YILIN HUANG ARCHITECTURE PORTFOLIO

SPECULATING: HEDGING ARCHITECTURES, IMAGES, AND VLUES

Conceptual fieldguide illustration

Advisor: Corneel Cannaerts, Michiel Helbig Group work Summer, 2023 Studio Project

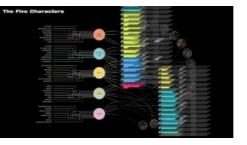
Architecture has always been deeply linked to values - be it moral, religious, social, political,environmental, symbolic, military, commercial, economic, monetary- the recent impact odigital technologies has led to novel forms of speculation. While in highbrow architecturaculture claims strive for values far removed from commercial speculation, architectural practicethrives on monetary investment for design and construction. Architecture is a speculative discipline out of necessity, since the relative slowness of architectural production, architecture design is projective, anticipating potential build futures and their values. Images play an increasing role in architecture through the recent proliferation of digital technologies. We can see this internally in the design tools and media architects use to produce images, as well as externally in the ubiquitous spread of social media, blogs, smartphones... through which architecture is experienced and disseminated.

This field guide looks into how architecture is complicit in processes of speculation and how digitalisation of architectural practice and its relationship with a general public is mediated through images. We look into architectural competitions, as an investment and speculation onpotential future architectural stardom, and how this desire is exploited; how project developers use architectural imaging as form of branding fuelling real estate speculation; how architecture offices and practices actively produce images and direct their online brand; how architects can gain clout by learning from social media and influencers, by embracing contemporary ways osharing images and interacting with viewers.



















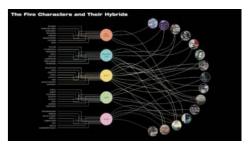




















SPECULATION

Hedging Architectures, Images, and Values

Jinyue Han, Yilin Huang, Pallavi Jain FieldStation2023_Architecture of Compression



Real Estate

As a participant in the speculation ecosystem, "real estate" may be the most obvious representation of speculating behavior for that's one of the principles of how it works. The general business model of real estate enterprises is to take out a loan from a bank to acquire land, use the funds to develop the property, and sell the property and return the funds. One part of the funds is used to repay the bank debt while the other part of remain in the next project. In short, it is a "raise debt - buy land - sell houses - funds back - one part used for debt repayment, the other part for continued investment" cycle round trip.

This mode of operation is destined to be a highly leveraged, high financing cost way of working. Real estate companies want to reduce capital costs can only shorten the operating cycle as much as possible, including development, construction, sales and other aspects. Often these segments will be compressed together in time, with the sales segment running concurrently with or even ahead of the construction segment.

In other words, real estate developers need to portray a future to consumers that is not yet built, and it must be appealing enough to attract available working capital. Whether through various advertising for enhancing their own image, or hiring architects or internet celebrities to design or promote the property, it is a kind of insurance for the future of the building, that is, a way of speculation of architecture indeed.

Wrong prognosis such as seriously deviated project market positioning can lead to serious consequences. In addition, factors such as design mistakes, bad sales channels, wrong timing of entering the market, poor publicity and promotion, and weak integrity of developers can all be the reasons for failure of real estate development.

The traditional sales model changed when real estate was combined with the emerging online promotional model. Does the design of a famous architect and the promotion of a network celebrity with traffic bring an essential change to the value of the building or the real estate itself?



Clout

diversion

Clout means "pull" or "influence" as one of the explanations in the dictionary, and in the context of the field guide it means content creators or internet celebrities posting images and videos through the internet. If speaking of someone having clout, it usually means that they communicate a sense of influence, and possess an ability of changing one's mind.

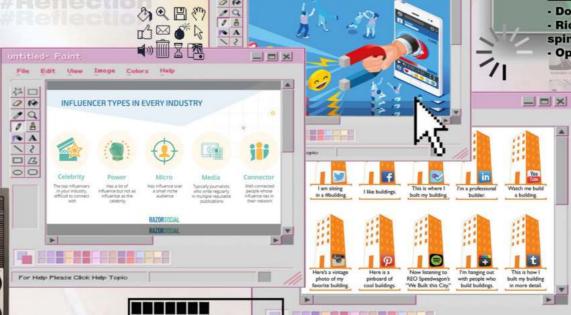
In 2010, Instagram launched and gave users something unique – a platform based on images. The earliest influencers began to use Instagram for more than sharing photos of their kids or pet, they saw an opportunity to connect with followers and share product recommendations. Once paid advertisements were launched, brands were able to connect with influencers across the platform and sell products quickly and easily by leveraging the reach of the influencer.

One of the popular Internet Celebrity Economies is based on riding their fames to establish a new type of money. After they become famous, they will start making profit of the fame by various ways. First, live streaming or opening online stores to bring in goods can achieving plenty of sales through fame effects. The earliest product to bring live is beauty products, because beauty products gross profit can easily reach 80%-90%, the marketing rate of 30%-40%. That is to say, the beauty class products make more money with goods.

Moreover, the weblebrity can earn promotion fees through graphic content implantation, video advertising patch, information flow promotion, etc. to their followers. They cooperate with businesses to endorse their products, which mainly relies on the number of fans and influence ability. This promotional behavior gradually evolved from single products to food, dressing styles, physical stores and even attractions. Other ways of live streaming rewards, paid knowledge, ip licensing are also ways of making profit.

However, "Internet Celebrity" has become a derogatory term. It often represents bad quality, low cost, wrong products and other problems. There are posts of avoiding internet celebrity stores spots, which reflects the disgust for these phenomenons.

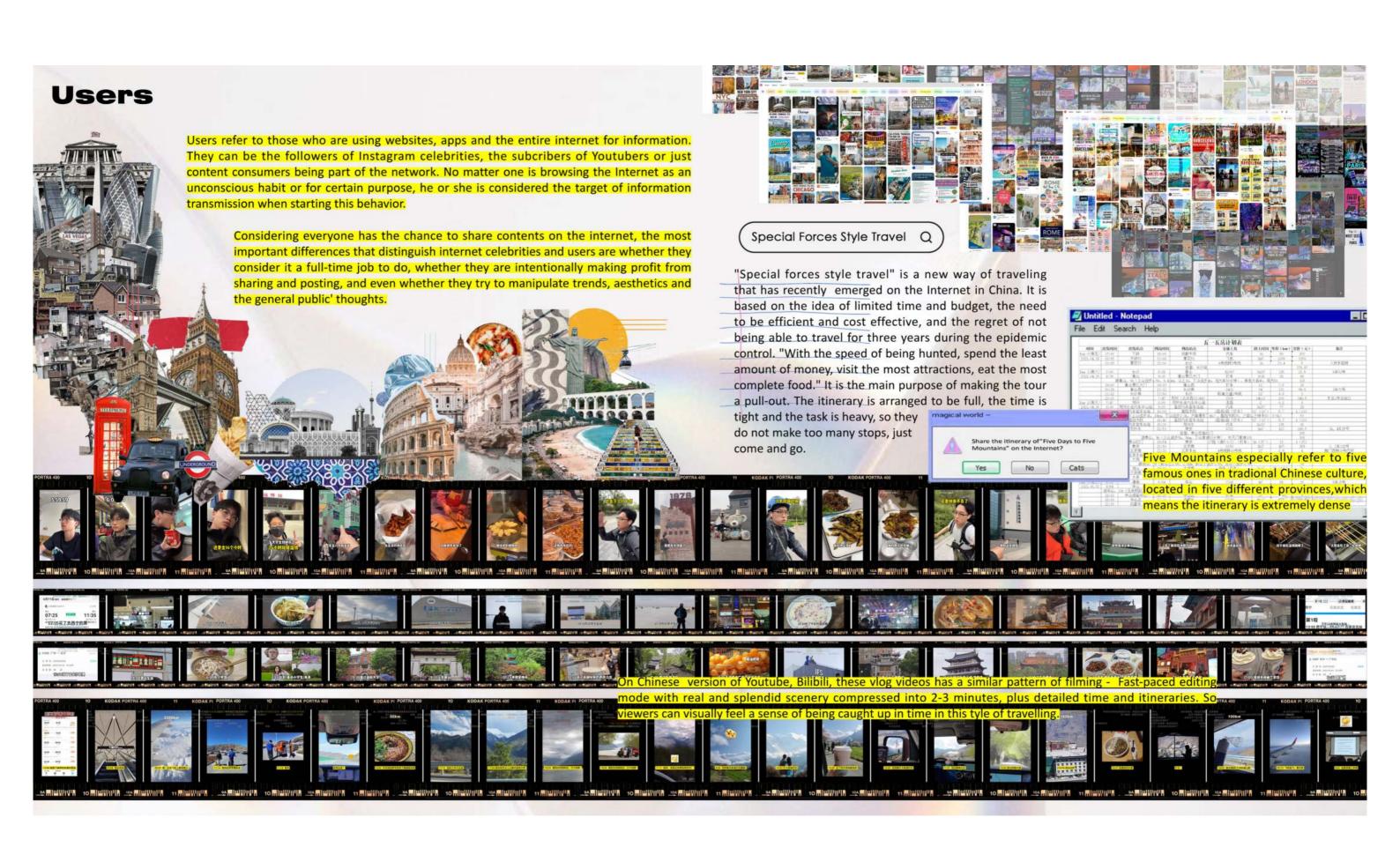
The reasons may be some of the influencers don't want to maintain their reputations, instead just want to cash in quickly. They don't keep supervising the products they advertise, which is an example of failed speculation.

