

Current situation



Civil war Refugees

Limited available amenities

Population needs:
Lack of housing, infrastructure and schools
Electricity shortage
Few workplaces and education
Little medical care

Our vision

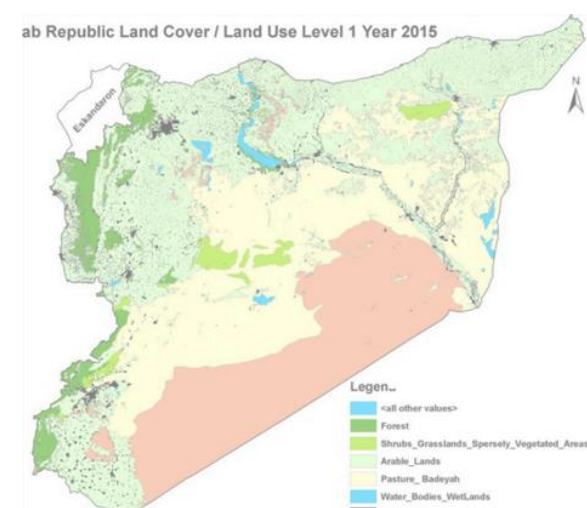
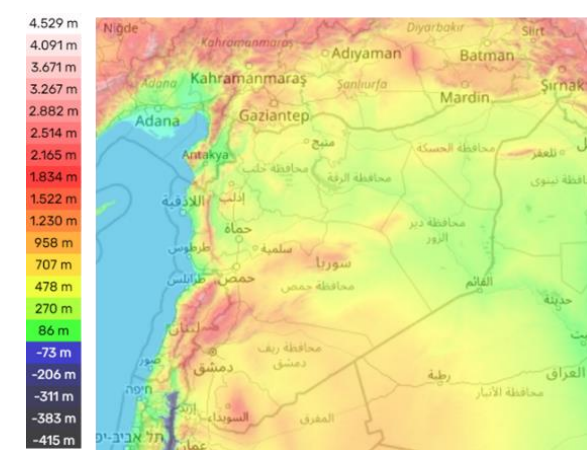
To help the children; make children feel safe and supported while making learning more fun, by creating a great building!



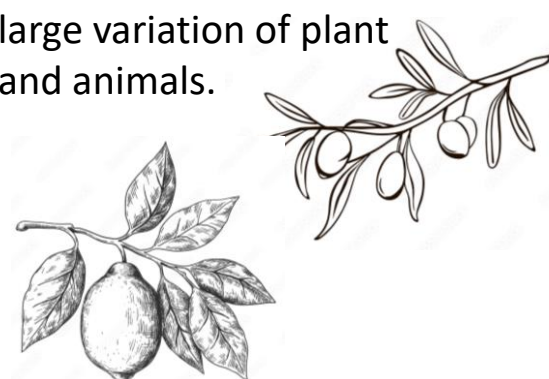
(Unicef, 2023)

Location and plan site

Geography:
Hills and mountains containing big open plains.



Vegetation:
Fertile grounds with a large variation of plant and animals.

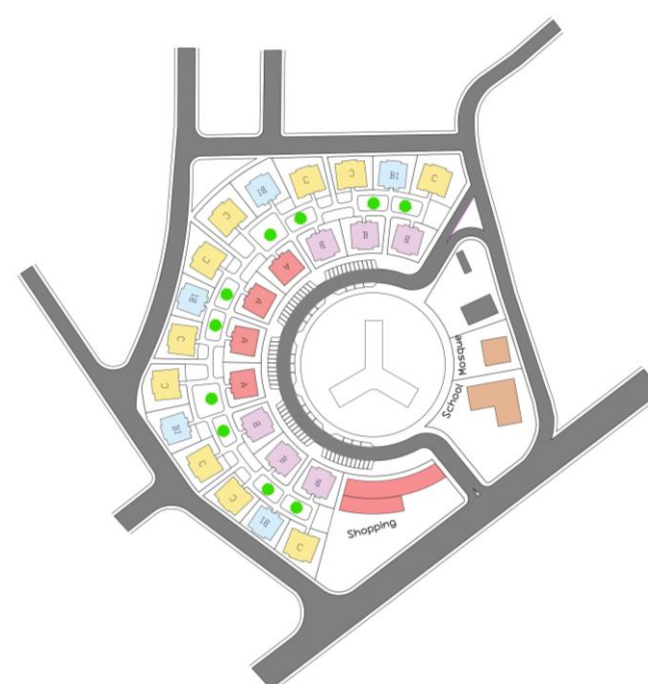


(Government of the Syrian Arab Republic, 2020)

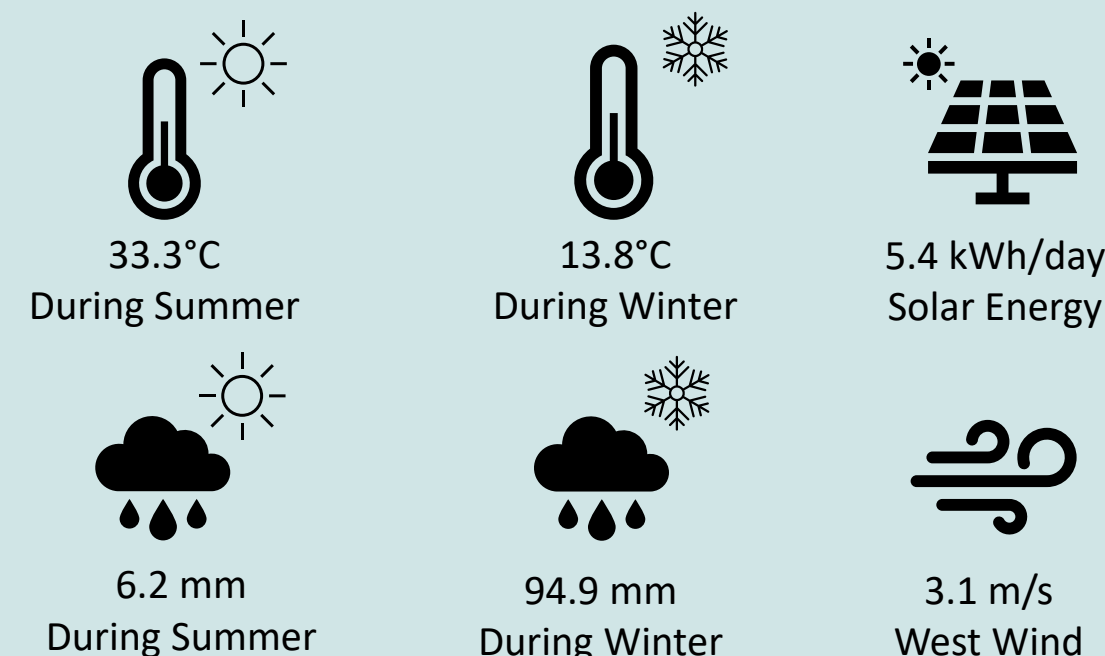
Plan site:
Location: Harem, close to the Turkish border .

