Practicina

Abdullah Maddan

Columbia GSAPP 2024

ainty

& Becoming

Antifragile

Antifragility is a concept developed by Nassim Nicholas Taleb in his book "Antifragile.
Things That Gain from Disorder." It describes systems, entitles, or structures that benefit and grow stronger from volatility, stressors, shocks, randomness, and disorder. Unlike fragile things that break under stress and robust things that resist it, antifragile things actually improve and thrive when exposed to such conditions.

Fragile

Robust
Resilient

Handle
with care

Needs
Stability
Theory
Academia
Rationalism

Le Corbusier

Antifragility
Antifragility
Antifragility
Please
mishand
Antistry
Skepticise
Caudi

The increasing complexity of our reality is elevating levels of uncertainty, volatility, and randomness within systems. Although modernity aims for a more efficient, optimized, and stable future, its endeavors inadvertently undermine the system, heightening susceptibility to unpredictable catastrophic events, aka black swans.

Black swans are events that are highly improbable, have a significant impact, and are often unexpected or unforeseen. These events are characterized by their extreme rarity, unpredictability, and profound consequences. They challenge conventional wisdom and defy regular expectations, catching people off guard due to their unprecedented nature. Examples of black swan events include financial crashes, natural disasters, technological breakthroughs, and geopolitical upheavals.

MITIFRAGILE

Nassim Taleb

THE LINDY EFFECT Aging in reverse

The Lindy Effect is a concept suggesting that the longer something has been around, the longer it is likely to continue to be around in the future. This principle applies to various cultural artifacts, technologies, ideas, and even organisms. Essentially, the longer a book has been in print, the longer it's expected to remain in print, or the longer a technology has been in use, the longer it's expected to remain relevant.

Tradition: Window to the future

Excerpt from History of Architectural Theory Mark Wigley, Fall 2023

Fathy builds further on the intrusion of modernity and points out to the collapse of "cultural frontiers". Those frontiers produced distinct local shapes and details in architecture for centuries, carved by people's inspirations from their environments, their customs, and local materials. The collapse also produced cultural confusion, where one cannot tell the difference between a Persian arch from a Syrian one, a missing signature that usually follows from the curvature of the dome to curvature of the jar. We can determine from Fathy's arguments that he considers an indigenous architectural style an important "expression of the character" that is unique for every community and since every community has its own circumstances and settings then it should produce different expression. Perhaps, he is assuming that any attempts to change or unify the style across many communities is in confrontation with these community's character and expression.

Fathy drives the point of tradition further, by questioning the notion of style and how it is treated as a mere superficial finish that could be applied to a building and could be changed like a man changes his clothes. He emphasizes that "real architecture" cannot exist except in a living tradition, meaning that the tradition of a group of people and their environmental conditions will

shape their architecture over the to become different species. The many years of evolving and trial evolving process of trial and error is and errors. Eventually architectural comparable to the mutations that elements will move towards their emerge in lifeforms and the conperfect location, size, and funcvergence of biological organs to the most efficient shapes and locationality. In Fathy's view, form is the most profound effect on the users, tion that is crucial to their survival however, the beautiful design must and reproduction. serve the everyday needs of the inhabitants, as well as be true to their materials and environment. This assertion from Fathy is perhaps evolutionary in nature, the localism he is advocating for is similar to the phenomenon of speciation we observe in nature when populations split and isolate from each other due to environmental circumstances, and they grow differently

Tradition: Window to the future

Fathy challenges architects over their pursuits of "originality", he asserts that they will not escape using the work of earlier architects and no matter how hard they strain over it they will eventually fall in a tradition or another

Fathy then challenges architects over their pursuits of "originality", he asserts that they will not escape using the work of earlier architects and no matter how hard they strain over it they will eventually fall in a tradition or another, and then the question arises on why disown one's own tradition and create a make-shift synthesis that in many cases may not function properly, only to "gratify the architect's own selfish appetite for fame." While brutal, this observation by Fathy does resemble some truth but it could be a necessity in the creative fields in general that allow for self-expression which eventually manifest in a lot of these different shapes, forms, and patterns we observe in cultures across the world. However, tradition does not necessarily mean stagnation for Fathy. The need for innovation is always present in many of the traditional solutions might not work with the changing environment and customs. A problem or a challenge that might have remained unsolvable with the passing of generations is the perfect place for creative intervention and problem-solv-

the other hand, modernity is not synonym with change, and change is not always for the better. For Fathy, innovation should be in response to specific circumstances and not an end in and of itself. With a defensive tone, the clarifications that Fathy made about the relationship between tradition and innovation are a sign or confirmation that tradition might be and to a certain degree a slower engine for new ideas which might be discouraging for architects and people at large. Fathy continues with his defense and suggests that tradition actually free the artist from the distraction of the non-essential decisions, while tradition provides many answers for the common issues the arises, the artist can focus on the art, and he uses "the social analogy" of personal habits, where a person goes on about his life doing daily tasks unconscious of every little decision they take along the way, and focusing their concentrating their attention on the vital issues at hand. Furthermore, breaking away from

tradition especially with traditional

society such as the rural peasants,

it might be a "cultural murder", as

tradition is baked into their way

of living with all its safeguards,

and creating an alien architecture that does not respect their tradition will inevitably be disastrous, he adds "What may go in a cosmopolitan city like Paris, London, or Cairo, will kill a village."

Fathy clearly warns architects from willingly and blindly invading traditional societies with alien styles while they can with utmost artistry contribute to the tradition and the advancement of one's culture. He also warns of the pursuit of shiny products of the west that have invaded the defenseless markets of the villages. Europeans had their unique gods and their unique environment that shaped their architecture. A shepherd in the desert has his unique environment and beliefs that produce unique architectural devices that align with his view of the universe.

Hassan Fathy

Stone Matters

After the introduction and mass adoption of steel and reinforced concrete as the main building materials in the construction industry, the significance of stone gradually diminished as a building material in architecture and was reduced to a cladding solution, an exotic architectural veneer.

A notable shift has emerged towards sustainable and naturally derived materials within architecture. This movement, driven by a conscious response to the pressing climate crisis, has facilitated the revival of conventional building materials like heavy timber, bamboo, straw, mud bricks and stone. This resurgence holds the potential to reshape the discourse surrounding energy consumption in the construction industry, introducing a fresh perspective on the interplay between construction methods and environmental impact.

As the use of stone in construction was in the decline, some of the valuable knowledge that had been passed down through generations of stone masons and craft guilds faded away and efforts to revive the artisanal craftsmanship have been gaining momentum.



SUMMER 2023

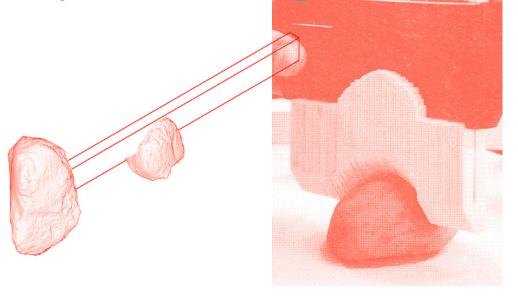
ELIAS & YOUSEF ANASTAS

WITH FOTEINI KALLIKOUNI & RACHITA VISWANATH

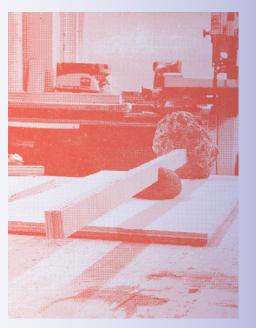
Not experimentation, but tinkering

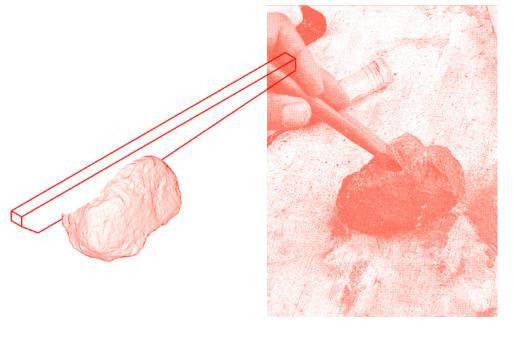
A tinkering-based exploration into the potential of stone and artisanry within contemporary architecture, offering insights from the past to inform future solutions.

Tinkering, unlike conventional experimentation, involves a more playful and iterative approach to exploration. While experimentation typically follows a structured process with defined hypotheses and outcomes, tinkering is characterized by hands-on exploration, curiosity-driven discovery, and a willingness to embrace unexpected outcomes. In our approach, tinkering allows us to engage with the material in a more intuitive and open-ended manner, enabling us to uncover new possibilities and push the boundaries of traditional stone craftsmanship within architectural design.

