of potentials and possibilities within a projective field: that is the responsibility to refute, to counteract and to respond, generating a critical discourse. If on the one hand we would argue that such stance implies first and foremost to attain a holistic and critical understanding of the world and the issues that future generations face -and to grasp how such issues can be affected by our actions within our disciplinary field, on the other hand it supposes the urgent development of techniques that can liberate thought from the local place -site, type & time, for making design-agency to care about the future, the universal conditions and to start grasping new notions that will inevitably lead to the invention of new forms of archive, production and inhabitation.

We will foster within the projects a sensitiveness –much like the one of an artisan, one that stems from the utilization of certain tools and that develops by crafting together skills and end-pieces. The final work shall thus be a synthesis of the relationship between design-agency, future experience and the employment-integration of such tools in the design process; it should present an exploration of what at core is the creative potentiality of such tools and their capacities to make us not visualize but envision experiences other. To such end throughout the studio the students will be introduced to VR as means of production. VR will be taken not directly as a means of phenomenological representation, not only, but as a new tool through which design could challenge aprioristic notions of place, type and narrative, meaning, questioning the linear-accumulation of commodified experiences of spaces, in time. Within this hyperreal context the relationship between what we call 'material' and 'digital' will need to be readdressed and thus become the main driving core of the projects. As designers we must deal with a context in which experience is modeled and lived; as designers we must find a way to hold back the 'real', after its post-modern questioning; as designers we must still find an answer out of the predicament that is pictured by the following words by Jean Baudrillard: "Illusion is no longer possible, because the real is no longer possible. It is the whole political problem of parody, of hypersimulation or offensive simulation, that is posed here".

Our program will be informed by the cultural contexts of:

- + future growth, problems related to spatial limitations;
- + data storage problems of any sort, material and digital that will necessarily needed to be archived and accessed—cemeteries (corpses), municipal (data and historical files), libraries, museums (artifacts), biological (seeds and genes);
- + memory cultivation and preservation: a spatio-cultural issue that presents both, material/physical limitations and digital/intangible potentials.

The studio shall thus carry one project-building throughout the term that engages the students by asking to develop programs related to the experience of archives (storing-displaying- engaging facilities). At the end of the studio students are expected to be able to translate spatial-material-programmatic-representational ideas into visual narratives from which a comprehensive architectural proposal, digital and otherwise, emerges to articulate programs driven by the necessity to archive and to display.

Studio Brief

Students

Chew Yunqing
Chong Shi Qing
Chua Bing Lun
Hkyet Zau Mun Aung
Keith Lim Jung Hong
Kyaw Zwa Thant
Lee Xuan Ying Diane
Lin Yi-Ju
Mauricio Mari Jaelle Salas
Megan Riri Moktar
Sruti Niranjan
Tim Yap Ming En
Tseng Yun Ching
Tsou Li Tian Matthew
Yang Yu Bing

Museum of Humanity's Memory

The document is not the fortunate tool of a history that is primarily and fundamentally memory. In our time, history is that which transforms documents into monuments. In that area where, in the past, history deciphered the traces left by men, it now deploys a mass of elements that have to be grouped, made relevant, placed in relation to one another to form totalities; it might be said, to play on words a little, that in our time history aspires to the condition of archaeology, to the intrinsic description of the monument.

-- Michel Foucault, "Archaelogy of Knowledge."

The Studio is working on 'A Museum for Humanity's Memory', where records of our past experiences are stored/fragmented and displayed/displaced. The museum will be a collective assemblage of our individual and collective memory as a society in the future.

The context is set in a dystopian world where the land is scarce and we are forced to live on/under the water due to rising in sea levels and climate change. Physical mobility is restricted to minimum. It is a world where humans are trapped between the virtual and the real under the ocean bed. Boundaries are blurred. Experiences are neither nor.

The civilisation as we know it ceased to exist along with it's cities and our belongings along with it. We are forced to rely on our Memories as a civilisation. Memories are what connects us to our previous selves and to our futures. Our memories are the only record of our past, today and future.

"The archive as the privileged place for the experience of this temporal displacement is the archive as heterotopia; in this respect, archives are collections of time slices, of anonymous language; places of different experiences, for experimentations, and places that might permit the creation of different pasts, traditions or individualities. Of a double nature, archives are at the same time that which produces and reproduces the well-known and familiar and that which allows for ruptures and breaks with the past and the advent of something new. The archive creates, and it is created." (Ove Eliassen Knut, "The Archives of Michel Foucault")

The biref examines the definition of the Museum 'as a heterotopia' and the process of archiving as a way to connect our collective and individual history and keep record of our present for the future.

Our focus is on the Spatial Archiving of Humanity's Memories of Past as a Record of our Civilisation, focusing on the conceptual understanding of Archive as a series of events, disruptions, discontinuities and multiplicities.

Each Porject is looking into different aspects of past civilizations as a tool to build a network of Memory Spaces for the Future Civilizations. The projects are informed by today's society's cutlural context in order to speculate on the future. Each project focuses on an aspect of our Culture through the lens of a Memorial/Museum Space in order to emerge new meanings and connections among the society. The designs investigate the negotiation between the Physical and Virtual Spatial Constructs.

