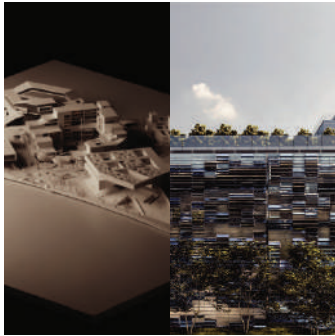


Portfolio  
2025

Fabiana  
Semprun



*Aquanix*



*The Nodal City*



*Forests&Fields*



*TMS Office*



*Tetriskase*



*Other Interior projects*



## Aquanix

*Floating city*

---

### Location

New York, United States

### Scope

Urban design & Architecture

### Status

Conceptual Design

### Size

18600 square feet

### Year

2024

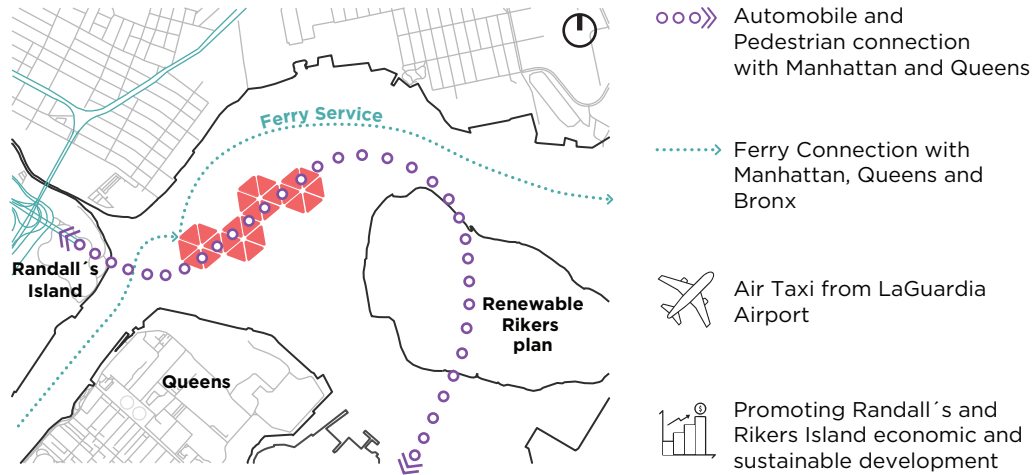
### Collaboration on

Bridge and SkyPark Platform

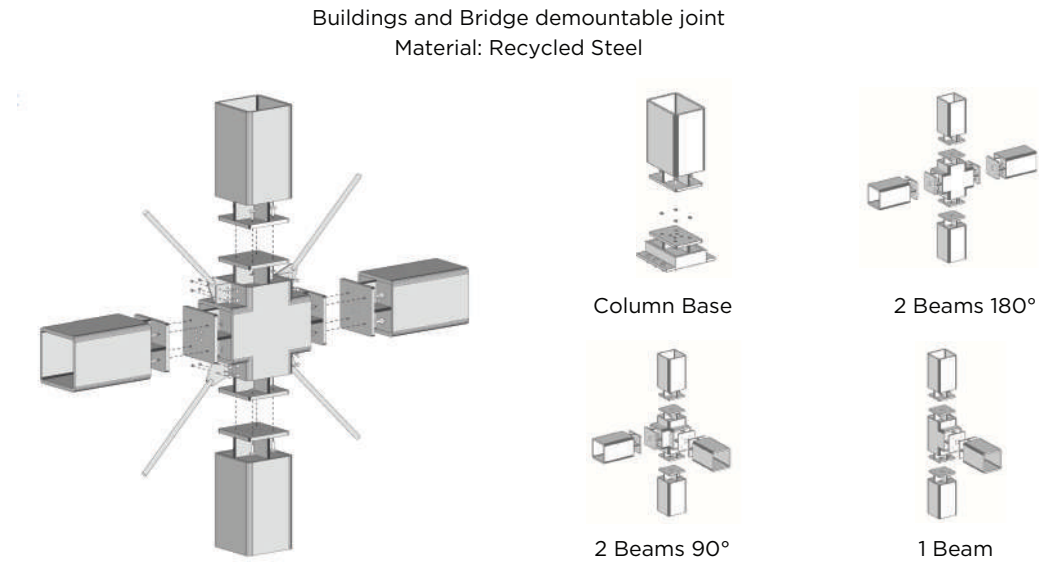
Guided by mentors from BIG, Zaha Hadid Architects, Foster + Partners, and Gensler, Aquanix was conceived as a visionary response to rising sea levels in New York City. Rooted in sustainable design principles and human-centered approaches, the project integrates innovative solutions to create a resilient and adaptive urban environment, redefining the relationship between architecture and water.



# THE PERFECT LOCATION FOR INNOVATION

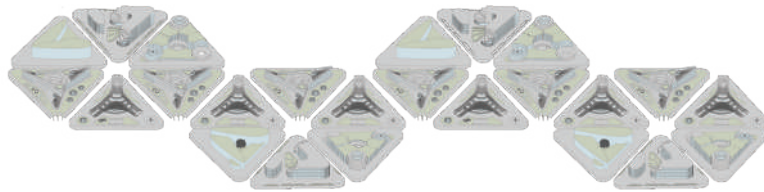


# BUILDABILITY - BRIDGE AND PLATFORM STRUCTURE



# MASTERPLAN COMPOSITION

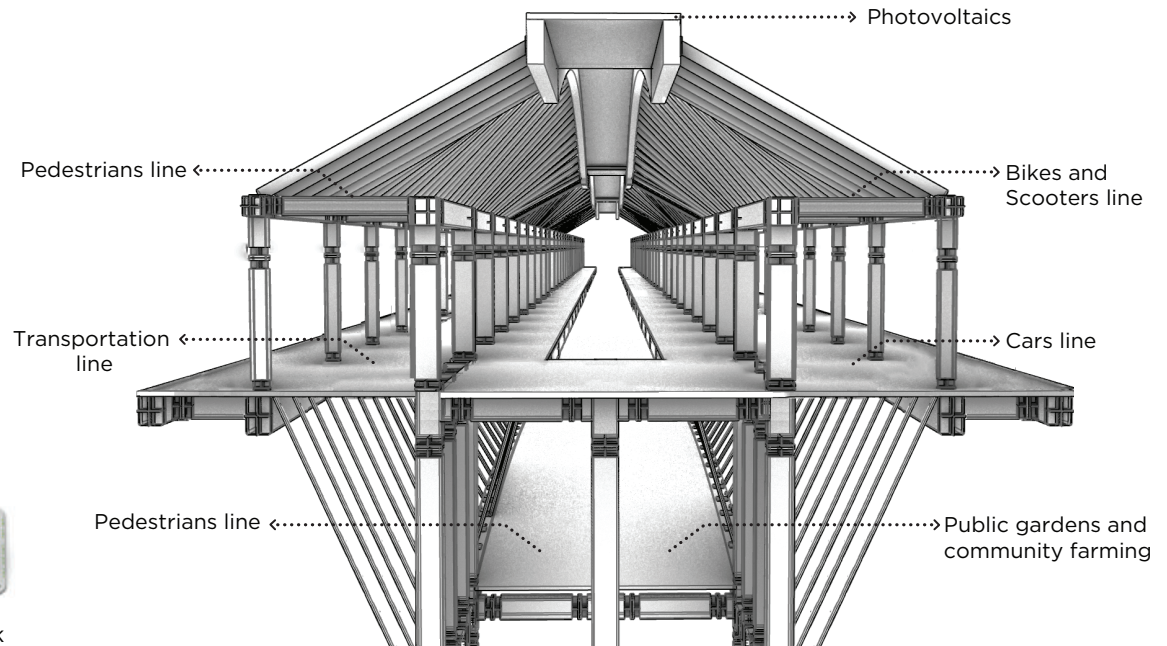
1  
Innovation District



4  
Villages



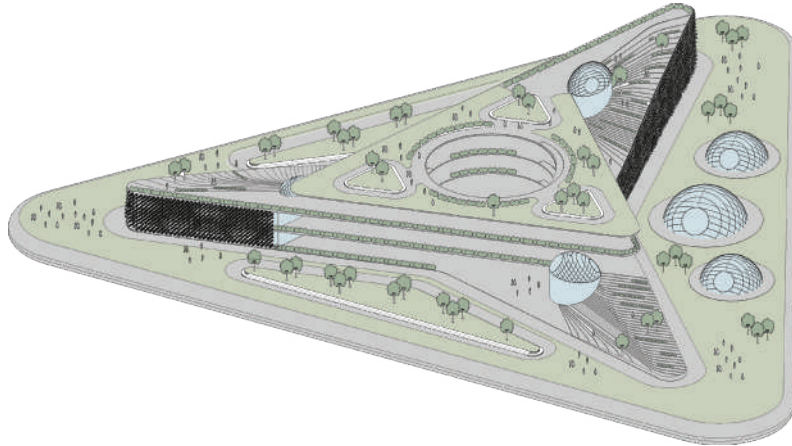
5  
Platform Types



# SKYPARK PLATFORM

**SkyPark**  
Corporate and Commercial  
32,000 sqm

Technology and Innovation Centers 4,000 sqm
Retail / Commercial 5,000 sqm
Office spaces 7,000 sqm