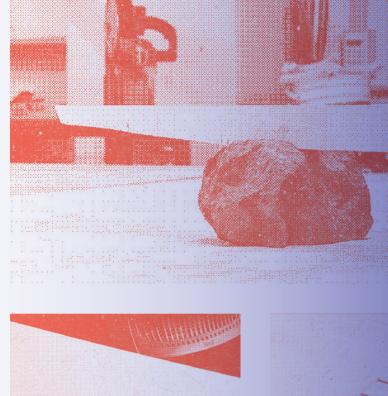


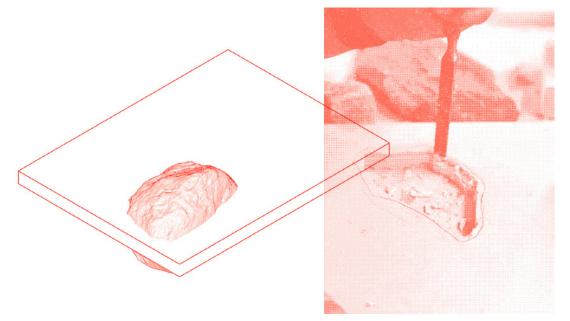


















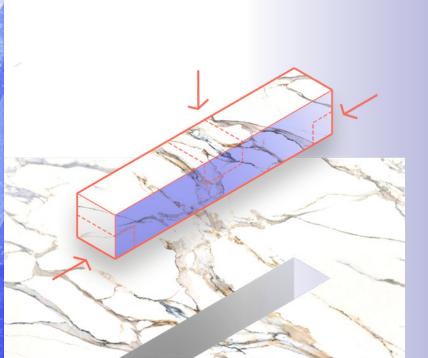
Stereotomy

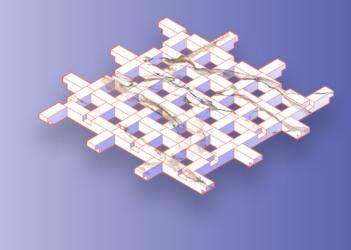
Stereotomy, the art of cutting stones into particular shapes for the construction of vaulted structures, is an ancient art that has been practiced over a wide chronological and geographical span, from Hellenistic Greece to contemporary Apulia and across the Mediterranean Basin. Yet the history of ancient and medieval stereotomy is little understood.

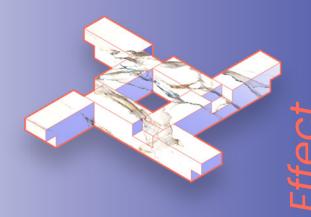
Reciprocal Frame Structures

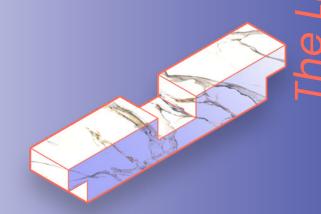
The reciprocal frame is a threedimensional grillage structure mainly used as a roof structure, consisting of mutually supporting sloping beams placed in a closed circuit. The inner end of each beam rests on and is supported by the adjacent beam. At the outer end the beams are supported by an external wall, ring beam or by columns.

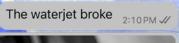
The mutually supporting radiating beams placed tangentially around a central point of symmetry form an inner polygon. The outer ends of the beams form an outer polygon or a circle. (Larsen, 2008)









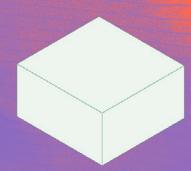




Foteini Kallikouni Whaaaaaat? _{2:16 PM}

Architectural Devices

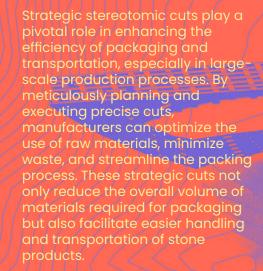
Through the process of tinkering, our explorations have serendipitously unveiled several architectural solutions tailored for contemporary challenges. Among these discoveries are innovative methods for seamlessly connecting two points, devising structurally sound cantilevers, and techniques for vertical construction. Our journey of tinkering has not only resulted in these practical solutions but has also fostered a deeper understanding of the inherent properties of materials like stone, allowing us to push the boundaries of traditional craftsmanship while addressing the evolving needs of modern architecture.

