

JISOO KIM

Selected Works | Columbia GSAPP MSAUD 22'

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2021 - 2022

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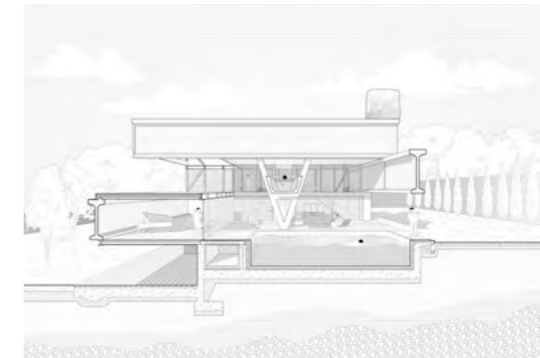
01 A Model for Regenerative Tourism 4p
Carrying Capacity : Caye Caulker Center



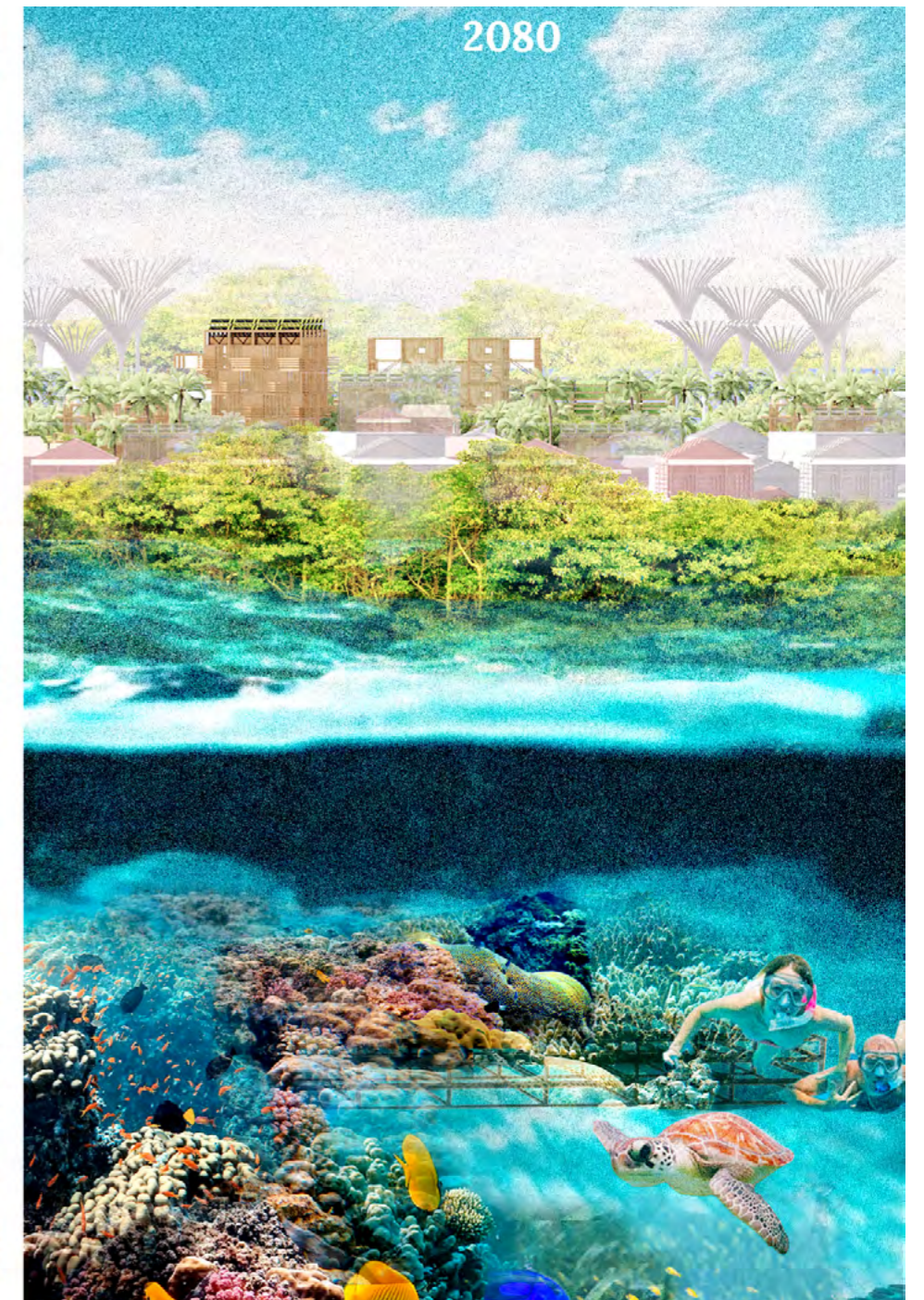
02 Atlanta University DeCenter 14p
Anti-Masterplan: Learning After Property