## BUILDING SUSTAINABLE MATERIALS

### STUFF

Mycelium, Bamboo, Cork, Recycled Wood, Recycled Plastic, Hemp, Organic fabrics

### SPACE

Bamboo, Cork, Reclaimed Wood, Recycled glass, Recycled Metal, Natural Stones

### SERVICES

Renewable Energy, Water Management, Waste Management, Urban Agriculture

### STRUCTURE

Recycled Steel, Green Concrete

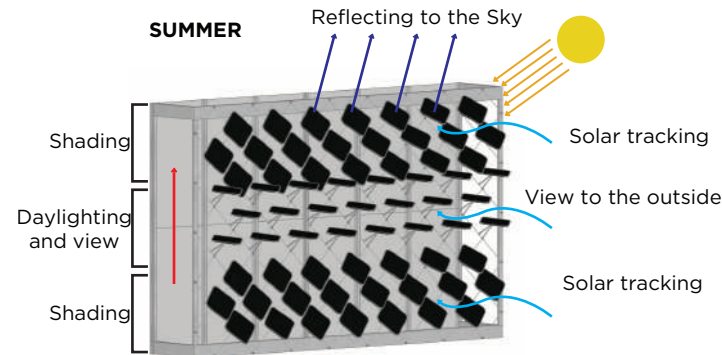
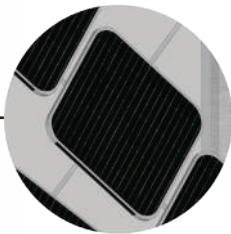
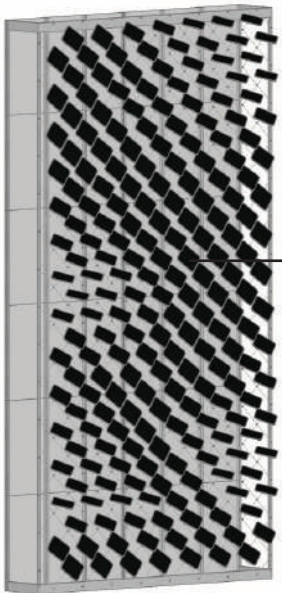
### SKIN

Recycled Steel, Recycled Glass, Automated Solar Panels

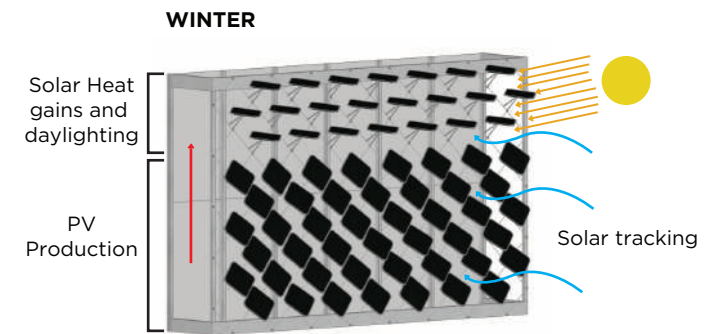
### SITE

Recycled Steel, Green ConcretePlastic

# FACADE SYSTEM

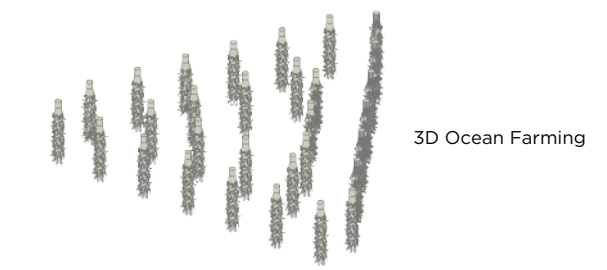
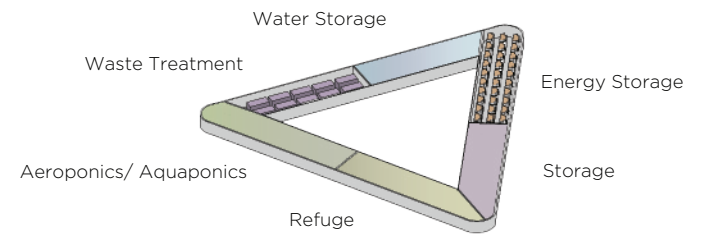
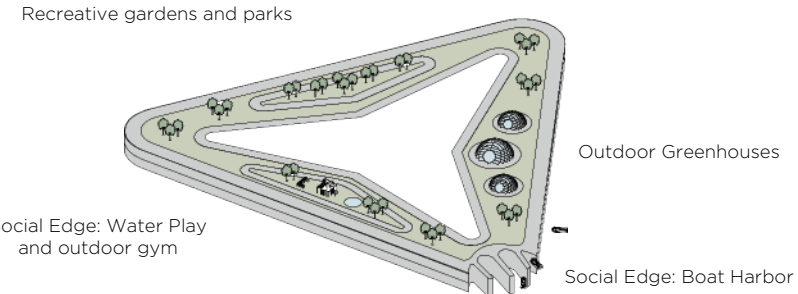
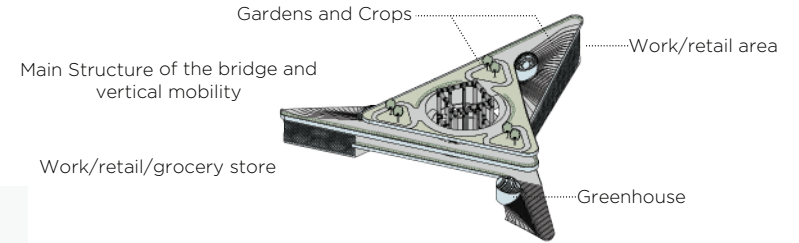
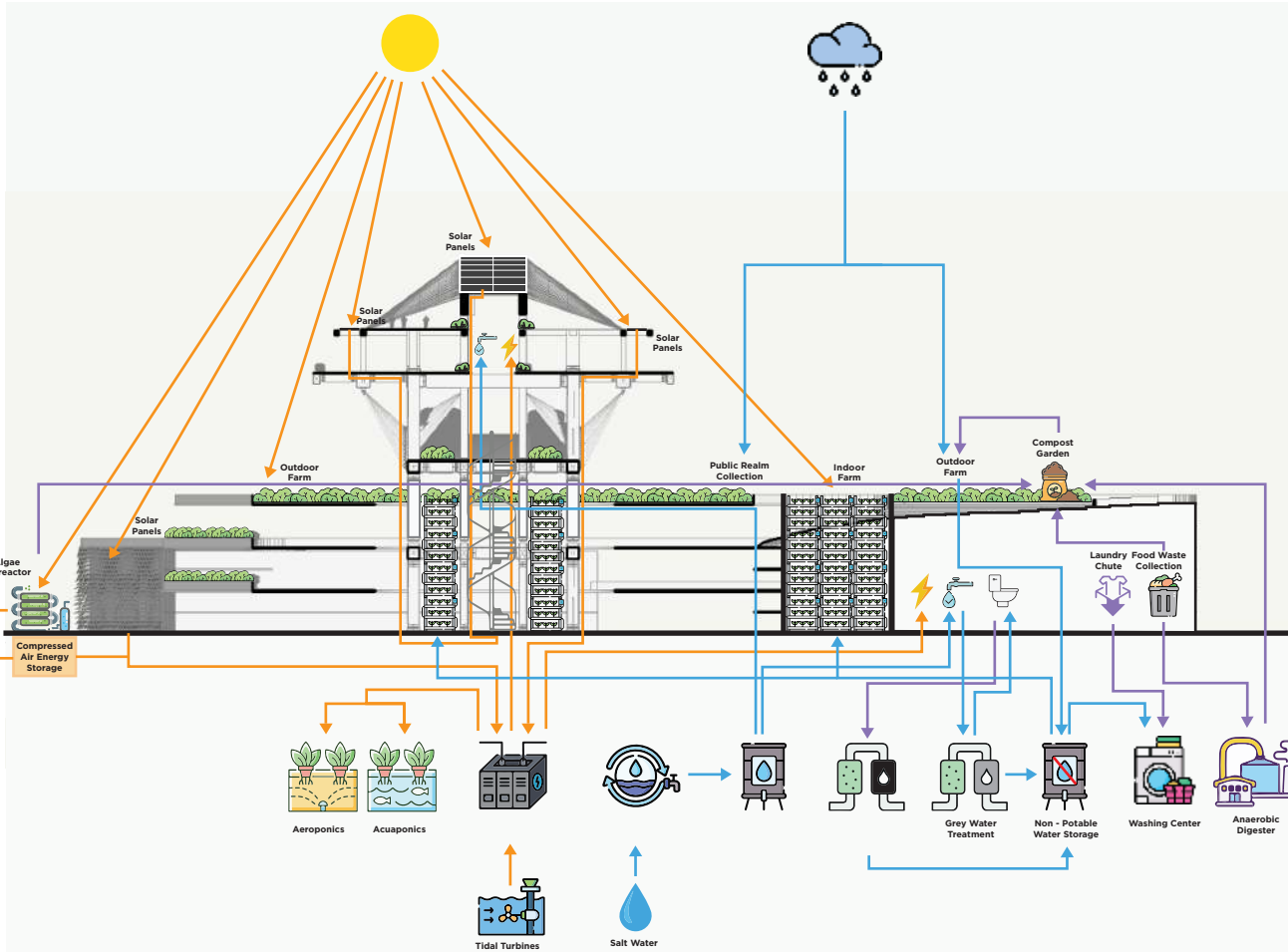


