



ISOVER Multi-Comfort School in Gaziantep

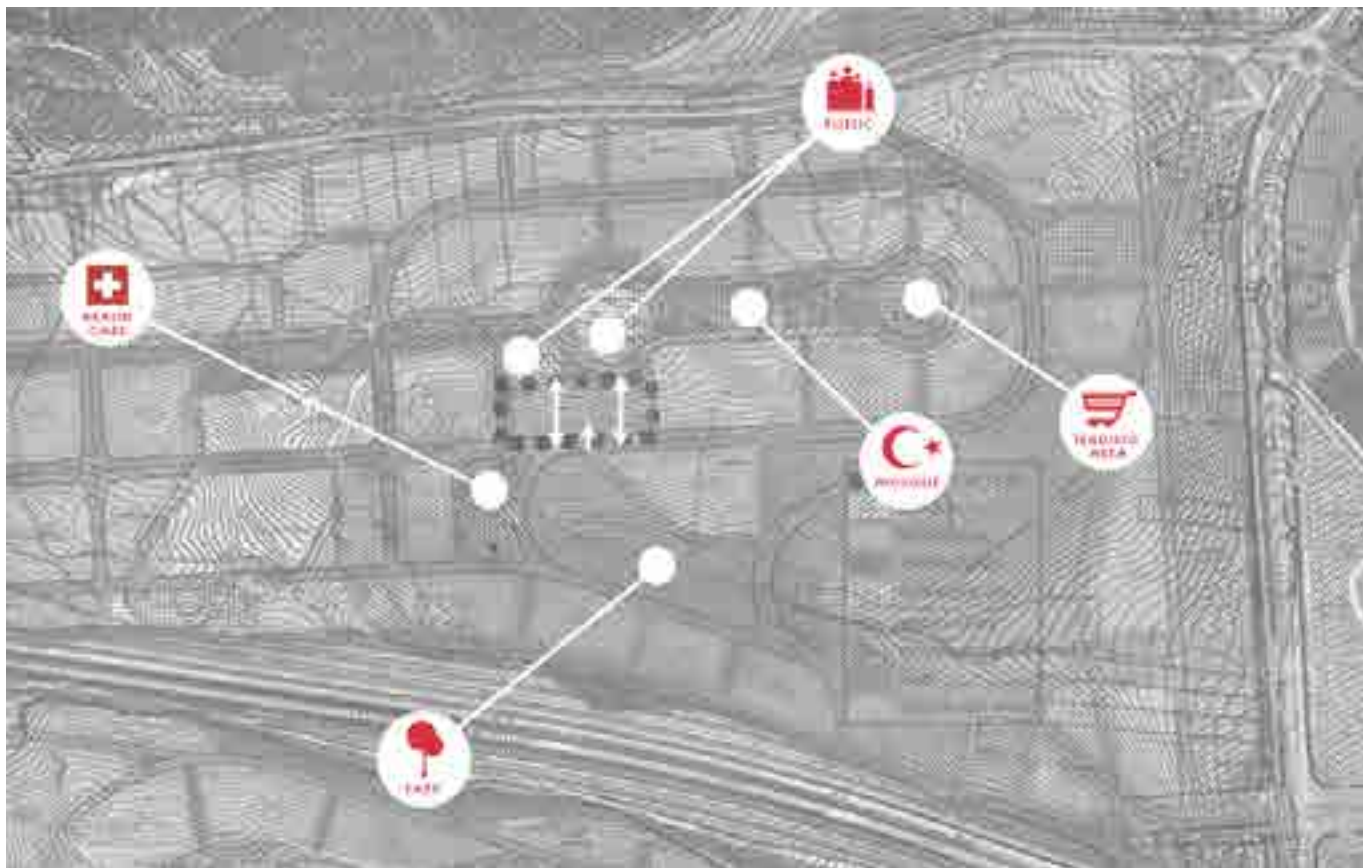
Lili Rudenko
Ulyana Prytyka
Anna Hots



Regional plan



Surrounding place



Area



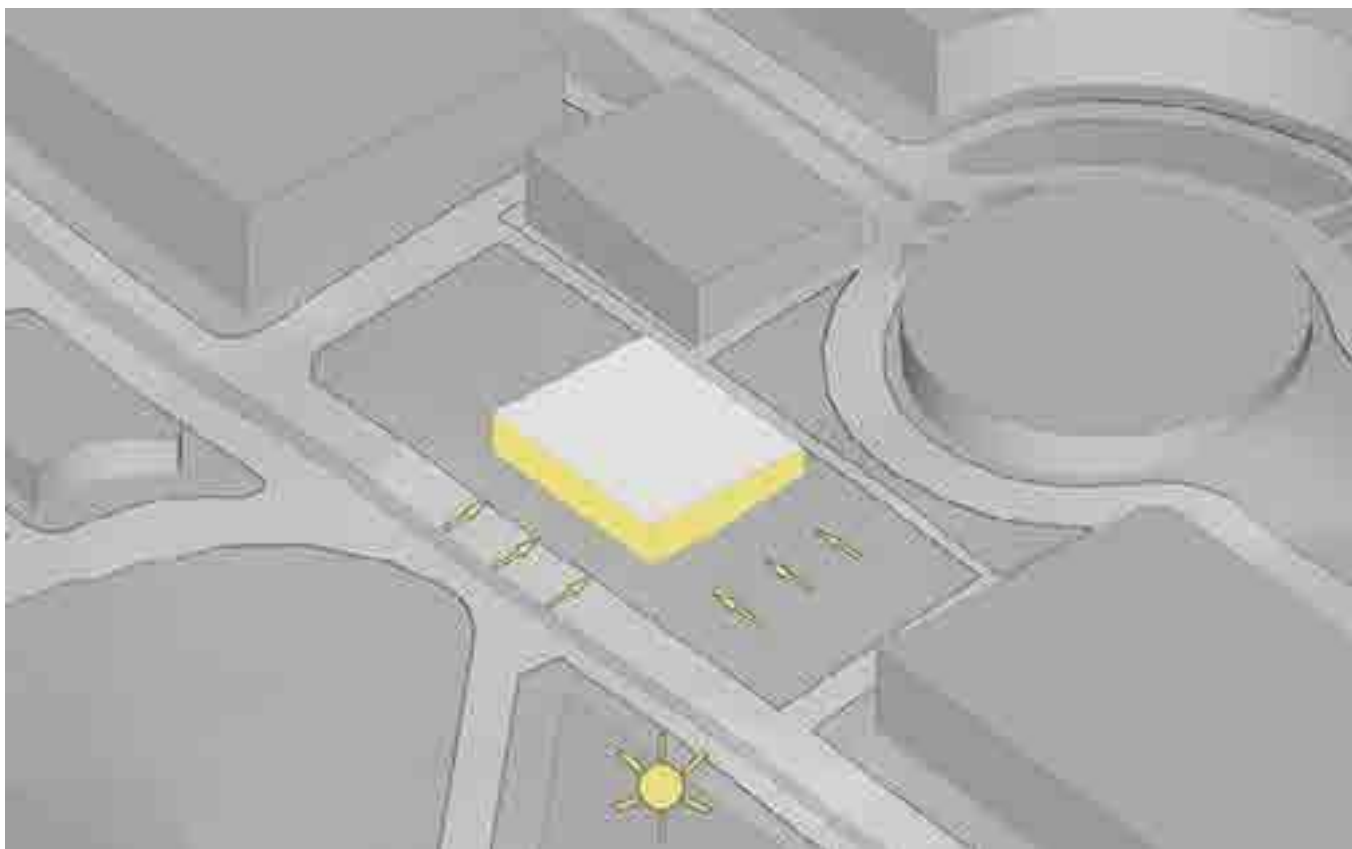