03 Flushing United 20p
Mobile Intervention encouraging civic participation



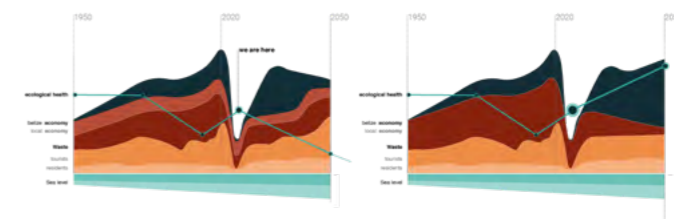
04 Electives 22p



01 A Model for Regenerative Tourism

Carrying Capacity: Center Caye Caulker

Year : 2022 Spring
 Location : Caye Caulker, Belize
 Type : Urban Design
 Category : Academic project (Urban Design Studio 3)
 Instructor : Kate Orff, Thaddeus Pawlowski, Adriana Chavez, Geeta Mehta
 Team Members : Achmad Maulana, Praditi Singh, Javier Ortiz



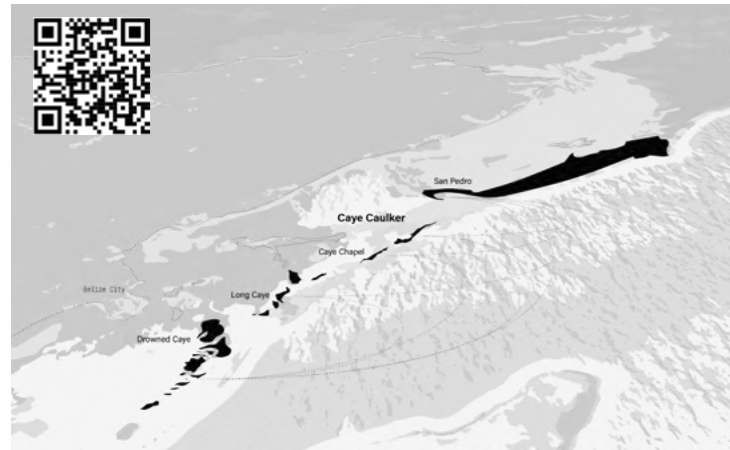
Caye Caulker is a barrier reef island that is treasured by the locals, however, it is on the verge of collapse due to the extractive nature of tourism, so Caye Caulker is a pilot site, with the opportunity to reimagine tourism. Through Design; Carrying Capacity, we envision a new model from extractive to regenerative tourism, where people can come to Caye caulker and be part of the ecological and social restoration model.



Regenerative Tourism : Caye Caulker

This vision accomodates to Sea Level rise by letting it flood; where communities coexist with periodic inundation and provide a relief when there is an excessive buildup of stormwater runoff through interconnected network of bioswales.

The clean energy has taken over the street of Caye Caulker, the biogas and water harvester plant weaves into the urban fabric, as a public space and learning ground. Providing platform for local economy to thrive. Grounding the theme regenerative tourism in day to day experience of people of Caye Caulker.