-Responsive Solar Collection  
-Passive Ventilation

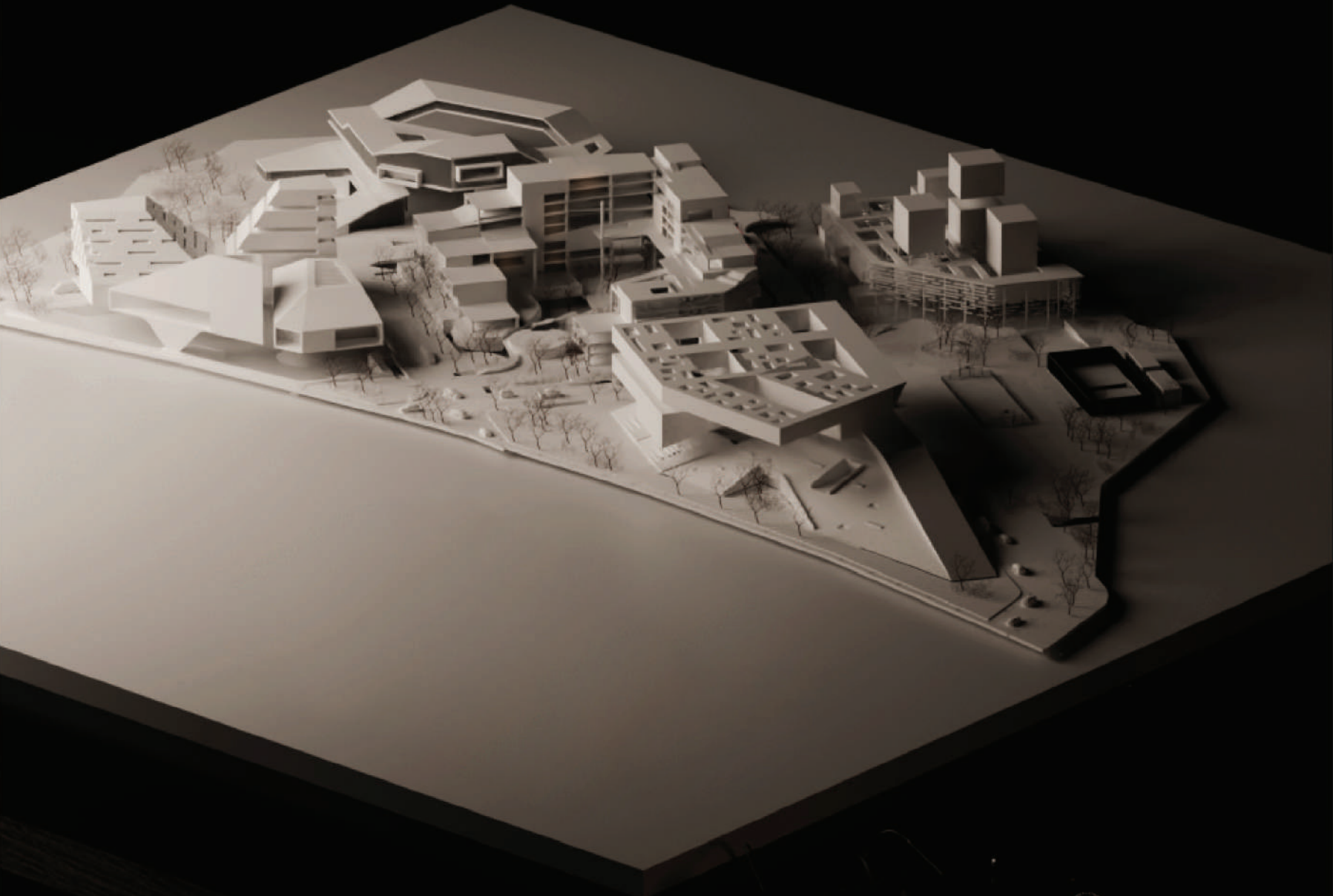


-Passive Shading  
-Water-tight seal

# CIRCULAR ECONOMY & SUSTAINABILITY







## The Nodal City

*Prototype of the Future*

---

### Location

Maracaibo, Venezuela

### Scope

Urban design & Architecture

### Status

Conceptual Design

### Size

Nodal city:  
688890.27 sq ft

ArcuNode:  
215278.21 sq ft

### Year

2021

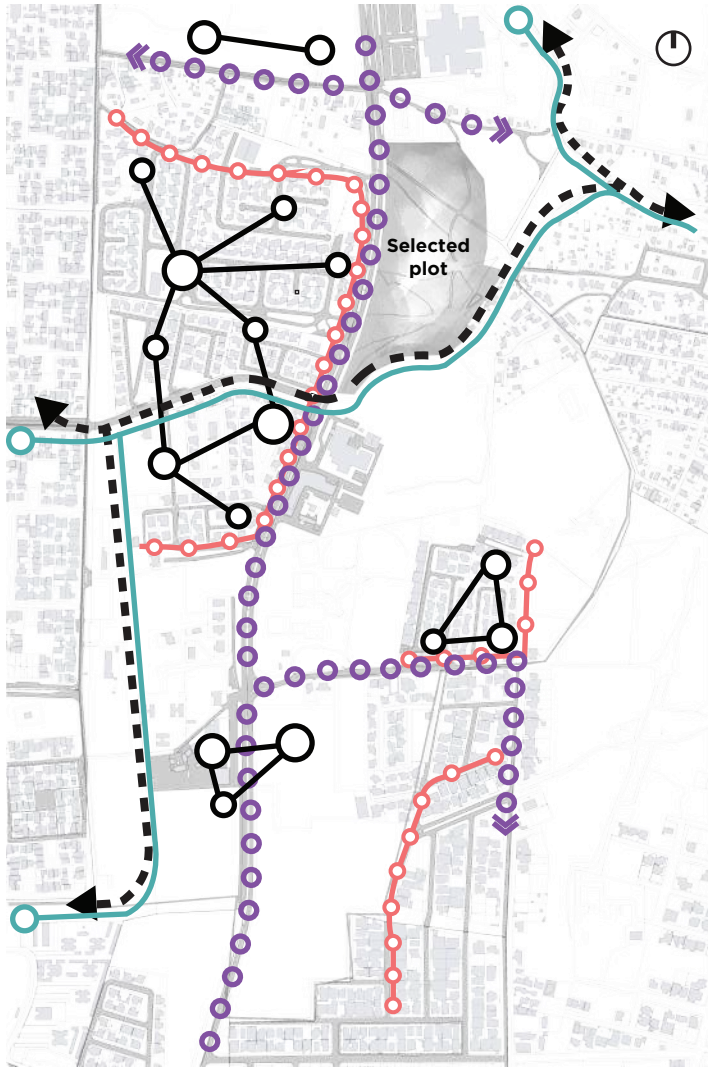
### Collaboration on

Macroproposal,  
The Nodal City,  
ArcuNode,  
Unit prototypes

Since 1990, Maracaibo has experienced a worldwide phenomenon called privatization which has led to the development of gated communities in the northern sector of the city. This proliferation has had negative impacts on the city's landscape, economy, environment, and cultural identity. The biggest challenge of the 21st century will be to democratize the benefits of these "urban islands" and to structure the city into a coherent whole while creating new housing prototypes adapted to the accelerating changes coming by 2050.



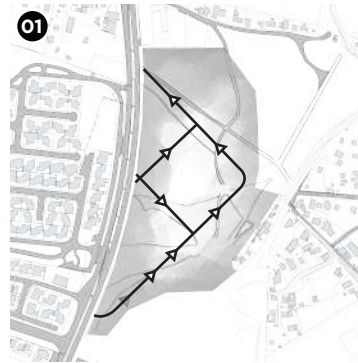
# URBAN MACRO PROPOSAL



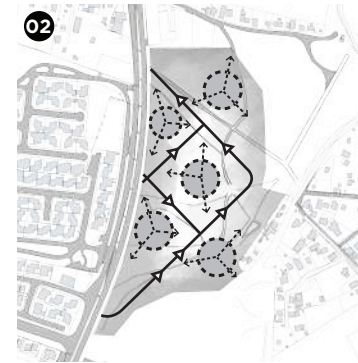
- Redesigning sidewalks
- Commercial activity
- Interconnectivity of public and recreational areas
- Permeability to Gated Communities
- Glens

# THE NODAL CITY: PROCESS

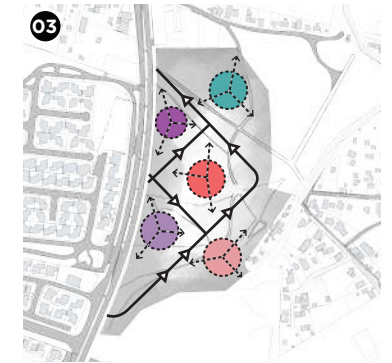
The Nodal city is a superblock prototype proposed in a plot with an area of 688890.27 sq ft to articulate the northern sector of the city. It is composed by six nodes that have a thorough planned combination of uses that allows them to function as a single and cohesive unit.



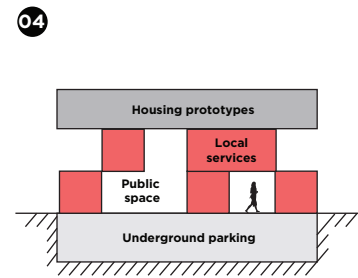
**01 Route:** The route for the main traffic circulation is defined to efficiently cover the whole plot.



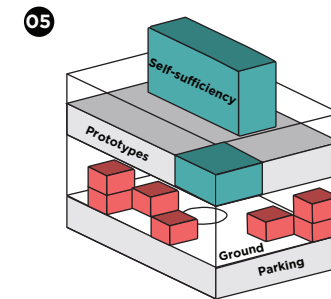
**02 Progressive nodes:** A series of nodes is established from which the gradual development of the micro-city would start.



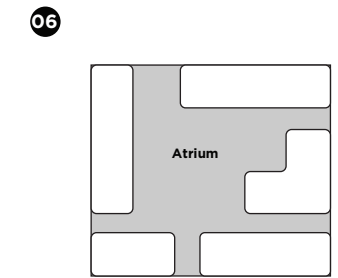
**03 Classification of nodes:** The nodes are classified to contain mixed-uses related to investigations based on future trends by 2050.



**04 Nodes distribution:** The housing prototypes will be elevated from the ground, and the parking area will be underground, freeing up the ground for public space and local services.



**05 Productive spaces:** The commercial services are located in the ground, while the corporative and self-sufficiency ones are distributed in the rest of the building.



**06 Productive spaces:** The Nodes will have atriums that link the first floor with the upper levels to integrate all the systems.