Accessibility:
National road 56

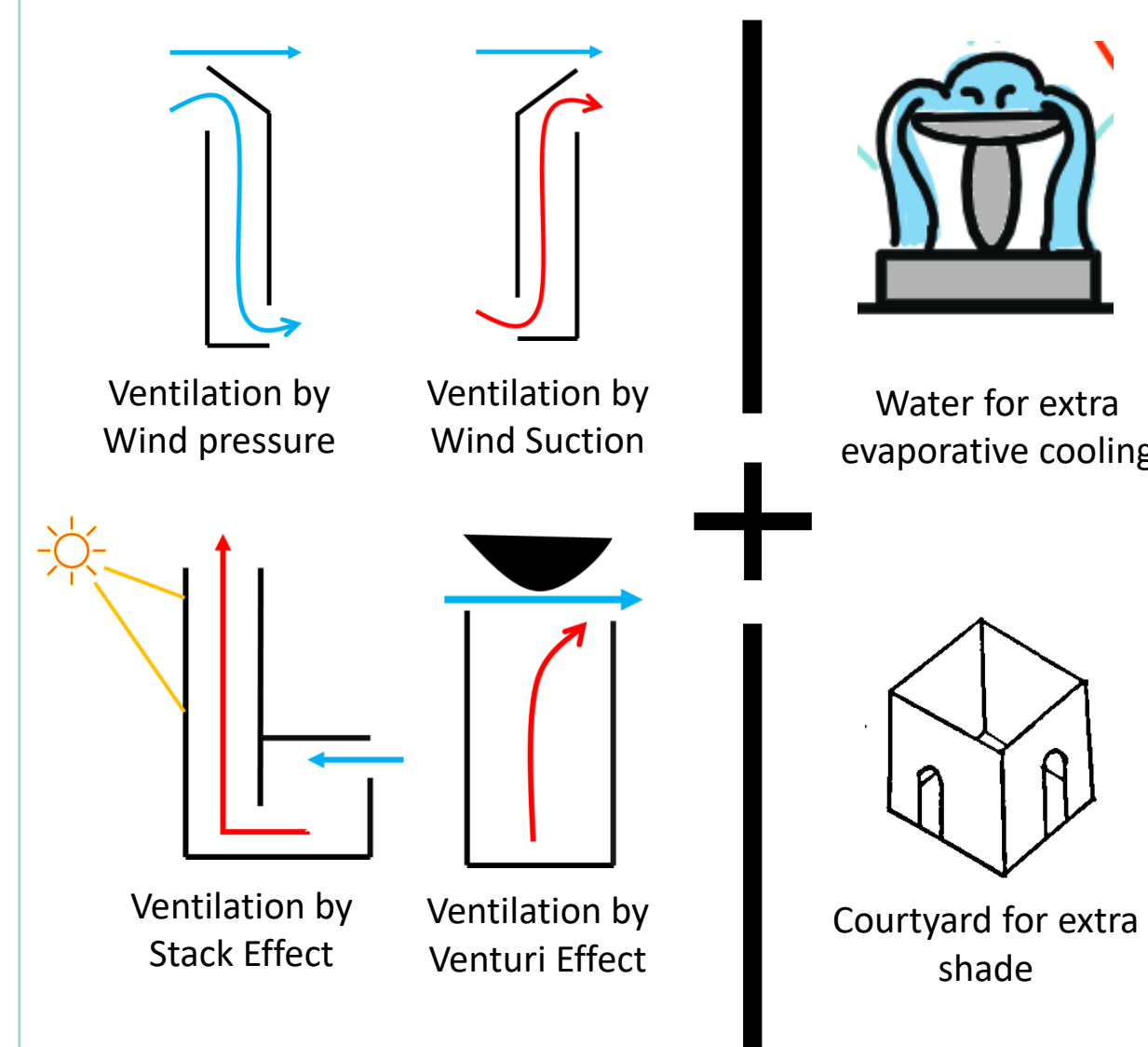
Utilities:
basic utilities nearby



Climate



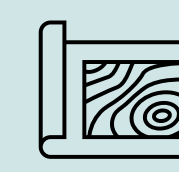
Passive ventilation



Available materials and construction methods



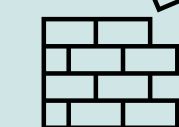
Available raw materials:
• (natural) Stone
• Sand, gravel, and clay
• Steel frame and plastic



Importing materials:
Turkey:
• Has abundant building materials (steel construction)
• Construction site near the border
• Importing is more expensive than local sourcing
Europe:
• Importing from Europe is not feasible within the budget



Common construction methods:
• Cast-in-place construction (concrete)
• Stack construction (bricks)
• Building with mud



