

MuDD

Architects

[Architecture Portfolio]



[Writer's Cabin]

Location: Madrid

Year: 2021

M²: 27

Budget: 50,000 €

Client: Private

Collaborators: Naturwood, Fustería Digital

Fablab, SIMON

The Writer's Hut has been designed and built in a few months for a children's book writer. For her, the process and the resulting construction had to be extremely evocative and a source of inspiration for her future books. The writer's cabin in the north of Madrid, where winters are extremely cold, is the first by MuDD Architects in which digital fabrication combined with highly skilled master builders is used in the same project for mundane everyday use.



[Montsoriu Cabin]

Location: Fogueres de Montsoriu, Girona

Year: 2022

M²: 98

Budget: 180,000 €

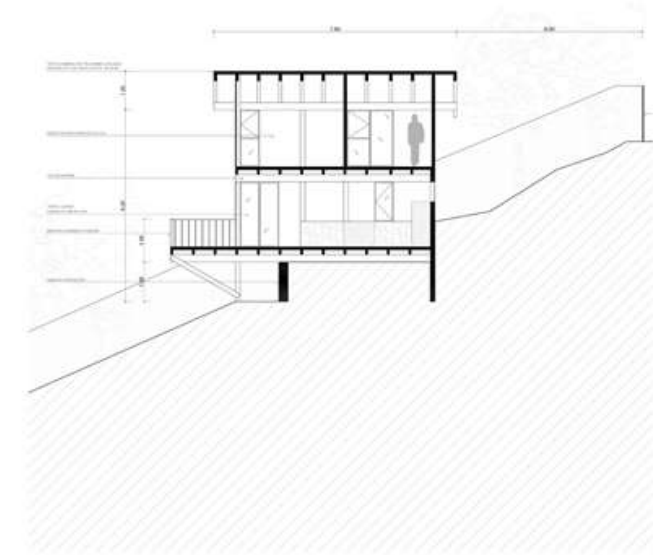
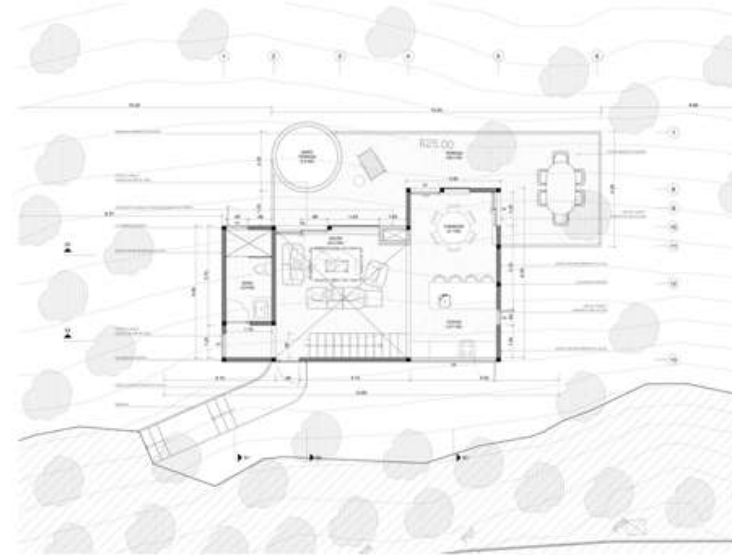
Client: Private

Collaborators: Biopasiva



The Montsoriu Cabin project was born from the request for a home that is in connection with nature. As important factors of this project is the importance of wood in the materiality, the steep slope of the terrain, the respect towards the existing nature and the views towards the mountains.

It is for this reason that the project opens towards the front where the views from the mountains are with a cantilevered terrace.



The finishes of the house are Arabic tiles for the roof, walls with lime coating, exposed wood of the wooden structure and glass.

In terms of distribution, the common area is on the ground floor, open to the terrace, and the two rooms are on the first floor, both with views of the forest.



[Calafell House]

Location: Calafell, Tarragona

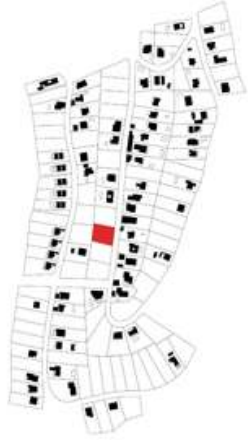
Year: 2022

M²: 210

Budget: 180,000 €

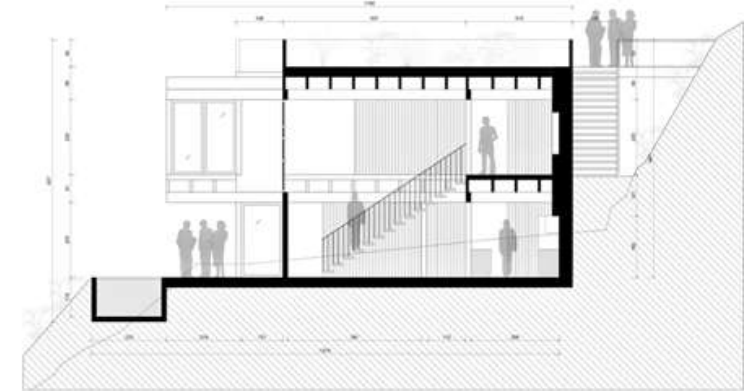
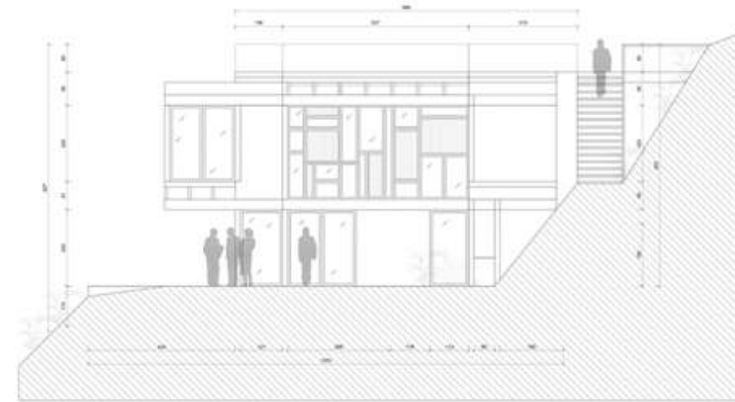
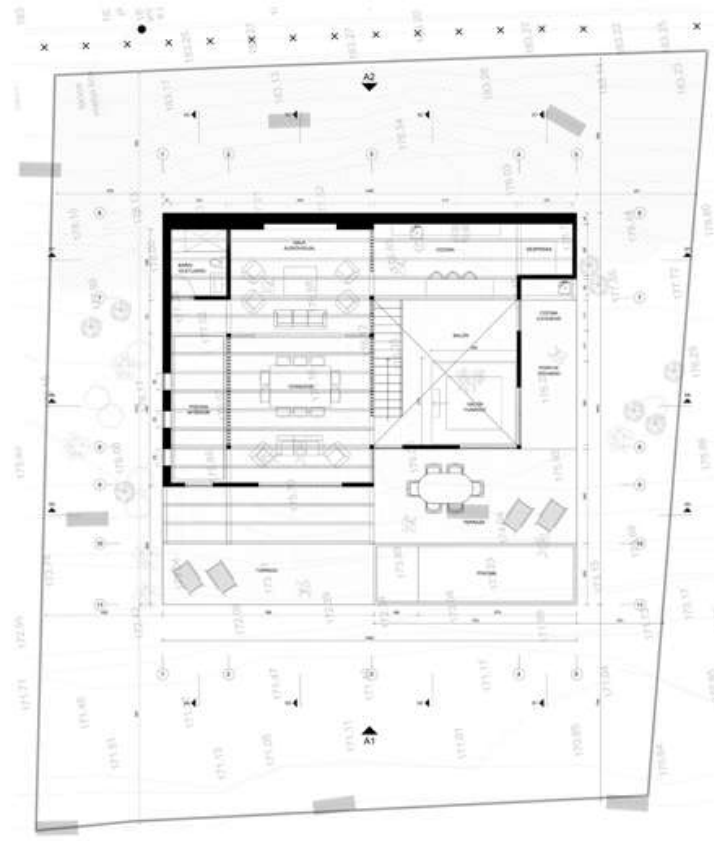
Client: Private

Collaborators: Biopasiva



House located on a terrain with a slope in Calafell where the geography of the ground is used to locate the house.

The ground floor serves as a common space with an indoor pool, terrace, audiovisual room, living room, kitchen, dining room and pantry.



The structure is designed with a light timber frame, finished in clay mortar, exposed beams and columns of wood and glass.

The entrance to the house is through the roof, which is a green roof. Then you go down to the first floor where the rooms are located by an external staircase.

[Chilches House]

Location: Chilches, Castellón

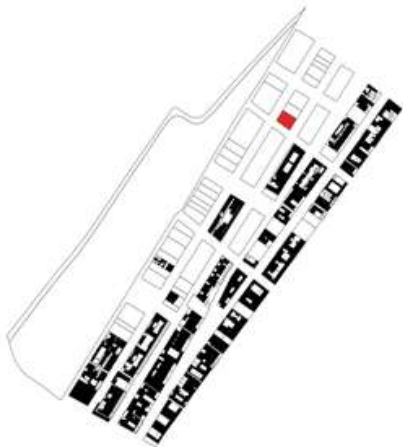
Year: 2021

M²: 152

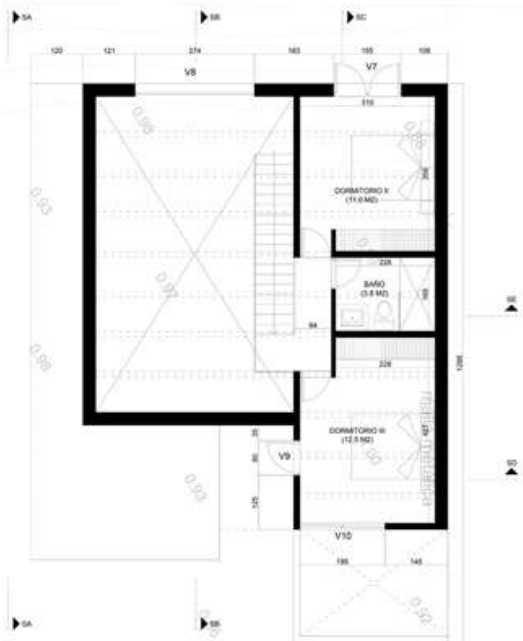
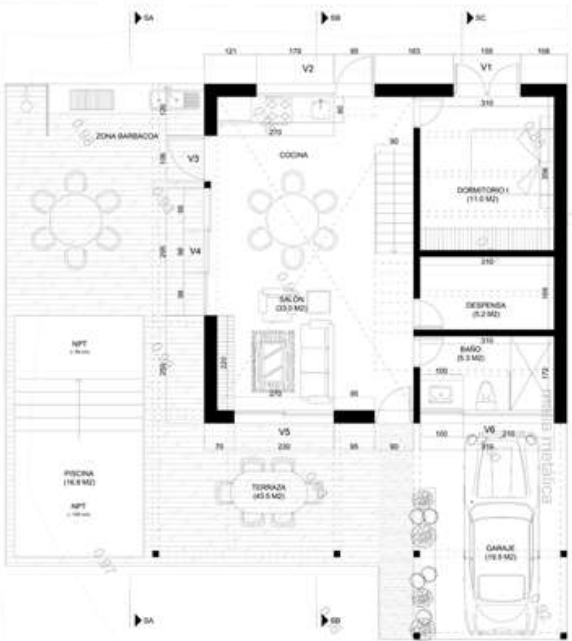
Budget: 150,000 €