Areas / Project Requirements:

Entry / Information :200m2
Main Exhibition Space :500-1000m2
Specialised Exhibition Spaces :500-1000m2
Museum Archive / Technical :500-1000m2
Resting / Interaction Spaces :500 m2
Circulation / Storage Spaces :500m2
TOTAL :3000m2

Anthropocene

Museum of Humanity's Memory



The studio collectively built the scenario of 'living on/under the ocean' and all projects are situated within this context. The geographical conditions are set as hideaways for the future civilisations to survive, seek protection and strive.



Climate Change and rising Sea levels have forced civilizations to move to the seas. Due to Climate Change and environmental disasters, Pandemics and Wars have left the surface of the earth unlivable. Since land was not habitable any more, societies were forced to search new environments for survival and the remaining civilizations moved to the Ocean.



Geography

Most of the civilisation have sunken below the sea level, pandemics and natural disasters have destroyed all habitation on land. Landscapes are heavily constructed - an icon to the Anthropocene epoch.



Culture and Social Classes:

Societies are forced to redefine themselves. Collecitve history has been wiped clean along with the life on land. Societies are trapped to small colonies underwater



Technology

Technology has enabled humans to live in a world of AR and VR to mask the destroyed landscape as a result of climate change. It has also allowed for smooth transitioning from wet to dry environments wherever and whenever necessary. Both augmented and virtual projections are made through VR lenses that humans wear all the time.



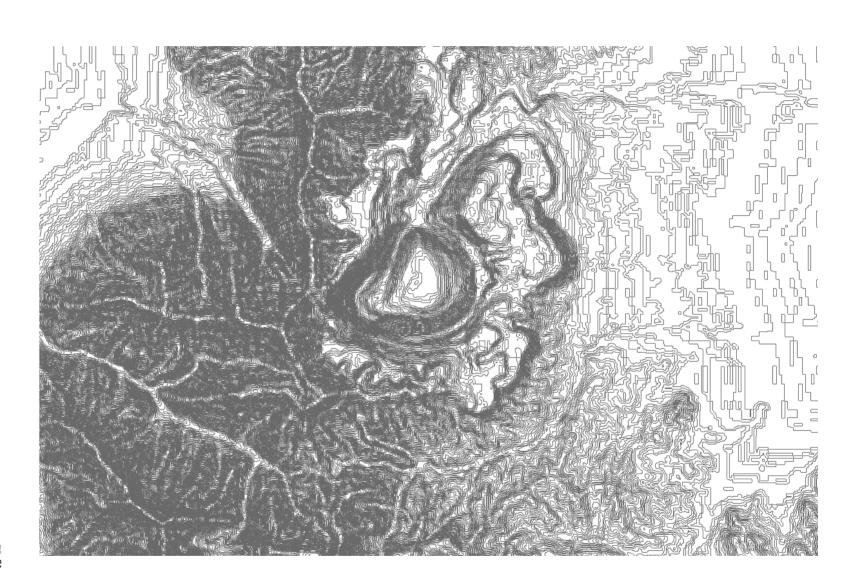
3200. The Earth is about 1000 years into Anthropocene and civilization has been taken over by global warming and climate change. Places above the sea level is hardly habitable as it is enveloped in pollution and high temperatures. The collective effect of the sheer weight of the rubbish, melted ice caps, and expansion of sea water, is the mass migration of humans into the ocean. Humans are now confined in underwater structures about 50 meters to 10 meters underwater.

The museum of memory sits on a large constructed landscape, which is extensive both in breadth and depth. Over 1000 years ago, before the apocalypse, this landscape used to be an open pit mine for copper and crystals, with resources that extend kilometers deep within the mountain range. It is amongst the biggest relic landscapes of the Holocene-Anthropocene transition period, almost like an icon to the afore-mentioned epoch.

The Museum is a part of network of Museums that are commemorating the series of event leading and relating to the Anthropocene. It commemorates the history of the landscape as well as the processes that has created this relic landscape. It. This is done through introducing visitors to resources that was, and is still being extracted from the earth, and the damages that the extraction process caused. Visitors would also see through the landscape's evolution over time, in reverse, and then be given the chance to experience the untouched environment through immersive reality. The Projection of the future environment, and what humans could do to offset the damage, would also be shown to the visitors. The main aim of these experiences is to help visitors understand the adverse impacts of the small things they take for granted, as shown in the contrasting environments of the past, present and future. Towards the end of the exhibition, visitors would be given the chance to negotiate and discuss with one another to build the desired environment thAat they want as a collective.

