MATIJA POGORILIC

Advanced Architectural Design Portfolio

GSAPP

2025

CLOUD

### **CLIMATIC RECOMPOSITION OF A BUILDING IN PARIS**

### **STEAMVIEW PARK**

**THE INTERSTICE** 

#### THERMAL MEMORY REVEAL

### WHAT IS THE COST OF INFORMATION

**ALPINE ASSEMBLY** 

+ written work

# **STEAMVIEW PARK**

**EXTRACTING FROM CONED TO DEMOCRATIZE ENERGY DISTRIBUTION** 



### mentored by Nerea Calvillo (TA Aishwarya Garg)

collaboration with Martina Holmann

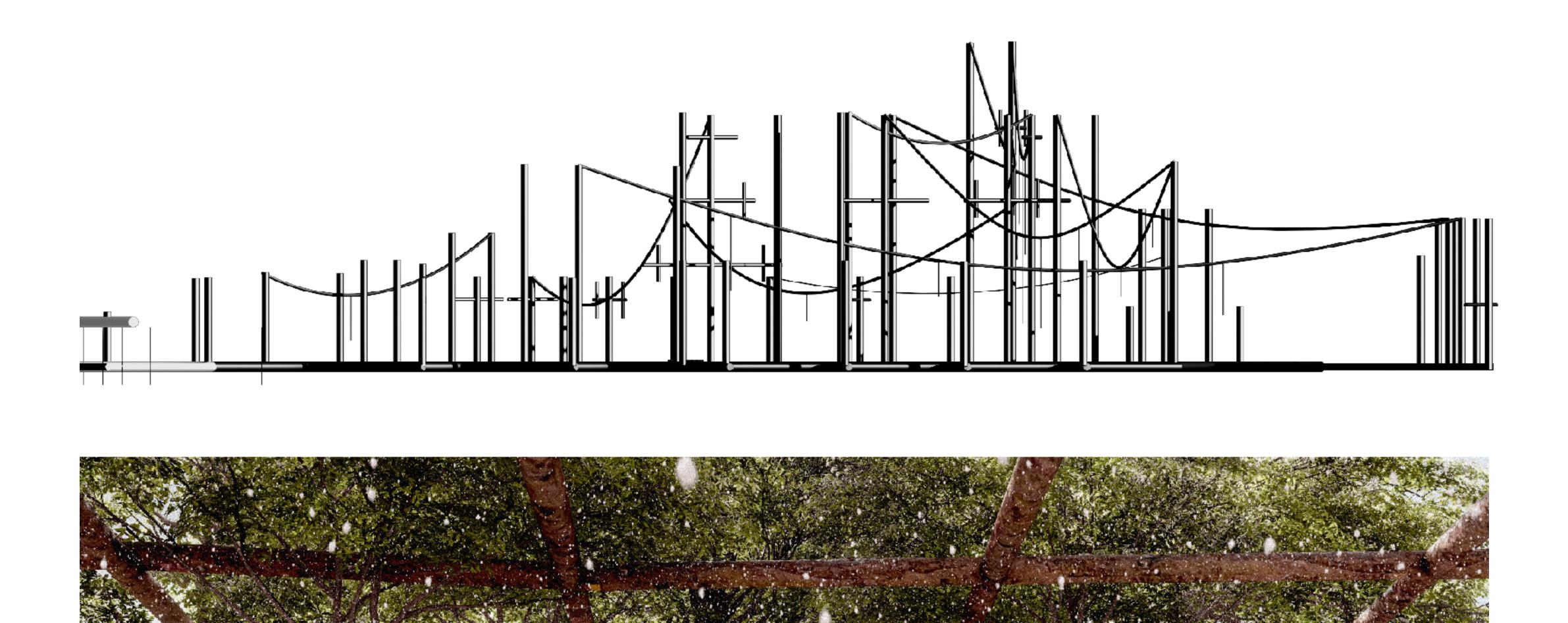


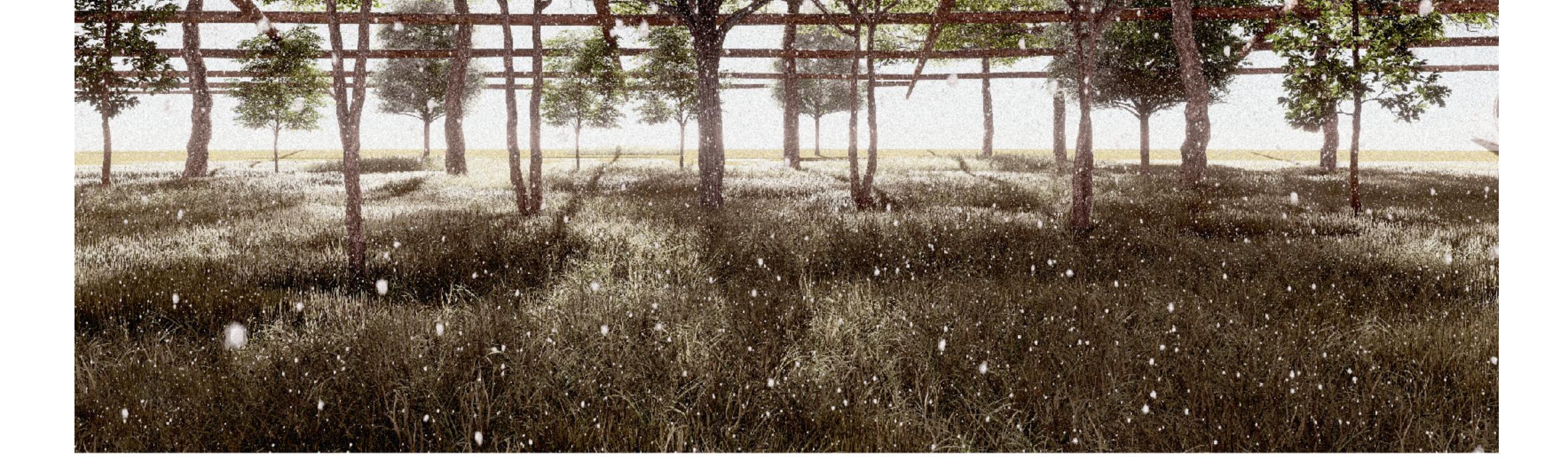
Through history, Soundview Park has been the place of dispute between Con Edison and the communities considering displacement, environmental violence, health issues, and ecosystem degradation. These disputes continue today, Manhattan has an abundant supply of steam, while in the Bronx, it is being replaced with fracked gas. How can the histories of environmental injustice be reversed?

We will challenge the rhetorics of decarbonization by reversing the tendency to fracking, requiring Con-Ed to continue using steam and bring it free to the neighborhood as an environmental reparation to prevent energy injustice. Additionally, we will anticipate climate change by creating new ecologies with steam.

The pipelines are always underground and unseen, we will bring them overground. The park will be transformed into Steamview Park, a steam-breathing machine. Communities and environmental advocacy groups, who have always collaborated to revitalize the park, will help us make the pipes by hand.

Fifty years from now, the steam habitat will destroy its own infrastructure. As climate change eventually catches up, the pipes will no longer be needed. The system will remain as a legacy of a materiality that is dying, and it will serve as a memory of the histories of environmental injustice at Soundview Park.