## DESIGN CRITERIA

"Rurban" concept  
Urban and Rural

Low-speed block

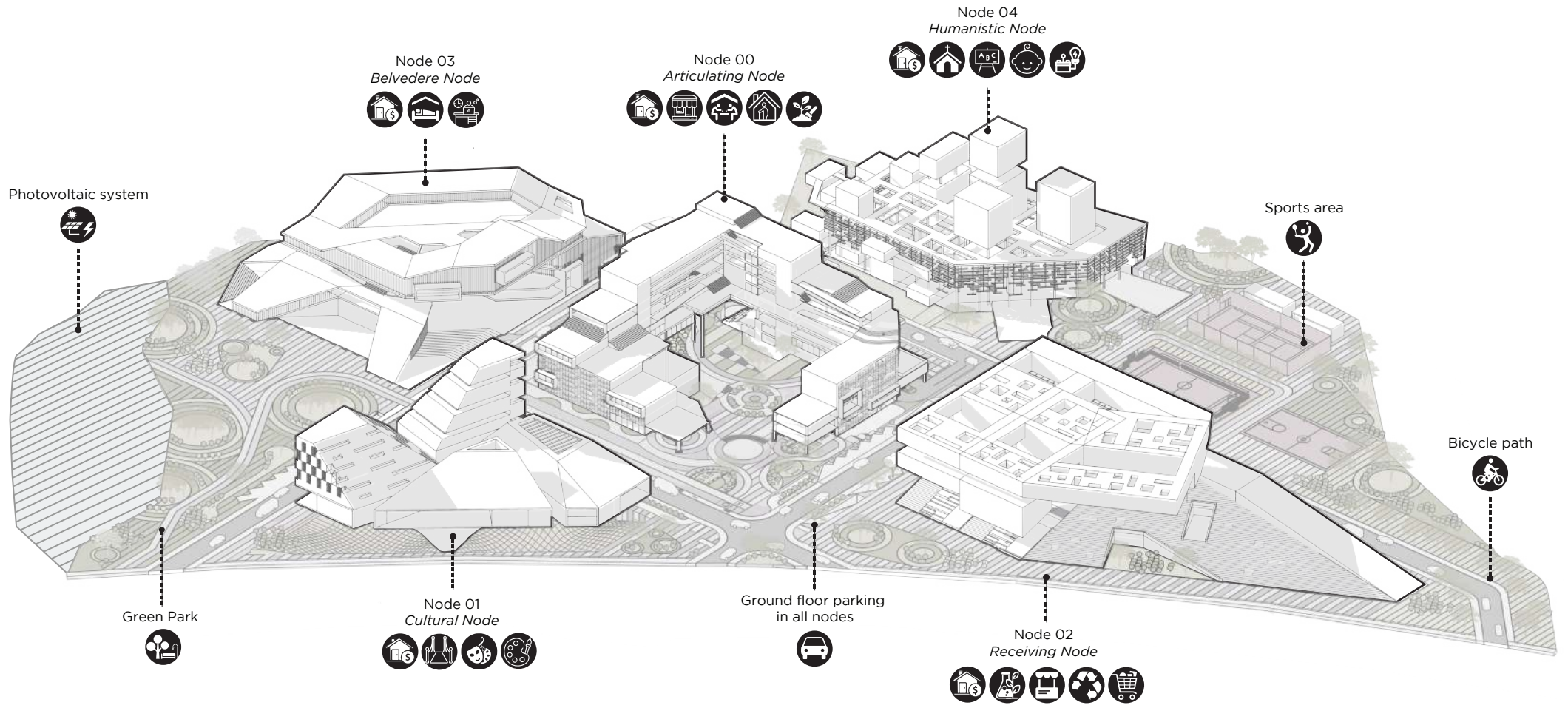
Hybrid buildings  
and dynamism

Micro city  
recycling services

Production chain  
From home to city

Inclusive city:  
New family units,  
elderly and disabled

# THE NODAL CITY: RESULT



- Productive housing
- Hotels
- Offices and commercial areas

- Local commerce
- Co-working, teleworking mini 3D industry
- Day center

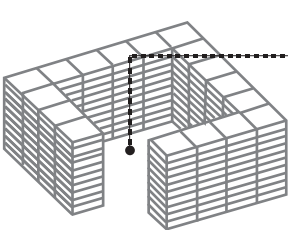
- Agriculture
- Chapel
- Education center

- Daycare
- Energy control center
- Cultural center

- Event rooms
- Exhibition and artist workshops
- Agrilaboratory

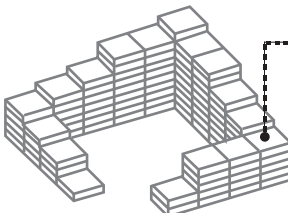
- Bazaar and covered square
- Mini recycling plant
- Supermarket

# ARTICULATING NODE



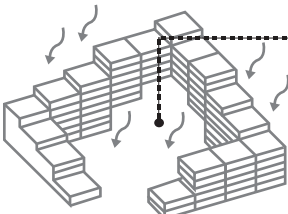
**Atrium**

Since people are the main characters, the development of the nodes begins from expansive atriums that serve as public areas, being the fundamental city's characteristic.



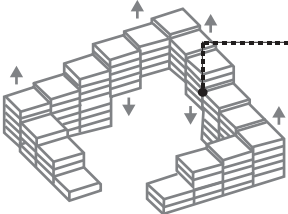
**Terraced building**

In a Post-COVID world, the terraces will be used as outdoor spaces to bring an urban experience even above the ground. They will also be for people's self-sustenance and production such as crops.



**Ventilation**

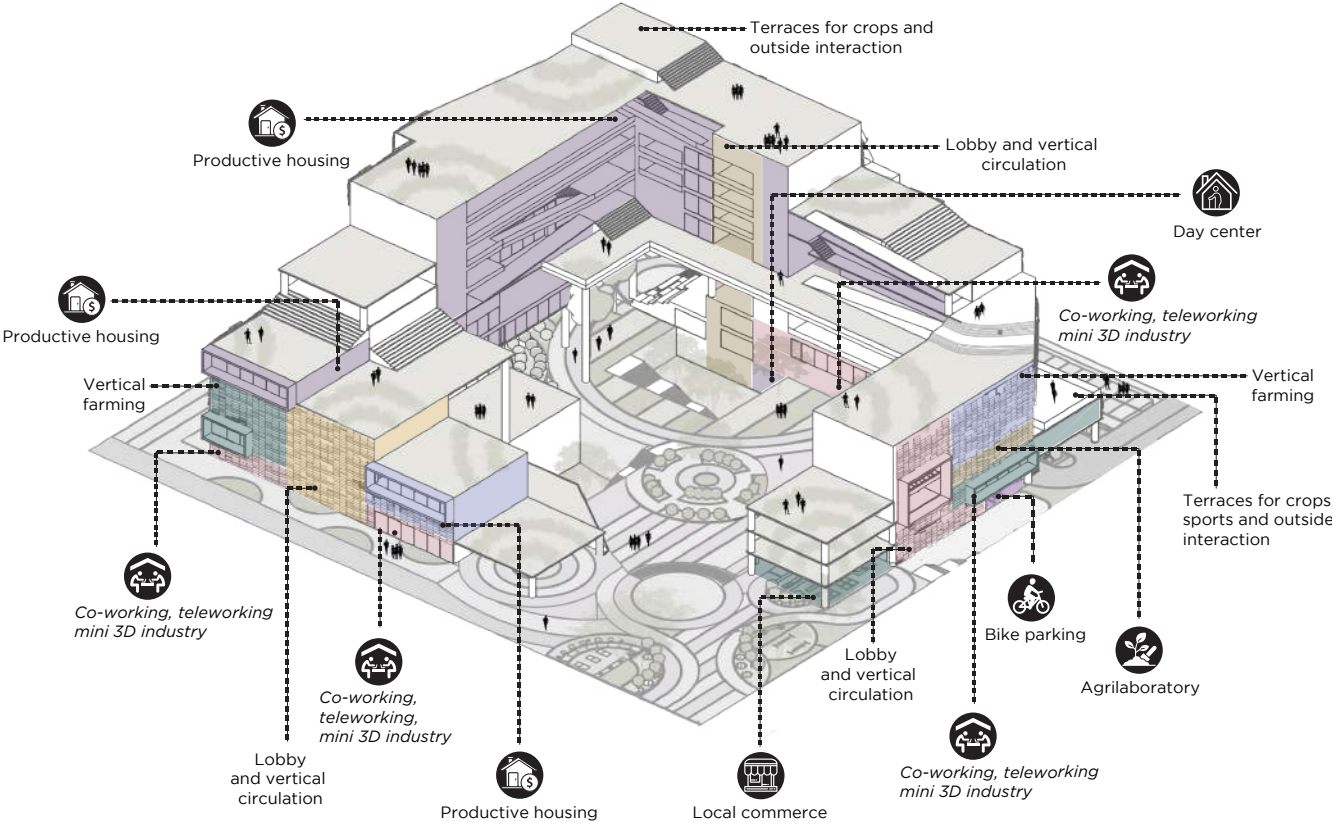
To have a rewarding experience in the public area as well as in the terraces and the interiors of the building, an opening in the back is designed for ventilation purposes.



**Slopes**

In a Post-Covid world, slopes are added between the prototypes and production areas to bring people a sense of security and isolation in case diseases come due to overpopulation in 2050.

Since it is the articulating node, it was intended to create a volume that would be open to the context and give people the impression that they were living in a big square.



