

01 | [WASTESCAPE]

QUE ZHANG

PORTFOLIO ADVANCED ARCHITECTURAL DESIGN SELECTED WORKS FROM 2022-2023 GSAPP

03 Sheeler, Precisionism and the Technical Sublime



04| [BECOME A FESTA: REWEAVING RYUKYU]



02 | The Expected Unexpected]



O1 [WASTESCAPE]

[LOCATION] MANHATTAN, NY
[ACADEMIC] 2022 SUMMER, ADV STUDIO
[INSTRUCTOR] DAVID MOON
[COLLABORATOR] NUOFAN XU



Speculative Urban Infrastructure

If you in an apartment building on the roosevelt island, you throw your trash out into the pipes like in other high-rise apartments. But oulike the conventional ducts, roosevelt island has a mechanical vaccumm sucking system that bring the ducts together, send your waste directly to the compacting facility. Image above is the control room inside the central facility of this complicated tube system. Built in 1974, the system serves more than 14000 residents on the island. By depolying the system, one can rarely spots garbage trucks or waste bags piling up on the streets, so common in other areas of NYC.

Roosevelt Island Automated Vacuum Assisted Compacting facility Roosevelt

Young, Michelle. "Inside Roosevelt Island's Futuristic Pneumatic Tube Trash System." Untapped New York, April 9, 2020. https://untapped.cities.com/2020/04/09/inside-roosevelt-islands-futuristic-pneumatic-tube-trash-system/.

Nuofan Xu



Scaffolding

Scaffolding fell on Broadway and Prince in the Soho neighborhood of New York, Nov. 19, 2017. Why Is There So Much Scaffolding in NYC? As Local Law 11 requires new fillings for each building every five years, every city block will have buildings going through various stages of facade repairs — perhaps for months or even years.

Scatfolding collapse in New York City's busy SoHo neighborhood 2017 abcnews.go.com