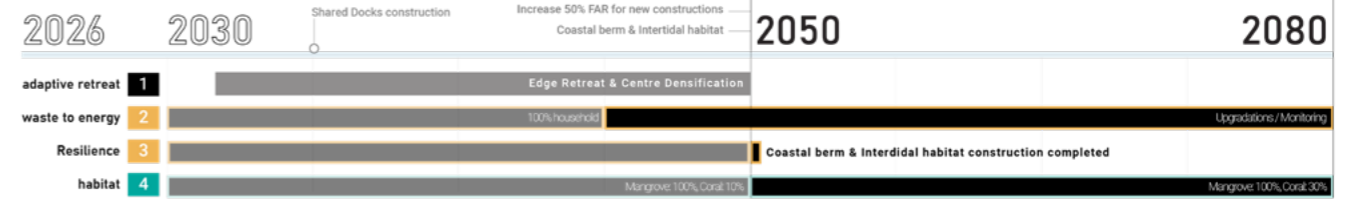
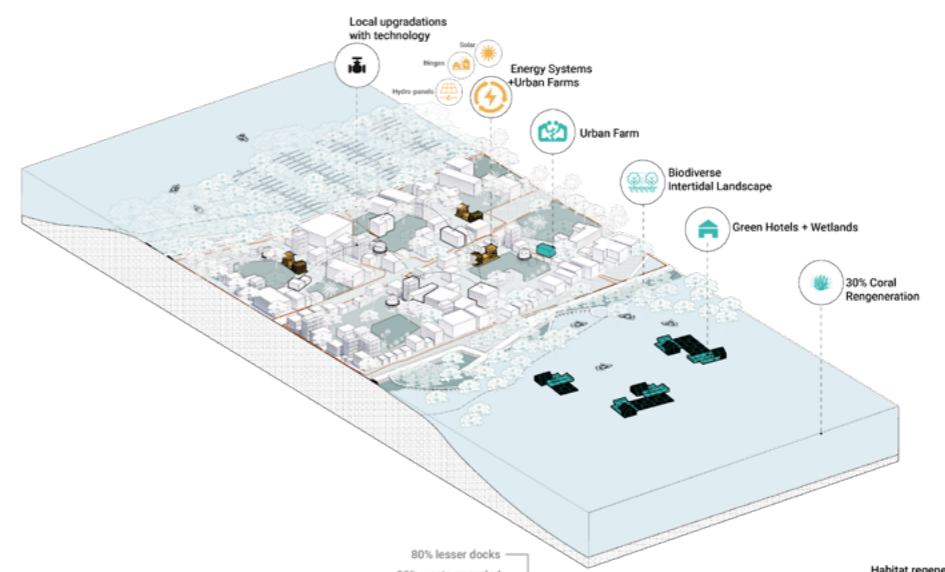
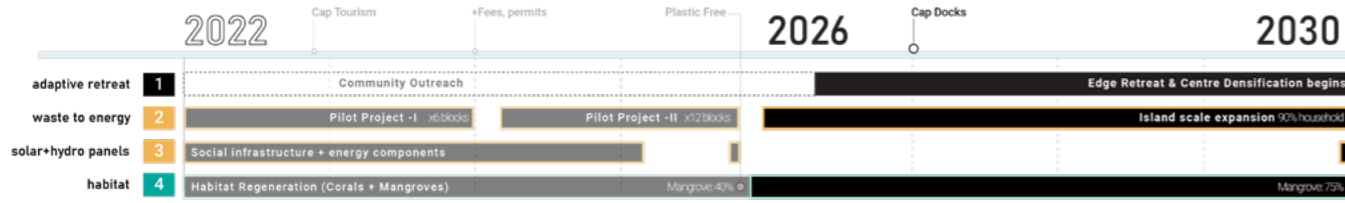
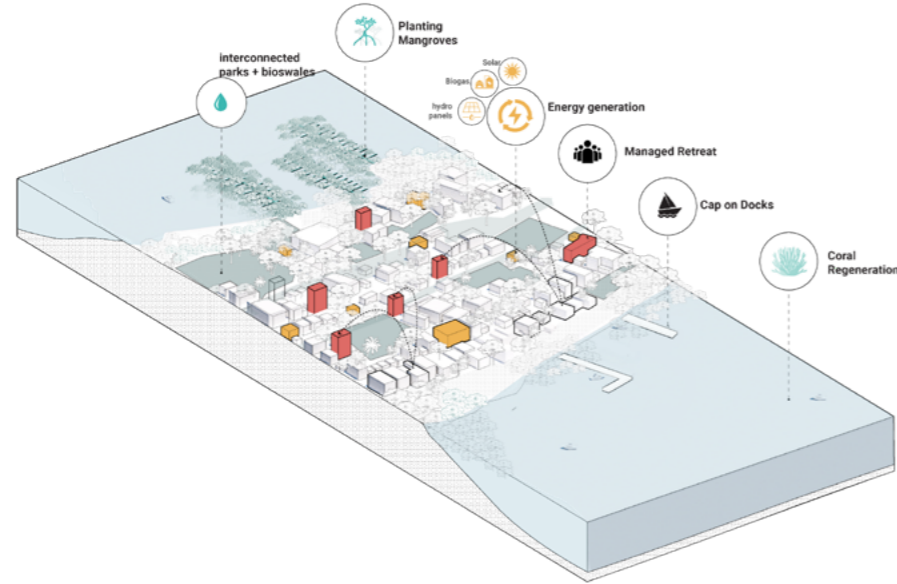
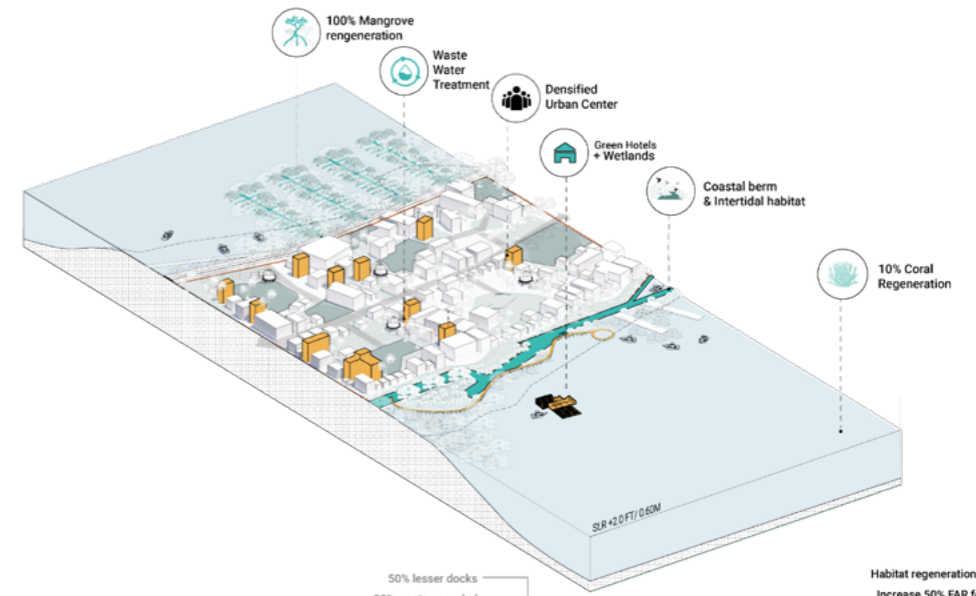
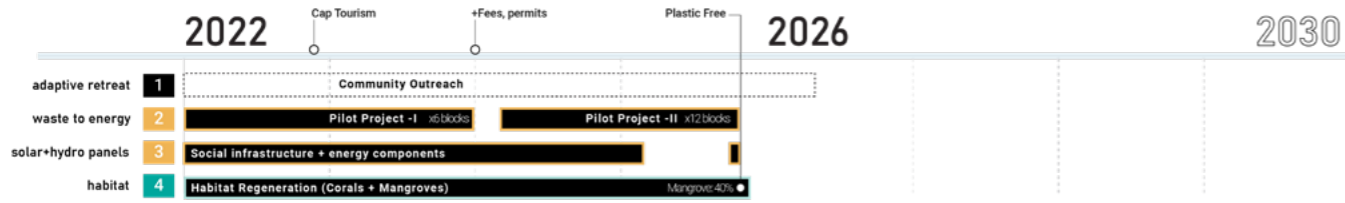
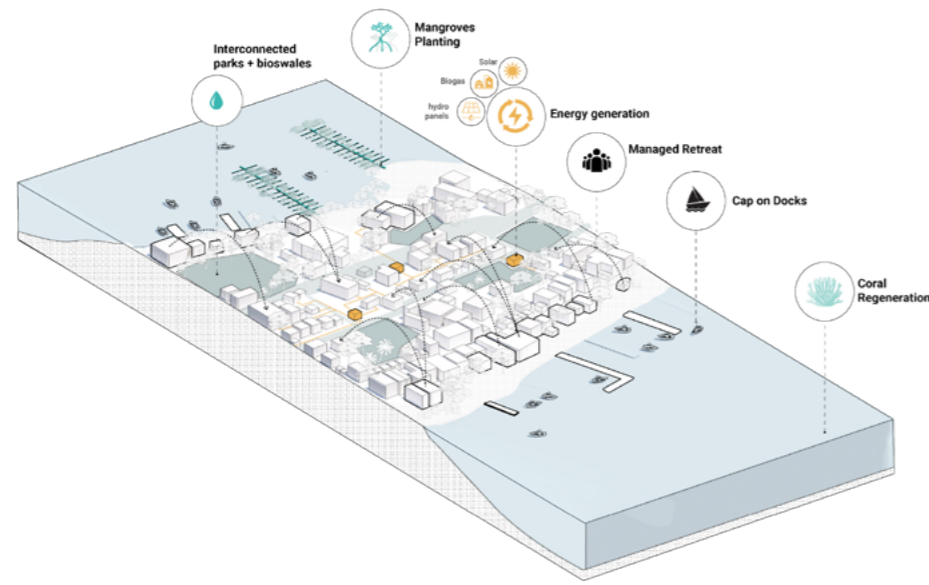