**LANDSCAPE**

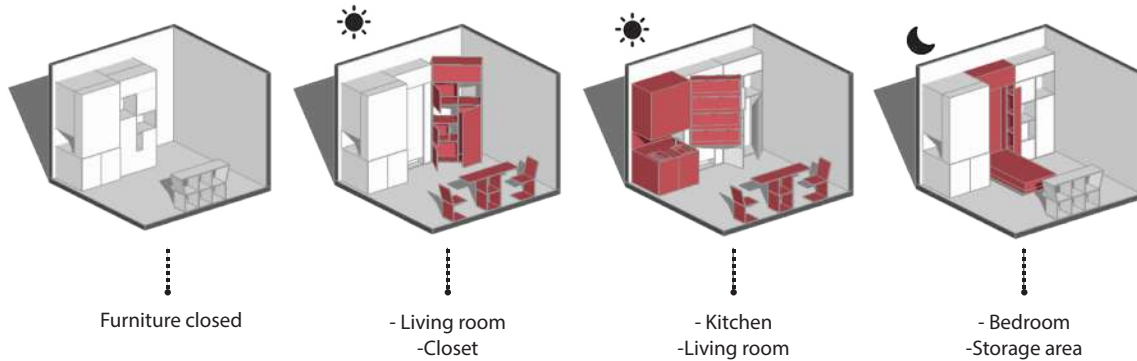
- Ornamental vegetation, crops, sporting, and recreational areas
- Circulation area. Space between lines 2 mt in event of distancing due a pandemic

# UNITS PROTOTYPES

## HOUSING PROTOTYPES - CATALOG OF MODULES

To generate a replicable, stackable, low-cost, high-density housing prototype it was developed a catalog of modules within a format of 4m x 4m each. Now families can adapt their house according to their needs by freely selecting the modules. Numerous possible configurations are acquired from the module/space catalog. For each family/inhabitant typology, 6 basic or referential configurations were chosen as suggestions.

The catalog also includes folding furniture, which creates mutable spaces based on the time of day. In addition to this solution, dozens of other options can be found through new furniture ideas and hybrid spaces.



Furniture closed

- Living room  
- Closet

- Kitchen  
- Living room

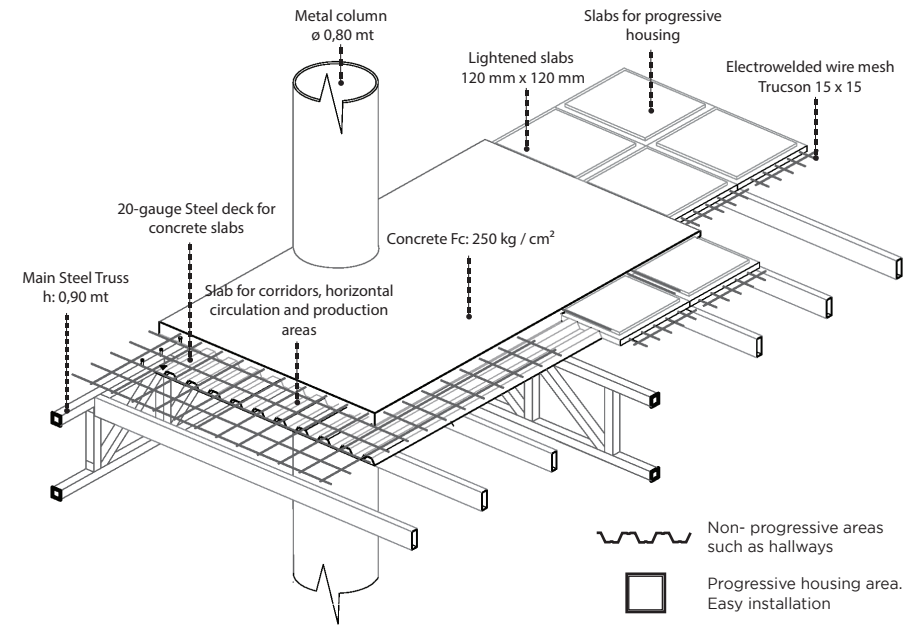
- Bedroom  
- Storage area

Flexible module 01  
4 mt x 4 mt  
16 m<sup>2</sup>  
Typology: Single

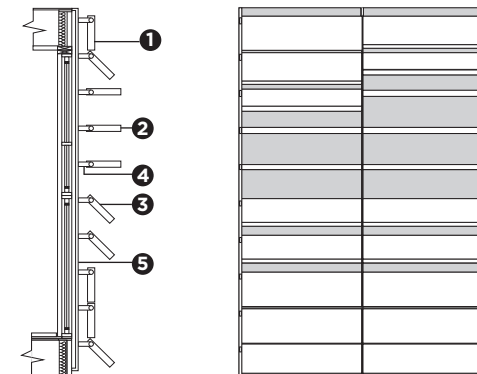


Flexible modules 05 and 06  
4 mt x 4 mt each  
32 m<sup>2</sup> total  
Typology: Family, 4 people

## TECHNOLOGY - HYBRID SYSTEM



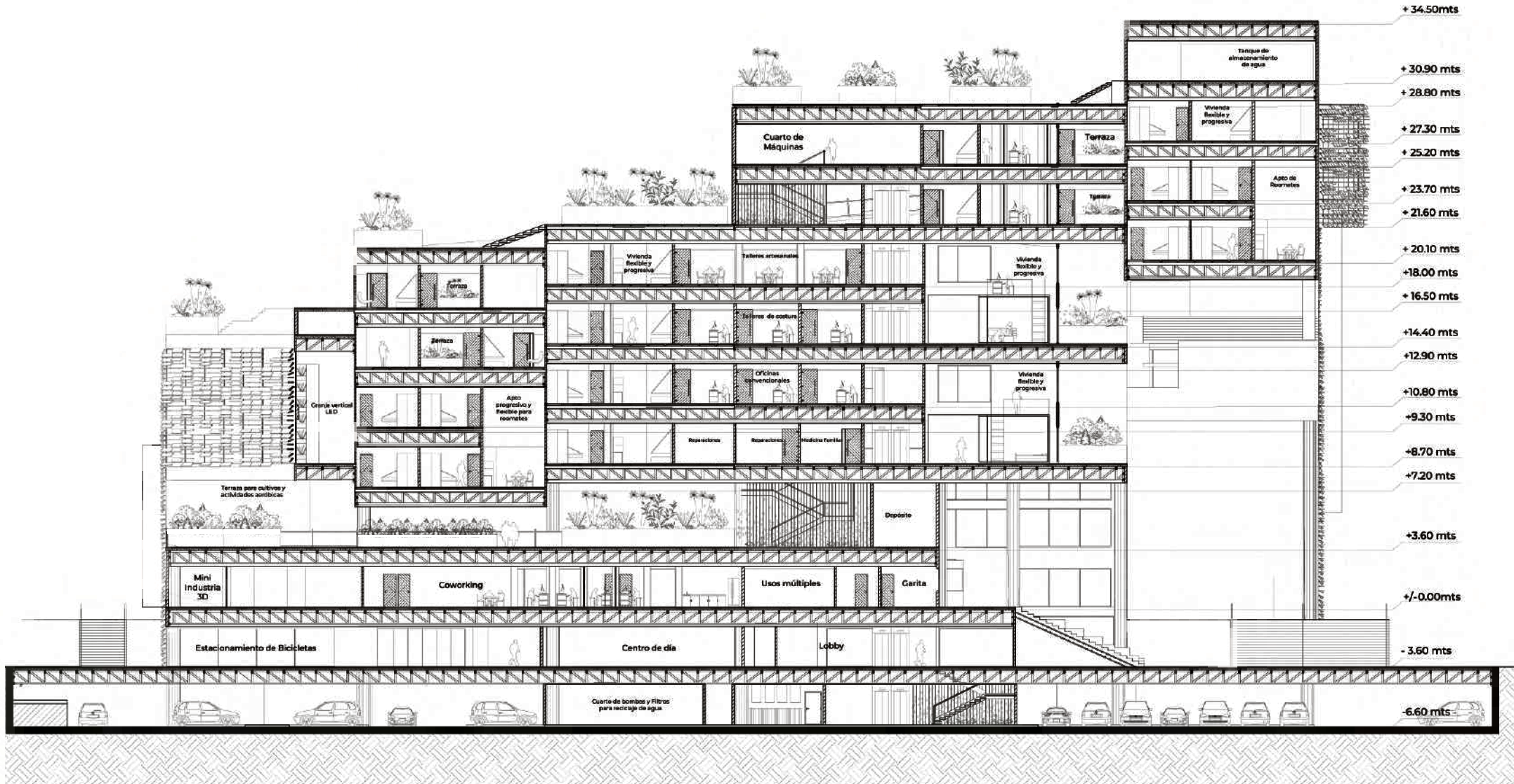
## FACADE COVERING - HIDING UNUSED PROGRESSIVE AREAS



- 1 ETFE Wall covering
- 2 90° tilt ETFE Wall covering
- 3 45° tilt ETFE Wall covering
- 4 Anchored aluminium
- 5 Steel support anchored to facade