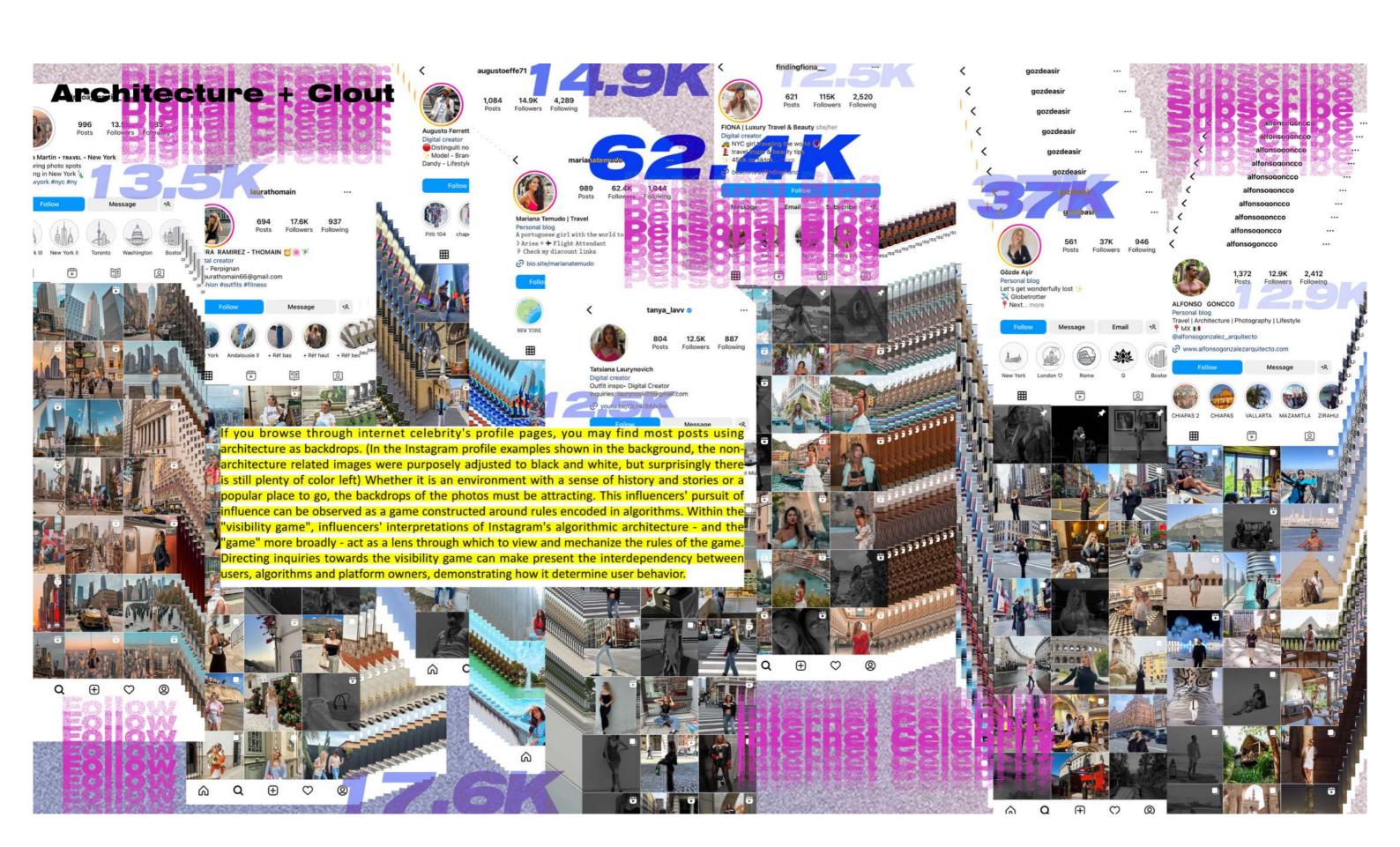


LOADING



Online market







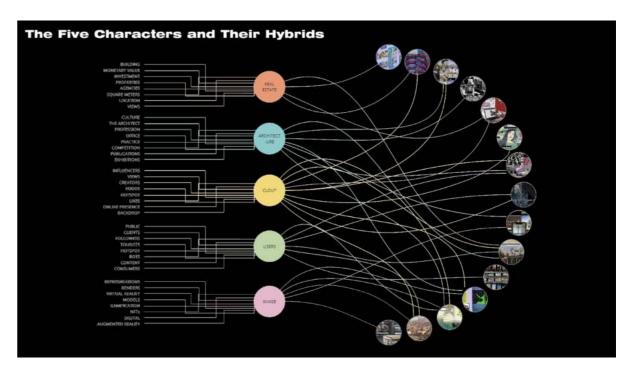
SPECULATING: CRAFT ATELIER, CLICK STUDIO AND CLOUD LAB

Conceptual high-rise tower design

Advisor: Corneel Cannaerts, Michiel Helbig Group work Summer, 2023 Studio Project

The significance of the digital realm is rapidly increasing in to-day's world, with numerous industries embracing digital technology to bring about revolutionary changes. Architecture is no exception to this transformative trend, as various aspects, including Al and other algorithms, contribute to this transition. However, what people witness daily may not always represent the complete reality, as digital techniques now allow them to virtually access distant places or even immerse themselves in fictional environments.

This project creates the studio tower for an architecture firm that purely pursues the digital perspective of architecture, especially architecture that only exists as images, models and systems. The application of digital tools and techniques varies widely, from expensive NFTs to surrealistic architecture arts, to holographic projection for visualisation, to construction games like minecraft. These projects explore the boundaries between reality and virtuality, challenging or becoming part of the conventional stereotypes associated with architecture. At the heart of this digital world are algorithms, which reshape our way of thinking and offer innovative options for the future development of architecture. Not everything has to be confined to reality or entirely fictional. Embracing these technological advancements allows architects to envision novel solutions and create spaces that were previously unimaginable.