Client: Private

Collaborators: Biopasiva



Summer house in Chilches designed with a wooden structure and lime-coated finish. With simple and straightforward geometry, this house has an open ground floor with a double-height interior common area of living room, kitchen and dining room that is connected through a covered porch with the terrace, pool, barbecue and garden area. The house has 3 bedrooms, one on the ground floor and the other two on the first floor, one of them with a private terrace.



[Torrelodones House]

Location: Torrelodones, Madrid

Year: 2022

M²: 230

Budget: 350,000 €

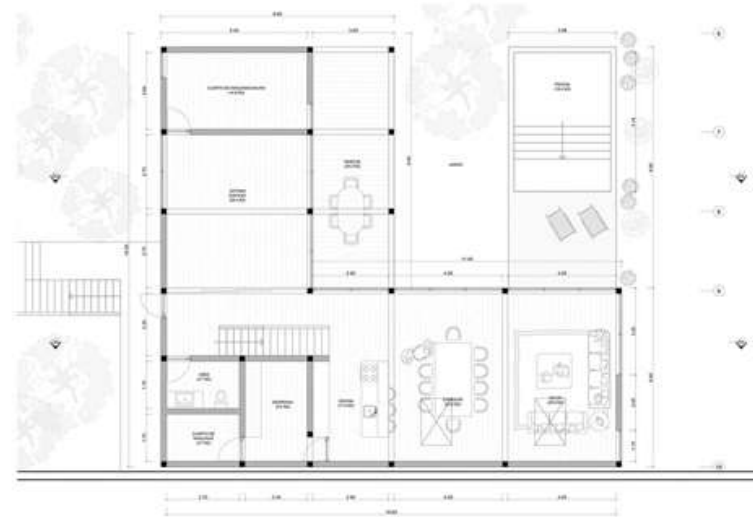
Client: Private

Collaborators: Biopasiva



House with simple geometry, which solves a common space on the ground floor that surrounds a covered porch and a pool area.

The facades are made up of opaque walls, wooden latticework that lets in light, and glass.



The first floor has four bedrooms and a living space. In addition, the exposed roofs are designed as walkable green roofs, giving this level a large terrace with vegetation.

[Caldes de Malavella House]

Location: Caldes de Malavella, Girona

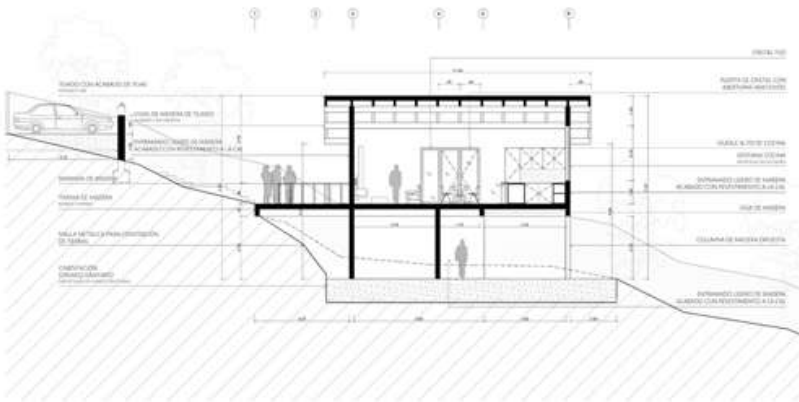
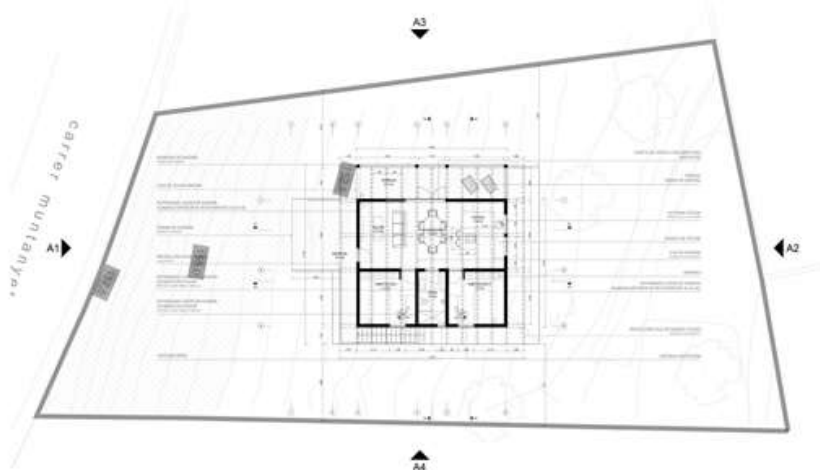
Year: 2022

M²: 87

Budget: 180,000 €

Client: Private

Collaborators: Fustería Digital
Fablab



House with simple geometry that, by being on a slope, generates two levels.

The ground floor with a large workshop open to the exterior and the first floor, which contains the living spaces, with a terrace/greenhouse.



[Besalu House]

Location: Besalú, Girona

Year: 2021

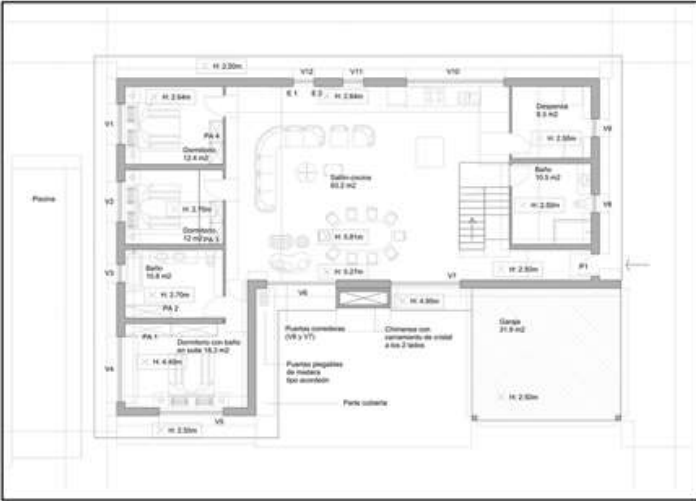
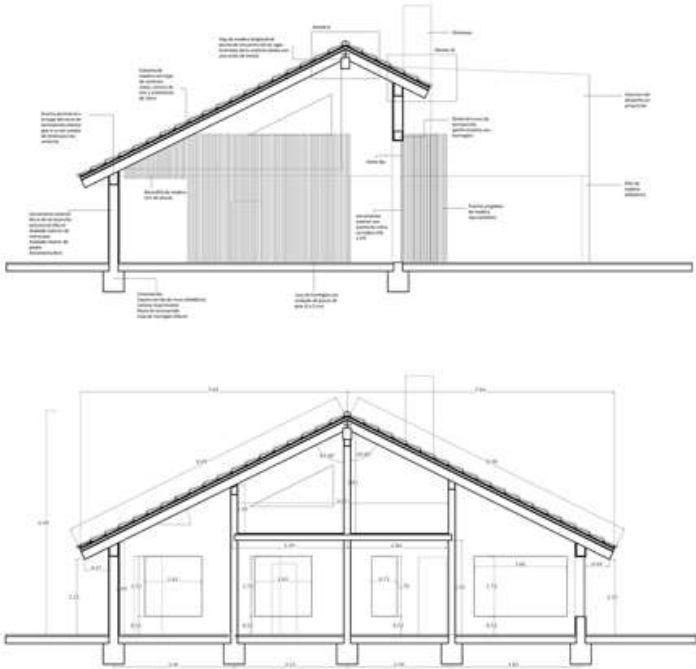
M²: 280

Budget: 300,000 €

Client: Private

Collaborators: Naturwood

House located on the outskirts of the historic center of Besalú. The concept of the design was to have a large-scale open central space with high ceilings that works as an articulator of the house.



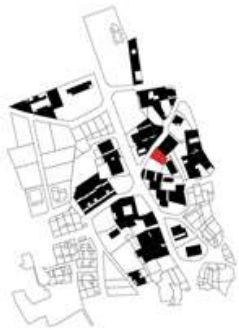
The structure of the house is mainly thermoclay walls and wooden beams.

In addition, wooden lattices and exterior cladding with wooden panels are used, which contrast with the smooth finish of the walls and the roof with gabled Arabic tiles.