Que Zhang



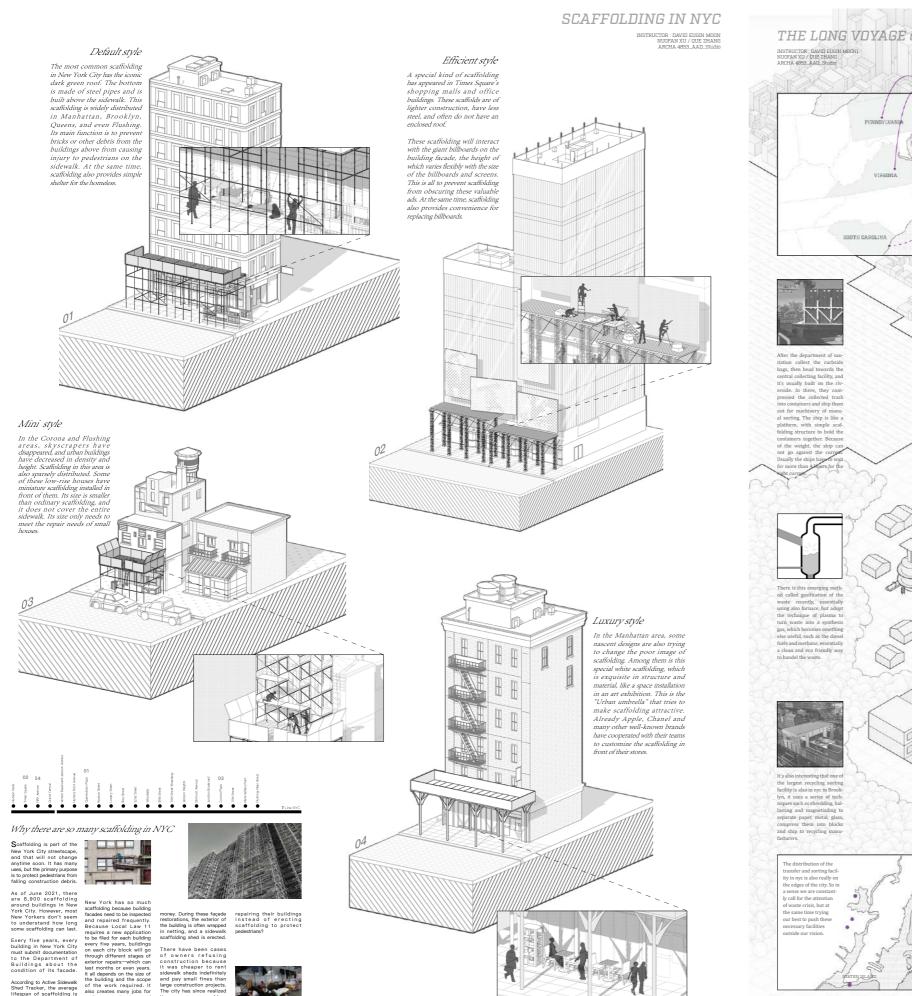


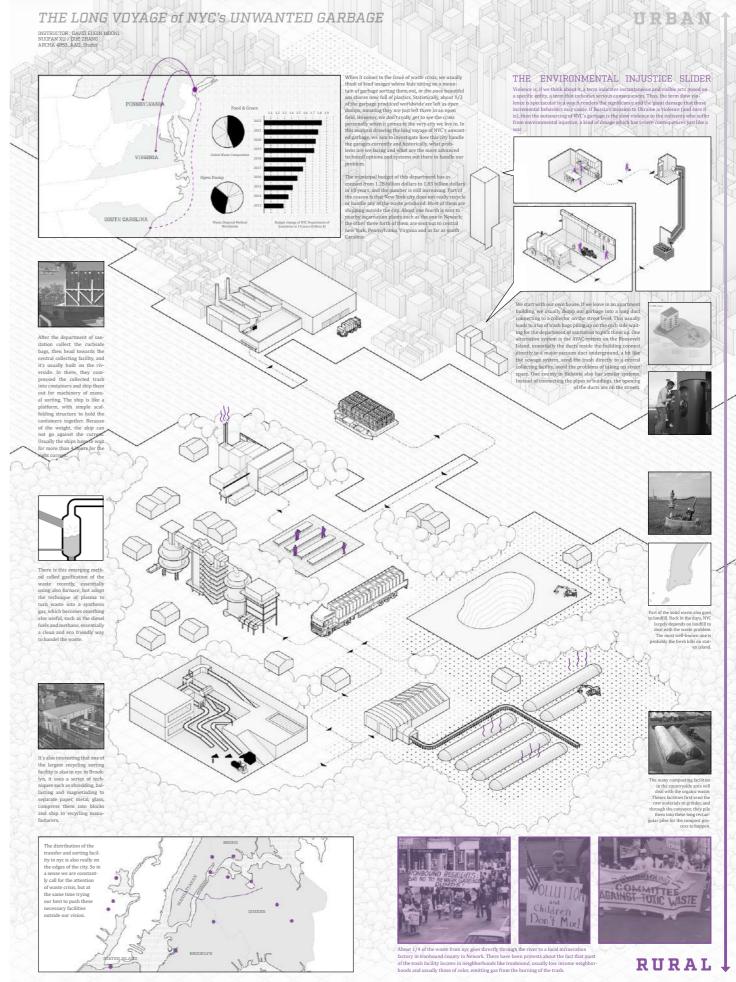




VIGNETTES 02







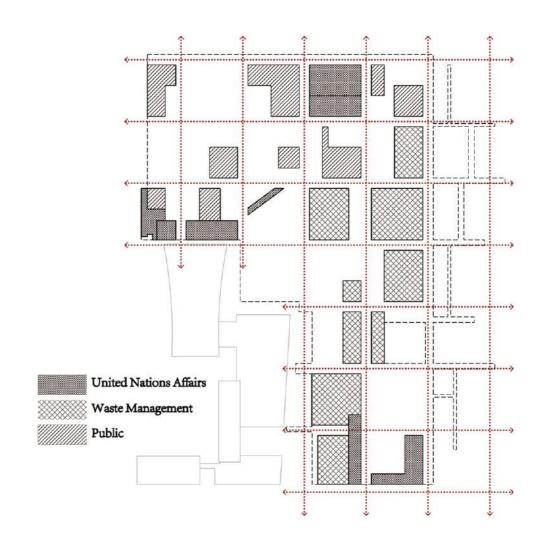
GARBAGE DISPOSAL FACILITIES IN THE UNITED NATIONS HEADQUARTERS 01

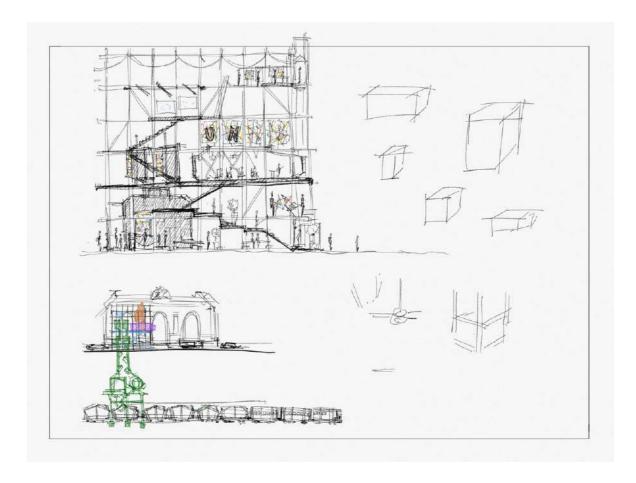


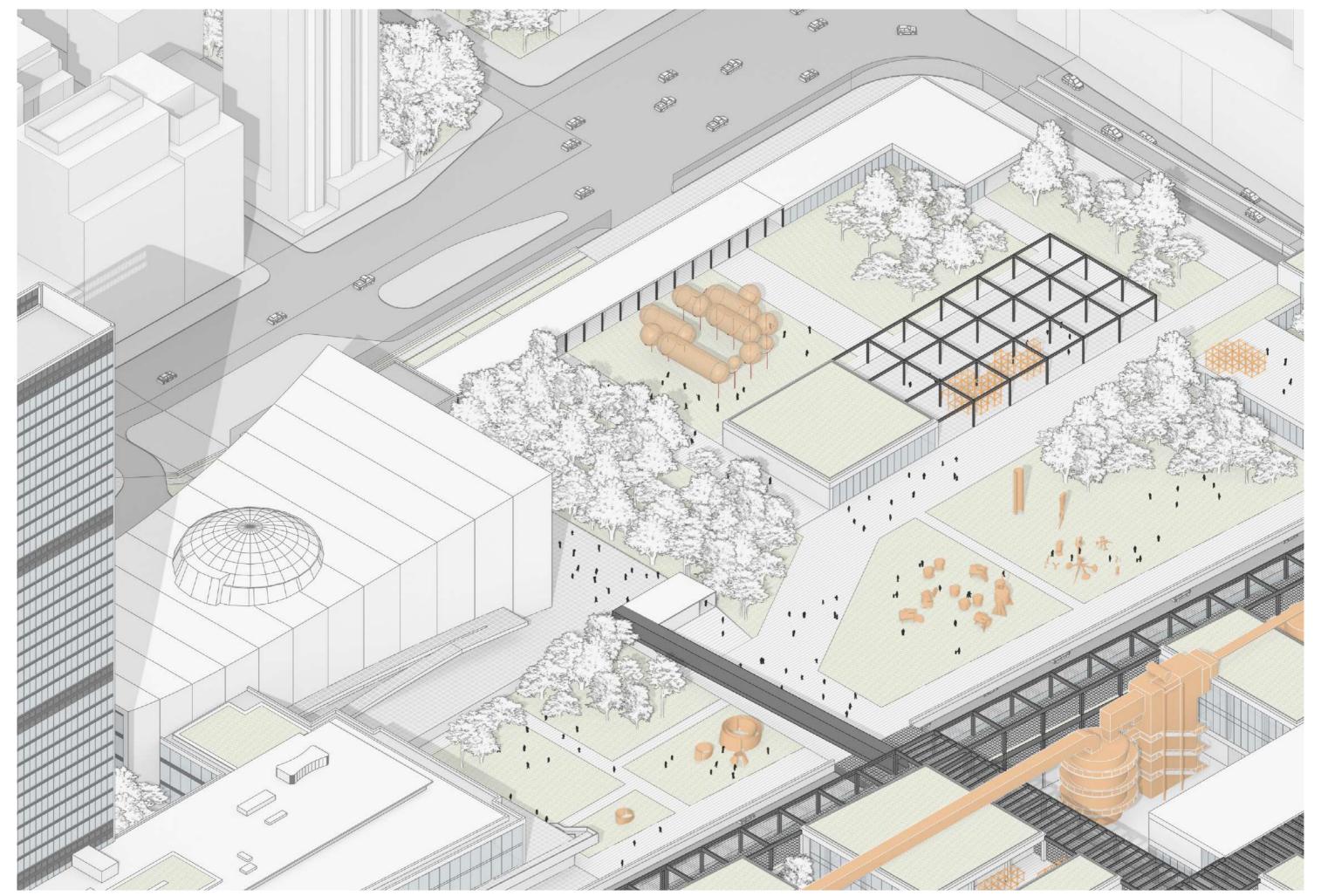


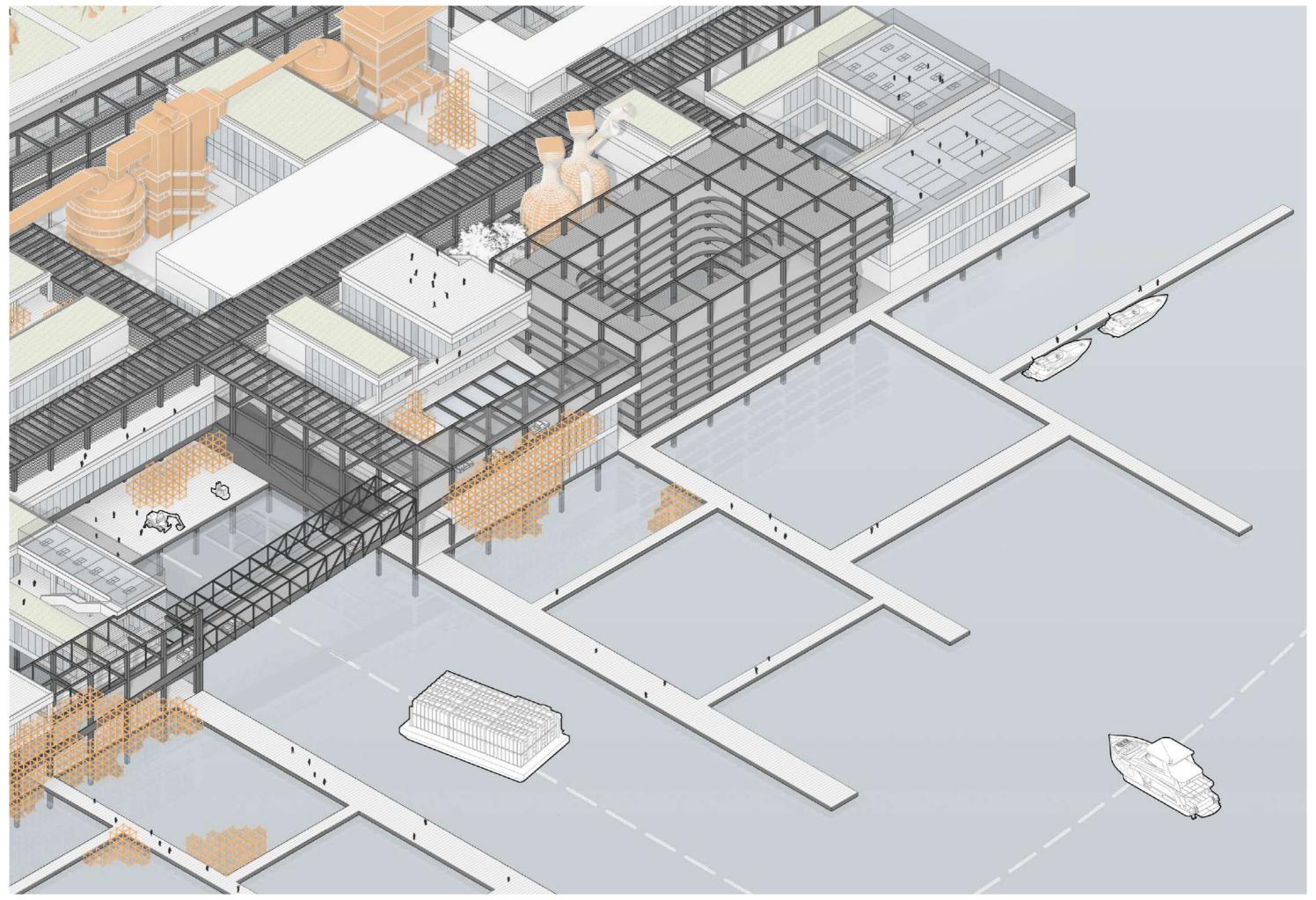


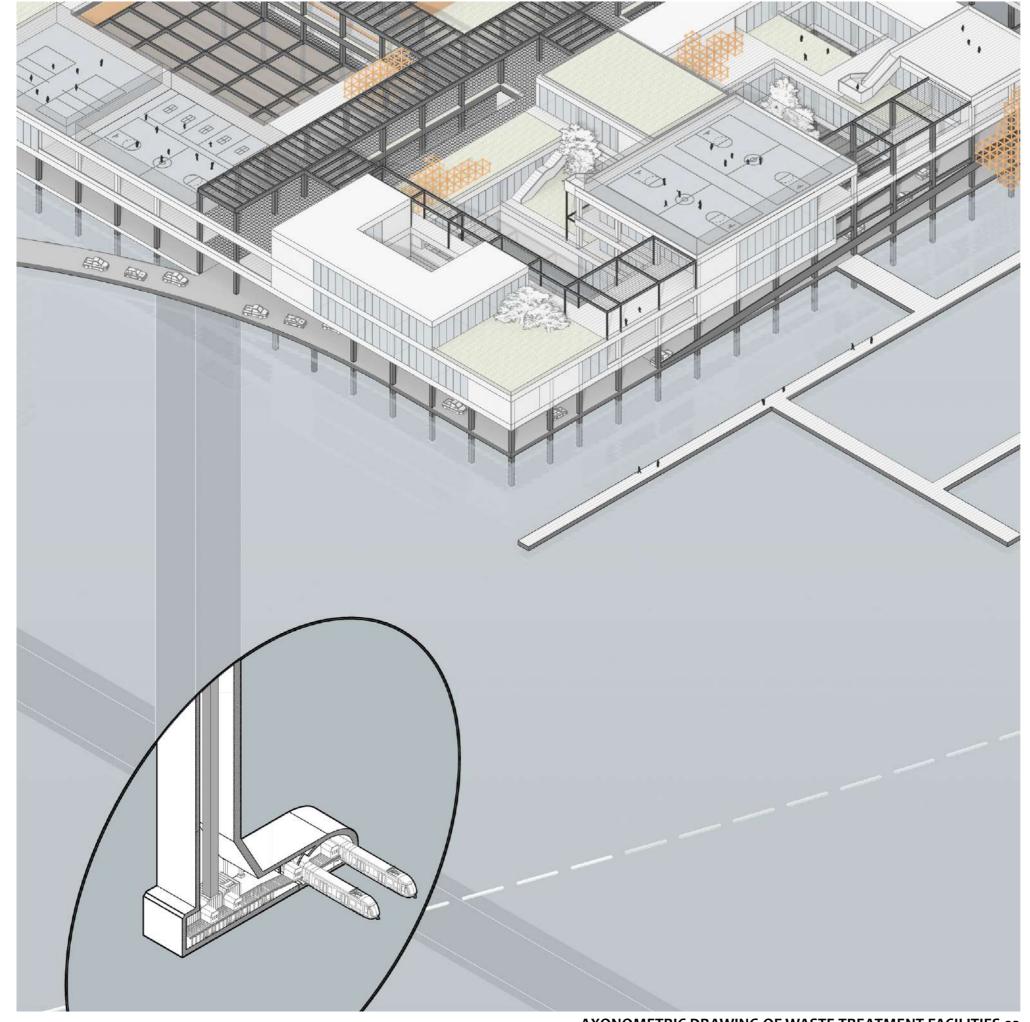
MAT-BUILDING: WASTE TREATMENT FACILITY SKETCH 01

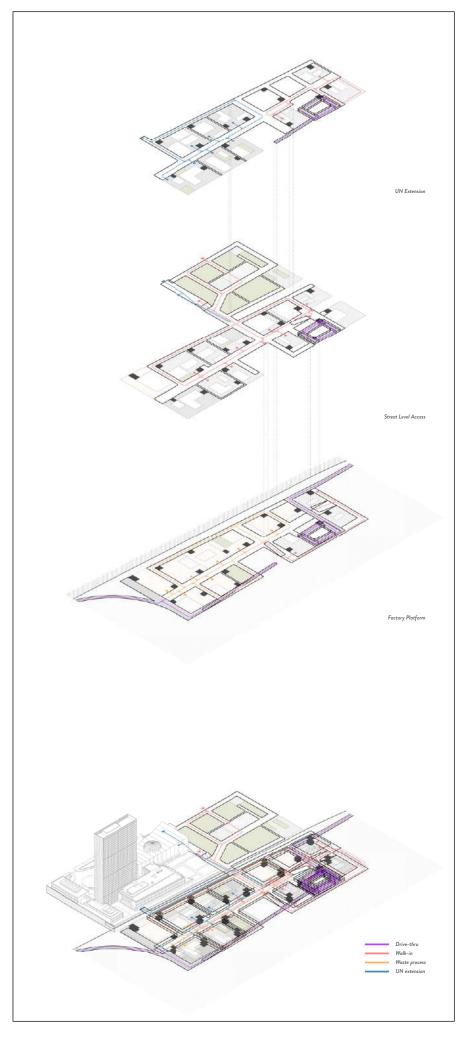




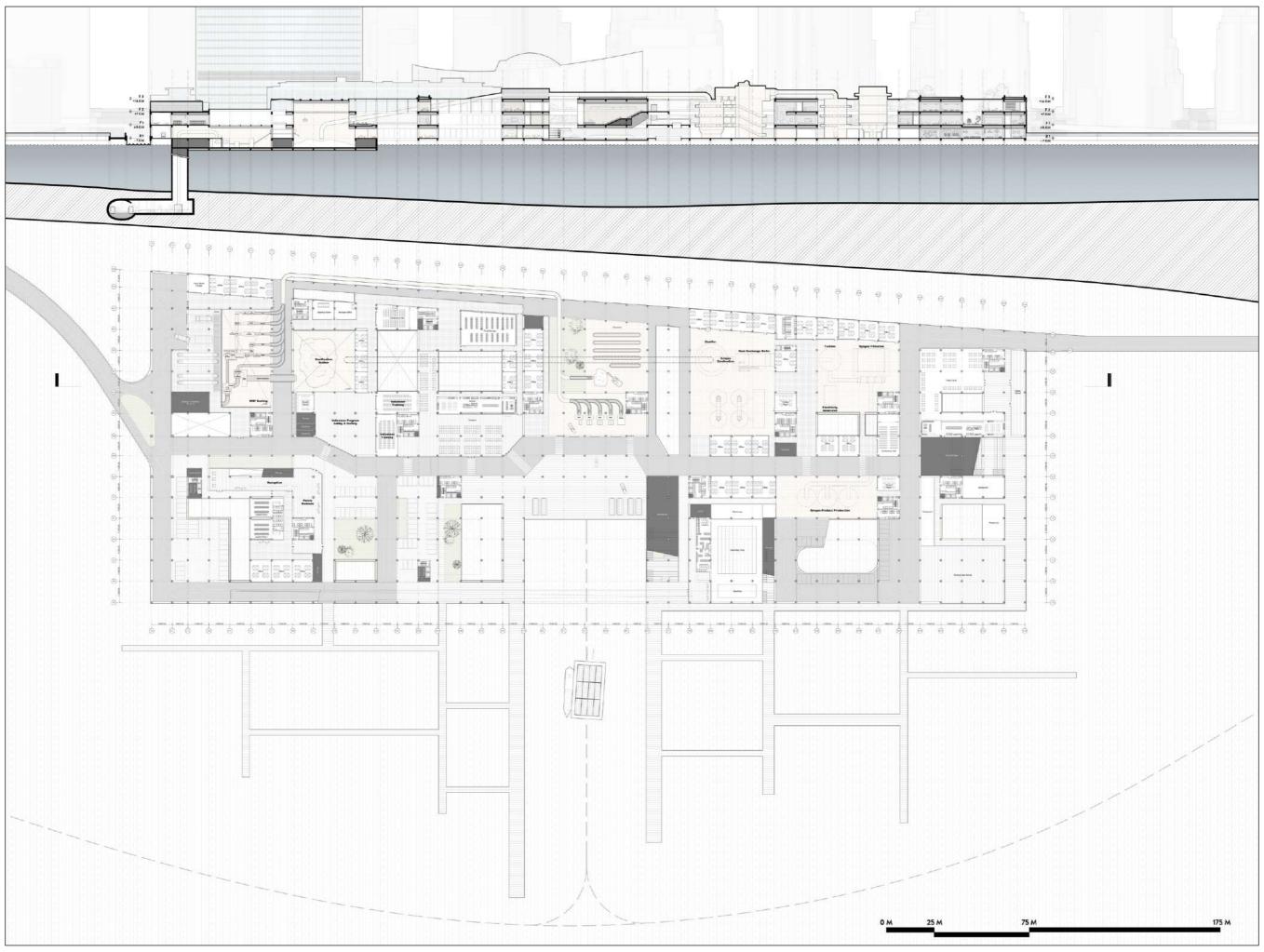








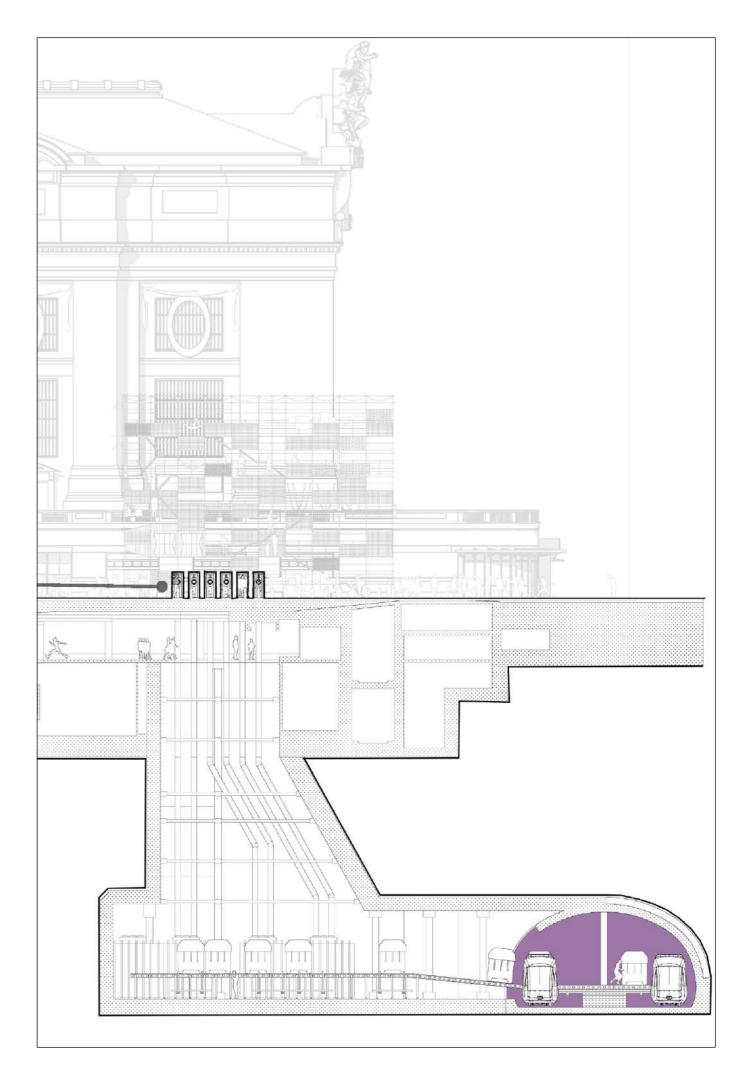
AXONOMETRIC DRAWING OF WASTE TREATMENT FACILITIES 03