Relief



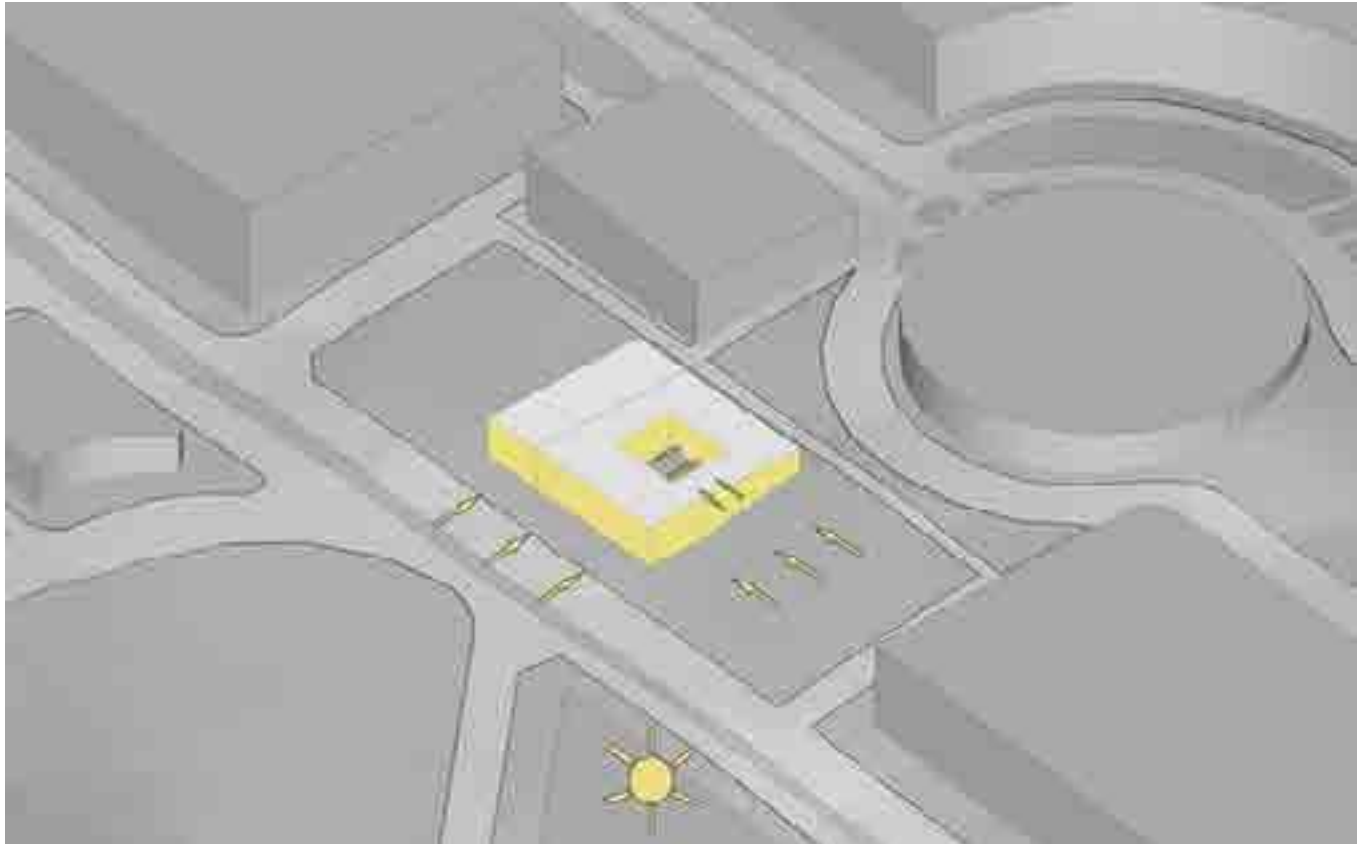
Creation forms



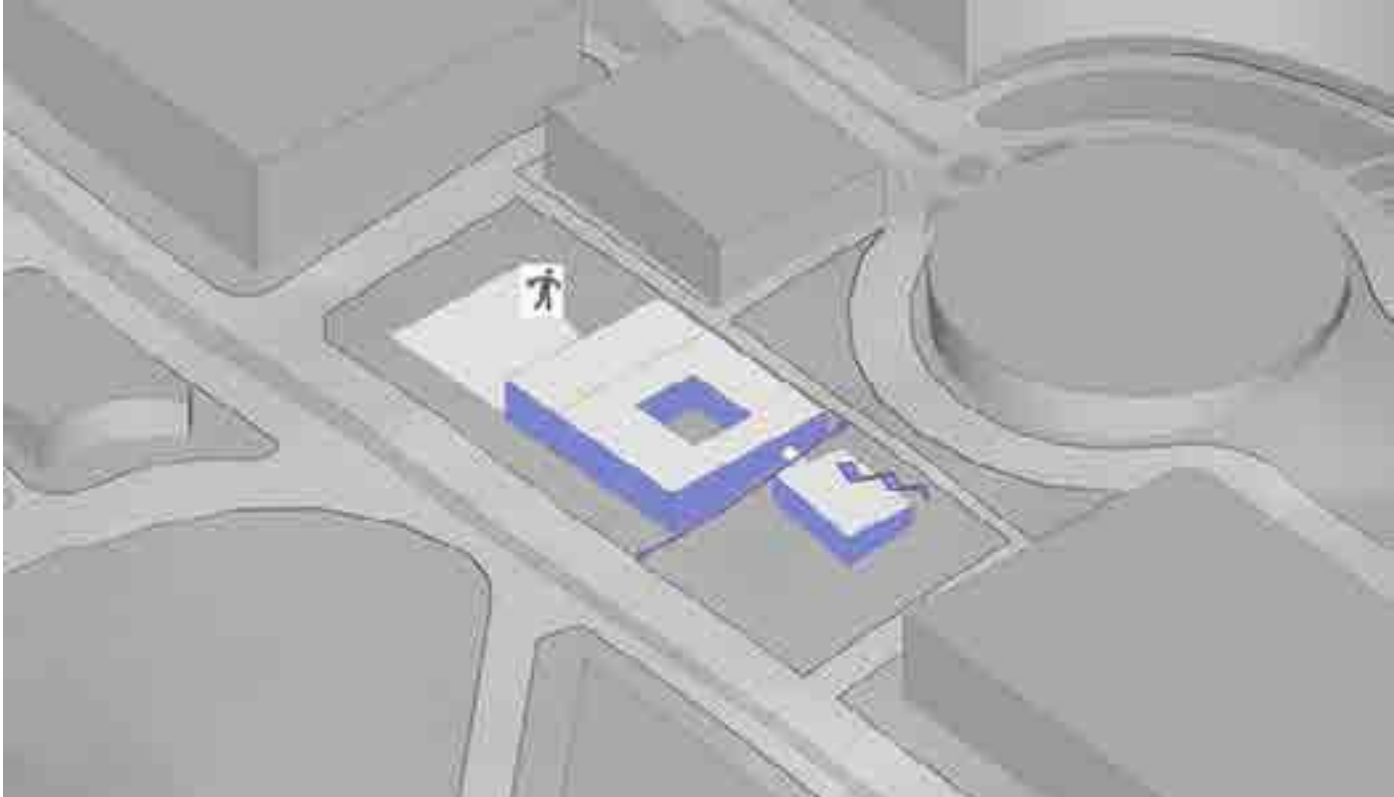
Sunlight south and east



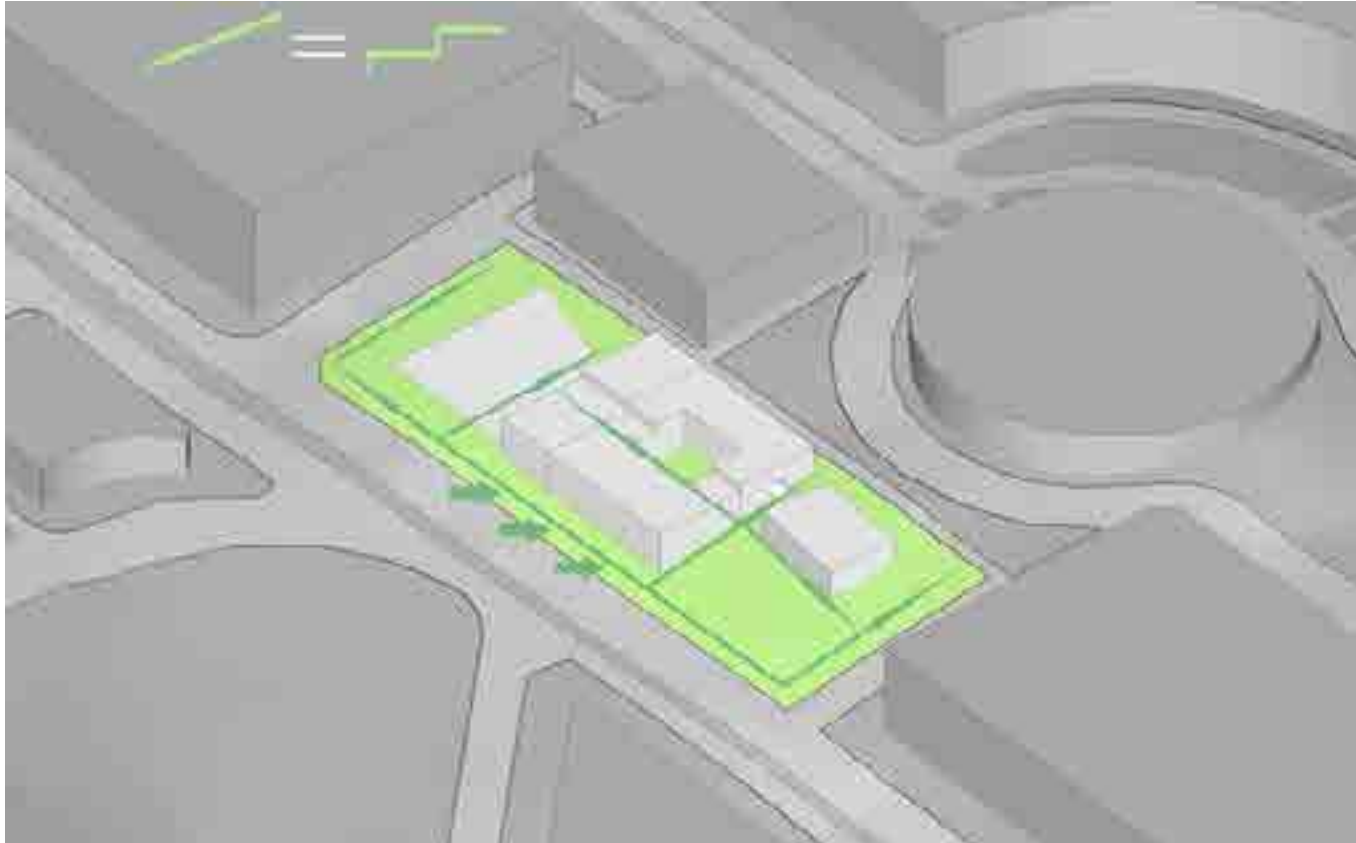