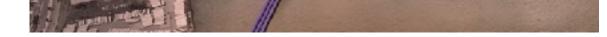














# **CLIMATIC RECOMPOSITION OF A BUILDING IN PARIS**



### mentored by Philippe Rahm (co-teacher Mariami Maghlakelidze, TA Pallavi Jain)



In near future, new techniques of heat protection, dispersal and cooling will have to be implemented into the built environment in order to aleviate it from the raising average global temperatures.

The building at the southern corner of an 8th arrondissement block in Paris metamorphoses through interventions recomposing what already exists on-site. The design becomes a proces of substraction as an additive method.

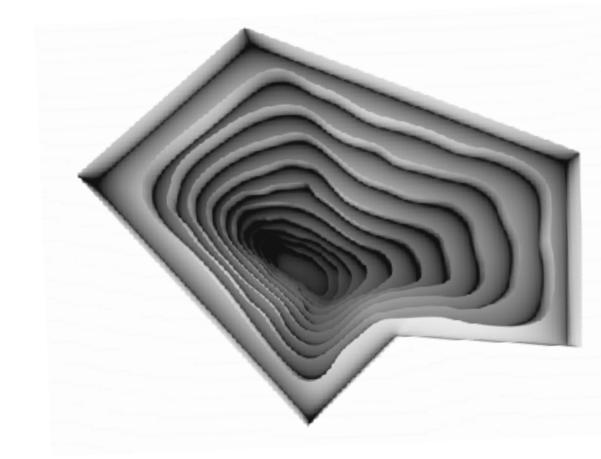
This is achieved through a system of six "actors" working in tandem :

#### Air well

Excavated in the backyard of the building, the air well opens the ground to initiate a geothermal exchange between the building and the Earth. As the pit progresses deeper, the constructed and orderly characteristics of it fade, leading to a primordial materiality of a cave

#### The tunnel

Connecting the pit and the cave, the tunnel channels the collected water and cooled air to further cool down the air through evaporative



cooling.

#### The cave

A cold reservoir, one that collects cold water and cold air. Accessible from the apartments, it allows the residents to experience the thermal phenomena first hand in a cold water pool and the surrounding cave.

### Air shafts

Bored from the ground and up to the building, the internal structures of the shafts are built using rammed earth bricks extracted when digging the well and the cave. The cold air circulates through shafts from the cave to bedrooms and apartments.

### The sleeping rooms

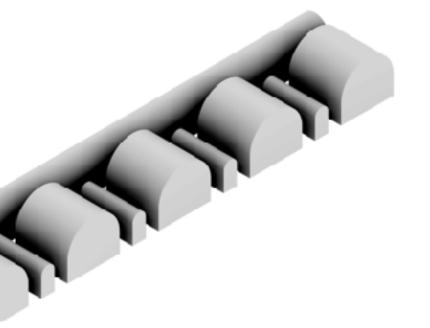
Offering the relief from the high heat, every apartment in the building has an access to an underground sleeping room through the staircase in the air shaft.

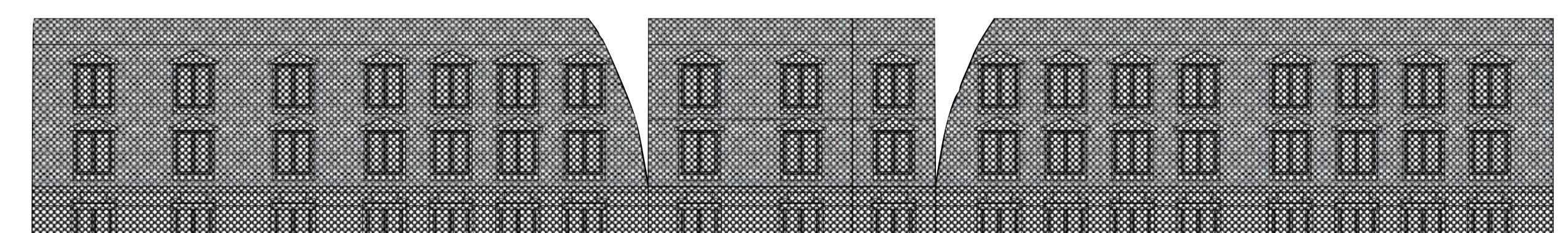
### The jacket

An on-site excavated earth jacket protects the building from light radiation, reflects it and raises the thermal inertia as well as capacity of the facade system.

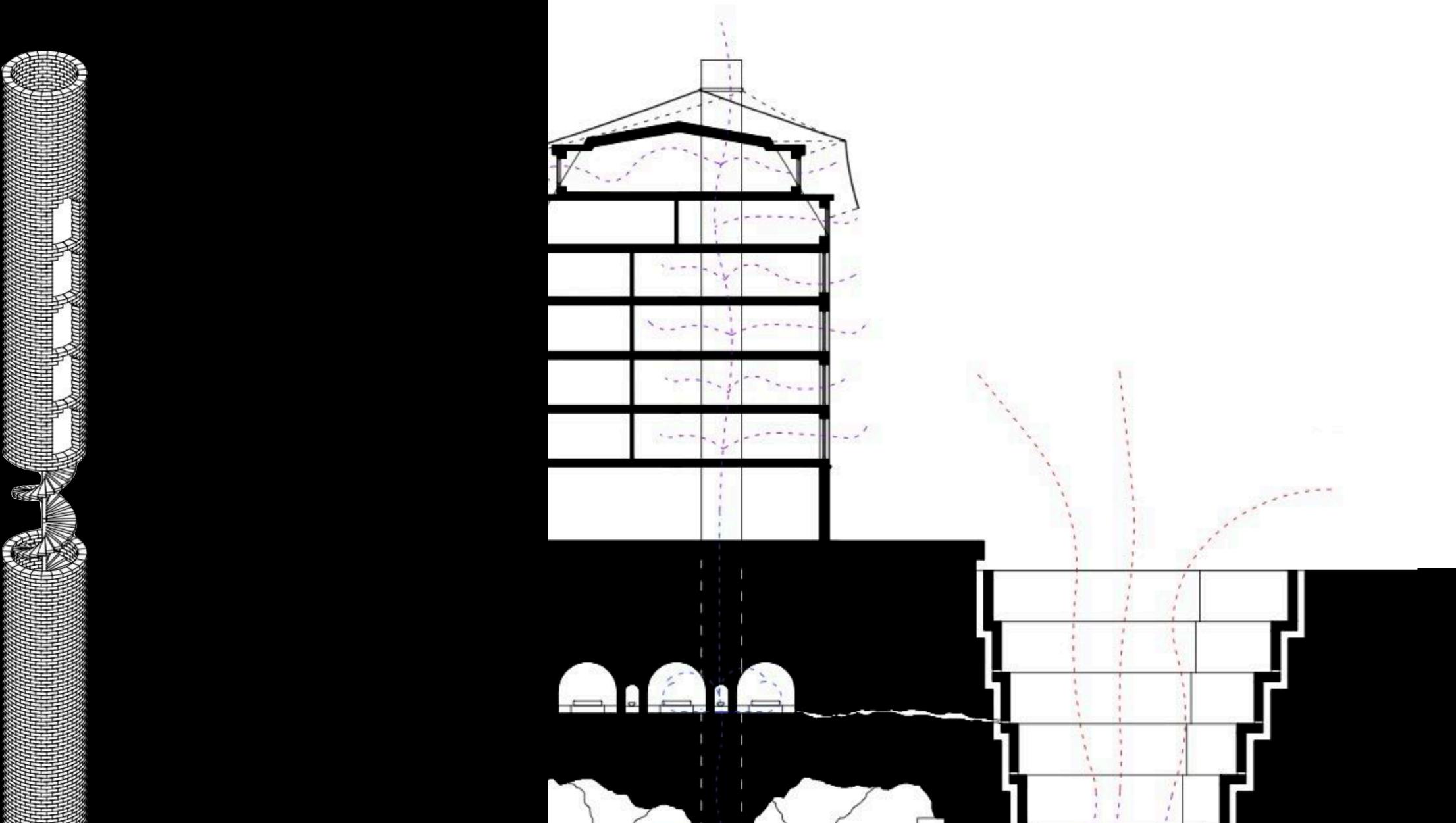
The density of the earth tiles correlates to the local exposure to the sunlight.