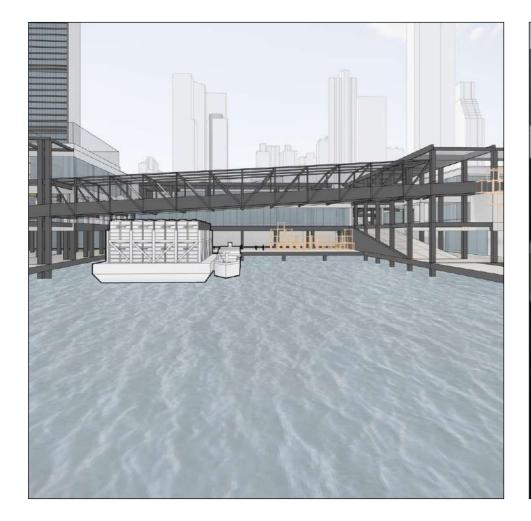








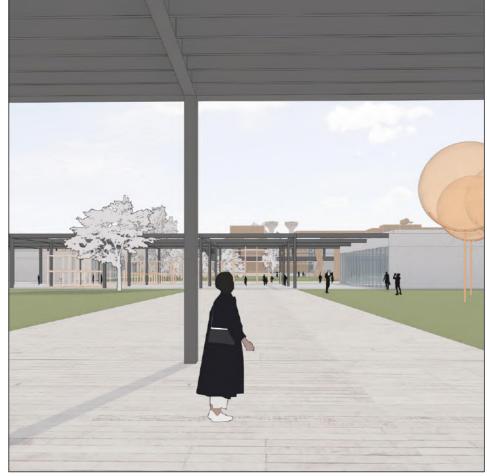




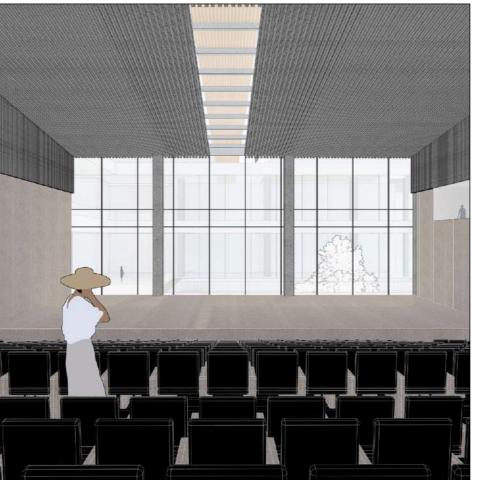




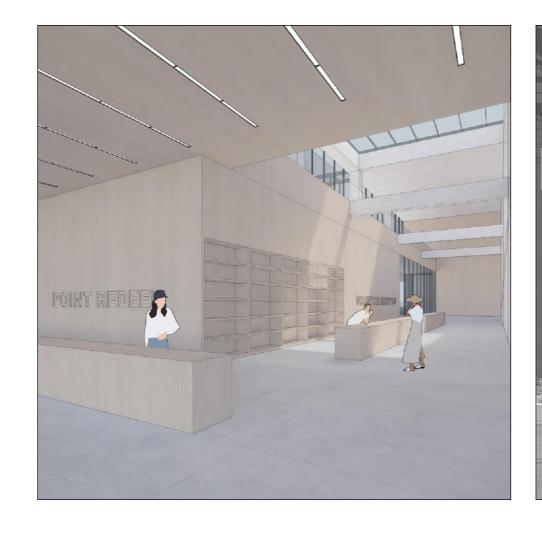














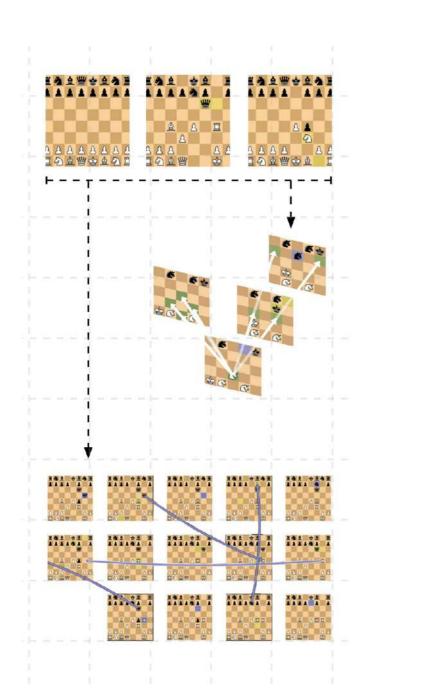




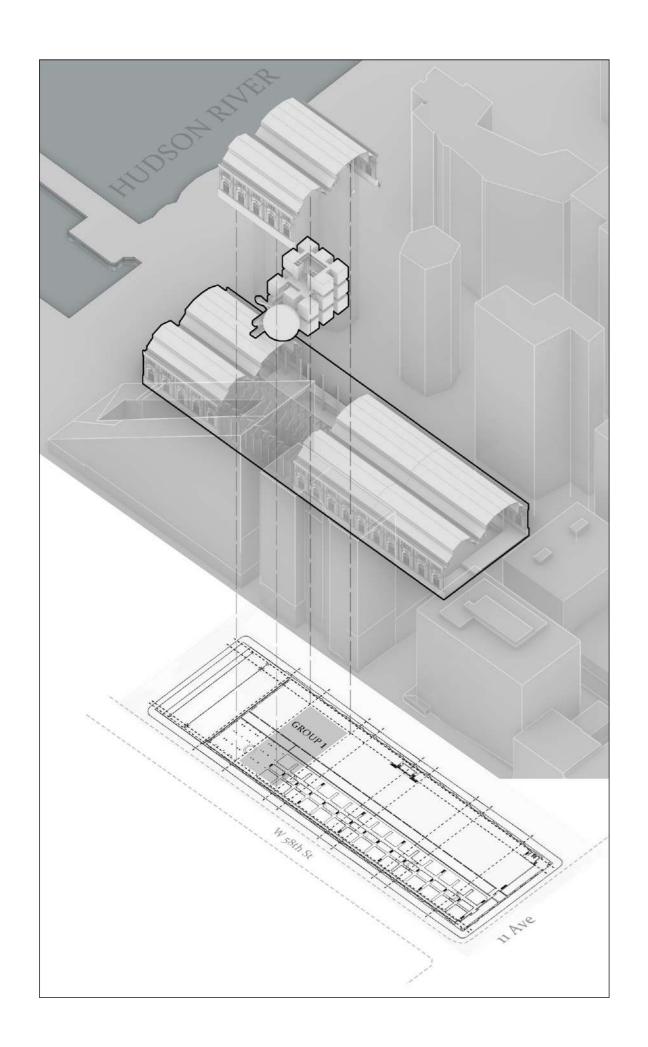


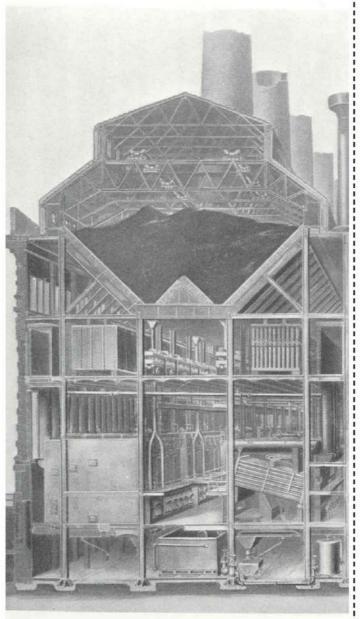
02 [The Expected Unexpected]

[LOCATION] MANHATTAN, NY [ACADEMIC] 2022 FALL, ADV STUDIO [INSTRUCTOR] BERNARD TSCHUMI [COLLABORATOR] NAN WEI, HUAN PENG LI

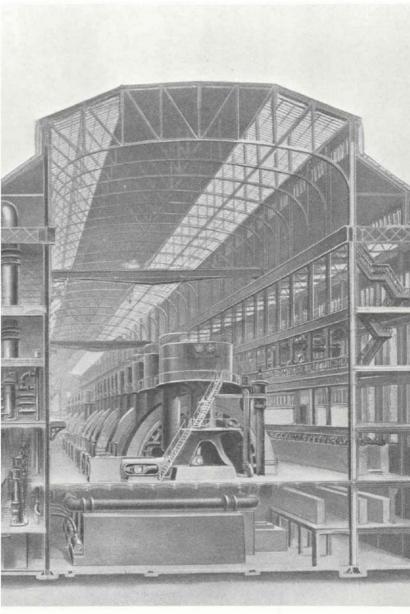








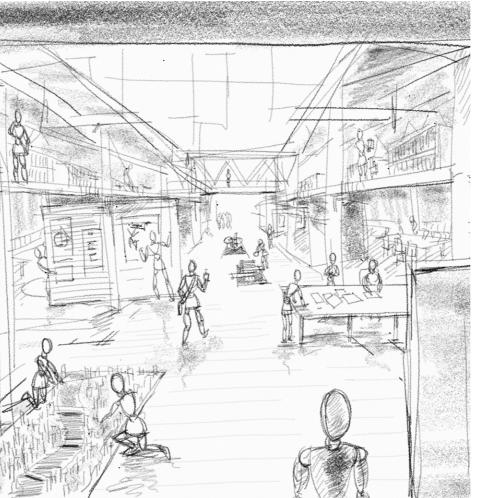
Dense structures (left)

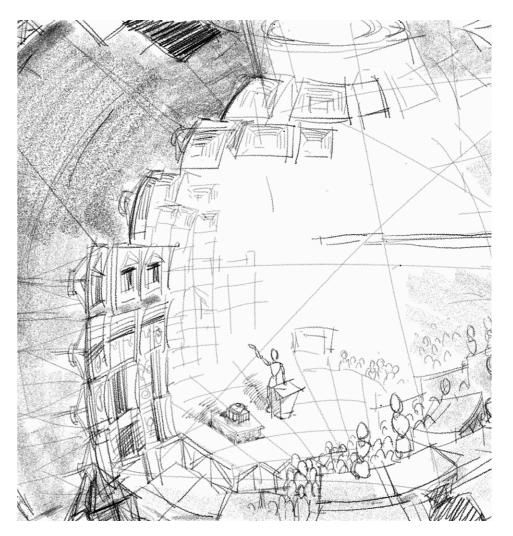


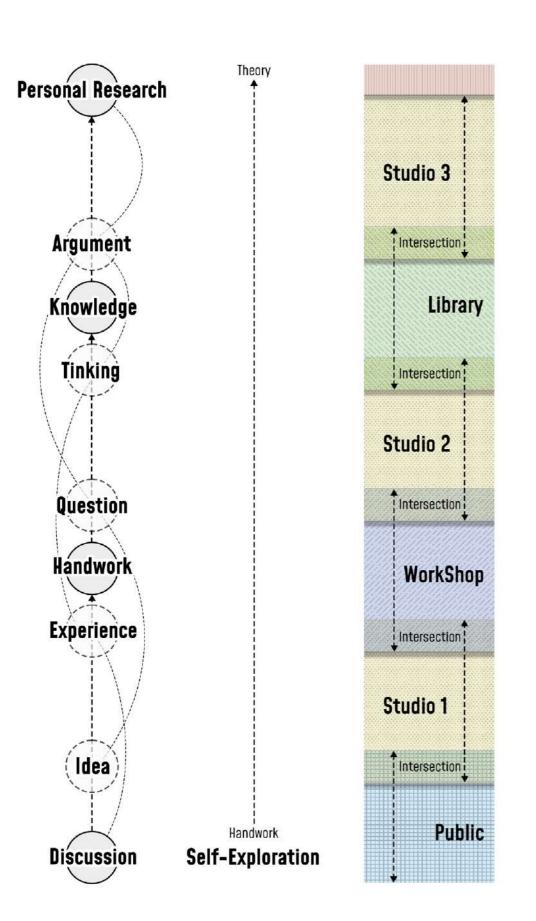
Free zone (right)