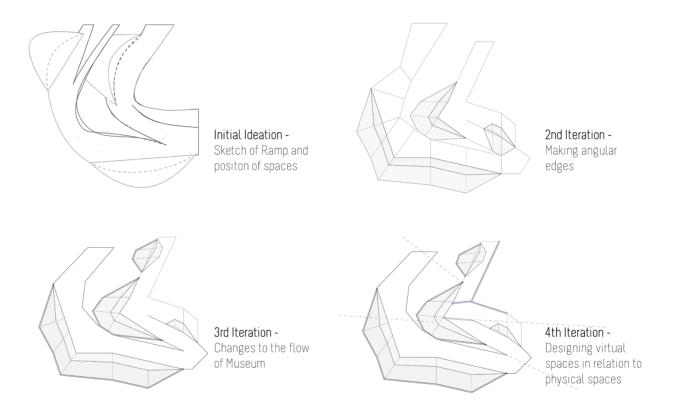
In addition to discussing about matters relating to the environment and the geographical evolution of the earth, the museum of Memory also discusses about humans' experiences as nature evolves over time, though in a more subtle manner. This is to convey that humans' experiences are also a huge part of this evolution. This could be in the form of exploitation of manpower as the environment is being constructed, or the sheer impact of the changing environment on humans' quality of life itself.

Hence in the world building exercise, the Museum intention is for the visitors to consider both the interests of humans and nature in the building process of their collective environment. The museum will then conclude with the final product, a holographic projection of the desired landscape as a small-scale monument that will be archived each time it is being made. These small-scale monuments are for people in the near or far future to look back and reflect on how their relative past, present and future evolve, and how people's idea of an ideal environment change along with it as well.

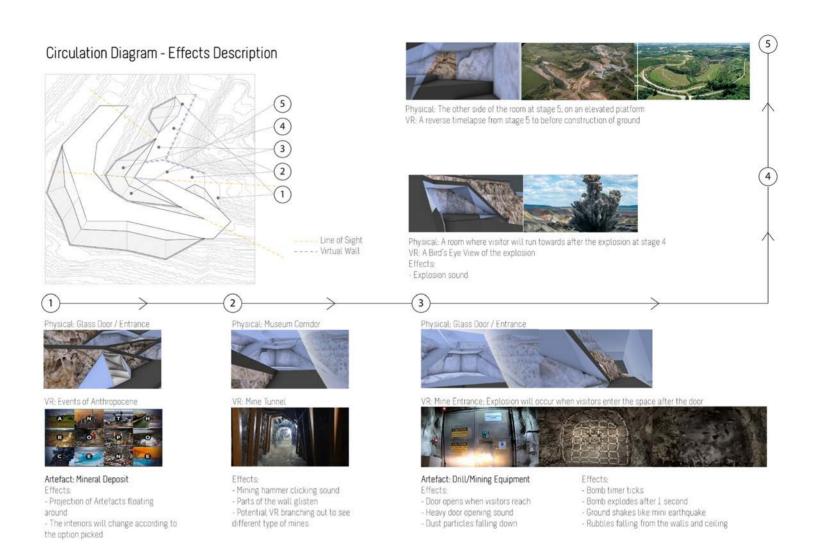


Description of Drawing Chosen Site - Open Pit Mine

Design Iterations - Approach 1 (Triangulation)