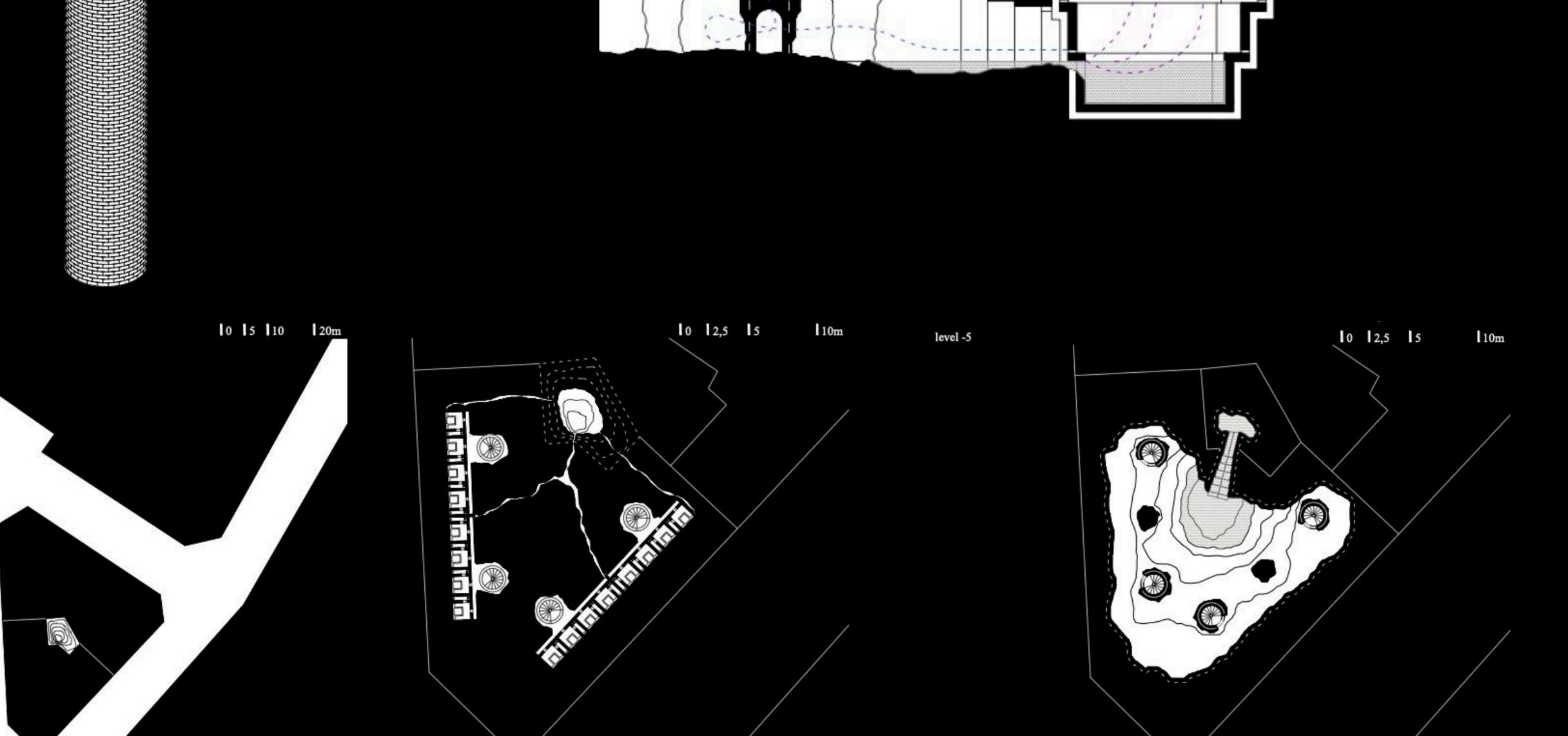
Different densities can be utilized at different times of the year.





			1982 AK BERAKEBER AK BE		808060606







# gsapp CLOUD



## large student group design-build project mentored by Laurie Hawkinson and Galia Solomonoff (TA Tristan Schendel and Syed





The Avery plaza, flanked by the Avery, Schermerhorn and Fayeweather buildings as well as St. Paul's chapel holds an immense amount of knowledge at the intersection of individual realities on top of one of the largest architectural archives in the world.