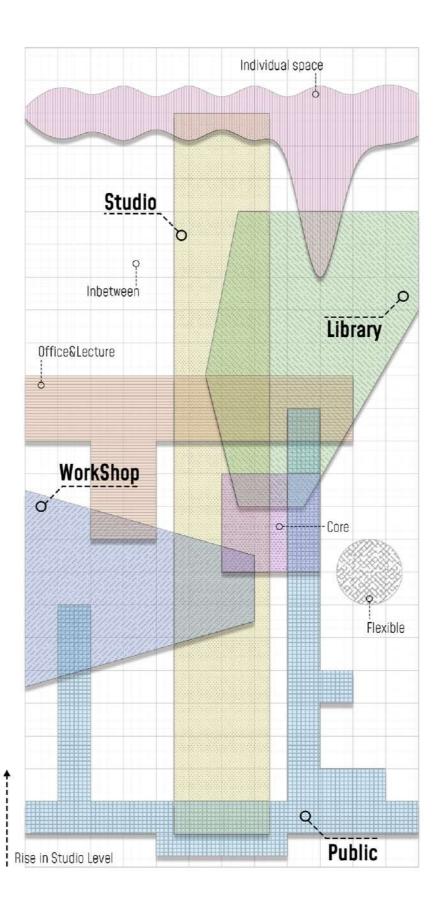


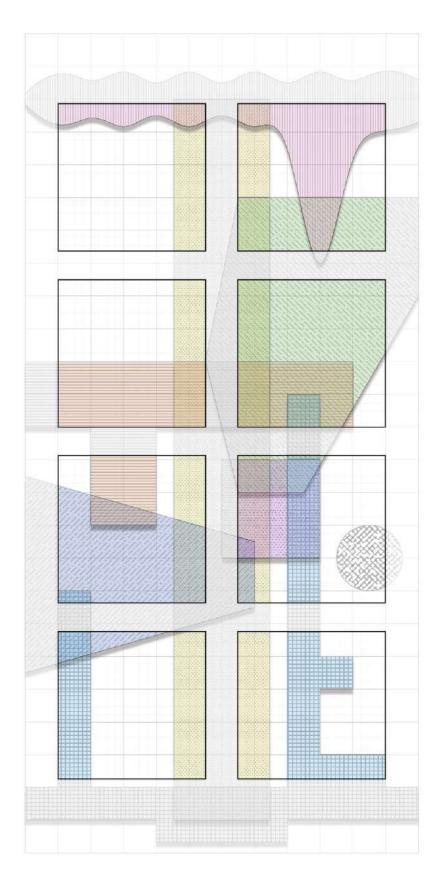


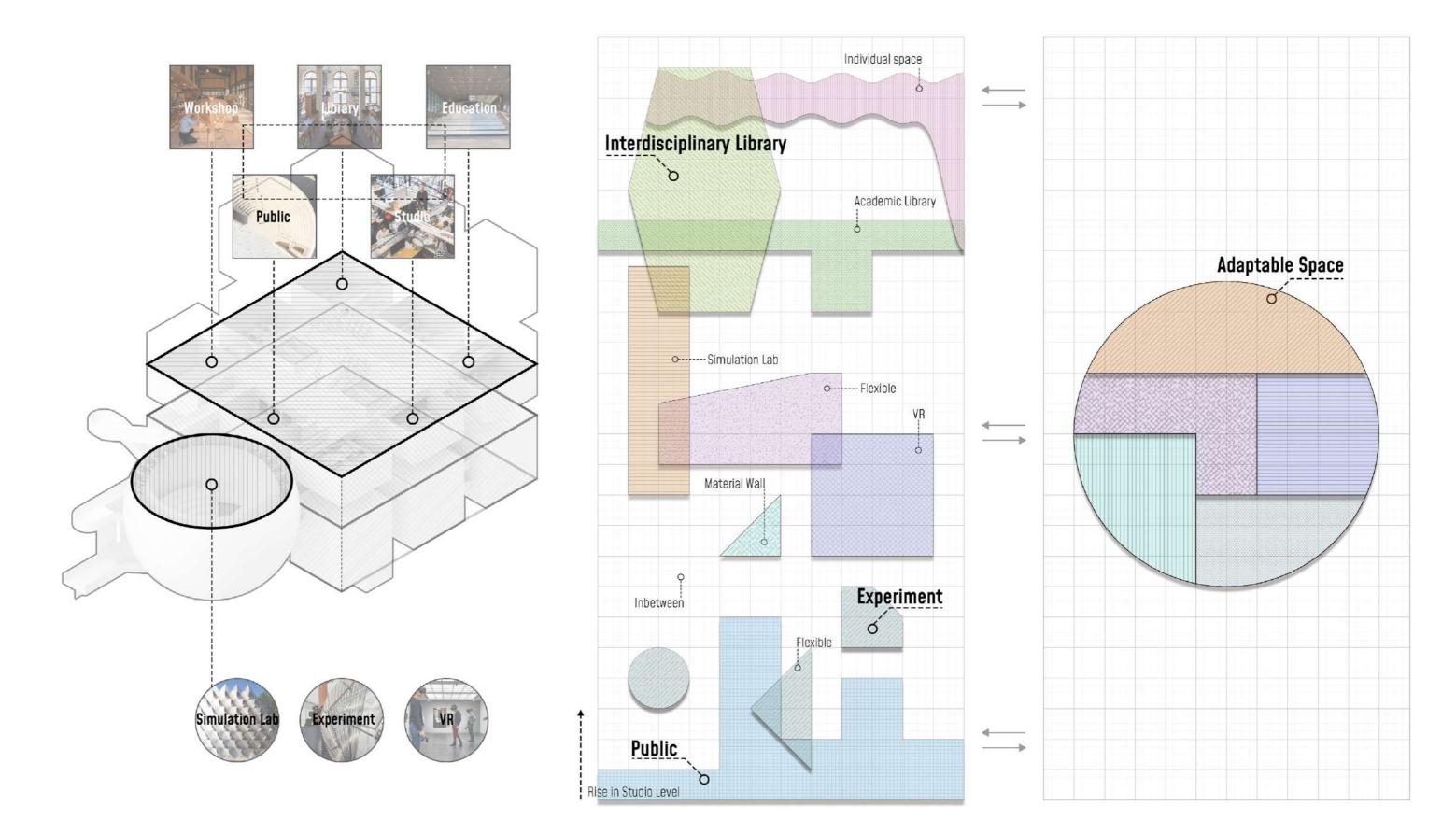


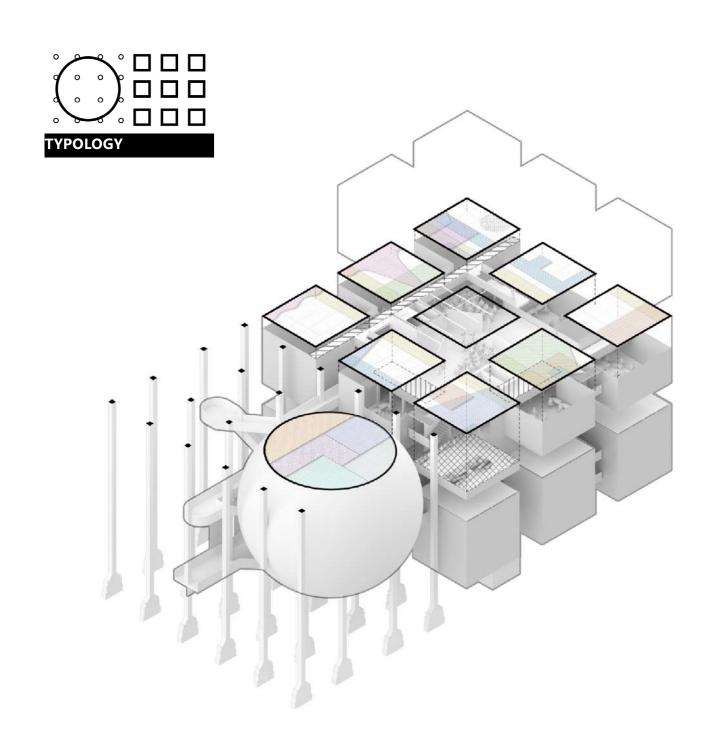


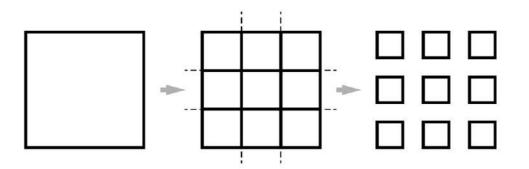


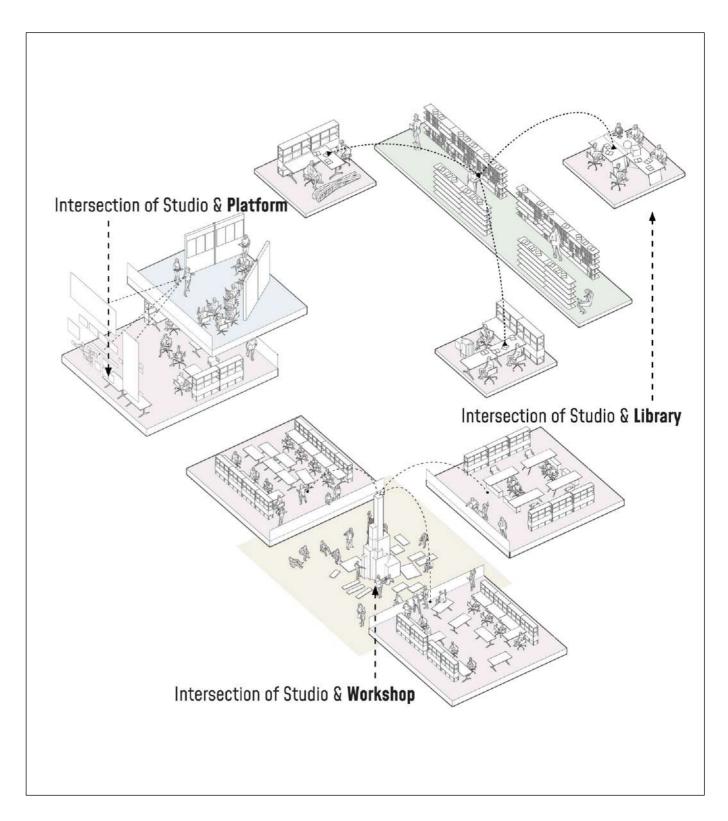


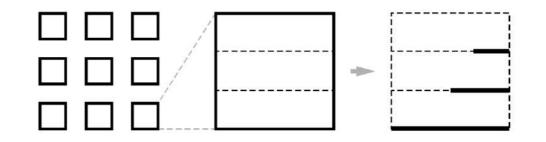


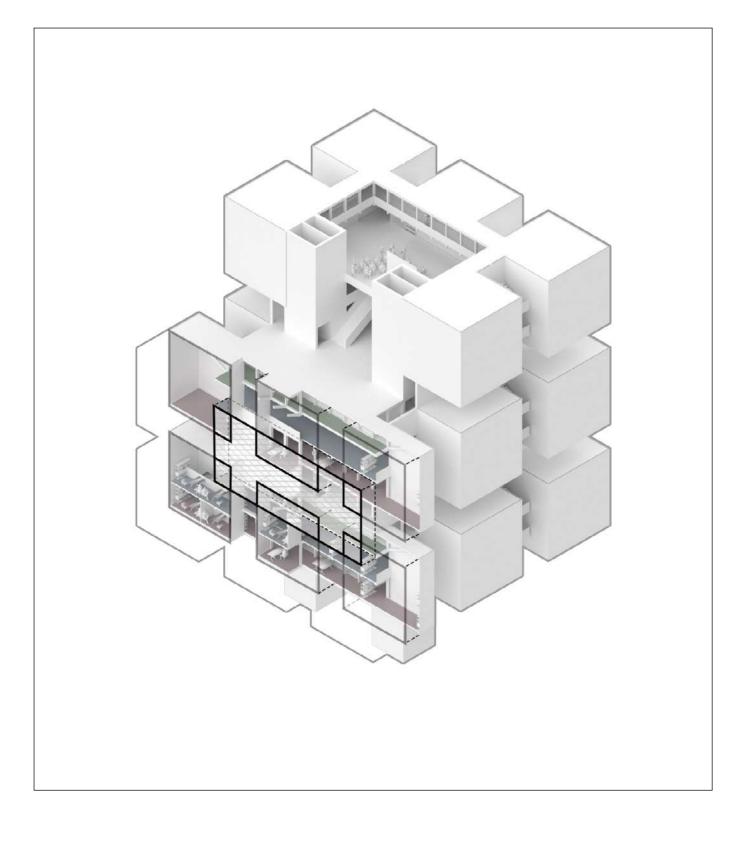


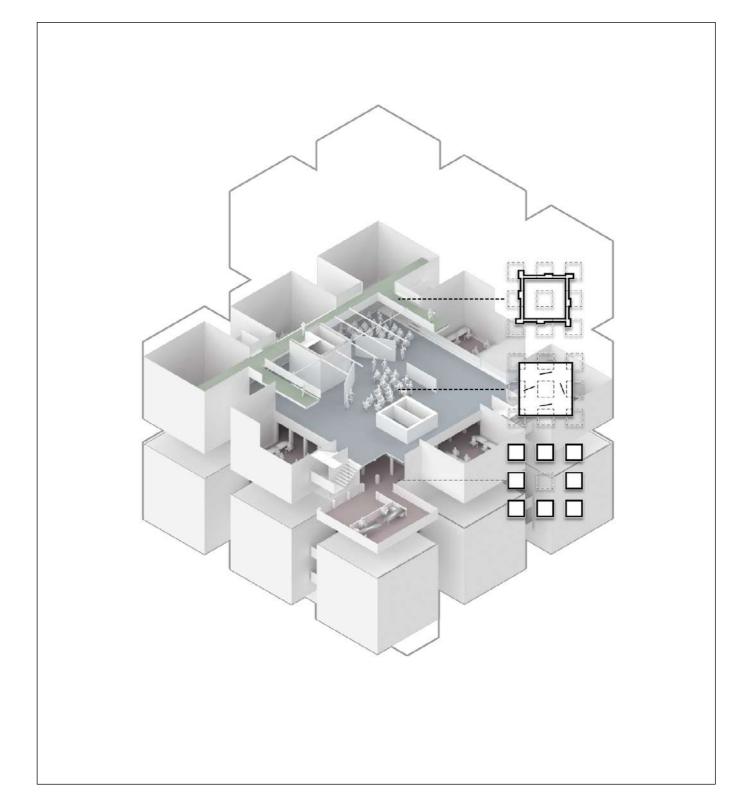


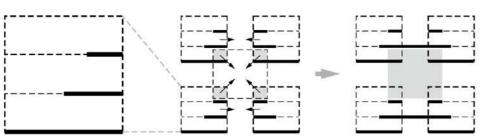


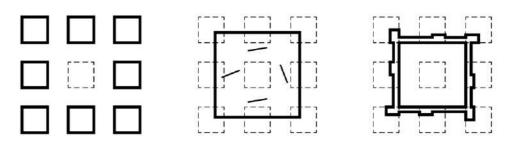


