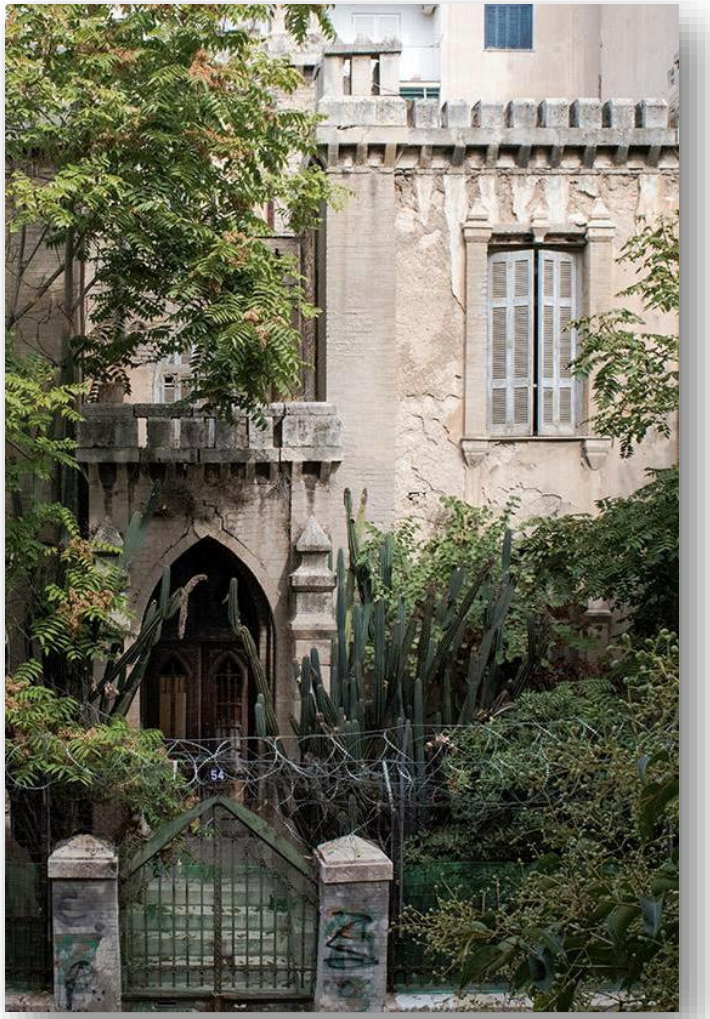


TYPALDOS TOWER

54 THIRA STREET, ATHENS

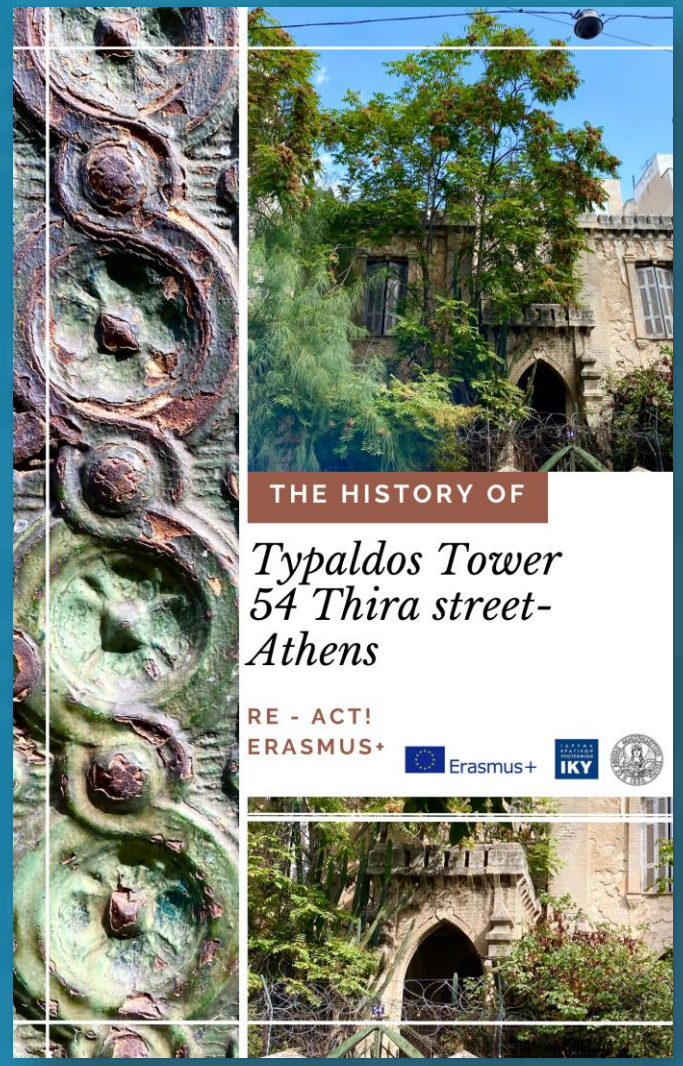
AN EXAMPLE OF GREEK NEO- GOTHIC ARCHITECTURE

A' ARSAKEIO- TOSITSEIO LYKEIO EKALIS

RE-ACT!
ERASMUS+
REANIMATING CULTURAL TREASURE!

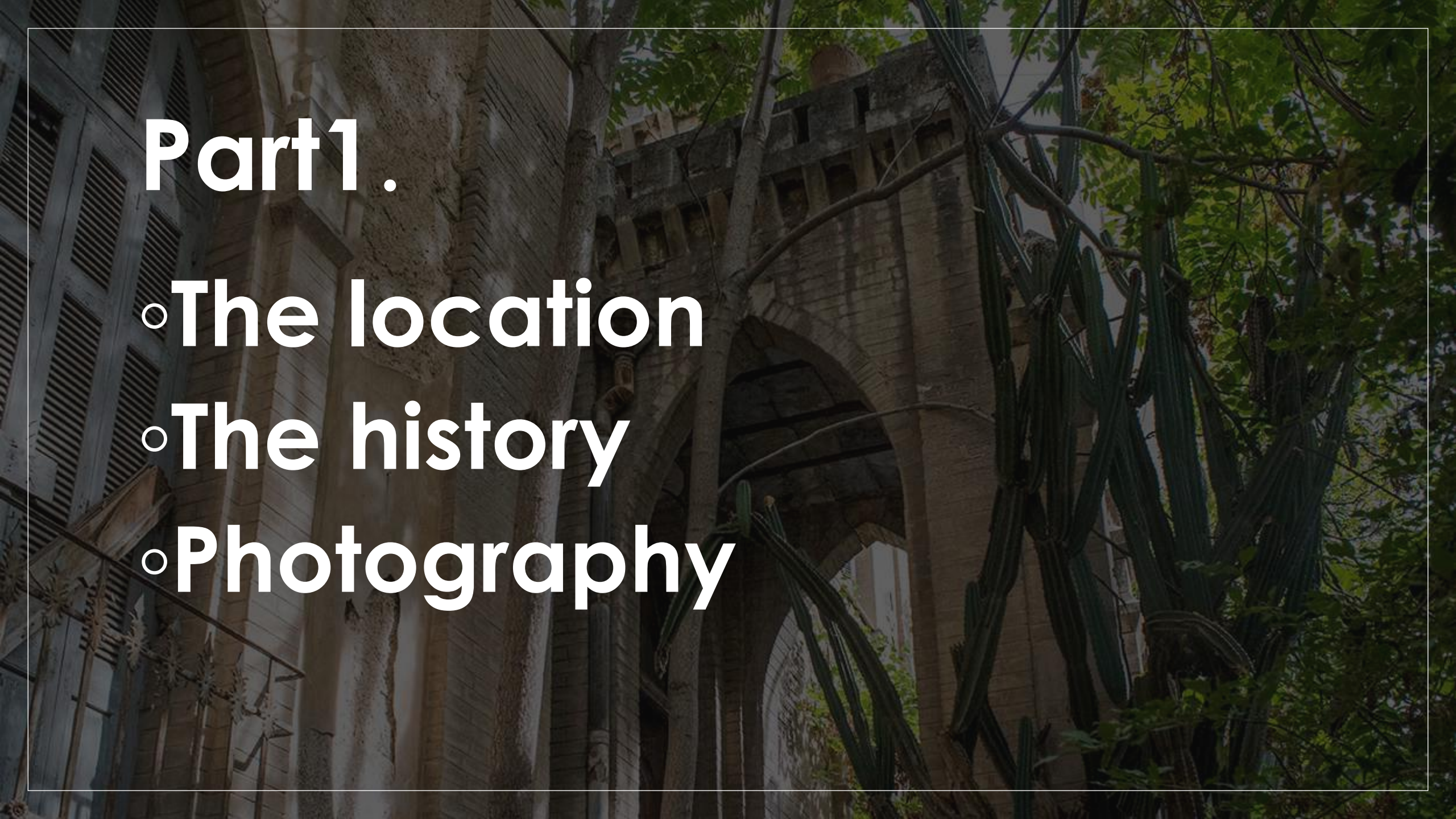
PRESENTATION TEAM

- Anna Andritsaki
- Anastasios Giannopoulos
- Alexandros Grivas
- Efthymia Kanellidi
- Nikolaos Kassotakis
- Eugenia Sefteli



Presentation

1. History of Typaldos Tower- Photography
2. Our proposal - Architectural designs
3. The eco - friendly reconstruction/ Bio - climatic choice