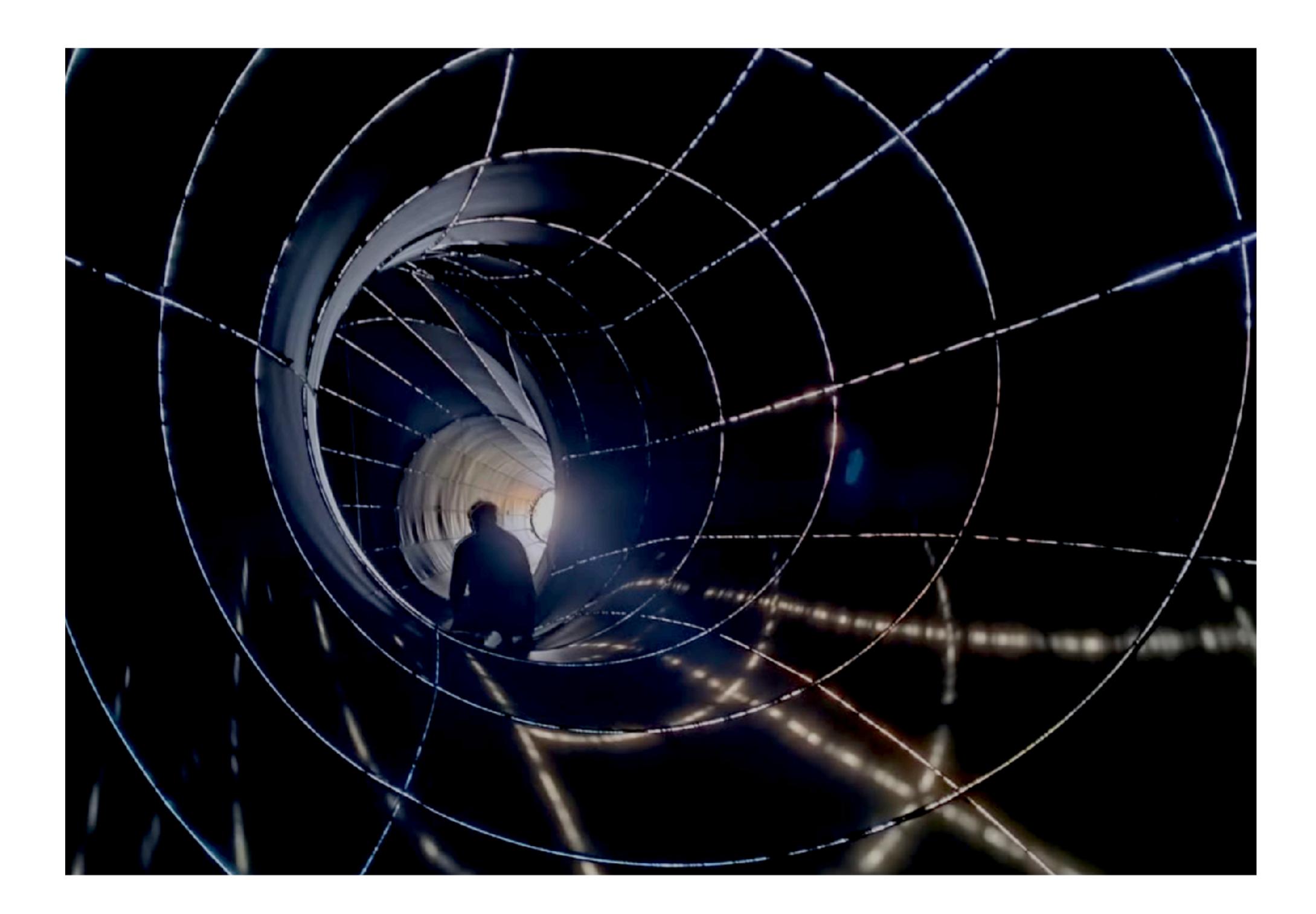
The inflated body feels as if it bursts out of the Avery Hall, which can't keep all the powerful ideas inside of it. The floating halo protruding from the fourth floor of Avery grows above the open space, breathes, shields, redirects and refracts light, creating a memory in the minds of people that experience it; a memory that exceeds the life span of the installation by a lot. It creates and localizes a space of special value.

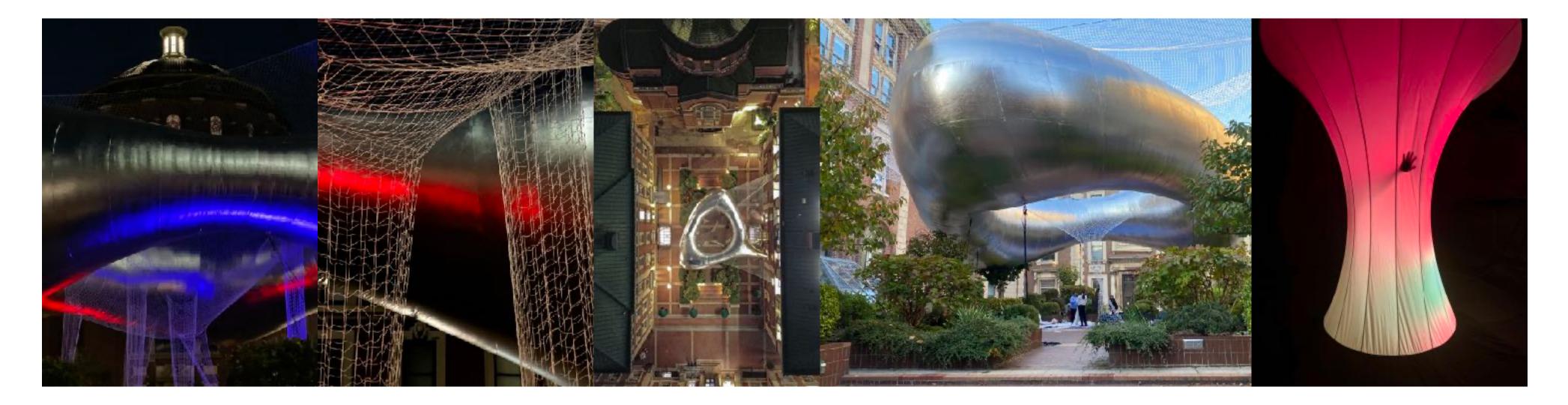
Entering a familiarly alien object merges the feeling of outsideness and insideness, making one wonder when is this border actually crossed. Outside becomes in as much as inside becomes out, balancing between anthropomorphic and zoomorphic shapes created in a material that is expressively inorganic. The intrinsically sewn lines further demonstrate the very fact that this *thing* is very much made by common materials and a structural logic that is readable and reinterpret-able.

The net hanging over the inflatable is connecting and manifesting the forces felt as the invisible glue joining but also separating these differing but joined disciplines. This embodiment of a network in space is soft, adaptable and interactive to the users and visitors alike.

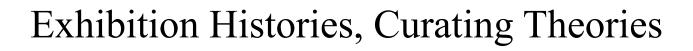
The completed installation creates an endemic climate, one that is combining physical and social aspects of Avery plaza and giving a certain form and a body to the intersected realities happening on and around it, ones that interconnect and create offspring ideas. It is enhancing and making tactile the very essence of what an area with this immense amount of *knowledge* around it can produce - the Campus.

Translation of the collective student design aspirations to an idea, from an idea to a sketch, from a sketch to a plan and finally to a constructed object has created a platform. The platform that boasts an pedagogical force, teaching the process of design-build, management, coordination and communication. From the very initiation of the project throughout the whole process, redirection, risk control and intuition has been integral to decision making needed to see this artifact come to life.





# INTERSTICE





Nowness is characterised by an endless, vividly free flow of information; an apsolute reign of know-how. our understanding of the world we inhabit has inherently changed. our reality is defined by influences converging around technology, environment and geopolitics.

It positions us at the intersection of various naratives on uncertainity that make our view towards the future foggy?

The Post Contemporaneity evokes the ideas of futurism but renders them in a non-technocratic vision, as it leads to the ideas of neoneolithic architecture, future-primitivism, more-than-human symbioticism, non-human intelligence.

We inhabit a completely manufactured, thoroughly designed surrounding.

The proposal examinines the shifting boundary between the natural and the synthetic, between lived reality and speculative future. It brings together works that reflect a world increasingly shaped by data, code, and emergent systems—where certainty dissolves and perception is recalibrated.

Rather than presenting a singular theme, the exhibition assembles propositions. Each work functions as a site of inquiry into how technology, environment, and the body intersect and mutate. These are not representations, but systems—constructed, felt, and inhabited.

This is an exhibition about what we become when the human is no longer a stable referent. When identity is distributed across networks, when climate becomes interface, when art and architecture responds not to forms but to feedback. In this speculative ecology, nature is a simulation, history is a hallucination, and the contemporary has already passed.