# SIDE VIEW SECTION





## Forests&Fields

*Row Houses*

### Location

Maracaibo, Venezuela

### Scope

Architecture

### Status

Conceptual Design

### Size

5820 square meters

### Typology

Residential

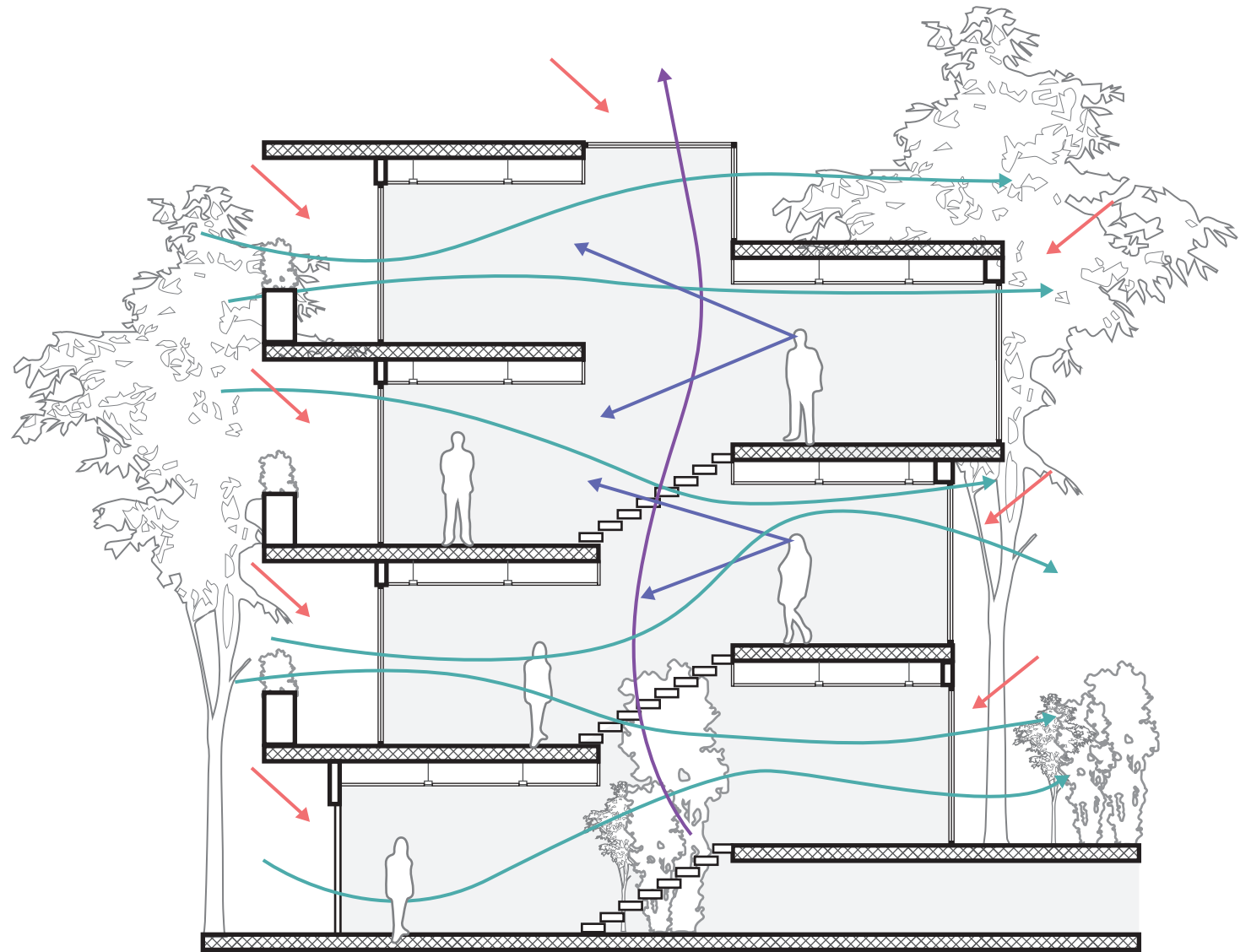
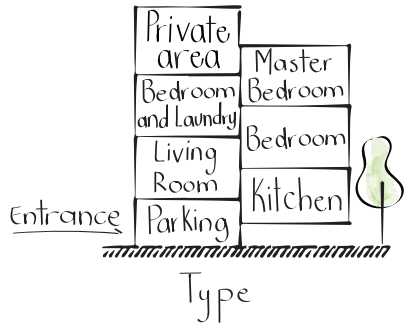
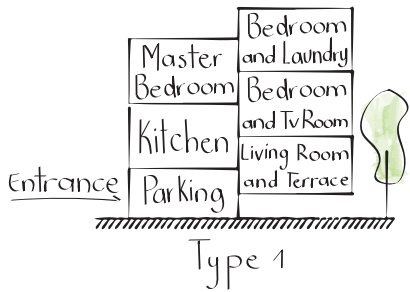
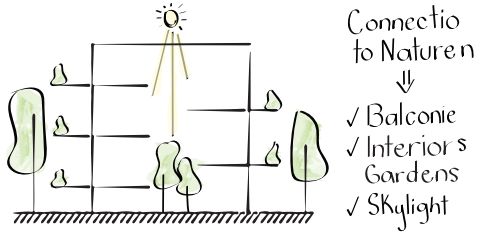
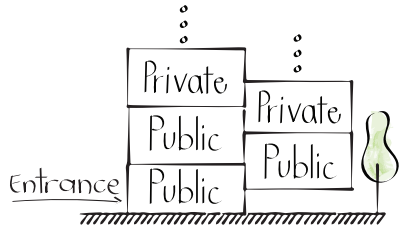
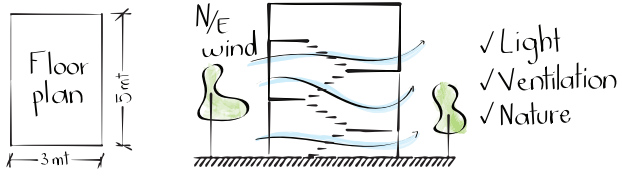
### Year

2022

On a 5820 sq m plot of land, the project consists of 23 housing units arranged in two rows that open onto a sizable square where the residents experience a sense of community. The primary challenge of this project was figuring out how to make the most of each house's two facades, which were its only sources of natural light, ventilation, and connection to nature, and designing units with the needed spaces within the maximum height allowed: 15 mt.



# DESIGN CRITERIA - PROCESS



the interior garden and vegetated balconies offer a fresh and relaxed atmosphere inside the house.



The hot air rises through the vertical circulation being released.



Vegetated balconies provide privacy to the house, reduce the temperature and protect the facades from the sun.



The slopes allow strategic ventilation between the different levels.

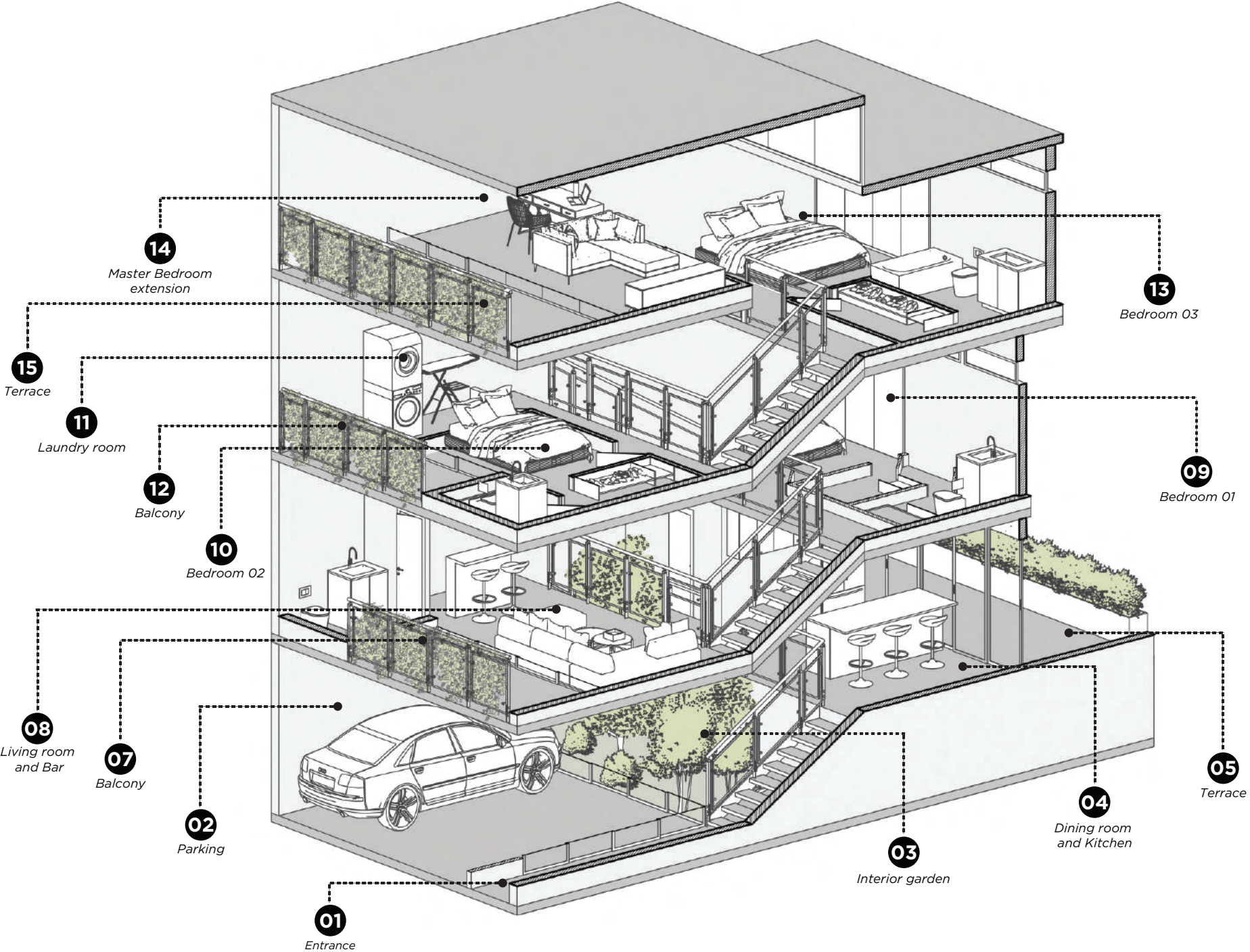


The house has big windows that let in natural light and provide connection to the outdoors and nature.

