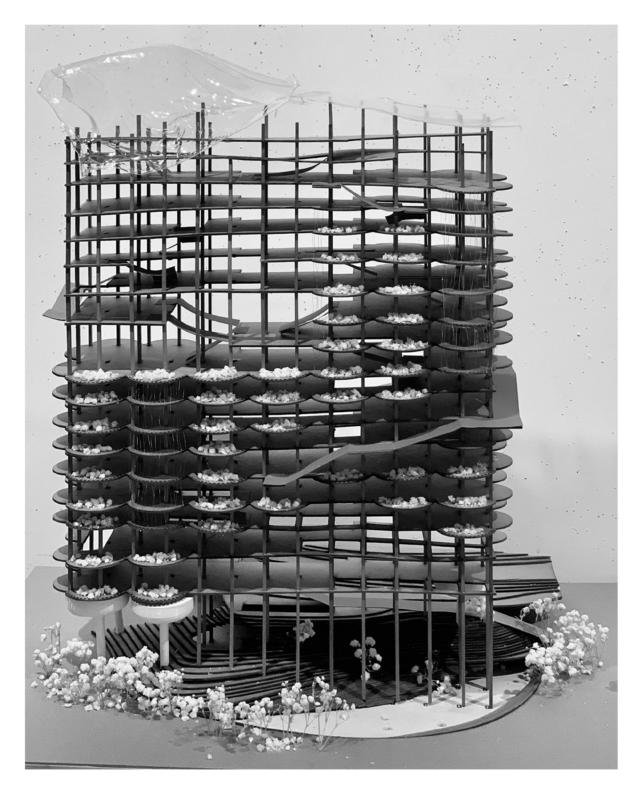
HARSHINI ASHOK



ONTENTS	1	FOOD FOR THOUGHT Advanced studio VI, Spring 2024	03
	2	PARK KINGSBRIDGE Advanced Studio V, Fall 2023	09
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01 **FOOD FOR THOUGHT**

Empowering Rio's Plate and People

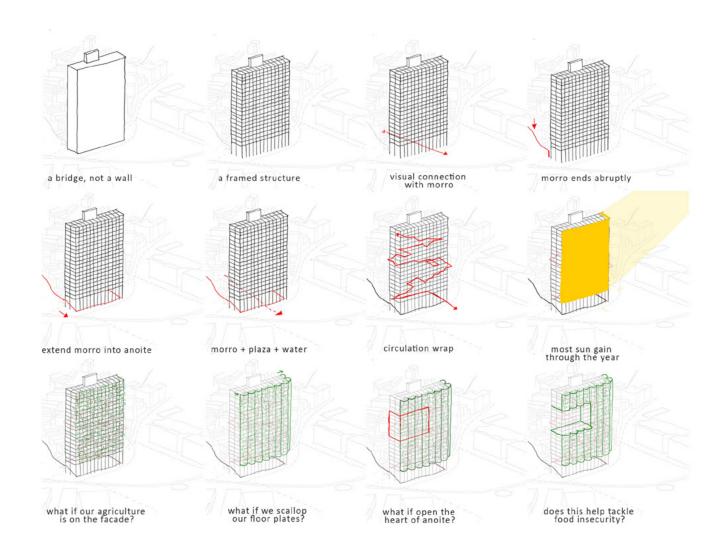
Site - A Noite, Rio de Jeneiro, Brazil Professor - Galia Solomonoff Group Partners - Stuti Murarka, Maryam Hanif

LAYERED URBANISM

Edificio A Noite, the first skyscraper in reinforced concrete in all Latin America. Located in the center of Rio, lies unused and signals decay. The building is too big to be ignored and not loved enough to be restored. What do we do then? Demolish it and build a new one? Demolish it partially? Restore it fully? Let it be an art site? Let it become a ruin on its own?

ADAPTIVE REUSE / A NOITE

Tackling Rio's food insecurity, by merging a food bank with urban farming. This "food silos" fosters community self reliance. It acts as a bridge, connecting the Morro, with the waterfront and plaza. Public walkways weave through vertical farms, community spaces and public forums.- fostering a place to nourish, learn and collaborate



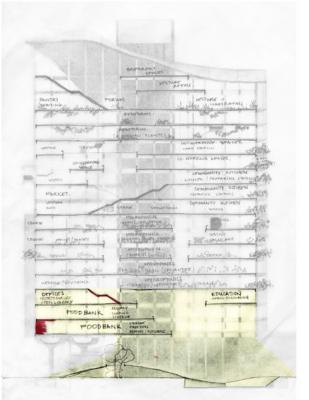
How can we weave this into the fabric of Rio and respect A Noite's rich history?

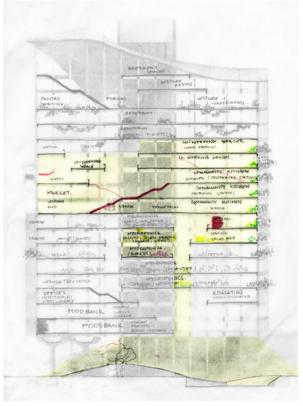
What if we not only grew agriculture, but it worked as a food bank?

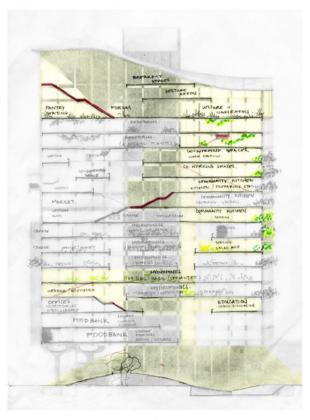


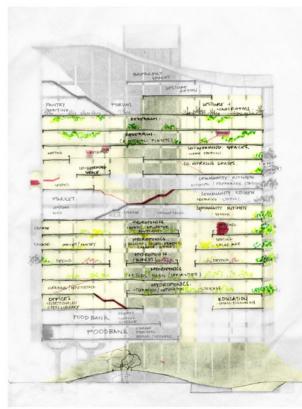
A JOURNEY THROUGH A NOITE

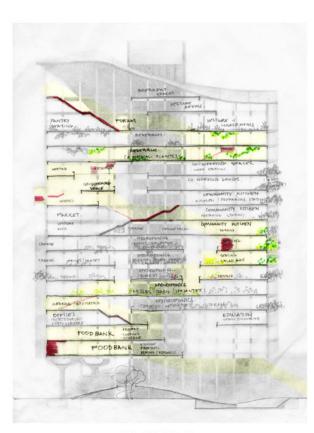
With a place to nourish, learn and collaborate



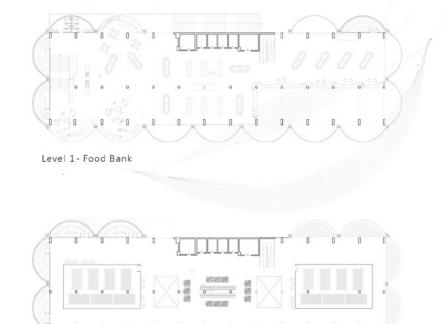




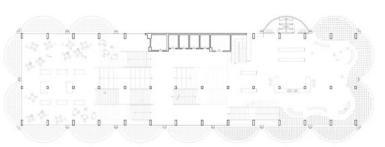




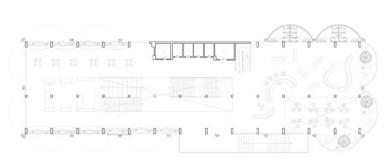
Food Bank users Recreational Forums and Discussions Employees A Public Walkway