### What remains is this: a spatial essay on our unformed futures.

Ali Cherri - How I Am Monument (2025)

Sandra Mujinga - Reworlding Remains (2021), Sandra Mujinga - Sentinels of

Change (2021)

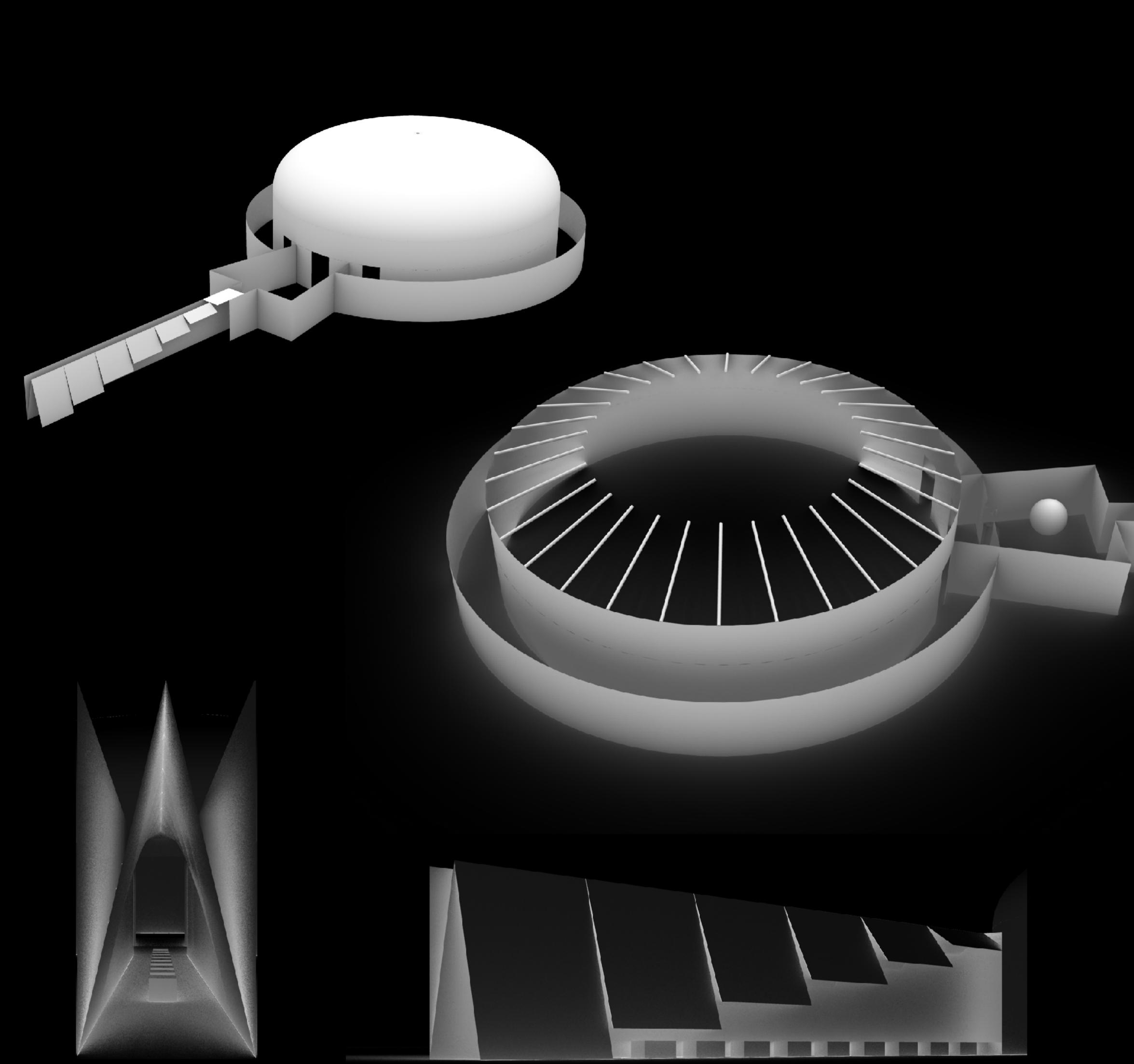
Olaffur Eliasson - Open (2024)

Pierre Huyghe - Camata, 2024

Pierre Huyghe - Mind's Eye (Annlee), 2024

plastiglomerate samles

#### Anthropocene work group - sediment samples from the Crawford Lake site



# THERMAL REVEAL







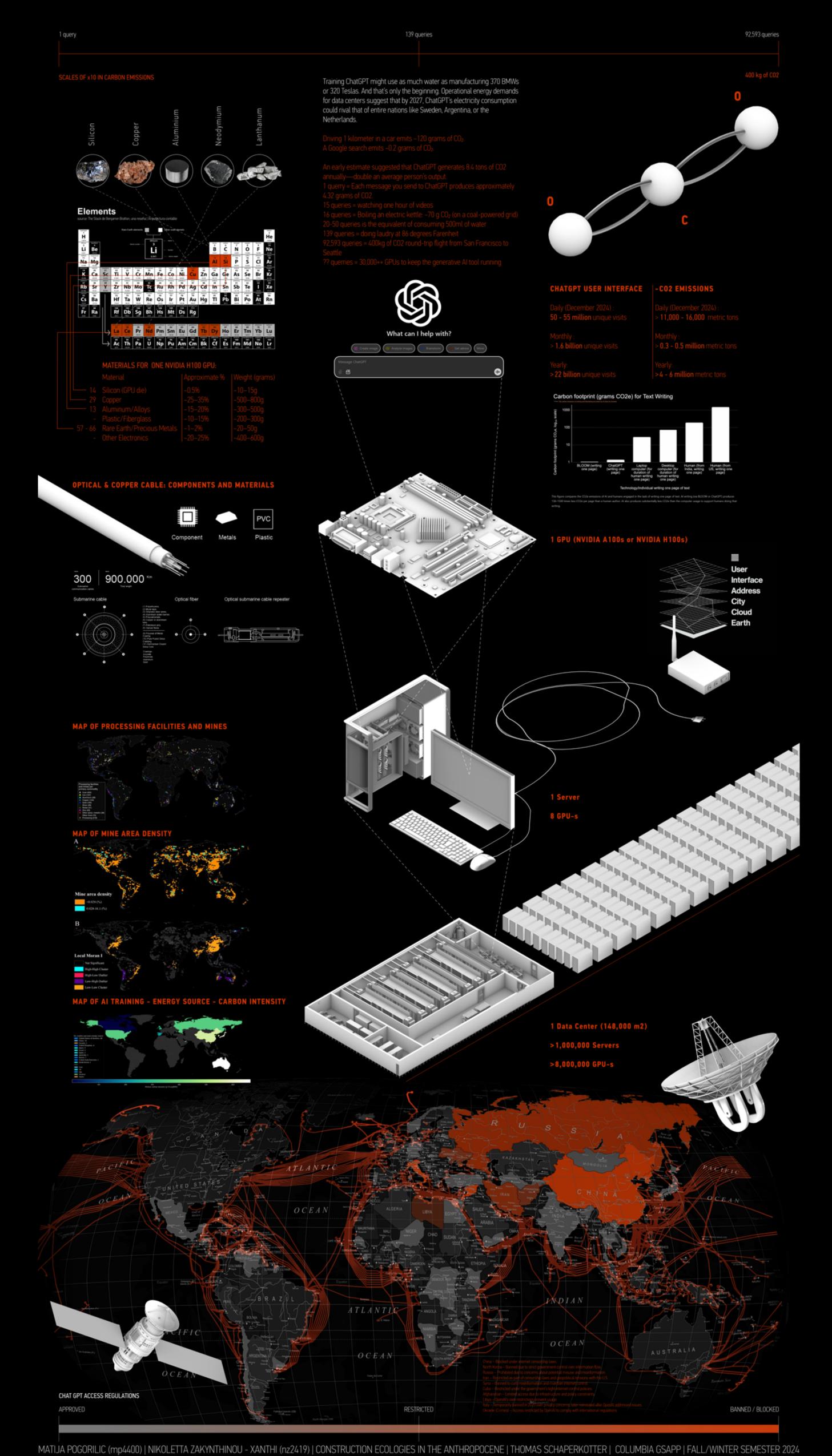
# WHAT IS THE COST OF INFORMATION







# $\begin{array}{c|c} C & A & R & B & O & N \\ \hline \textbf{THIS TITLE WAS PRODUCED BY CHATGPT AND EMITTED 4.32 GRAMS OF CO_2 IN THE ATMOSPHERE} \end{array}$