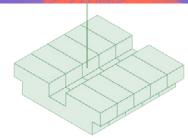


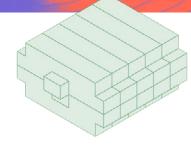


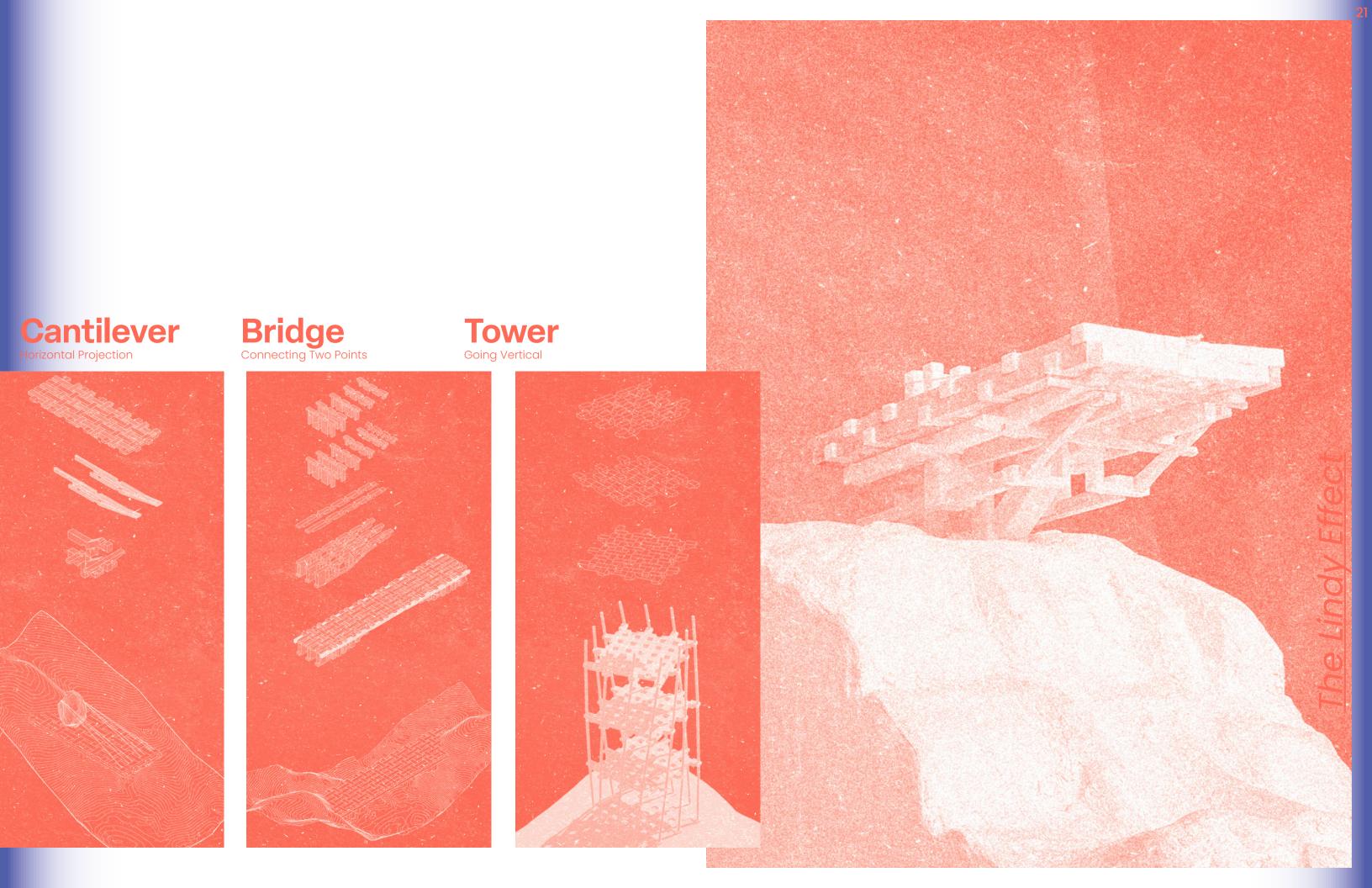


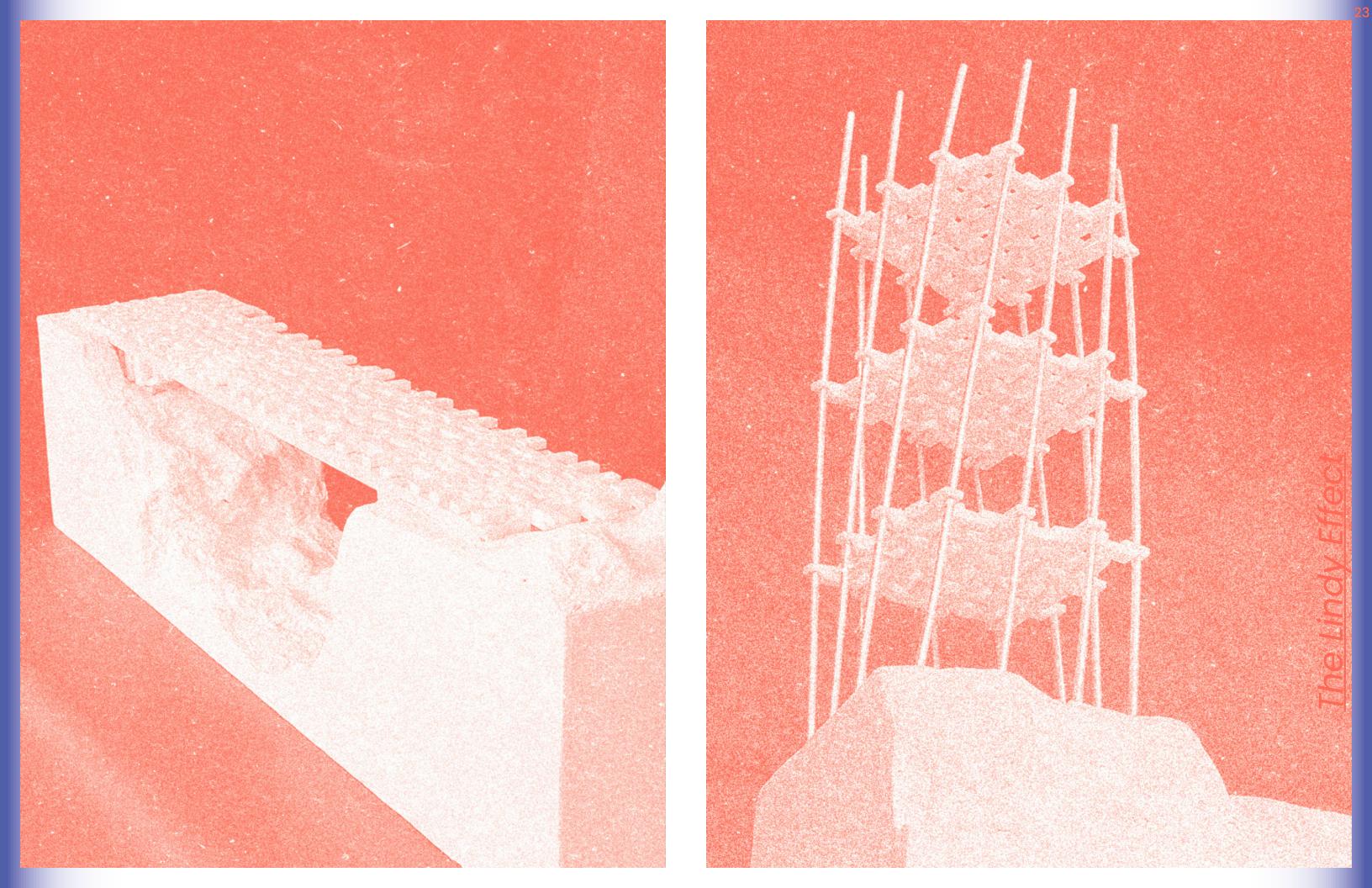












II.

SEUDORATIONALI Lecturing birds how

to fly

Superficial logic and an excessive dependence on flawed models neglect the complex realities and uncertainties of the real world. This tendency often overlooks the inherent randomness and unpredictability of complex systems, resulting in unwarranted confidence and poor decision-making.

The misuse of statistics further compounds this issue, fostering an illusion of understanding where none exists.

AIC

An ongoing inquiry initiated by architect Steven Holl. This exploration examine the intersections between music and architecture, investigating how rhymes and resonances can serve as springboards for new vocabularies and forms in architectural design1. The studio focuses on translating music excerpts into spatial, material, and formal expressions, creating a unique dialoque between these two immersive experiences—music and architecture. Through cross-disciplinary collaboration, students explore geometric potential, historical references, and innovative conceptual strategies, bridging the gap between sound and space.



Steven Holl for Rachaporn?

11:11 AM 🕢 2

SPRING 2024

WITH SIZHE WANG



From somewhere above — like a gleam of metal, like sunlight emerging from behind a ridgeline — comes the sound of flutes.

You are in a strange landscape.

You notice that the musical light has changed again. The sounds are even lower. You hear trombones and men's voices. The harmonies are clearer, but much deeper. You feel a sound through your feet — bass drums and double basses, rumbling softly, like distant thunder.

The music has become night. Is it ending?

The sound grows higher and brighter. The space around you seems to expand.

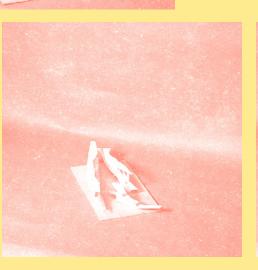
You ask yourself, "How long has it been?" And you realize you aren't sure.

- John Luther Adams New York Times

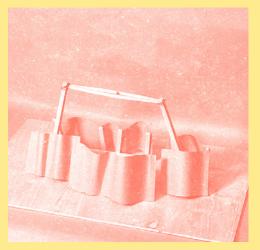
Palindromos

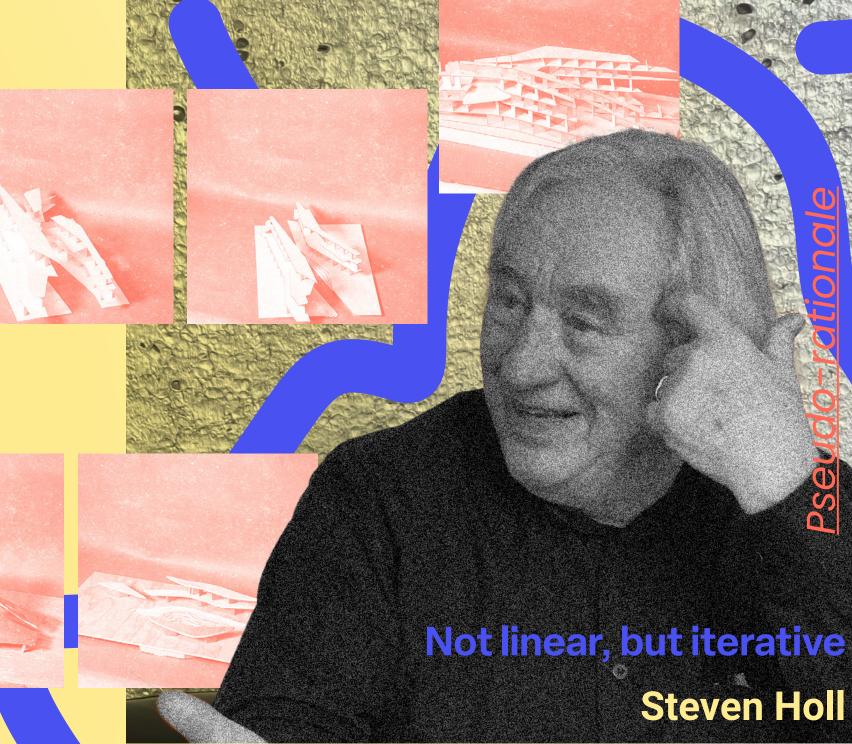
A palindrome of architecture is a journey through symmetries that agree and contradict. A dialogue between light and shadow, earth and sky, sun and water, oranges and pomegranates.

Iterative design processes, with their adaptability and openness to change, are naturally more conducive to creating antifragile architectures compared to linear processes, which may lack the flexibility to incorporate and benefit from stressors