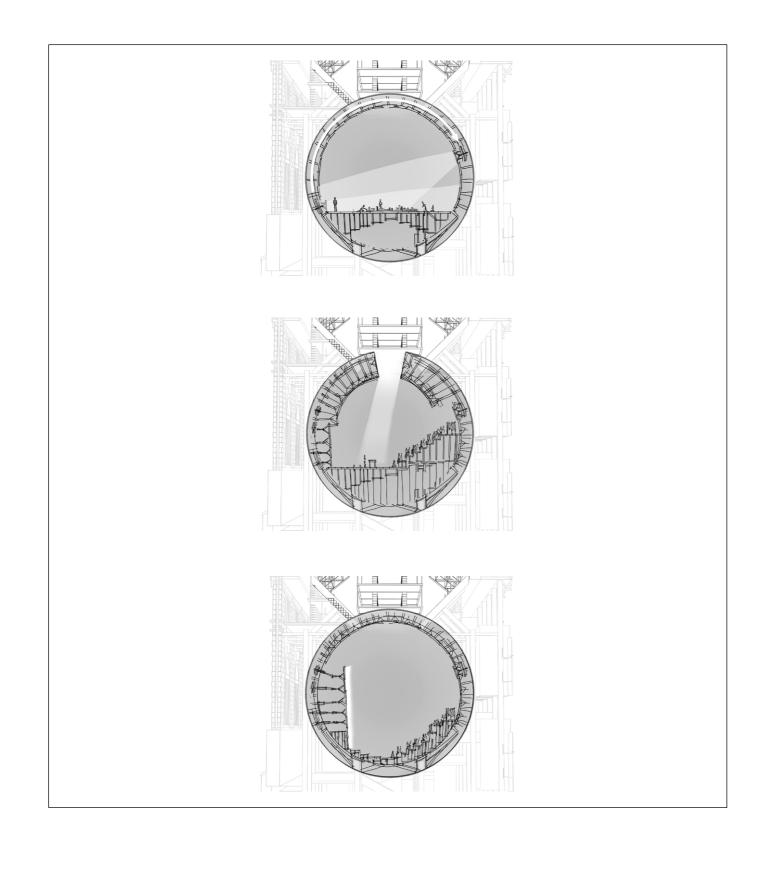


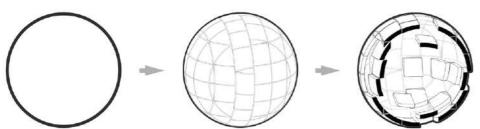


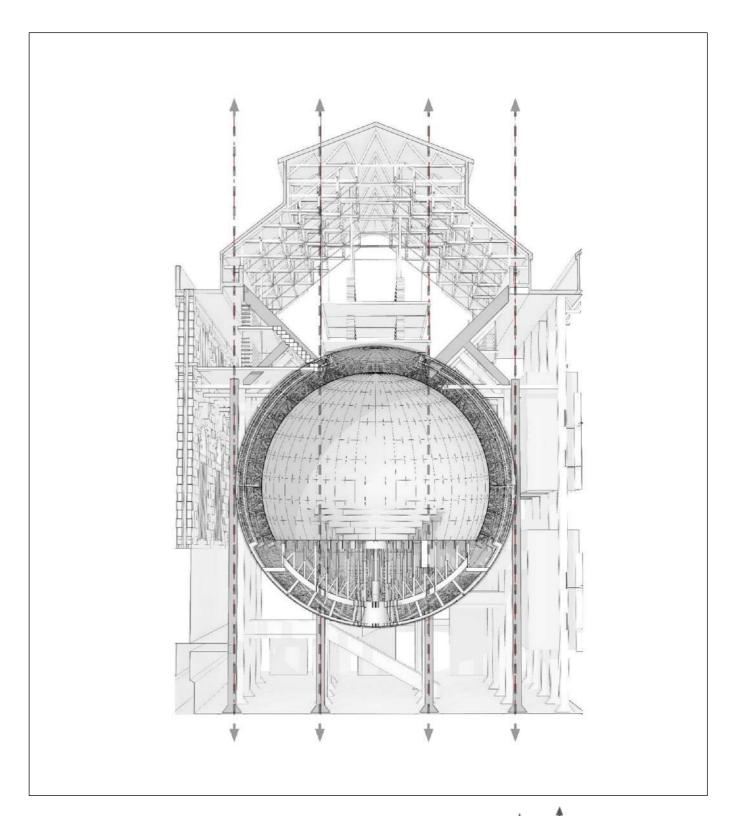


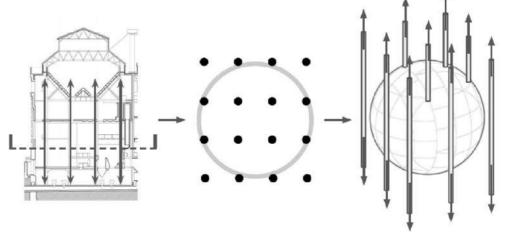






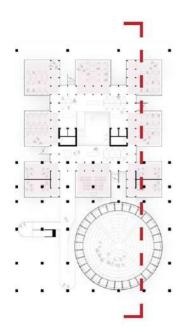


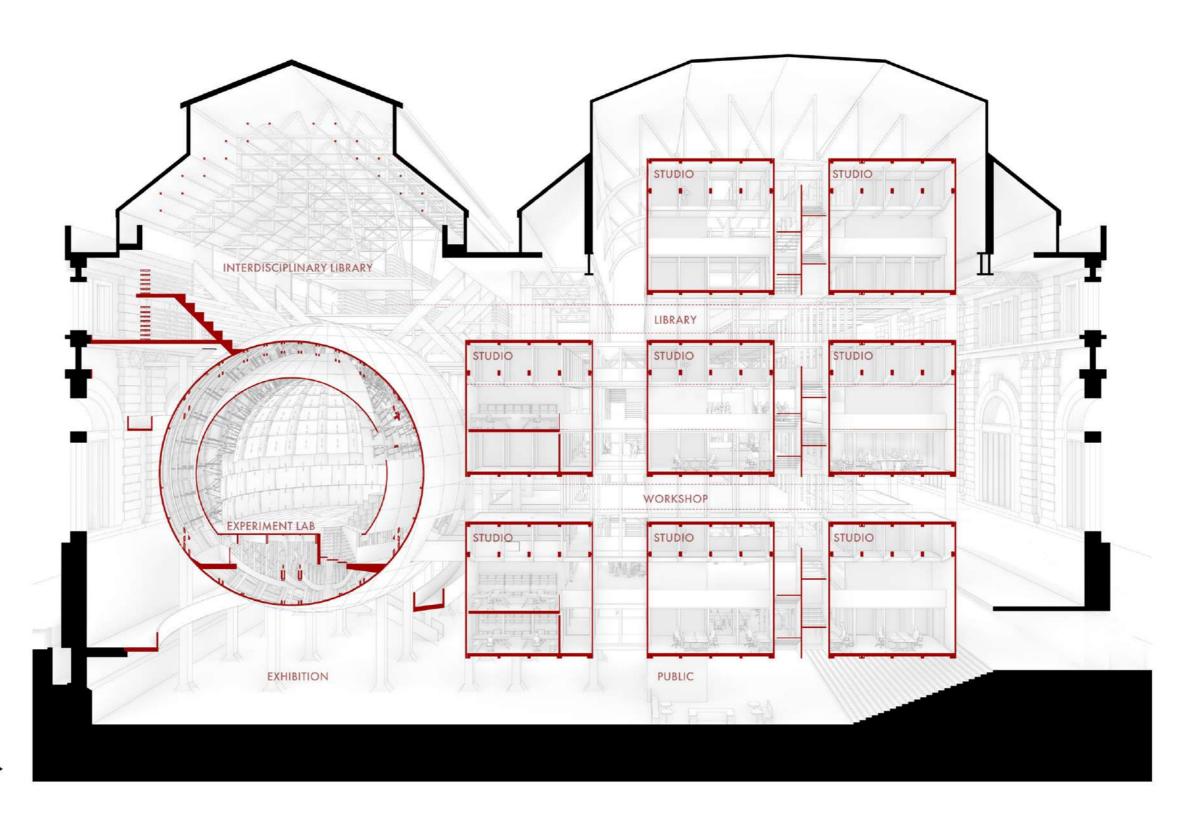


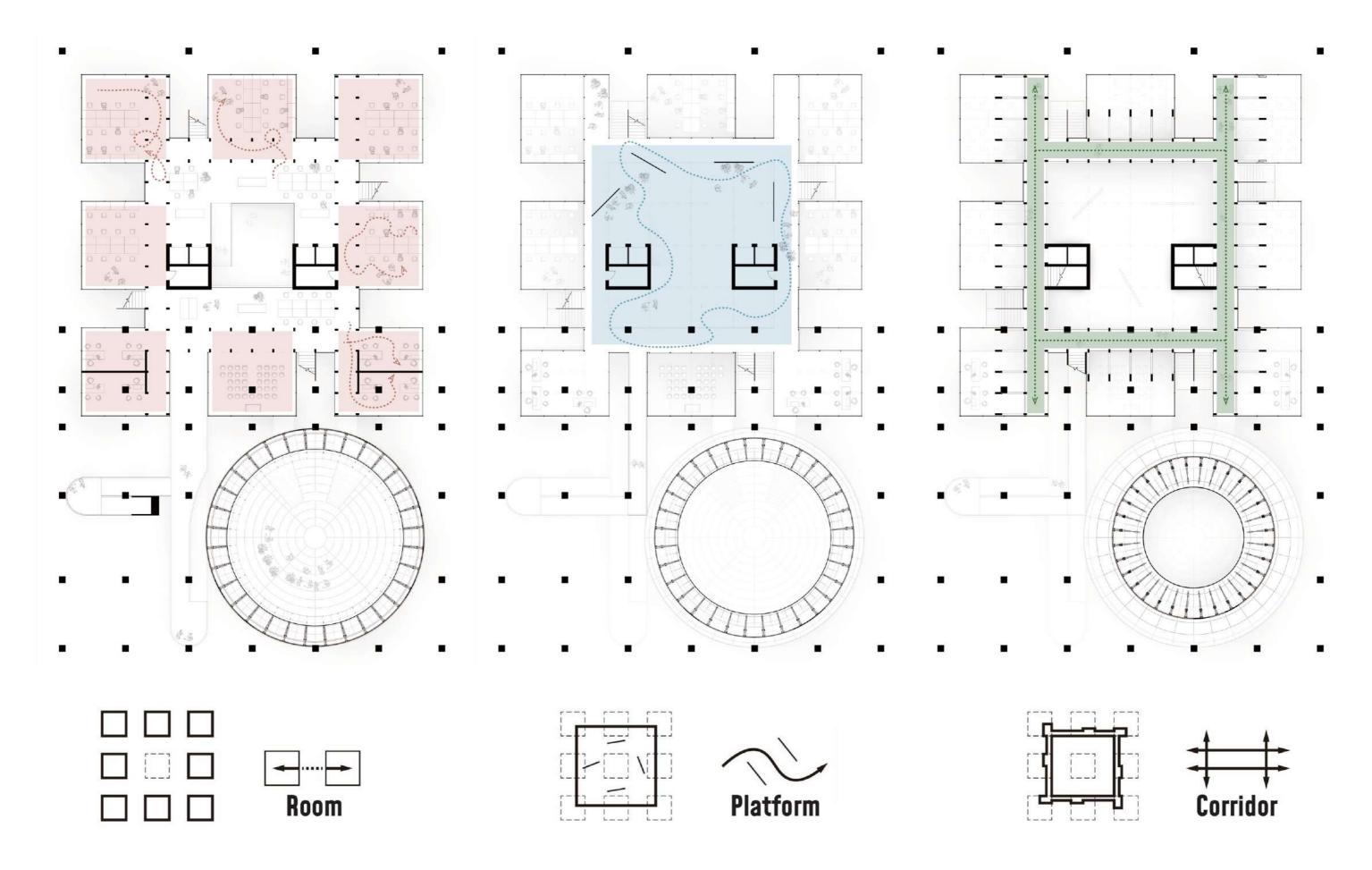


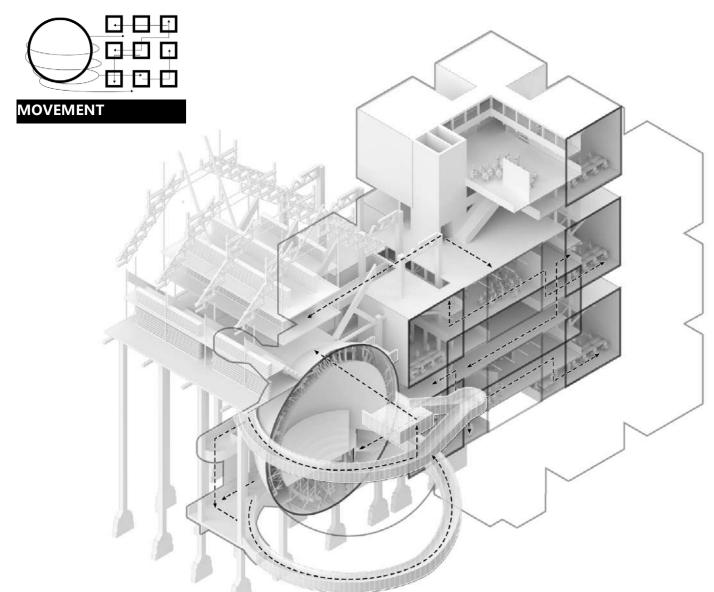
Typology

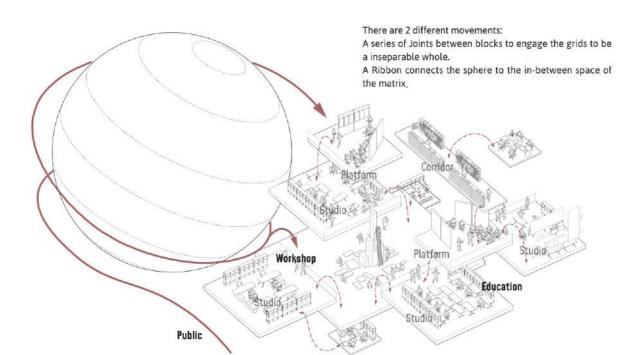
Combining two types of typology will bring infinite possibilities to this project; they cross and fuse.