Earthquake-resistant construction:
• Strengthening
• Damping
• Base isolation

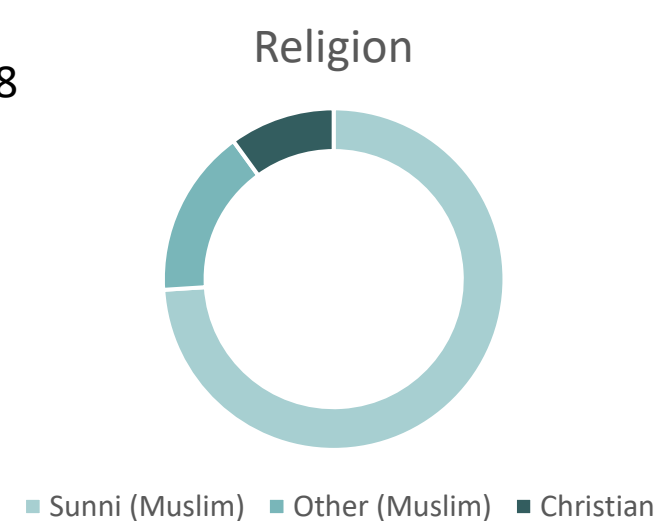


Innovative construction:
• Recycling concrete demolition waste

Culture of Syria

Population: 231,619,18

Median age	
Total	23.5
Male	23
Female	24



Syria supplies almost all of its own food needs



Primary education is mandatory and free for six years

Saidnaya – the city

The Convent of Our Lady of Saidnaya in Syria is famous for a miraculous picture of the Virgin Mary. The picture was found by a monk named Theodore, who experienced miraculous protection while holding it. Today, people of all religious backgrounds visit the picture seeking healing and fertility miracles.



Prison Sednaya

“My heart died in Sednaya”

Estimated of 30,000 people were killed from 2011 to 2018, by execution but also starvation and lack of medical care.



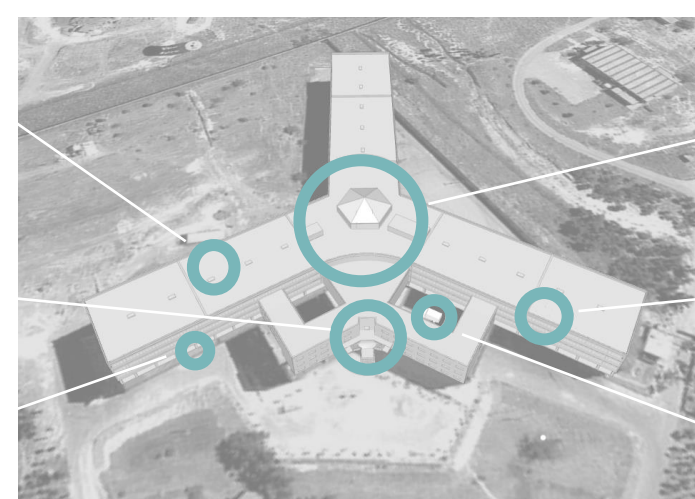
A lot of family members went to Sednaya and never returned. Terrible things happened inside, thing nobody should be reminded of.

Layout of prison Sednaya

Solitary cells

Entrance

‘Salt rooms’



Circulation

Group cells

Arrival truck

Saydnaya, Inside a Syrian Torture Prison. (n.d:Culture of Syria.). Retrieved from <https://saydnaya.amnesty.org/?kind=explore>

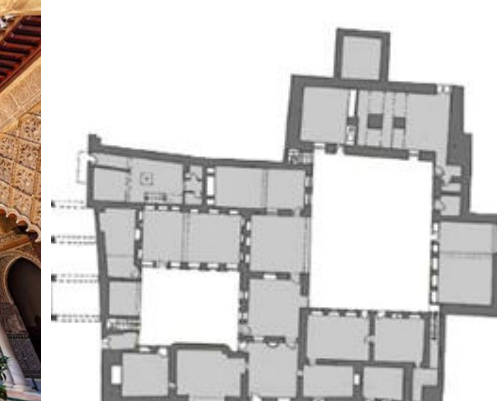
Architecture

Courtyard

- Safety
- Protection animals & food
- Meeting place
- Iwan
- Haramlek



Connection between inside and outside is very important



Typical aspects



The school system

The problems

- Shortage of formal education
- Damaged schools
- Children dealing with traumas
- Not enough teachers
- Destroyed learning resources