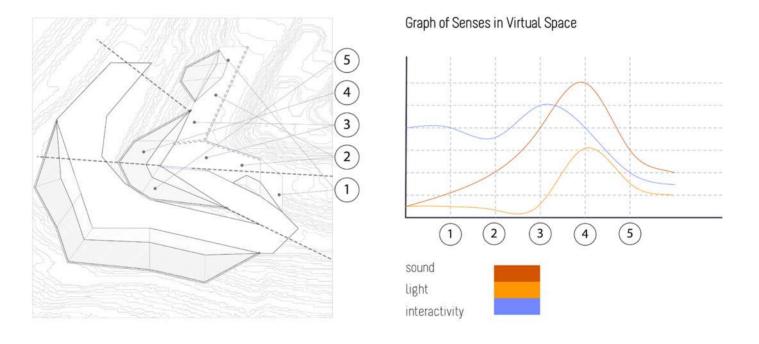


Description of Drawing Form Generation

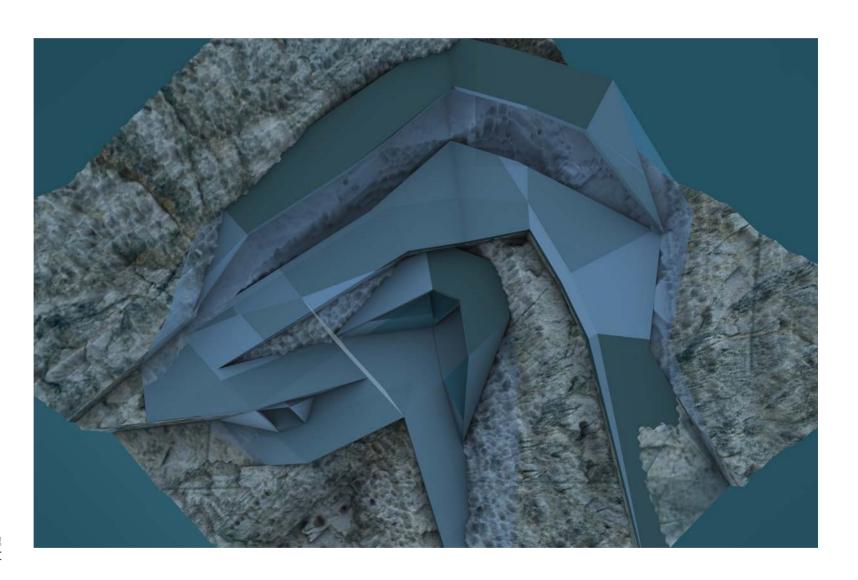


Description of Drawing Overall Circulation Diagram

Circulation Diagram - Effects Description

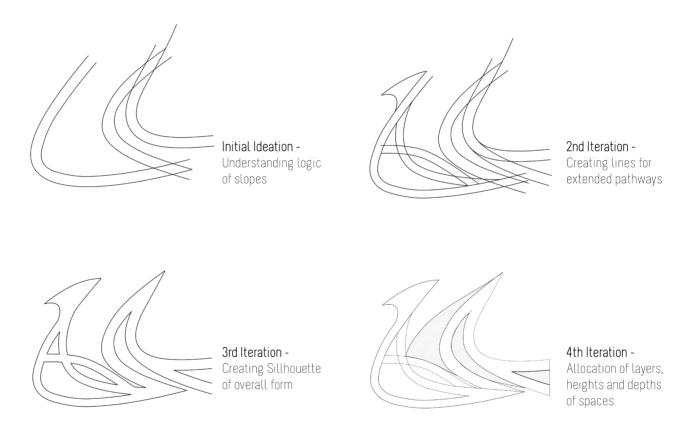


Description of Drawing Senses Diagram



Description of Drawing Form Screenshot

Design Iteration - Approach 2 (Curves)



Description of Drawing Form Generation

Design Iterations



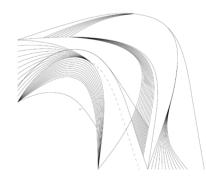
Initial Ideation -Conforming to main contour of slopes