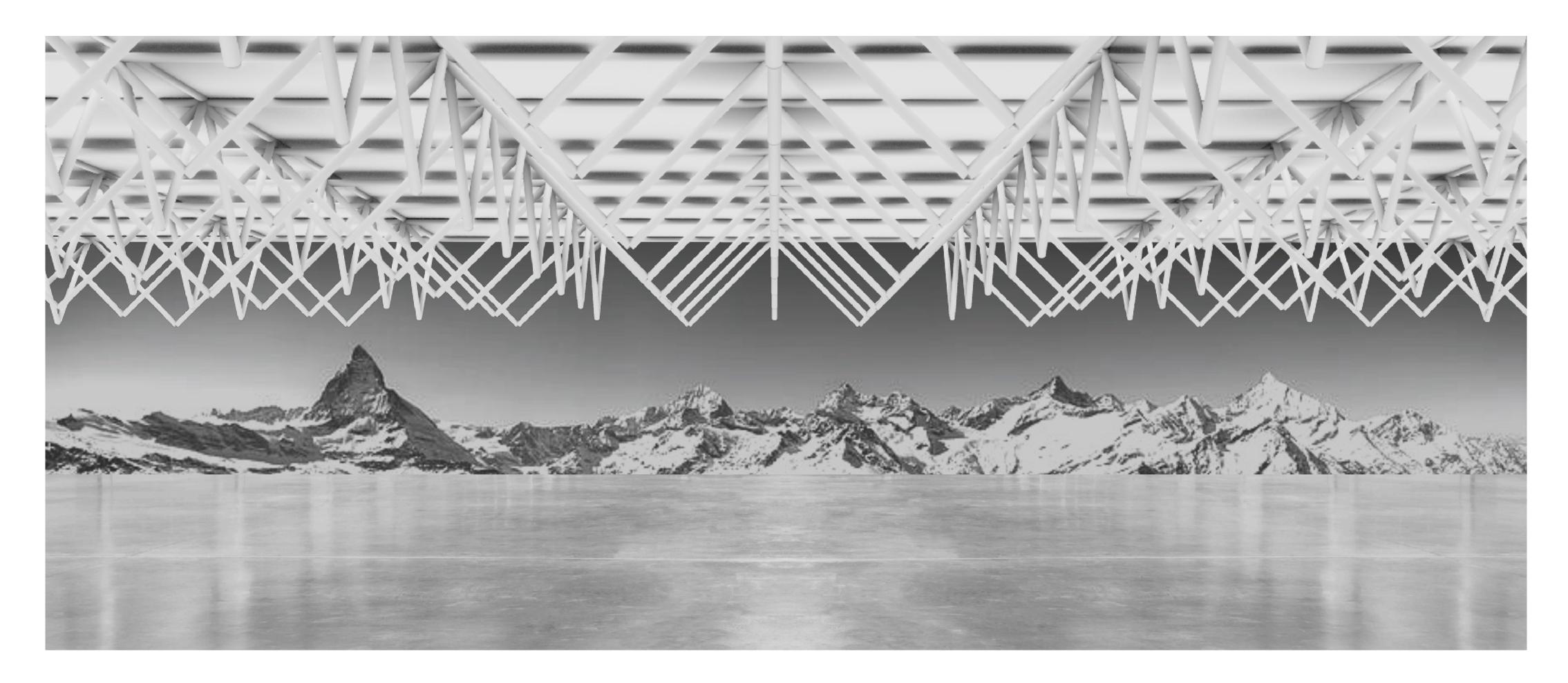


# **ALPINE ASSEMBLY**

Hotspots 2025

mentored by Mark Wasiuta (TA Ammar H Rassai)





The Matterhorn / Cervino - the iconic, immutable, and cinematic —is a crucible of "the alpine": a landscape at once natural and hyperreal, both geological and ideological.

This peak, endlessly and perpetually reproduced, becomes a stage where fantasies of purity, power, and spectacle are projected. Its slopes carry the sediment of ideology—where Ruskin's sublime, Mussolini's nationalist elevation, and Disney's commodified wonder converge.

This project interrogates and recomposes the choreography of alpine experience, how the mountain is not merely seen but sensed, performed, and controlled. Vision is guided. Movement is framed. The body becomes an instrument tuned to the spectacle.

The visitor enters. A step-by-step, point-of-view journey unfolds, comic book-like—each panel revealing structure, detail, and illusion. The building and mountain collapse into one choreographed fiction.