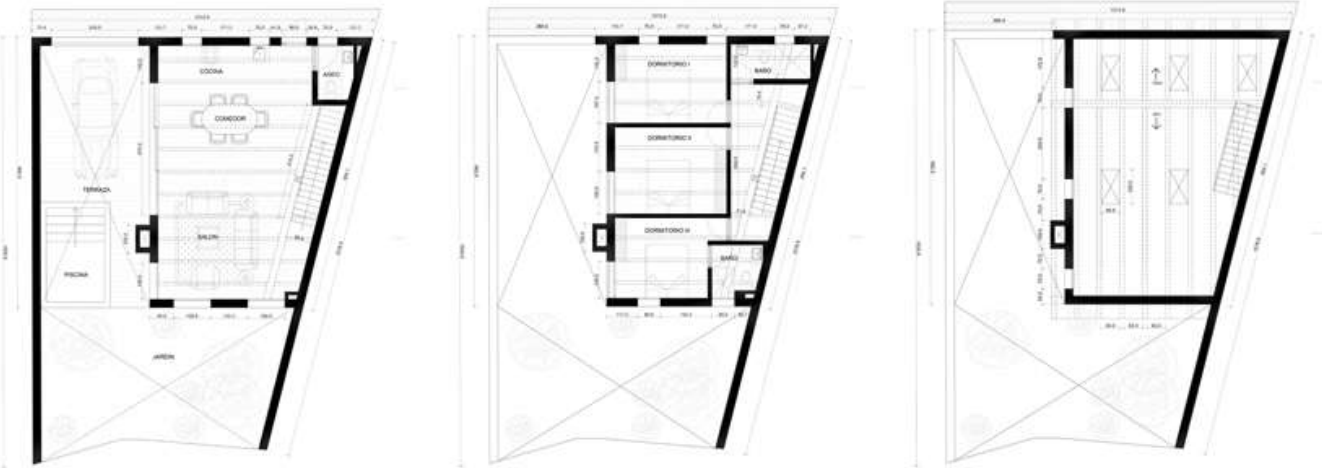


[Alameda del Valle House]

Location: Alameda del Valle, Madrid
Year: 2022
M²: 68
Budget: 350,000 €
Client: Private
Collaborators: Biopasiva, Ecoclay, Fetdeterra



3-level house that has as distribution on the ground floor an open space of living room, dining room and kitchen that is directly related to the terrace and the pool. On the first floor, with openings to the terrace and the garden, the 3 bedrooms are distributed. The second floor remains as a free space with a sloped gabled roof.



The terrace area has a wooden structure that covers it since this area is designed so that it can be covered in winter and uncovered in summer. This means that the entire outdoor terrace and pool area can be used both in summer and winter, since the temperatures in this area can be quite extreme.

[Normandy Renovation]

Location: Normandy, France

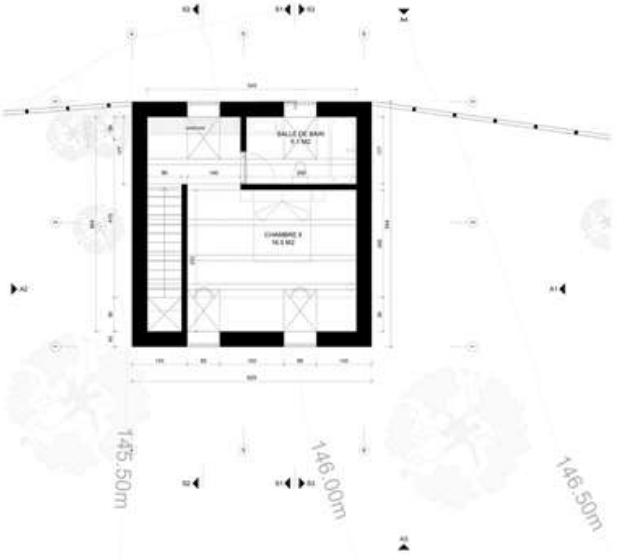
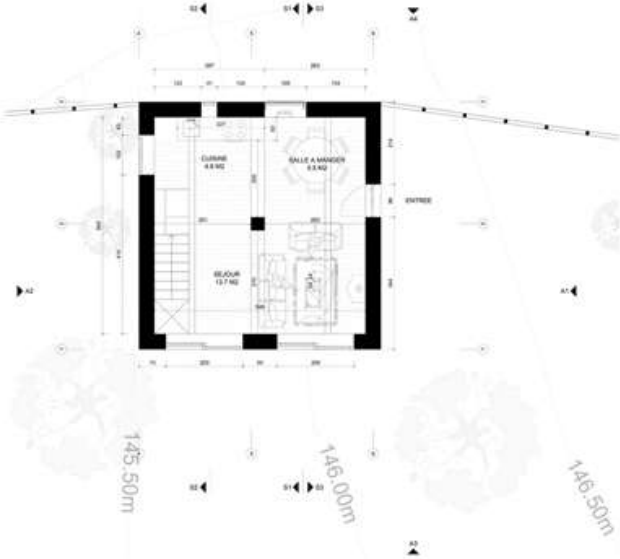
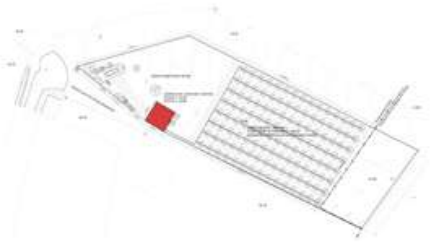
Year: 2022

M²: 48

Budget: 90,000 €

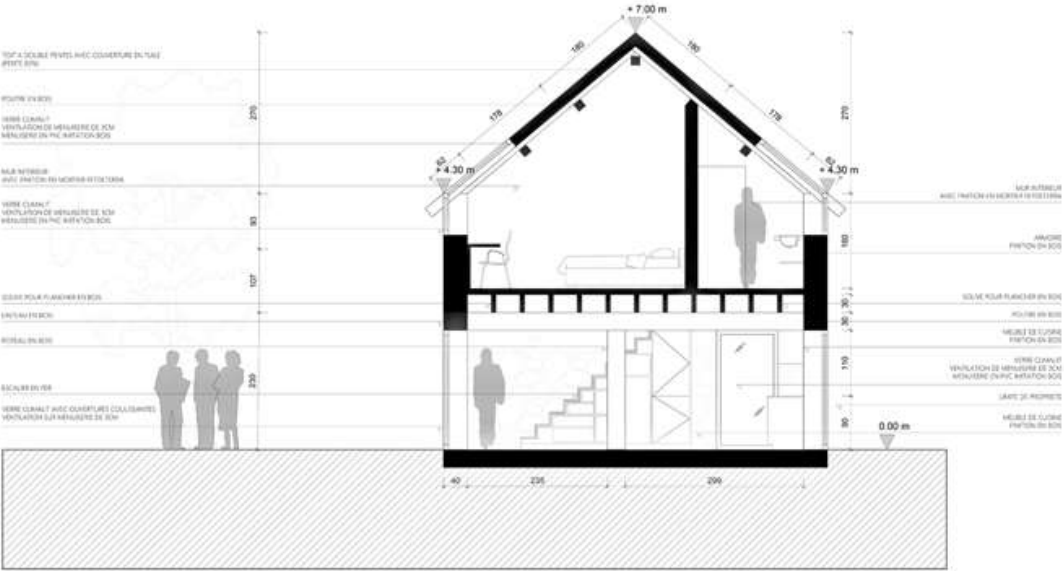
Client: Private

Collaborators: Menuisier MDB



Renovation of a two-story stone building in a state of abandonment.

The idea of the project is to recover the main stone structure and turn it into a small house, making strategic openings for the entry of natural light and prioritizing views of the fields.



The finishing of the façade walls will remain in stone and inside you will be able to see a new wooden structure.

The concept of the reform is in phases, with the first objective of reforming what already exists and then making extensions that will be attached to the house.

[Mallorca Renovation]

Location: Cala Ratjada, Mallorca

Year: 2021

M²: 59

Budget: 35,000 €

Client: Private

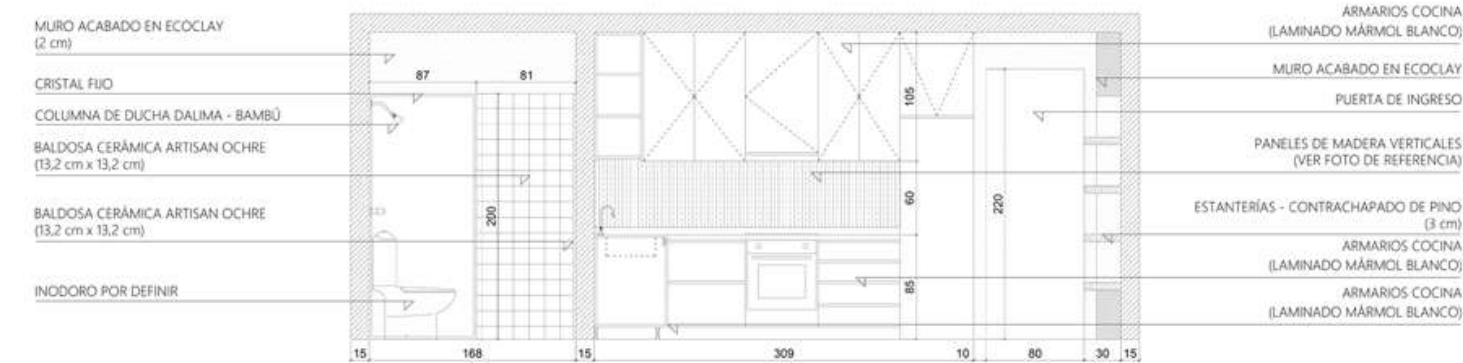
Collaborators: Son Brindis



The renovation of this apartment in Cala Ratjada, Mallorca was based on the new construction and distribution of the entire apartment, after it had been abandoned.

By integrating the kitchen into the common space, the main room gains amplitude, leaving the dining room on the kitchen island and the living room next to the terrace.

The walls are covered with clay mortar and the doors of the kitchen, refrigerator, bathroom and bedrooms are covered with a natural wood lattice.