Belize Island Alliance

The Barrier Reef islands are treasured by the locals, and with a key set of interventions. Tourism industry is creating many issues; Overpopulation, loss of habitat, and waste are among the major causes of Extractive Tourism. This leads to the privatization of land and the constant waste being polluted into the water. Tourism is Belize's fastest-growing industry. more tourists visit Belize than Belizeans live in the country.

We need to Flip the Narrative, while we can.





Section : Caye Caulker 2080



marine biodiversity along the barrier reef incorporated with the eco tourism and research activity based on blue economy model.



Site : Caye Caulker



Densed Touristic Spots



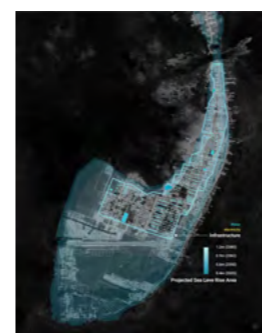
Sea Level Rise



Berm



Infrastructure : Electricity



Infrastructure : Waste/Water



Shared Docks

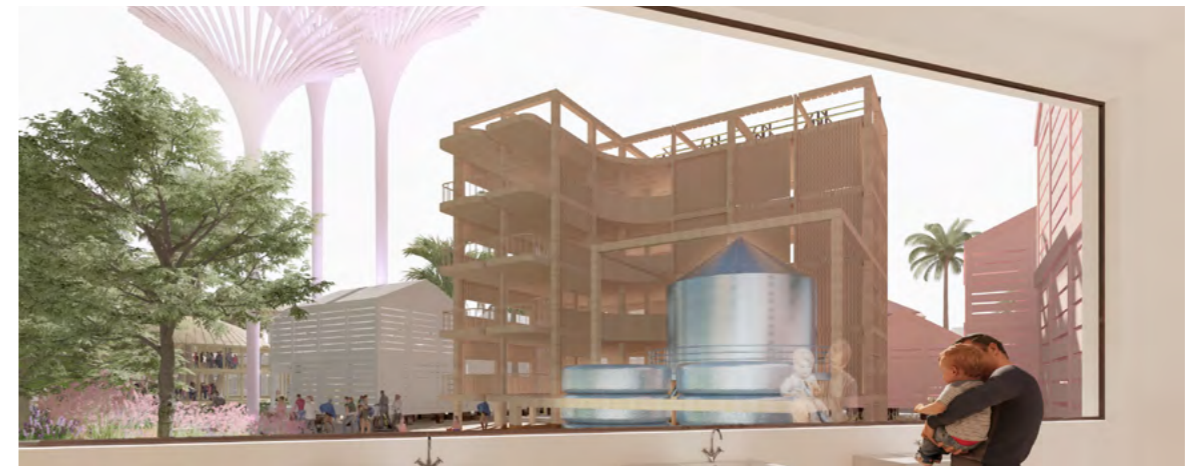


Ecological corridor



Regenerative Unit Systems

So overall, Caye Caulker evolve as model for regenerative tourism, in Community Scales, The component of Regenerative Systems envisions the resilient habitation. The basic principal of the system is the way how densified neighborhood units can be liberated from energy-water-waste-food reliancy.