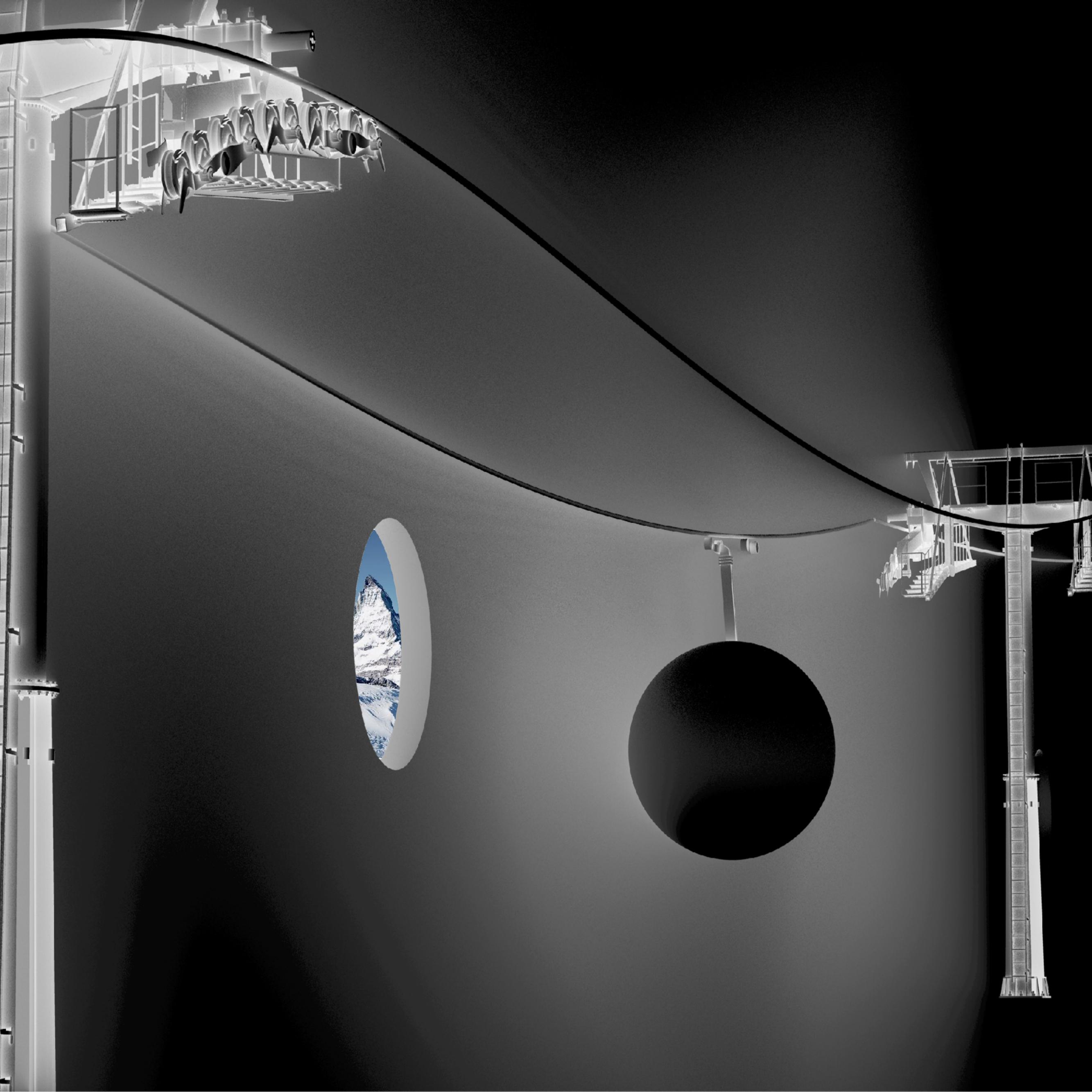
The Matterhorn was never just a mountain. It is a monument of control, a vertical ideology, an assembly of illusion.

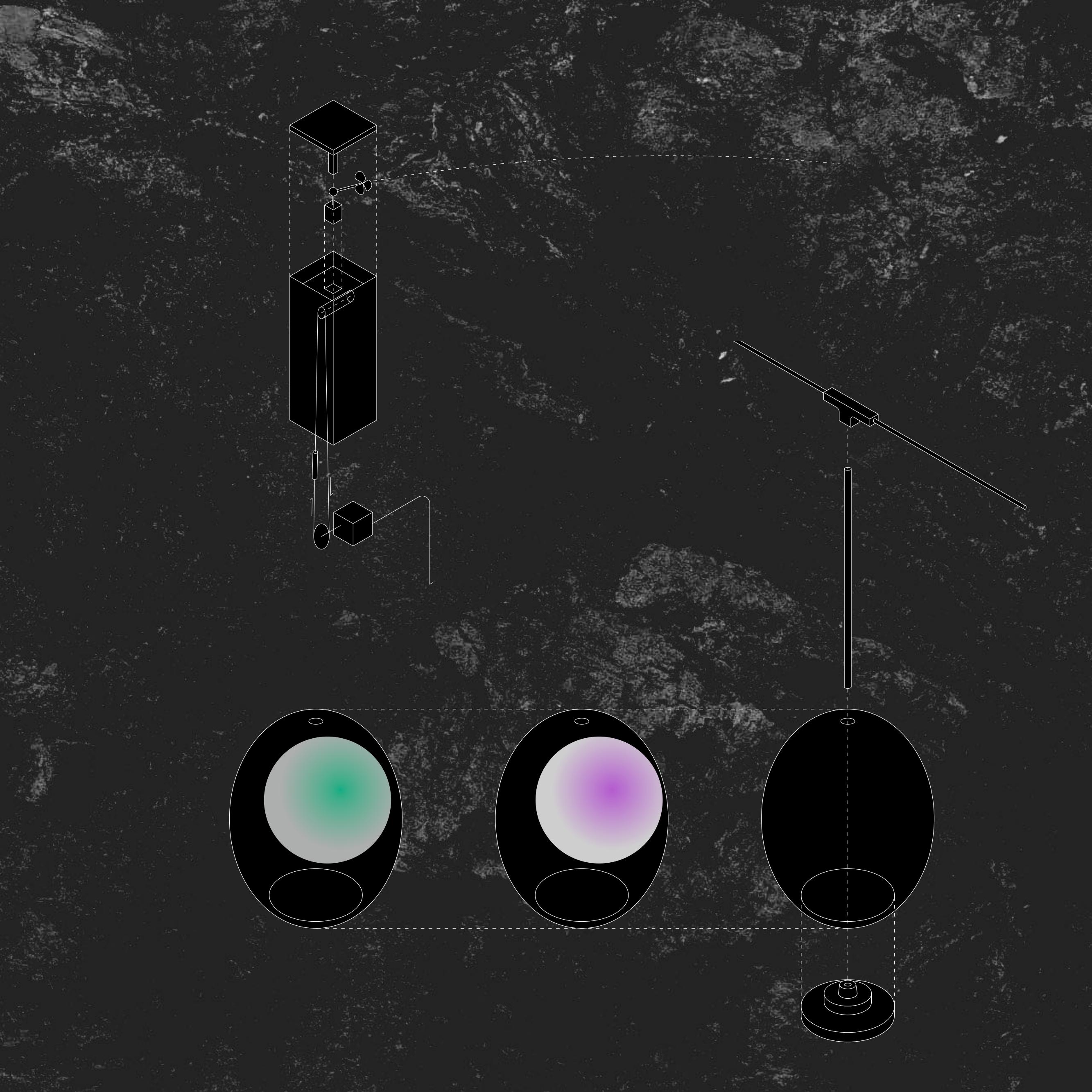
The Indoor ski hill, "the wall" grows from the 1930s Breuil base station, building upon the inherited infrastructure, making it become a built-in *spolium*. A choreographed experience of a mountain connects the top (Plan Maison) to the bottom station with a series of cable-tents attached to the chairlift carrier pillars.