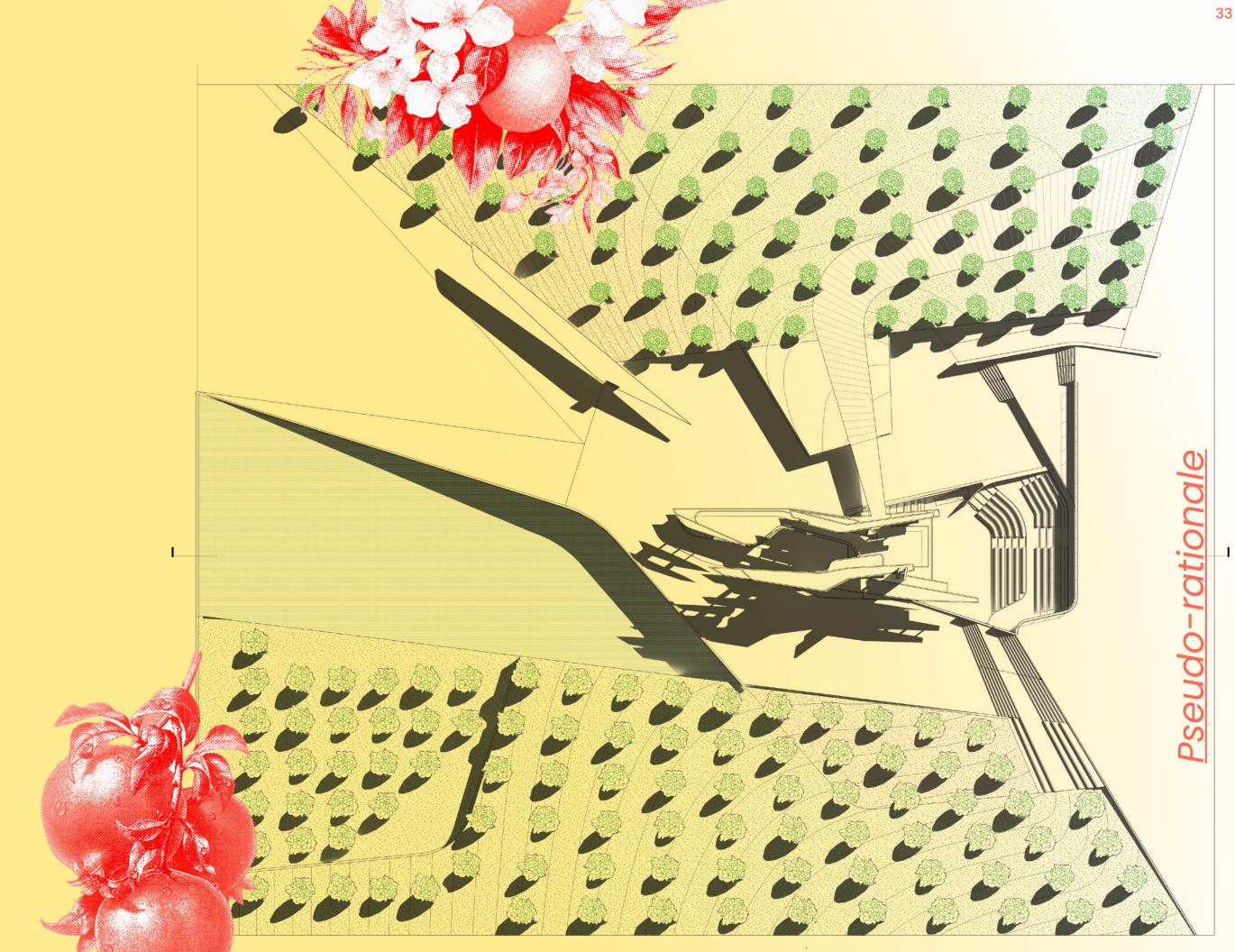


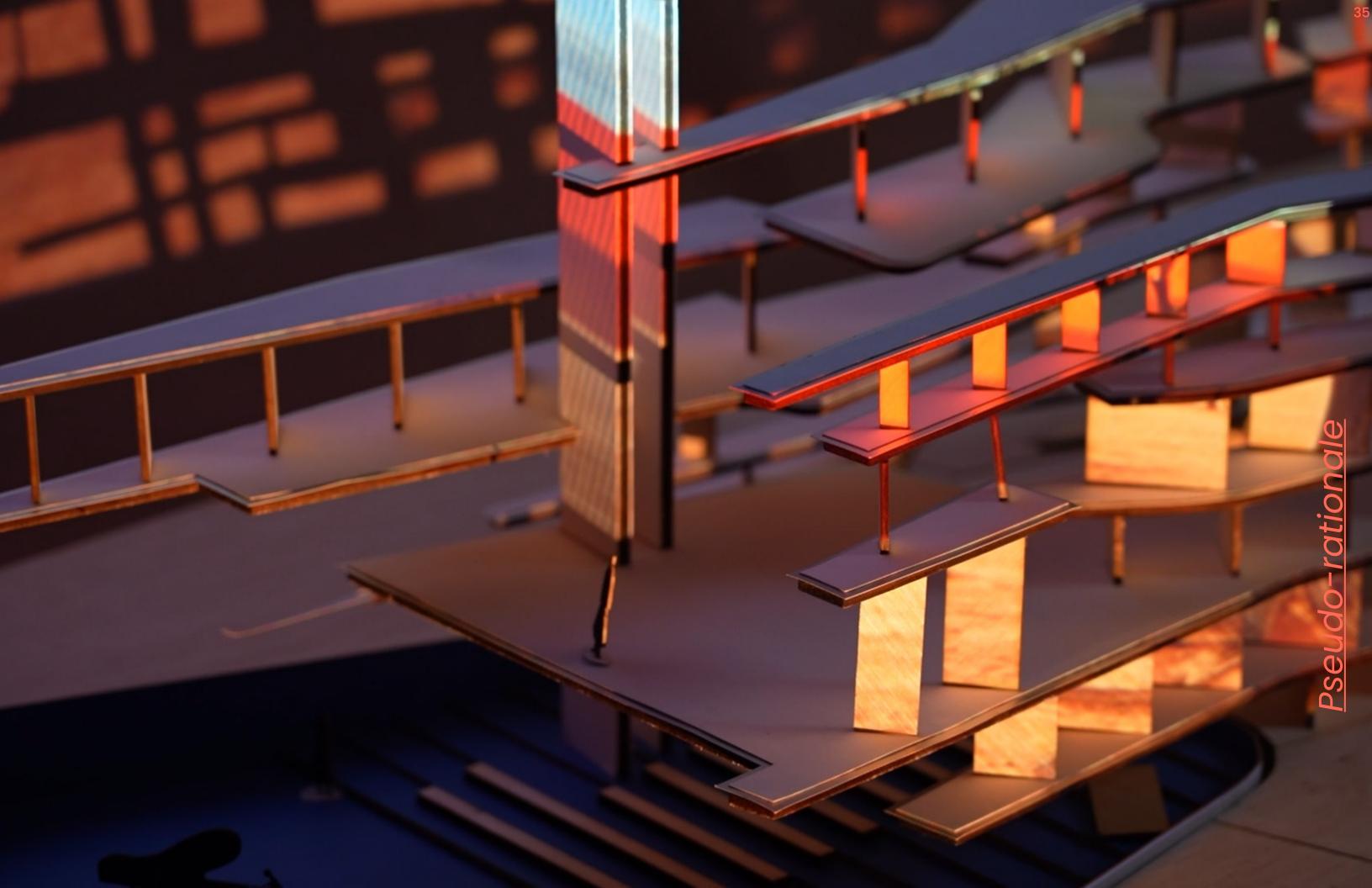


Palindromos

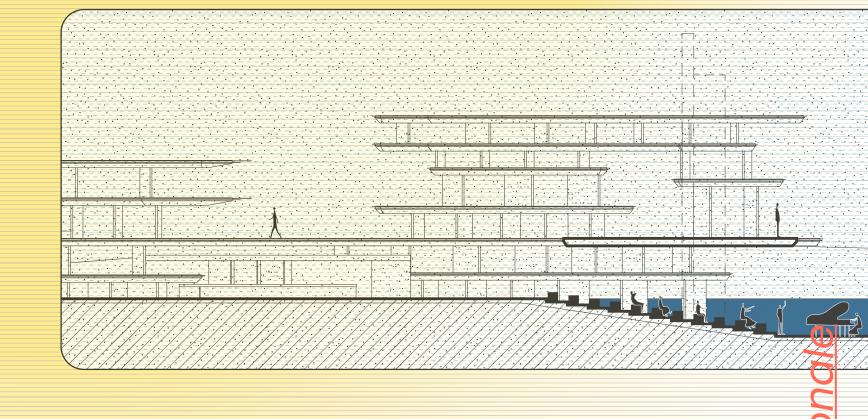
Music Chapel Granada, Spain

Our Project "Palindromos," is a slow, gradual movement that renders it inherently monolithic and opposing to deconstruction. Yet, within this seamless whole, three distinct themes emerge, offering the potential for translation into a nuanced architectural experience. The musical score unfolds with the ethereal tones of high instruments, reminiscent of a desert sunset, gradually descending into deeper tones resonating with bass and double bass, symbolizing the profound stillness of the night before rising anew to announce a new day.