From Characters to Hybrids

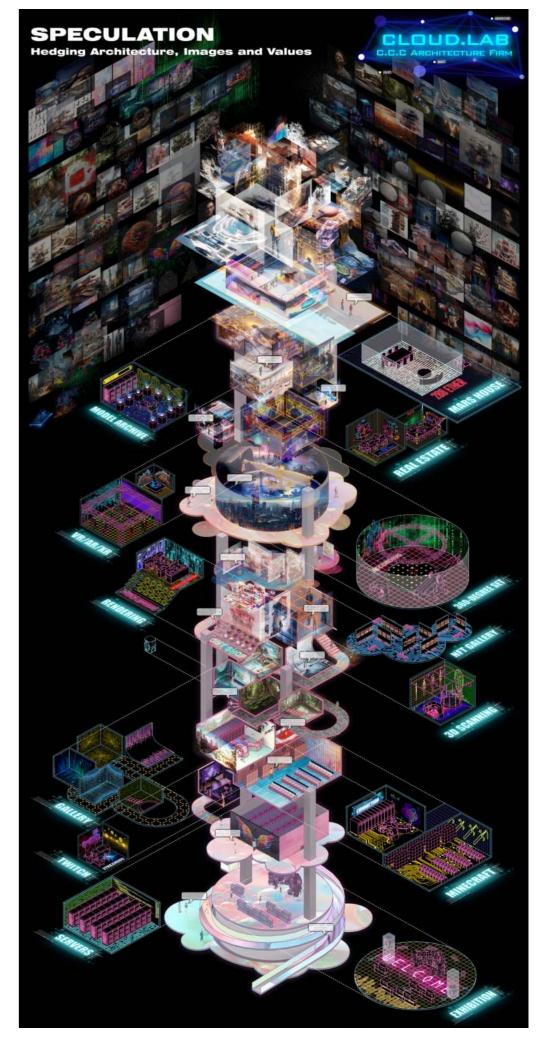


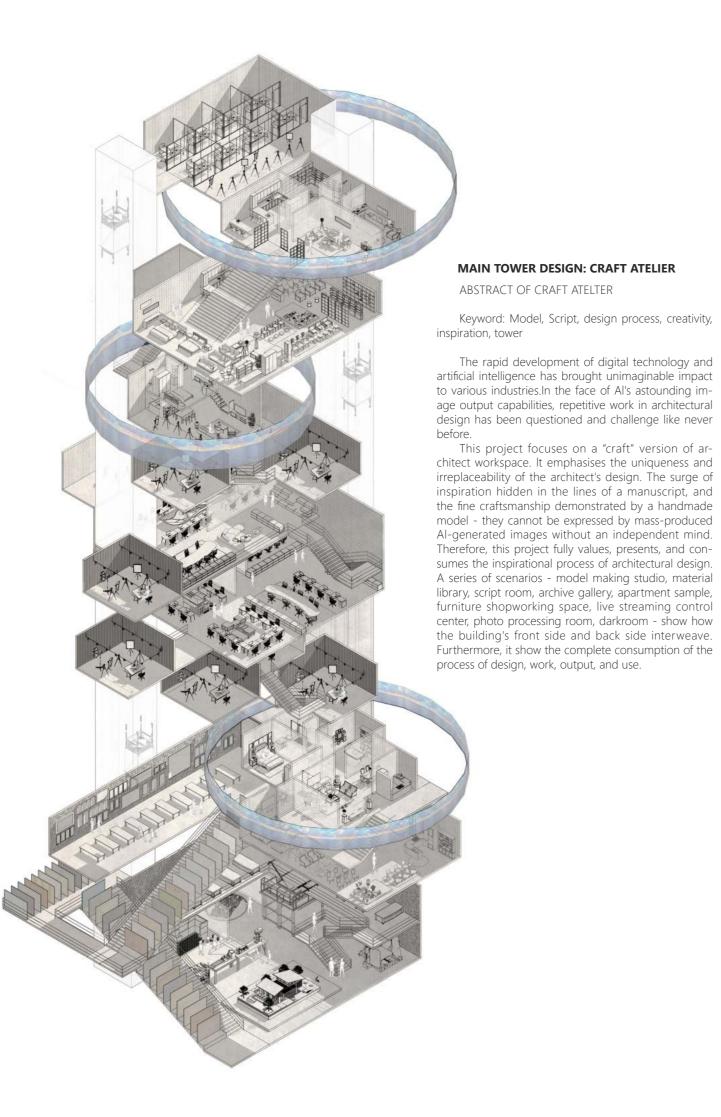








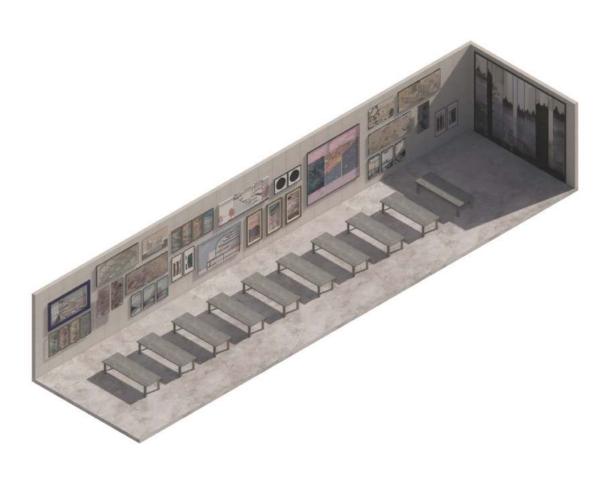




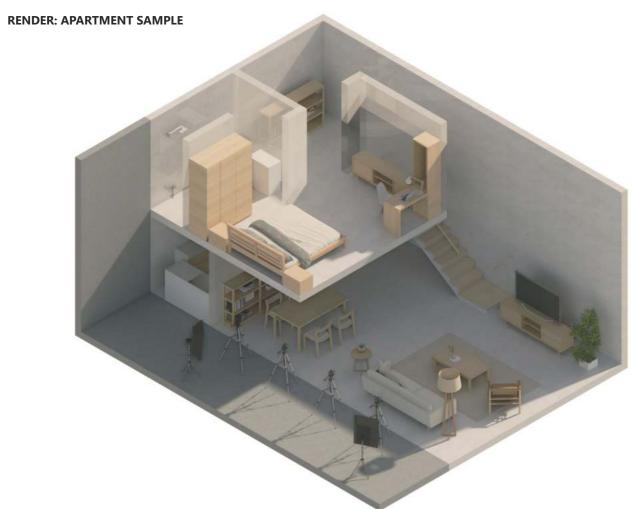
RENDER: MODEL MAKING ROOM+ MATERIAL LIBRARY

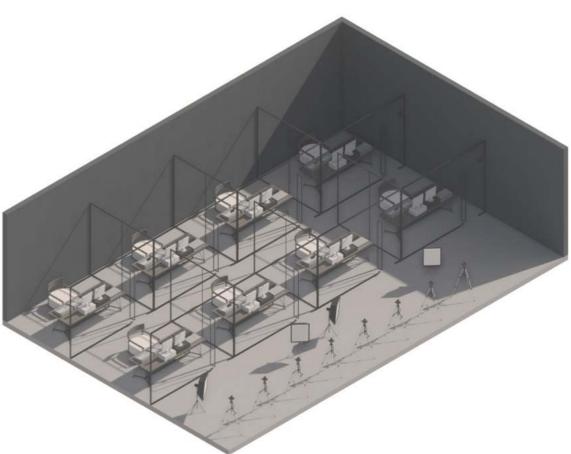


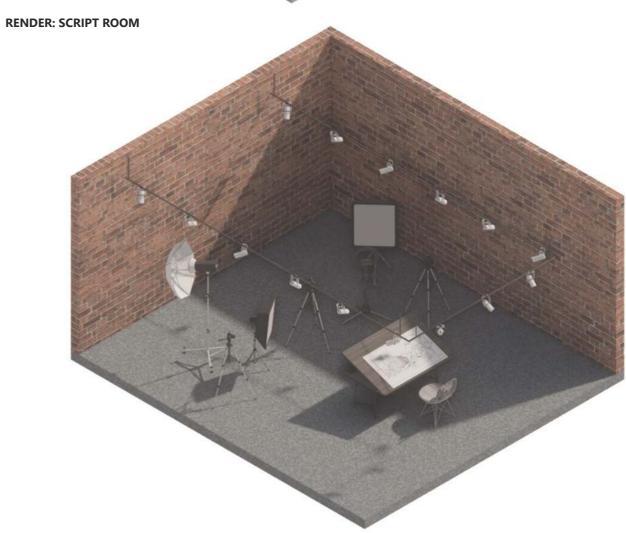
RENDER: ARCHIVE GALLERY











BRIDGING: A MULTI-FUNCTIONAL CONNECTING ZONE

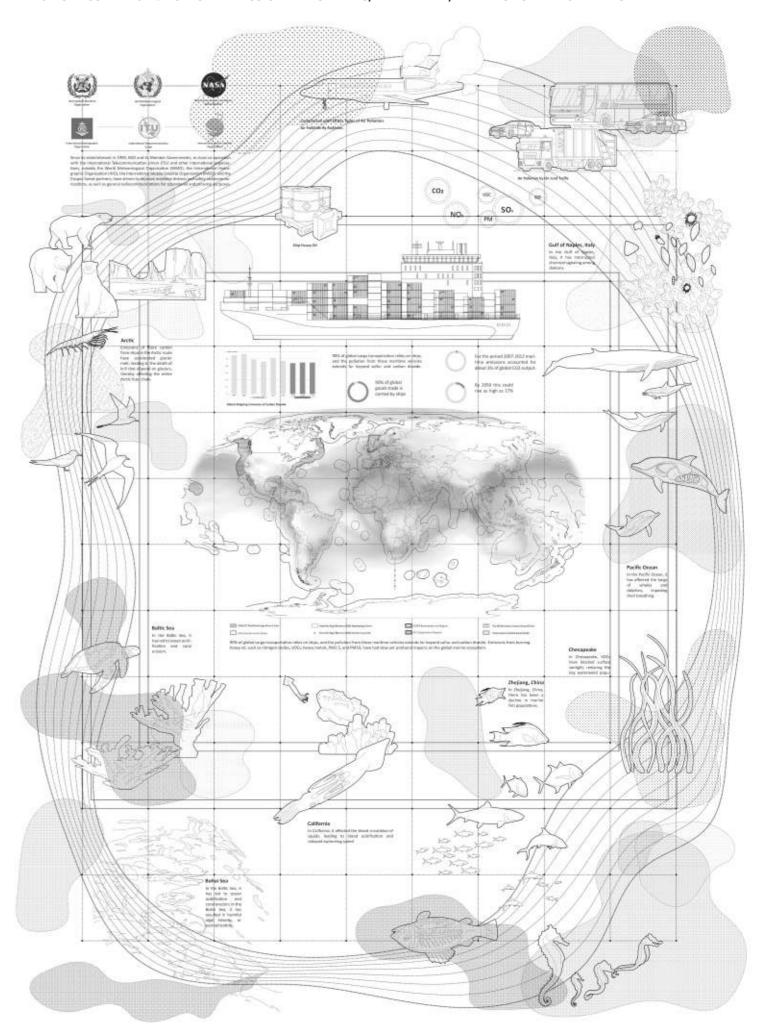
Conceptual mega-scale design

Site: Nunavut, Inuit Nunagat, Canada Advisor: Nahyun Hwang Group work Fall, 2023 Studio Project

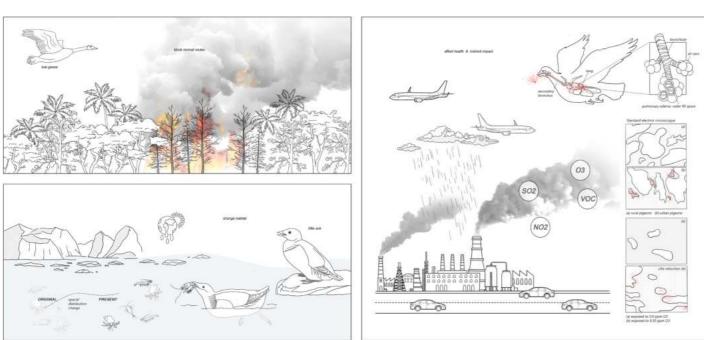
When we look at "air pollution" issue, we often focus on construction, vehicle exhaust and factory emissions. But above sea level, there is another important factor that is often overlooked: ship emissions. In the arctic, there are fewer regulations and measures in place than in the Pacific and Atlantic Oceans. Our research is therefore situated in Inuit Nunagat (the land, water, and ice of the homeland of Inuit in Canada), where the NWP (Northwest Passage, one of most common shipping routes in arctic area) crosses a complex terrain and poses a number of problems beyond air pollution.

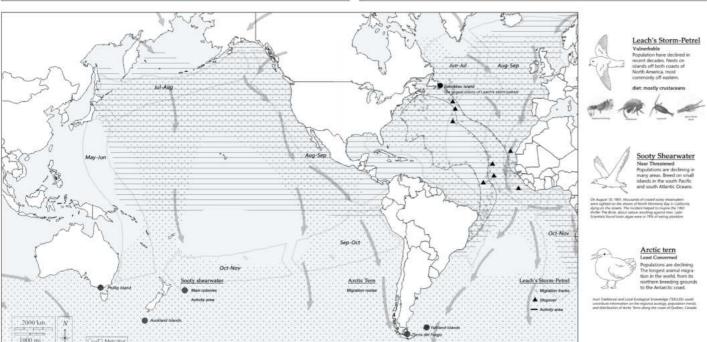
In the final design, we tried to form a connecting zone between the continents at the must-pass points of the NWP. In this zone, we are not only controling and managing the number of ships passing through by movable gates, but also attempting to prevent or mitigate the problems caused by ships through a series of multi-purpose floating islands.