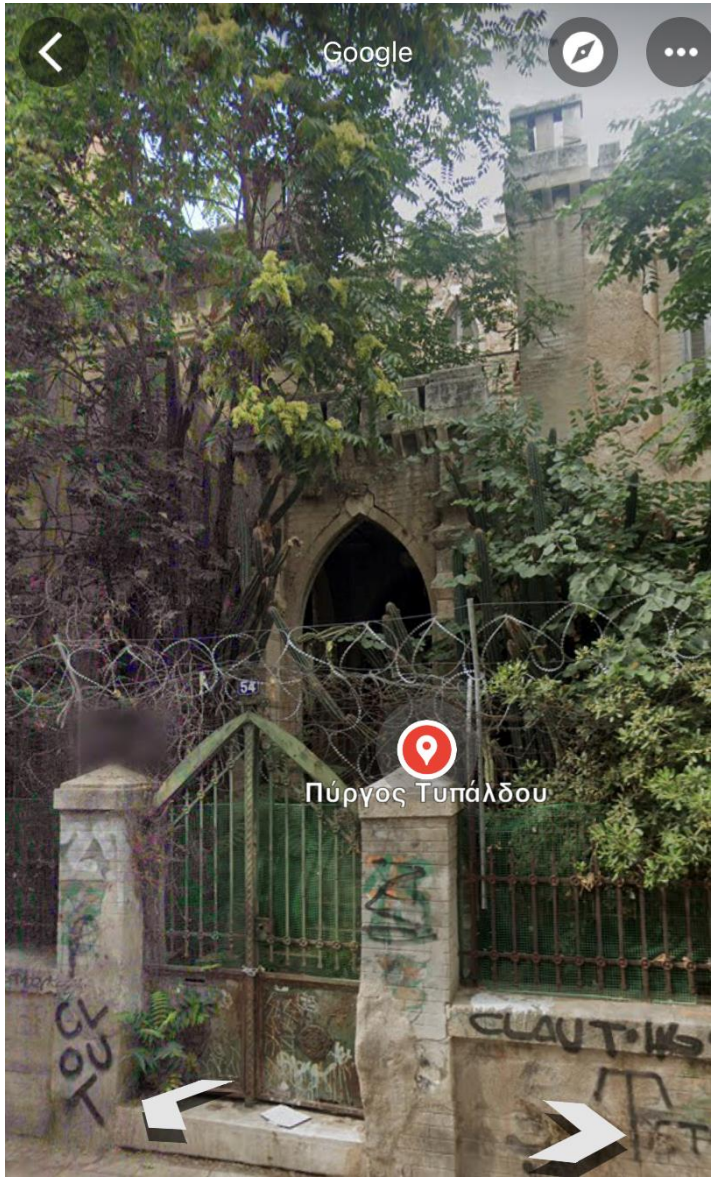


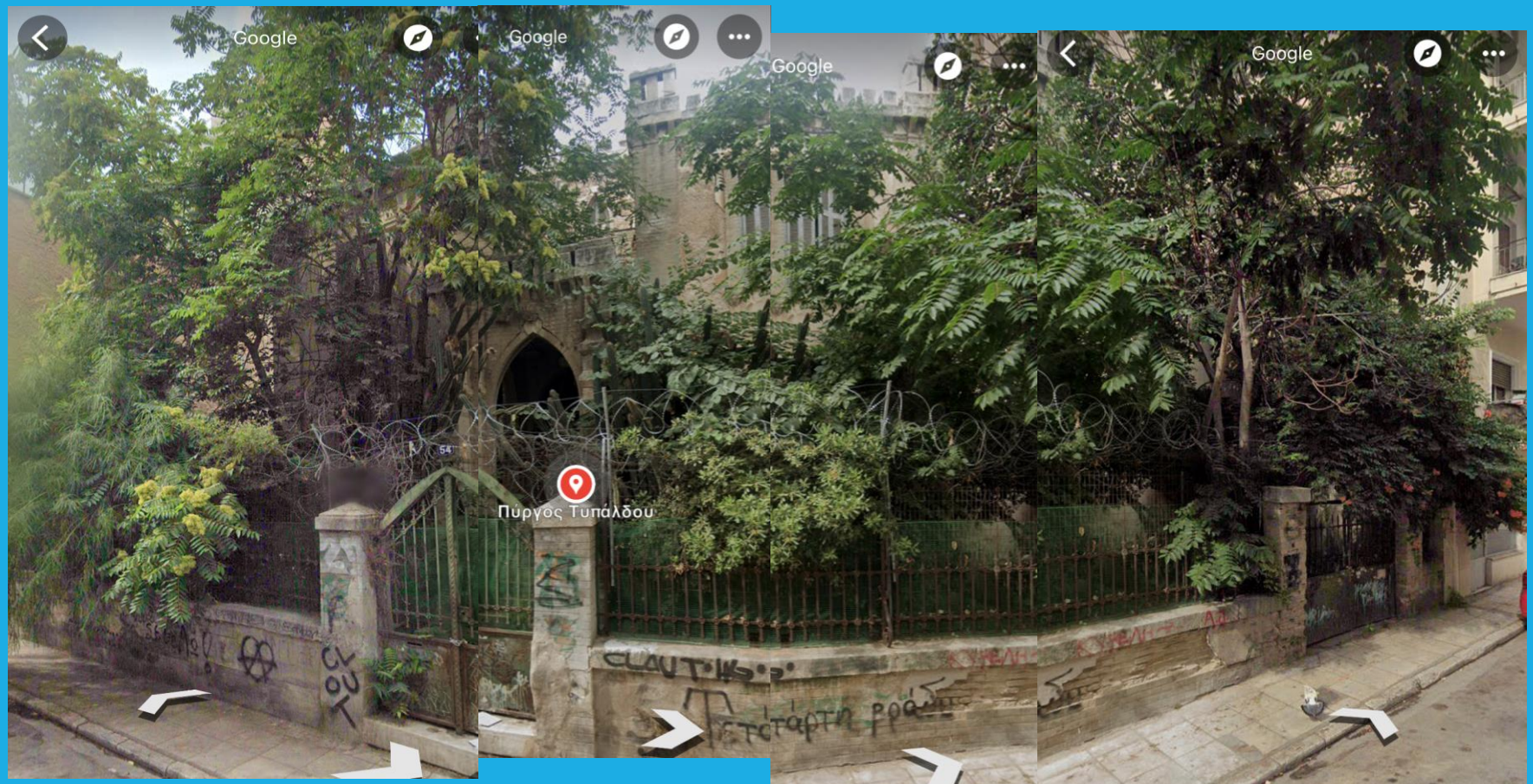
Part1.

- The location
- The history
- Photography

LOCATION OF THE TYPALDOS TOWER

Typaldos tower is located in the center of Athens, between tall buildings and it looks like a fairy tale.

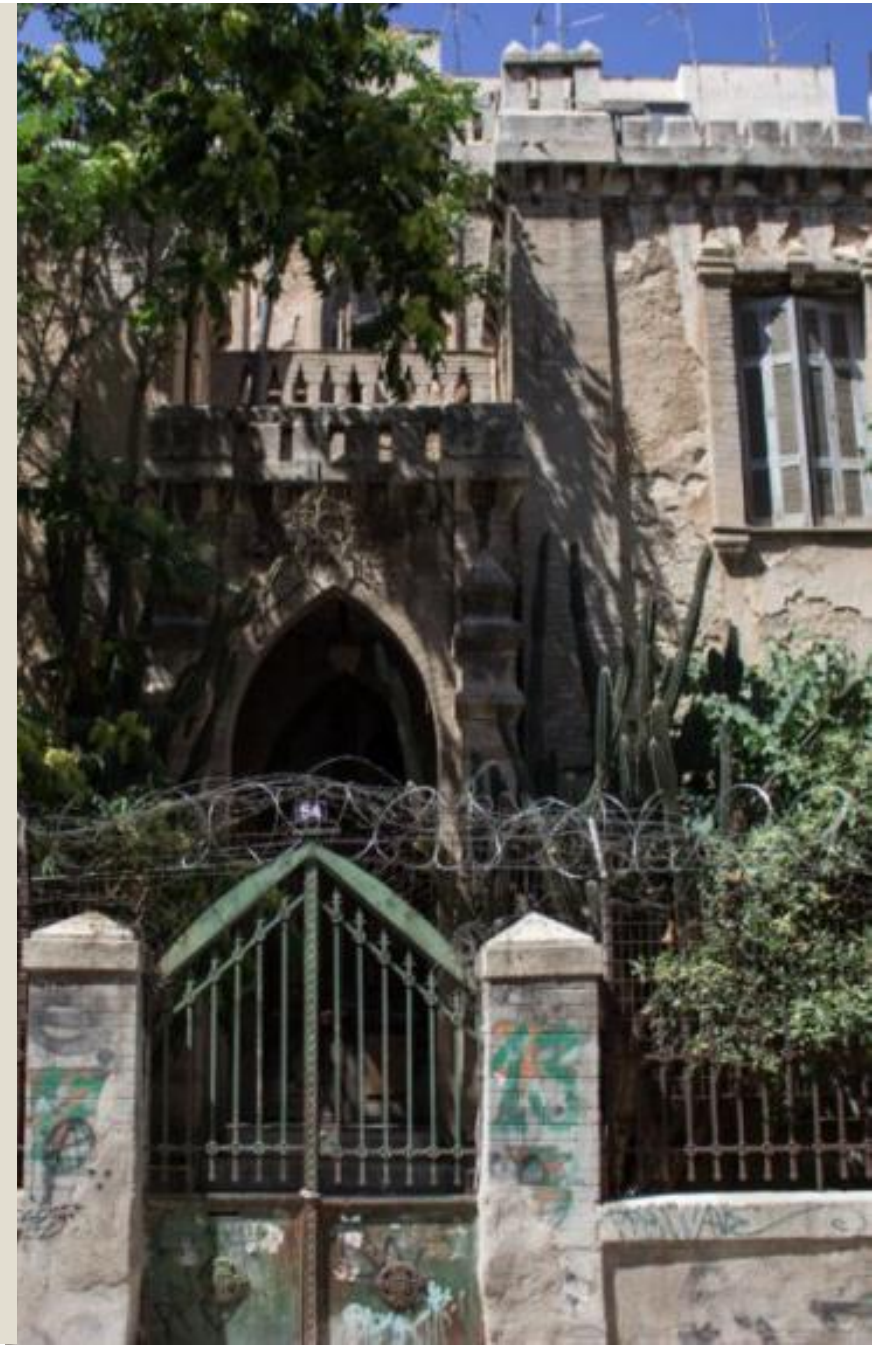


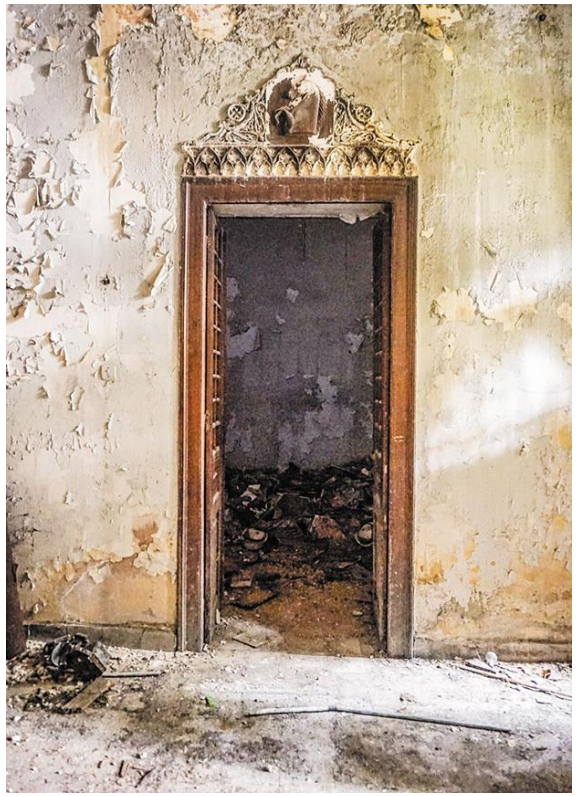


Typaldos Tower view
Photo collage from Google earth

History of the tower

- beginning of the 20th century, built in 1914
- period of expansive urban planning in Athens
- owner George Alfonsatos Typaldos, Kefalonia (Ionian island)
- The peculiarity of the building is due to its neo-Gothic style.