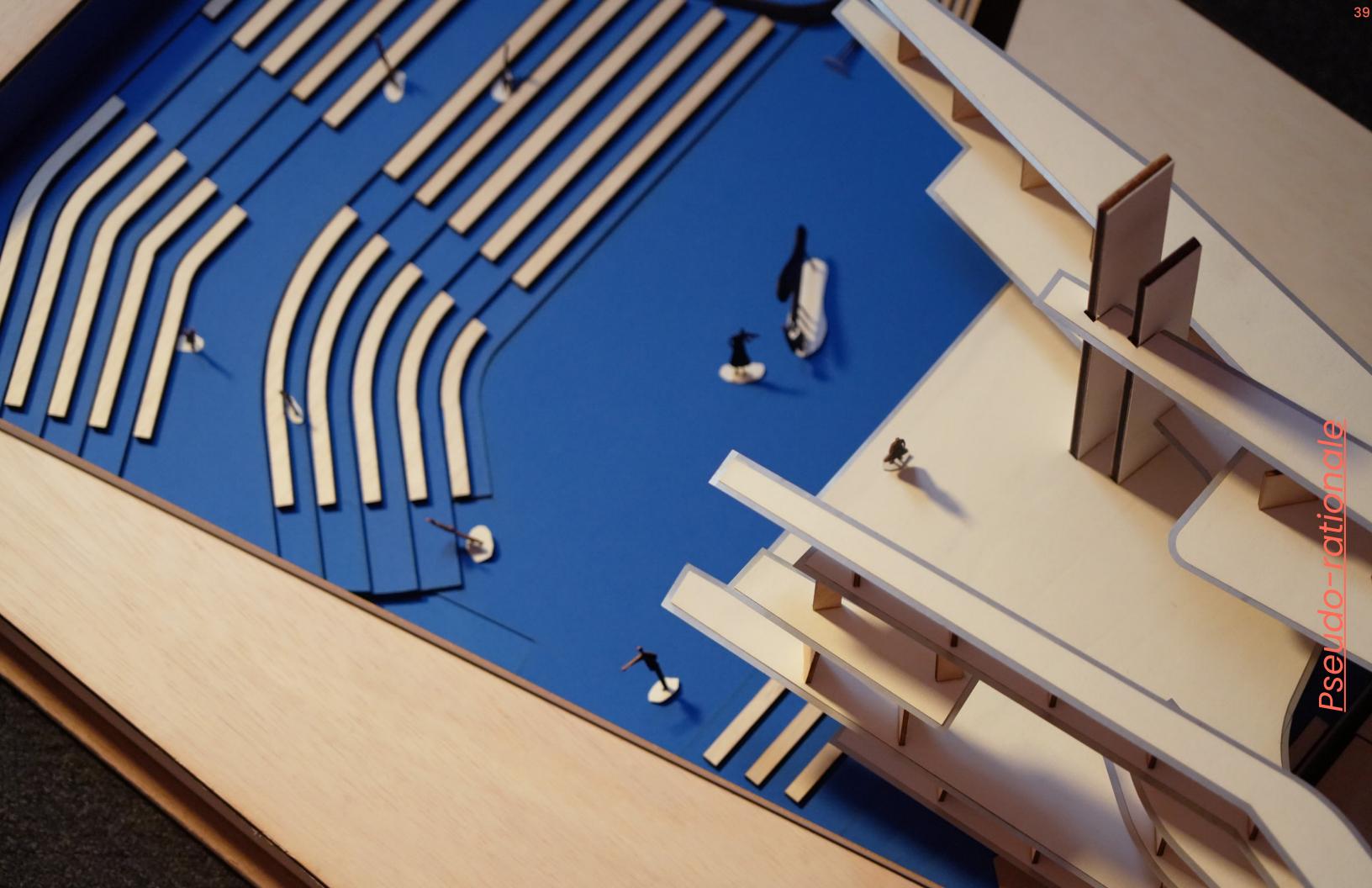


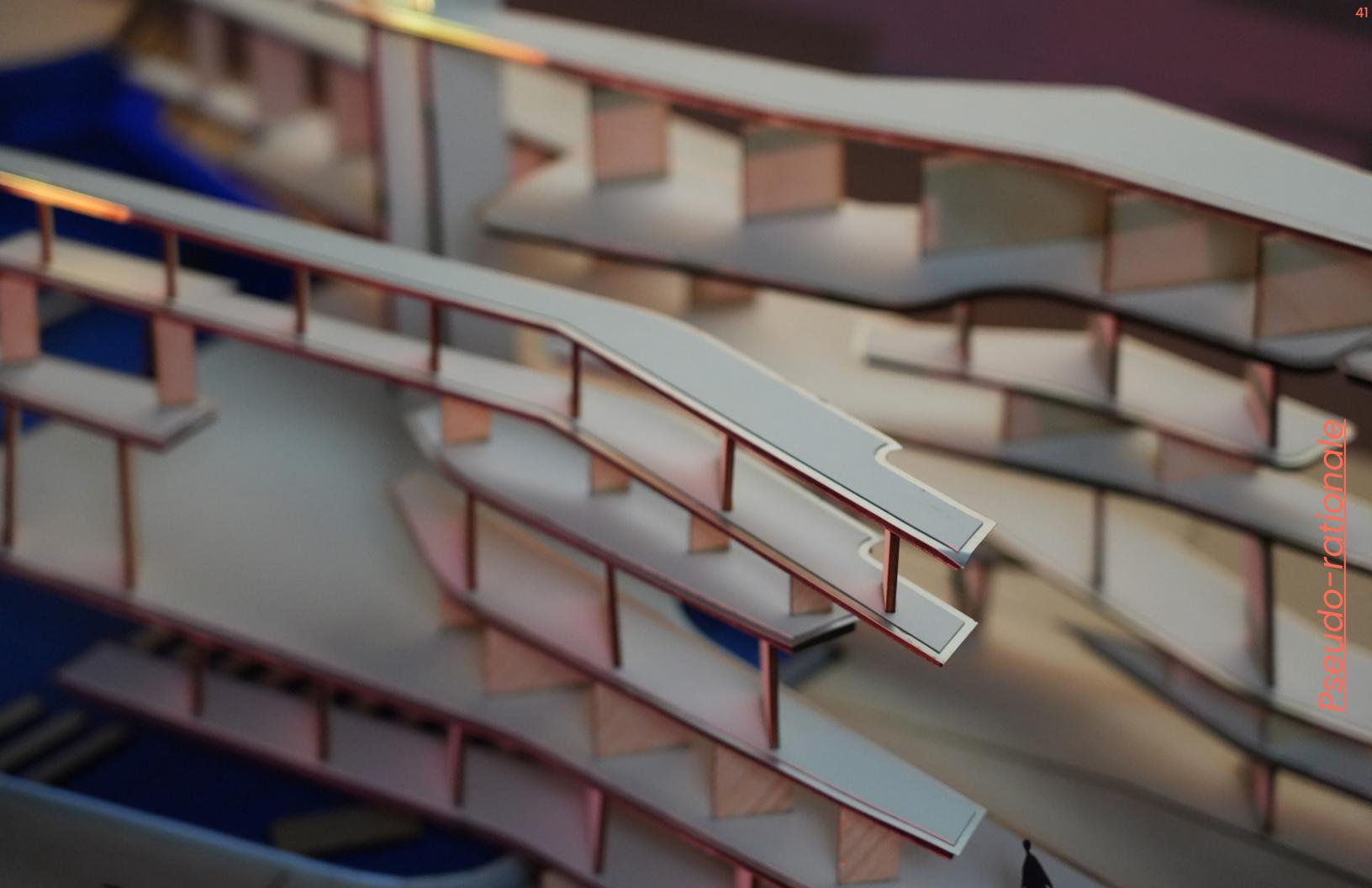




Mirroring the topographical features of deserts, our architectural structure serves as an emulation of a canyon, shaped over millennia by the relentless forces of nature. Through meticulous experiments with space and light, we strategically position vertical louvers along dynamic corridors and levels, creating a symphony of interplay between form and function. This deliberate manipulation of elements mirrors the nuanced tonalities present in Adams' composition, contributing to a spatial experience that is both unique and immersive. Occupants are invited to traverse a landscape that unfolds akin to a musical journey, where each corridor and level functions as a note in the architectural score. "Palindromos" originates from ancient Greek, and the structure tries to echo the cyclical nature of time, encapsulating the transformative beauty of the desert – from the sunlit peaks to the shadowy depths and back again in a palindromic fashion. The interdisciplinary fusion of music and architecture elevates the project beyond a mere structure, craft-

ing a harmonious synthesis that seamlessly weaves together artistic inspiration and the natural world, offering a profound and enriching experience for those who engage with it.





Excerpt from
Fragile Half Earth
Arguments, Summer 2023

History is carved by the highly improbable and unpredictable events i.e., black swan events, look at WWII, 9/II, the Internet and social media, the rise of both Christianity and Islam, and the Fall of the USSR are all paradigm shifts that no one could have predicted despite everyone trying to rationalize, theorize, intellectualize, philosophize the causes the led to said events with the benefit of hindsight.

Controlling and stabilizing complex systems will most probably make them more fragile and prone to black swan events and will self-correct by collapsing and so is scaling up, centralizing, optimizing, and effecientizing their networks, errors and failures will be catastrophic and spread like fire through the network. So, to deal with any complex environment such as climate, economy, or a city, we'll need almost the exact opposite of the Half-earth socialism proposal, a small, local, decentralized, inefficient, and non-optimum network, with big margins for volatility and uncertainty. Errors and failures will be local and stay local, they will feed back into the self-correcting system and improve and evolve to counter future errors i.e., Antifragile (Taleb, 2012).

This is not an attempt to undermine the scale or urgency of the problem we have at hand, regarding climate

change and consumerism, nor is it to undermine the good intentions of proposals such as Half-Earth Socialism, but it's about modernity's approach toward problem-solving, about the iatrogenics of naïve interventionism, causing harm while trying to help.

Small is beautiful, and it's never 'too big to fail', whether it's a bank, corporation, or government. It's local, it's diverse, it's resilient, and with a little luck, it might survive an asteroidal impact even if it's a couple of billion years later.