[Raval Apartment Renovation]

Location: Raval, Barcelona

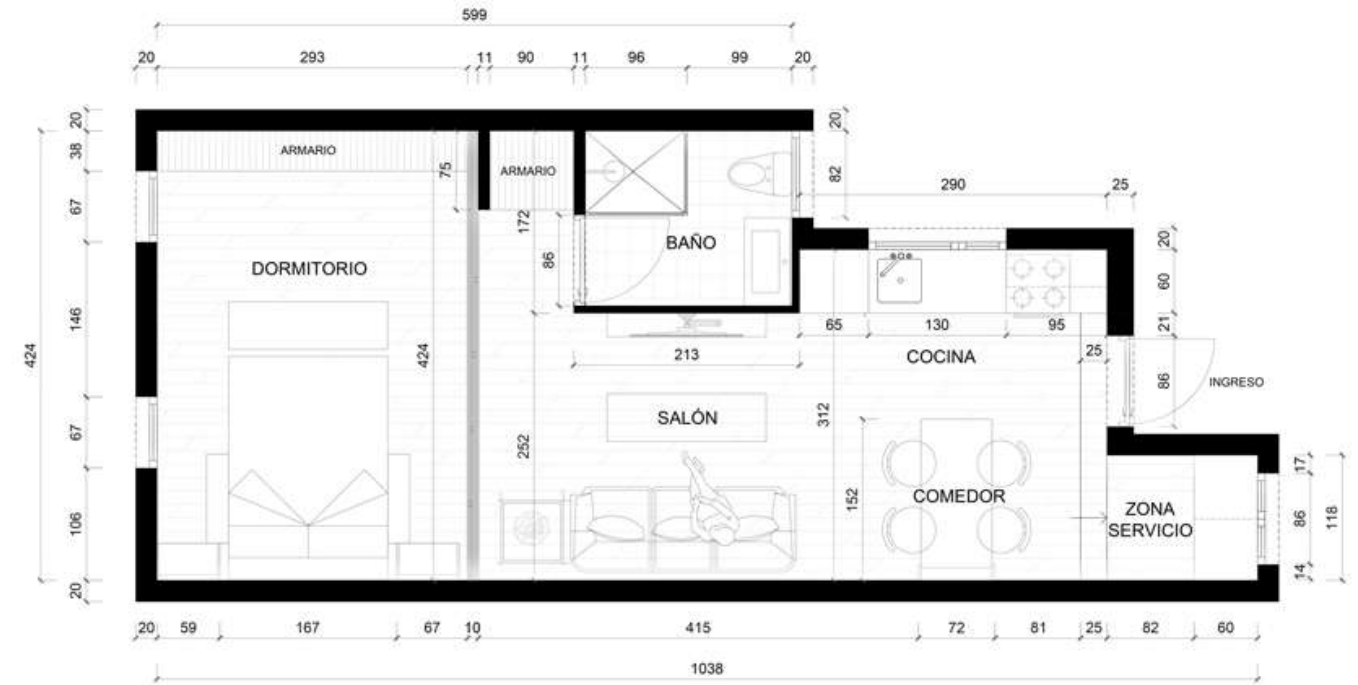
Year: 2022

M²: 42

Budget: 20,000 €

Client: Private

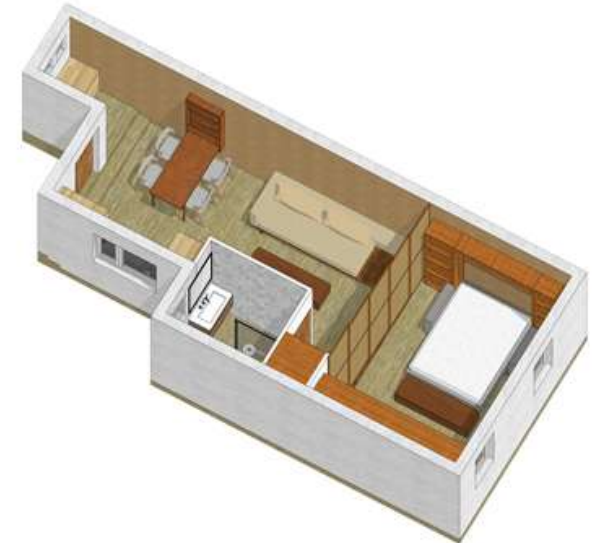
Collaborators:



The design concept for this renovation in the Raval was to make the most of the space possible. Previously the flat was divided into many spaces, which made it dark and impractical.

The reform is based on creating a flat - study, making a single division for the bathroom.

This improves the ventilation of the space, makes it brighter and more spacious.



[Poitiers Renovation]

Location: Poitiers, Francia

Year: 2022

M²: 120

Budget: 150,000 €

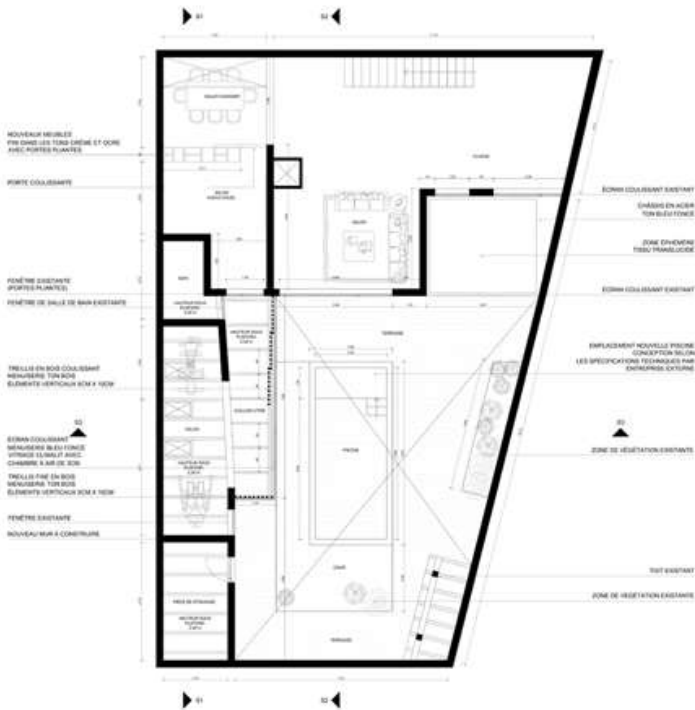
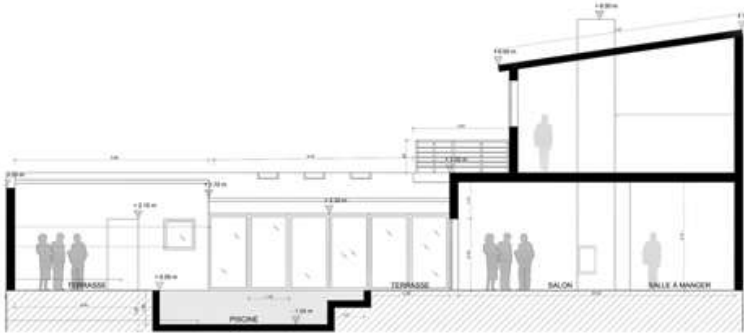
Client: Private

Collaborators:



The renovation in this single-family home in Poitiers consists of the construction of a glazed corridor with sliding wooden latticework that connects the interior spaces of the house with a new area destined to be a small gym next to the terrace.

In addition, a new central pool is proposed on the terrace and an intervention to expand the dining area and separate it with a custom-designed piece of furniture.



[Tree House Prototype]

Location: Normandy, France

Year: 2022

M²: 25

Budget: 150,000 €

Client: Private

Collaborators:



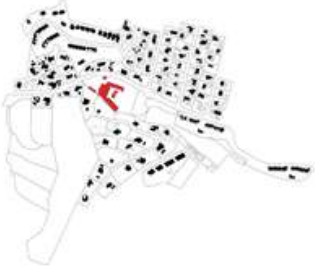
Prototype of a tree house elevated 20 meters above the ground. The structure is anchored to the trunk of the tree, supporting the platform where it is built and also serves as a support for the ladder to climb.

The geometry consists of a rectangle with a pitched roof with both facades, the bedroom and the bathroom, open to the outside. The exterior finish is made of wooden boards and the supports for the structure are made of iron profiles.



[Moraira Hotel Dining Area]

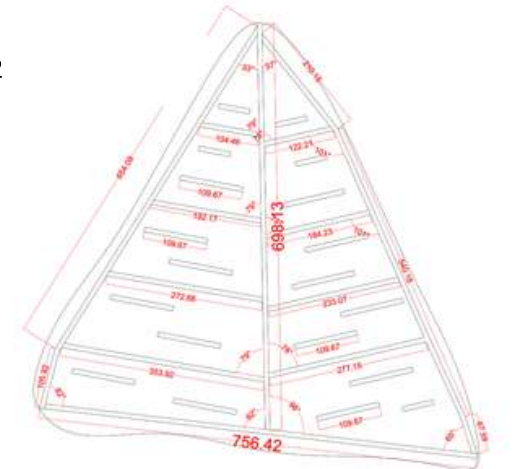
Location: Teulada, Alicante
Year: 2021
M²: 300
Budget: 30,000 €
Client: Hotel Swiss Moraira
Collaborators: Naturwood



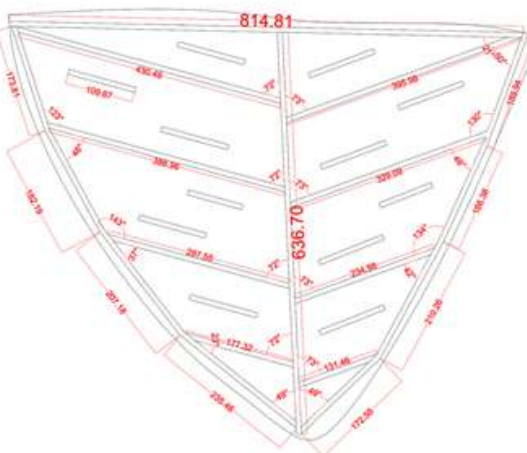
Leaf 1



Leaf 2



Leaf 3



The outdoor dining area project of the Hotel Swiss Moraira is based on three wooden pergolas of different dimensions and shapes that intertwine with each other, generating shade and a warm and welcoming atmosphere.

The finishes are in exposed wood and the roof has linear and circular perforations that let in natural light.

In addition, LED lights were placed in the structure that simulates the veins of the leaves.



[D-Lights]

Location: Madrid, Spain

Year: 2021

M²: 10

Budget: 100,000 €

Client:

Collaborators: Casa Decor, Simon Electric, Protopixel, Shima Seiki, Gavipunt, Bocs i drons



The work is an immersive experience where the spectator is also part of the conversation with the space. The drones from Bocs i drons, whose inner programming is a relatively new technology, fly over this thread shell, which is made of 2 arches that surround visitors and give way to a choreography linked with the lighting elements that are integrated inside. The changing colours of the light integrated in the fabric, which are synchronised with the sounds of nature, submerge the visitor in a forest.



[Beds of Flowers in the Sky]

Location: Palacio de Orive Courtyard, Córdoba, España.