- The Typaldos family came from Italy in the 15th century.
- History and prestige of the family are reflected in the architectural style chosen for their residence.

Walls and windows of Typaldos Tower

View of Typaldos Tower

Neo-gothic details of Typaldos Tower

Neo –gothic arches for windows

Part 2.

- Our proposal
- Architectural designs

Our proposal

- **It is proposed to be used as a bookstore and library in combination with a secondary space to be used as a gift shop and cultural event venue during the summer months.**
- In this way the cultural factor compensates for the commercial and recreational factor. Lately, a modern suggestion is attempted to be implemented on this historical monument in order to leave a pleasant imprint on the mind of the visitor.

DESIGNS FOR THE TOWER'S RECONSTRUCTION

Activities

Typaldos Tower could be used in many ways.

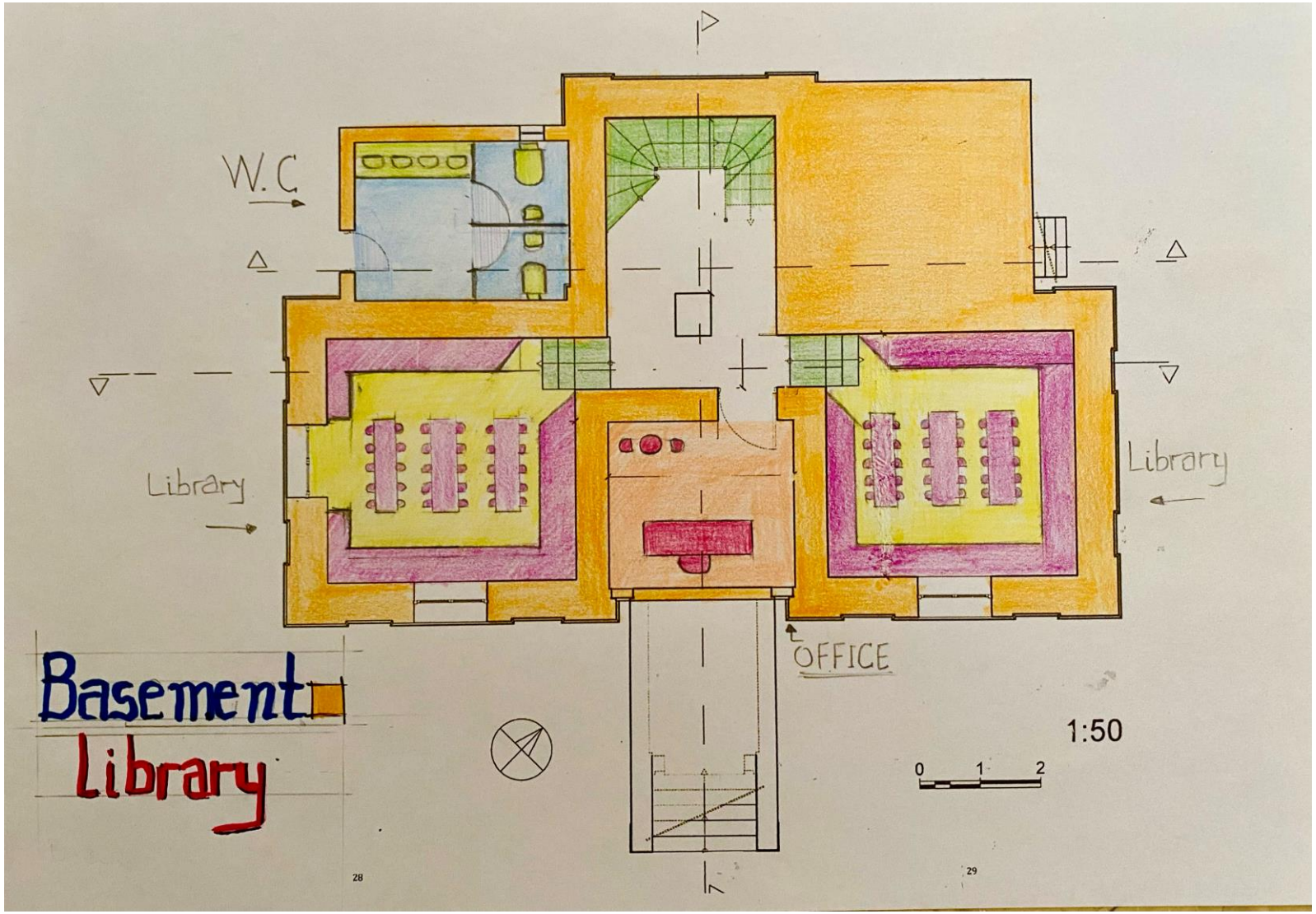
Some rooms could be used as **study halls and lending library.**