More sunlight from south and east



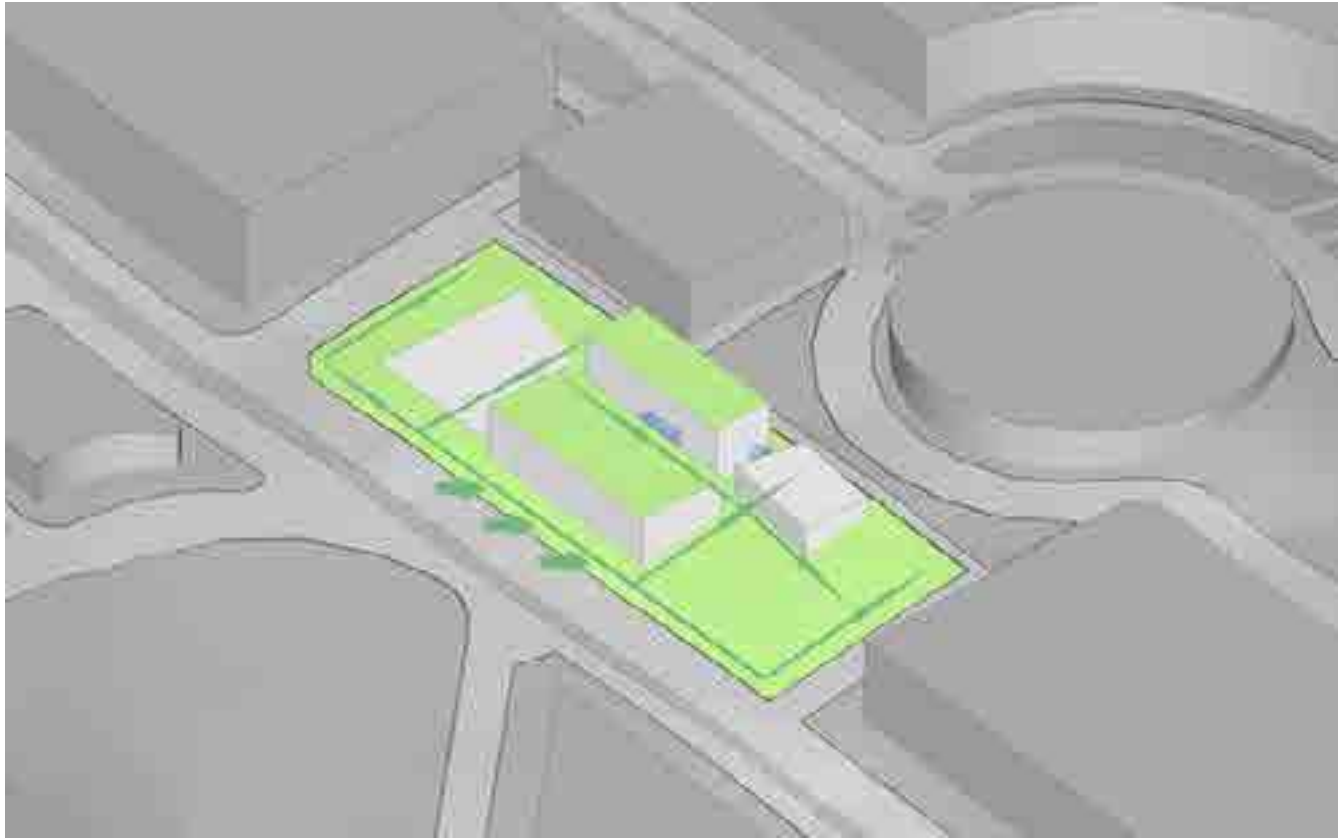
Separate kitchen and sport place from school
because of the noise and odors



Seat building on relief, determine transit routes