- Unit Systems
- 1. Ecology
- 2. Water/Waste
- 3. Electricity
- 4. Food



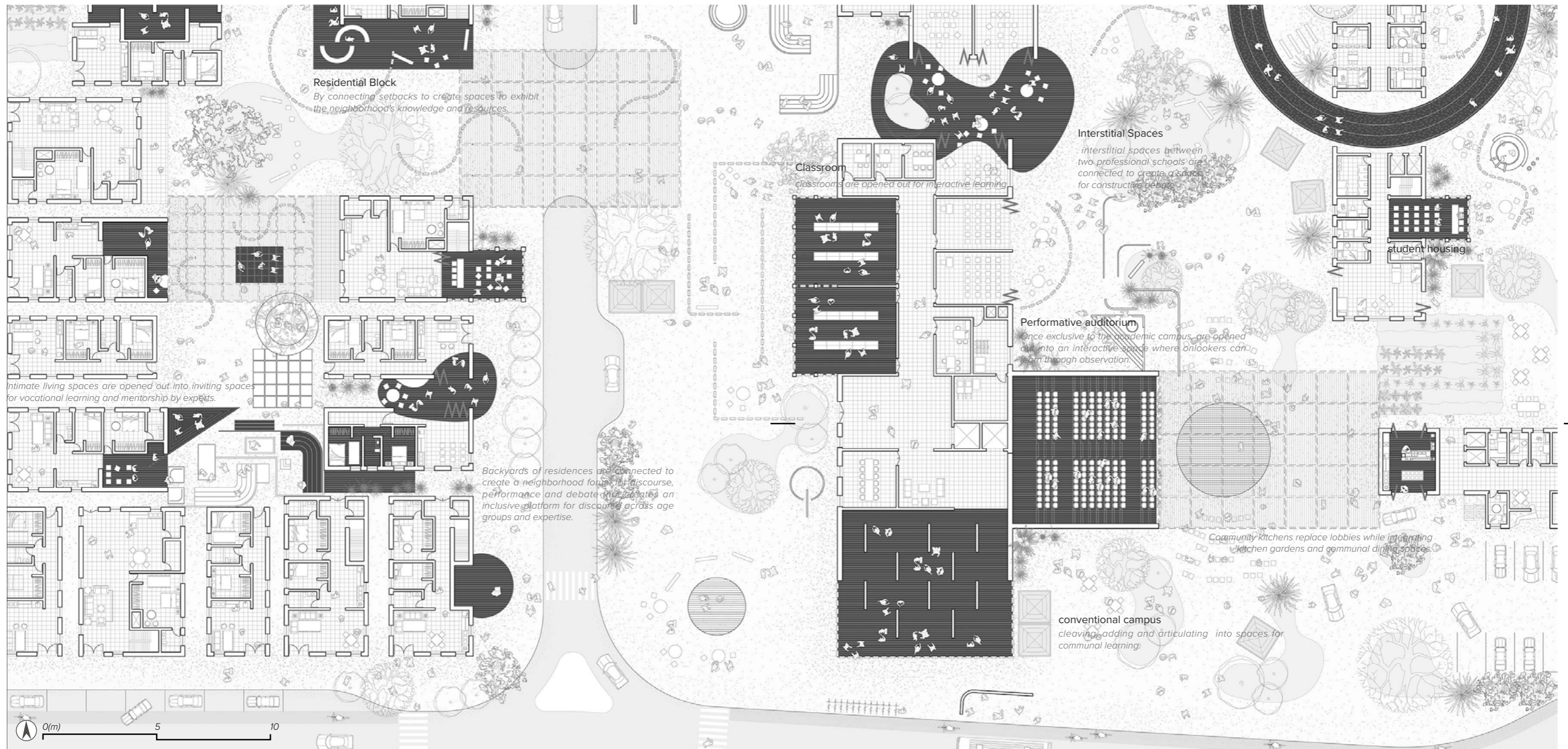
02 Atlanta University DeCenter

Anti-Masterplan: Learning After Property

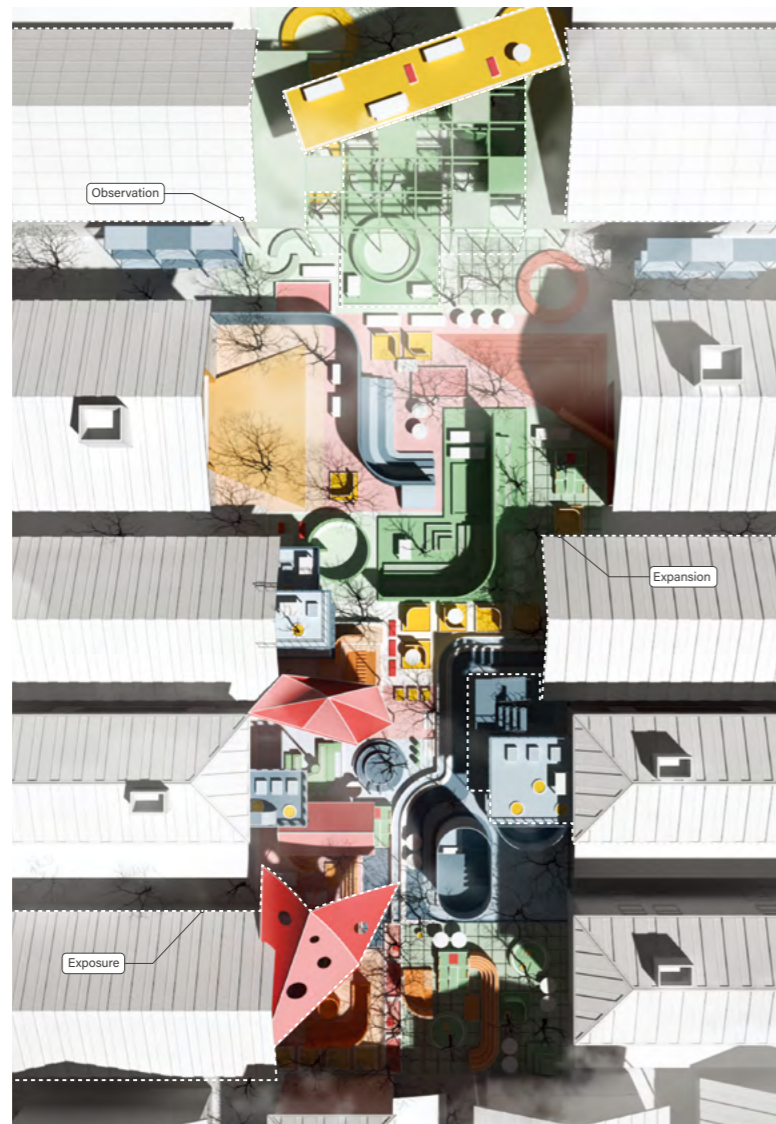
Year : 2021 Fall
 Location : Atlanta, Georgia, United States
 Type : Urban Design
 Category : Academic project (Urban Design Studio 2)
 Instructor : Emanuel Admaseau, Chat Triviso, Nina Johns Cooke, Lexi Tsien
 Team Members : Govardan Umashankar, Lamisa Haque, Changbin Kim



The Atlanta University Center has continually been troubled by lack of endowment, which can be traced back to the discrimination of the educational system and the history of disinvestment in the surrounding neighborhoods. Learning After Property re-appropriates knowledge from structures of power and redefines education's role in society. The Reparations through the dissemination of education is the Atlanta University Center, a consortium of Historically Black College and Uni's that have been key players in racial and educational movements. [Full Description](#)



Spaces are articulated through active participation of community members to transform the urban fabric into inclusive learning environments.



- Learning Moments
- 1. Neighborhood
- 2. Campus
- 3. Highway



Learning Moments After Property

The federal government has decided to address these inequities within the education system by injecting resources as reparations by disseminating education to the neighborhoods and the AUC. AUC acts as an agent along with local activists and organizations, to disperse federal endowment to the university and the surrounding neighborhoods.