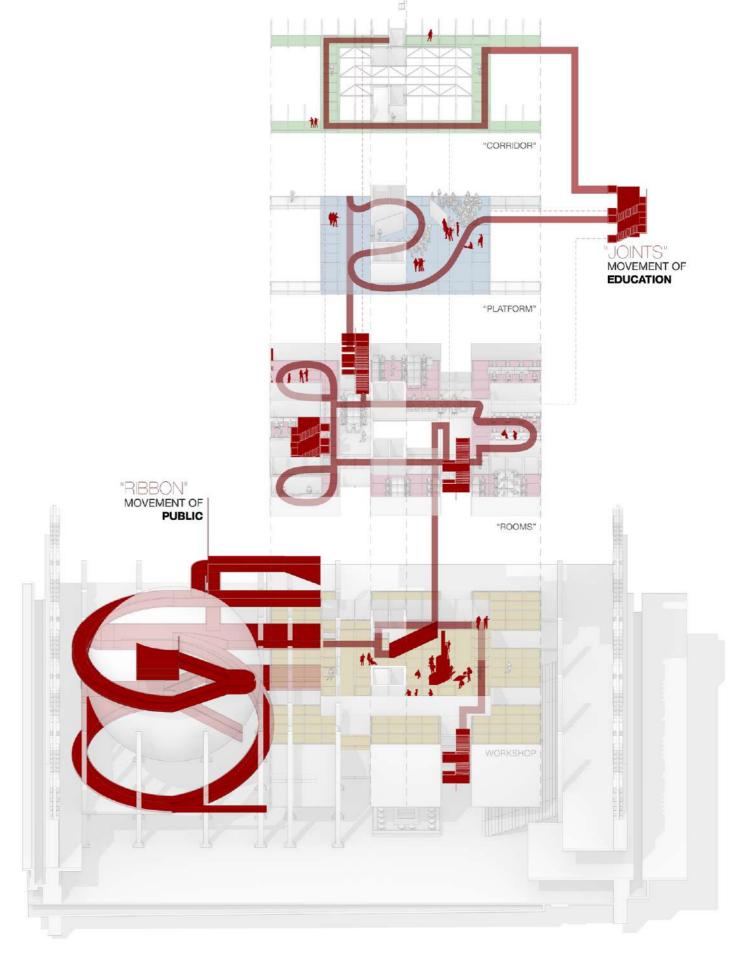






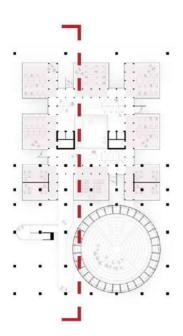


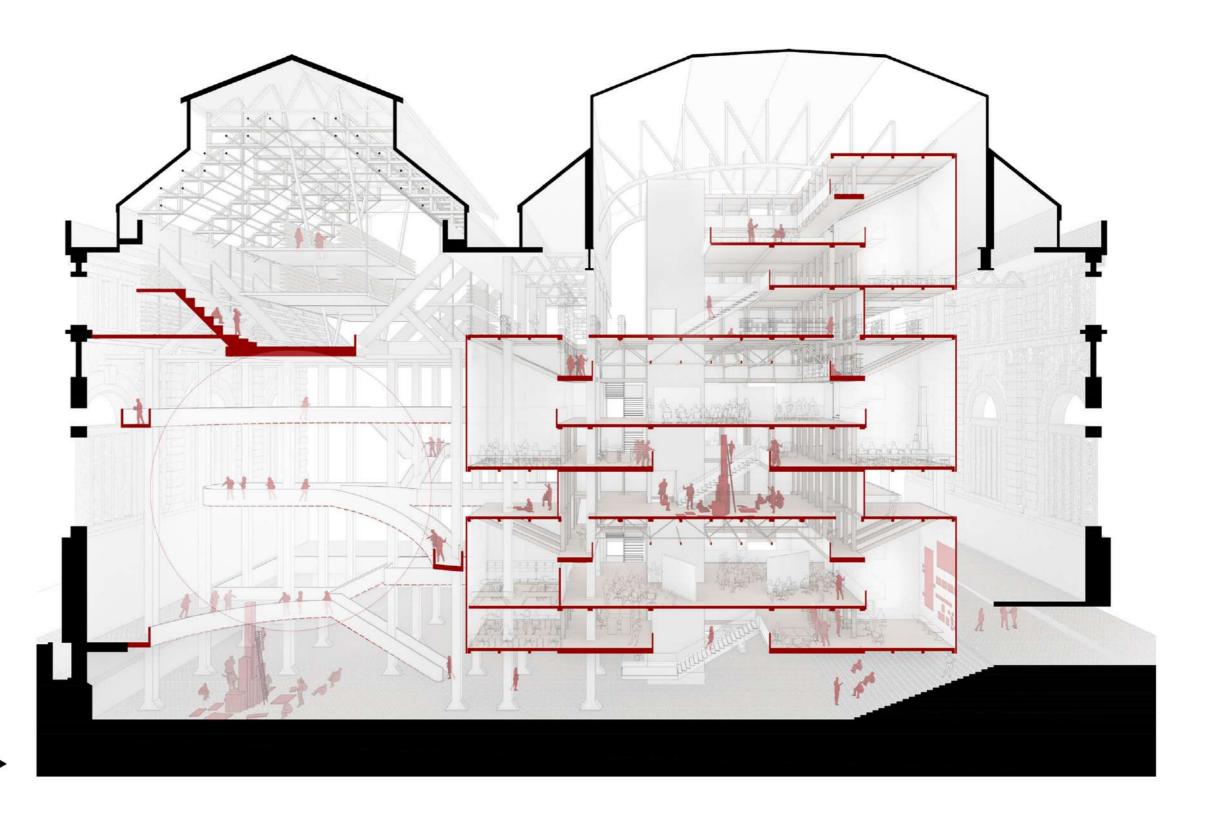


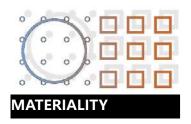


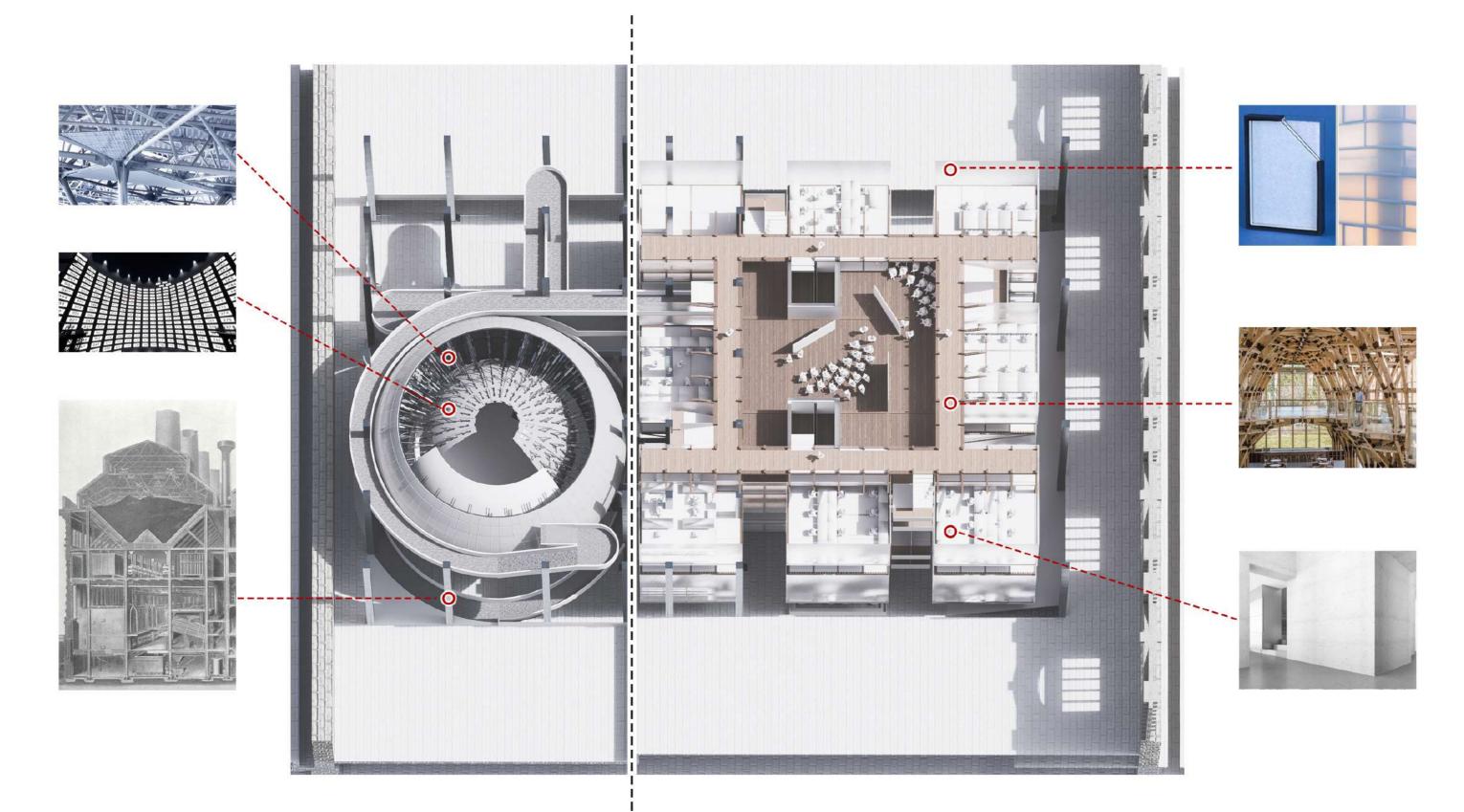
Movement

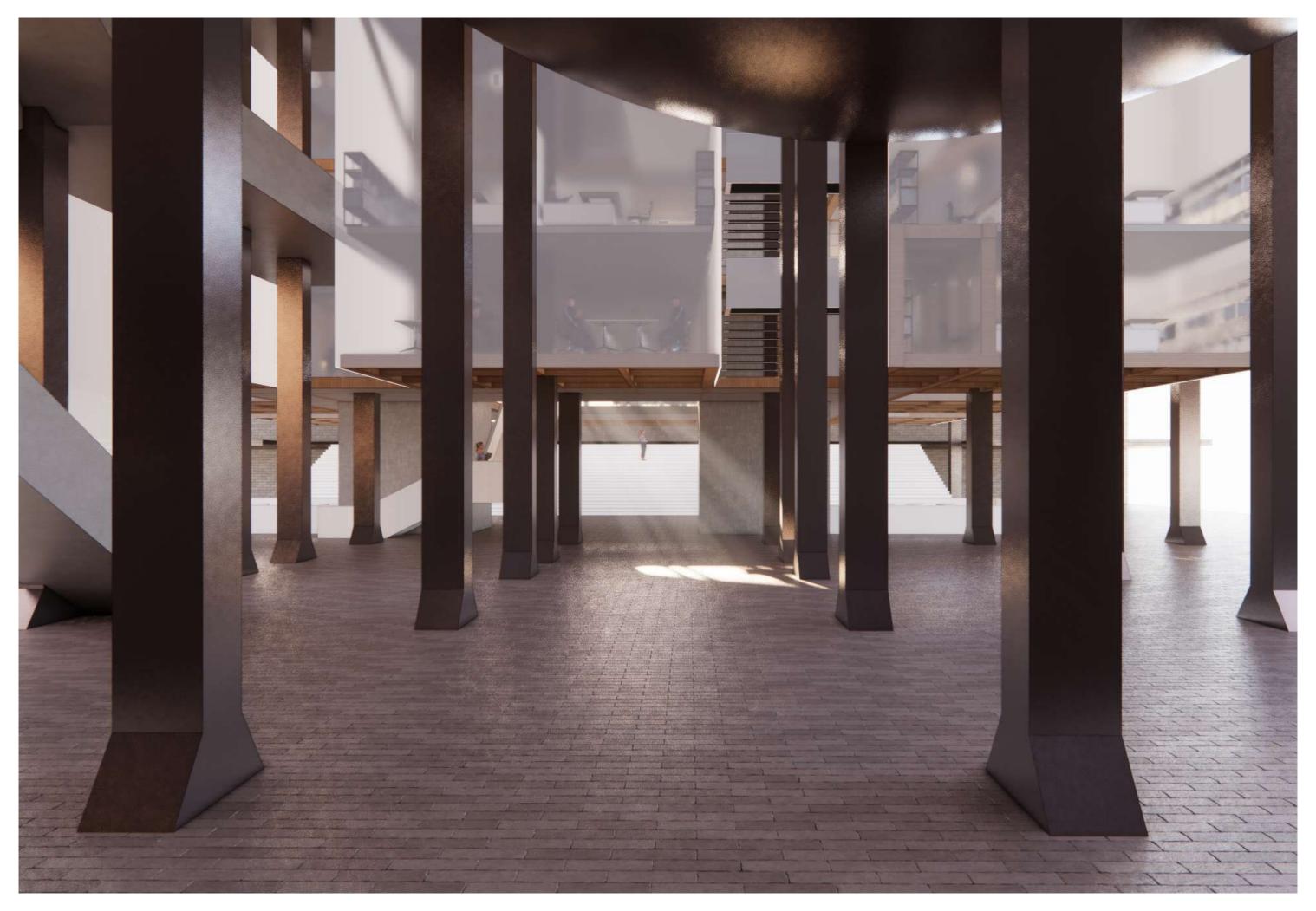
Creating unexpected interactions within expected storylines makes movement complex and fun while still being convenient and flexible.