Divide the building into two parts, connected by glass transition



Master Plan



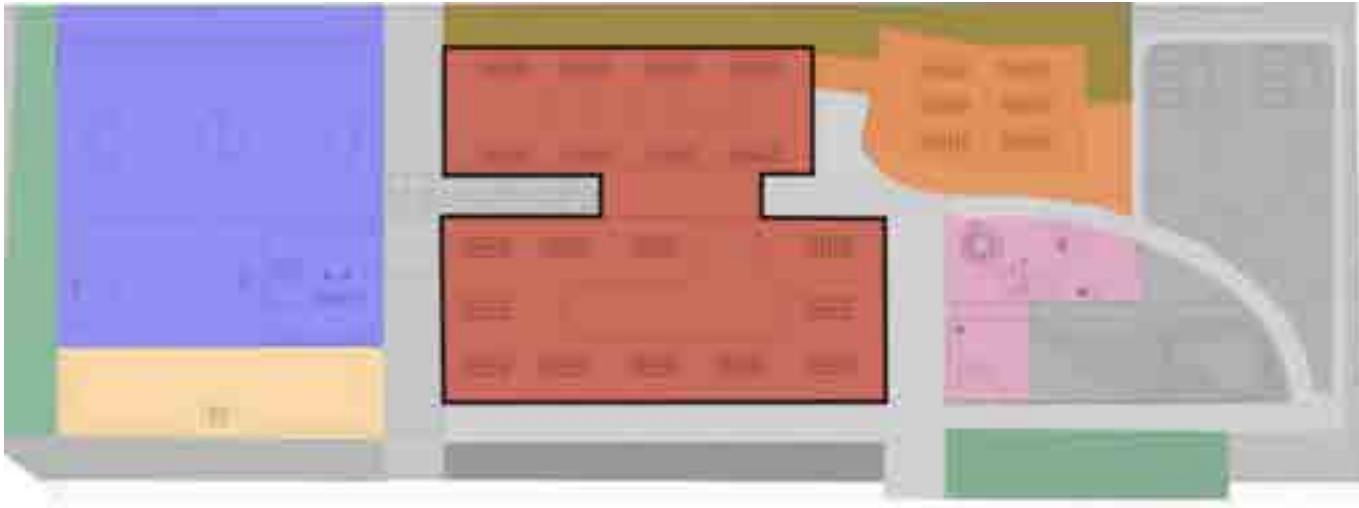
1.School
2.Canteen
3.Football Pitch
4.Basketball Pitch

