

# Africa Youth Sport Training Center



# Containing Hope

through  
Sport

St. John Paul II  
Africa Youth Sport  
Training Center



*«Sometimes one feels pleasure in doing bad things, but the pleasure passes immediately and the bad remains. Doing good takes effort but **the fatigue passes and good things remain.***

*The positive action endures peace of conscience, the satisfaction of feeling Good and **the pride of victory**»*



[St. John Paul II]

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# Chapter A

Sport for Social Change

Background

7

# The Power of Sport

## *A Force*

to Change  
to Educate  
to provide Health  
to hit the Goals



# Sustainable Development

Sport remains a powerful force for change.

Through Sport, we can attract, motivate and inspire young Africans to take action and responsibility in order to improve their health and well-being.

Sport improves health in two ways – direct participation, and indirectly, as a spectator, acts as a powerful platform to communicate important messages about health, such as in history, sports always played an incredibly powerful role in educating individuals and communities.

Additionally, sport carries ideas and values.

For Africa's most young population, sport provides an effective means to not only improve health but also acquire necessary life skills. There is always the need to build stronger partnerships between athletes, young people, sports institutions and political leaders to create more spaces and fully realize its true power – its force for change towards a sustainable development in Africa.



# Chapter B

Transformative Power of Simplicity

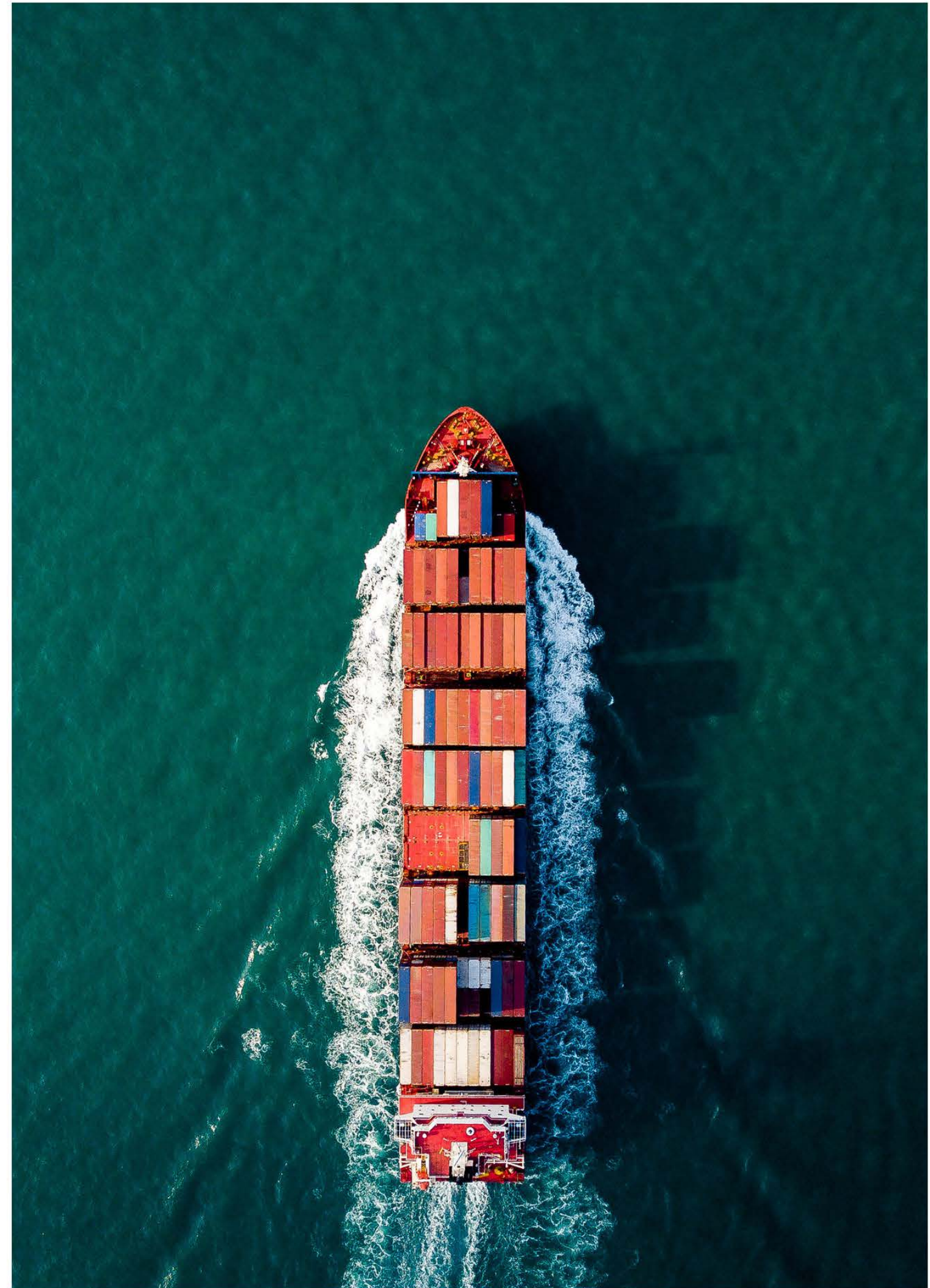
Approach

13

# From Shipping Container to Community

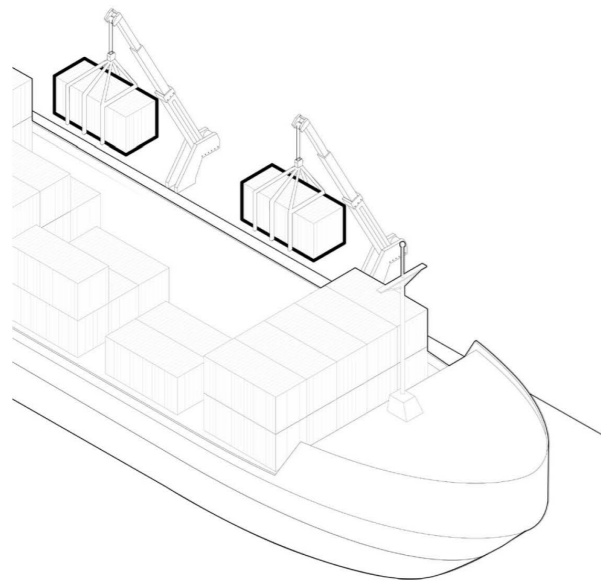
*Reduction of on-site manpower*  
*Quick assembly and disassembly*  
*Sustainability and energy efficiency*

Responding to the client's demand for a structure that could be fast tracked, "Shipping Containers" are the optimum option due to their fast and easy construction as well as their sustainability (use & re-use) and durability.