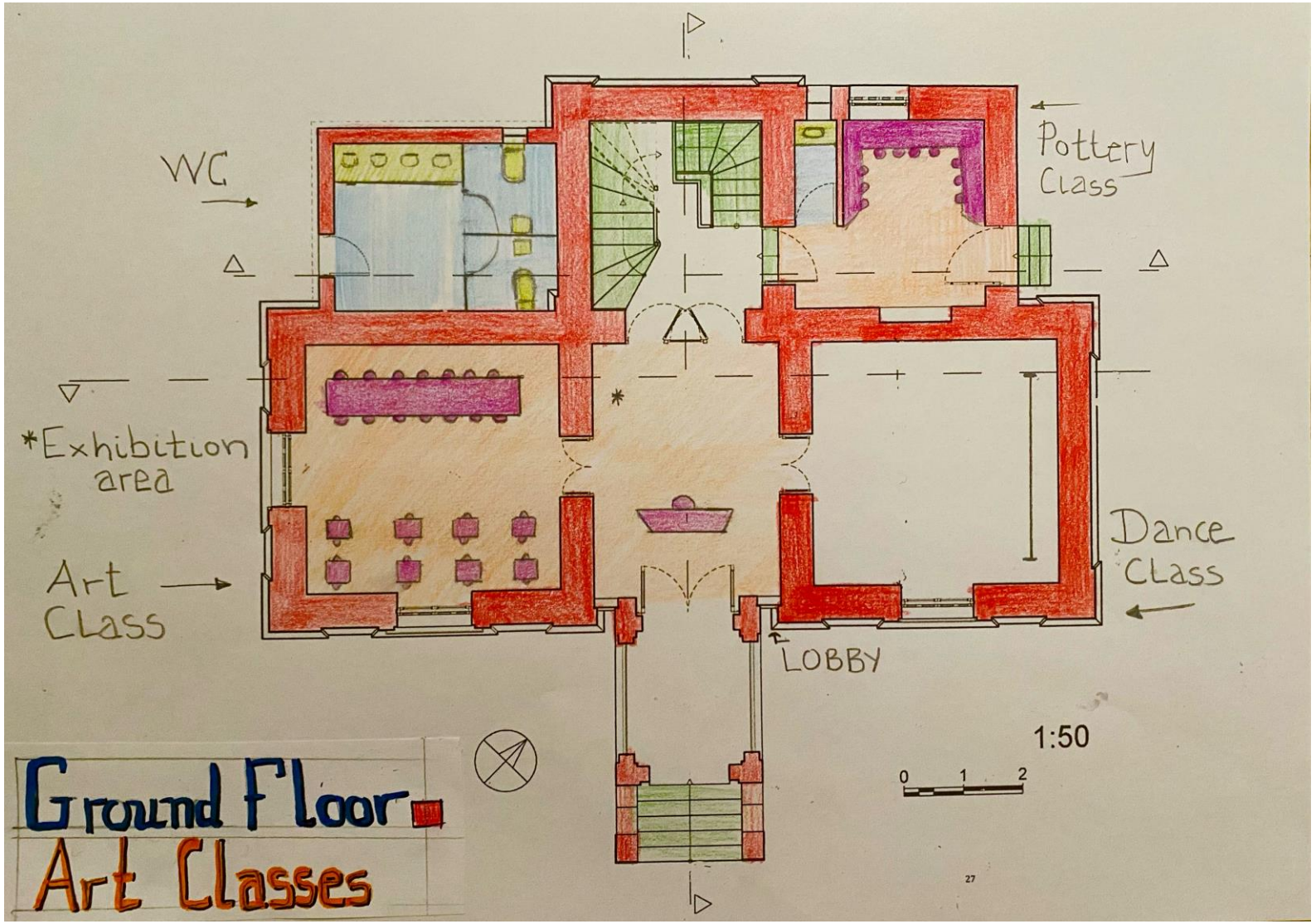
It could also host

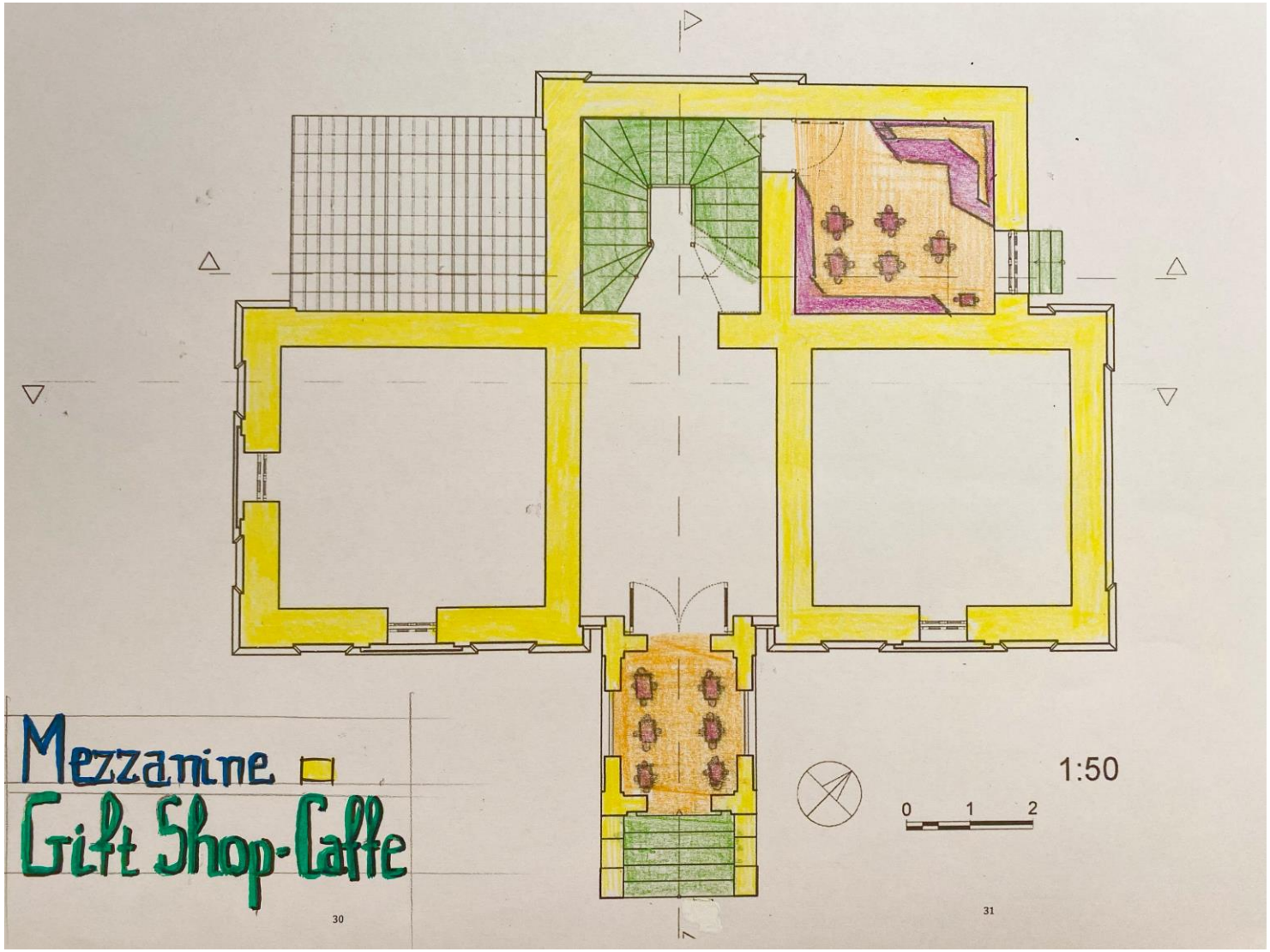
- foreign languages courses
- **Greek** for foreigners (immigrants)
- **art classes**

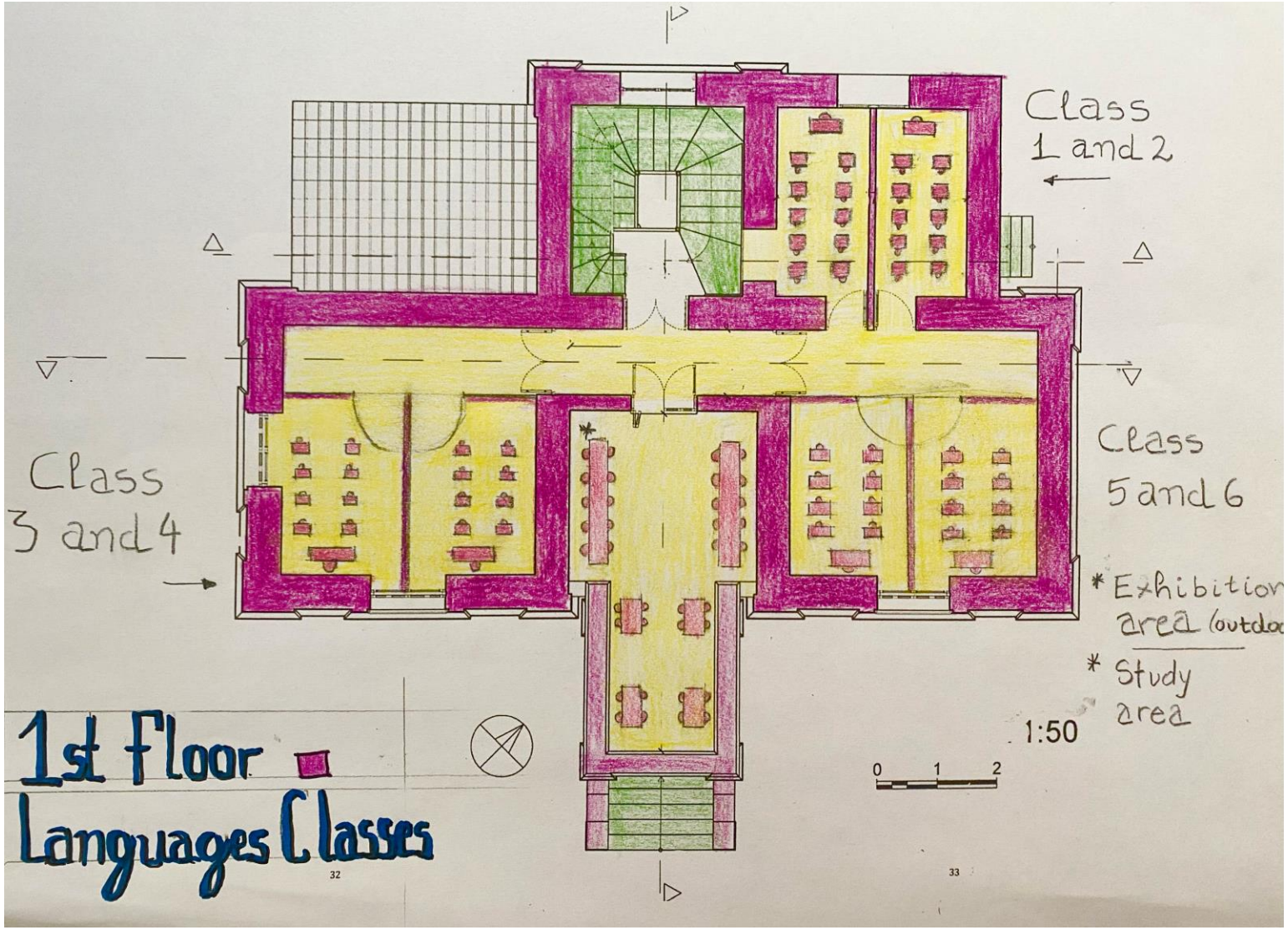
It is also ideal for **celebrations and feasts** , both indoors and outdoors.

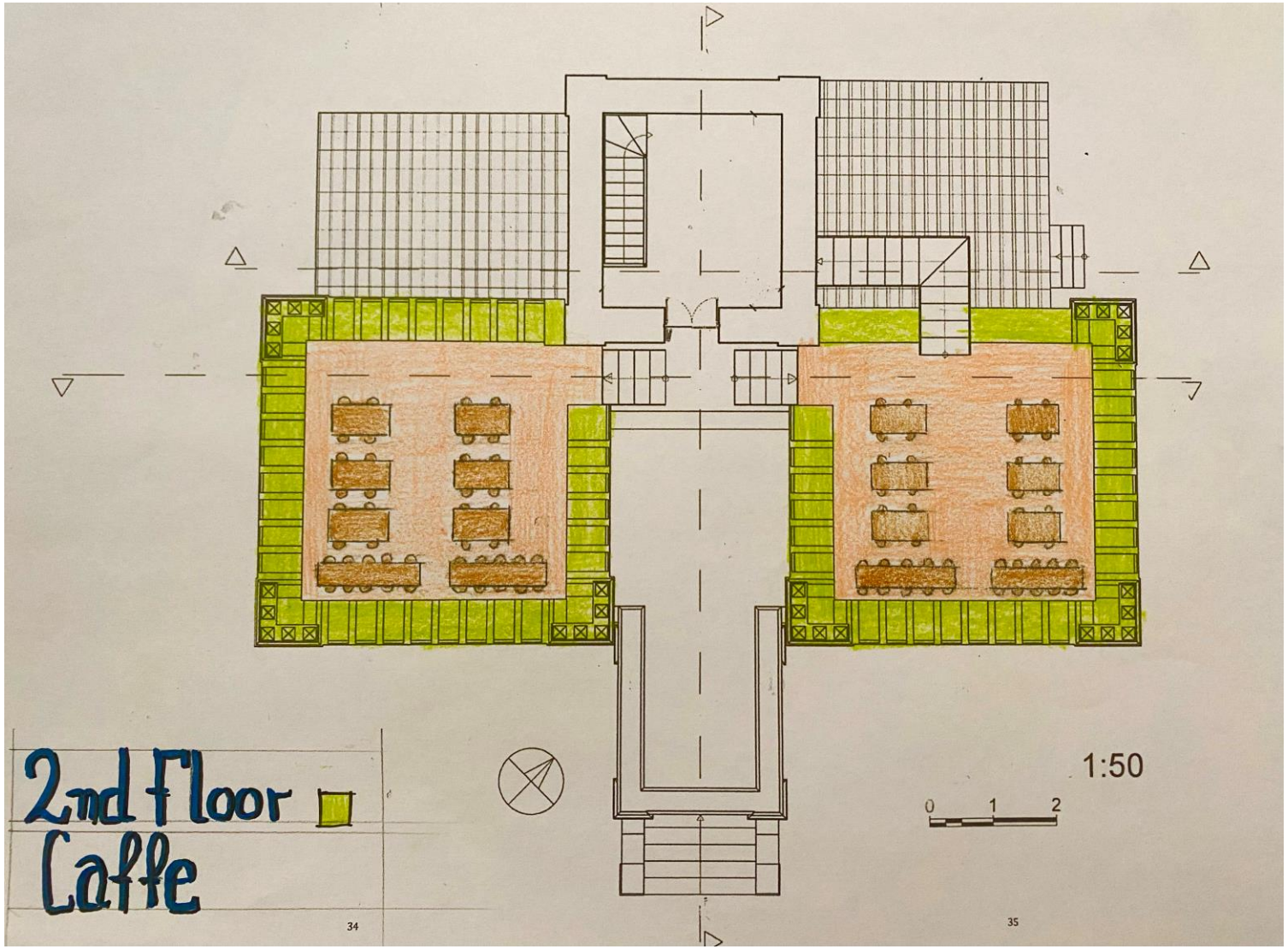
Drama teams or **dance groups** could rehearse and present their work in the community.