The Solutions

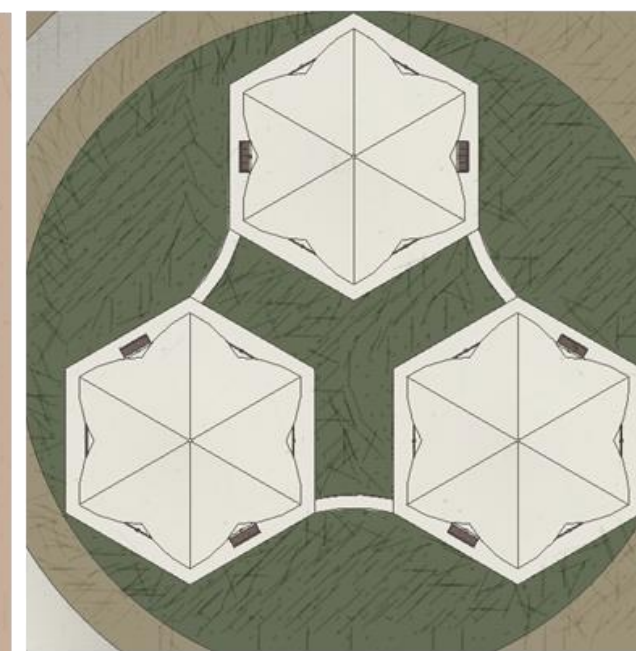
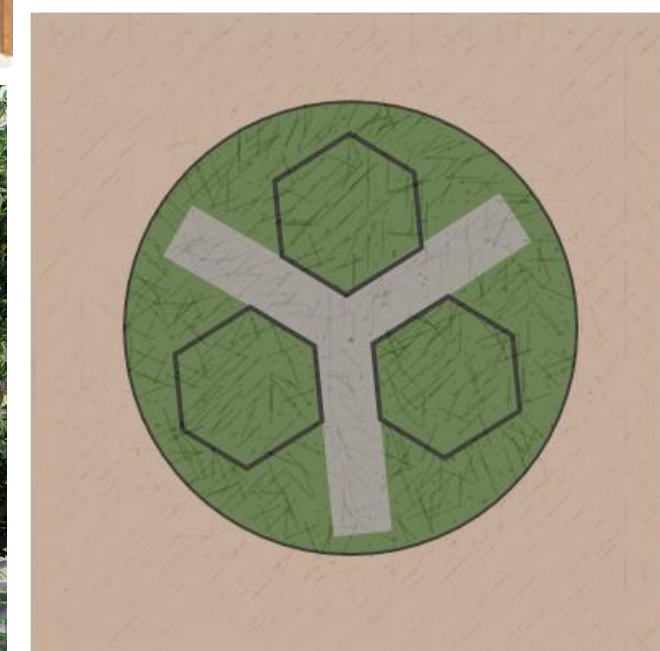
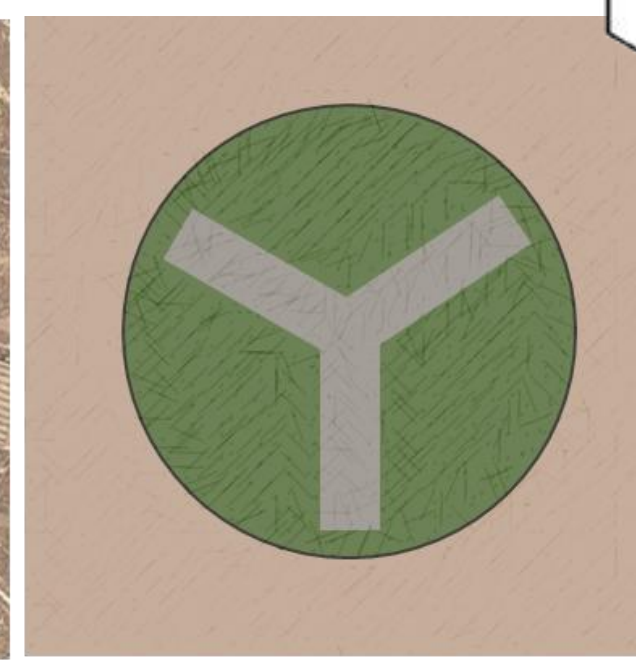
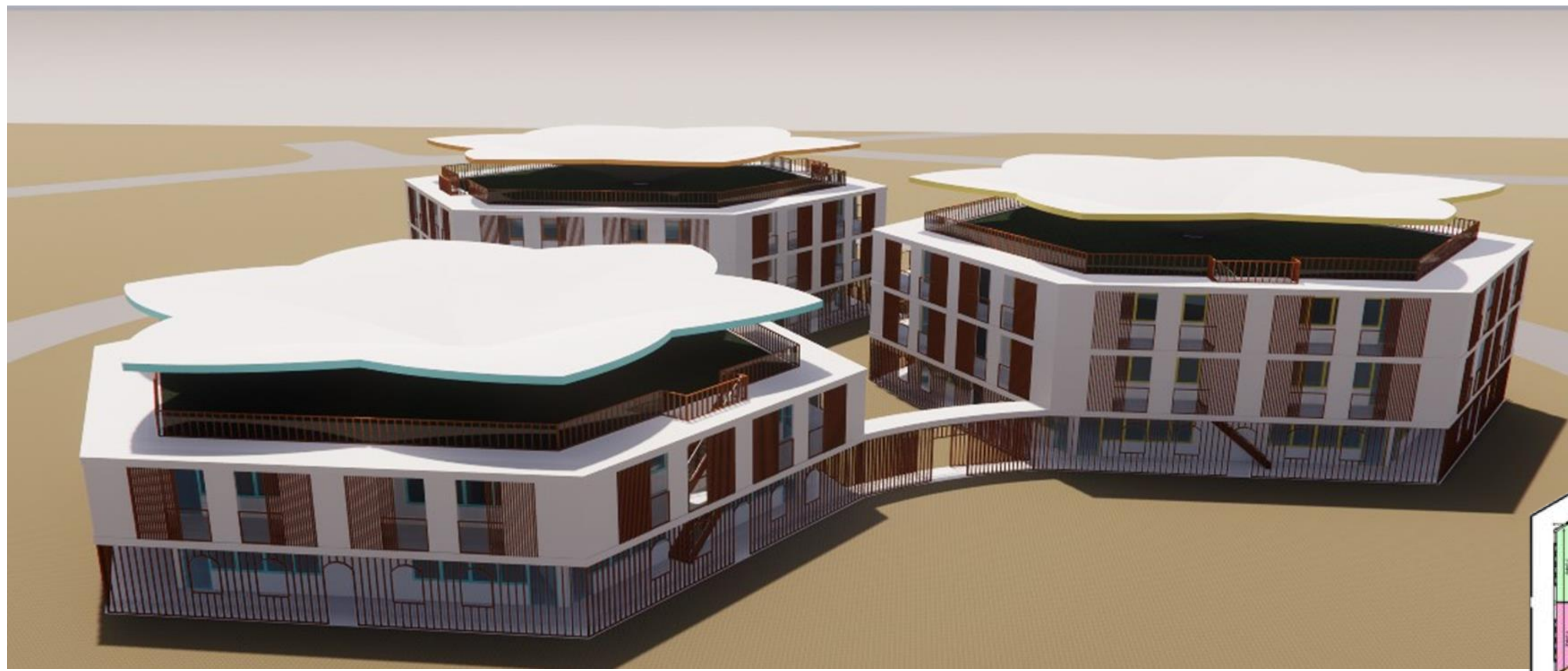
- Creating a safe learning environment
- Take measures into PTSD care
- Build new schools
- Educate more children at once
- Involve the community