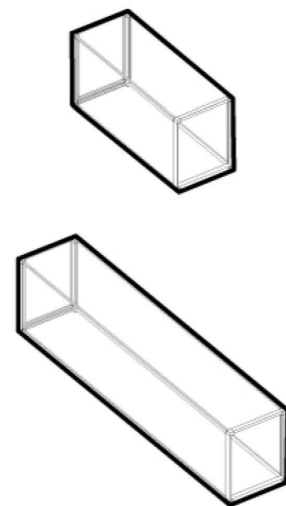


# From Utility to Flexibility

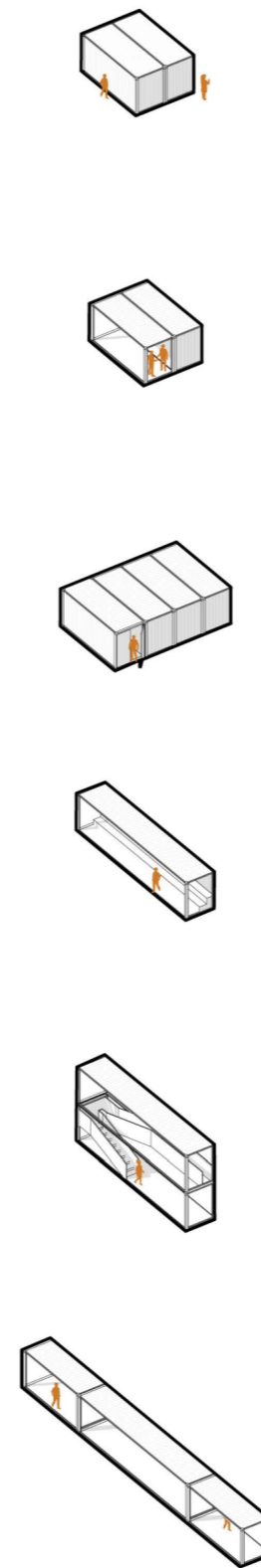
The converted containers of "Youth Sport Training Center" in Africa are living proofs of the transformative power of simplicity, with low-cost and sustainable initiatives, they bring lasting positive changes to the community.



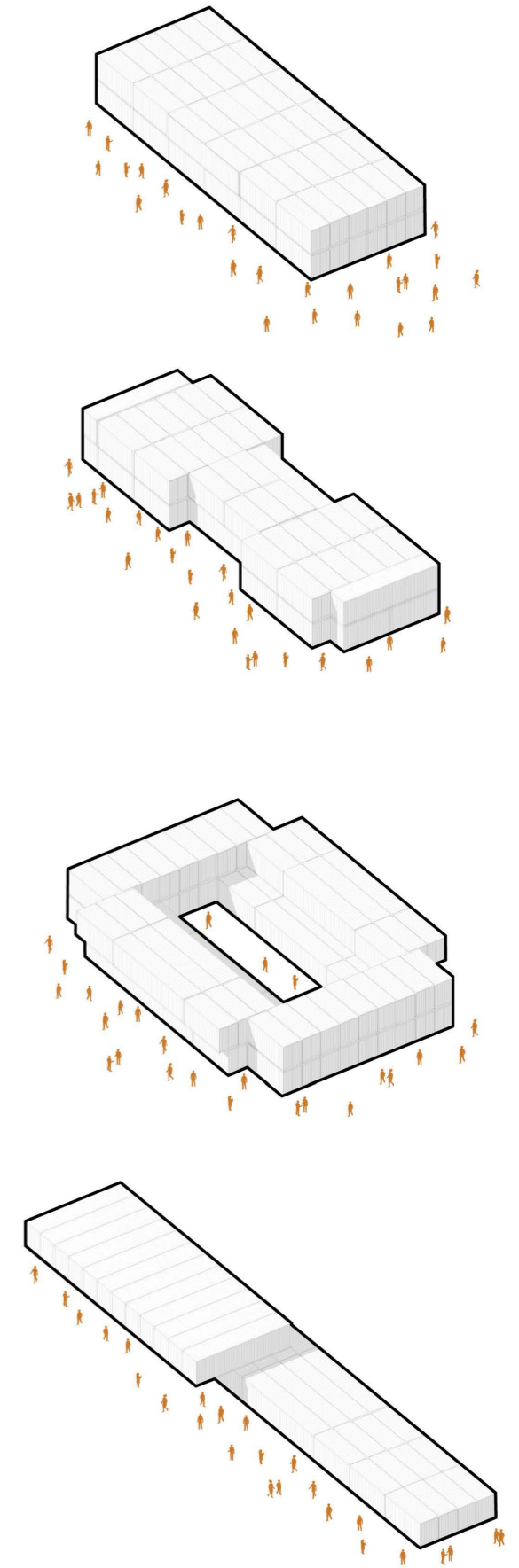
**Utility**  
Container



**Rigidity**  
Structure



**Possibility**  
Valuable space



**Flexibility**  
Comunity

# Chapter C

Focus on Design: 360° approach

## Project

19

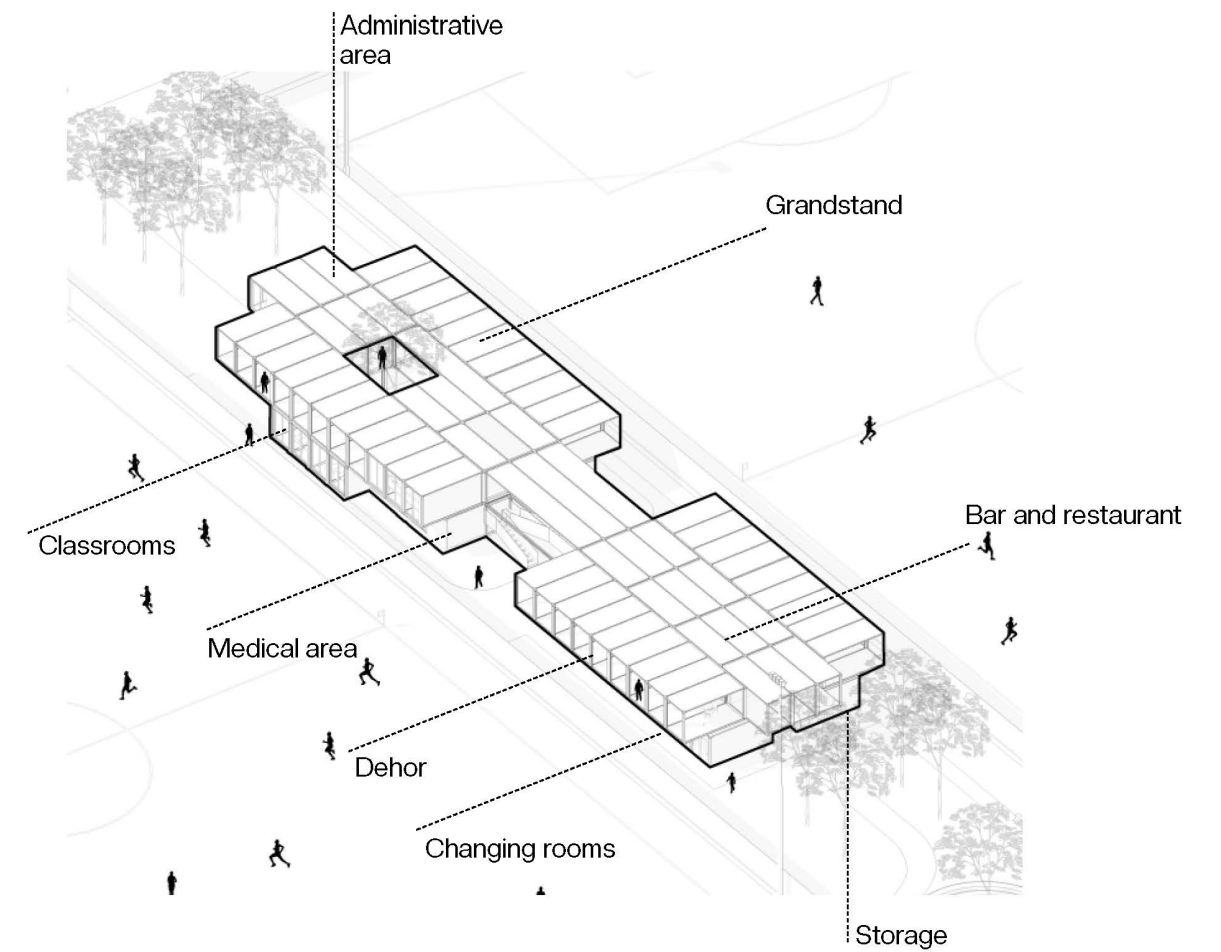
*Masterplan*  
*Functional Program*  
*Ebb & Flow*  
*Visibility*  
*Protagonist #1 - Staircase*  
*Protagonist #2 - Internal Courtyard*  
*Environmental Approach*  
*Materials 4D*  
*Plan - Ground Floor*  
*Plan - First Floor*  
*Axonometric View*  
*3D Views*

# Masterplan

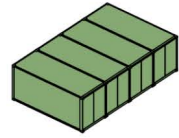
An area of 4 hectares for social gatherings, with two 100x70 meter football pitches, a central service block, a park & a sports fitness trail.