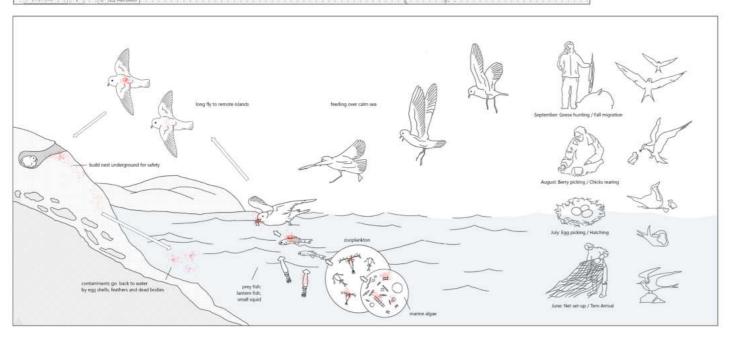
TOPIC ILLUSTRATION: HOW SHIP EMISSION AFFECT BIRDS, MARINE LIFE, AND ARCTIC ENVIRONMENTS



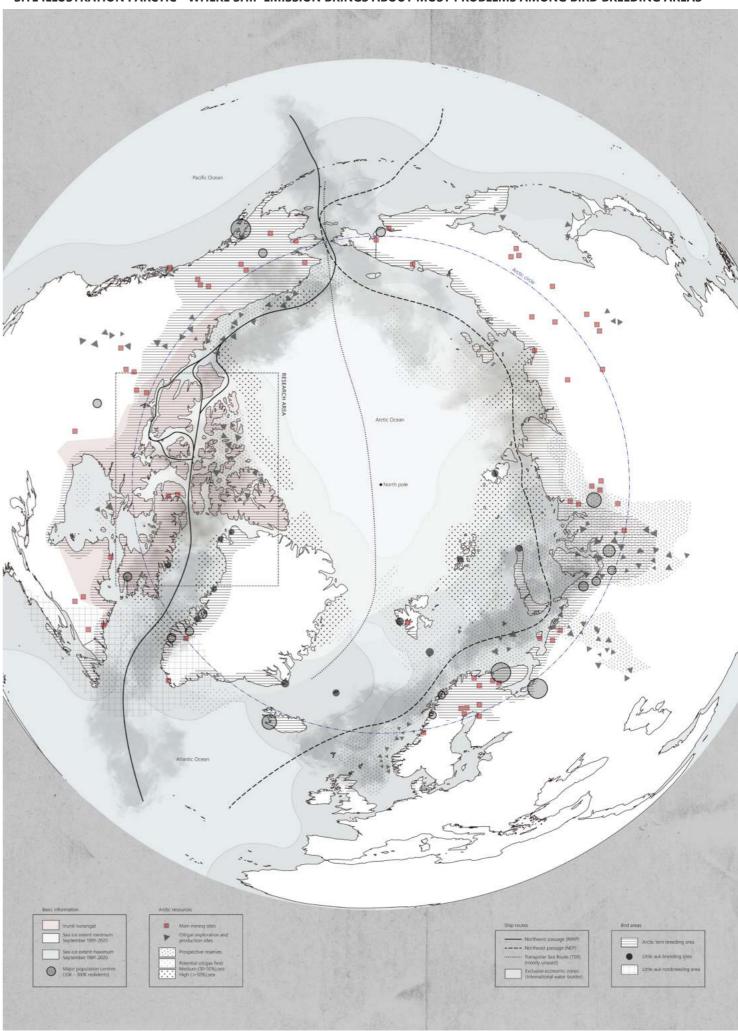
TOPIC ILLUSTRATION: HOW BIRDS' HEALTH, HATCH HABITS AND MIGRATION ROUTES ARE AFFECTED BY AIR POLLUTION





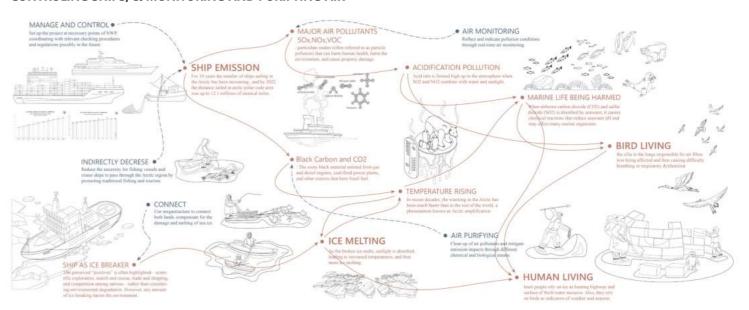


SITE ILLUSTRATION: ARCTIC - WHERE SHIP EMISSION BRINGS ABOUT MOST PROBLEMS AMONG BIRD BREEDING AREAS

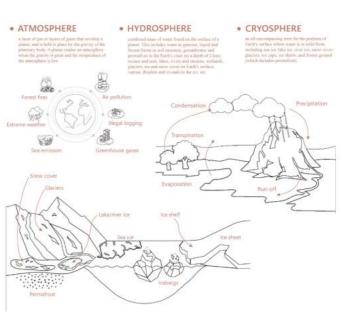


SITE ILLUSTRATION: INUIT NUNANGAT- WHERE NWP(NORTHWEST PASSAGE), BIRD BREEDING AREAS, AND TRADITIONAL **INUIT SLED HUNTING ROUTES OVERLAP** the Inuvialuit Settlement Region Black guillemots breeding area

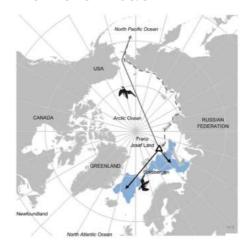
CONCEPT DIAGRAM: MODERATE SHIP EMISSION, & ENHANCE BIRD LIVING AND HUMAN LIVING, BY MANAGING AND CONTROLING SHIPS, & MONITORING AND PURIFYING AIR







RESEARCH CATALOG: SHIP AND BIRD



Climate Change Overturns Bird Migration 1

Climate models predict that by 2050 the Arctic Ocean will be sea ice free each summer. To illustrate the biogeographical consequences of such drastic shifts, we performed an in-depth study of little suks (Alle alle), the most numerous aftic seabirf. Our study (listrates how global warming may radically modify the biogeography of migratory species, and provides a general methodological framework linking migratory energetics and spatial ecology. The picture shows the current (black arrows) and future (grey arrows) migratory strategies of little auks breeding in Franz Joset Land, due to favorable thermal conditions encountered along the peripheral route offset the enhancing flight costs of the greater travelling distance.

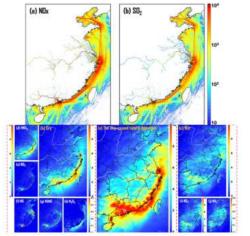
Transarctic flights and high-latitude residency in a sea ice free Arctic area Manon Clairbaux et al.



Marine Vessel Emissions

Ships are significant sources of air pollution. The emissions of sulfur oxides, nitrogen oxides, and particulate matter from them have a considerable impact on the air quality of coastal regions. For this reason, the International Maritime Organization (IMO) has established a series of emission standards and regulations, such as the low-sulfur fuel regulation in 2020 International Maritime Organization (IMO) MARPOL 73/78 Annex VI is an international convention concerning the atmospheric emissions from ships, Its aim is to limit the atmospheric pollution by ships. Specifically, Annex VI sets limits on the emissions of nitrogen oxides and sulfur oxides from ships and further reduced the maximum allowable content of sulfur in fuel in 2020.

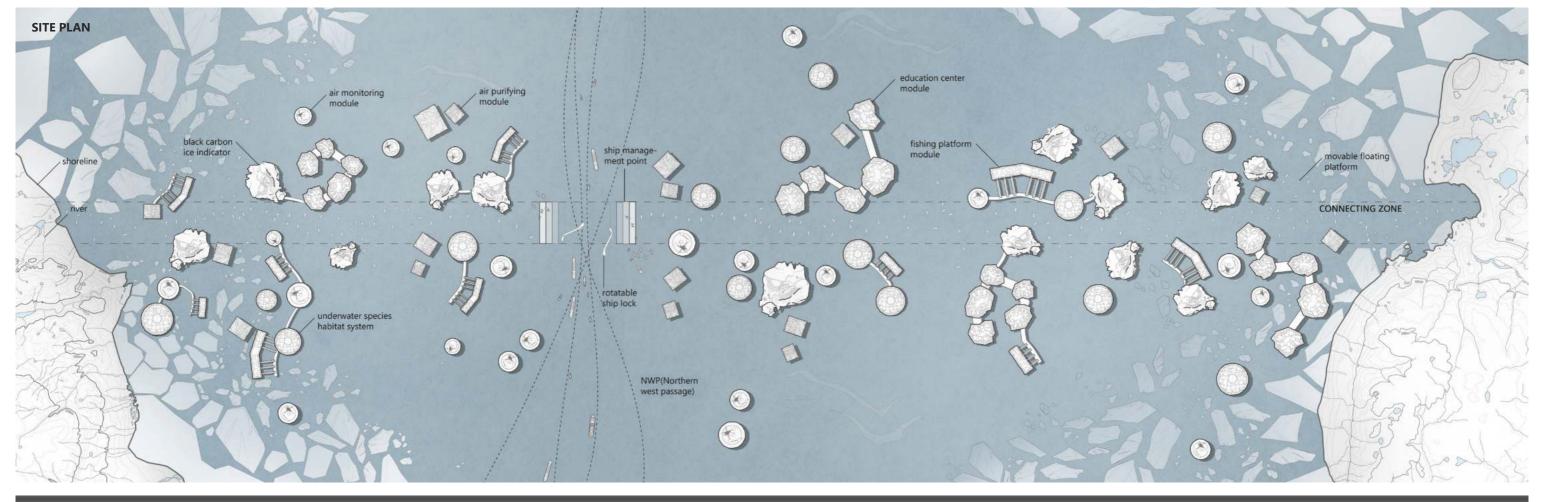
Reducing GHG Emissions from Ships: Here's What's on the Agenda for Next Week's IMO Marine tr romment Profesion Committee Meeting https://gcaptain.com/isducing-greenhouse-gases-emissions-from-ships-at-top-of-the-agenda-at-mi pp-72/ https://www.imo.org/en/about/Conventions/Panes/International-Convention-for-the-Prevention-of-Panes/International-Convention-for-the-Prevention-of-Panes/International-Convention-for-the-Prevention-of-Panes/International-Convention-for-the-Prevention-of-Panes/International-Convention-for-the-Prevention-of-Panes/International-Convention-of-the-Prevention-of