Level 10 - Research

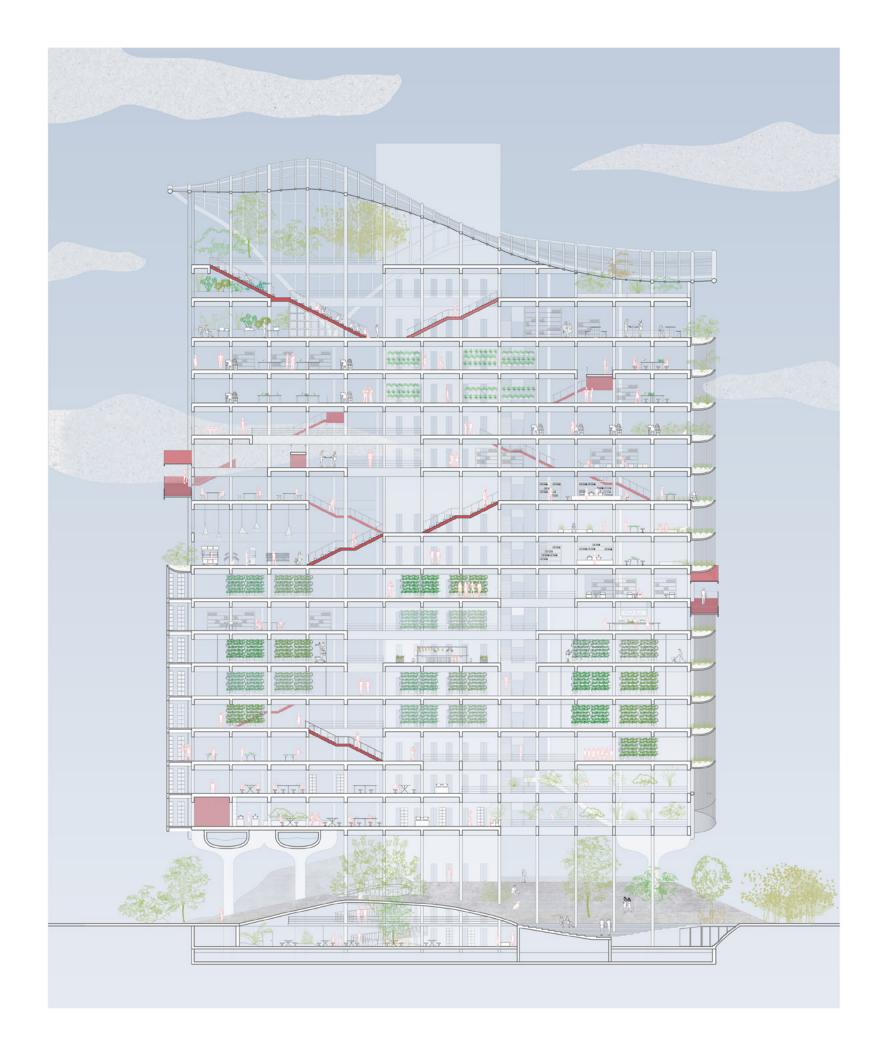


Level 16- Publlic Forum

Food insecuity in Rio is at an all time high. The people of the favelas do not have access to a nutritional meal.

This causes a divide among the people.

A Noite becomes a model for driving change.



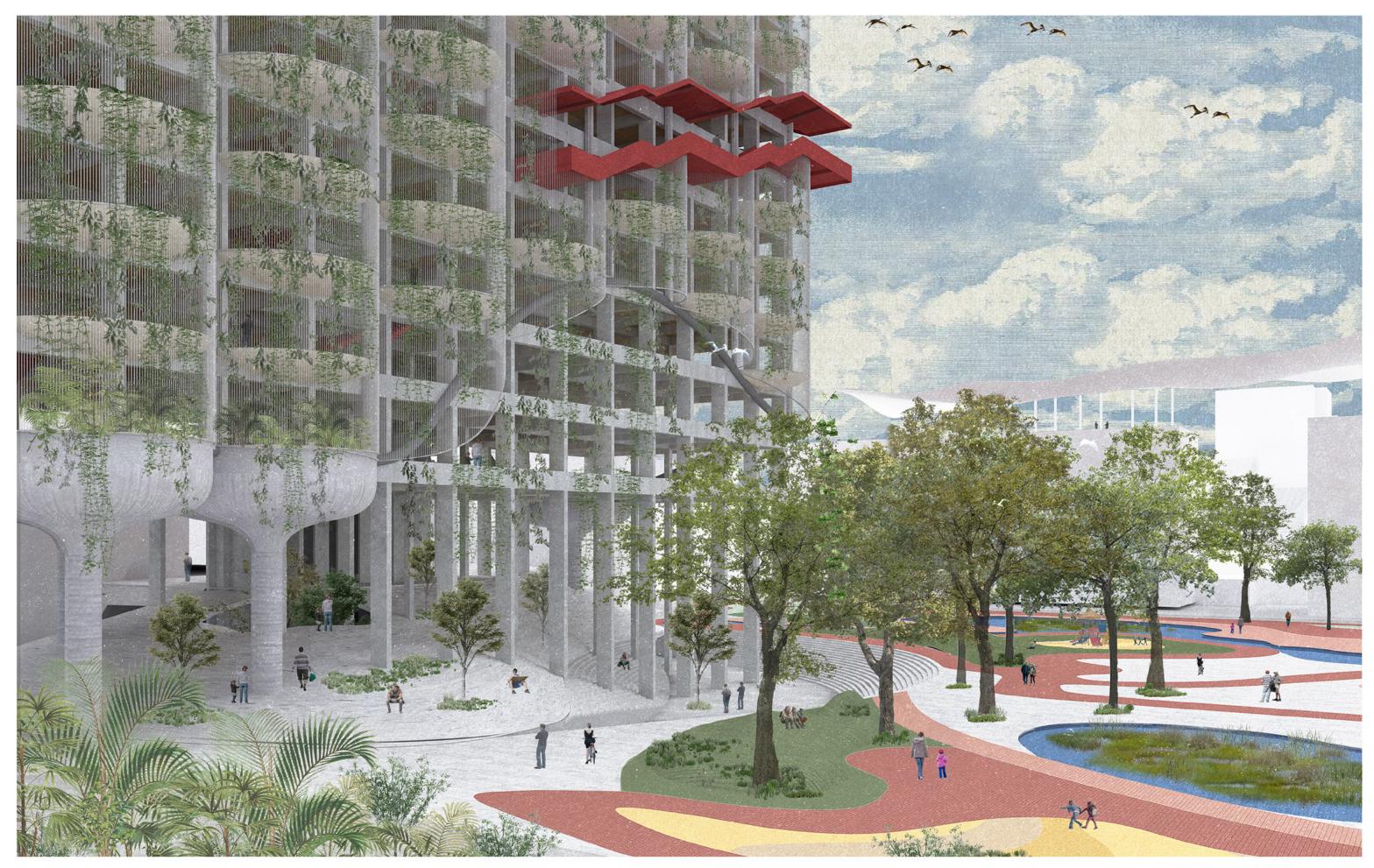


Community Kitchen











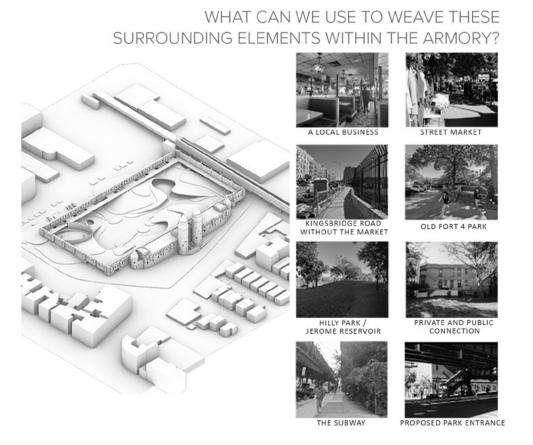
02 PARK KINGSBRIDGE Social Infrastructure for the Kingsbridge Armory

EXTREME SCALE

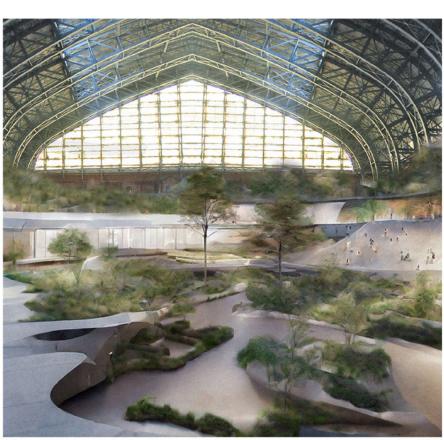
What if there was a park in the Armory that could weave the gap between parts of the n eighborhoods, enhance the health of the community, support local businesses, and also preserve the feeling of bigness?