- LEGEND**
- 1 Parking
  - 2 Kitchen area
  - 3 Sport life path
  - 4 Playground
  - 5 Football field
  - 6 Waste area
  - 7 Central service block
  - 8 Grandstand

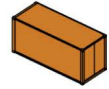


Changing rooms



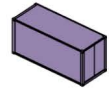
× 4  
240 sqm

Storage



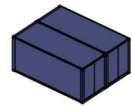
× 4  
240 sqm

Public Bathrooms



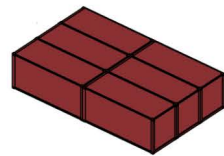
× 2  
30 sqm

Classroom



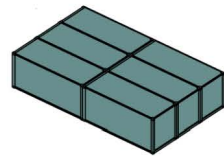
× 4  
120 sqm

Administrative area



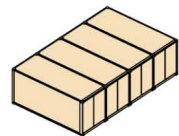
× 1  
100 sqm

Food court



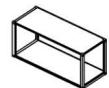
× 2  
200 sqm

Medical area



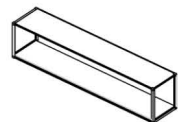
× 2  
120 sqm

Covered Open Space

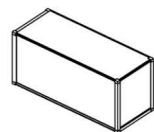


× 52  
780 sqm

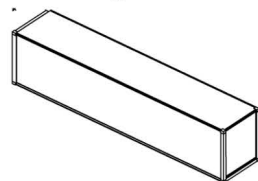
Distribution



× 7  
210 sqm



× 120  
6,10 x 2,42 m  
1.800 sqm

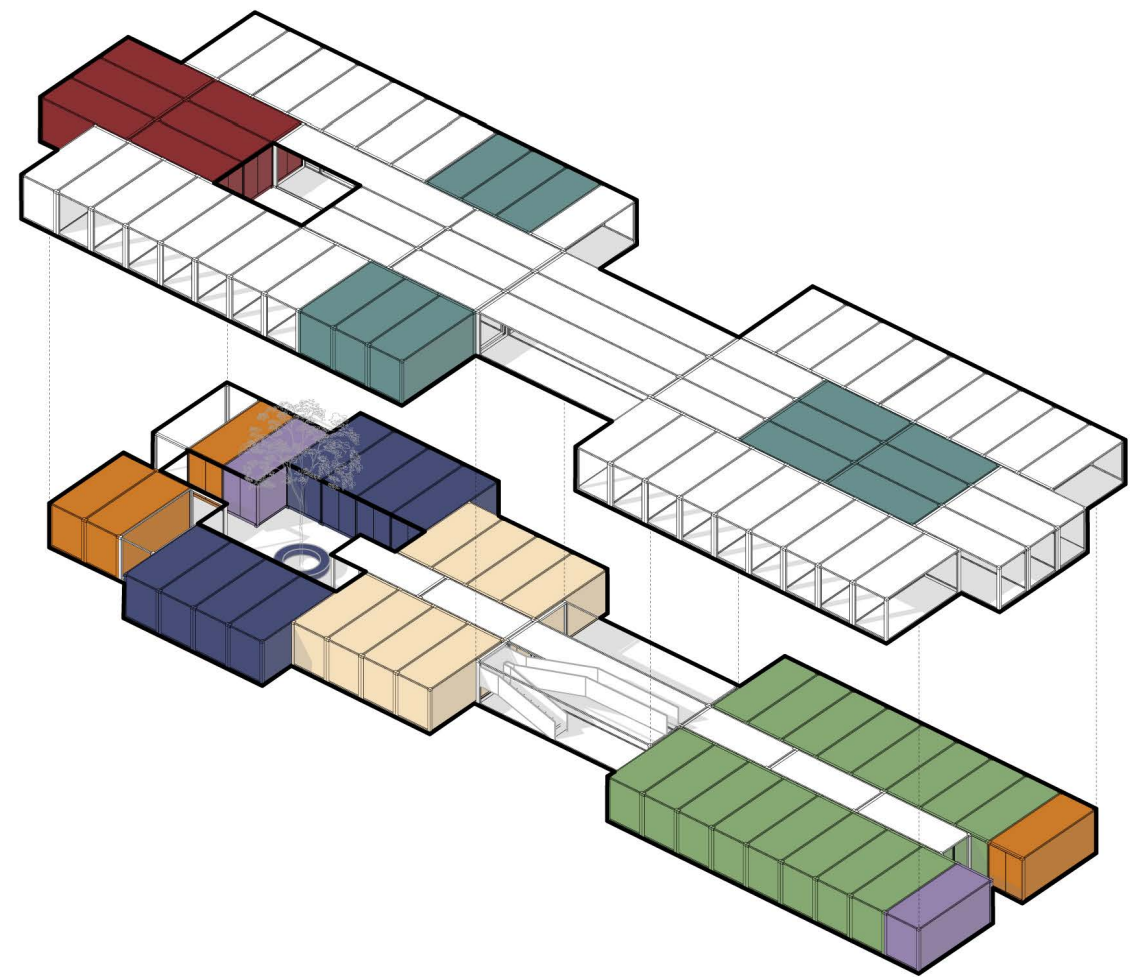


× 7  
12,20 x 2,42 m  
210 sqm

# Functional Program

The project comprises 127 shipping containers, (120 of the 20-foot module and 7 of the 40-foot module), that are stacked up and put together to form a 2-storey sports facility. The facility serves young players, their families and coaches along with the facilities' management team.

The ground floor consists of changing rooms and cloakrooms, a clinic, and classrooms. The upper floor consists of administrative offices, a meeting room, restaurant and coffee bar, all with direct panoramic views of the football fields.