Year: 2022

M²: 126

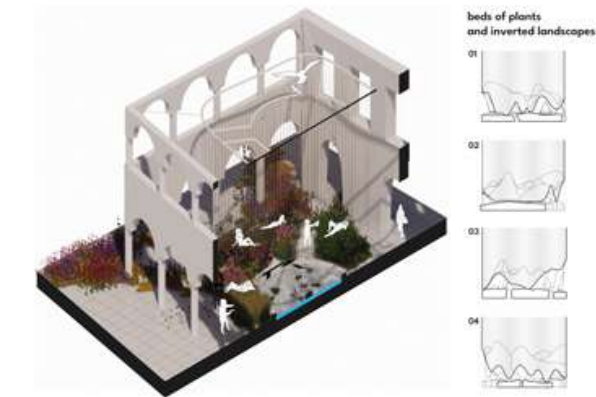
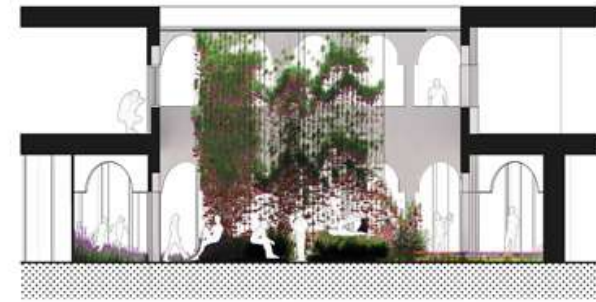
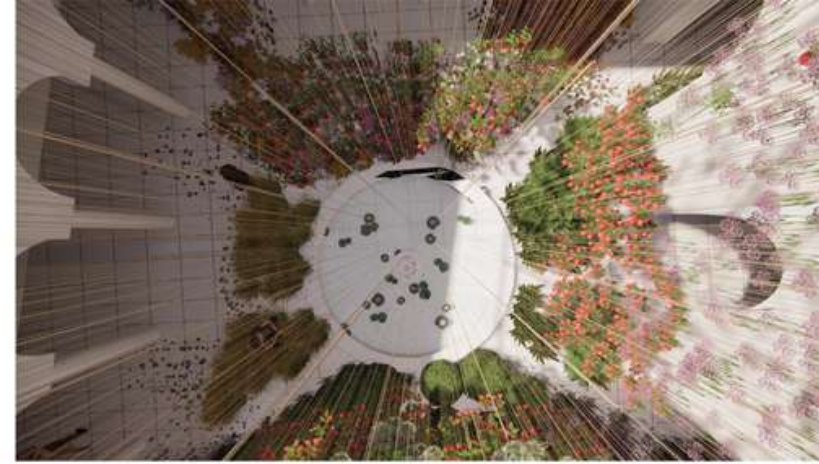
Budget: 100,000 €

Client:

Collaborators: Guguiarte,
Cordoba Ciudad de las Ideas

Beds of flowers in the sky proposes an experience where nature and visitors become interconnected with all senses, touch, smell, sound and palette of colours in constantly evolving geometry. Beds of moss shaped in small delicate hills are placed underneath an inverted landscape of flowers, grass, little shells and little fireflies lights. From different points of the courtyard arches small rivers of flowers pour towards the moss Beds, creating non regular paths where visitors feel they found the bed of flowers by chance. The hilly landscape of moss Beds invite people to lay down or seat to experience the floating nature.

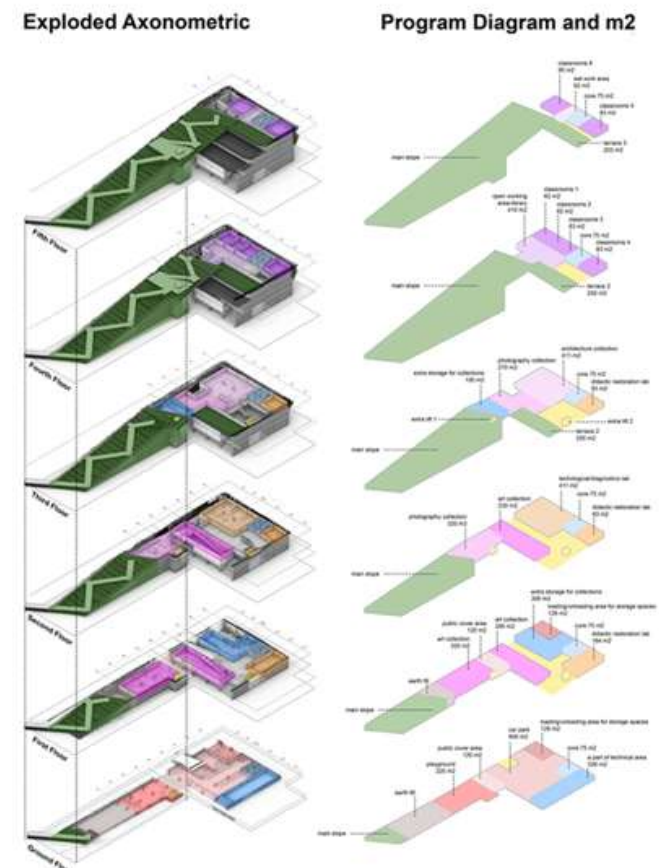
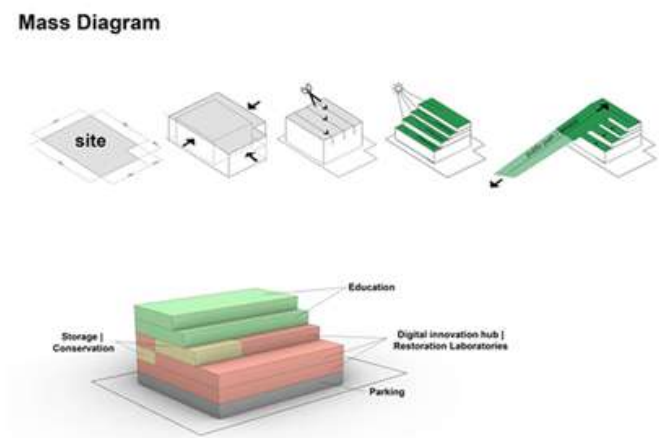
The agents are activated according to a choreography change change everyday where sounds of inverted landscape, lights, smells are activated at different moments and different intensities. Mini winds along the strings of flowers are activated according to some melodies creating a merging environment where all senses react to this artificial/spontaneous pieces of imaginary geographies in constant metamorphosis.



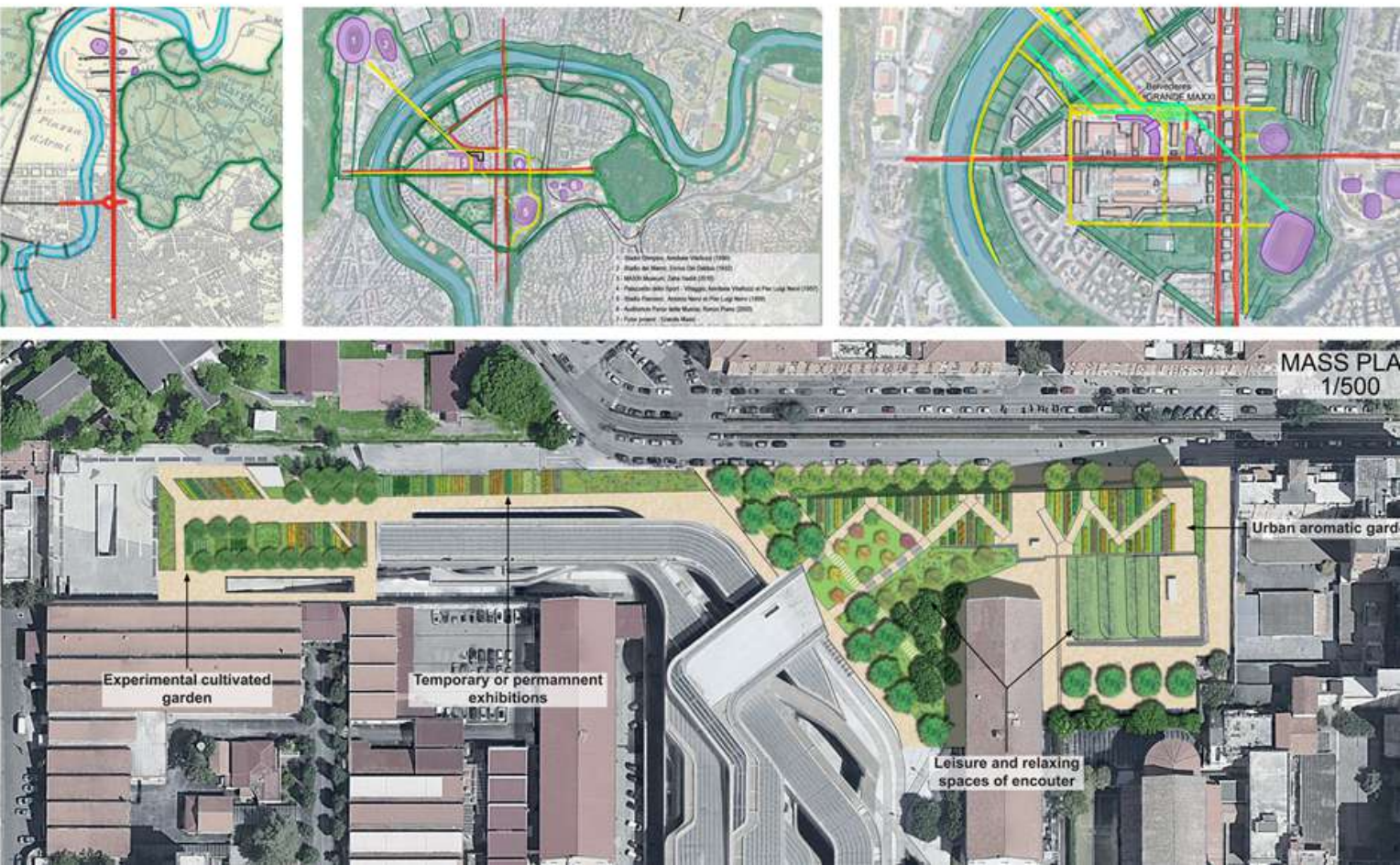
[Grande Maxxi Museum]

Location: Rome, Italy
Year: 2022
M²: 2600
Budget: 15,000,000 €
Client:
Colaborators: AKTII, Landscape: Atelier
Alain Marguerit

Maxxi Grande is an opportunity to create a new kind of green urbanity combining new technologies for improved cities' sustainability and people' well being. Materialized in a new building merged in a landscape system where a digital innovaton hub, a center of excellence for the restoration of contemporary art and open to the public art storage area are interconnected in a fluid and accessible way outside and in the direct environment of the new construction.