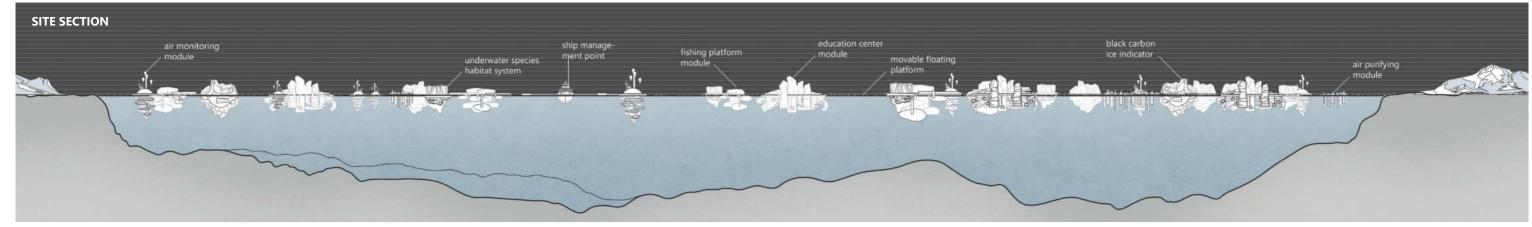


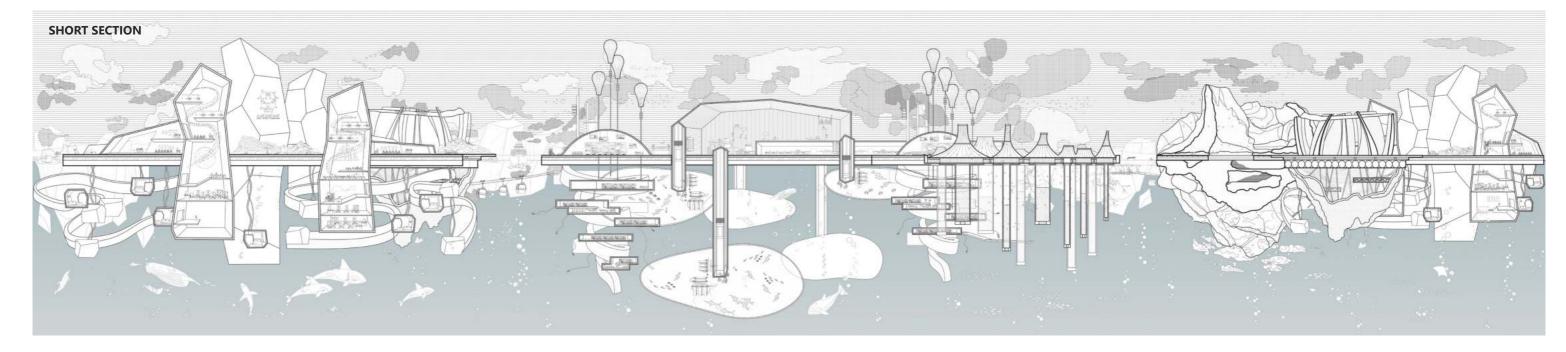
Ship Emission and Phytoplankton Growth

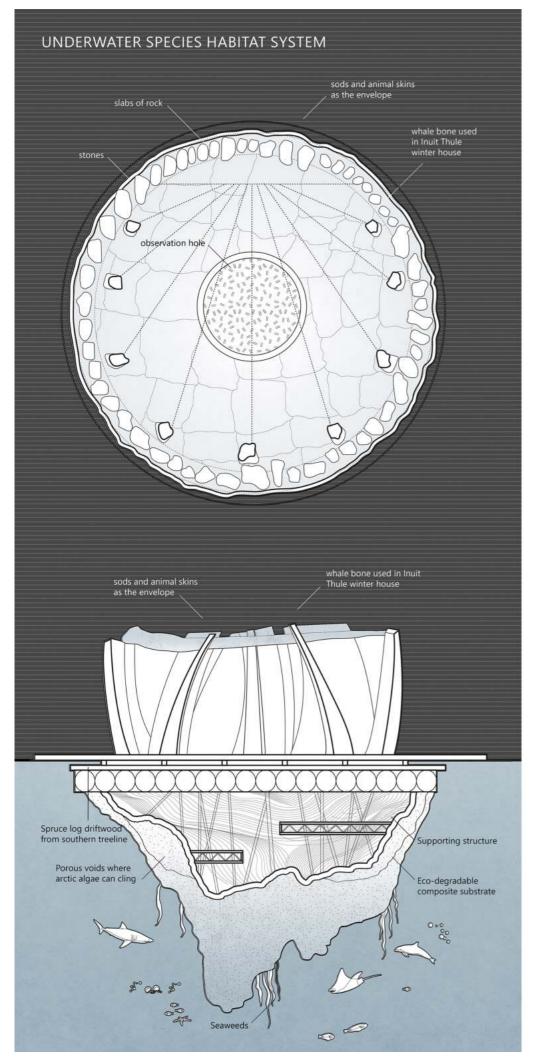
Airbome emissions from ships have a significant impact on the growth of phytoplankton in both coastal and open ocean areas of the Northwest Pacific Ocean. Compared to open oceans, coastal waters have a higher phytoplankton biomass, making them more effective at carbon fixation. Moreover, in coastal waters, larger phytoplankton with faster sinking rates dominate, increasing the export efficiency of fleed carbon due to ship emissions. This, in turn, alters the marine food chain structure, as phytoplankton serves as a primary food source for many marine animals. From this perspective, the air pollution caused by ship emissions might have even larger and more far-reaching subsequent impacts.

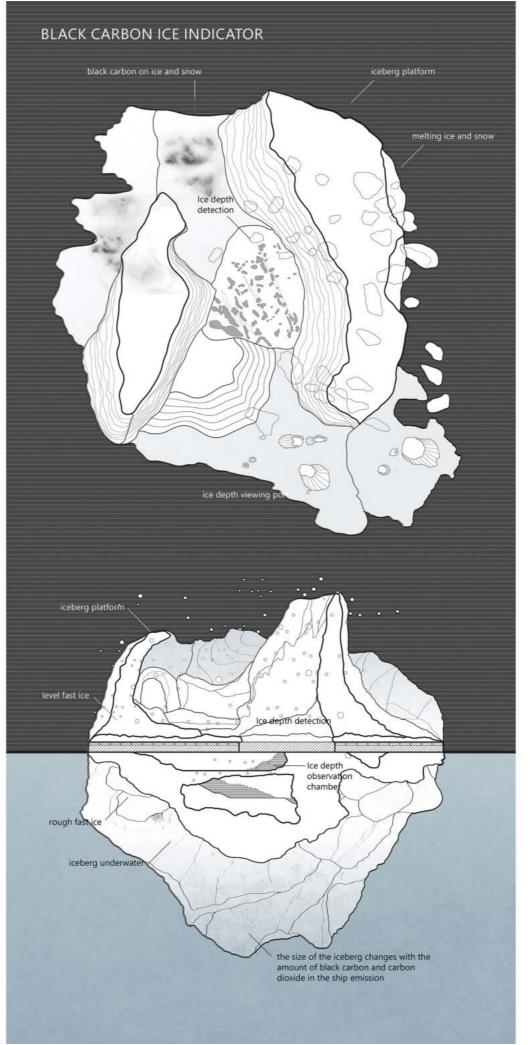
The impact of ship emissions on nitrogen and sulfur deposition in China