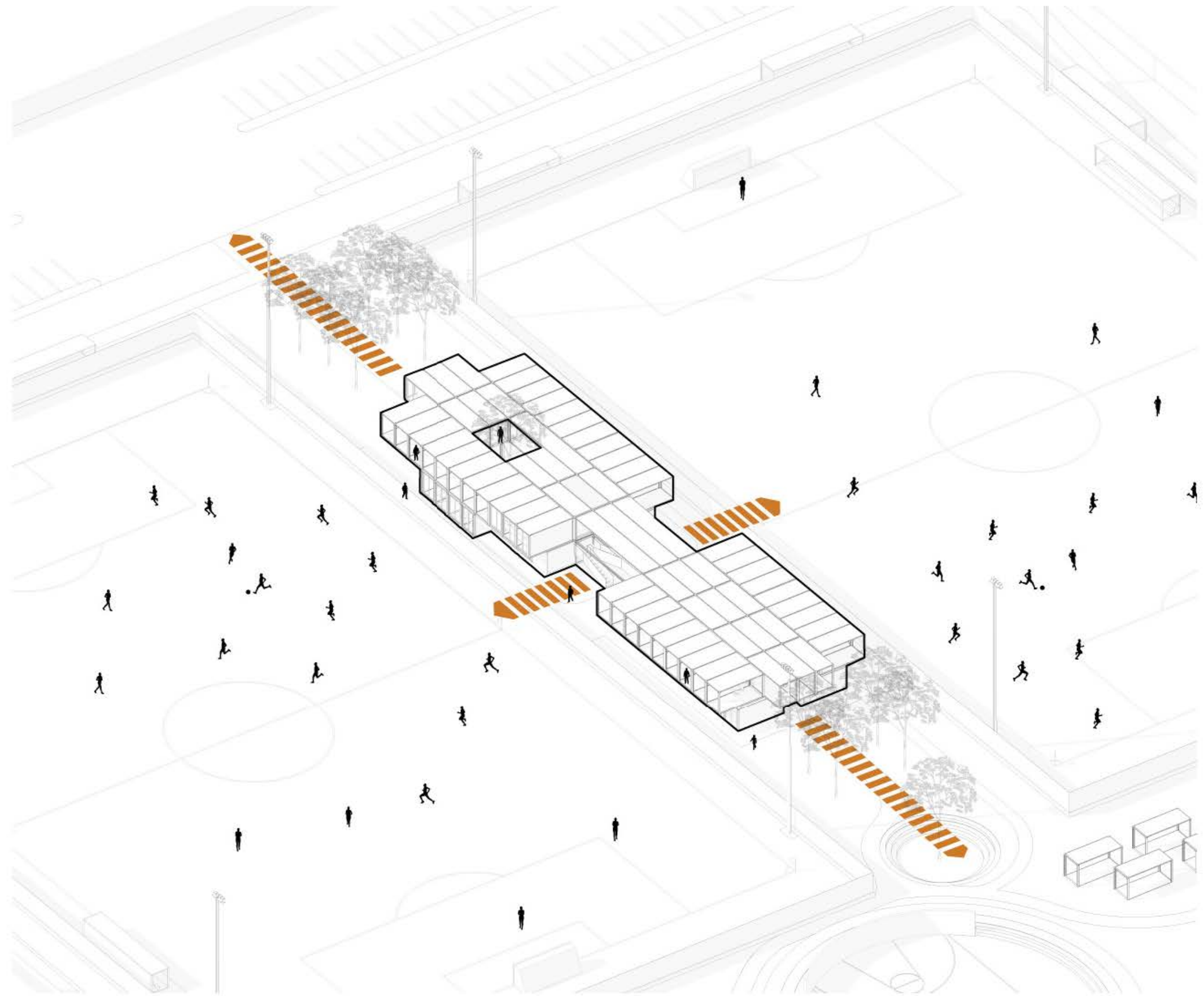
# Ebb & Flow

The main objective of the project is to create a constant "physical" and "visual" relationship between all the elements of the context.

Firstly, through the creation of the central void, the project behaves as a "connection node" between the two football fields.

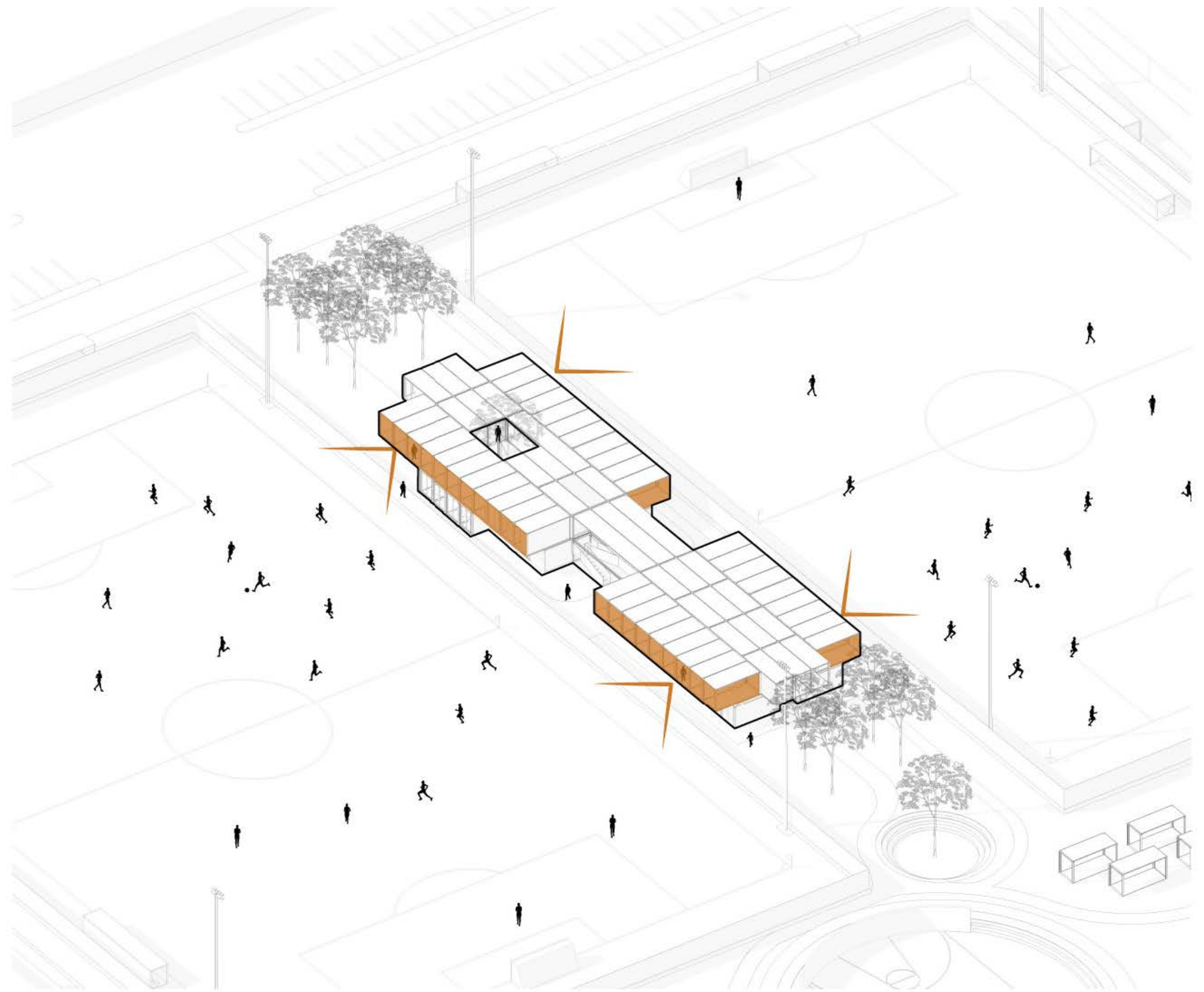
Secondly, the project acts as an "intermediate structure" between the two football fields and the park.

Thirdly, through the distribution of common spaces in the upper floor such as Bar/Bistrot, offices, restaurant, the collective spaces have a major **visual** connection with the football fields.



# Visibility

The design is defined by its iconic cantilevered shipping containers which create a shaded outdoor space for the ground floor area where players and coaches meet and socialize, while upstairs has a shaded outdoor space with panoramic views of the football pitches.