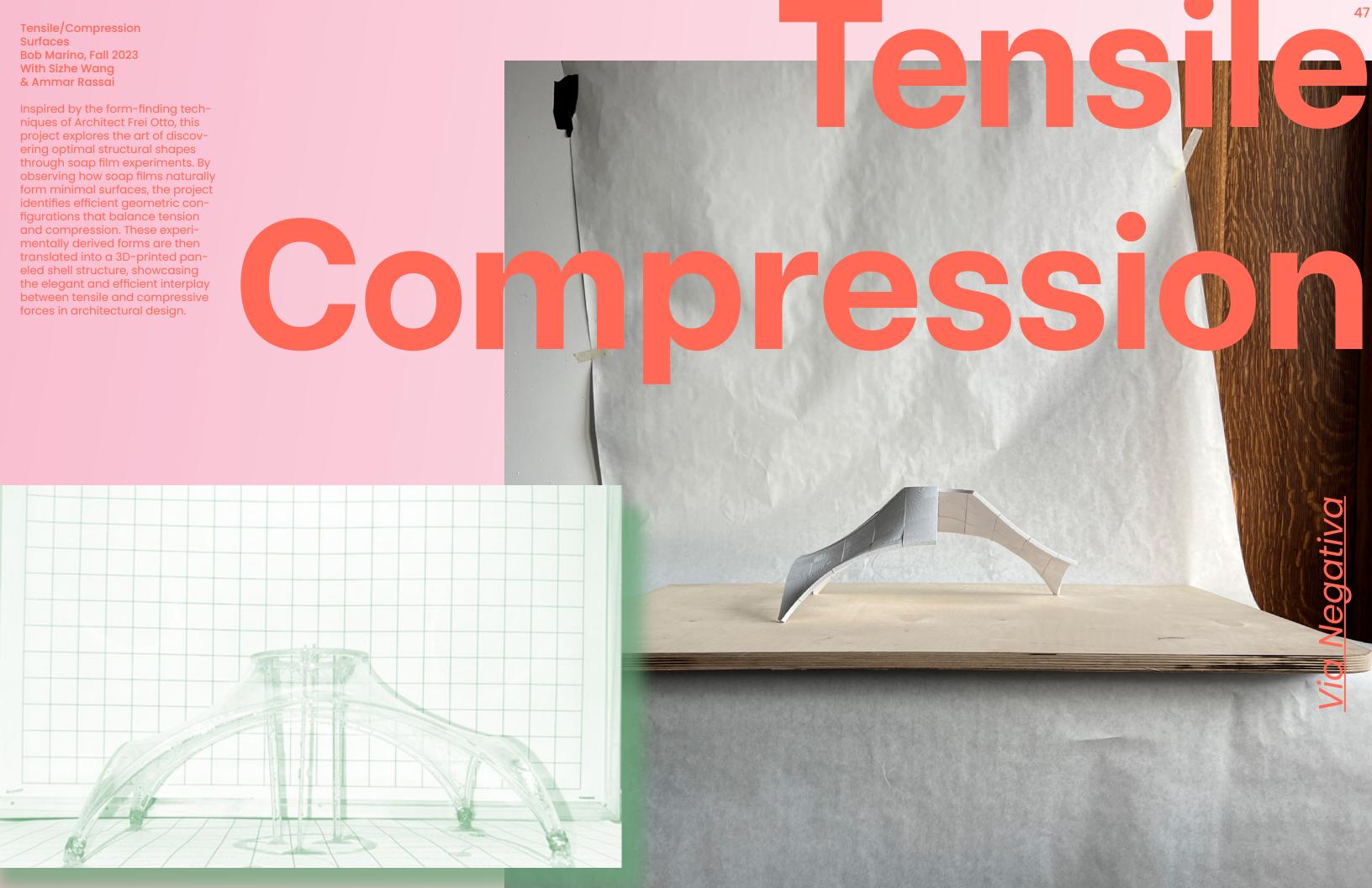


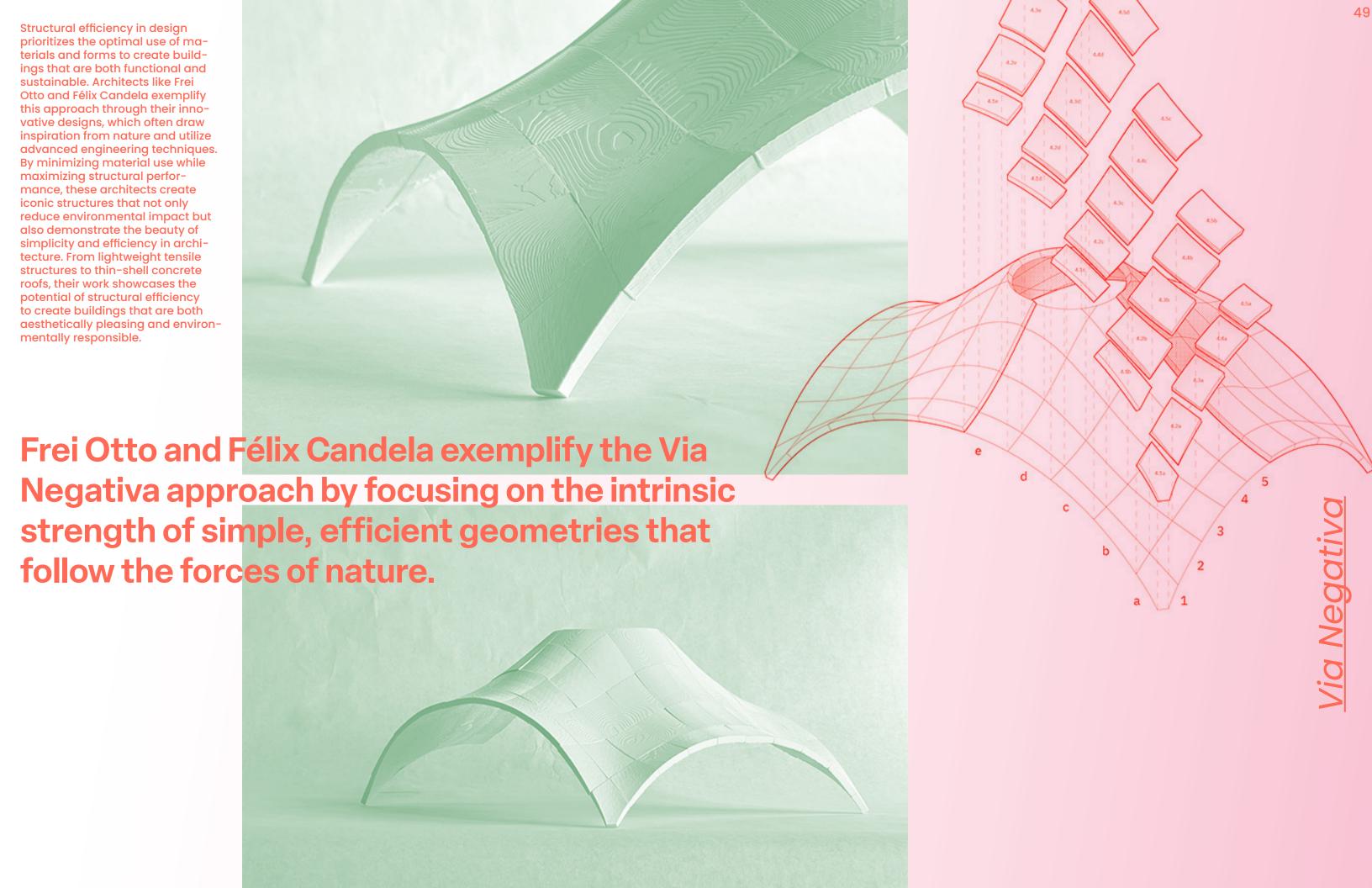


Intervention CATIVA

through omission

The power of improvement through subtraction rather than addition. It suggests that removing negative elements, such as bad habits, unnecessary complexities, and harmful practices, can lead to better outcomes and more robust systems. This approach aligns with the idea that often, less is more, and simplification can lead to greater clarity, efficiency, and overall well-being. The concept advocates for focusing on what to avoid or eliminate rather than interneve with an additive solution.





3 Gomming For quite some time, architecture's fascination with starting anew with fresh forms, materials, and absolutes – has drawn a clear distinction between the past and the future. Yet, this division is more theoretical than practical. In reality, old and new elements coexist, often nmunity intertwined for various reasons, from practicality to nostalgia. Ideas persist across time, flowing in a continuous stream. Indeed, stepping into a space devoid of either old or new feels stifling. The old records history for the new, while the new thrusts the old into the present. In this studio, we delve into the passionate relationship between the past and the future.

We take architectural elements deemed «outdated» or «disdained» due to their obsolete forms, expired materials, or antiquated systems and breathe new life into them. Through embedding, bonding, tracing, and transforming, we rejuvenate these elements, infusing them with fresh relevance and

vitality.