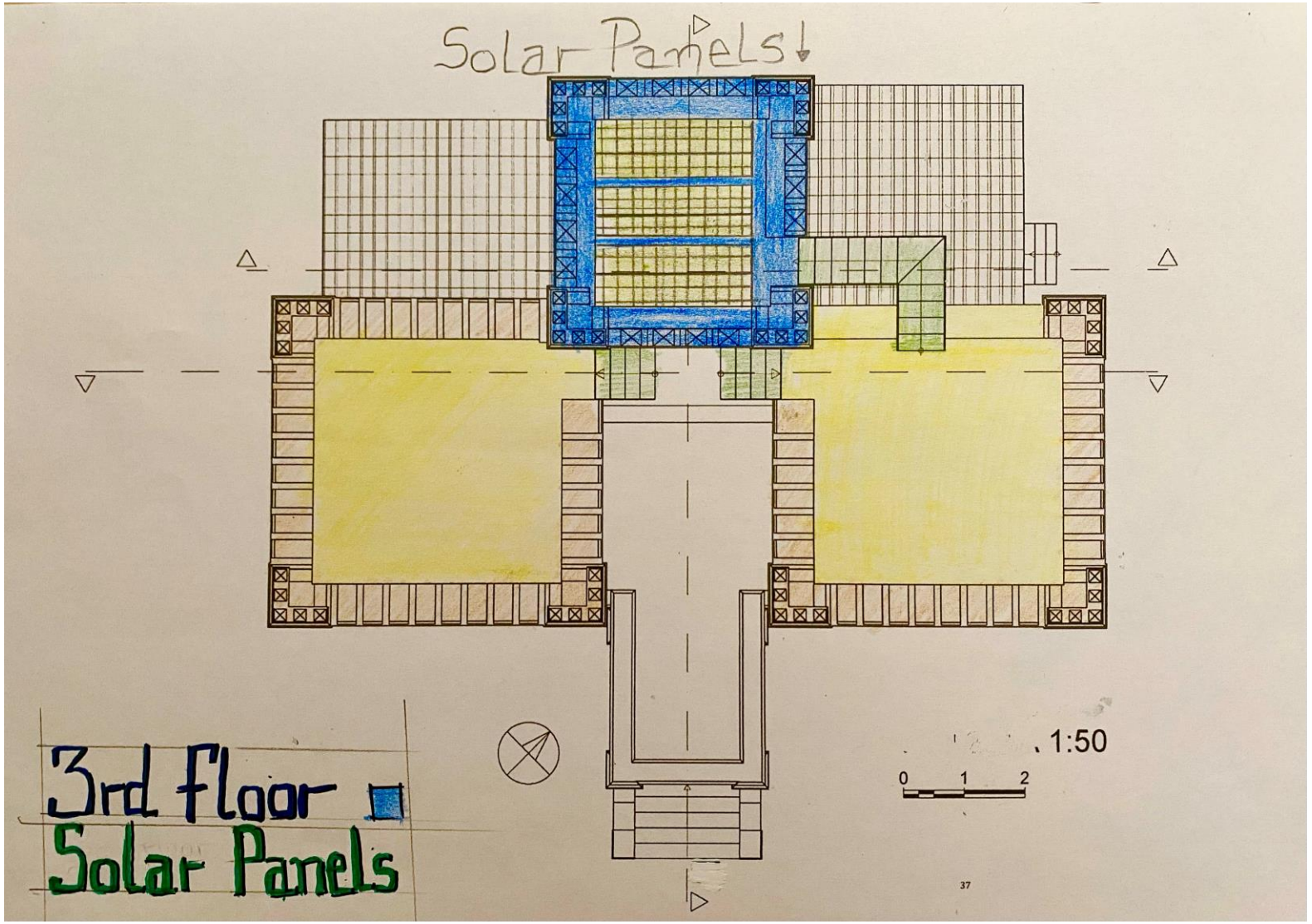

W.C
Library
Library
OFFICE
Basement
Library
1:50
0 1 2
28
29


WC
Pottery Class
*Exhibition area
Art Class
Dance Class
LOBBY
1:50
0 1 2
Ground Floor
Art Classes


Mezzanine
Gift Shop-Caffe
1:50
0 1 2
30
31

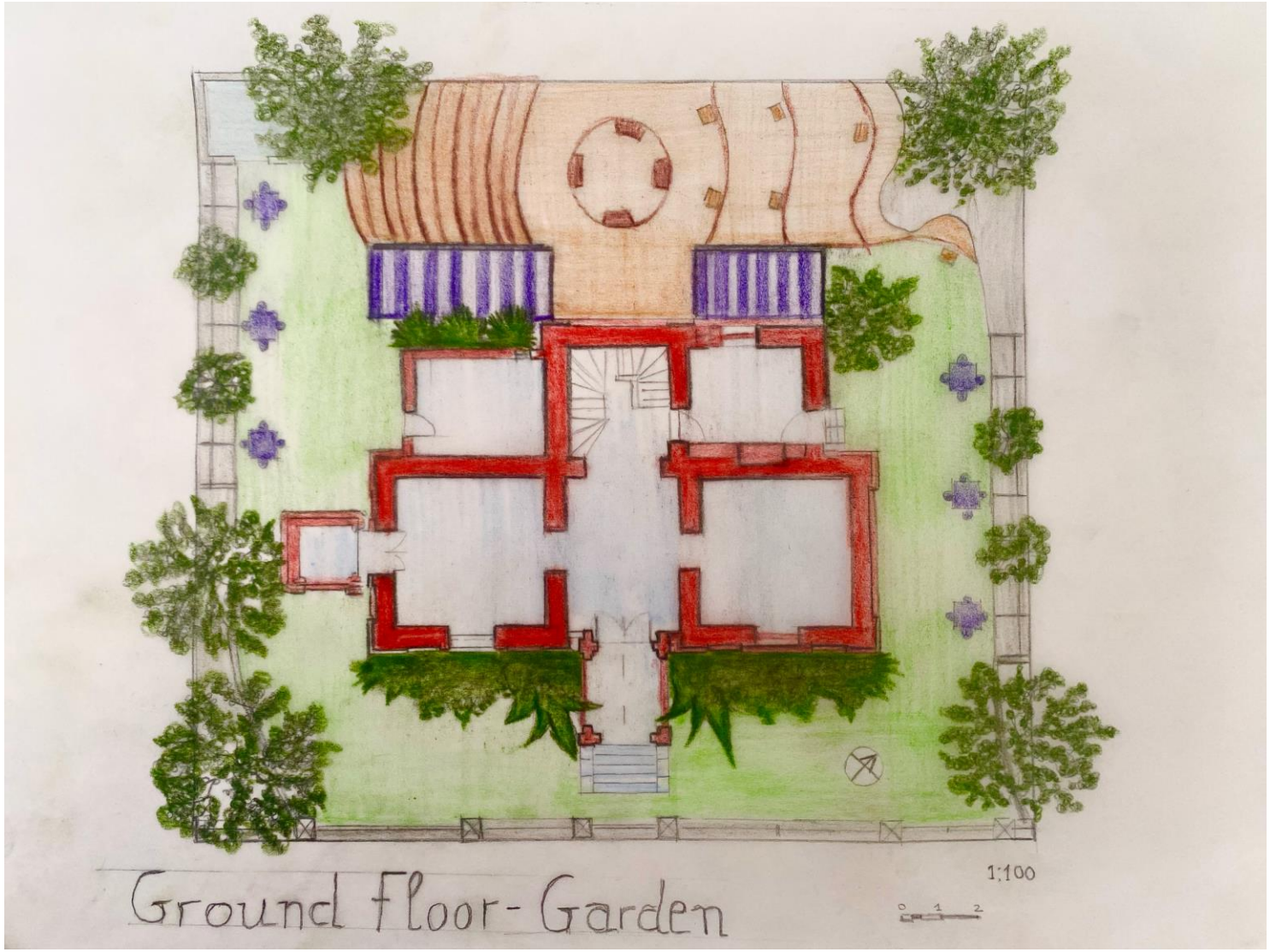

Class
1 and 2
Class
3 and 4
Class
5 and 6
* Exhibition
area (outdo
* Study
area
1:50
0 1 2
1st Floor
Languages Classes
32
33