Spatial boundaries are deconstructed to create more equitable spaces of learning. These interventions mediate the dispersion of education throughout the city and expand the definition of knowing by absorbing and validating forms of learning which have been actively excluded from the institutional structure. Interstitial spaces of learning are negotiated with neighborhood organizations that act as agents to distribute the reparation funds and resources. Resources are dispersed based on the nuance local knowledge of neighborhood organizations and activists.

Atlanta University Center will redefine the relationship between the city and University
Promoting vibrant possibilities of learning.





Flushing United

Mobile Intervention encouraging civic participation

Year : 2021 Summer

Location : Flushing, Queens, New York City, United States

Type : Tactical Urbanism

Category : Urban Design Studio 1

Instructor : Nans Voron, Sagi Golan, Tami Bahn, Austin Sakong, Jay Shin, Galen Pardee, Sean Gallagher, Candelaria Mas Pohmajevic

Team Members : Kenny Zhou, Rotina Tian, Sydnee Sampson

From Top left,

01. 1:100 mock up

02. 1:1 mock up

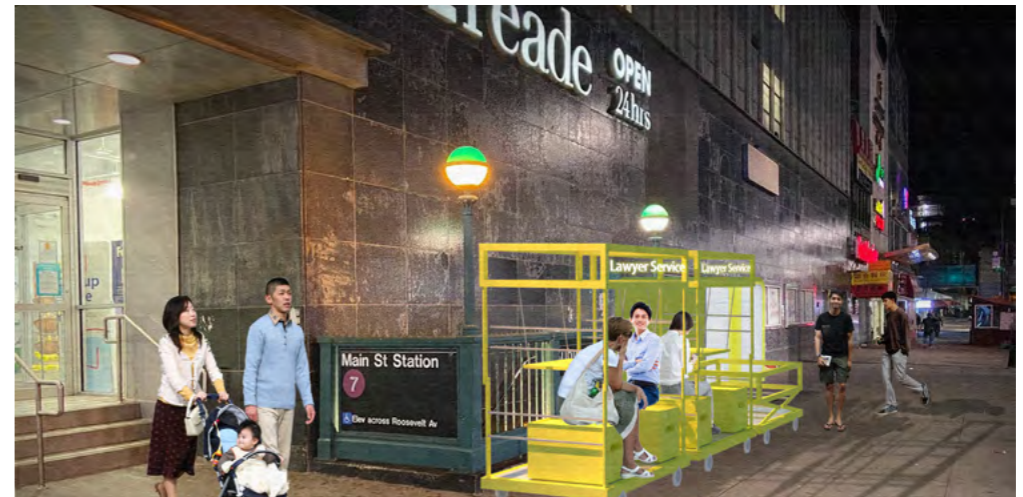
03. Maple Playground

04. PS21

05. Roosevelt Avenue

06. Main Street Station

There are lots of socio-economic issues that affect immigrant-heavy Flushing, and vulnerable populations are especially at risk barriers to effectively obtain help include low English proficiency, low voter participation, non-citizens unable to obtain services, the elderly, and low-income families unable to participate due to family and occupational duties. Among other residents, many are either unaware of the issues or don't care about them. Instead of people having to go somewhere to get help, we bring inclusive, personal, and accessible civic participation to the people. Together, Flushing United allows residents to have a say to shape the future of their neighborhood.