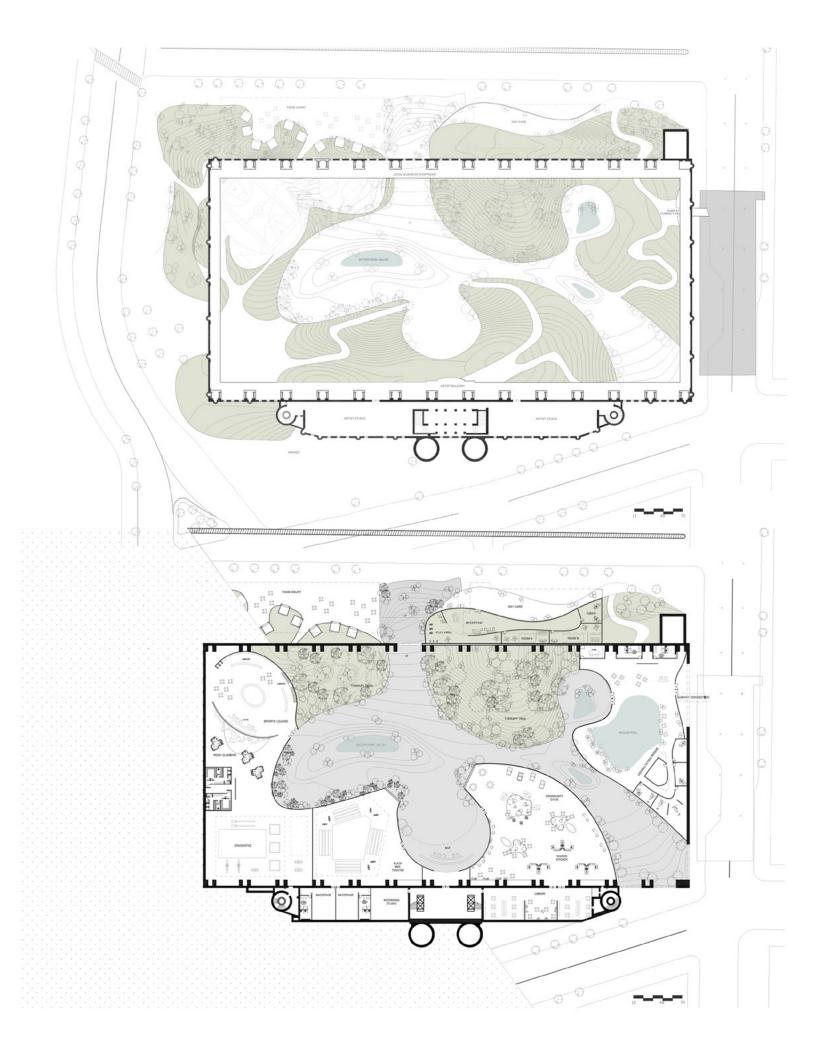
Site - Kingsbridge Armory, Bronx Professor - Laurie Hawkinson Group Partner - Shao-Yu Lu











A vibrant oasis of landscaped hills connect to a water valley where kids can play, therapy gardens for elders tie in between informal amphitheaters for theatrical performances, and a subway station plugs into the adjacent street station.

Imagine taking your evening walk through a contained forest atmosphere, dining at your favorite local business while listening to upcoming artists, sitting atop the landscape volumes to finish a book with panoramic views, or grabbing a drink and watching the local basketball game with your friends.

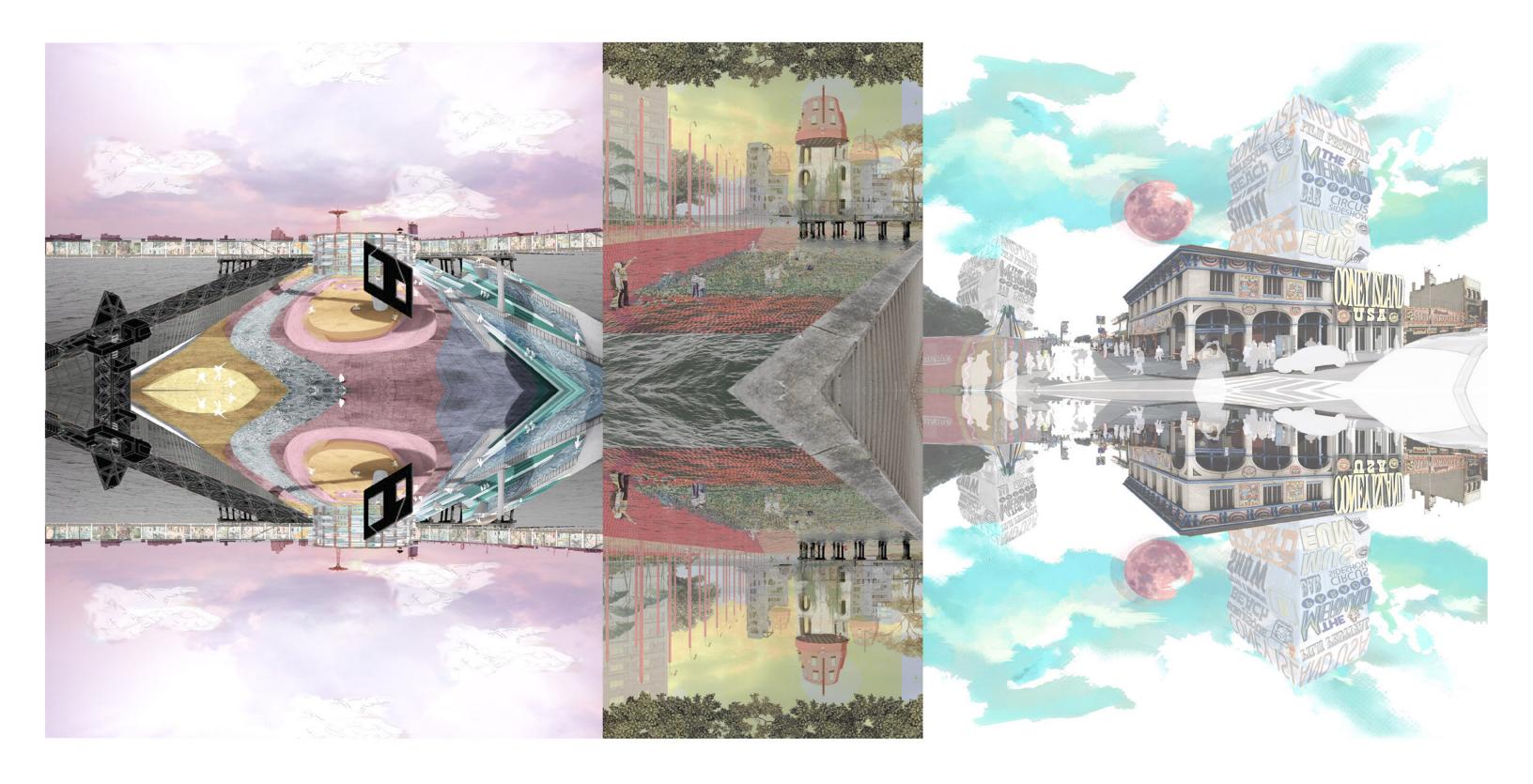
Whether you are making your evening pit stop at the local market or just here to enjoy the feeling of a park indoors, transparent roof panels allow natural light to enter and create an outdoor ambiance within the armory. You can catch a breath of fresh air even when you're indoors, with a park inside the armory!