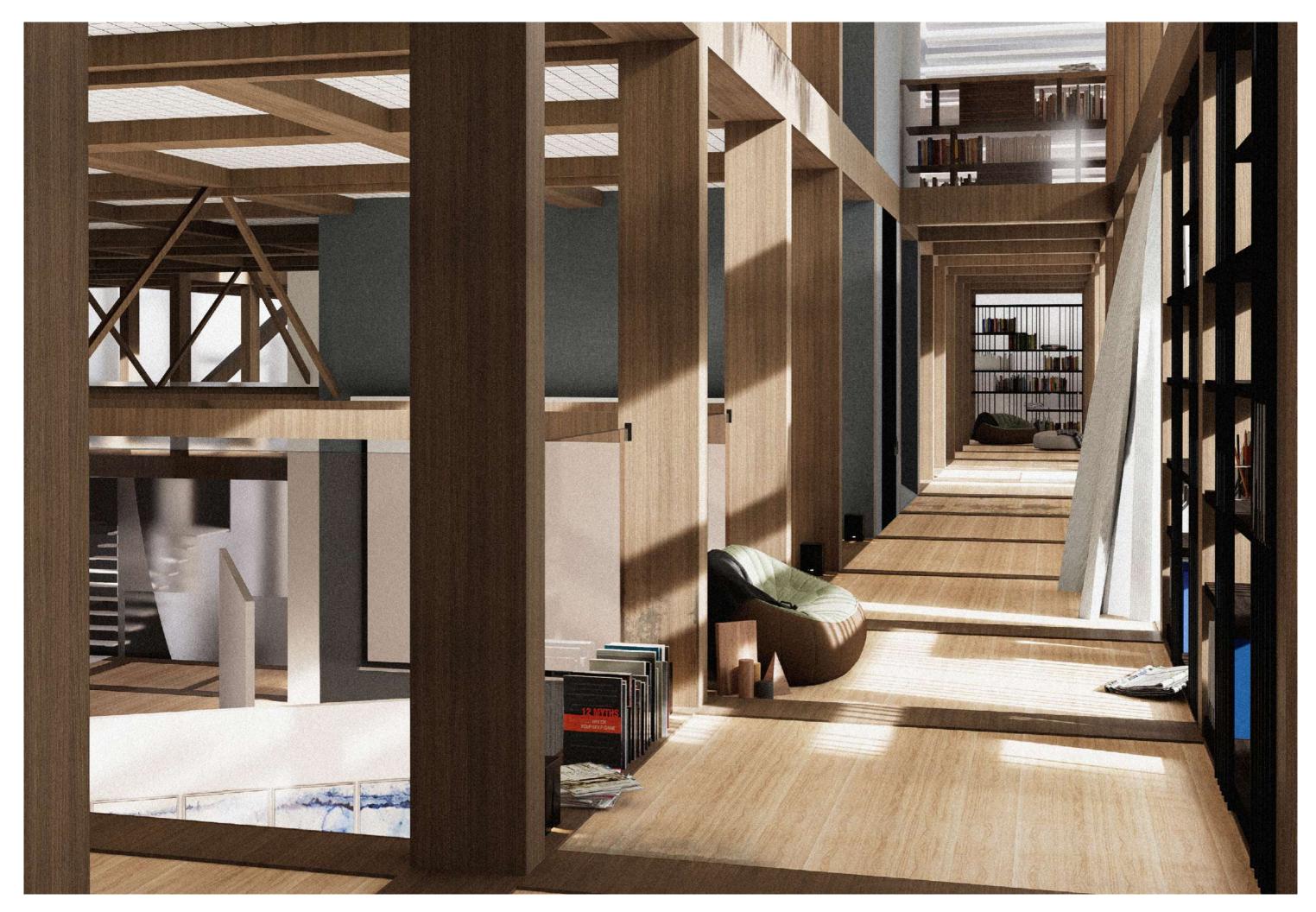




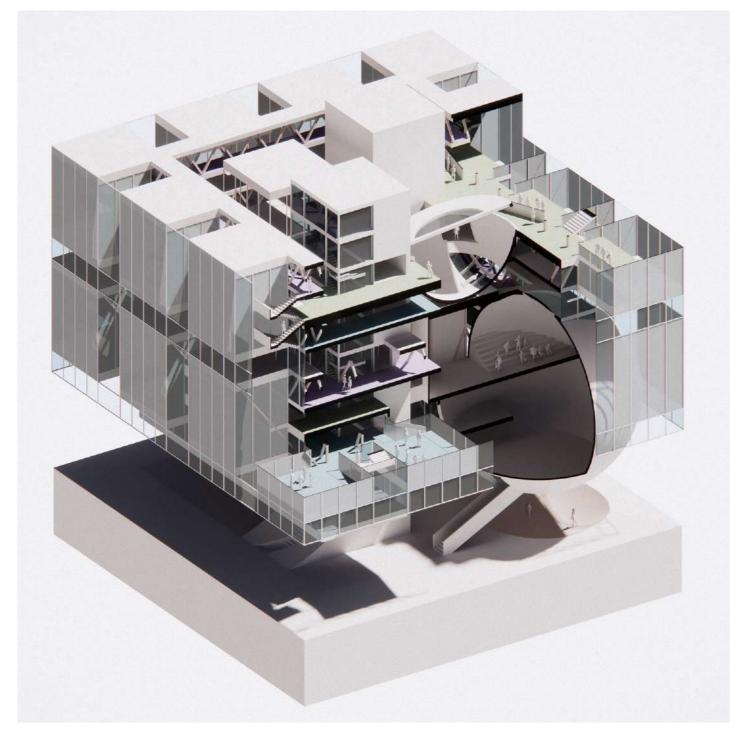


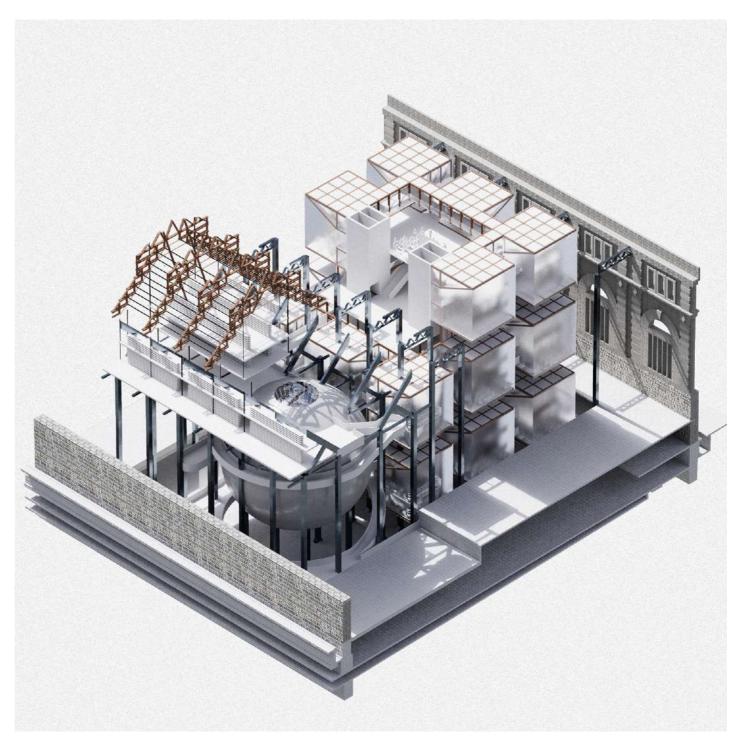






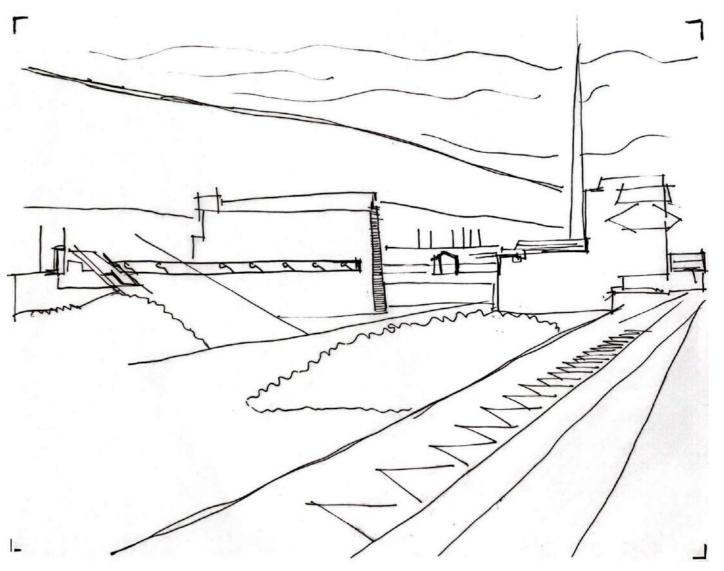
MIDTERM





FINAL





03 [Sheeler, Precisionism and the Technical Sublime]

[LOCATION] MANHATTAN, NY [ACADEMIC] 2022 FALL, METROPOLITAN SUBLIME [INSTRUCTOR] SANDRO MARPILLERO

Introduction: Photography and Painting

The painting, Skyscraper, depicts a corner of New York City in a few neat blocks of color. The painting appears to have been drawn entirely out of thin air with a concept for the contemporary vision. However, when a photograph with an identical perspective is placed alongside the painting for comparison, it becomes clear that the outline of the building in the painting corre-

sponds precisely to the photograph, which means that it is a simplification of the actual scene - as if the photo had been put into Photoshop with a filter of some kind. The author of this painting, Charles Sheeler, was known for his paintings and photographs as an artist active in the 20th century. This would seem to explain his extreme demand for stylistic precision. At a time when photography was well established, Sheeler's quest as a painter must not have been limited to the perfect

reproduction of an objective object. Where did he get the precise color blocks in his paintings? Why were his subjects mostly industrial buildings and cities?



A boat leaves the countryside



Runner falls from tall building



The runner turn back in fear



Runners boarding and leaving



The runner sees himself who has not started the ourney



Runners board the boat to the city



The boat reaches the city, a runner rushes into the city



The scene fades as the tall buildings become barns



he runner bumped into himself



The boat leaves the city



he runner tries to stop himself before he starts



The boat leaves the countryside



The runner is blocked by a man



Runner falls to the ground,



ut didn't stop him from falling



Runners return to the countryside



lis block failed

A turning point in art: New Realism

From the perspective of art history, the cult of technology brought about by industrial development and modernization guided a significant shift in the art of painting. This shift did not occur only in the choice of objects but also in the attitude of creation. Radical artists who predated Sheeler argued that from the creation of art to its development into 19th-century realist painting, art remained in a phase of imitation and repetition of forms found in nature. The worship of the natural world drove primitive people to depict the ripples of rivers in their murals, just as it drove realist painters to delicately depict the splashing mist of Niagara Falls. Both were based on observing "natural forms," and both sought to reproduce them perfectly. The attitude was the same. Only the technique had improved. Art was thus trapped in an infinite process of convergence to the real nature.

Perhaps it was the advent of early photography and the maturation of machinery that, while dissolving the fundamental meaning of reproducing nature, made sensitive artists sense that humanity was moving away from its dependence on nature.

Futurism, by depicting dynamics, attempted to merge the beauty of the human body, which represented the classical, with the beauty of the machine, which represented the modern." It is here that the two worlds have come together." At the same time, Cubism, born by Cézanne, concentrated on the dismantling of natural forms and their reorganization. Futurism and Cubism questioned the repetition of art and thus stood on the threshold of non-objective art. Abstract geometric patterns were used extensively to exclude the objective image's intuitive influence. At the moment of completion of the painting. forms that did not exist were given new life. The artist was given the freedom to manipulate reality. In the first decade of the 20th century, Hillel visited Michael and Sarah Stein, patrons of Pablo Picasso and

Georges Braque, in Paris. The Cubist style of the latter two significantly influenced Sheeler's later work. It also became interested in the urban themes that Italian Futurism was so keen on.

After moving to New York City, there, the streets and buildings of Manhattan became the focus of his work. His love of photography made him accustomed to taking photographs and making sketches before painting. Interestingly, Sheeler drew abstract, clean textures from Cubism and Futurism without disrupting the structure of the objective as they did. For Sheeler, this allowed him to use the structure of abstract painting to represent actual reality. His Precisionism style is also known as Cubist-Realism.

As an example of the "industrial sublime," in the 1930s, Sheeler painted the famous scene at the Ford Motor Company's Rouge River plant from his photographs. At first glance, his 1930 painting American Landscape looks calm, like a traditional idyllic landscape, distinguishing it from Futurism and Cubism, which sought instability and dynamism. However, all the themes in the painting are the result of American technical prowess.