Conclusion

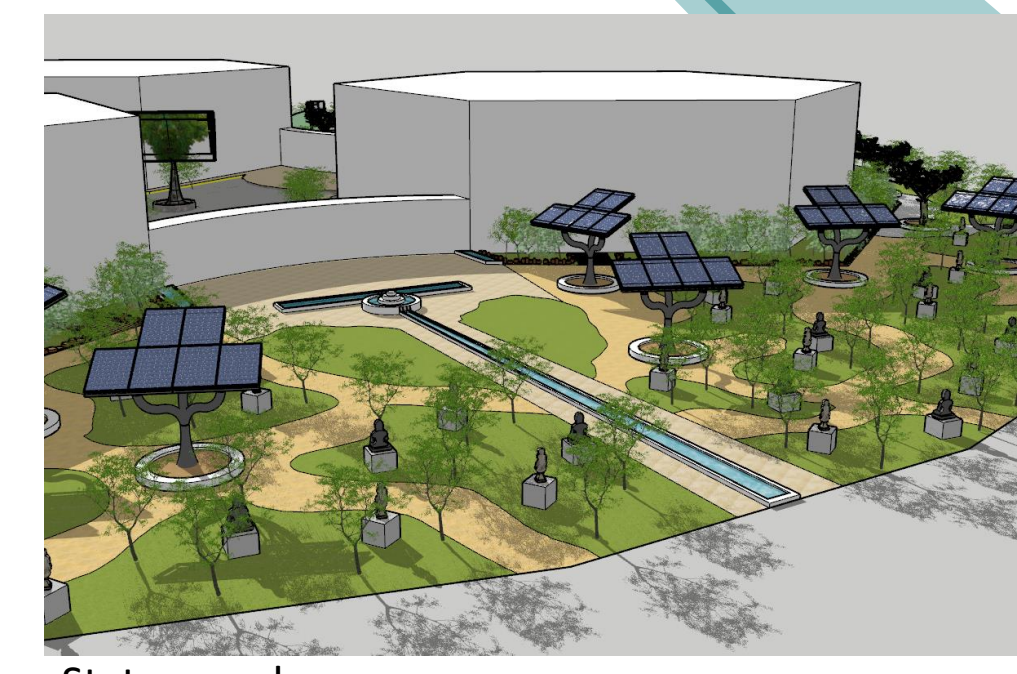
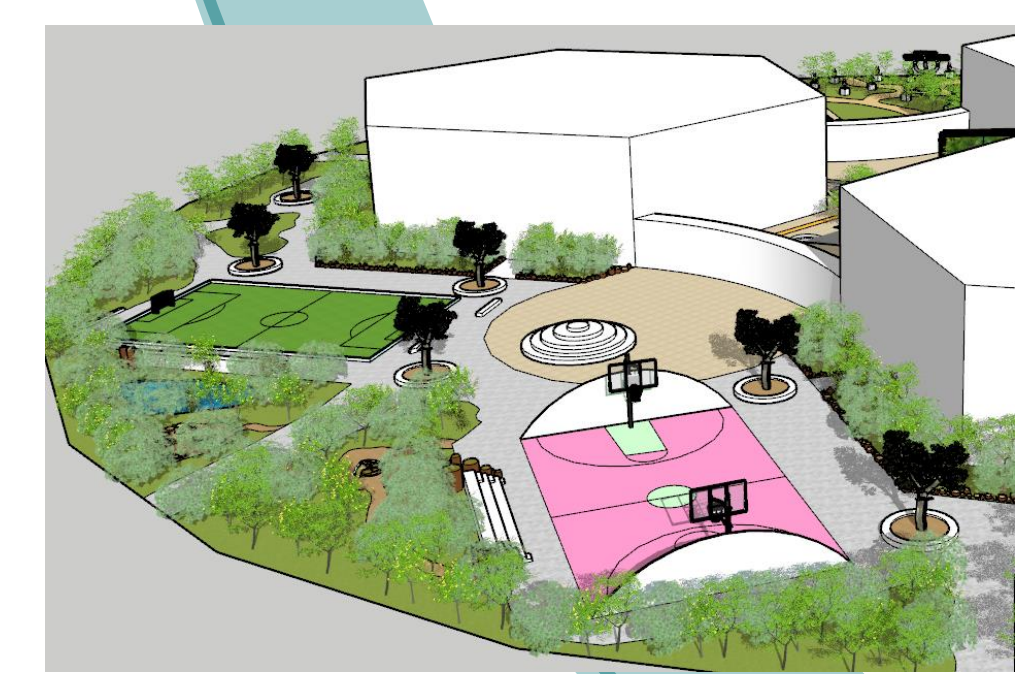
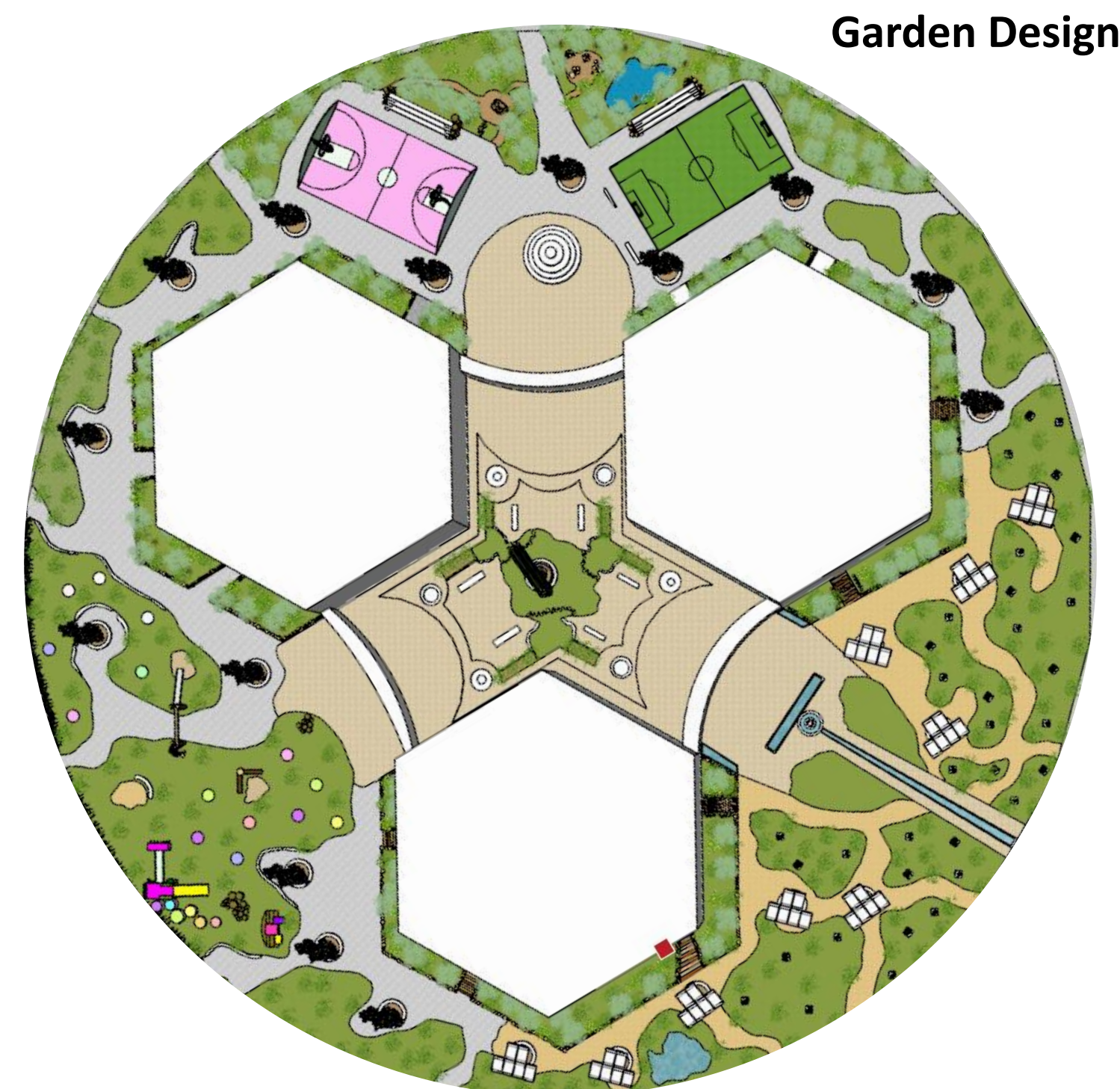
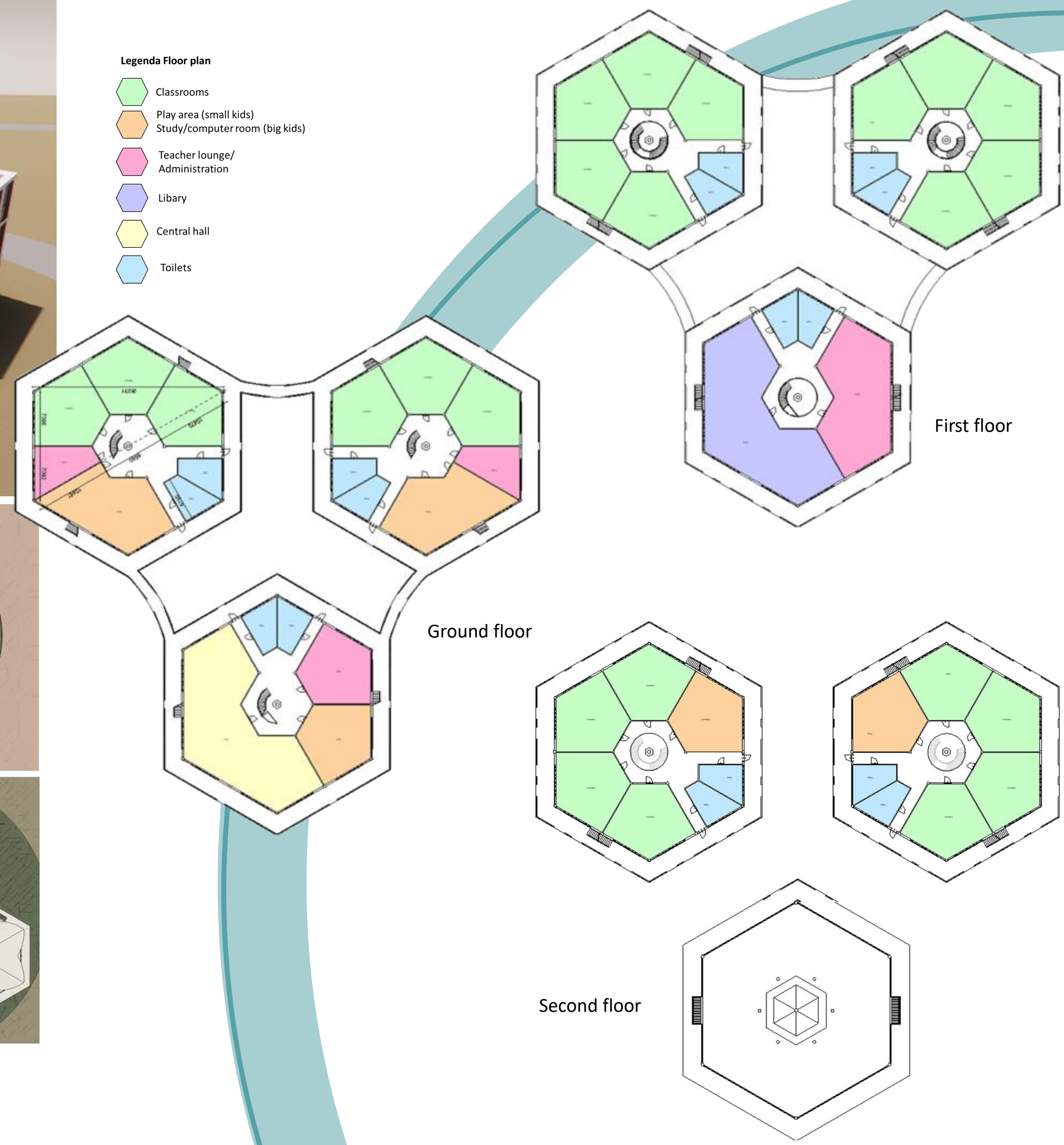
- **Location:** The area is damaged, but offers a lot of potential. By including the environment during the design, this will become a landmark for the entire neighborhood.
- **Culture:** Faith plays an important role in culture. This must also be taken into account during the design.
- **Prison:** A message can be passed through architecture. By incorporating flexible aspects of the prison into the design, a political message can be conveyed.
- **Architecture:** The history of architecture offers a lot of inspiration that can be used in this building.
- **Education:** There is a great shortage of educational opportunities. Education alone is very valuable for children. In the design we have to consider the past and the future of the children.
- **Climate:** Syria has dry warm summers and mild wet winters. In the design, passive installations and a pleasant environment can be created.
- **Building:** It is important to take local products into account during the construction process and to involve the residents in the process.