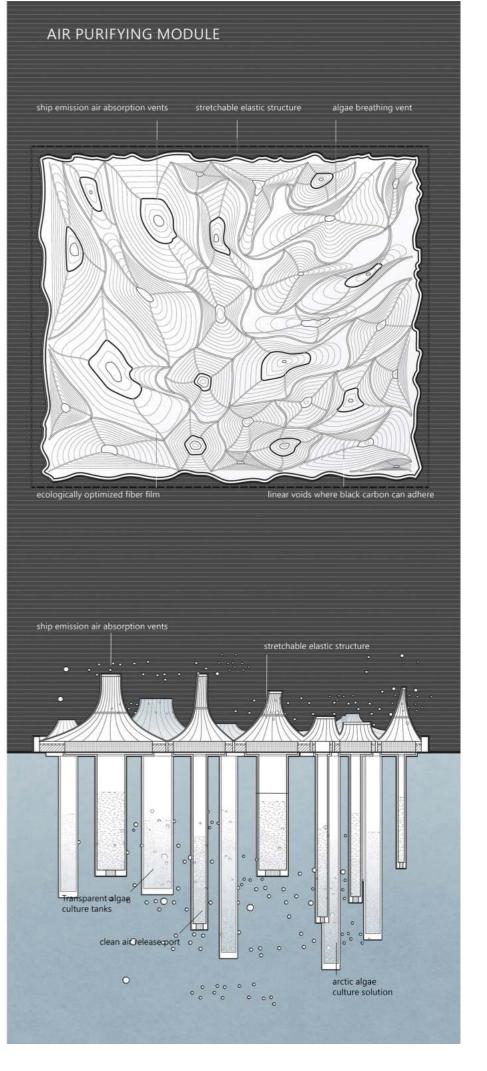


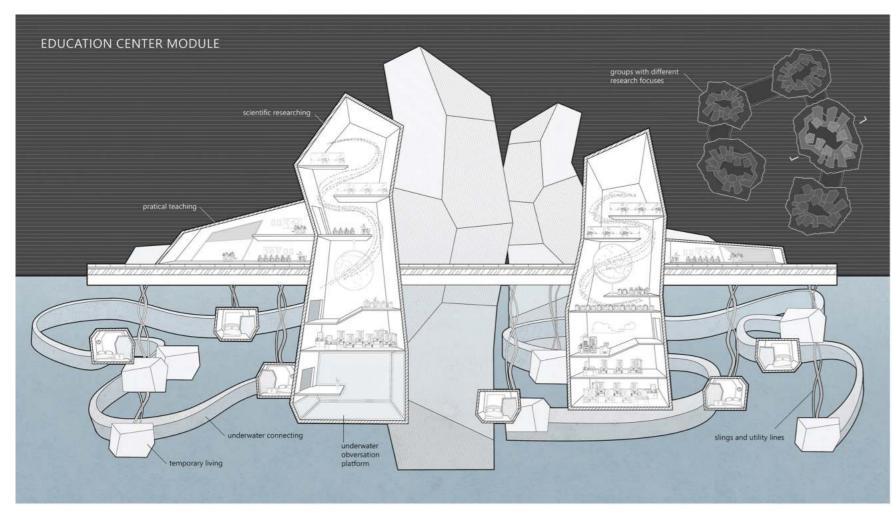


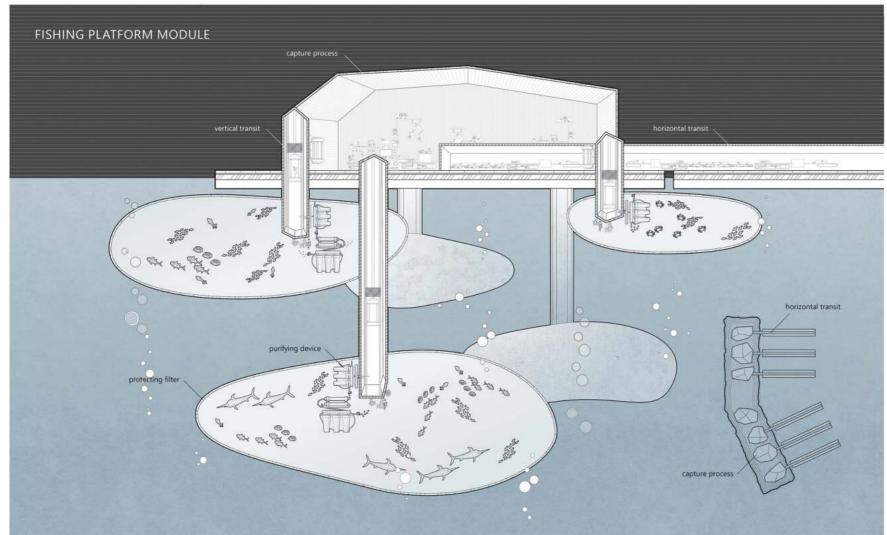


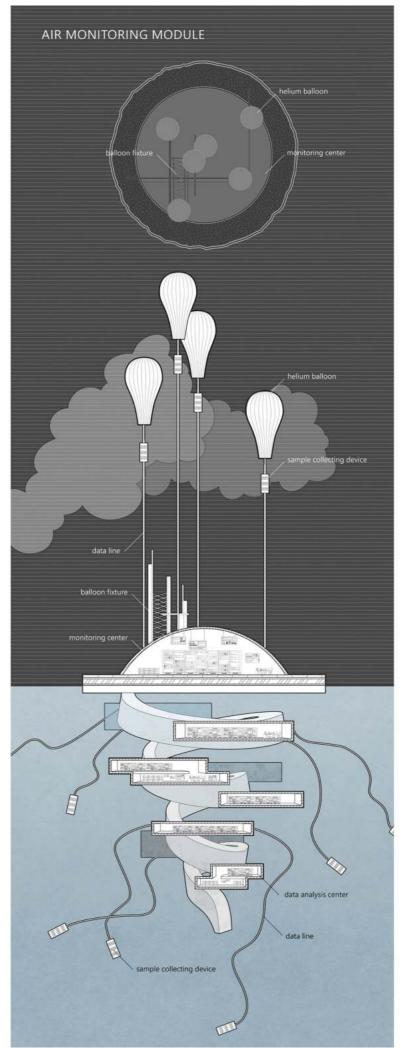






















REIMAGING FUTURE: FLOATING AQUASCAPE

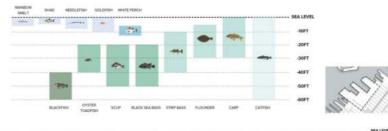
Aquaculture complex design

Site: New York, New York, United States Advisor: Laurie Hawkinson Group work Spring, 2024 Studio Project

Set against the Brooklyn waterfront, our collaborative project merges six teams into a vibrant complex. Our focus is the Aquaculture Complex, seamlessly integrating aquaculture with diverse functionalities, from fishing platforms to educational spaces and markets. Our aim is to establish Brooklyn's second aquaculture hub, leveraging the East River's resources.

Utilizing waterfront resources, our complex offers unique aquatic experiences while serving as a hub for education and research, raising awareness of aquaculture's importance. Integrated with Brooklyn's greenway, it enriches urban life while advancing sustainable practices. In summary, our Aquaculture Complex epitomizes innovation and sustainability, fostering community engagement and urban aquatic resource management.

Waterfront Resource: East River

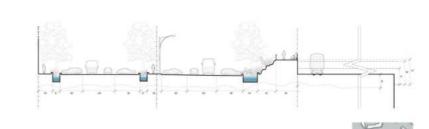




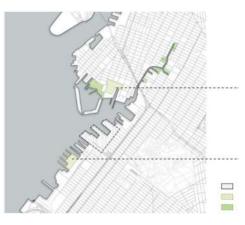
NYC Fish Market:



Brooklyn Greenway



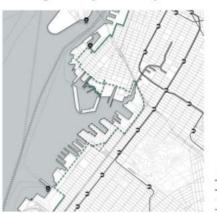
Limited Waterfront Access: UNUSED WA



Surrounding Schools: EDUCATION



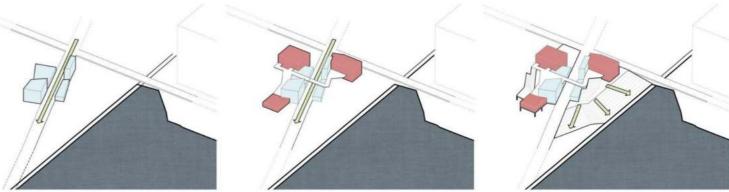
Existing Subway + Bikeway: POTENTIAL CONNECTION