THE COMING COMMUNITY

FALL 2023

WITH ZAHA MADDAN

Prompt: Objects of the Guggenheim

Ergonomic Objects

Performance



The performance objects of the Guggenheim encompass the dynamic acts and events that unfold within and around the architectural space of the museum. These performances, both planned and spontaneous, shape and utilize

Guggenheim's spaces in formal and informal ways. Whether it's a carefully curated exhibition, a live art installation, a theatrical performance, or simply the movements and interactions of visitors navigating the museum's

iconic spiral structure, these performances animate the space and contribute to its identity as a cultural engine.

The contingent objects are the actors within and around the Guggenheim—both living and nonliving, human and transhuman—that depend on the events occurring within the museum's space for their existence.

on the energy and activities generated by the Guggenheim's events and performances, finding

vibrant cultural ecosystem. They contribute to the dynamic vitality of the Guggenheim, enriching its identity and function as a nexus of creativity and interaction.



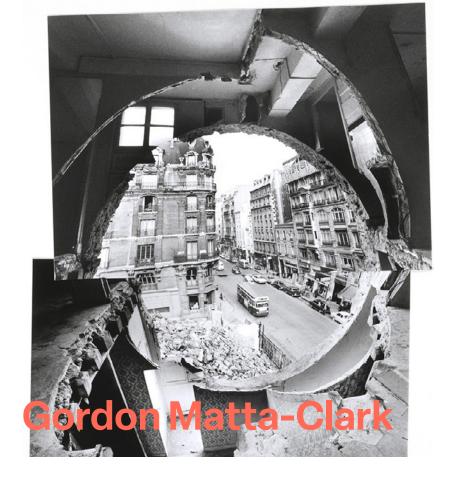
Architectural Objects

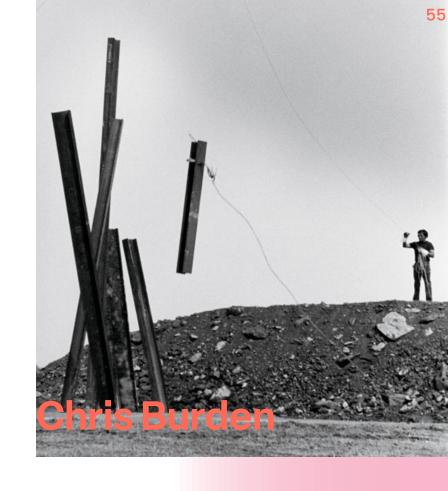


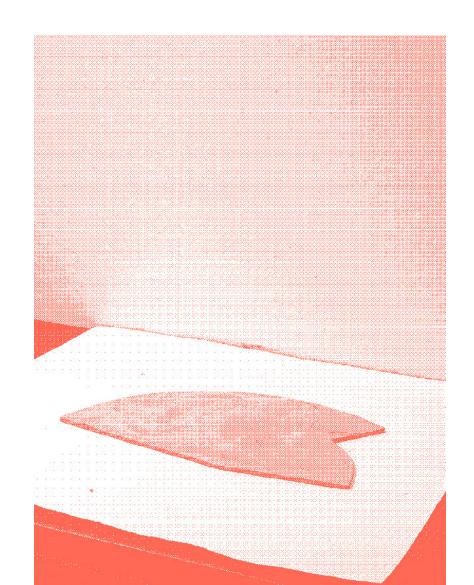
Creative chaos and heroic acts

Embracing uncertainty and drawing inspiration from the works of artists like Gordon Matta-Clark and Chris Burden, our approach delves into experimentation and study through physical models of concrete slabs. Inspired by Matta-Clark's deconstructive interventions and Burden's daring performances, we challenge conventional notions of stability and form in architectural design. By subjecting concrete slabs to deliberate acts of breaking and reinforcing, we explore the dynamic interplay between strength and vulnerability, order and chaos. These heroic acts of creation and destruction generate high energy and attention, captivating both participants and observers alike. Through these

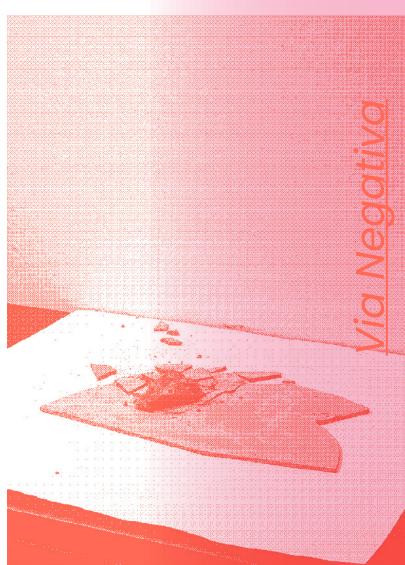
experiments, we seek not only to uncover unexpected aesthetic expressions but also to interrogate the material properties of concrete and the structural principles that govern it. In embracing uncertainty, we open ourselves to the possibility of discovery, pushing the boundaries of conventional design methodologies to forge new paths of creative exploration.









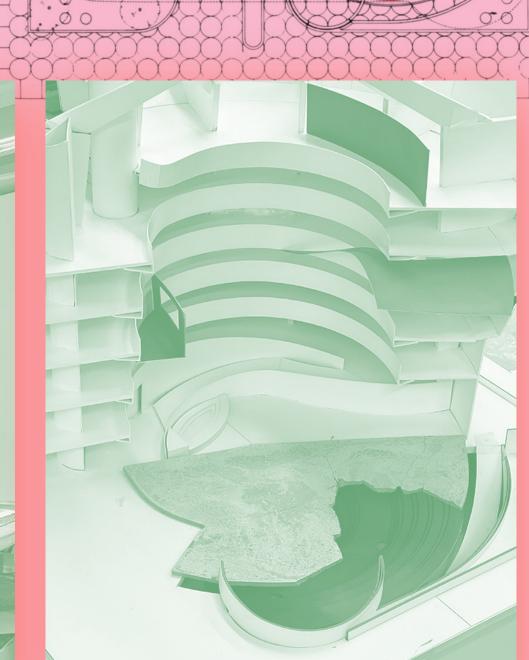


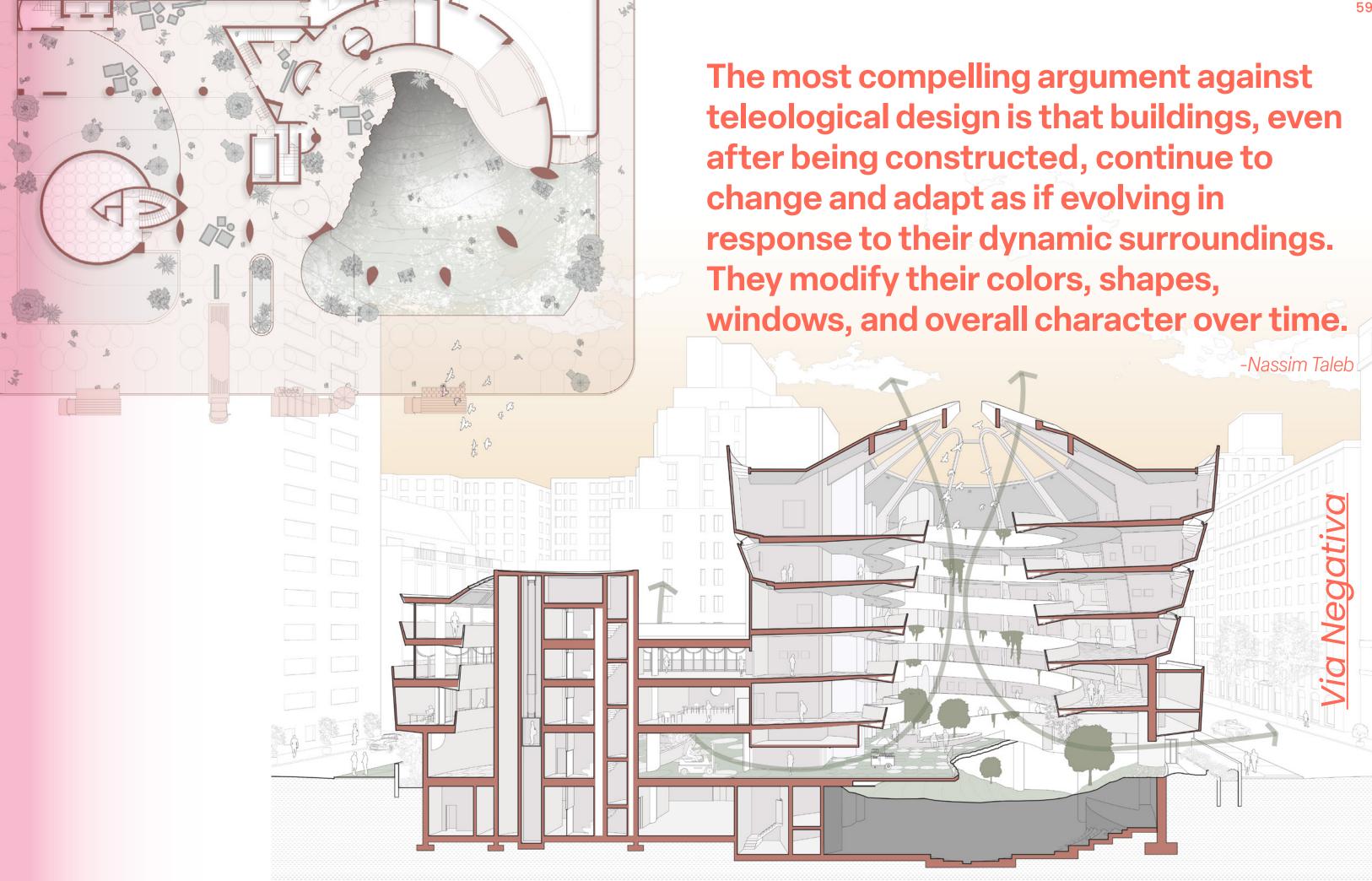
latrogenics and intervention thorugh omission