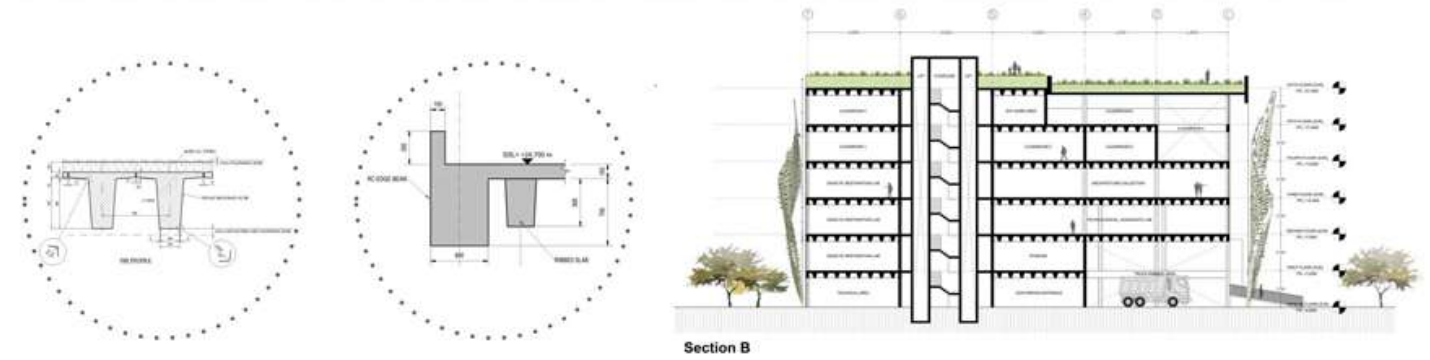
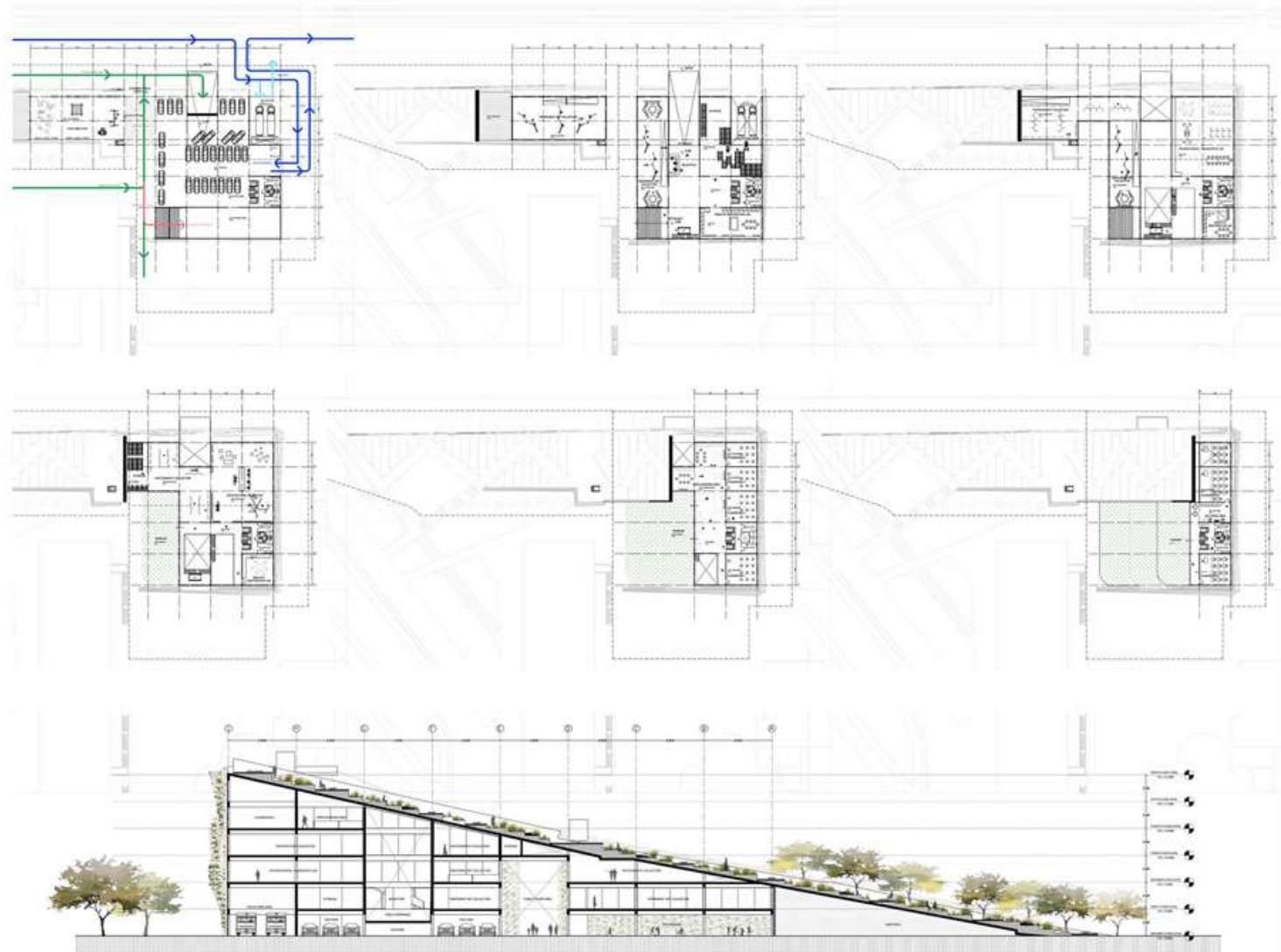


Part of the new landscape is materialized in the envelope of the new strong connection agent within the small urban scale of Maxxi and in the wider context of Rome including the River Tiber offering playful and pleasant mundane activities within the new open squares and promenades. Main objectives include offering a more diverse vegetation including edible and olfactive well for different climbing plants and some areas of this mesh will be planted with more experimental



[Grande Maxxi Museum]

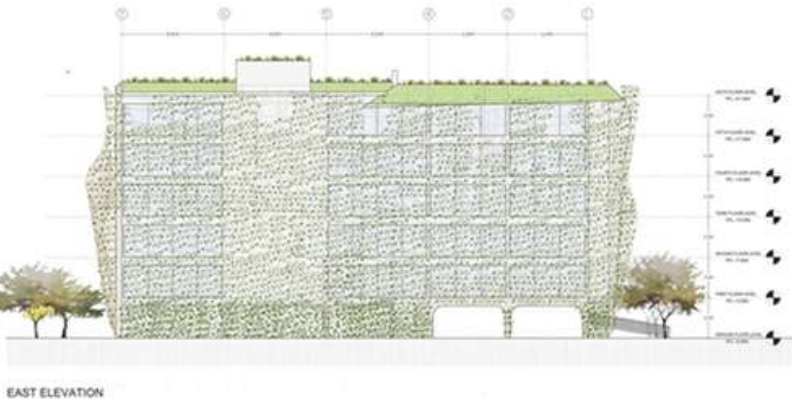
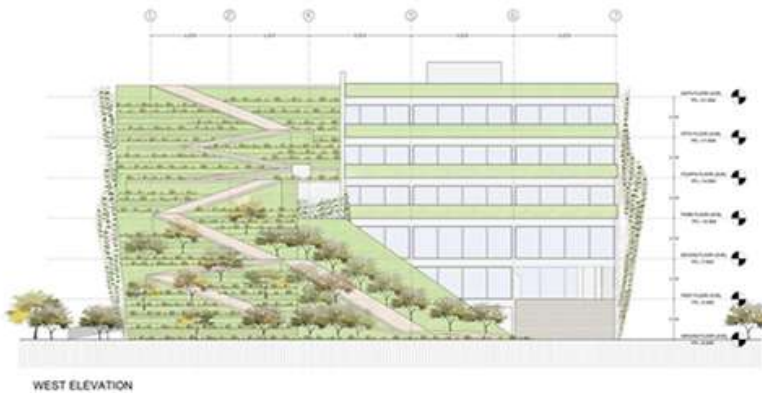
The new building has been designed to be combined with the landscape project set in stages for affordability and better thriving of species over the years. It features a double skin and a contemporary wooden trellis for 2 sorts of climbing plants.



Vegetal used as a material for the very design of Building A offering new collective and playful spaces/activities and open Maxxi to an even larger general public, for Rome citizens, tourists, enjoying a much improved part of the city thanks to the large sloped clearing/like leading to enjoying views on the whole city from the top of Building A.

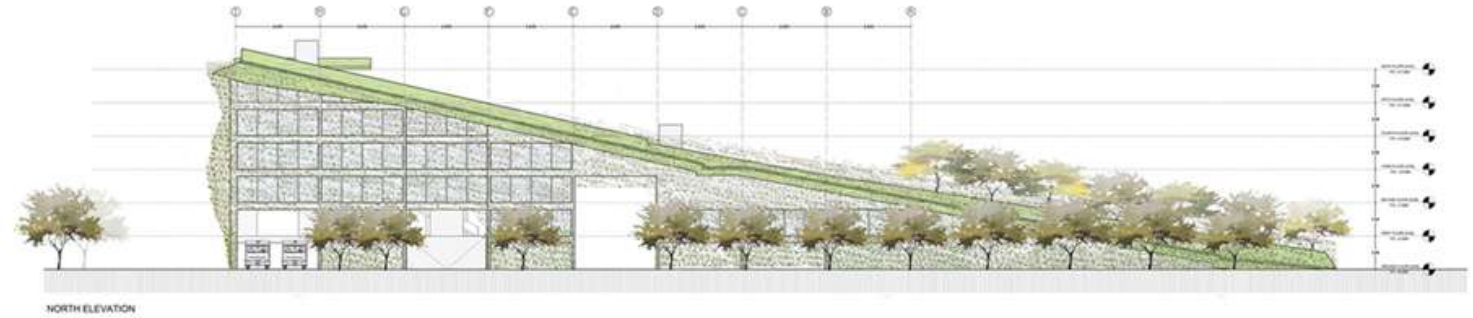


[Grande Maxxi Museum]



The innovation hub, the center of excellence for training in contemporary art restoration and the storage areas open to the public constitute the 3 main entities of the building. The 3 kind areas have been designed in a very connected way with a large number of common halls. Storage of art collection and open to the public art collection give directly on Via Masaccio.

The collections are present in the different areas of the building including underneath the clearing like slope. A Sculptures open space underneath the slope is mixed with some temporary playgrounds that can be renewed once a year. The classrooms will have bright views on the city and some of them access to a private terrace.