Industrial Pastoral Painting: The Natural Sublime to the Technical Sublime

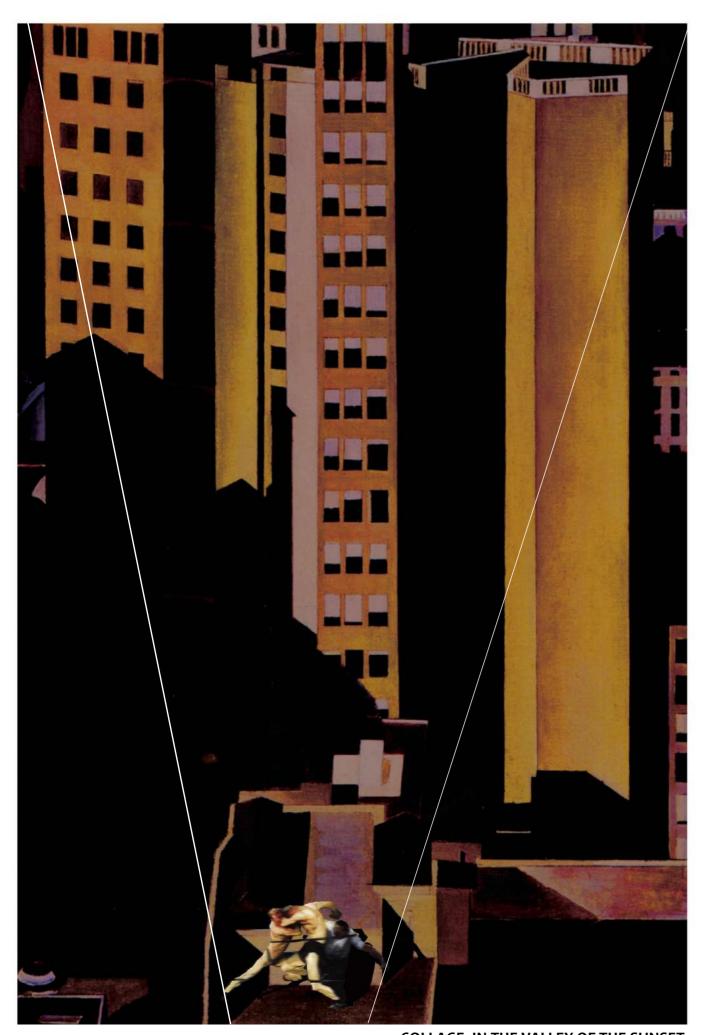
Precisionism painting is a eulogy of social progress by the artists represented by Sheeler, and its aesthetic is intensely American. The calm, traditional idyllic landscape experience sought by his paintings is in line with the appreciation of the natural sublime in the United States during the 18th and 19th centuries. This aesthetic appreciation of the natural landscape carried a different religious, gender, and nationalistic meaning in the United States than in Europe, thus establishing the American natural sublime.

In the 1st century, in an anonymous Roman text, "On the Sublime," the author argues that the sublime is "the echo of a great mind" and

uses the ocean, the Danube, and the Rhine as examples. This is the earliest recognized "sublime" law. Later, in the history of the development of the "sublime" standard, Kant made a significant mark; he said, "sublime objects can certainly cause fear, but the sense of sublime is not, after all, from fear. We call a powerful object sublime, not because it is terrible, but because it raises our spiritual power beyond the usual scale. The sublime does not reside in any object in nature but in our hearts. Thus, the practice of human materiality is the trustworthy source of the sublime. The practice of the sublime originates in observing nature and, thus, the feeling that nature is excellent. As with the transference of art, the observation of nature is weakened as people's practice shifts to violent creation and industrial production.

The new technical sublime was likewise a response of the mind. For example, in his painting Golden Gate, Sheeler represents the image he had in mind of the Golden Gate. Rather than choosing a panoramic composition to represent the majesty of the Golden Gate Bridge, Sheeler chose to depict "what the eye can see" from the perspective of a viewer on the Golden Gate Bridge, where his vision is composed of reinforced concrete and a series of elements that make up the structure of the bridge. This composition's form and content align with the aesthetic characteristics of the technological sublime - to reveal the beauty of the whole from a partial perspective. This artistic aesthetic phenomenon reflects the psychological recognition of machines' efficient production and operation. Moreover, Sheeler's aesthetic ultimately falls on the experience of the space constructed by these static mechanical creations and buildings.

For most of the sublime, the viewer always translates the volume of space into energy and prowess. For example, with the advent of the metropolis, the space defined by towering skyscrapers can be translated into a sense of the sublime. However, the "sublime" is also a sense of people' s power, an ex-



COLLAGE: IN THE VALLEY OF THE SUNSET

pansion of the power of their own will. In Nye's book, The Electric Cityscape, this sense of the sublime is the awe and respect generated by the technology of the "human collective," including oneself. It can provide a sense of superior selfworth. The light-drenched, gigantic city prompts them to conceive something more powerful and massive than their senses can grasp. It is, in another phrase, a "romance of numbers." In this context, the "sublime" of the individual and the cluster is linked through the bridge of technology. This feature makes the difference between the technical sublime and the sublime of the past.

Ultimately, it can be learned that the Precisionism represented by Sheeler is influenced by Futurism and Cubism, thus focusing on the abstract processing of the real world. The precision and simplicity of its product represent the spirit of the American technical sublime. However, the aesthetic tendency toward static beauty is correlated to the American aesthetic tradition of the natural sublime.

Bibliography

1.McMullen, Brianna. "Precisionism: Art in the Industrial Age." Art Education. National Art Education Association, 1916 Association Drive, Reston, VA 20191. Tel: 703-860-8000; Fax: 703-860-2960; Web site: http://www.NAEA-Reston.org., February 28, 2006. https://eric.ed.gov/?id=EJ740328.

The Age of the 'Cult of the Machine' in America_Charles Sheeler." Art & Design, 2018.
 Nye, David E. American Technological Sublime. MIT Press, 1994.

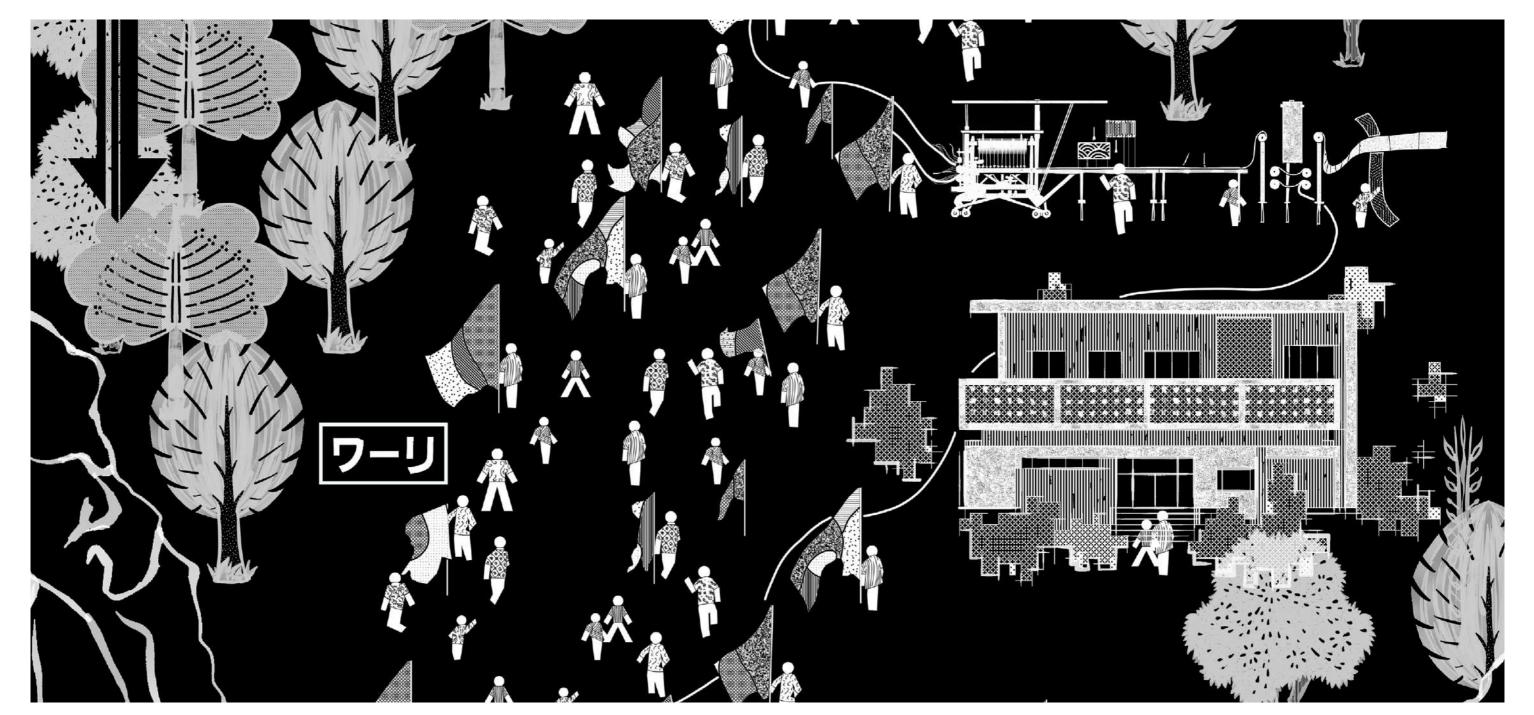


The last lament

Anagha

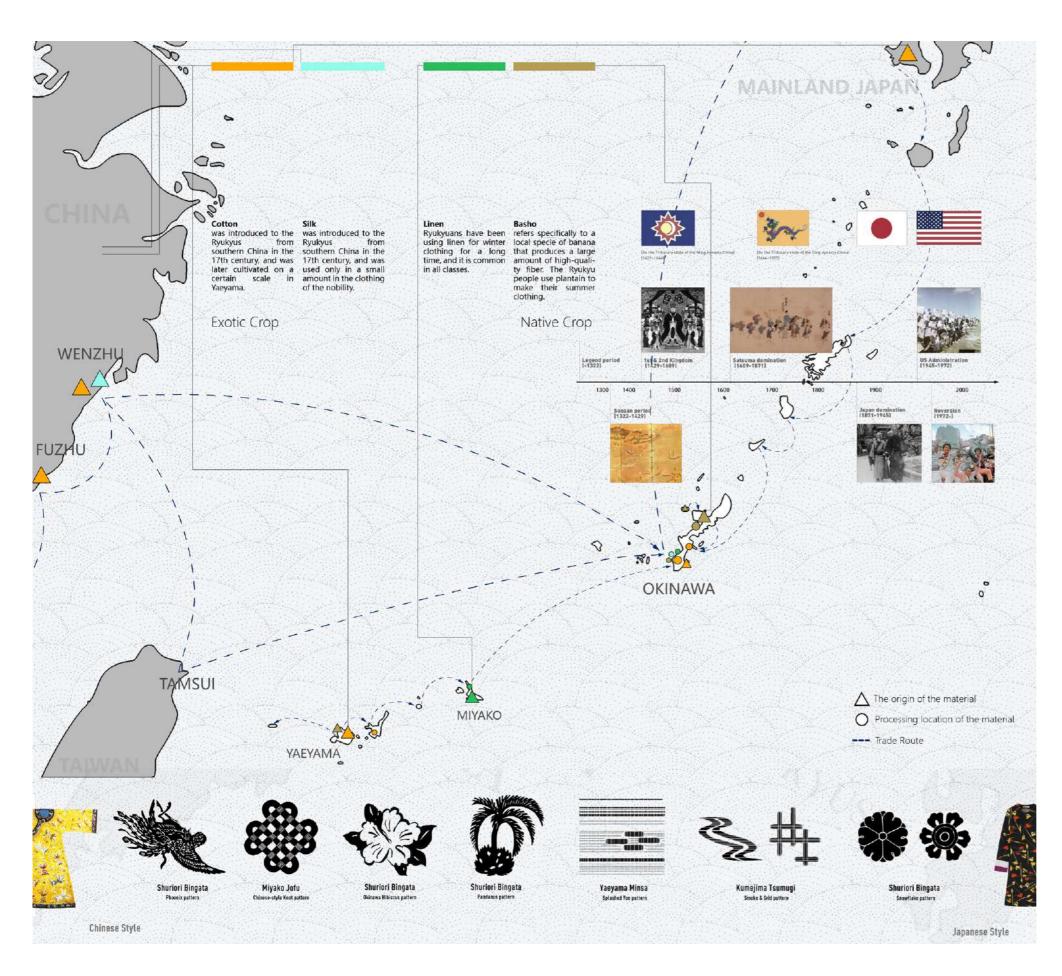


COLLAGE: SAILING



04 [BECOME A FESTA: REWEAVING RYUKYU]

QUE ZHANG | PORTFOLIO



Becoming a Festa: Reweaving Ryukyu

This project is an architectural deconstruction and expansion of Ryusou, the traditional Ryukyu costume, under a series of issues related to land resources and cultural heritage, and thus conceives a parade, festival, and carnival that reweaves traditional Ryukyuan culture and identity.

Ryusou is a reliable historical document, and the richness of the exotic fibers and motif archetypes used in Ryusou allude to the trajectory of the archipelago's culture as it continues to integrate other cultures and develop. In an architectural interpretation of Ryusou's new vision: yarns are fibers and the land on which plants grow. The pattern is the island of culture and the ocean currents of arrival. Weaving then becomes the process of bringing everything into the same narrative.

Ryusou's narrative touches on the severe issues of the Ryukyu community on the island: The tough fibers used to make a particular type of Ryusou come from the tide-release forests that have fought land erosion for centuries. On the other hand, Ryusou has also been used as a basis for identifying and discriminating against Ryukyuans by native Japanese communities in the past. In the past 20 years, protests against the U.S. military bases in Okinawa have become a breakthrough for Ryukyuans in their quest for autonomy and identity. Because the presence of the base is not only an occupation of Okinawa's precious land resources but also reveals the Japanese government's continued disregard for Ryukyuans civil rights issues.

Faced with such a complex situation, Ryusou is to serve not only as a record of the historical coming of the Ryukyu people but also as a banner of celebration that can shape the cultural confidence of future Ryukyu people. A friendly cultural procession that lasts several days and passes through several stations with Ryusou as the yarn was conceived. Moreover, in the process, architecture challenges its ability to interpret and construct relationships beyond the material. The festival will be a journey to reweave the narratives above scattered in different dimensions.