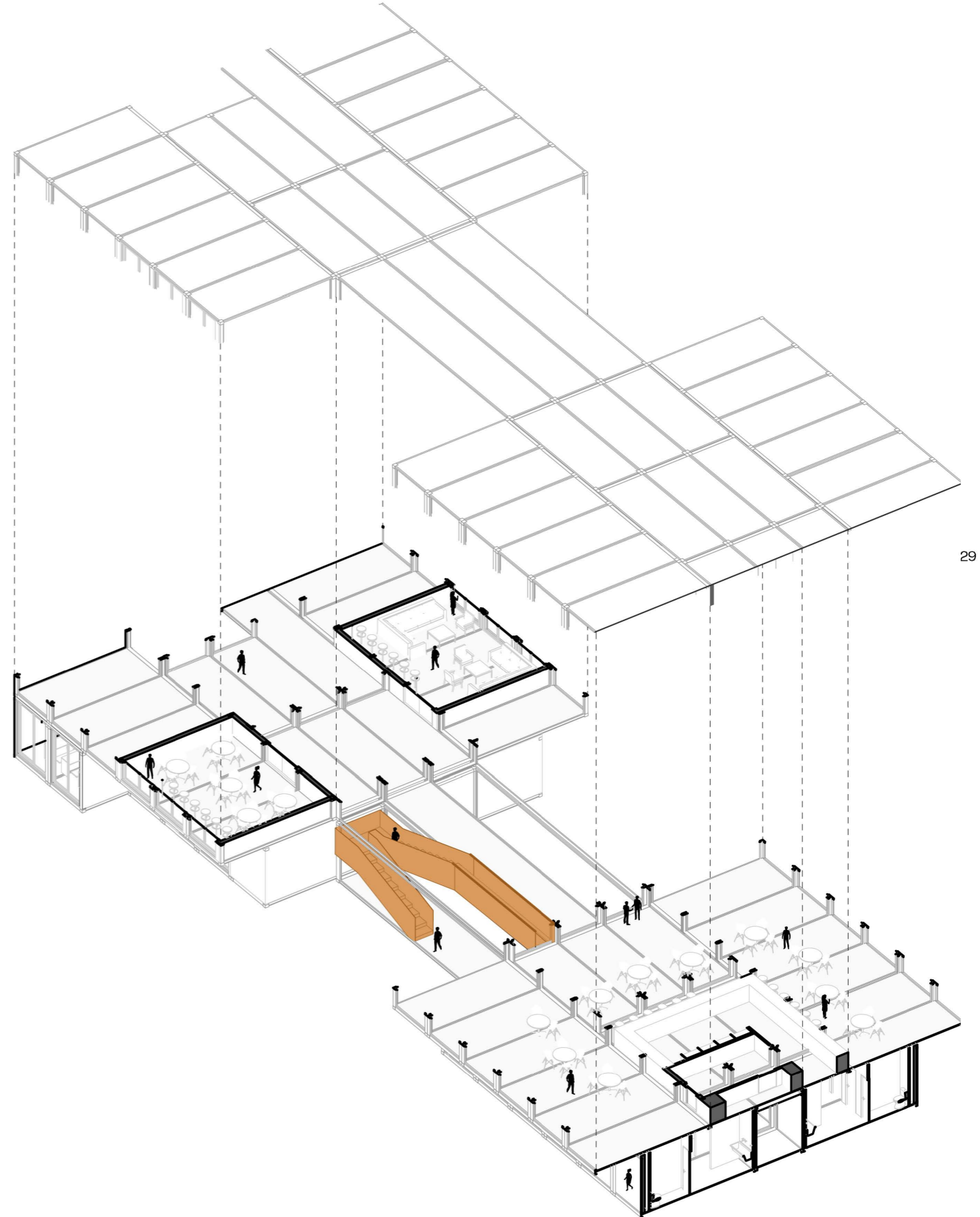
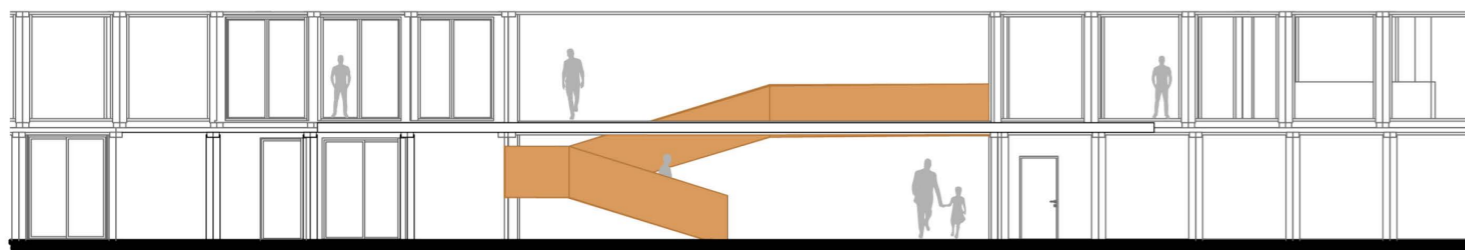


# Protagonist #1

## Staircase

In the context of a repetition in the use of containers, the vertical movement "staircase" is designed as a unique formal element.

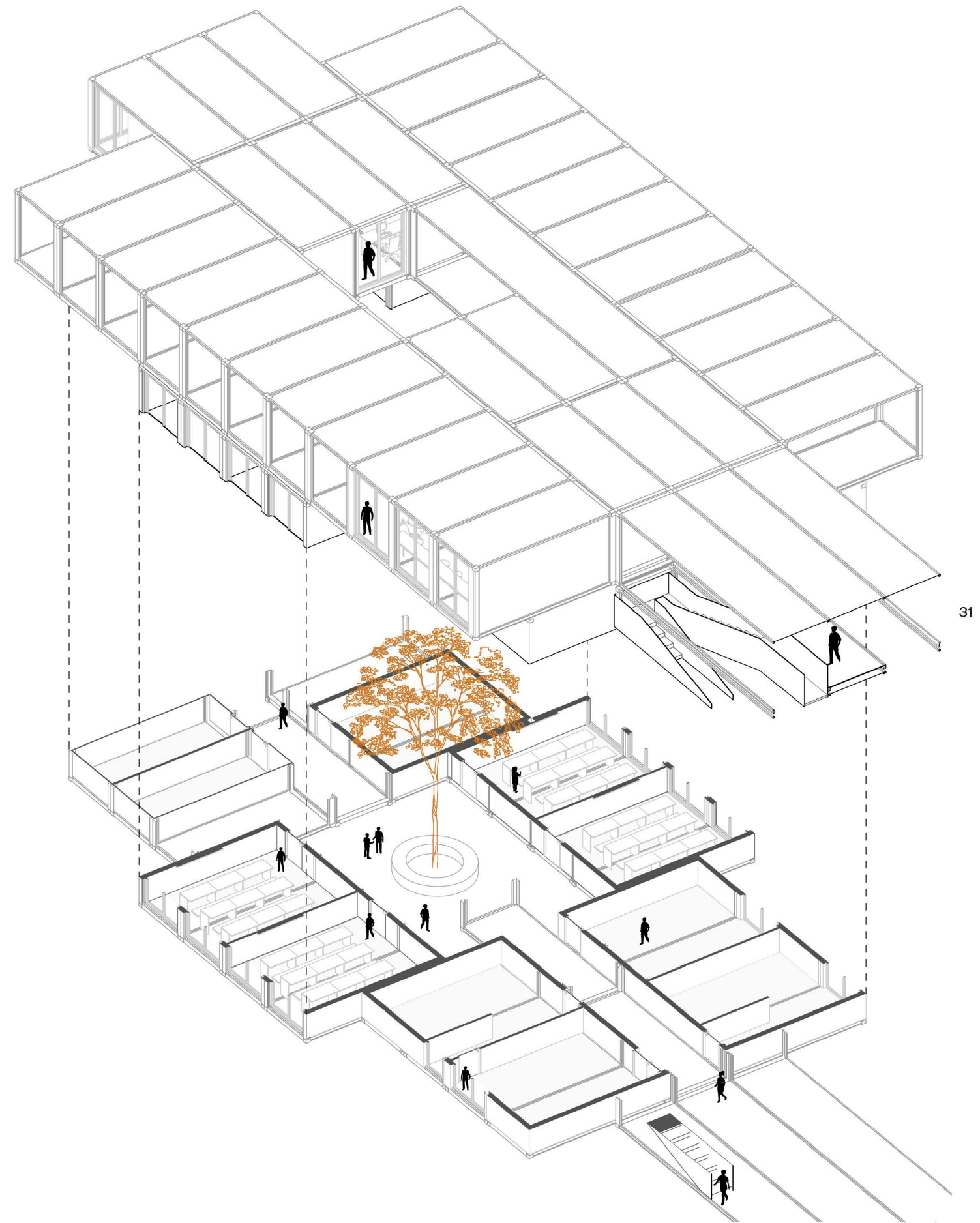
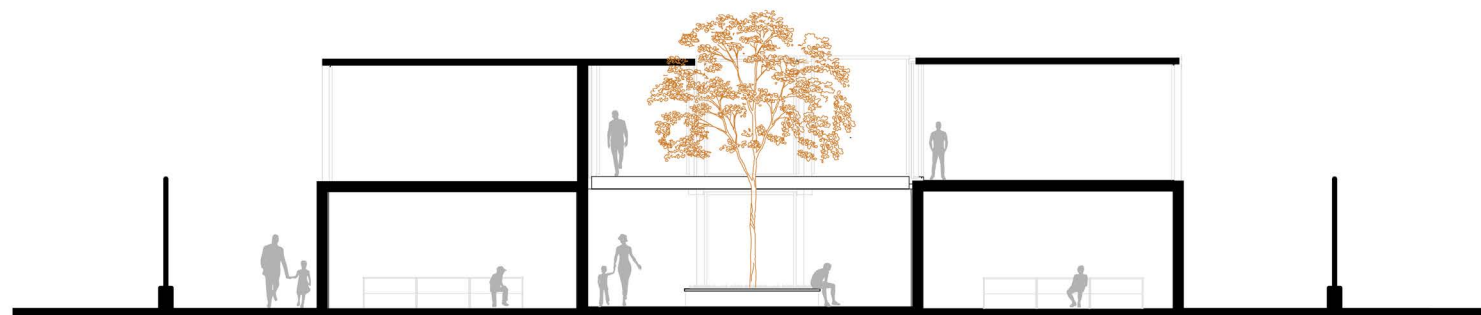
A strong colorful component which becomes the first protagonist of the project.