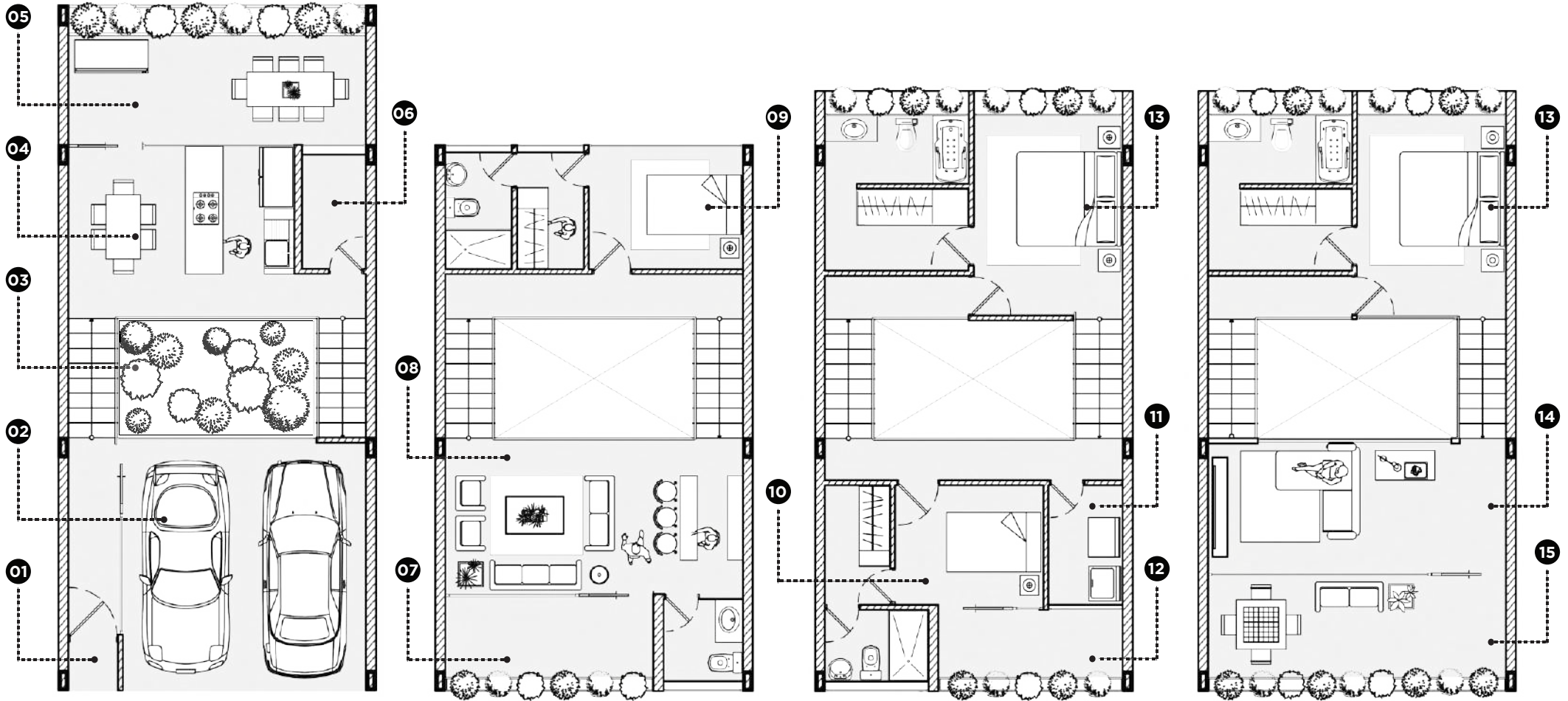


The slopes generate great sense of spaciousness turning the house into a dynamic space.

# ISOMETRIC VIEW - DISTRIBUTION



# TYPE 2: FLOOR PLAN



**01** Entrance

**02** Parking

**03** Interior garden

**04** Dining room and Kitchen

**05** Terrace

**06** Storage room

**07** Balcony

**08** Living room and Bar

**09** Bedroom 01

**10** Bedroom 02

**11** Laundry Room

**12** Balcony

**13** Bedroom 03

**14** Master Bedroom Extension

**15** Terrace





## TMS Office

Offices

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### Location

Maracaibo, Venezuela

### Scope

Interior Design

### Status

Built

### Size

155 square meters

### Year

2020

### Client


Private


The TMS office in Torre Tendencia was designed to promote functionality, comfort, and openness. The layout includes a main office, six workstations, an attorney's office, a marketing area, and a kitchenette. Full-height glass partitions were used to enhance natural light, ventilation, and lake views, creating a bright and connected workspace. Thoughtful spatial planning and material choices ensure a modern, efficient, and human-centered environment.





# DESIGN CONCEPT

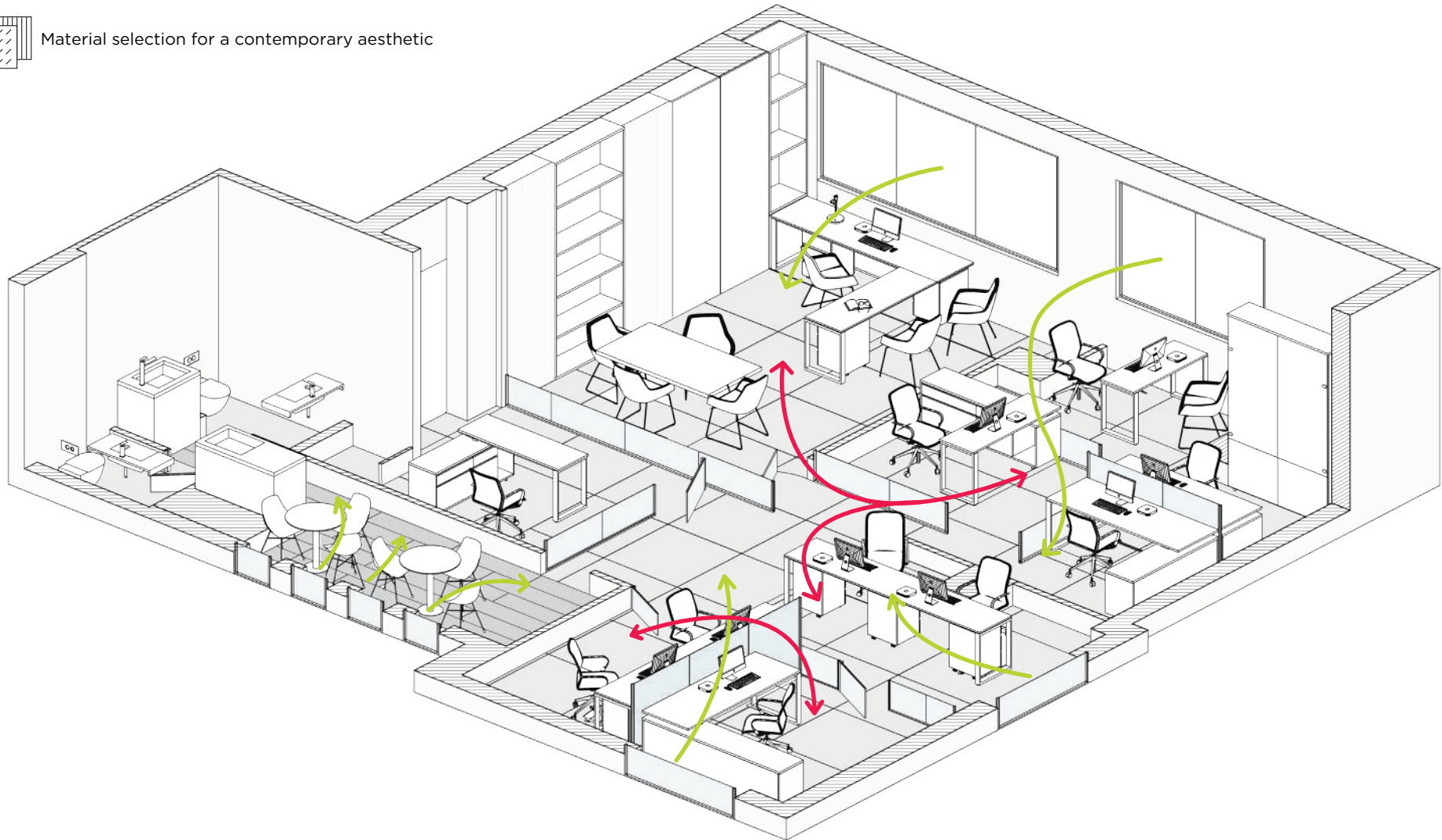
 Spaces arranged for efficiency and productivity

 Glass partitions for transparency, openness, maximize lake views, daylight, and ventilation