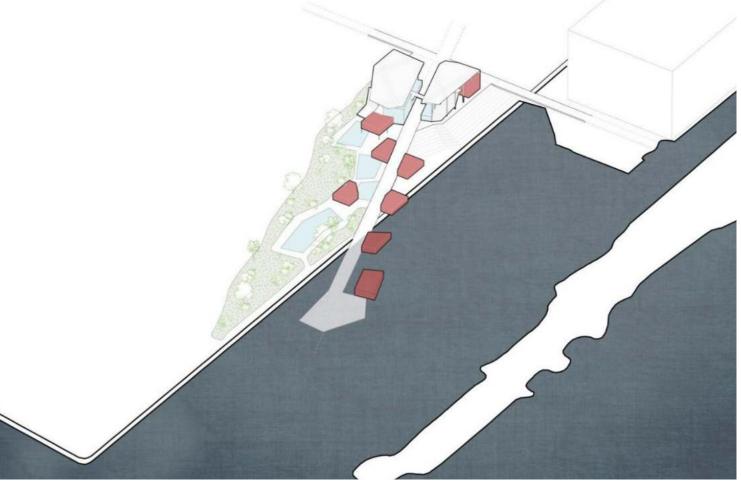


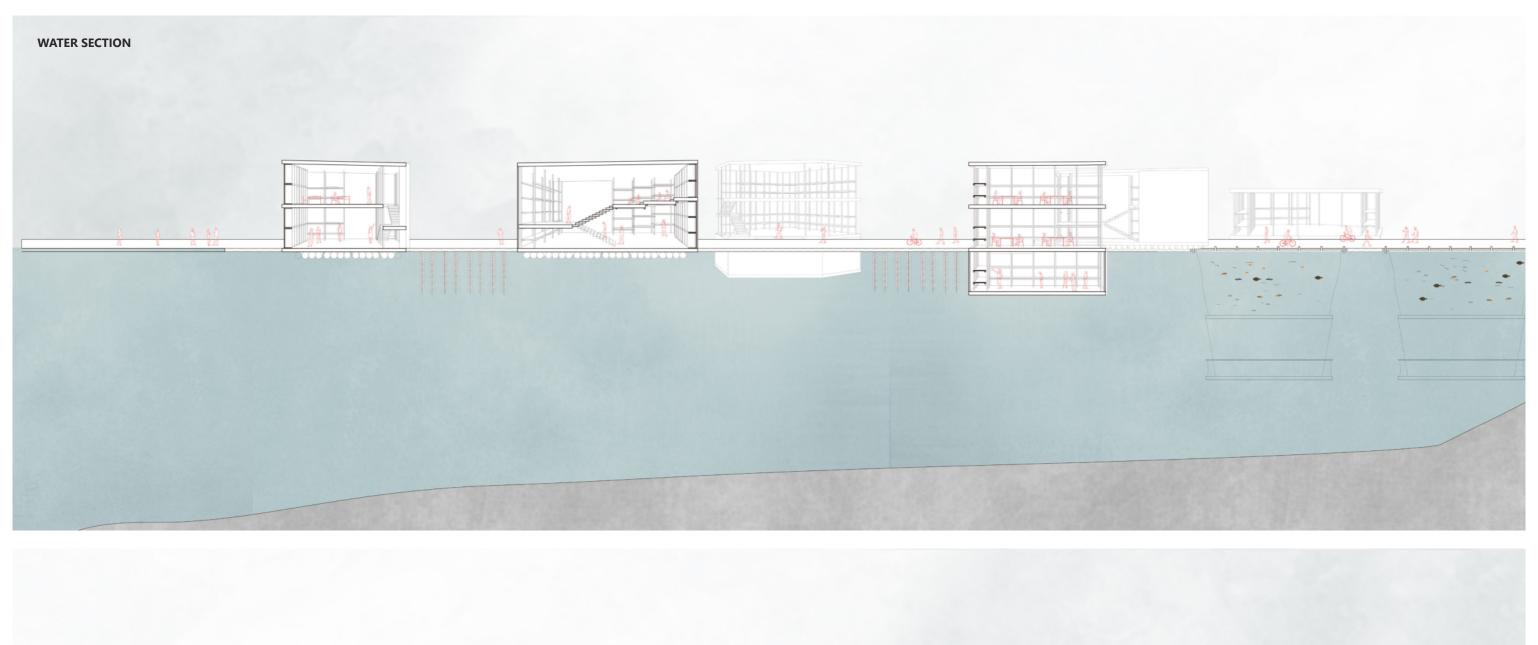


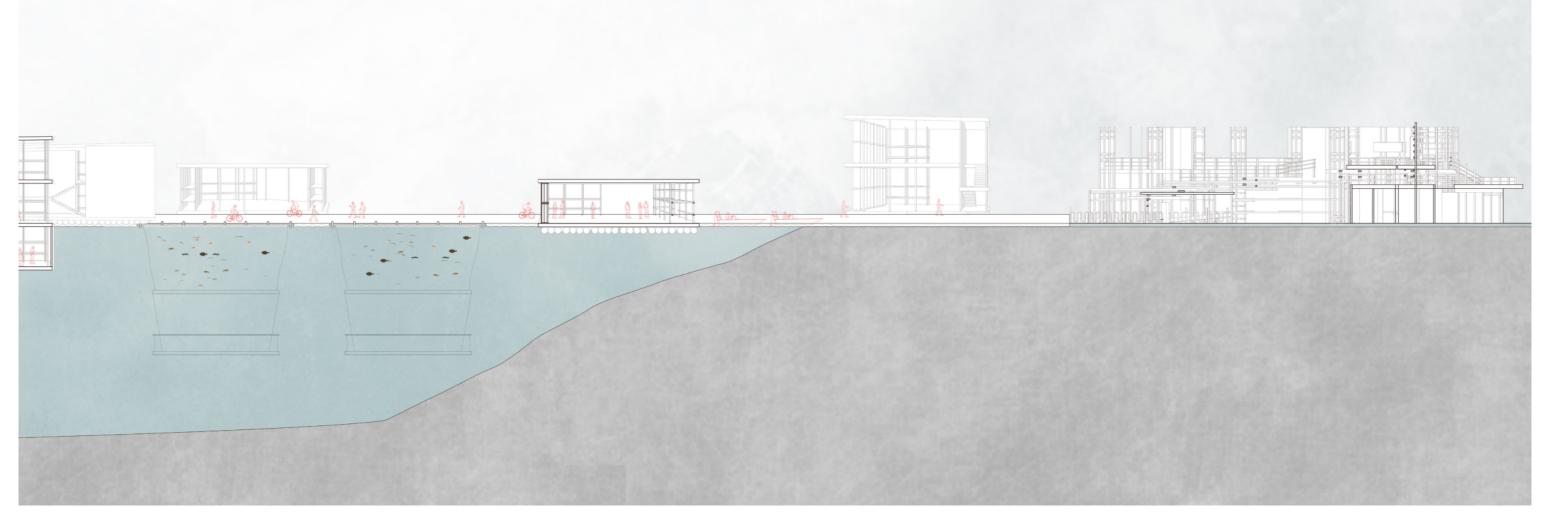
STRATEGY

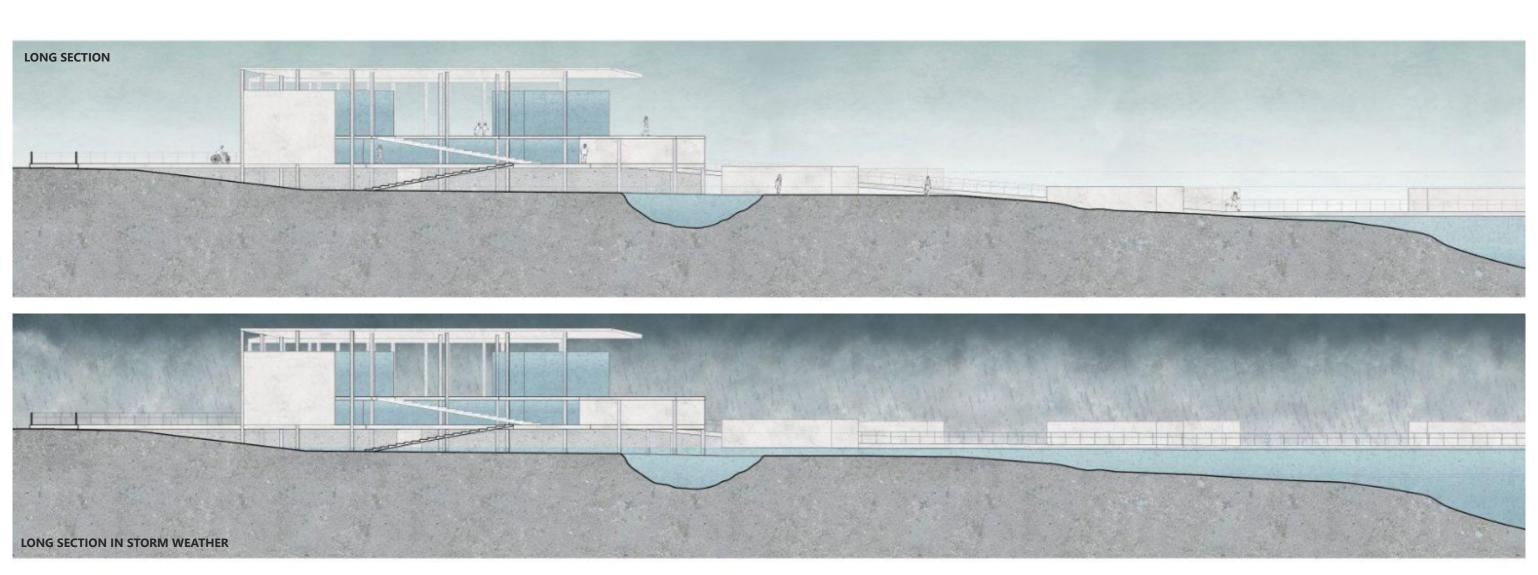


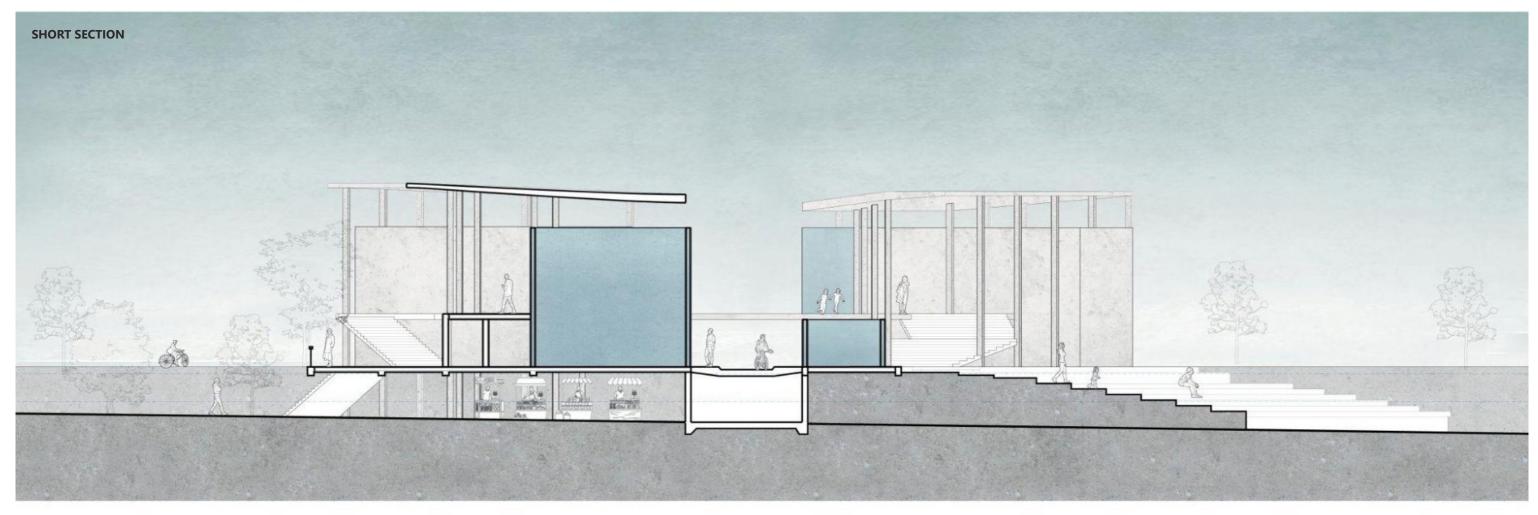
SITE AXON











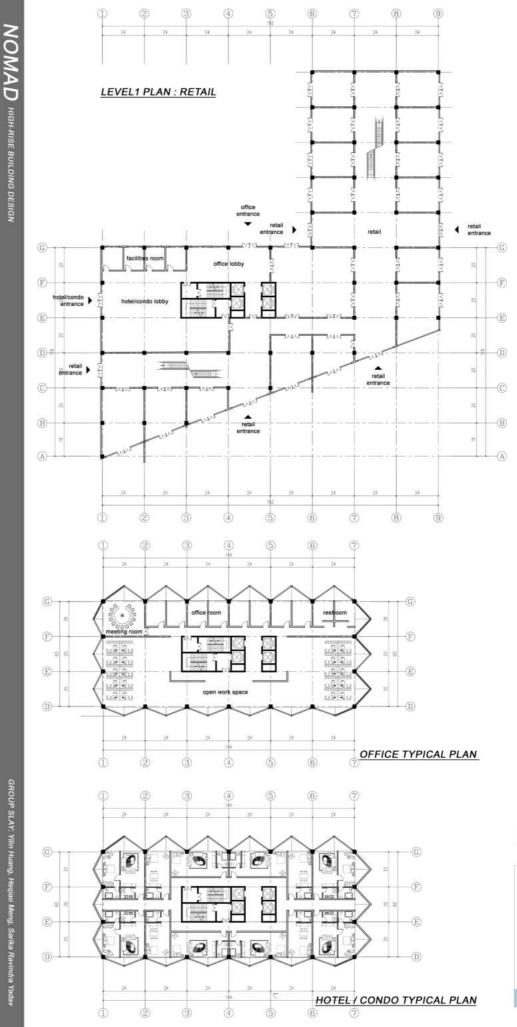
RETHINKING BIM: NOMAD TOWER

High-rise building design

Site: New York, New York, United States Advisor: Joe Brennan Group work Fall, 2023 Elective Project

Nestled in New York City's NOMAD district, our project epitomizes modern architectural design. Employing Revit, Rhino, and Grasshopper, we merge digital proficiency with practical application.