A Safe Playground For All

Evaluating Visual Safety of The Bloomingdale Playground at 104th Street Broadway

Year : 2022 Spring
 Location : Bloomingdale Playground, New York City
 Type : Urban Analysis
 Category : Datamining the City
 Instructor : Richard Chou
 Team Members : Junho Lee, Achmad Maulana

This project aims to explore the visual coverage and reachability coverage, within reasonable timing, in place(s) with high traffic pedestrian movement that require moderate to high level of security due to its nature of activities. In this exercise we take children playground as our case study for our analysis to measure and evaluate the level of safety by factoring the visual coverage and reachability of the existing design. We use pedestrian flow analysis and visual analysis in our study. We evaluate the high traffic area within the playground to create a "heatmap" of activities, comparing against the location of benches, where the guardians would sit and monitor the kids activities.

<https://medium.com/data-mining-the-city-2022/a-safe-playground-for-all-e2d046a28a16>

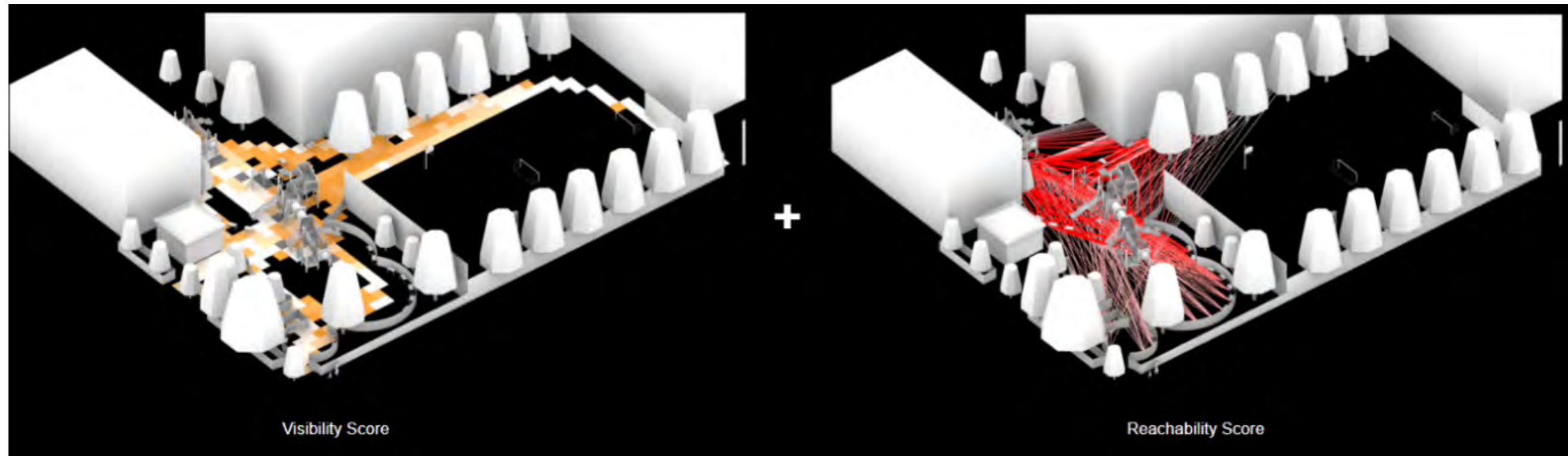
Key Takeaways

Safety measure — in places like playground we need to make sure that placement of safety features are placed strategically

Placement of benches and amenities — By understanding the pattern of activities, placement amenities and benches can be strategically located to ensure an even coverage especially for area

Efficiency — From the simulation we understand that some benches are not strategically located thus may not need to be placed there, so we can be more efficient in procuring the street furnitures

Applicability — The strategy can be applied in situation that need safety measure and/or surveillance with high traffic of movement (public pool, campus ground, fair grounds, etc)