# Protagonist #2

## *Internal Courtyard*

The second protagonist is established as an internal Courtyard, a defined "void" which not only provides a generative & ventilated space between built-up blocks, but also creates an open space targeted for the breaktime of the classrooms.



# Environmental Approach

## Using technology to achieve a self-sufficient environmental comfort

The solutions & systems that are proposed, ensure accurate management of environmental comfort through targeted and calibrated systems, and as far as possible, the self-production of electricity as well as limiting the supply of sanitary water.

### Electrical Energy

The building will be connected to the electricity grid in the area. In order to limit the energy withdrawal from the network and to make the property as much as possible self-sufficient, photovoltaic panels will be installed on the roofs and over the car park canopies. The produced energy will be used for the supply of cooling machines, the service plants and for the lighting of the building itself.

In the event of a power failure, a small generator unit will be mounted in order to guarantee the temporary operation of the structure.

The outdoor lighting will be realized by means of lighting fixtures with LED source, mounted on a pole, totally "Stand Alone" type, powered by solar panels integrated in the structure. Inside the base of the individual poles there are storage batteries that allow the operation of the same.

All these luminaires are connected to each other with a wi-fi network, which allows the programming of the ignition and the modulation of the flow during the night.

The same technology will be used for the video surveillance system, with cameras mounted on top of the lighting fixture. The lighting of the soccer fields will be realized with specific LED products.

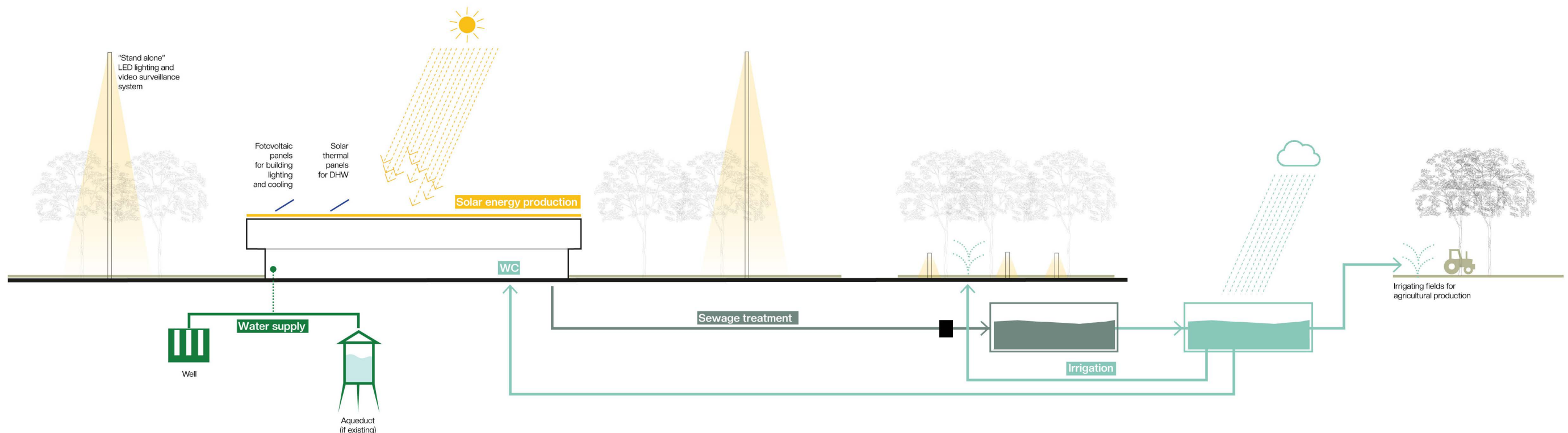
A solar thermal system will be installed on the roofs, for the production of domestic hot water to serve the showers of the changing rooms.

### Water Supply & Sewerage

The supply of sanitary water is provided by the water network of the city. Eventually, a water well will be provided, with treatment of the water taken for the sinks and showers.

The water used for irrigation and for WC cisterns, called "grey water", will come either from meteoric water, then collected in tanks, or from waste water, suitably treated and then conveyed in dedicated tanks. In this way the tank serving the gray water will never be empty. This water can also be used for irrigation to serve the cultivation of crops.

Given the uncertain presence of the sewerage system, the water coming from the waste (black water and grey water) will be treated by underground "purifiers". This system, in parallel with the collection of rainwater, will allow the reuse of water for irrigation of outdoor areas, cleaning of photovoltaic panels and supplying the WC cisterns.



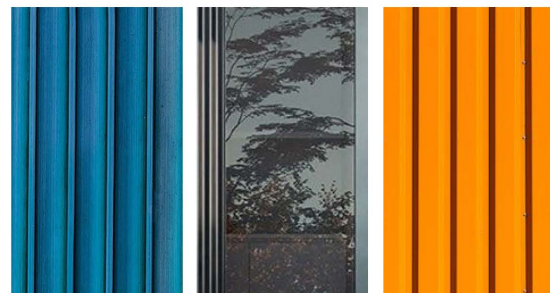
# Materials 4D

Materials and colors are the two inseparable realities of every project.