O3 THE CITY OF MISFITS

A Network of Care

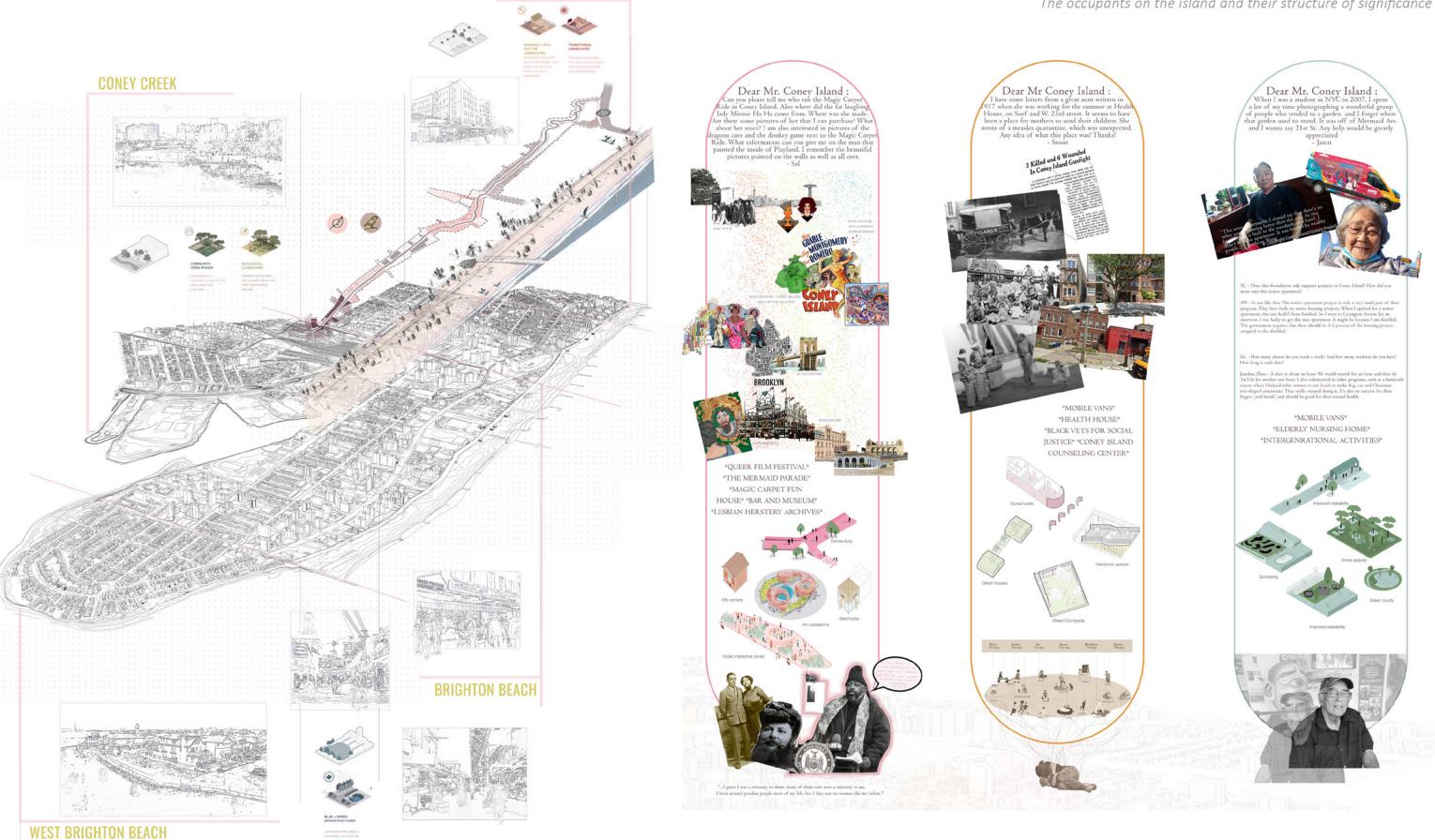
Site - Coney Island, New York City Professor - David Moon Group Partner - Preethi Ganesh

SPECULATIVE ISLANDS OF THE CITY

The City of Misfits transforms Coney Island by caring for both its buildings and its people. It emphasizes community, social justice, and inclusion, not just fixing up structures. The goal is to create welcoming spaces that celebrate diversity and support everyone. Through events and collaboration, it makes Coney Island a vibrant hub where everyone feels valued.

COMMUNITY MAPPING

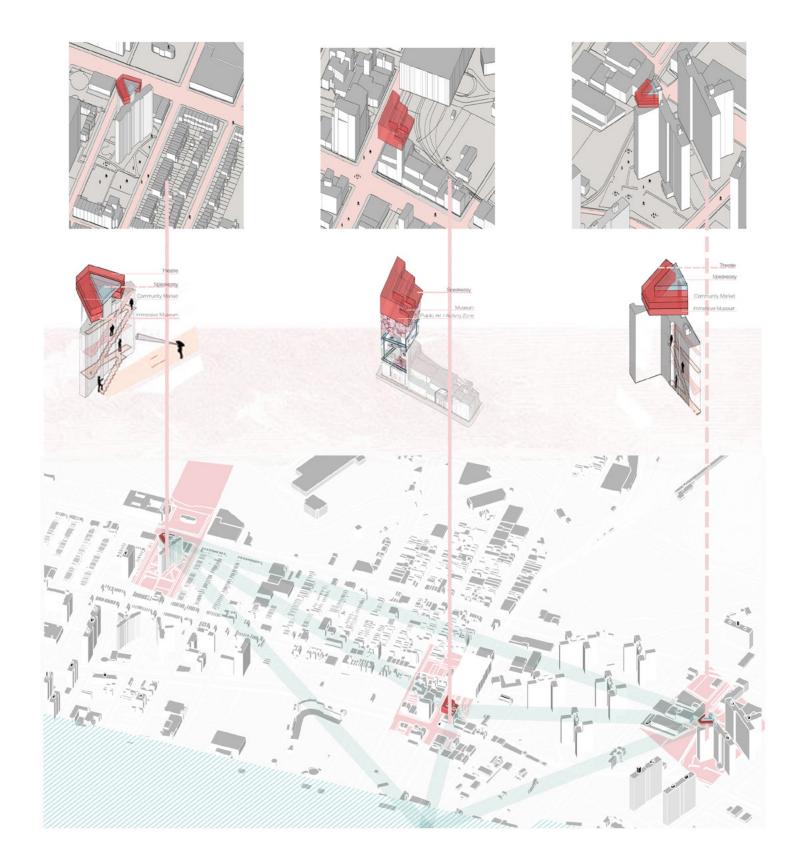
The occupants on the island and their structure of significance

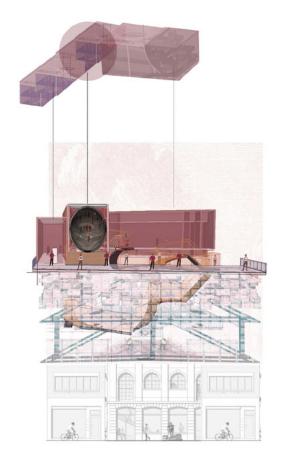


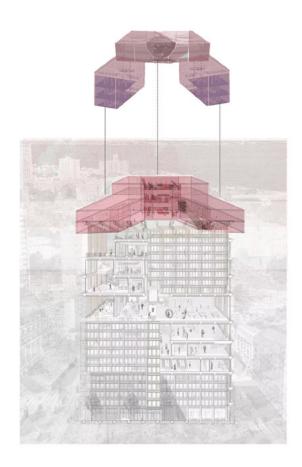
MANHATTAN BEACH

TEMPORAL MARKERS

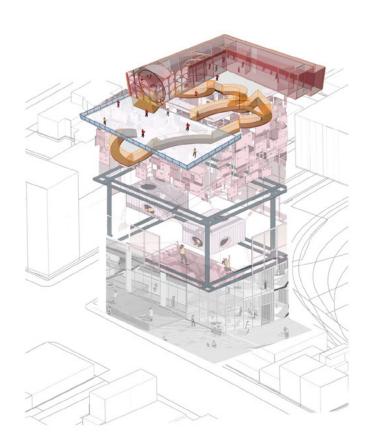
'Markers' act as a visual aid to help the users locate the structures of significance. These insertions and projections are located on existing structures in and around the island

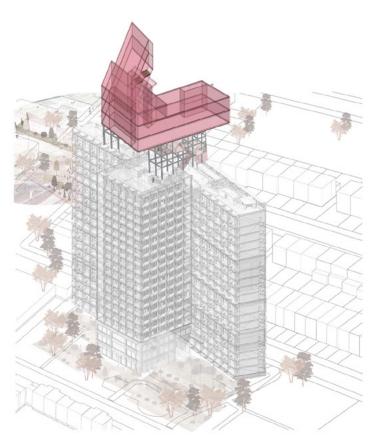






Markers are located on buildings of significance, creating a central node for various communities located on the island to gather. Amenities like Mobine vans and vendor specific street activities create a slow street - making the entrance to the marker open to all!





IMMERSIVE PROJECTIONS

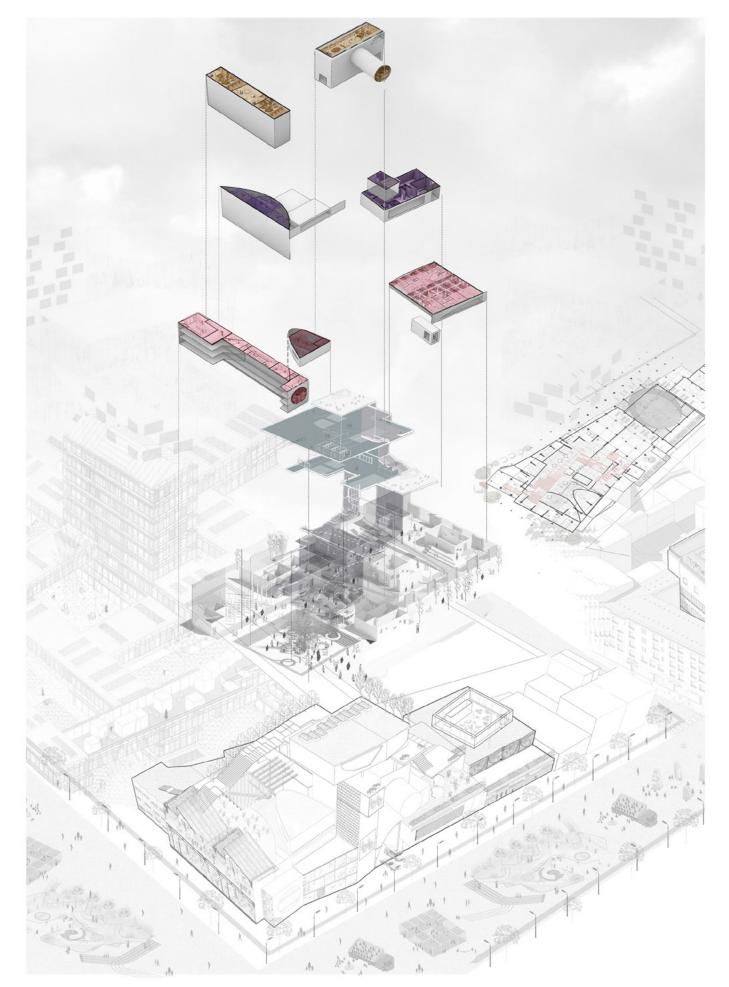
An existing public infratructure - connected to the main subway line and neighboring amenities is fitted with a marker - showing the possibilities of various connective nodes within Coney Island. The juxtaposition of a slow street with the existing structure and marker create new possibilities.