2nd Iteration -Connecting contours and drawng secondary lines

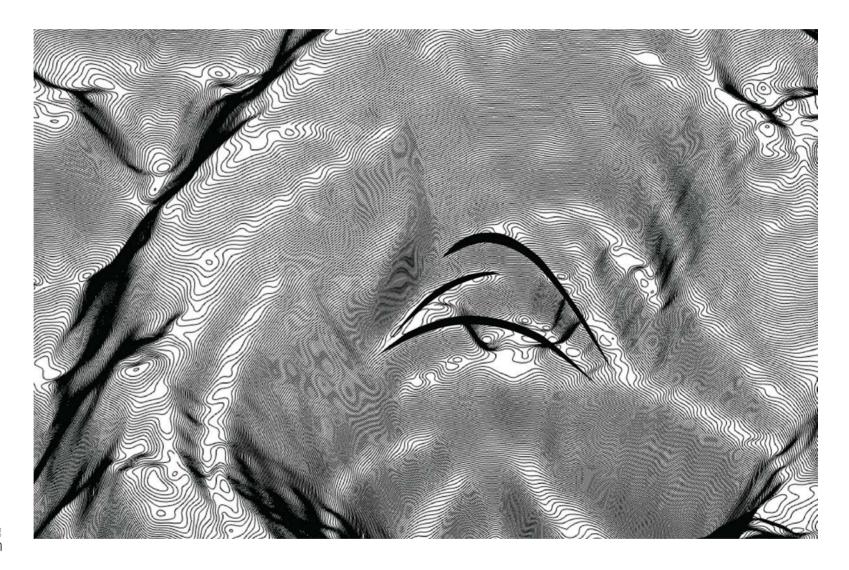


3rd Iteration -Further connection of contours by creating transitional steps



4th Iteration -Further articulation of the contours

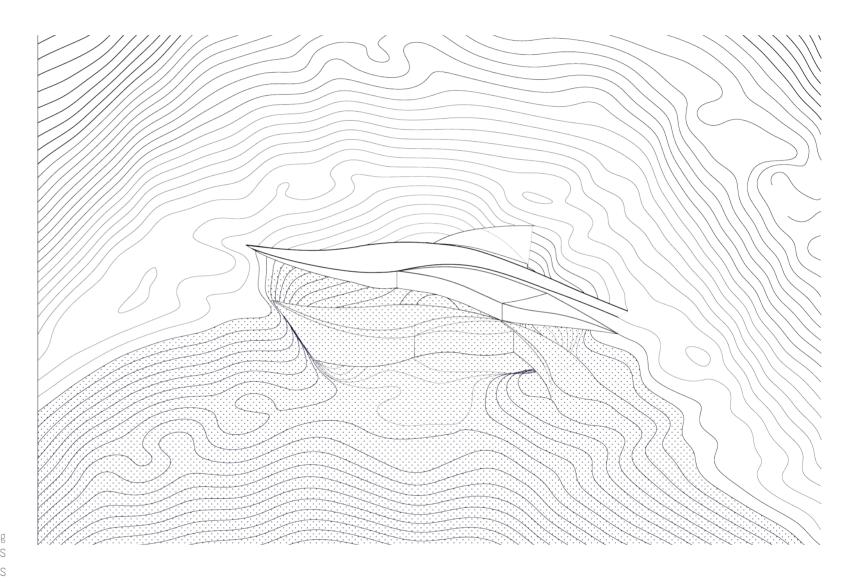
Description of Drawing Form Generation



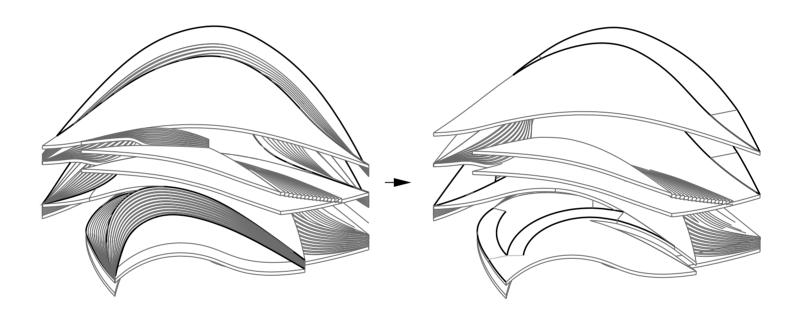
A different approach to form generation

Analysing contours while considering the elevations of the ramps.

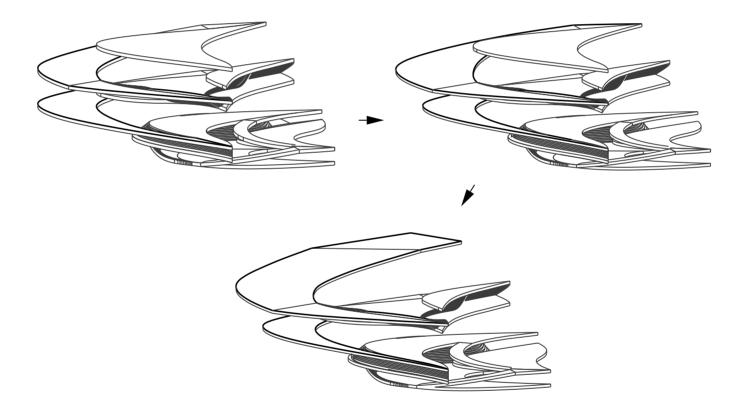
Analysing the volumes created by the ramps



Description of Drawing Carving out volume of the ramps and replacing it with spaces dedicated for the museum

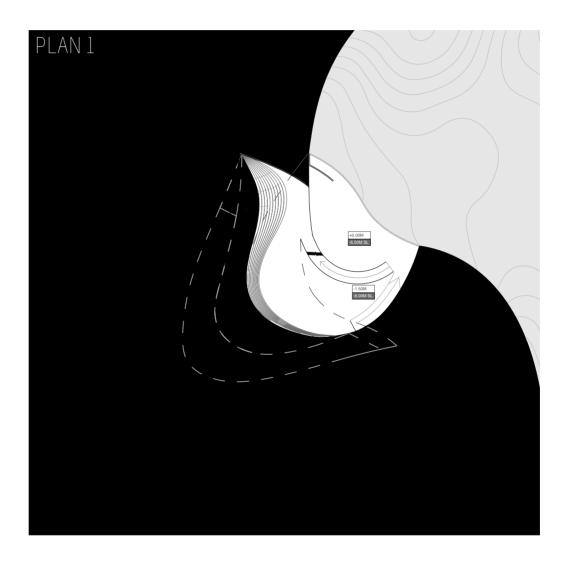


Description of Drawing Moderation of circulation language between floor plates



Description of Drawing Fitting floor plates to match existing contours

Anthropocene Museum of Humanity's Memory Finalised Design



Description of Drawing Basement Floor Plan



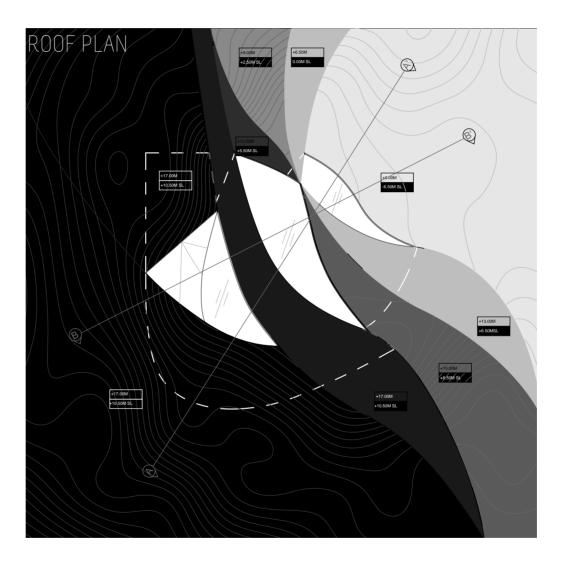
Description of Drawing Level 1 Floor Plan