THE WATER SOURCE
MASDAR ALMIH

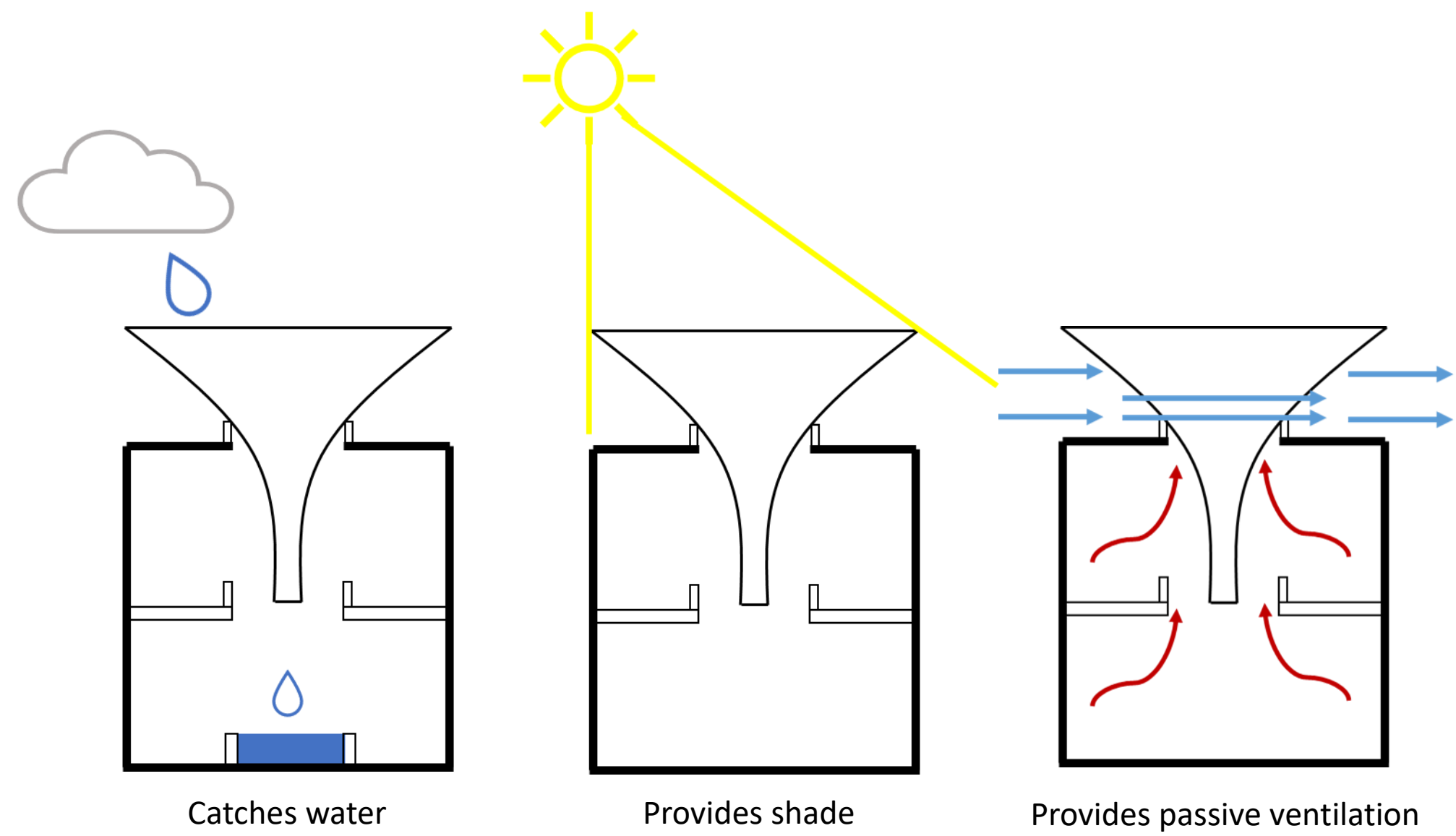


A different view on the original shape

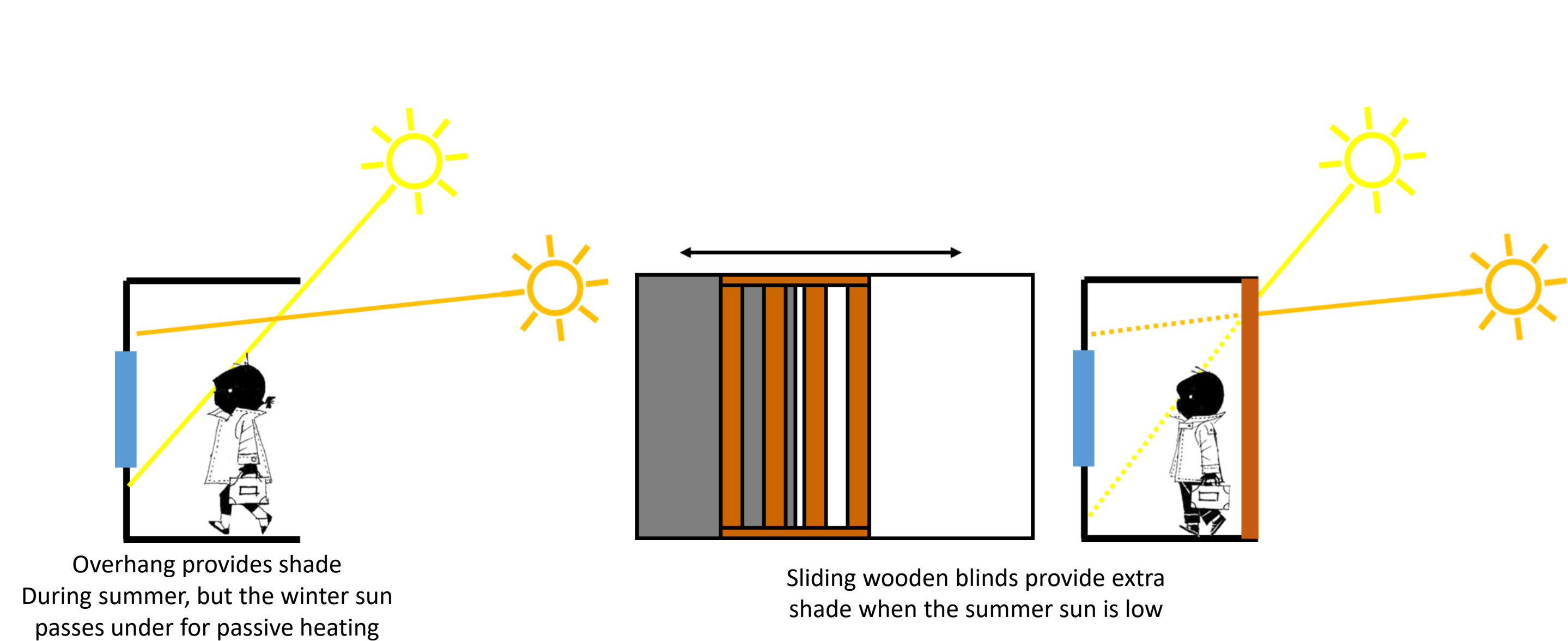
- Legenda Floor plan
- Classrooms
 - Play area (small kids)
 - Study/computer room (big kids)
 - Teacher lounge/ Administration
 - Library
 - Central hall
 - Toilets



THE WATER SOURCE ALMIAH



Functions of the flower



Shadow

Outer shell

Concept outer gallery
1. sliding blinds
2. banana aluminium fencing
3. colored aluminium frame
4. green corner
5. classroom

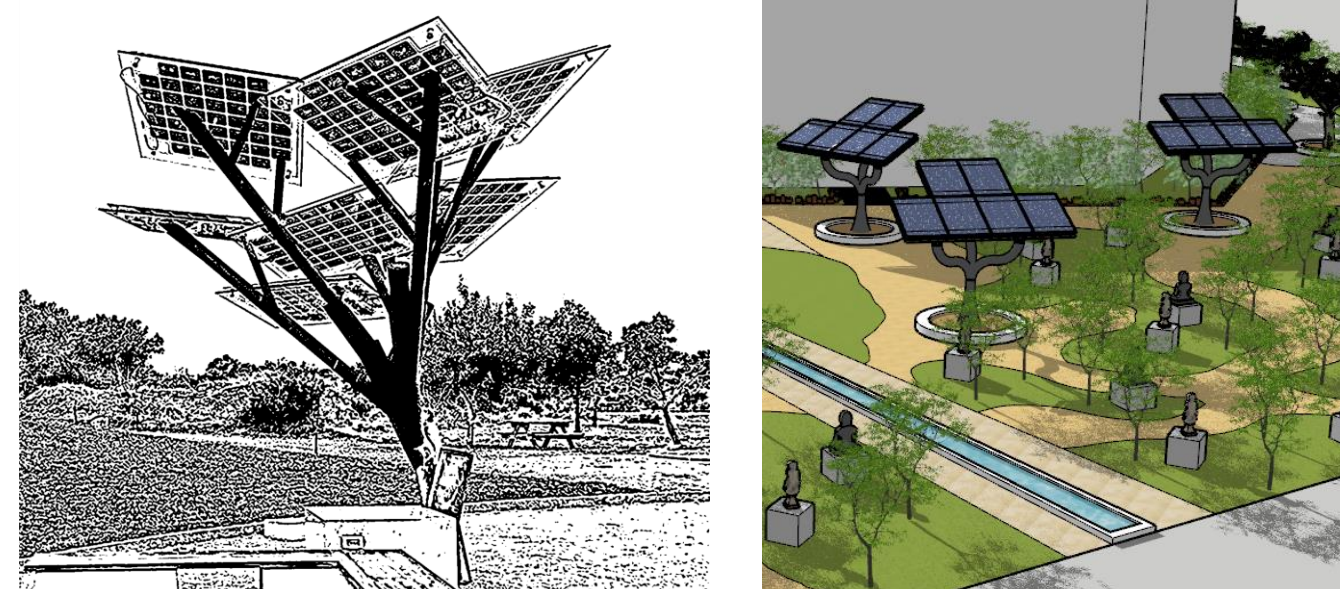
Construction

In the work poured concrete with reinforcement

Construction pile plan

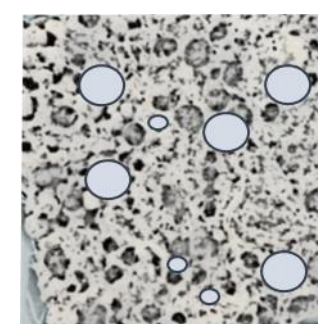
Electricity

Solar panels are installed in the sculpture garden to supply the building with electricity. Because of the design, they disappear into the environment.



Super concrete

Super concrete contains recycled concrete and plastic granules.



Provides employment for local residents.



Special concrete with plastic fibers. This concrete is earthquake resistant.



Can also be used for future projects.