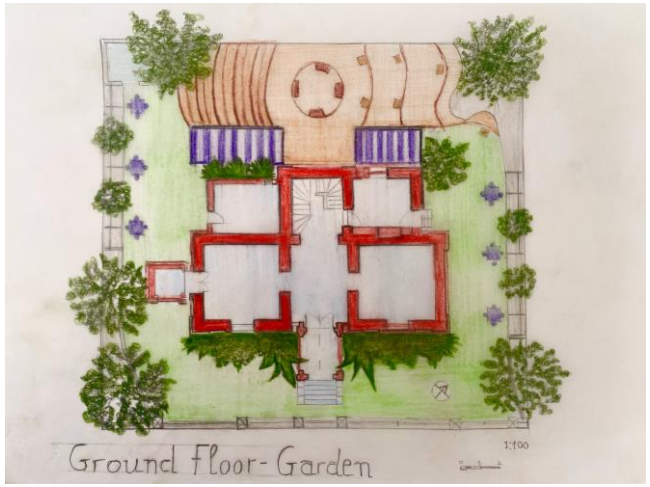

2nd Floor
Caffe
1:50
0 1 2
34
35


Solar Panels!
1:50
0 1 2
37
3rd Floor
Solar Panels

Garden

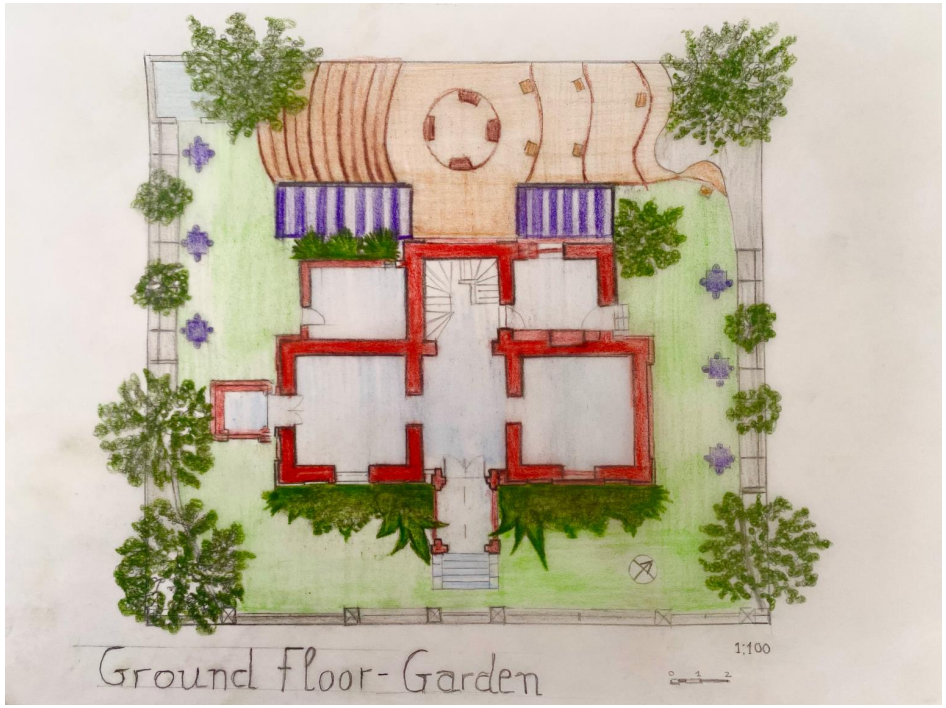
The garden of Typaldos Tower has a lot of trees which we use for the **sound insulation** of the building, the **shading** of the building and the creation of **coolness** during the summer months.

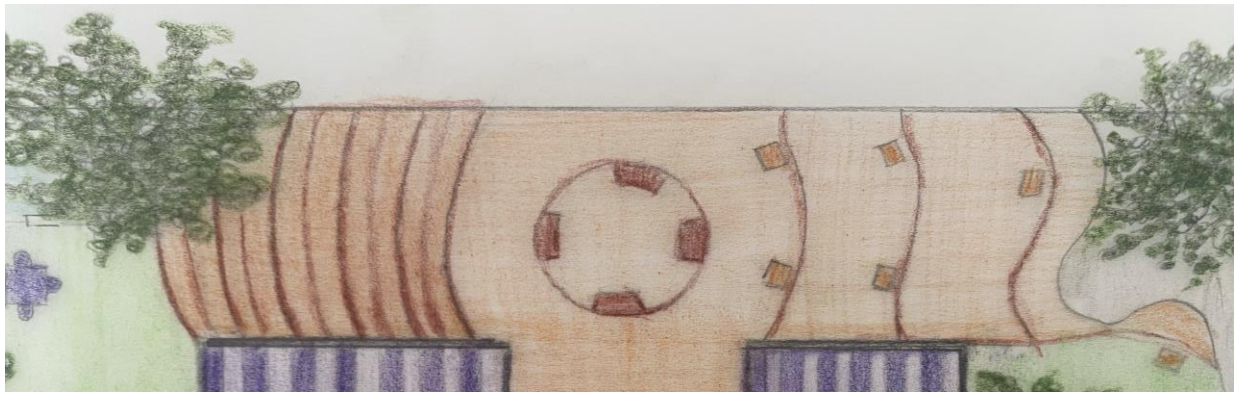

Ground Floor - Garden
1:100
0 1 2



The Entrance

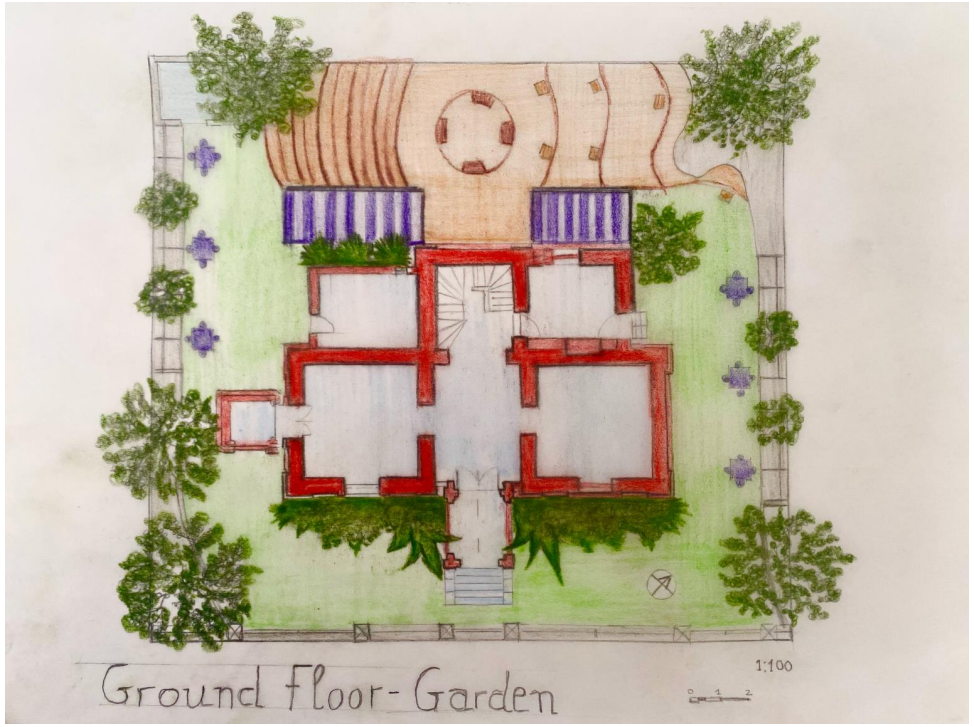
- The plants and trees of the entrance work for sound insulation but also for shading, creating coolness during the summer months.





Amphitheater & Reading area

- The amphitheater will host **performances, concerts and events**.
- Students and visitors will be able to **study** and **discuss** in the reading area



SHADES

The **shades** that we suggest to be placed in the garden have **multiple uses**.

They can be used for **shade** but also for extreme weather conditions such as **rain**

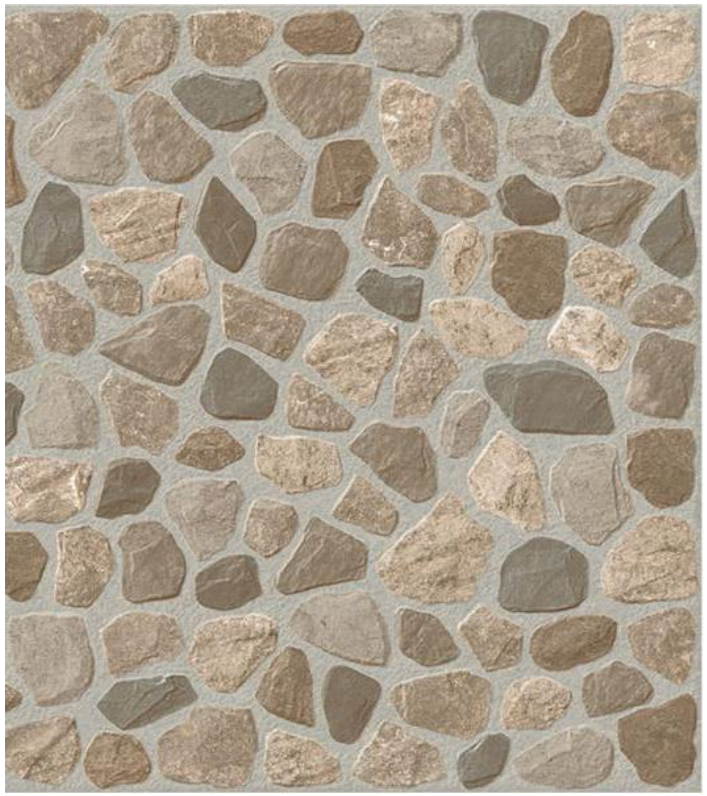
Reading area

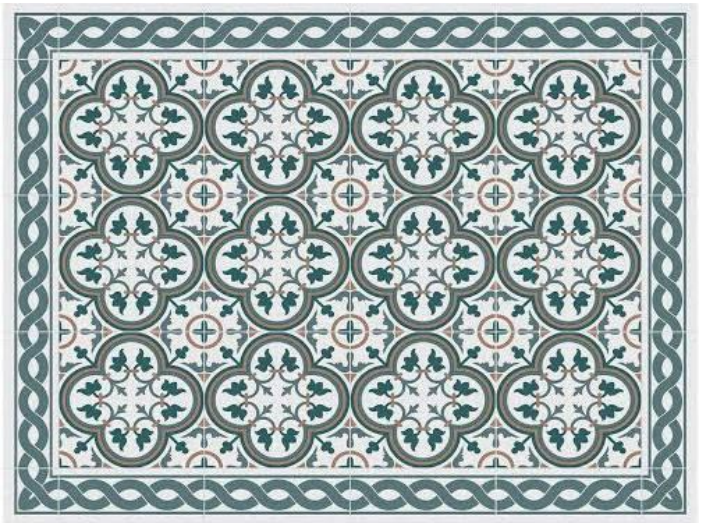
On both sides, an outer **fence** can be constructed.