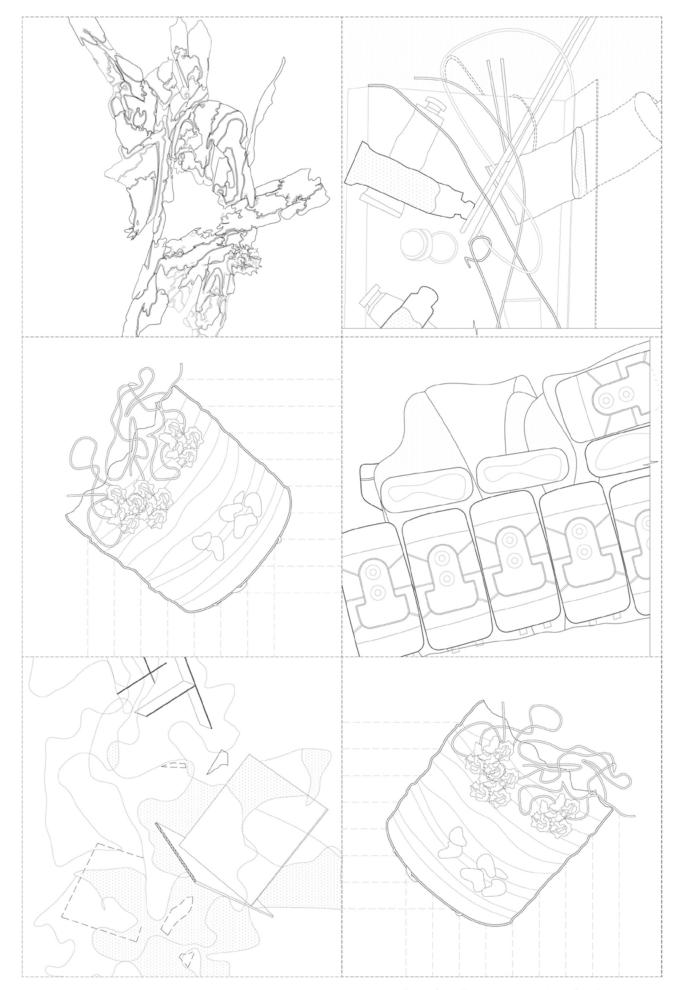


04 **M A K E**

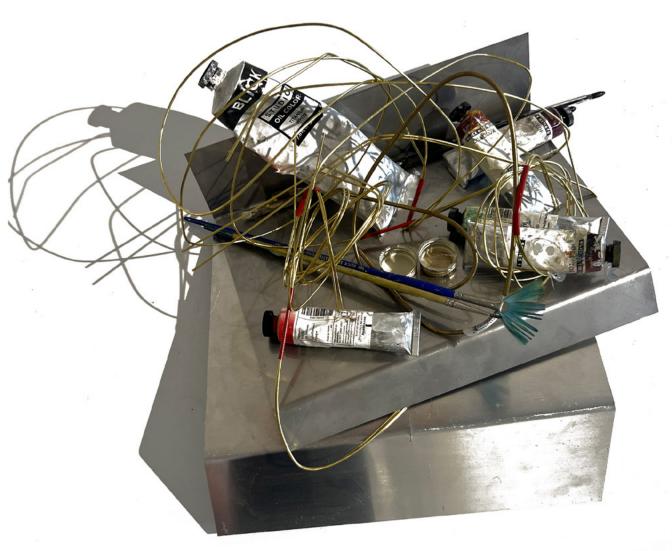
Instructors: Ada Tolla & Guiseppe Lignano
Visual Studies and Represention Elective, Fall 2023

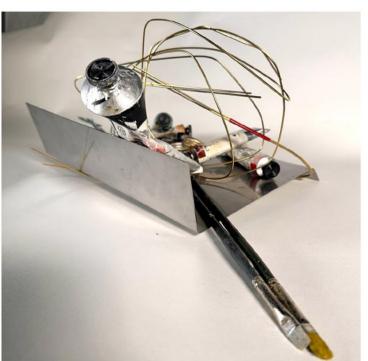
OBJECT INTRIGUE; A Sensory Experience

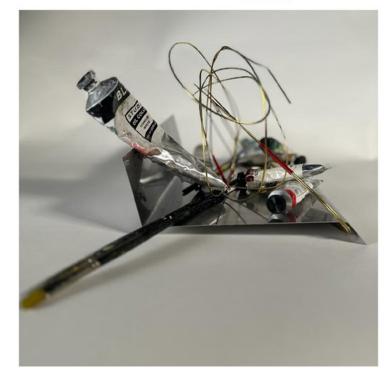
This design intensive explored the power of materiality to evoke emotion and engage the senses through a series of 12"x12"x12" volumes crafted from everyday materials. Interactive sessions fostered a dynamic dialogue, where each volume became a "theatrical recipe" – a playful exploration of form, function, and personal fascination.

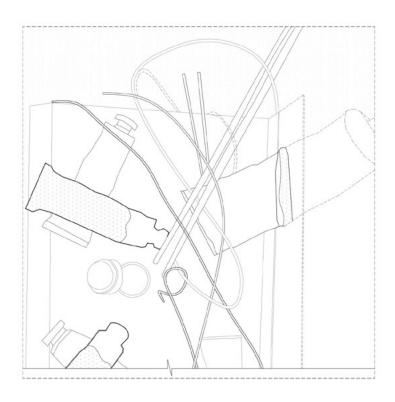


Visual Studies & Representation Elective









CONVERGENCE; metal

A fabricated steel container, formed by two folded plates, serves as a repository for artifacts of artistic endeavors. Five slender paint tubes and a larger one, remnants of a bygone creative period, rest within alongside weathered tools.

Beyond the enclosure, the contents are further protected by a decorative element with symbolic significance. Four, three-foot lengths of gold wire are interwoven, creating a latticed screen across one facade. This functions as both an aesthetic accent and a visual safeguard for the artistic treasures within.

The final details of the assemblage incorporate two bottle caps, salvaged from Amsterdam Avenue. Fixed to the exterior, these caps introduce a narrative element, hinting at past journeys and accumulated experiences. Collectively, these elements create a cohesive composition, a testament to the enduring relationship between materiality and the preservation of memory.



METAMORPHOSIS; wood

Beneath the vibrant canopy of Riverside Drive, a mosaic of fallen leaves caught my eye.

These auburn and ochre fragments, castaways of the seasonal shift, lay nestled amongst the gnarled roots of aging trees. Each leaf, adorned with a tacky residue, whispered tales of summer's warmth and the inevitable approach of winter's chill. Intrigued by their natural beauty, I envisioned a way to capture their ephemeral essence.

Two options wrestled within my mind – to stitch them together, a delicate union of thread and foliage, or to fasten them with pins, a more structured approach. Ultimately, I mirrored the interconnectedness of nature itself. Intertwining the fallen leaves, I wove them into an organic tapestry, a testament to the enduring beauty of the earth. This creation became a symbol of resilience and the ever-changing cycle of life.













DRIFTWOOD; wood

California's coastline coughed up a treasure - a sturdy log, weathered and salty from its ocean voyage. Its surface, like a worn map, hinted at adventures on distant waves. Inspired, I grabbed a box of nails, each a little different, each with its own past.