 Light-filled environment that feels both open and organized

 Kitchenette to support employee well-being and human-centered workplace

 Material selection for a contemporary aesthetic







## Tetriskase

Home Library

### Location

New York, United States

### Scope

Furniture Design  
Interior Design

### Status

Built

### Typology

Residential

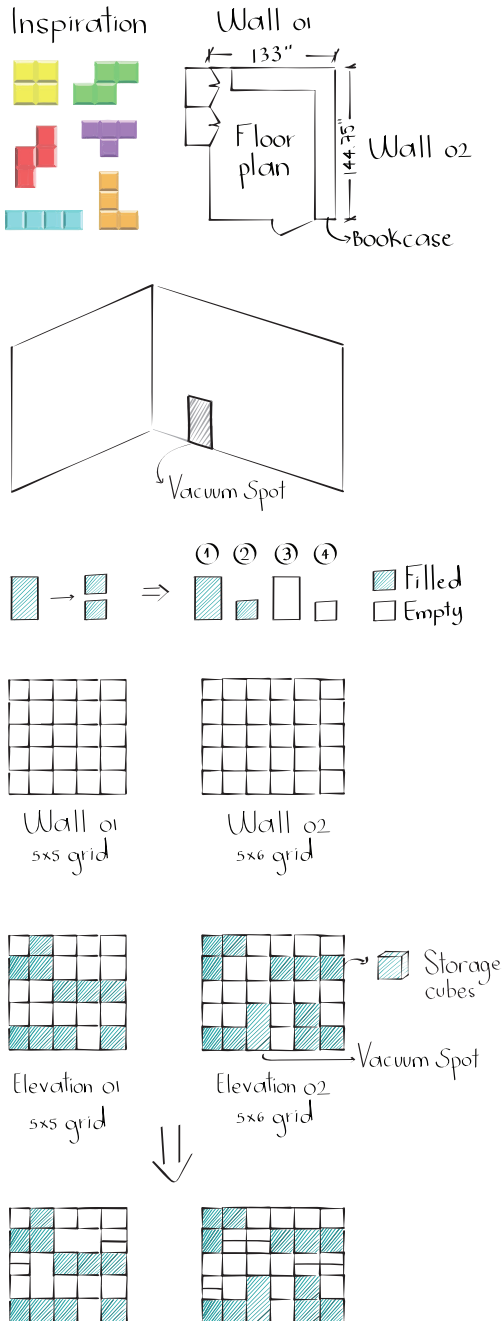
### Year

2022

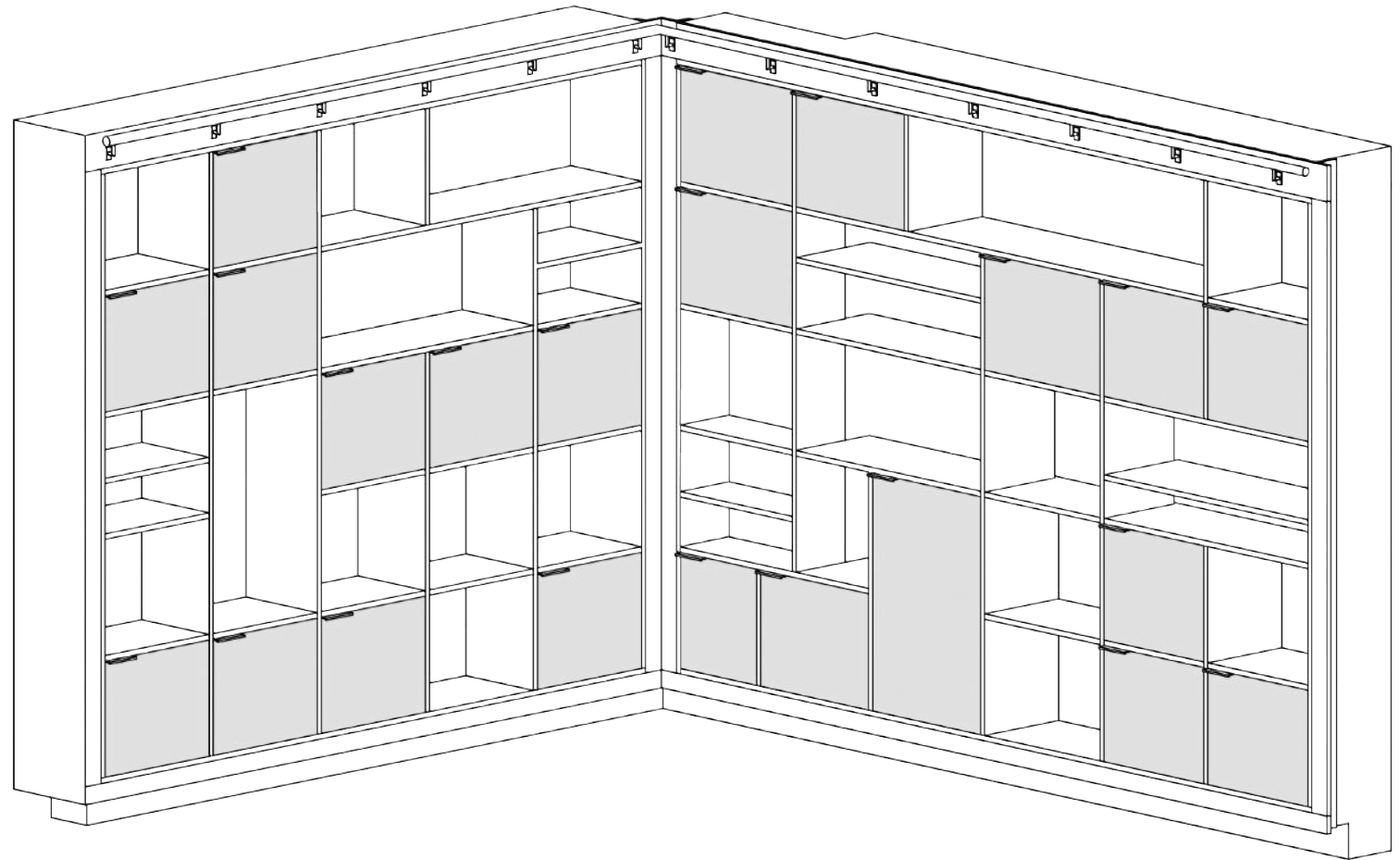
Inspired by the Video game Tetris, this project was created for a reading-loving family that desired a simple but elegant location to store their books. The starting point to design the furniture was a cavity in the wall to keep a vacuum, using that space to duplicate it multiple times to create a dynamic style that played between open and closed spaces while maintaining sobriety and elegance.



# PROGRESS



# RESULT

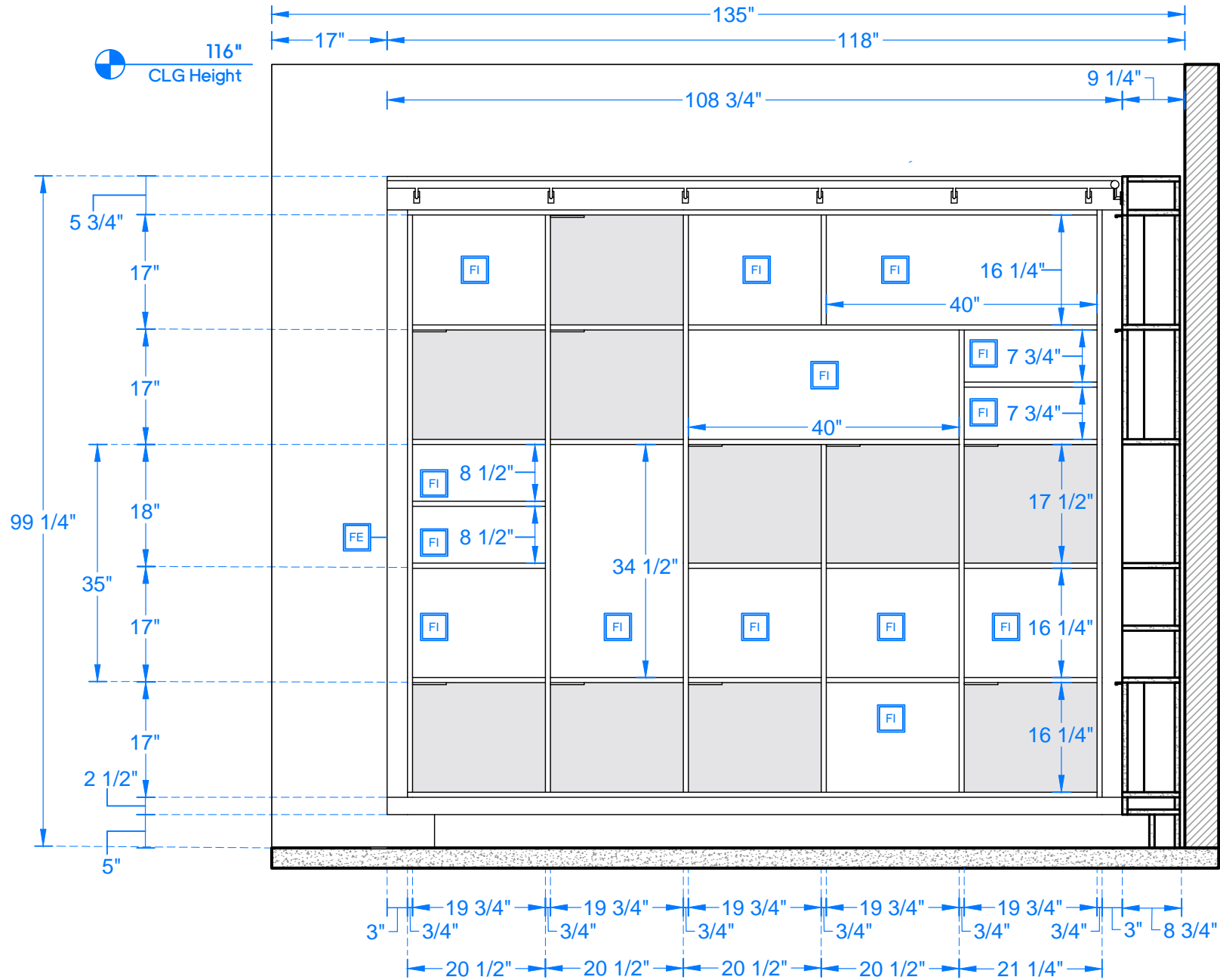


## MATERIAL SCHEDULE

SUPPLIER	ITEM	DESCRIPTION
Lamitech	HPL Lamitech Fashion White 2125 Gloss Finish	For Home Library
Commodity	3/4" Particle board	Core for Home Library
Commodity	3/4" White melamine	For Home Library interiors and shelving

SUPPLIER	ITEM	DESCRIPTION
Commodity	Blum Inset Soft Close Hinges	Cabinetry Hinges
Richelieu	Contemporary Aluminium Edge Pull - 9898 Product # BP989850990	Brushed Edge Pull

# ELEVATION





OTHER INTERIOR PROJECTS

# HOME OFFICE - MIAMI, USA



LANDAU KITCHEN - 2117 57ST BROOKLYN, NY, USA



STUDIO APARTMENT - TORRE LITE, MARACAIBO, VENEZUELA