Materials that are easy to be transported and mounted, and at the same time in harmony with the "context".

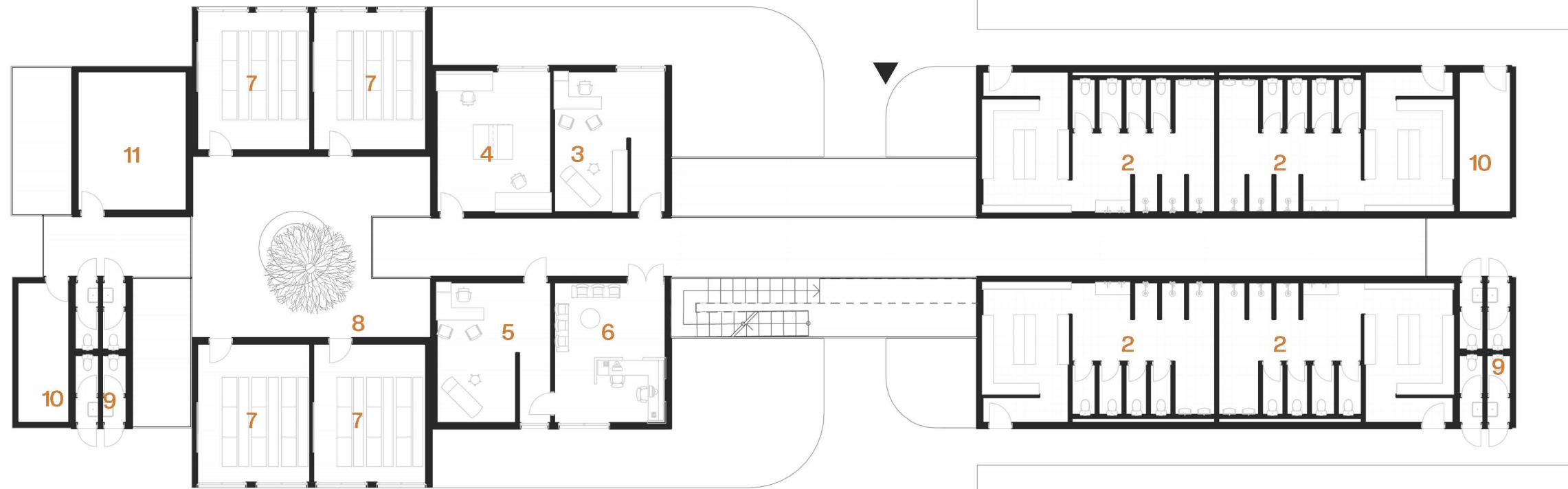
The "soil" and the "sky" are two of the indicators of this proposal, while the "time" appears as the third one.

Project proposes the colors that mirror the magical colors of the **African sky**. Depending on the exact "context" and the "time frame" of use, the color of the containers varies. In this sense project not only is a three dimensional reality in relation with its context, but also acquires the 4th dimension of "time".



# Plan

Ground Floor



37

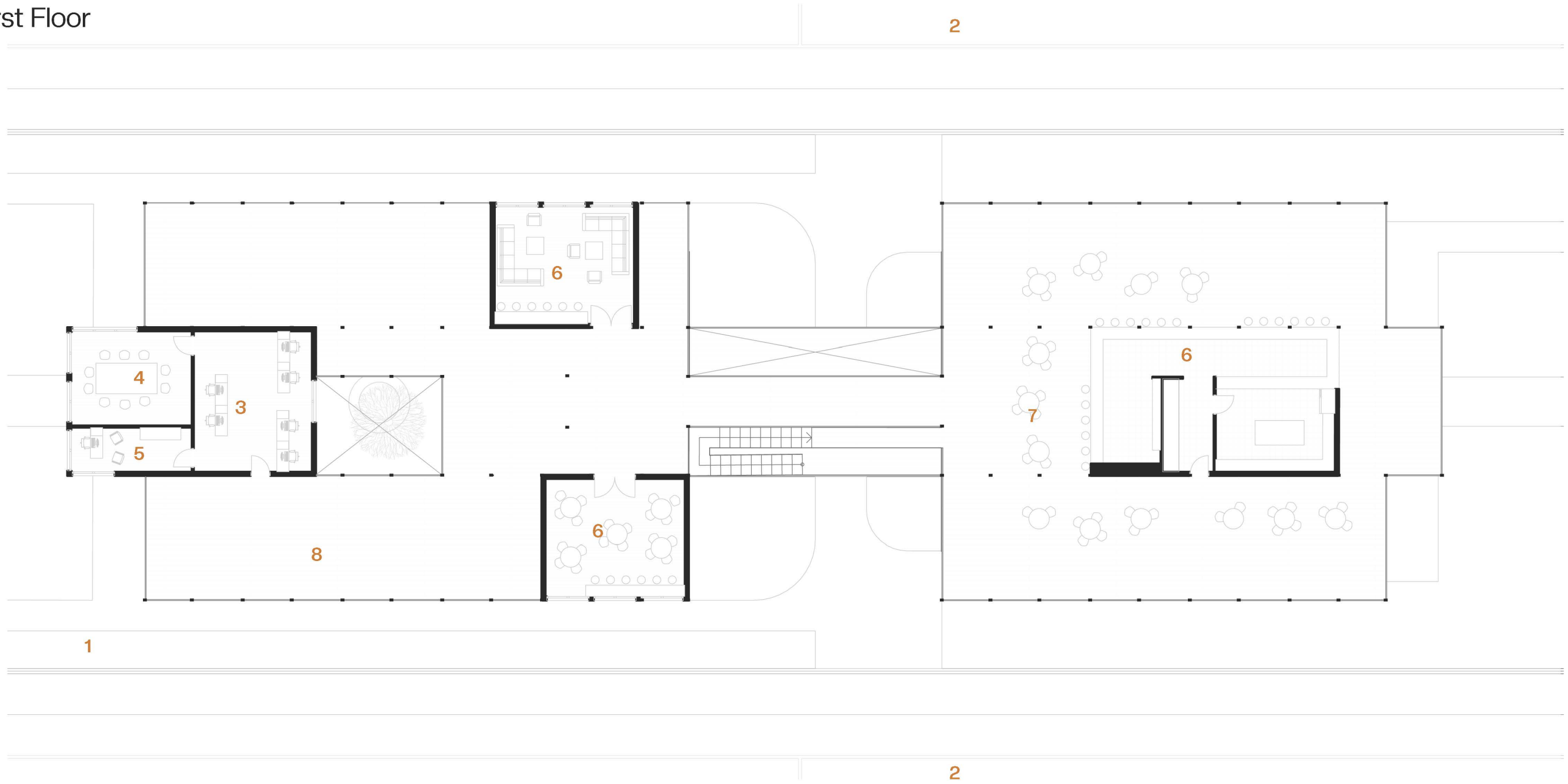
## LEGEND

- |   |                     |   |                    |    |                  |
|---|---------------------|---|--------------------|----|------------------|
| 1 | Football field      | 5 | Visiting room      | 9  | Public Bathrooms |
| 2 | Changing rooms      | 6 | Accreditation room | 10 | Storage          |
| 3 | Infirmary           | 7 | Classroom          | 11 | Technical room   |
| 4 | Analysis laboratory | 8 | Internal courtyard |    |                  |