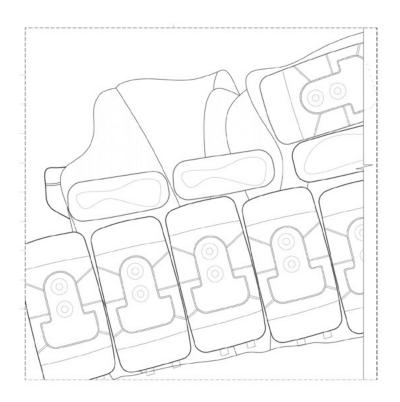
One by one, the nails sank into the driftwood's crevices, some short jabs, some deep dives, all finding a hold in the seasoned wood. Next came the rope, six feet of it, patiently looped and knotted around the protruding nails. With every pull and twist, the rope tightened, testing the combined strength of wood and nails.

The final tug, and the transformation was complete. No longer just driftwood, it was something more - a testament to resourcefulness and second chances. Standing firm against the relentless tide, it held whispers of the sea, a reminder of distant shores and a promise of a fresh start.









DISCARDED TREASURES; plastic

Cardboard boxes at OPS overflowed with spent ink cartridges, their colorful shells a stark contrast to their impending fate – the trash compactor. Each held the remnants of countless printed pages, their potential stories forever silenced.

But amidst, a spark of inspiration ignited. Salvaging a box destined for the same fate, I saw not just plastic waste, but a canvas for transformation. I wove it into a new form, its folds and creases whispering tales of past deliveries.

11 Ink cartridges, once vibrant providers of color, now became the building blocks of a new creation.

Their curved plastic bodies, once cradling ink, were now cradled by the plastic embrace.

This wasn't just a container reborn – it was a defiant stand against waste. In its new form, the cartridges weren't of silenced stories, but of a new chapter – a testament to resourcefulness and the boundless potential found in the scrapyard.

05

HOME IS WHERE THE TOXINS ARE

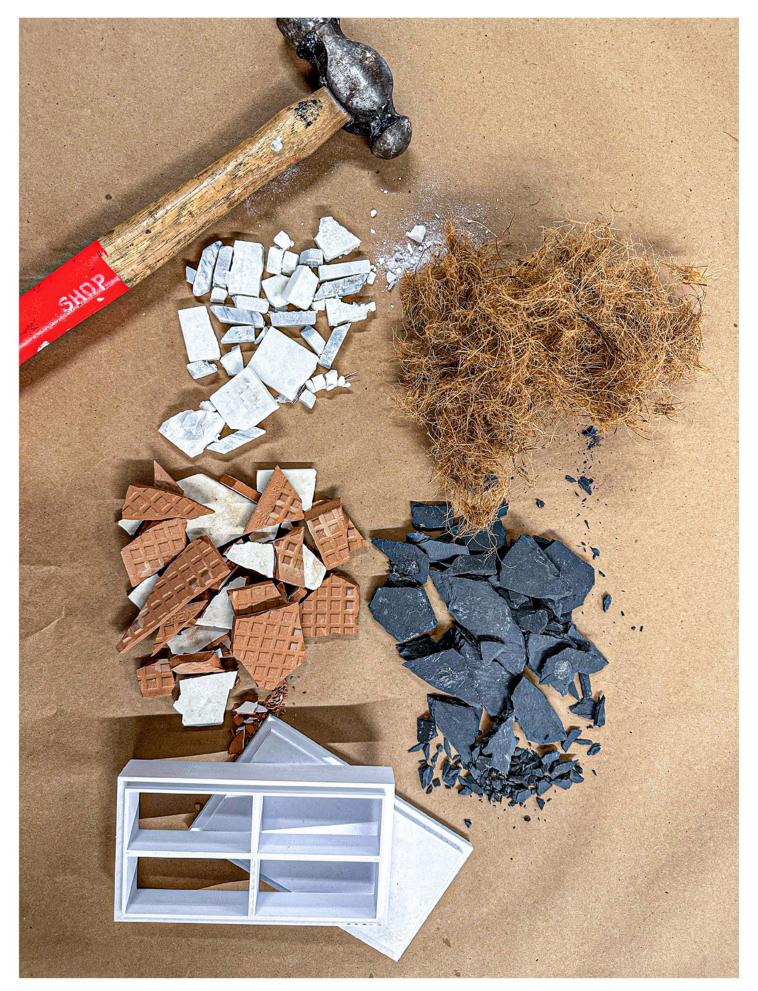
Instructors: Marta H. Wisniewska

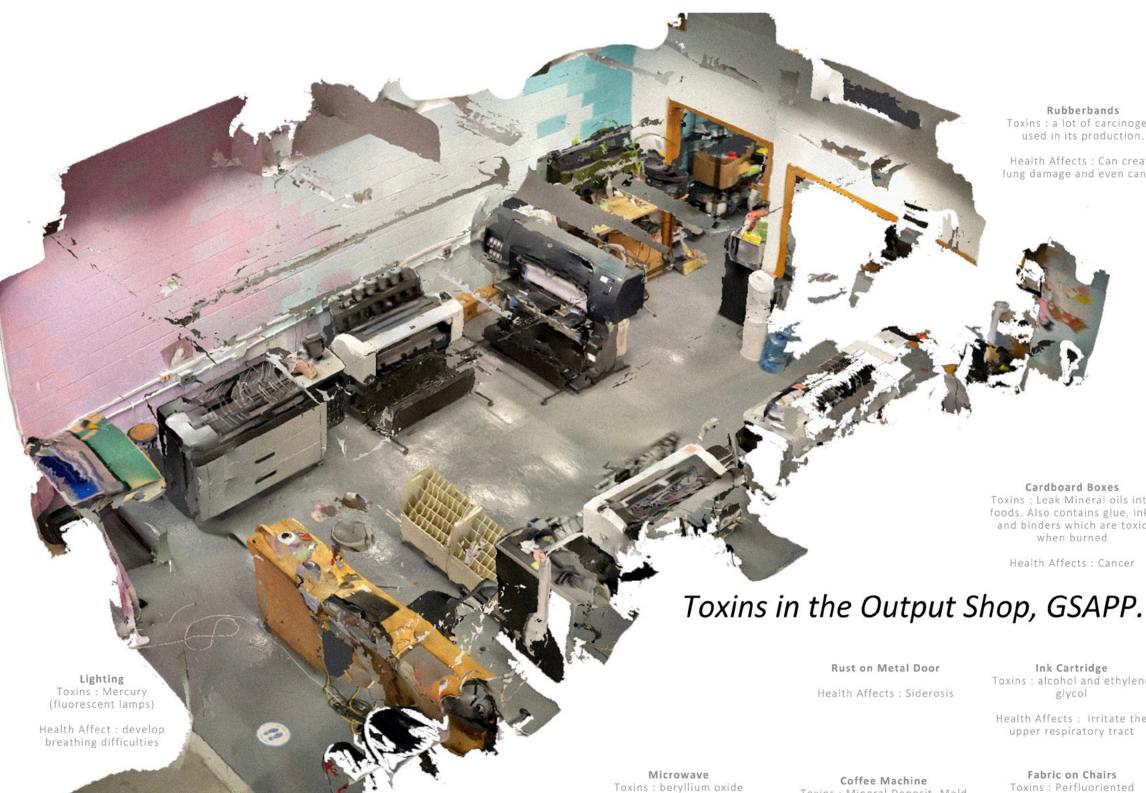
Group Partner- Simar Kaur Kochhar Building Tech Elective, Fall 2023

LOCAL MATERIALS, GLOBAL IMPACT

TOXINS challenged me to explore the intersection of architecture and sustainability. I delved into the complexities of material production and its environmental impact. I was inspired by the potential of innovative, circular materials to address design challenges in the domestic environment.

Through group discussions, We investigated low-tech production processes and connected with local resources. Ultimately, we developed our own response to the initial challenge by designing a unique architectural product that celebrated the identified material. This course combined architectural analysis with material research and design thinking, culminating in a final exhibition showcasing our work.





Plastic Tape

Toxins: phthalates, lead, cadmium, and/or organotins

Health Affects: central nervous system, skin, liver, immune system, and reproductive system.

Piping

Toxins: dioxin and vinyl chloride monomer (PVC manu. and disposal), lead/antimony

Health Affects: Increases a person's risk of developing cancer.

Laminate Surfaces

Toxins: exposure to formaldehyde

Health Affect : Irritation and breathing problems

Metal Cutters

Toxins: chromium (Cr), vanadium (V), molybdenum (Mo) and tungsten (W)

Health Affects: Brain damage, kidney and liver failure.