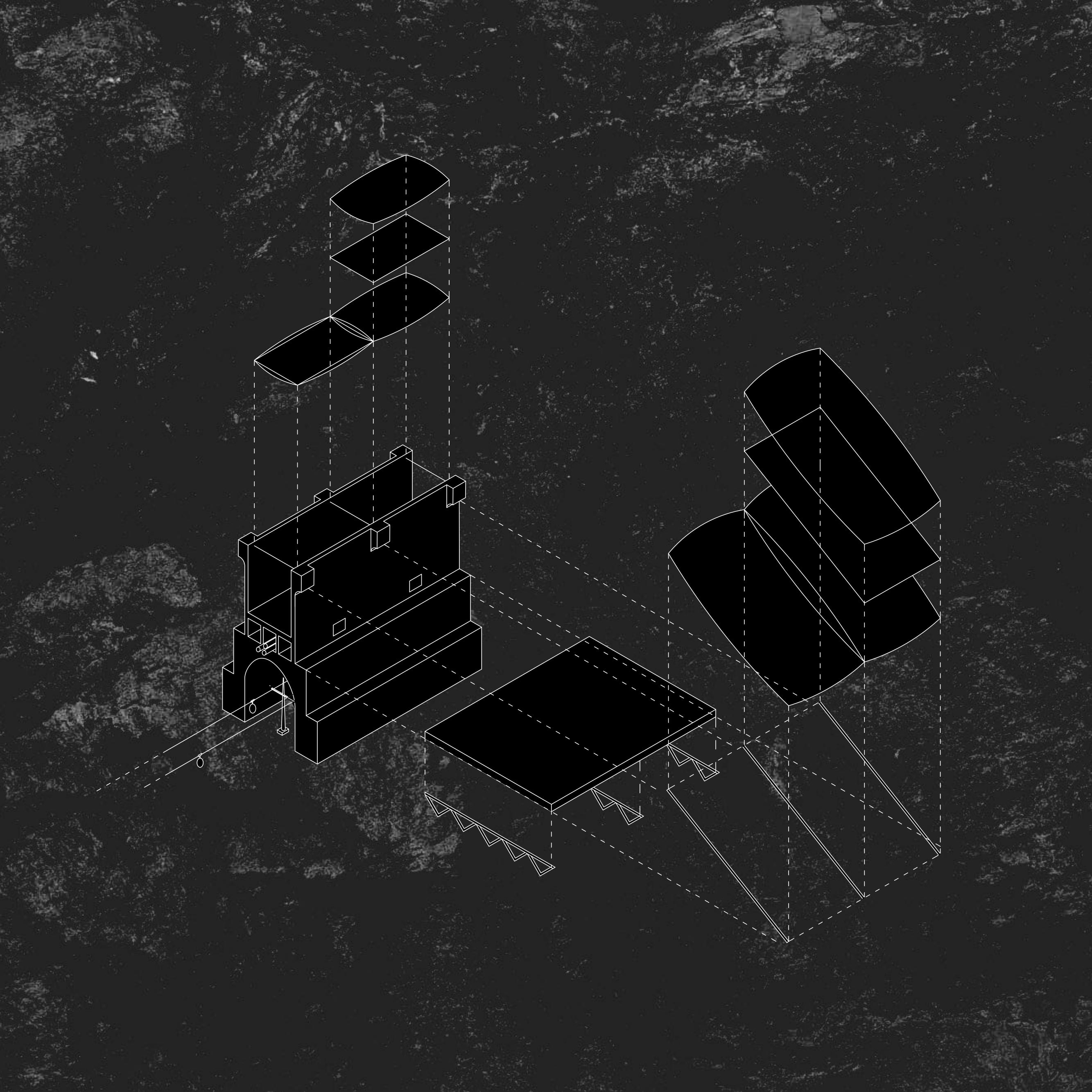
Potential kinetic energy reservers (avalanches) are managed as the energy is recovered through weight based passive battery systems connected to pulley cannons monitoring the avalanches from the watchtowers.

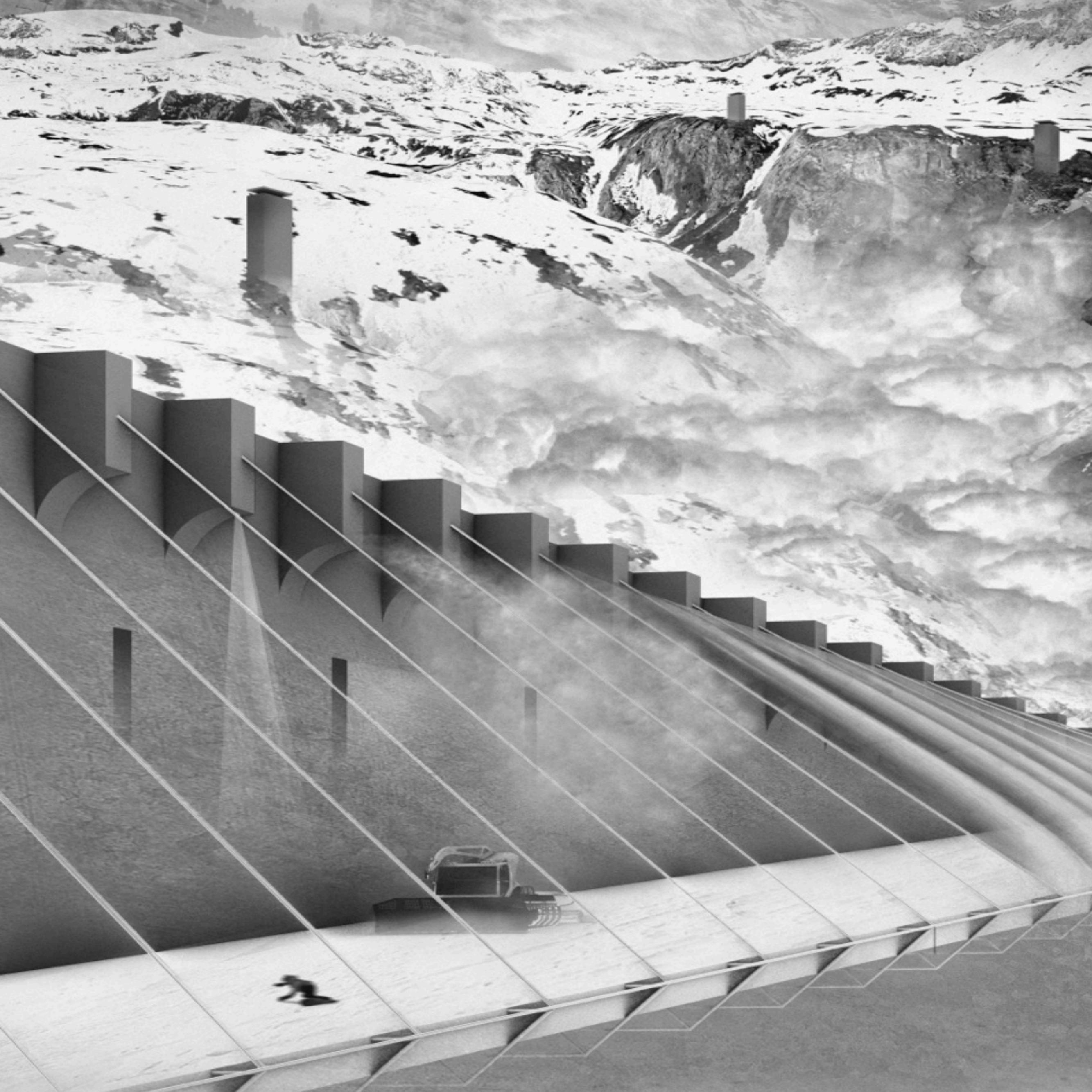
Cable cars are *re-lensed*, offering a new way of seeing and understanding the mountain and its snow coverage (or the lack thereof).

Descent through one of the conditioned slopes cantilevered from the base wall transports the visitor to an artificially natural, idealized landscape while being reminded of the artifice of the idea of a mountain as one rushes through camera - obscura visions of the peak. Interior slope materializes both the physical and the visual phenomena of *the alpine*.









## + writing

**On Autonomy** : a response to Non-Refferential Architecture (History of Architecture Theory - Mark Wigley)

<u>link</u>

For and Against : a compilation of assignment texts written for a class by Bernard Tschumi