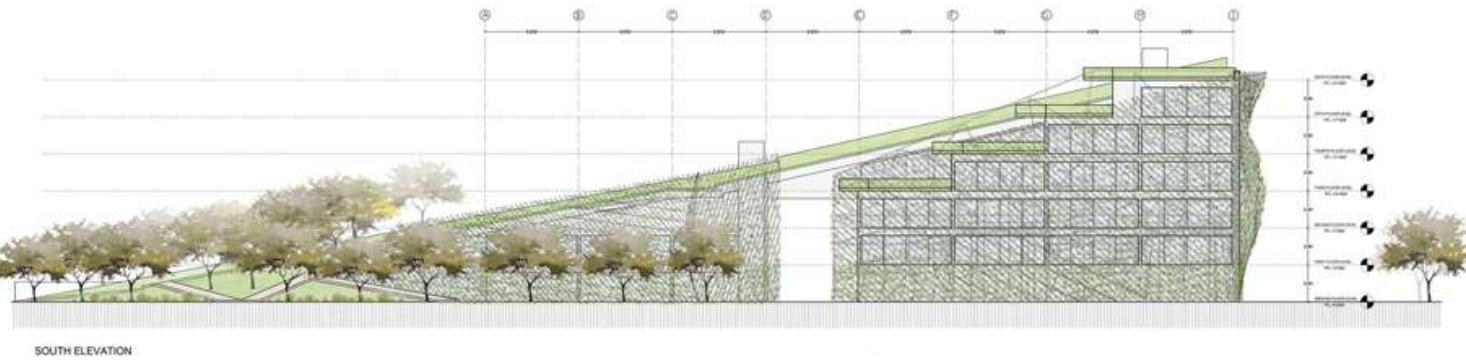
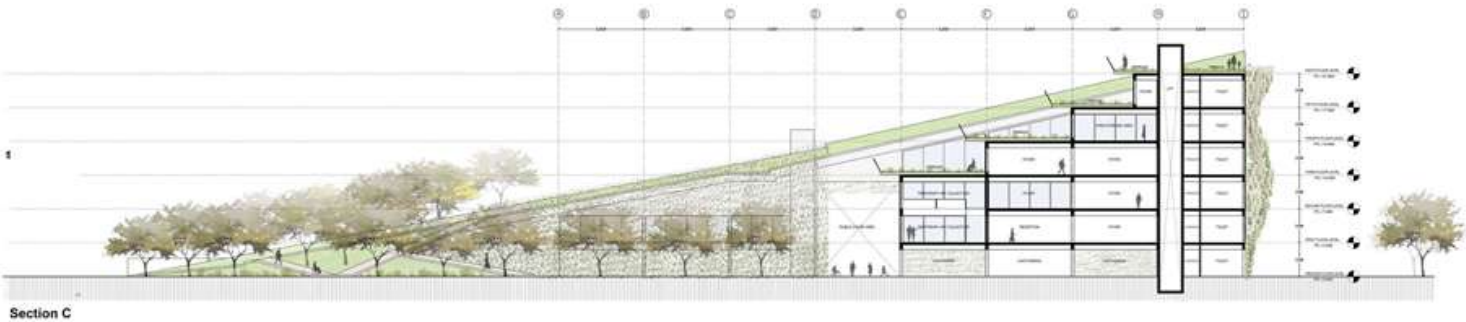


[Grande Maxxi Museum]

The building primary structure is a regular 7 m grid and equipped with large windows behind the wooden trellis. All building components and systems are expected to support sustainability, as have procurement, construction methods and specifications. All significant fixtures are of durable construction and capable of repair, dismantling and reuse where relevant.

The proposed extension building consists of an insitu reinforced concrete frame arranged on a 6m x 15m maximum orthogonal grid. Reinforced concrete columns and beams are set on grid and support either RC ribbed slabs or RC flat slabs depending on the spans and the use of the spaces. A number of reinforced concrete circulation cores are distributed at the corners of the building and provide lateral stability to the frame. In addition to the large spans the primary drivers and aspirations considered for the choice of floor system have been as follows:

- To meet the architectural aspirations with respect to layout,function and aesthetics
- Overall permissible structural zone
- Exposed concrete soffits
- Thermal mass of the floors
- To minimise the building weight



[Zaragoza Housing]

Location: Zaragoza, Spain

Year: 2022

M²: 690

Budget: 3,000,000 €

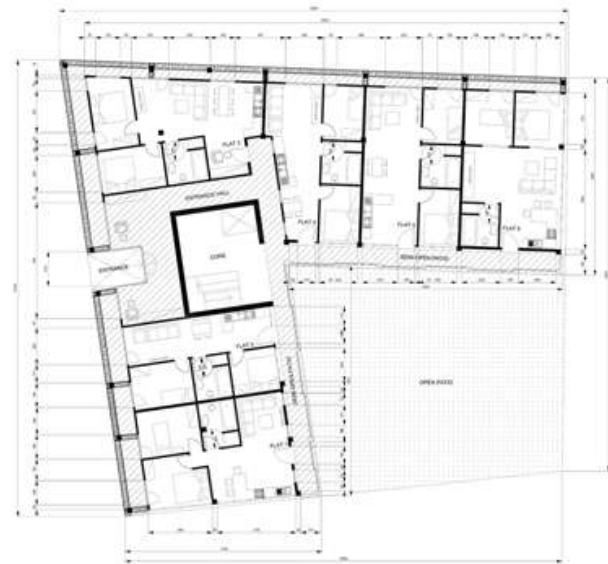
Client: Zuera de Gestión Local S.A

Collaborators:



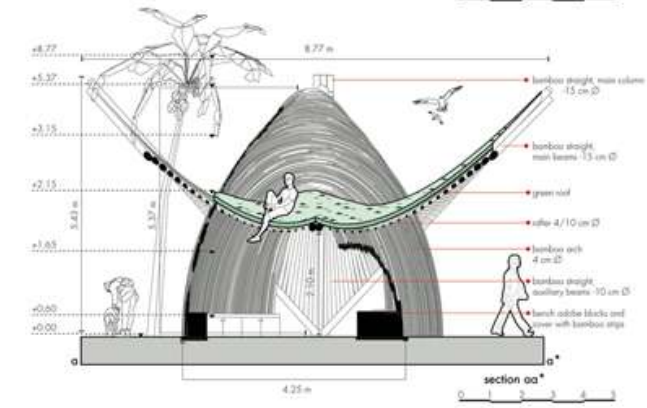
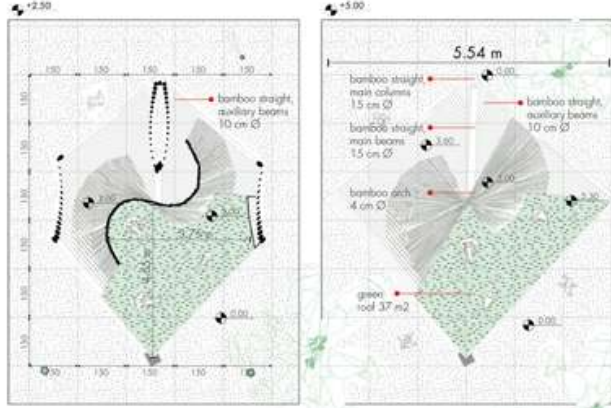
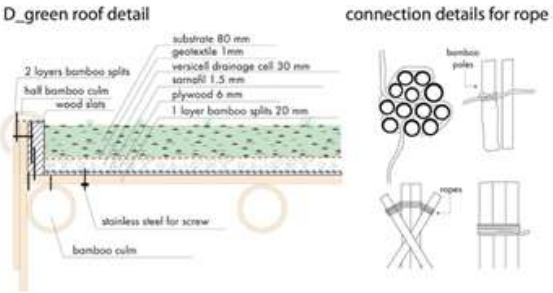
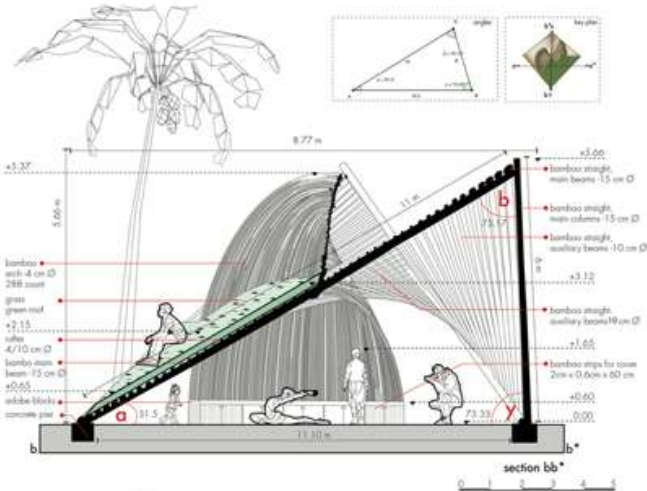
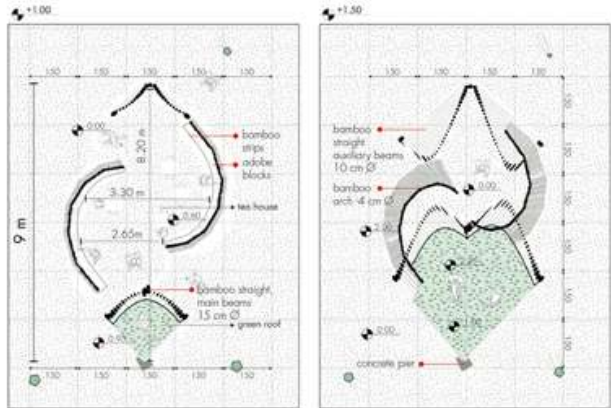
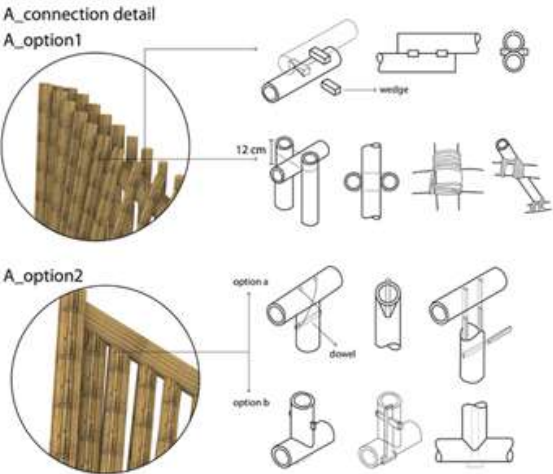
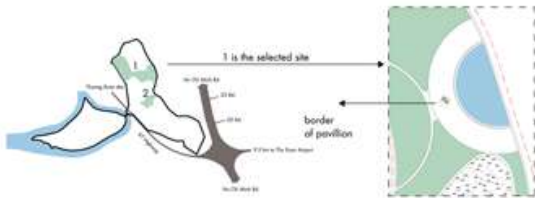
The Zaragoza Housing project is born from an abandoned concrete structure that is to be recovered to make a housing complex.