Benches, tables and chairs can be placed in the same space in case of **events**.

Part 3.

- The eco friendly reconstruction
- The bio climatic choice



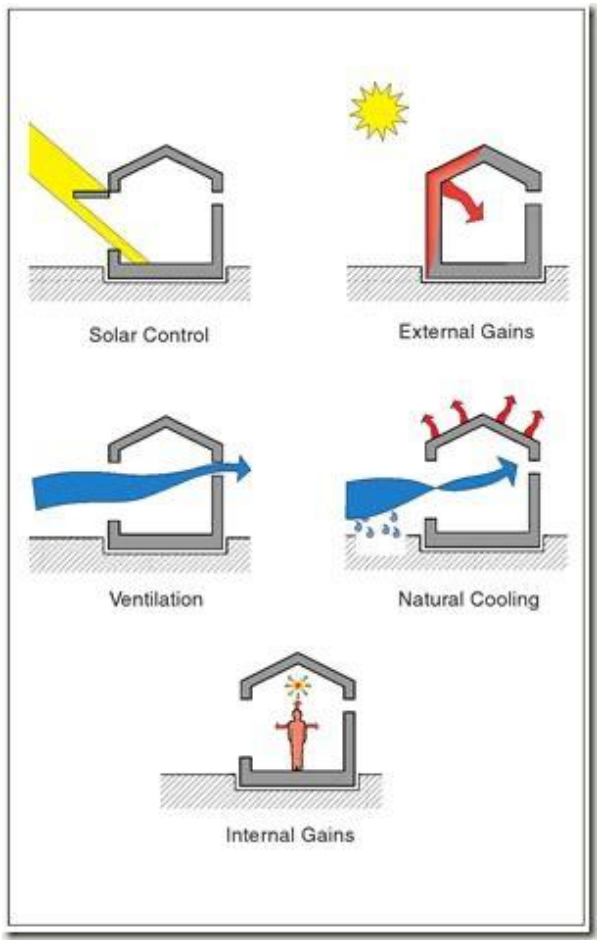


The eco friendly reconstruction

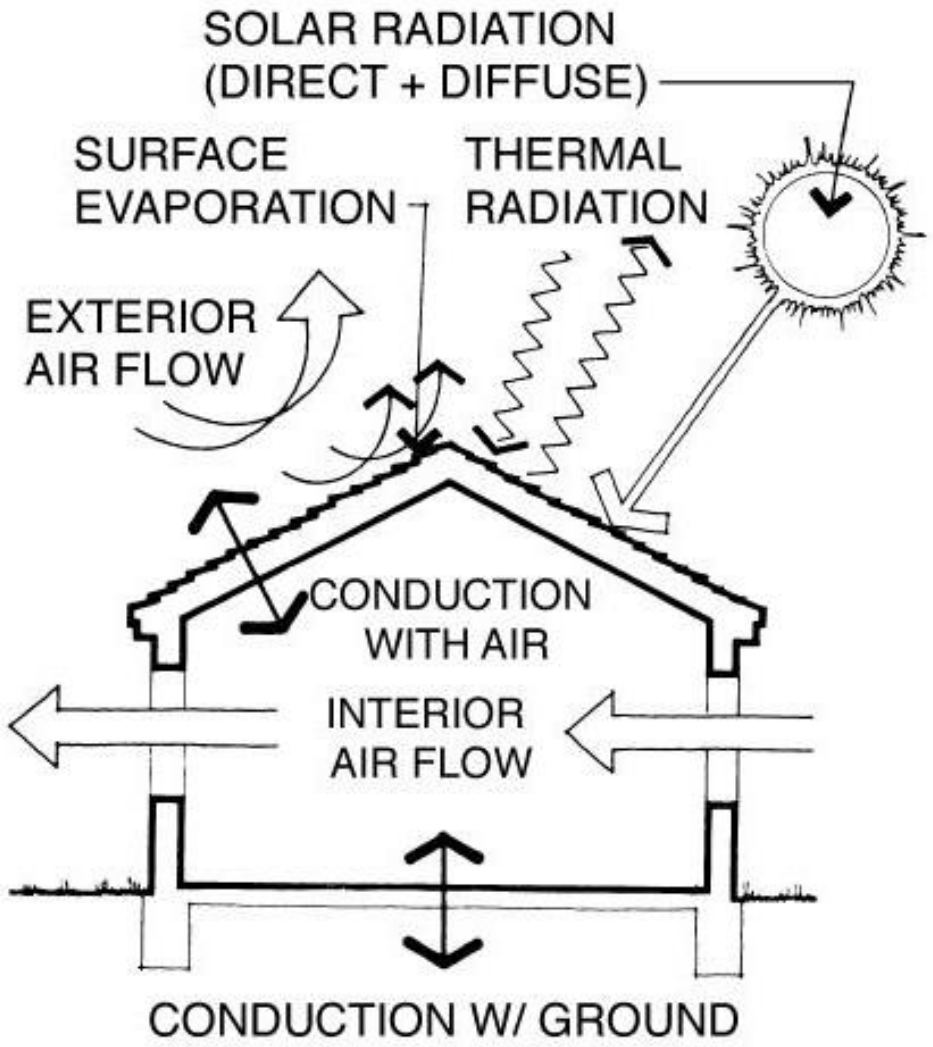
Eco friendly building materials for the reconstruction of the tower:

- Stones
- Ceramic tiles
- Wood for the doors and staircase
- Utilization (recycling) of existing materials

Bioclimatic choice



- bioclimatic architecture
- solar energy and other renewable sources
- the local climate, commonly referred to as the microclimate, as well as the properties of building
- materials and architectural elements



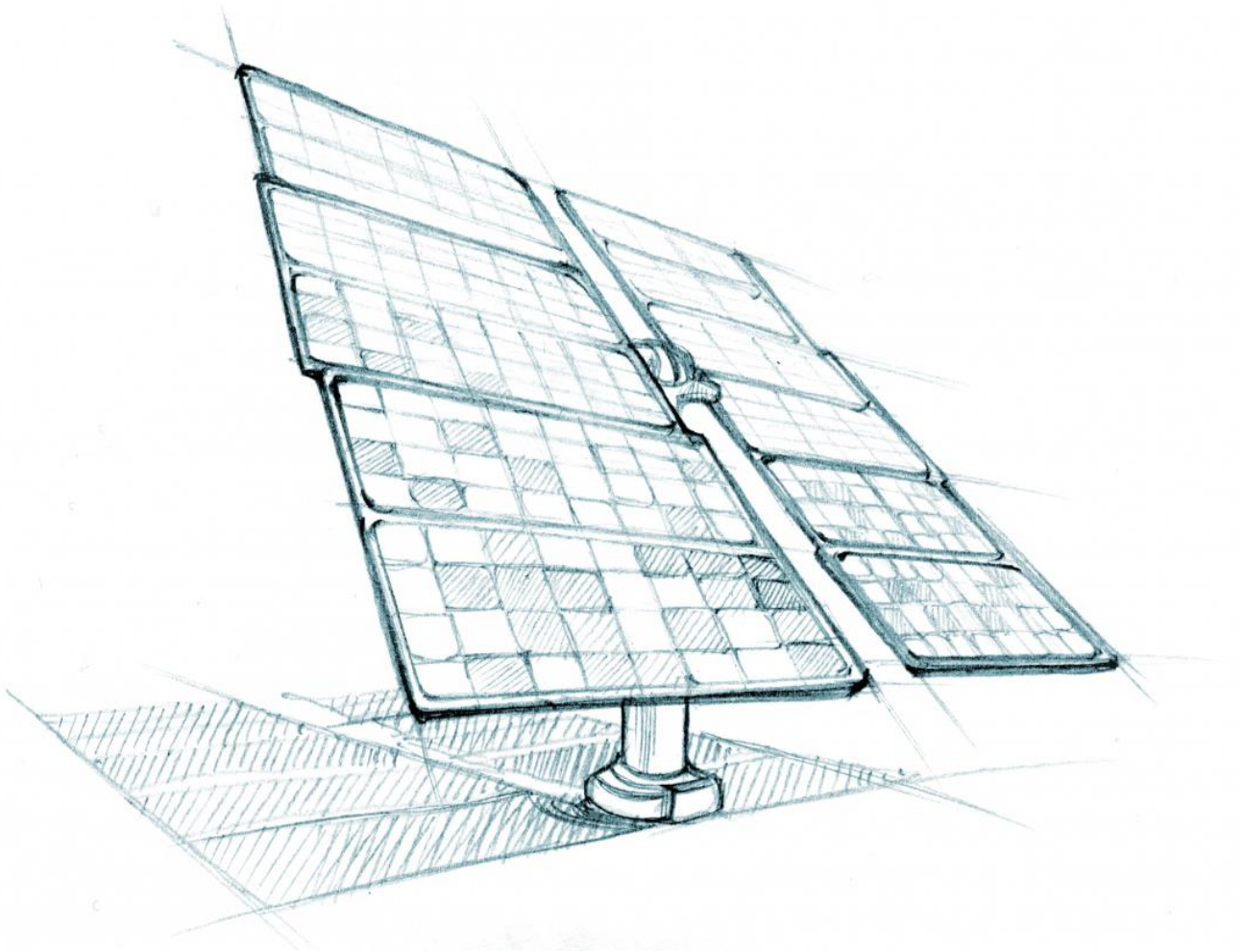
Paths of energy exchange at the building microclimate (Watson and Labs 1993)

Specific objectives of Bioclimatic Design

- Sun in winter
- Protection from winds
- Minimize heat loss
- Protection from summer sun
- The exploitation of cool winds in summer.
- The removal of excess heat in summer