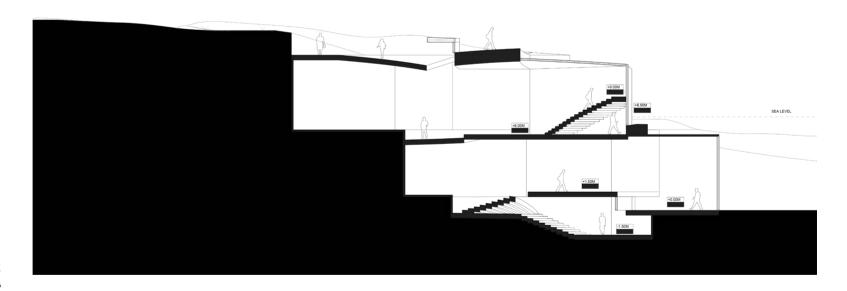
Description of Drawing Level 2 Floor Plan



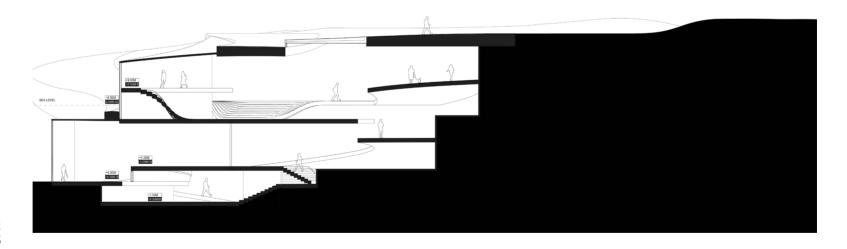
Description of Drawing Roof Plan



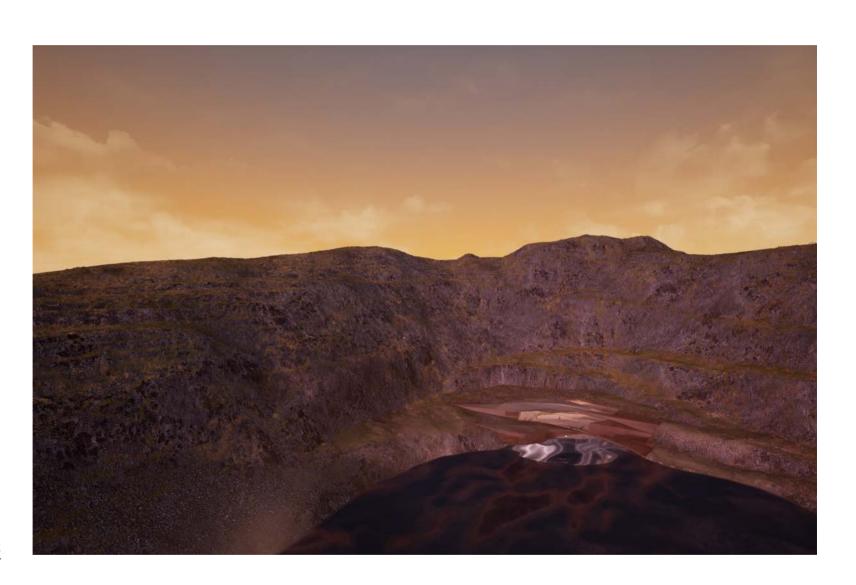
Description of Drawing Roof Plan - Labelled