Printer

Toxins: emits styrene gas when heated at high temperatures

Health Affects : Injury to their nervous systems.

Vinyl Flooring

Toxins: cadmium, toxic phthalates and lead

Health Affects: disrupting reproductive health, causes cancer

Rubber Cutting Mat

Toxins: Fumes caused by VOC's

Health Affects: irritation of the nose, throat and lungs; coughing; difficulty breathing; and sneezing

Paint

Toxins: disrupting reproductive health

Health Affects: headaches, eye watering, dizziness and breathing problems

Wire & Cable Jacketing

Toxins: heavy metals, HFRs. ortho-phthalates (PVC)

Health Affects : damage the liver, kidneys, lungs, and reproductive system.

Health Affects: microwave radiation can heat body tissues the same way it heats food

Wooden Stands

Toxins: Adhesive resin - ureaformaldehyde (UF) or phenol formaldehyde (PF).

Health Affects: cancer of the nasal cavity, sinuses and nasopharynx.

Ink Cartridge

Rust on Metal Door

Health Affects: Siderosis

Coffee Machine

Toxins: Mineral Deposit, Mold

and Bacteria

Health Affects:

Gastrointestinal issue

Fish Tank

Toxins: Ammonia

Health Affects: bacteria and

parasites that can cause skin

infections

Cardboard Boxes

Toxins: Leak Mineral oils into

foods. Also contains glue, inks and binders which are toxic

when burned

Health Affects : Cancer

Toxins: alcohol and ethylene glycol

Rubberbands Toxins: a lot of carcinogens used in its production. Health Affects : Can create lung damage and even cancer

Health Affects: irritate the upper respiratory tract

Fabric on Chairs

Toxins: Perfluoriented compounds (PFC's)

Health Affects: Liver weakness

Cinder Block wall

Toxins: calcium oxide, aluminum oxide, and magnesium oxide, asbestos

Health Affects: Cancer







ALTERNATE BINDER

Five alternative unfired binding materials are chosen with the aim to investigate with different types of material based on clay, limestone, dolomite or basalt

Among the five materials were three fine aggregate powders produced commercially by Agate Minerals, Israel, namely: Kalgir – a mixture of ground limestone and clay, Mamshit - a red clay product, and Motza - a dolomitic clay. The other two materials were waste byproducts of aggregate quarries, designated here as Basalt and Amiad. Amiad is a washout sludge from a limestone aggregate quarry that contains clay and limestone.



through which crops and dwellings can rise out of the ground to support the land and community, before biodegrading and returning nutrients to the soil.

Panels can be made from the textured husks of coconuts. These hardshells, covered with wiry fibres, are typically discarded as part of the process used to produce coconut water and cosmetic products. The return to the communal table comes full circle to represent an important step toward reconnecting the act of eating with acts of food production.



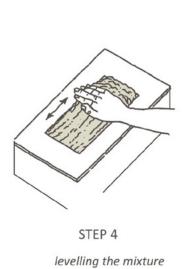
STEP 3

coconut & binder

mixture



compressing the mixture



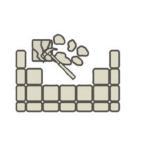
STEP 2

wet mixing

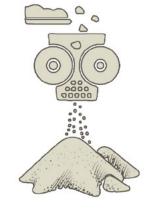




BINDER + FIBRE



a hammer







STEP 1

crushing waste slate
or ceramic tile using

crushing broken flooring tiles to create a powder like consistency

STEP 2

STEP 3
sifting any large chunks

of stone to leave a fine

powder

fine aggregrate

STEP 4

compression

MAKING PROCESS





CUTTING THE FIBRES

CRUSHING THE AGGREGRATE







BINDER OUT OF CLAY, LIME AND WATER

BINDER + FIBRE







COMPRESSED TO REMOVE EXCESS WATER



CLADDING PANELS THE FINAL PRODUCT







06

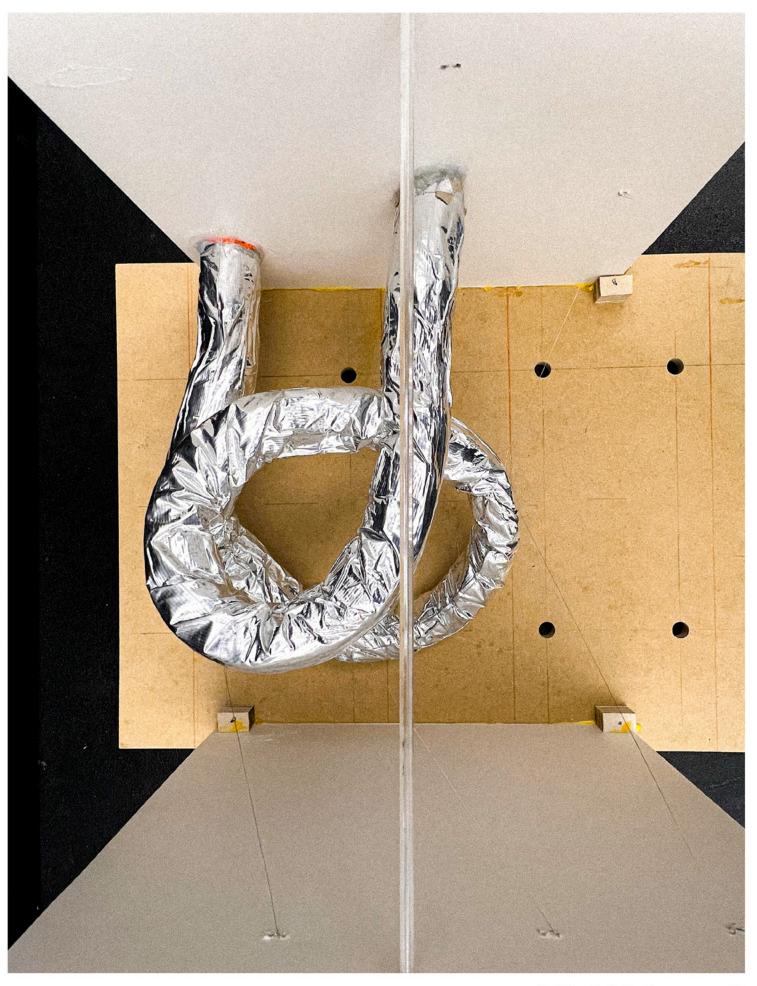
THE OUTSIDE IN PROJECT

Instructors : Galia Solomonoff & Laurie Hawkinson

Collective Work Building Tech Elective, Spring 2024

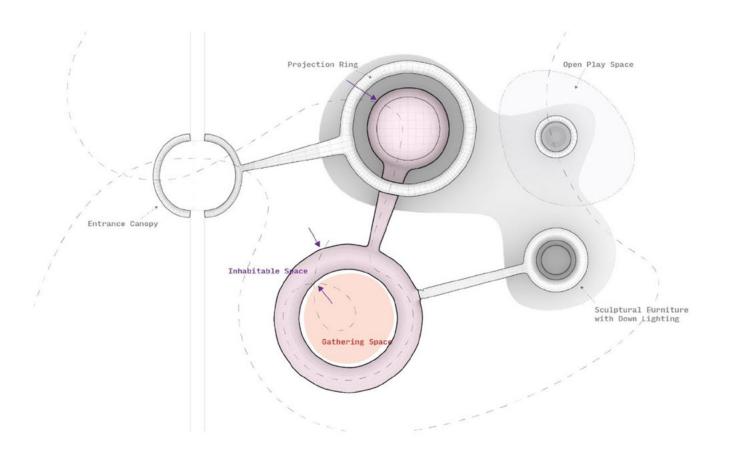
EXHALE; An Inflatable

Exhale is a 2-part student installation that plays with the viewer's perception of geometry and light, and invites a new element of activation and playfulness to Avery Plaza.



Building Tech Elective





THE PROPOSAL

Imagine a giant inflatable, partially placed indoors entering Avery. Inside, different zones offer interactive experiences. The whole installation forms a unique "courtyard" effect, drawing your gaze upwards and encouraging exploration. The inflatable transforms into a collaborative art piece by allowing students of GSAPP project their memories, making it feel like a space you can truly own and interact with.