5.Sport Playground
6.Meeting Place
7.Garden
8.Playground

9. Garden
10. Greenhouse
11.Parking
12.Bus Stop



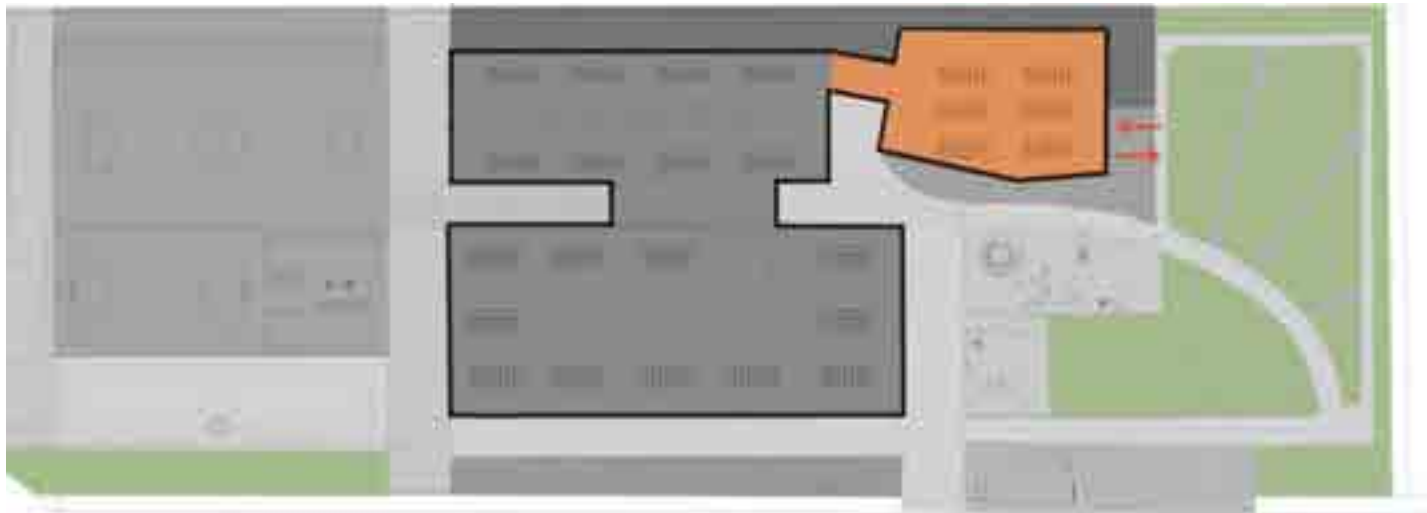
Functional zoning



- | | | |
|--|--|---|
|  - school |  - household zone |  - meeting place |
|  - parking | |  - sport |
|  - canteen | |  - playground |