The main challenges are the design of the parking lot with the structure already made and the distribution of the apartments on the ground floor and first floor so that they all have good natural lighting and ventilation, either towards the street or the interior patio.



[Bamboo Pavilion]

Location: Vietnam
Year: 2022
M²: 40
Budget: 25,000 €
Client: World Bamboo Workshop
Collaborators:



Project for the competition of a bamboo pavilion for the world workshop organized in Vietnam.

The design is based on two bamboo structures that, when crossed, generate an organic and welcoming shaded space. One of the structures is only with thick straight bamboos while the other has a curvature made with thinner elements. A part of the roof is green and accessible.



[Senegal Secondary School]

Location: Senegal

Year: 2022

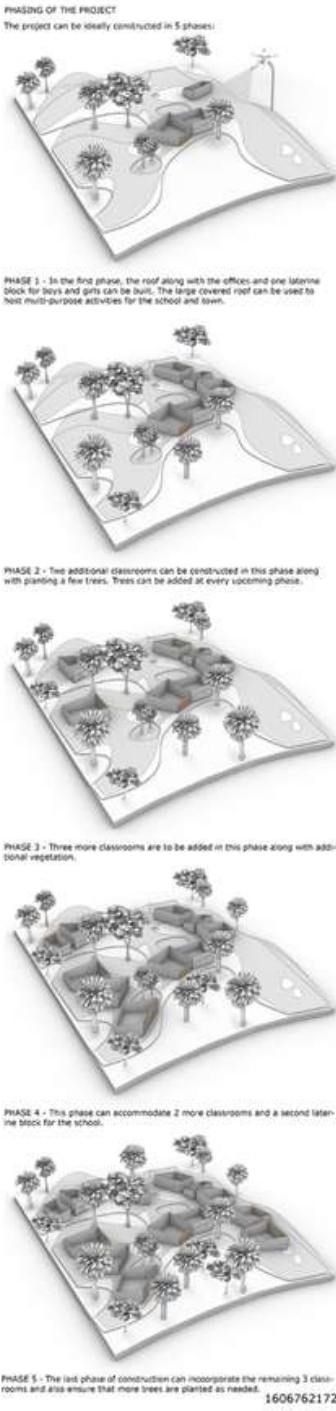
M²: 4800

Budget: 5,000,000 €

Client: ONG Kakolum

Collaborators:

School project in which architecture aims at reflecting on positive social interactions, shedding a light on the beauty of local materials and traditions using new technologies. The architecture project aims at being a social project too where the younger generations can learn new technologies of robotics and construction with the power to revive and make possible the beauty of unbaked materials and very traditional methods and revisited aesthetics.

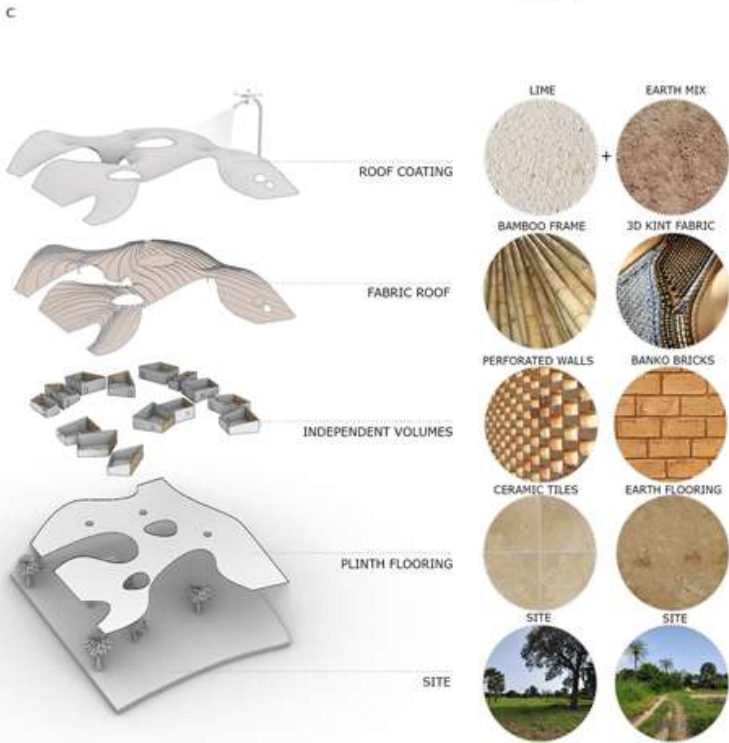
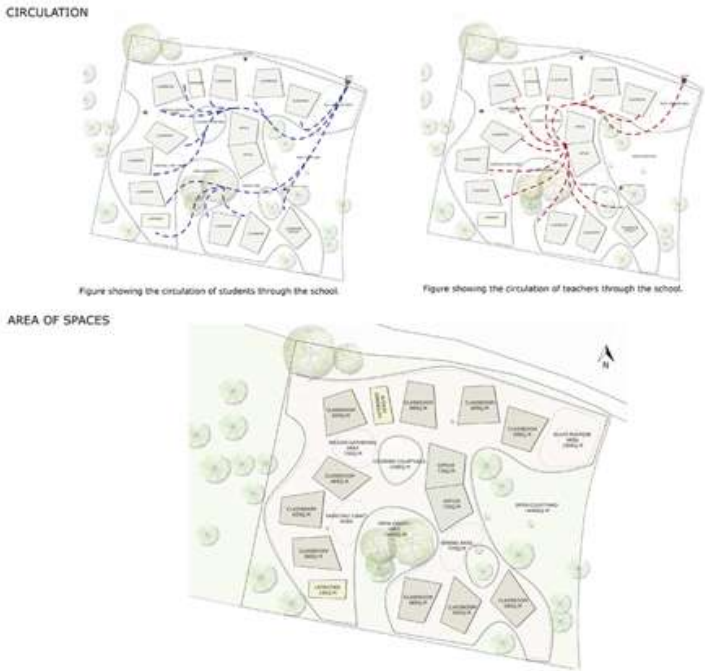


SECTION AA



SECTION BB

[Senegal Secondary School]



The architecture and its edifications combine local earth, sands and fibres with drone spraying technology on stay in place fabric formwork.

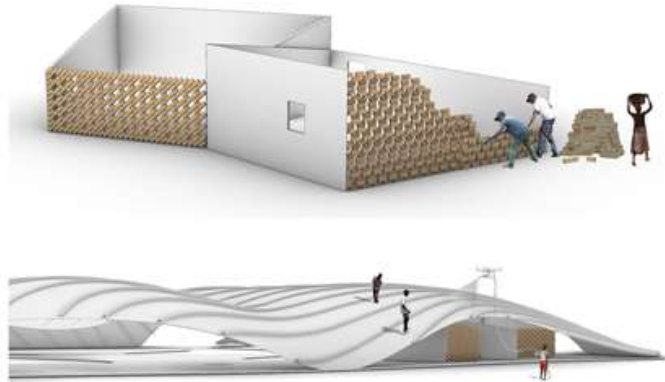
A large smooth canopy with soft curves covers diverse smaller volumes creating diversity of 'In between' spaces. All structures are independent for ease of construction, to facilitate a flexible construction phasing and to have a maximum natural ventilation.

The classrooms are built as an archipelago of small independent volumes built with moucharabiehs placement of adobe bricks dried in the sun. For an increased freedom of moucharabieh design we propose to use and transmit knowledge of HoloLens where workers can place the blocks as they see it in the 3d image.



[Senegal Secondary School]

The large stay in place fabric formwork uses 3d knitting technology where the local patterns of clothing are interpreted into a large bespoke, programmed fabric from work to be coated on the upper side with earthen mixes. The fabric formwork is tensed over bamboo or curved rib bars and posts structures depending on what will suit the overall budget.



[Senegal Secondary School]

The earthen mixes for the coating of the large canopy contain lime powder and linen oils that can be renewed with the drone spraying technology everything as a crowd gathering event. The white coating helps keeping the school cool even when temperatures rise. It is as well a design choice to contrast with the natural clay colour of the classrooms and offices. The foundations underneath the brick's volumes will be made of 1 row of concrete blocks.



[Moraira Hotel Cabins]

Location: Teulada, Alicante

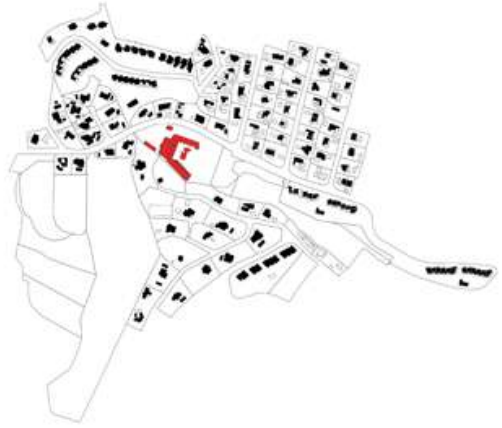
Year: 2022

M²: 2000

Budget: 10,000,000 €

Client: Hotel Swiss Moraira

Collaborators: Biopasiva



Hotel Swiss Moraira offers accommodation on the Costa Blanca surrounded by green areas 5 minutes from the beach.

Next to the hotel there is an empty area where a complex of cabins was designed, interconnected by elevated walkways, following the vegetation and concept of the existing hotel.



The idea is to expand the capacity of the hotel by generating this space with 10 cabins and that can make use of the existing services.

The huts are supported on iron pillars, making them stand on a high level.

The ground floor can also be traversed and used as a public space for hotel guests.



[Kids Cabin]

Location: Around the World

Year: 2020

M²: 15

Budget: 2,670 €

Collaborators: Fustería Digital Fablab



The Kids Cabin, developed by MuDD Architects together with Fustería Digital Fablab, is a product made out of sustainable pine that shows off its wooden texture in the walls of the cabin.

The soft curves of the design invite children to enter a space which they will be able to personalize according to their imagination. It has aswell a green roof and one of the facades can be used to cultivate different species of plants.



The cabin comes in a kit with all the necessary pieces to be built and assembled by each user. You can easily find it in the design shop of MuDD Architects in our website.