Description of Drawing Section A-A



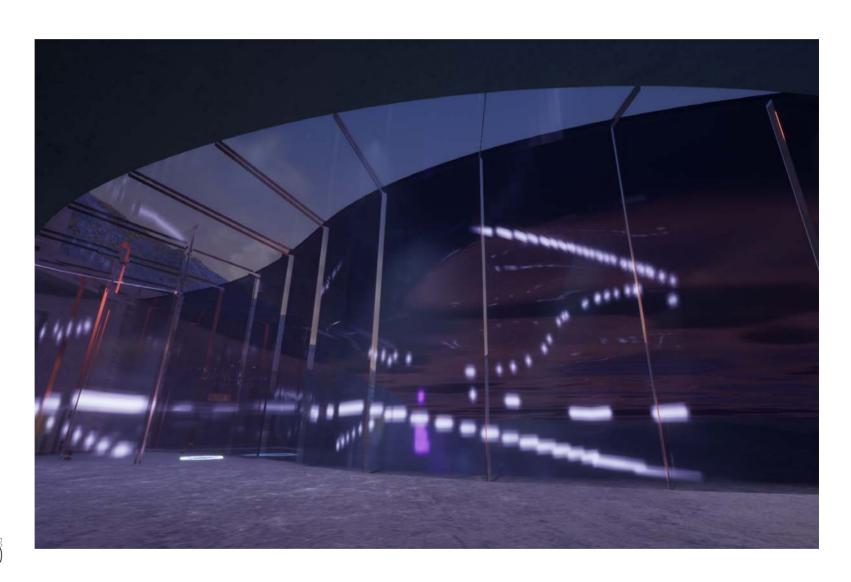
Description of Drawing Section B-B



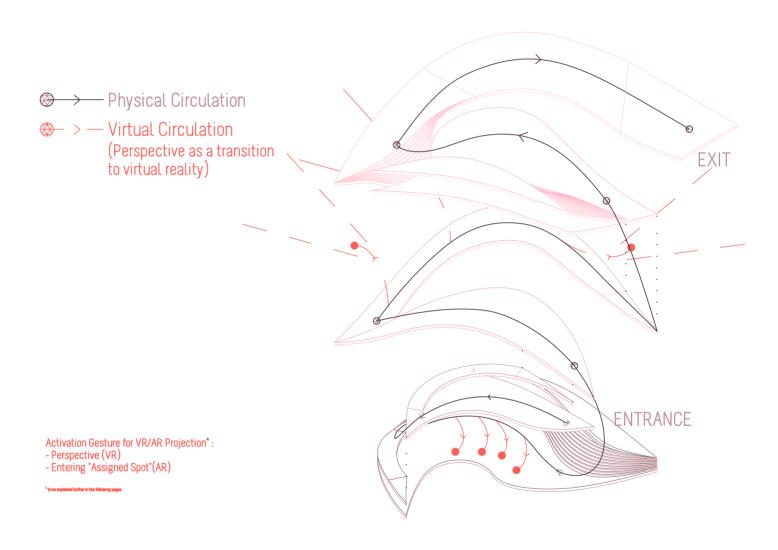
Description of Drawing Museum Exterior



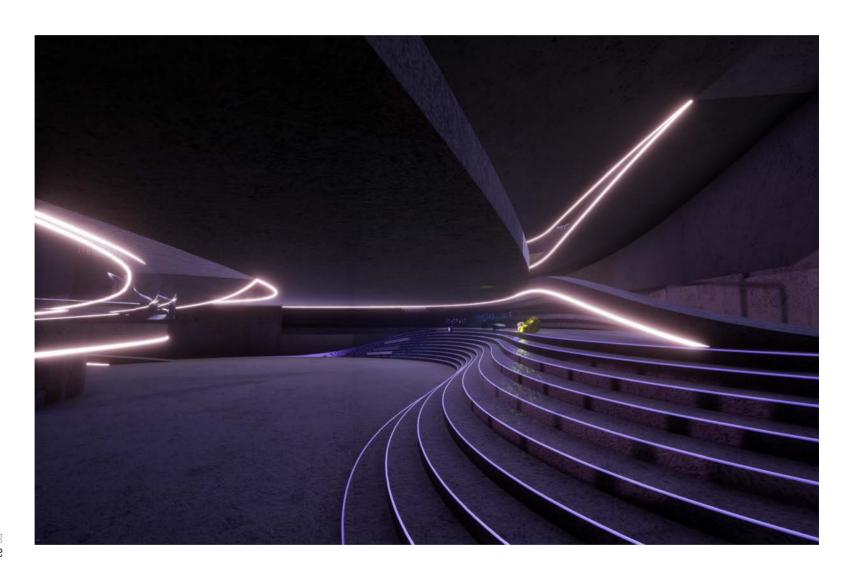
Description of Drawing Museum Exterior



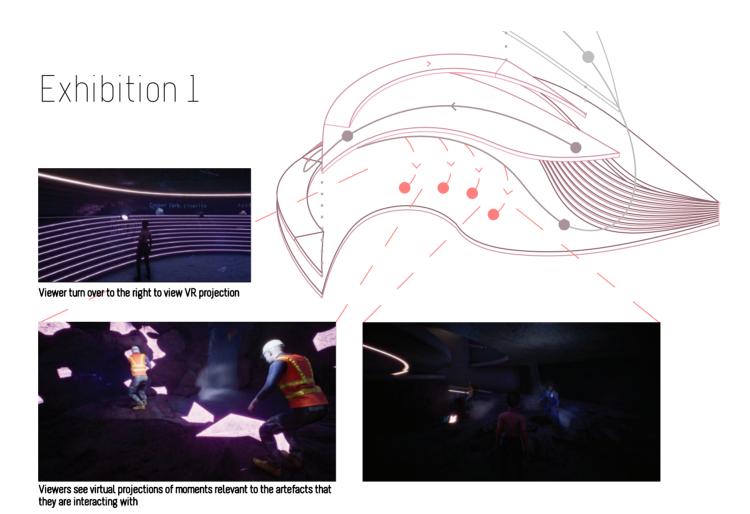
Description of Drawing Museum Interior (Entrance)