Functional zoning



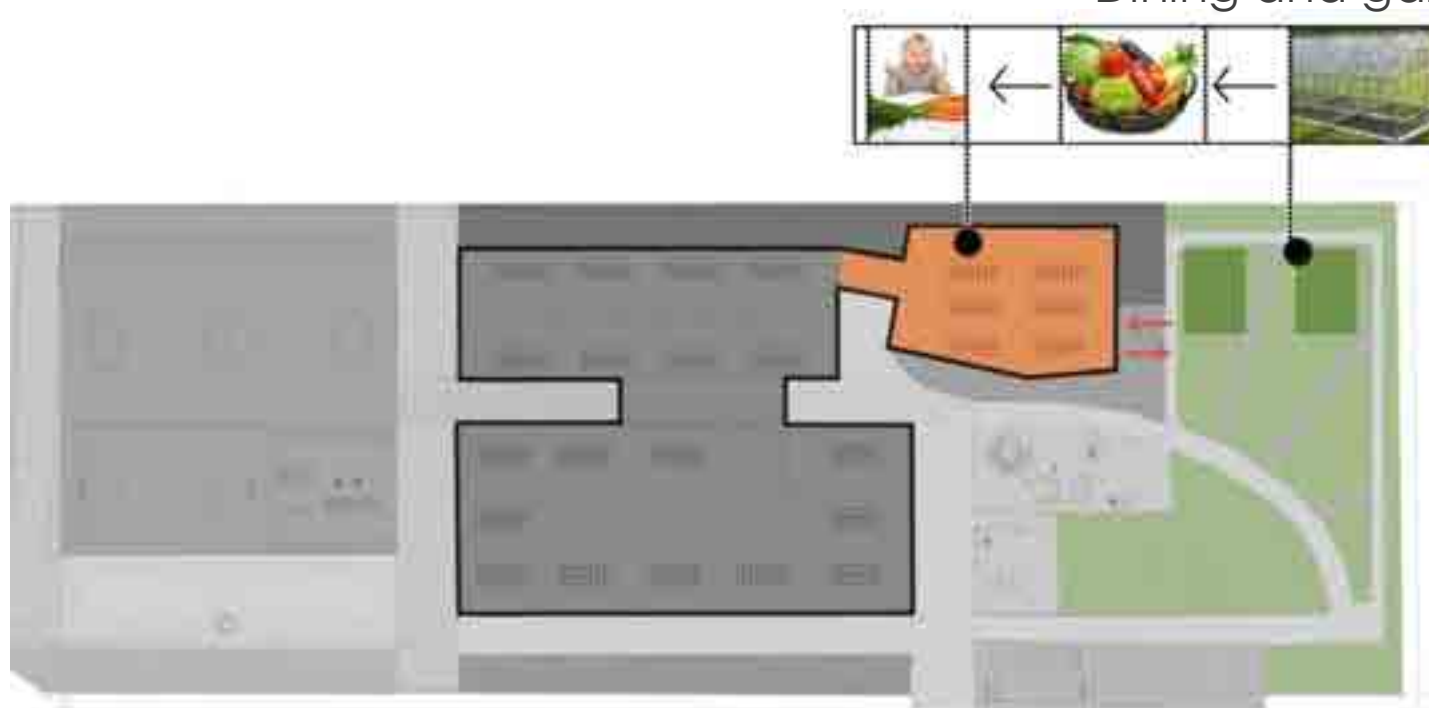
- garden



- dining



Dining and garden



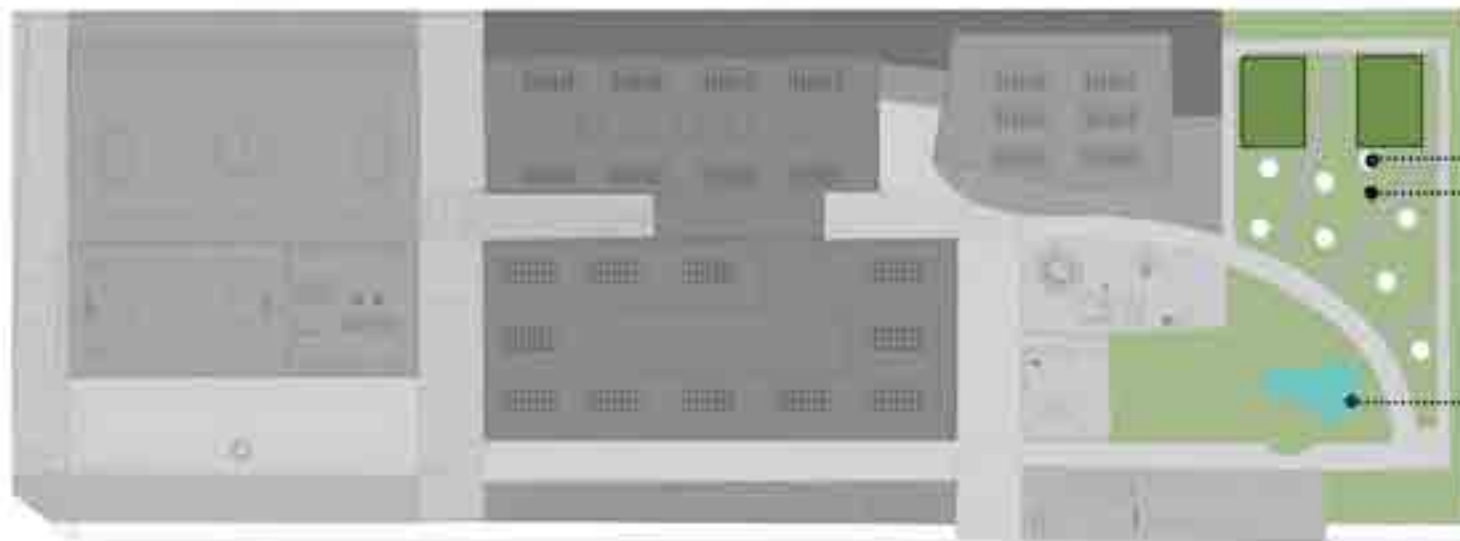
- garden



- dining



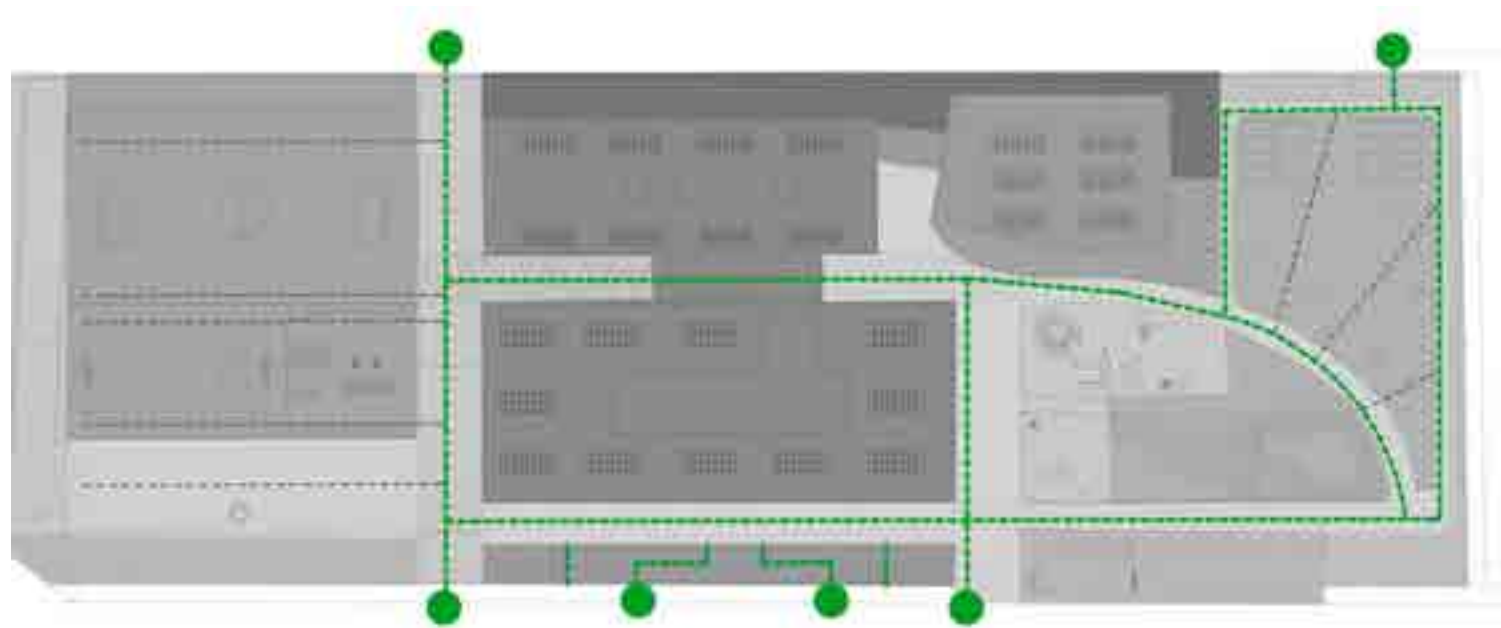
Garden



- garden



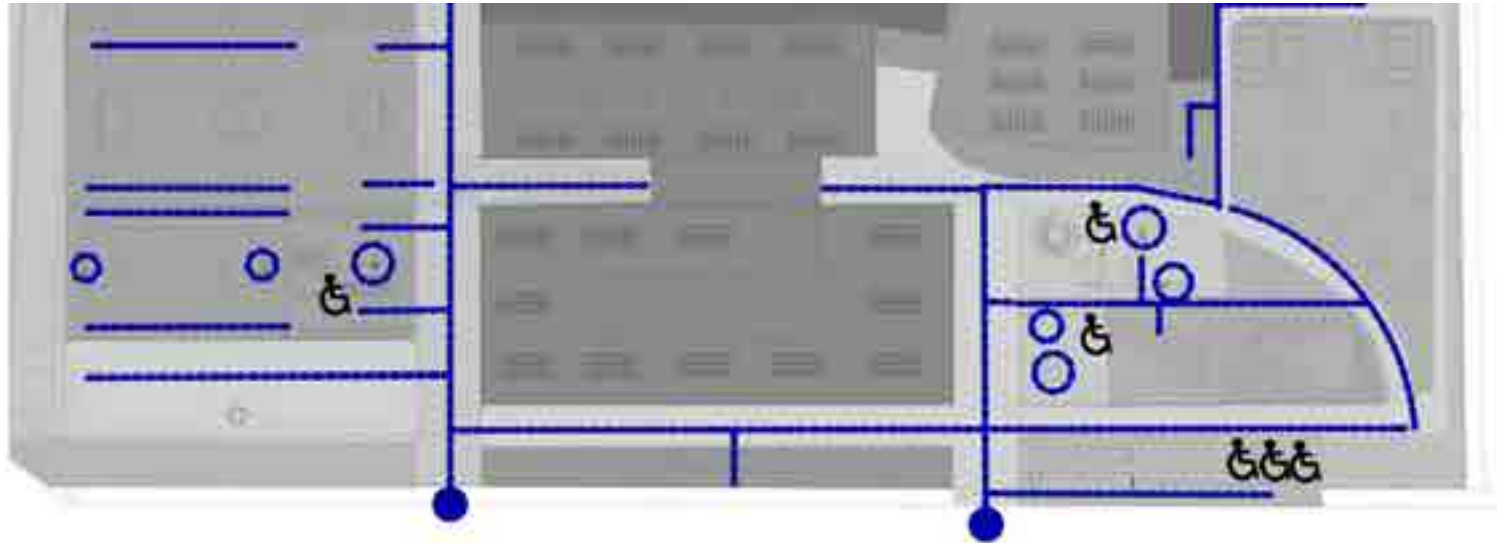