Our endeavor serves as both a training ground for software mastery and a holistic exploration of architectural principles. Seamlessly blending commercial, office, and residential functionalities, our design caters to the dynamic needs of urban life. Facades are more than aesthetic; they're innovative solutions marrying form, function, and sustainability. Sustainability isn't an afterthought; it's ingrained in every decision, from materials to energy efficiency. Natural light floods interiors, complemented by carefully crafted artificial lighting schemes, fostering productivity and well-being. Our project isn't just about buildings; it's about shaping communities and enhancing human experiences through thoughtful design.



BUILDING HEIGHT ANALYSIS

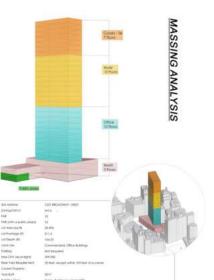


TRANSPORTATION ANALYSIS

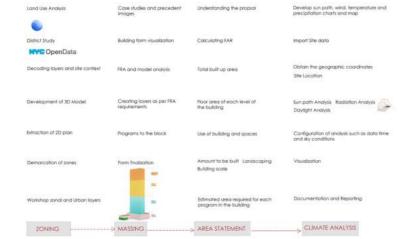


COMMERCIAL AND HOTELS ANALYSIS

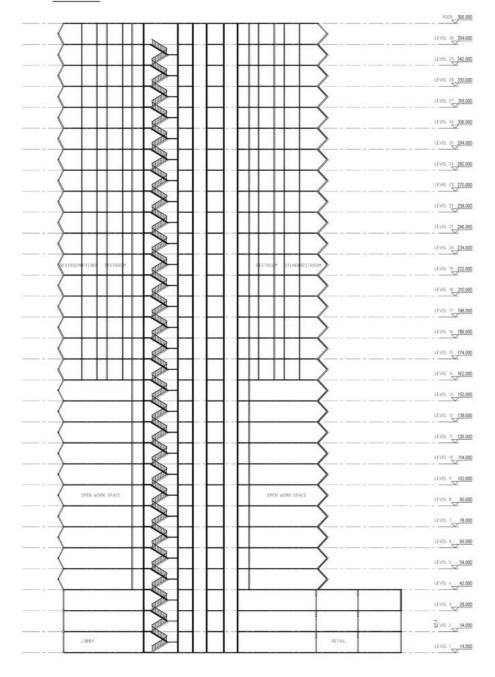
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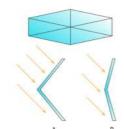
WORK FLOW DIAGRAM SUNSHINE INTENSI

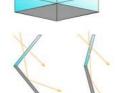


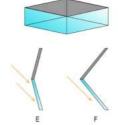
SECTION



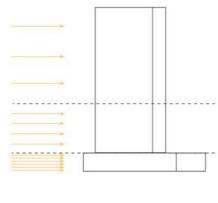
SUNSHINE INTENSITY (FROM STRONG TO WEAK)







FACADE LOGICS

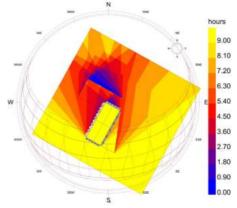


HOTEL	East West North	Facade D Facade E Facade F Facade C	
OFFICE		Facade B Facade A	
RETAIL	Curtain	Wall	

DIRECT SUN HOURS ANALYSIS

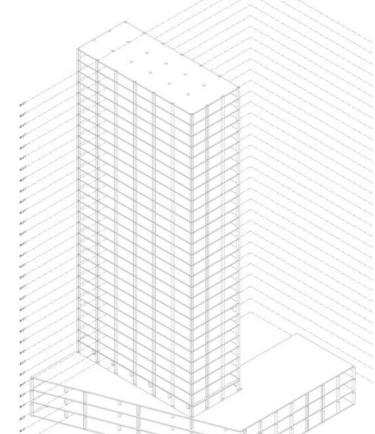
NOMAD HIGH-RISE BUILDING DESIGN

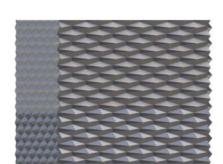
AXON VIEW



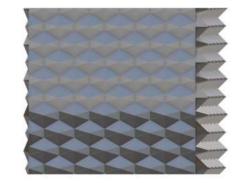
9.00 8.10 7.20 6.30 5.40 4.50 3.60 2.70 1.80 0.90 0.00

STRUCTURE VIEW





FACADE DETAIL OF LONG SIDE



FACADE DETAIL OF SHORT SIDE

OUTSIDE PROJECT: PLAN WITH PROGRAMS Bagel / Coffee / Iceo Study Break

OUTSIDE PROJECT: PROGRESSING PHOTOS













GAP (GRAPHIC ARCHITECTURUAL DESIGN): NARRATIVE















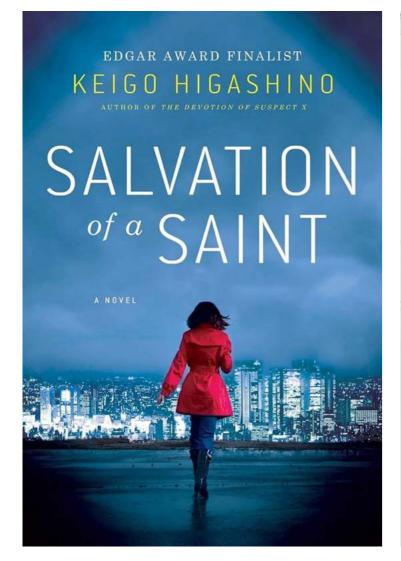








GAP (GRAPHIC ARCHITECTURUAL DESIGN): COVER COVER





GAP (GRAPHIC ARCHITECTURUAL DESIGN): TABLE OF CONTENTS

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		Weapon	245			Siberia	120	Weapon	245	Epilogue	452
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GAP (GRAPHIC ARCHITECTURUAL DESIGN): TRANSPARENCY

TIANMING YUN'S FAIRY TALE

The Kingdom's New Painter

// Once upon a time, in the distant Kingdom of No Stories, tranquility reigned supreme. Here, amidst the gentle sway of time, stories were deemed unnecessary, for they often brought with tumultuous tides of change.

Within the tranquil confines of the Storyless Kingdom dwelled a wise king, a benevolent queen, and a council of capable ministers, alongside their diligent subjects. Life flowed like a placid stream, where yesterday mirrored today, and tomorrow promised no deviation. Yet, the narrative of this serene realm was about to undergo a profound shift, catalyzed by the maturation of

Kingdom's lineage was blessed with two sons and a daughter: Prince Deepwater, Prince Icesand, and Princess Dewdrop. While Prince Deepwater ventured to Tomb Island in the Taotie Sea in his youth, his whereabouts remained shrouded in mystery. Meanwhile, Prince Icesand, nurtured within the palace walls, harbored a temperament veiled in shadows. From a tender age, his intelligence was overshadowed by a penchant for tyranny, orchestrating grim games with hapless creatures as pawns. Despite fleeting moments of tranquility in his adolescence, the king discerned a lurking menace within the prince's guise, akin to a slumbering serpent awaiting its awakening.

Ultimately, the king resolved to disinherit Prince Icesand, entrusting the kingdom's future to the capable hands of Princess Dewdrop. Endowed with wisdom, kindness, and unparalleled beauty, Princess Dewdrop illuminated the realm with her presence, commanding reverence from nature itself. With her ascension, a glimmer of narrative emerged within the Storyless Kingdom, promising a future embellished with tales of benevolence and prosperity.

// On the evening of his 60th birthday, as the sky danced with cascading fireworks, turning the night into a flowing garden, the royal palace shimmered with brilliance, nearly transparent in its radiance. Amidst the melodies of song and laughter, wine flowed freely like a river.

THE KINGDOM'S NEW PAINTER.

information, so the difficulty we will face is not that we cannot decipher any hidden very deeply, which adds to the polysemy and uncertainty of the the real intelligence information contained in these three stories must be characterize precisely the context of literary works. For the sake of security, information as a strategic direction, but vagueness and polysemousness must be certain, regardless of its content; we can't take vague, polysemous strategic direction of mankind. If this information really exists, its meaning "First of all, it's clear what we're going to get out of it - the future

"Why do you see it that way?!" The President asked. "Unfortunately, I think this intelligence is impossible to decipher." The member of the Literary Group, a writer of children's literature, said, Once upon a time - A fairy tale

TIANMING YUN'S FAIRY TALE

COT. KING'S YOUR PAINTIN.	
Cit. Taorii: Sia	1
Cir. Prince Delipwater	1

THE MASTERIES IT REVEALS

In the backdrop of the economic downturn and societal malaise of the 1990s, two divergent fashion styles emerged, each reflecting starkly contrasting responses to the prevailing conditions.

One embraced a palette of muted hues, embodying neutrality, minimalism, and stability. It symbolized a need for calming, healing colors amidst extreme weather, war, unemployment, epidemics, and other adversities, a self-protective mechanism to navigate through turbulent times. The other style veered towards vibrant, exaggerated, and famboyant colors, embodying a fervent desire for a better life, akin to flowers blossoming amidst ruins.

This book juxtaposes these contrasting styles, exploring their historical roots, evolution, and modern significance.

Minimalism	2
Slow Fashion	6
Groutfit	8
Quiet Luxury	12
3	Y2K original
7	McBling



13

Y2K modern

Cyperpop

From 1990s











1995 - 2003









































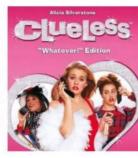












MCBLING

From 2010s

1995 - 2008

























From 2010s









QUIET LUXURY The quiet luxury style focuses on quality and details.



