Navigating the complexities of intervention and mitigating the potential for iatrogenics often leads us to consider the power of omission. From a skeptical stance regarding the limitations of human knowledge, grasping control over outcomes within intricate systems proves challenging. The Guggenheim, operating as a complex ecosystem, underscores this challenge. Rather than assertive manipulation, our approach hinges on strategic omissions, recognizing that attempts at improvement may inadvertently trigger unforeseen consequences. By carefully

selecting where and when to intervene, we aim to navigate the intricacies of the Guggenheim's ecosystem, fostering progress while minimizing the risk of unintended side effects







IV.

SKIN IN THE GAME tive by the sword, die by the sword

The importance of accountability and alignment of interests. It asserts that decision-makers should bear personal risks and consequences from their actions, ensuring responsible and ethical behavior. This alignment fosters fairness and efficiency, as individuals with a personal stake are more likely to act in the best interest of all stakeholders. It is bullshit identification and



BBI

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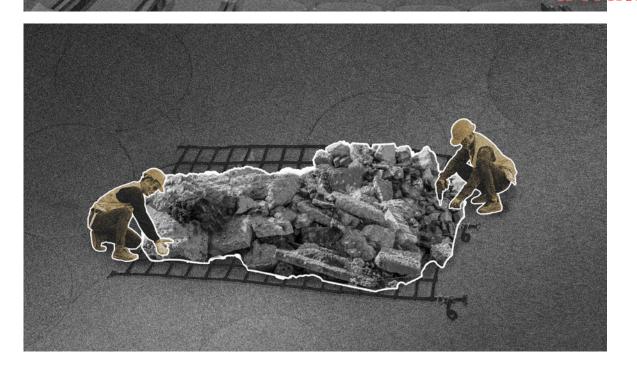
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not live a f a life

and do not die a half death

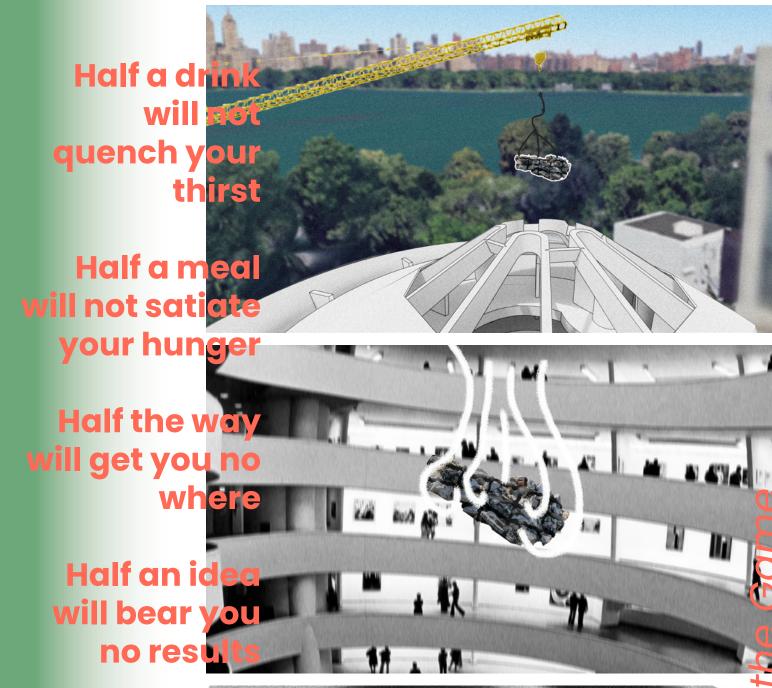




then express it bluntly Do not mask it





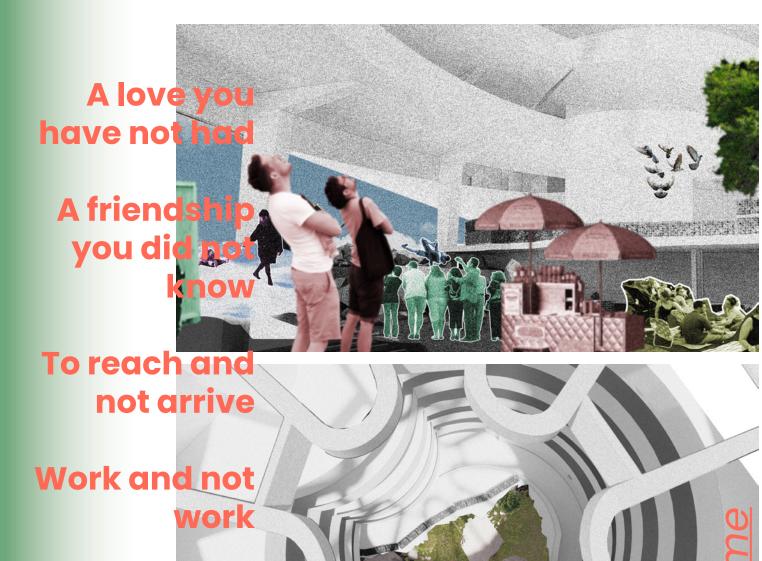






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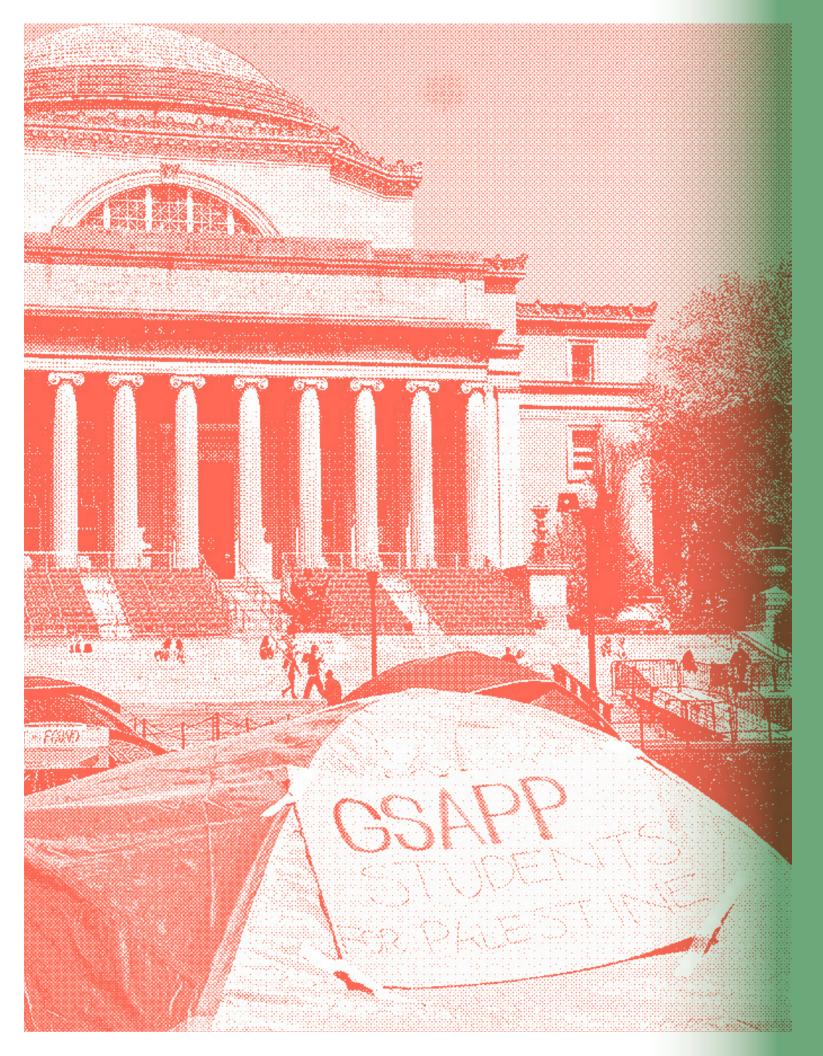






Attend only to

be absent



The half is a mere moment of inability

but you are able for you are not half a being

You are a whole that exists to live a life

not half a life

Kahlil Gibran

Acknowledgment

Embarking on this explorational journey and producing this work required the generous assistance and support of many individuals, some of whom made significant sacrifices to enable its completion. For their invaluable contributions, I am profoundly grateful to my colleagues, friends, and family.