Paths



 - pedestrian paths



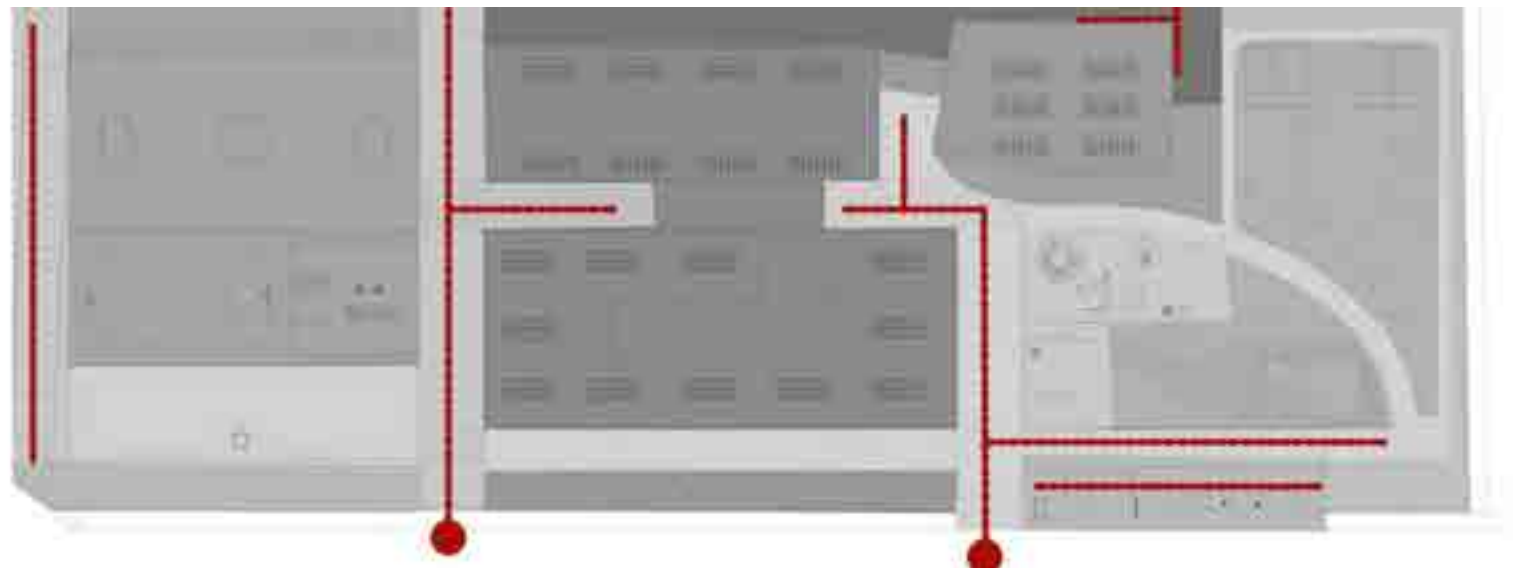
Paths



—— paths for disabled



Roads



----- - road



Ground Floor(I building)



Ground Floor(II building)



Plan of cafeteria



First Floor(I building)



First Floor(II building)