Surrounding area

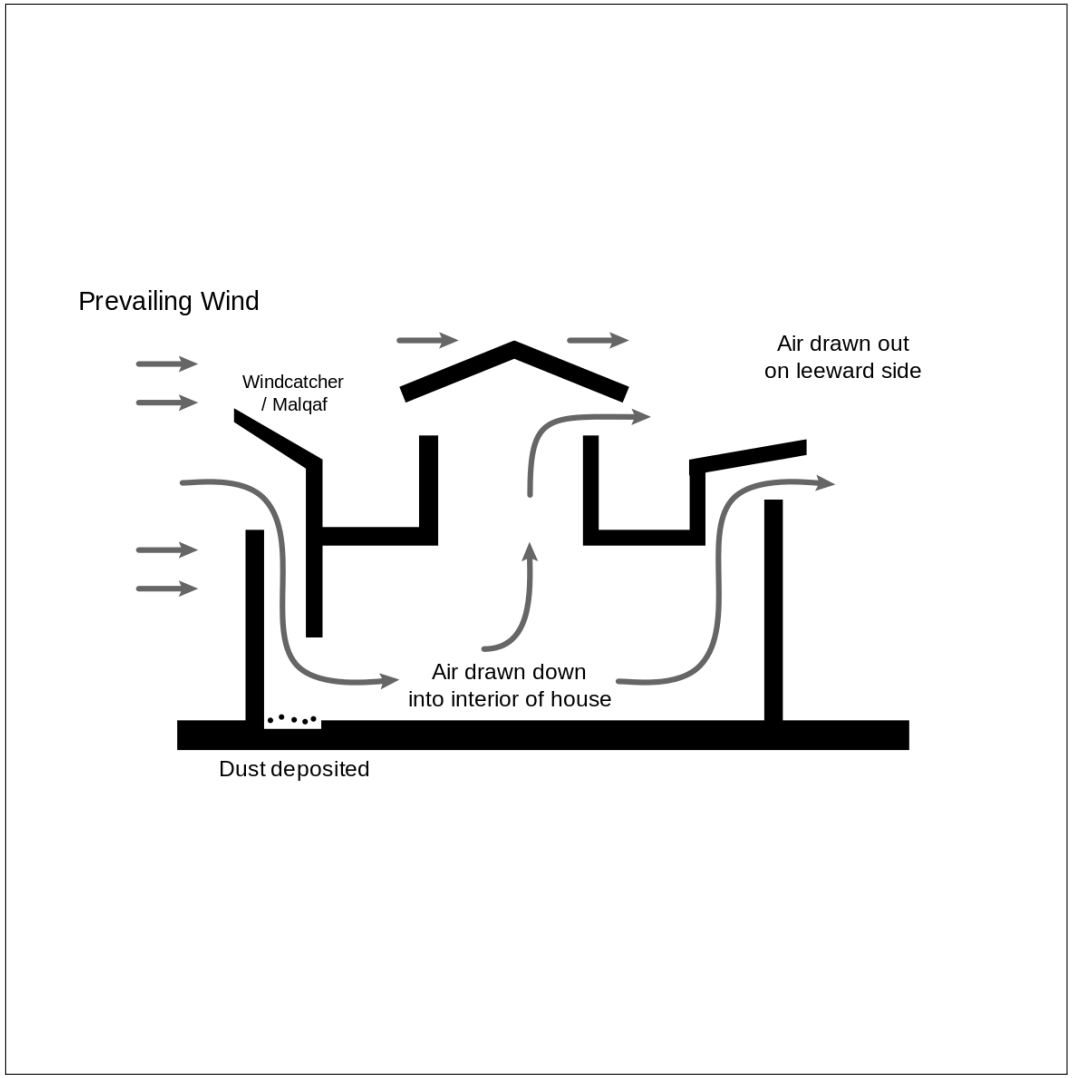
- **We need to pay attention to the microclimate around the building**.
- The vegetation can be used for sun protection, shading and protection from the winds.
- The building has many trees that protect the microclimate not only in the winter but also in the summer.



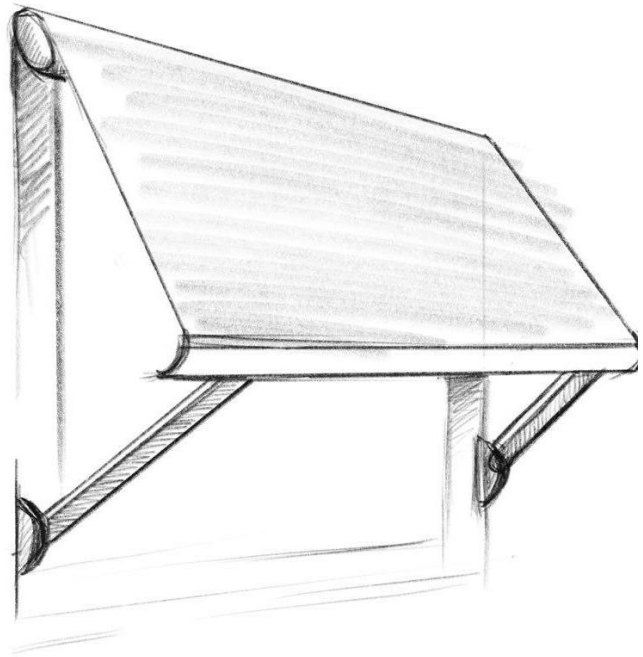
SOLAR PANELS FOR THE TOWER

The solar panel is a device that accumulates solar radiation and converts it into heat .

Passive natural cooling systems

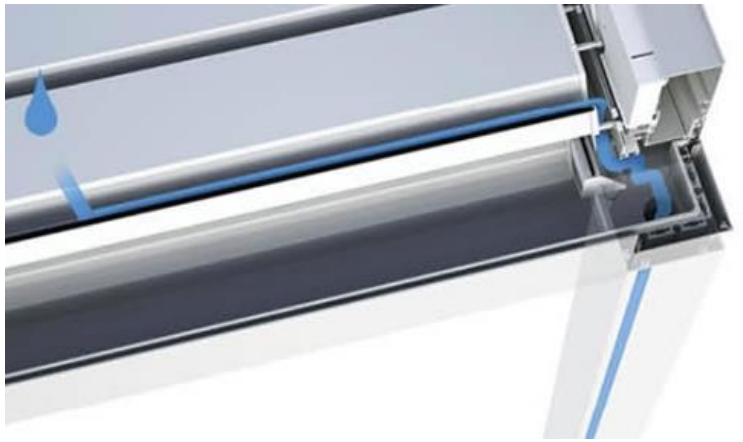


- **Ventilation of the building is very important.**
- **It helps to remove excess heat and therefore keeps the building cool in the summer months.**



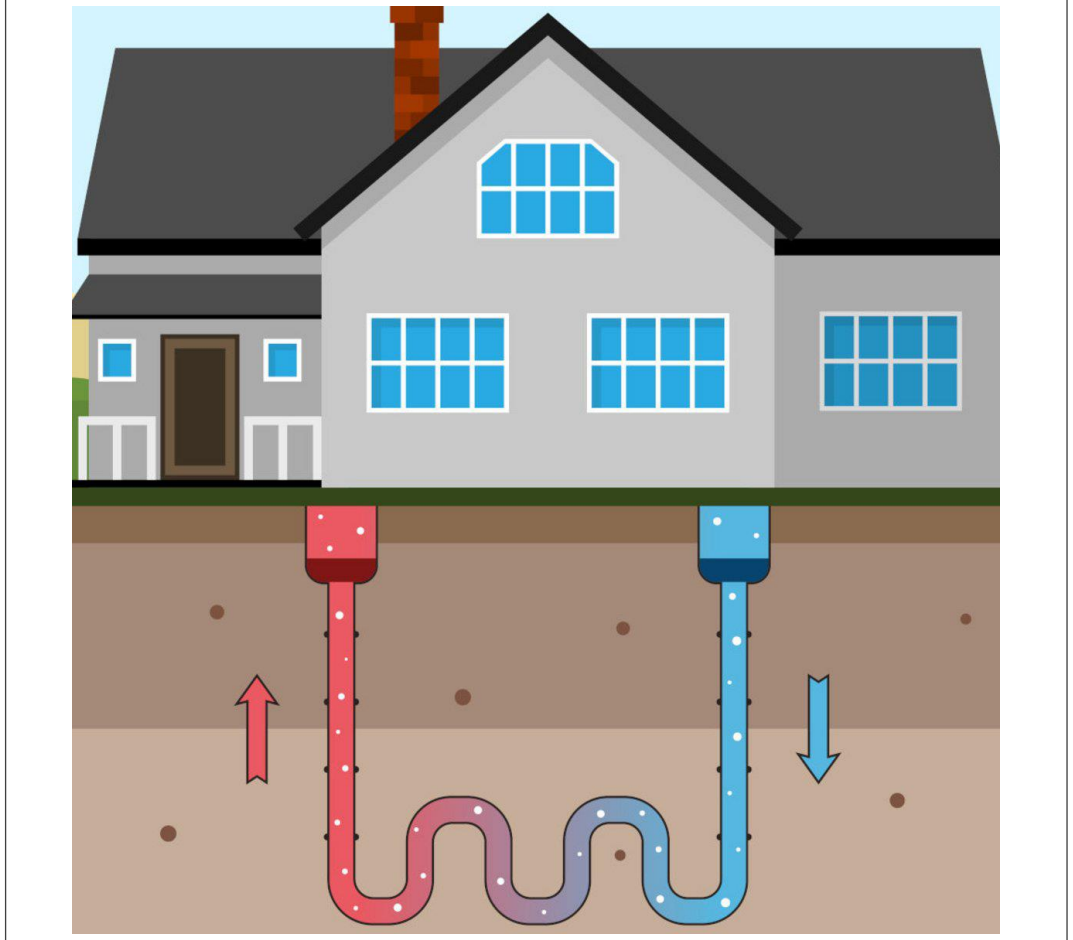
Shades

- **Exterior shades with movable blinds are the most effective way of shading.**
- Specifically, horizontal exterior shades are recommended for the south side and vertical exterior shades for the east and west side of the house.



Shades for the garden

Geothermal



- **With the geothermal heat pump and the piping network that is placed a few meters below the surface of the ground achieving the heat of the liquid element** (well, sea, lake, etc.), (from and to the ground) and maintaining the temperature of the water that we are interested in constant (around 20C-23C).
- .

THANK YOU FOR YOUR ATTENTION!