1:200

# Plan

First Floor

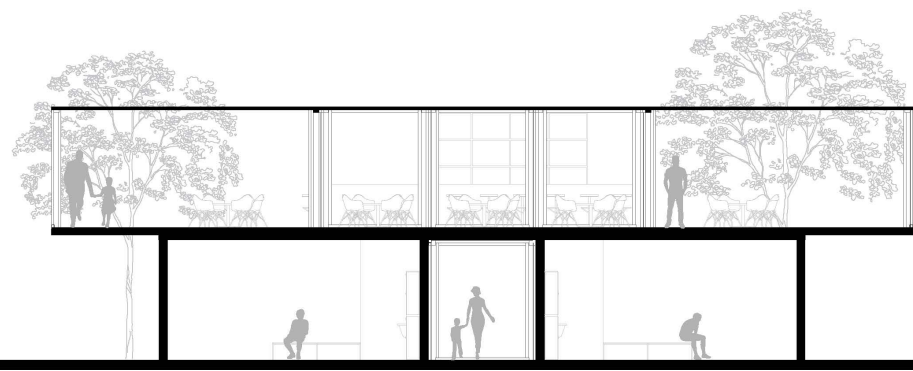


## LEGEND

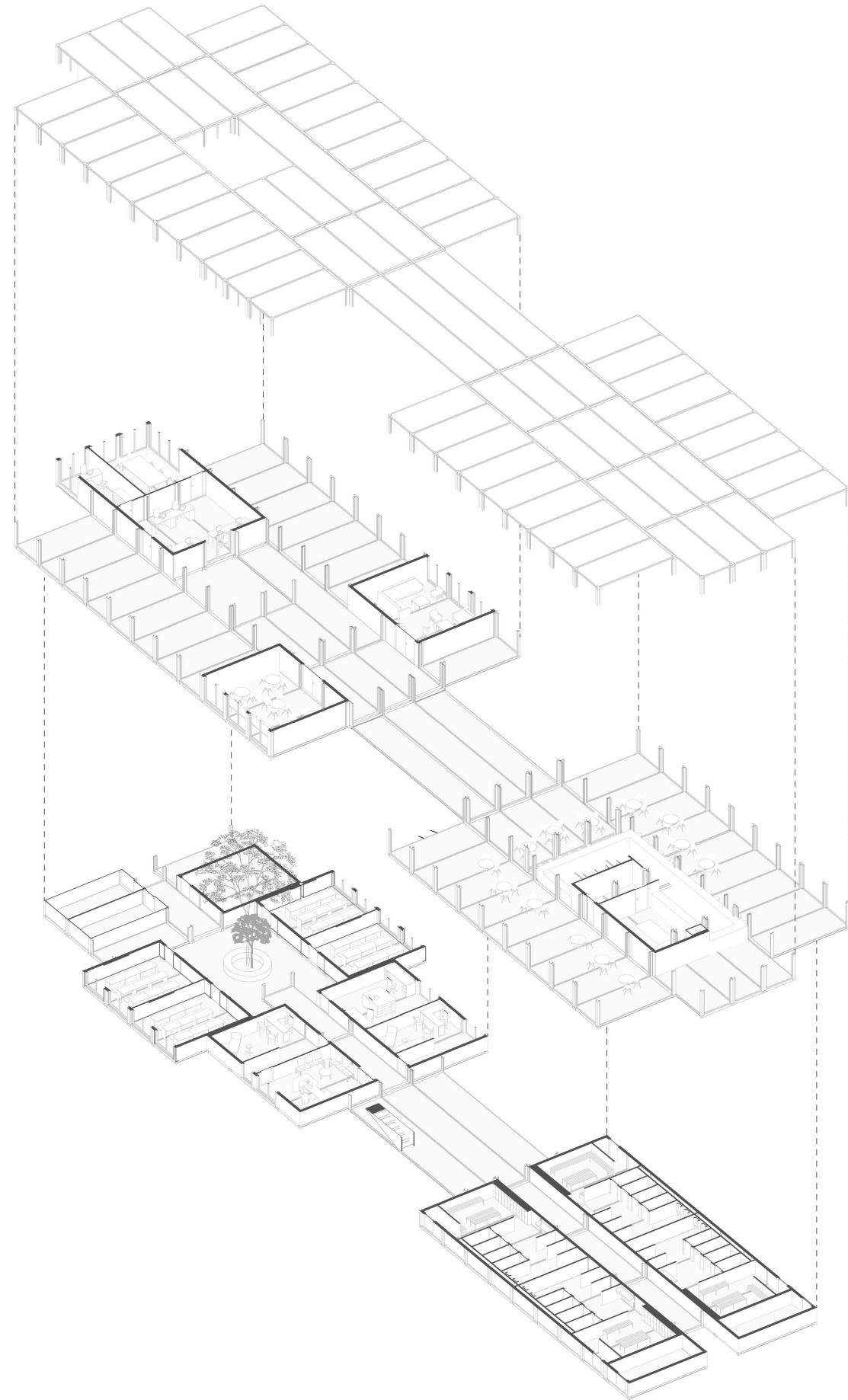
- |                   |                      |
|-------------------|----------------------|
| 1 Sport life path | 5 Office             |
| 2 Football field  | 6 Bar and restaurant |
| 3 Secretary       | 7 Dehor              |
| 4 Meeting Room    | 8 Grandstand         |

1:200 0 1 2 3 4 5

# Axonometric View



0 1 2 3 4 5  
1:200





*Frontal View: Continuous physical and visual connection between the two fields.*

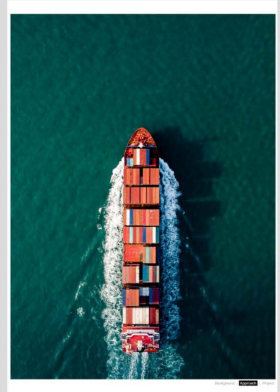


# Containing Hope through Sport

Africa Youth Sport Training Center

## From Shipping Container to Community

Production of an idea through quick assembly and disassembly, sustainability, and resource efficiency.



## From Utility to Flexibility

The conventional container of "South-South Training Center" is more an expression of the flexible response of reality, with low construction costs. They are the building blocks of the project.

Utility Container      Rigidity Structure

Possibility Flexible space      Flexibility Concept

Changing rooms: 4 x 200sqm  
 Storage: 4 x 200sqm  
 Public Restrooms: 2 x 200sqm  
 Classroom: 4 x 400sqm  
 Administrative area: 1 x 400sqm  
 Food court: 2 x 200sqm  
 Market area: 2 x 200sqm  
 Change: 52 x 200sqm  
 Distribution: 7 x 200sqm  
 120 x 200 x 2.40m (1800 sqm)  
 7 x 1000 x 2.40m (2100 sqm)

## Functional Program

The project consists of 107 shipping containers, 120 of the 20-foot module and 7 of the 40-foot module, that are stacked on and put together to form 22 dining sports fields. The whole system is mobile, that means not connected with the so-called "management team". The ground floor consists of changing rooms and lockers, utility, and kitchen. The upper floor consists of administrative offices, meeting room, and storage for containers. All other containers are used as sports fields.

## Masterplan

An area of 10 hectares for model gardens, with two 1000m x 600m football pitches, a central service block, a park, a sports-branch and...



## Protagonist #1

Structure



## Ebb & Flow

The main objective of the project is to create a "flexible" and "mobile" building that can be used for different purposes. The building is made of shipping containers, which are easy to assemble and disassemble. The building is also mobile, that means it can be moved to different locations. The building is also sustainable, that means it uses low-cost materials and has a low carbon footprint.



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Utility Container      Rigidity Structure

## Materials 4D

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