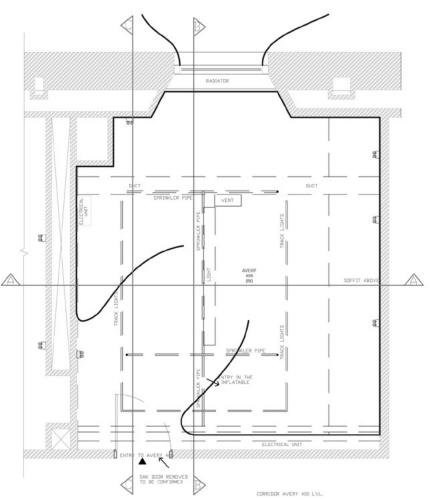


THE DESIGN

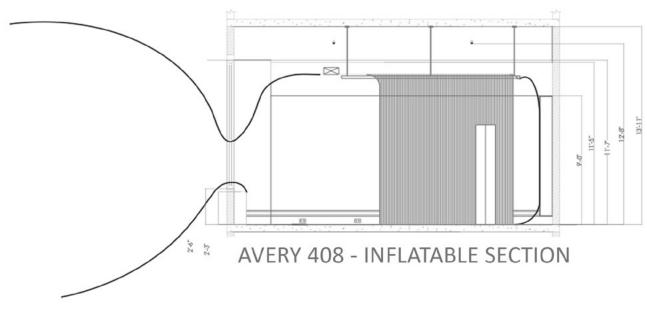
The exterior portion is a 20.39 m long x 19.51 m wide x 7.84 m high inflatable donut powered by 4 blowers, suspended by 16 cables anchored to 4 steel beams in Avery and Fayerweather Halls, and tied to 9 points on the ground in Avery Plaza. A net rests atop the inflatable donut, descending into the center with 8 tube-like appendages that serve as moveable, adjustable seating.

The interior portion is a 6.36 m long x 5.13 m wide x 2.55 m highly interactive installation that extends from the exterior inflatable into Avery Hall, occupying the inside of classroom Avery 408. The materiality is inverted from the metallic exterior to one of darkness and discovery.





AVERY 408 - INFLATABLE FLOOR PLAN







07

EMERGING OPTIMISM

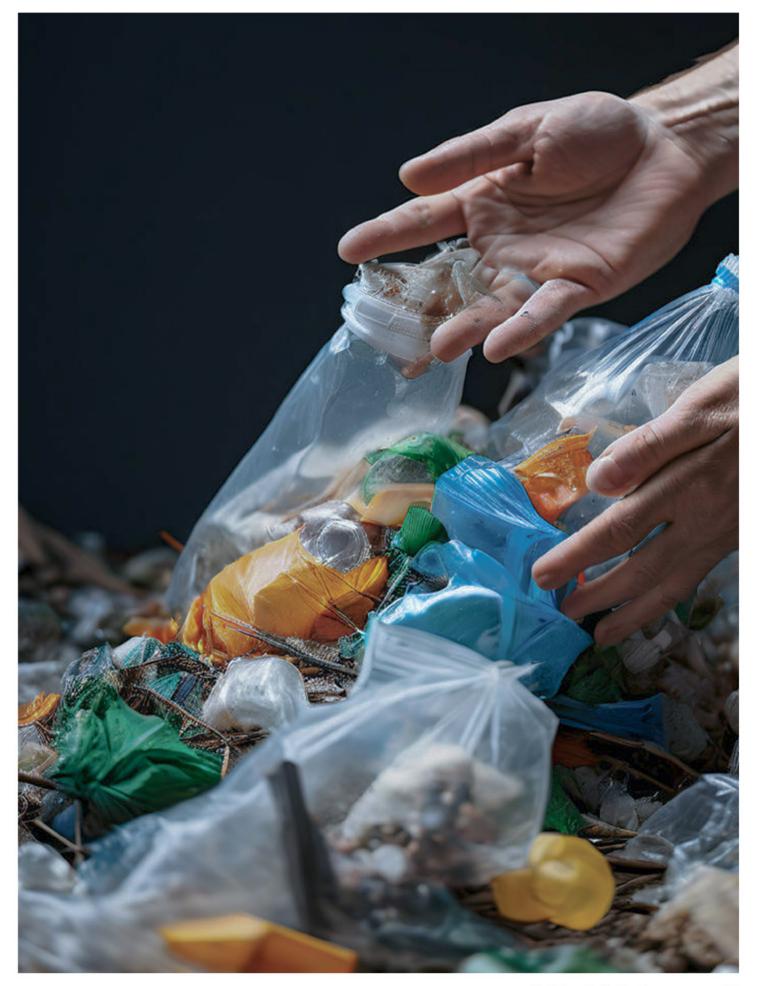
RESOURCES AND THE 4TH INDUSTRIAL REVOLUTION

Instructor : Sean A. Gallagher

Building Tech Elective, Spring 2024

BIO FORGE

A natural solution for our plastic problem





- Offers a sustainable solution for plastic waste management, reducing environmental pollution and promoting a circular economy for plastics.
- Additionally, revitalized brownfields provide valuable land for future development, boosting the local economy and creating a thriving community.



A significant shift in tackling plastic pollution and brownfield remediation. It has the potential to revolutionize waste management, land restoration, and green job creation, paving the way for a cleaner and more prosperous future.

JOBS, JOBS, JOBS!

BIO ENGINEERING

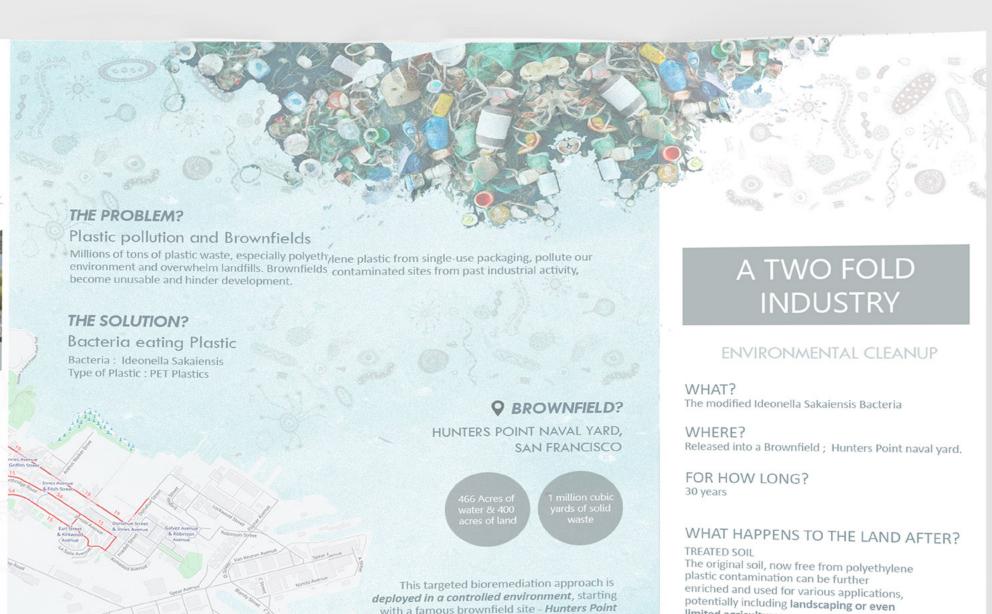
Scientists specialize in maintaining and optimizing the bacteria for efficiency and safety.

RESOURCE RECOVERY

Workers manage the collection and processing of the treated soil and the bio-material.

LAND RECLAMATION

Professionals prepare the brownfield for new development, potentially creating further jobs in construction and other sectors.



with a famous brownfield site - Hunters Point

Naval Shipyard in San Francisco, California.

This former shipyard is a prime example of a

waterfront development.

large, plastic-contaminated brownfield hindering

limited agriculture.

Over the 30 years, the bacteria will have continuously produced a significant amount of the silk-like, biodegradable bio-material. This material can be harvested and processed for use in various sustainable products, replacing traditional plastics.







08

rAADio

season 4 / "What if?"

A podcast produced by the students of AAD

Team : Harshini Ashok, Ammar Hussain, Preethi Ganesh, Vaishnavi Chandra Kumar, Hadass Rozental, Manfei Shi anf Foteini Kallikouni

Episode 1. "Truth or Tale: Post-Colonial Realities"

Where we oscillate between the blurs of fact and fiction in different post-colonial landscapes.

Episode 2. "Sensing Time: Understanding Constructs"

We break down the frameworks that govern our perception of time, as we look at it as a framework of design possibilities.

Episode 3. "Queer Time: Situate in Context"

Where we call it what it is. By "It" we mean our positionalities in situations of conflict and the way we respond to them.

Episode 4. "Psychedelics: Embodiments of Other Constructs"

Venturing into the mind-bending experiences that challenge our conventional ways of knowing and reciprocally produce new ways of physically inhabiting post-Prohibitionist futures.



THANK YOU