Visibility

Reachability

Top 10 Dense Area

Isovist form Benches

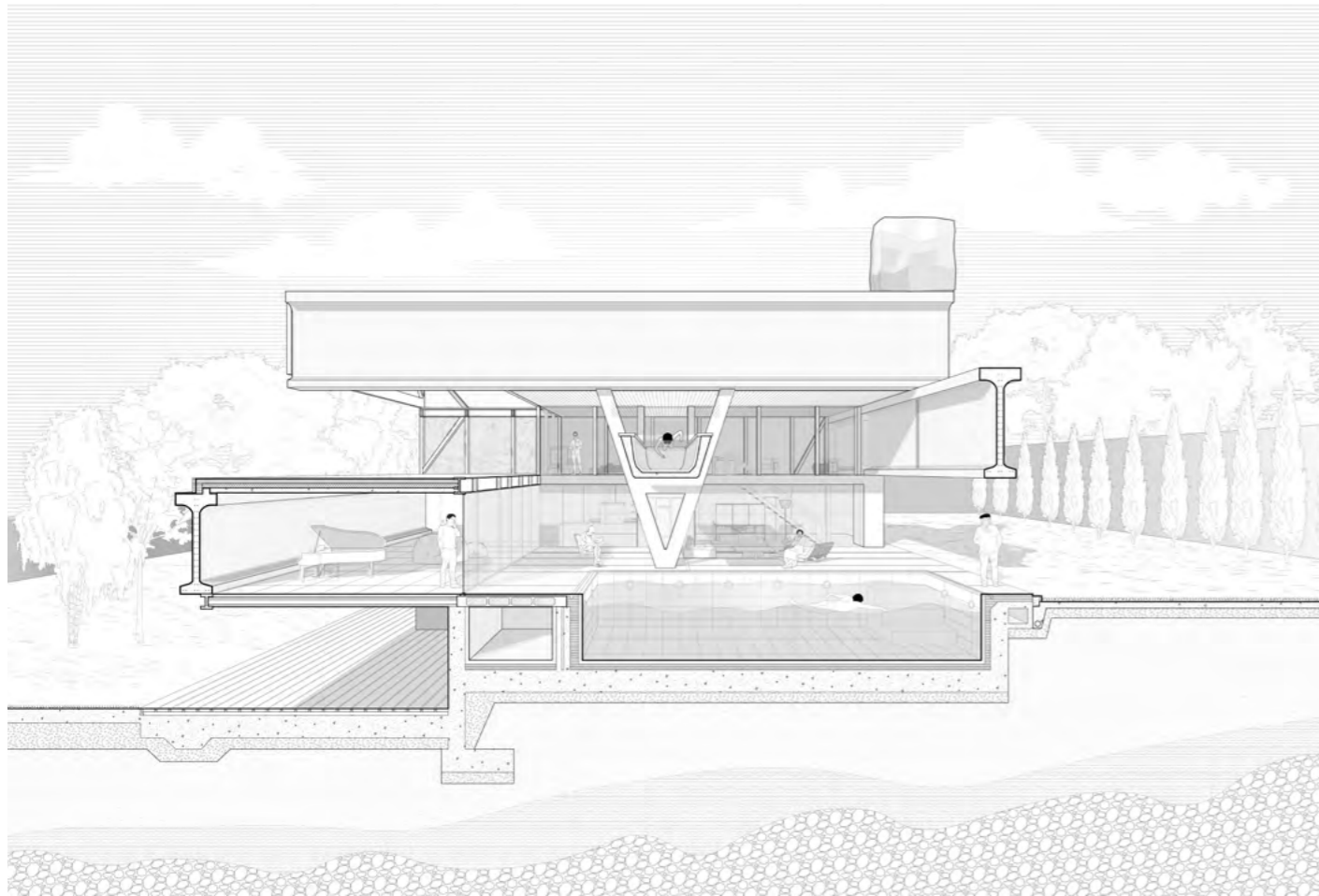
Overall Score

Hemeroscopium House

Seminar of Section

Year : 2022 Spring
 Location : Madrid, Spain
 Type : Sectional Study
 Category : Seminar of Section
 Instructor : Marc Tsurumaki

The goal of section studies for Hemeroscopium House is analyzing the structural logics which are fabricated by abnormal size structures that are not conventionally used in house constructions. Unbalanced Structural symmetries shown in the drawing are stabilized by leaning on and supporting to each other structures, and eventually make the equilibrium.



Front view section shows the structural logic of Hemeroscopium House



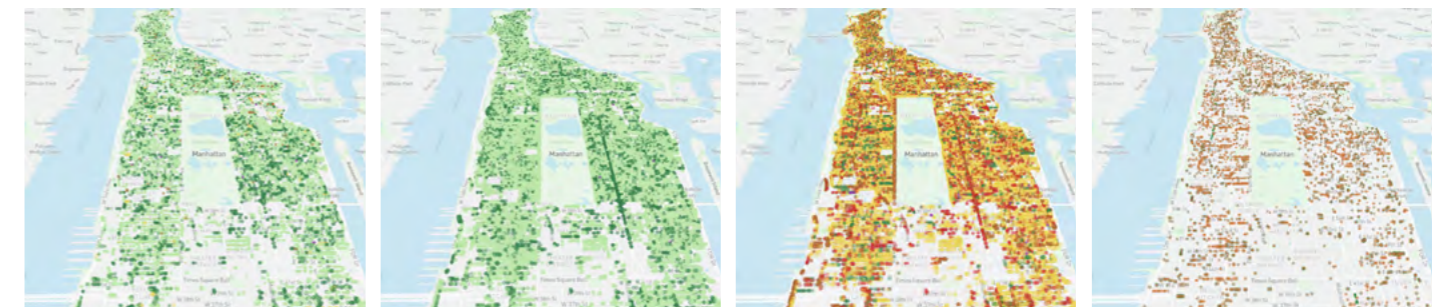
Instead of using columns, Architect used the bigger scale construction materials.

The Beauty of Street Trees

Educational website for exploring Street Trees

Year : 2021 Fall
 Location : New York City
 Type : Website (Javascript)
 Category : Data Visualization for Architecture, Urbanism, and the Humanities
 Instructor : Jia Zhang
 Team Member : Shinan Liu

https://centerforspatialresearch.github.io/fall2021_data_visualization/final/trees/index.html



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