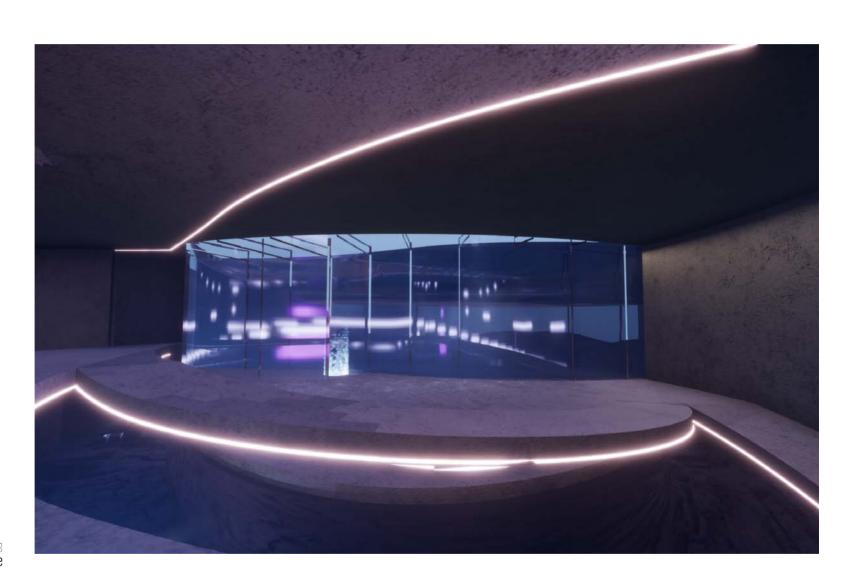
Description of Drawing Overall Circulation Diagram



Description of Drawing Exhibition 1 Space



Description of Drawing Exhibition 1 Matrix



Description of Drawing Exhibition 2 Space



Viewers see augmented reverse time-lapse of the evolution of the landscape

Description of Drawing Exhibition 2 Matrix



Description of Drawing Exhibition 3 Space

Exhibition 3



Viewers' perspective will determine he VR world that they are brought into



VR world 1: Pristine Environment in the beginning of the Holocene

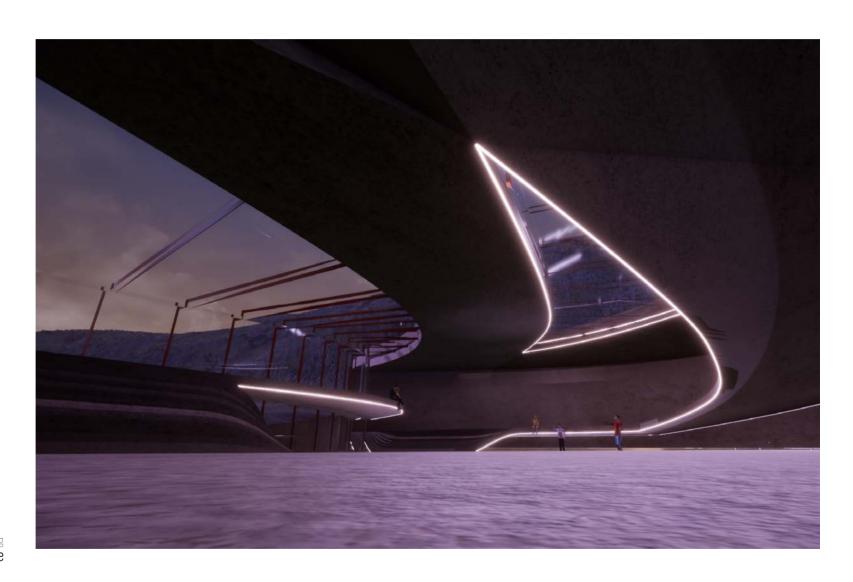


VR world 2: Extrapolation of current trend; totally damaged world



VR world 3: Rehabilitated current environment

Description of Drawing Exhibition 3 Matrix



Description of Drawing Exhibition 4 Space

Exhibition 4



Viewers stand on assigned spot to view AR projection



Viewers participate in world building based on the environmental features they witness from the previous exhibition



The built world is stored as a small scale hologram monument for visitors to keep

Description of Drawing Exhibition 4 Matrix

Anthropocene
Museum of Humanity's Memory
Museum Conclusion

To understand the inherent value of the landscape, as more than a platform that we step on, which resources we can extract.

To remind visitors of the consequences of their decisions

To ponder if Architecture could be more than just a reaction to our changes. Could it be part of the dialogue between human and nature as we progress towards the many to epochs to come.

Reading: "Destroyed Sites: Places and Things Inside Out" Hornstein, S. (2011). Losing Site. London: Routledge (D)

"The idea that a solid form cannot be shaken was the goal for architectural form"

Like our lives, the process of ending begins as soon as it was born, and the idea of permanence is not really the reality. It is only an ideal state of that architectural form. In my project's case, the ideal state of that landscape.

"All too often architecture seems simply to exist. Unless it is aesthetically moving and noteworthy" we don't chart the life of a building or a space and take notice of its shape. Instead, its role as a container of our present and past is more of a priority. We take the rest for granted

Ultimately, there is a need to encourage a reflexivity so that there can be a meaningful appreciation and interaction with a place we shall be more aware of those taken-for-granted ideas and analyse further towards a more reasonable and and mutually respectful dialogue between the spaces, those who live in them, as well as those who are intending to plan for the spaces.

This idea about how we perceive buildings is challenged in a very interesting manner by Rachel Whitebread, in her artwork "House" She used the reverse casting technique to make a concrete cast of the interior of an entire 3-storey house in London's East End with the intention of challenging what we think we know about how we use the space of our homes.