Scheme of devices for disabled



Entrance zone



Front elevation



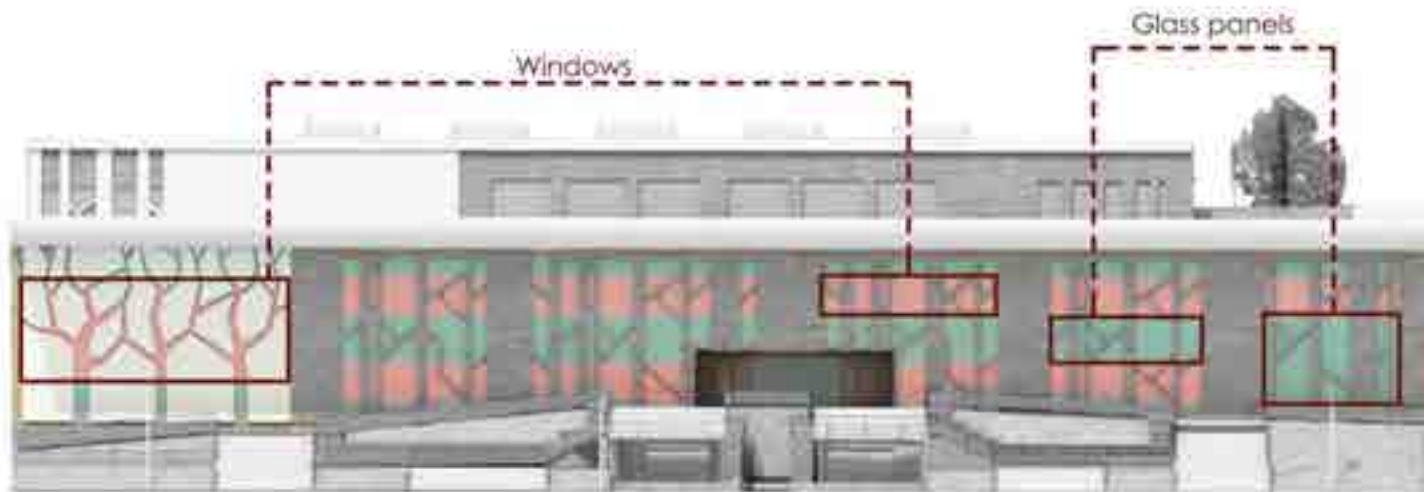
East elevation



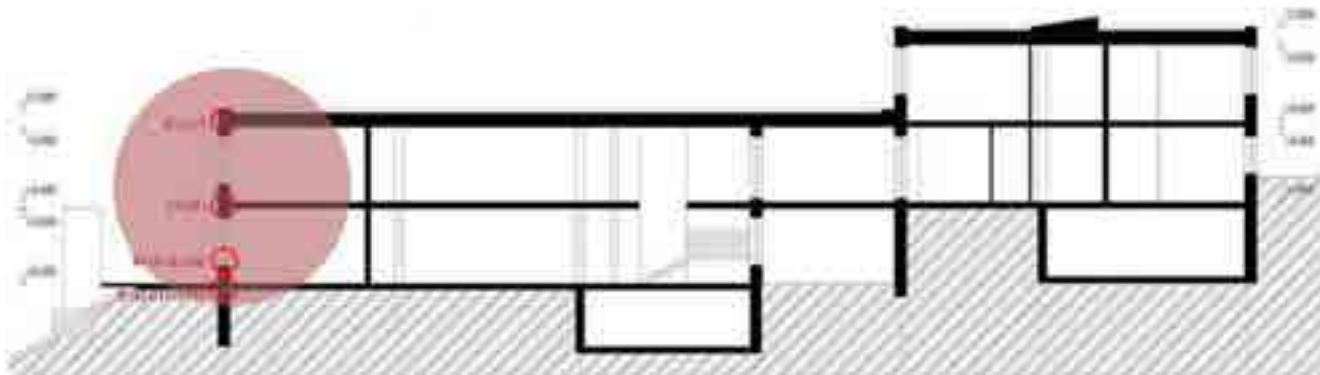
West elevation



Scheme of windows



Details



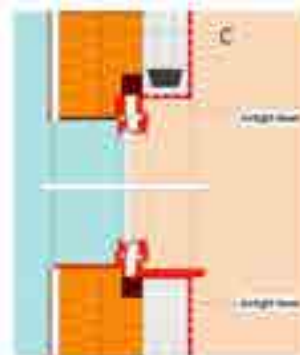
Roof



Slab



Window



Basement



Calculations

H. Calculations		I building
Transmission Heat Losses:	9737.82	
Ventilation Heat Losses:	2712.36	
Total Heat Losses:	12450.18	
Internal Heat Gains:	3420.22	
Available Solar Heat Gains:	4946.26	
Total Heat Gains:	7960.02	
Annual Heat Demand:	4490.16	
Specific Annual Heat Demand:	10.82	< 15.00

H. Calculations		II building
Transmission Heat Losses:	15453.66	
Ventilation Heat Losses:	6596.15	
Total Heat Losses:	22049.80	
Internal Heat Gains:	6777.79	
Available Solar Heat Gains:	4990.42	
Total Heat Gains:	11524.97	
Annual Heat Demand:	10524.04	
Specific Annual Heat Demand:	12.84	< 15.00

H. Calculations		Cafeteria
Transmission Heat Losses:	29921.56	
Ventilation Heat Losses:	7526.26	
Total Heat Losses:	37430.82	
Internal Heat Gains:	7924.96	
Available Solar Heat Gains:	22557.56	
Total Heat Gains:	27631.92	
Annual Heat Demand:	9816.87	
Specific Annual Heat Demand:	10.23	< 15.00



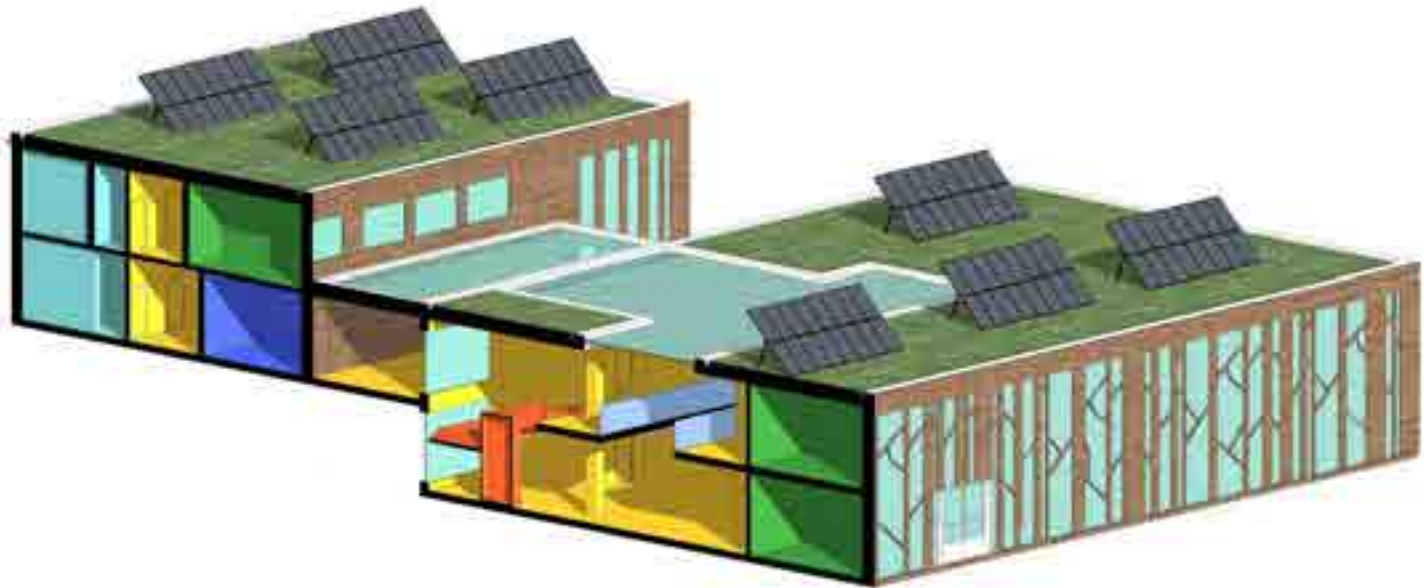
Section

Ventilation scheme with heat recovery

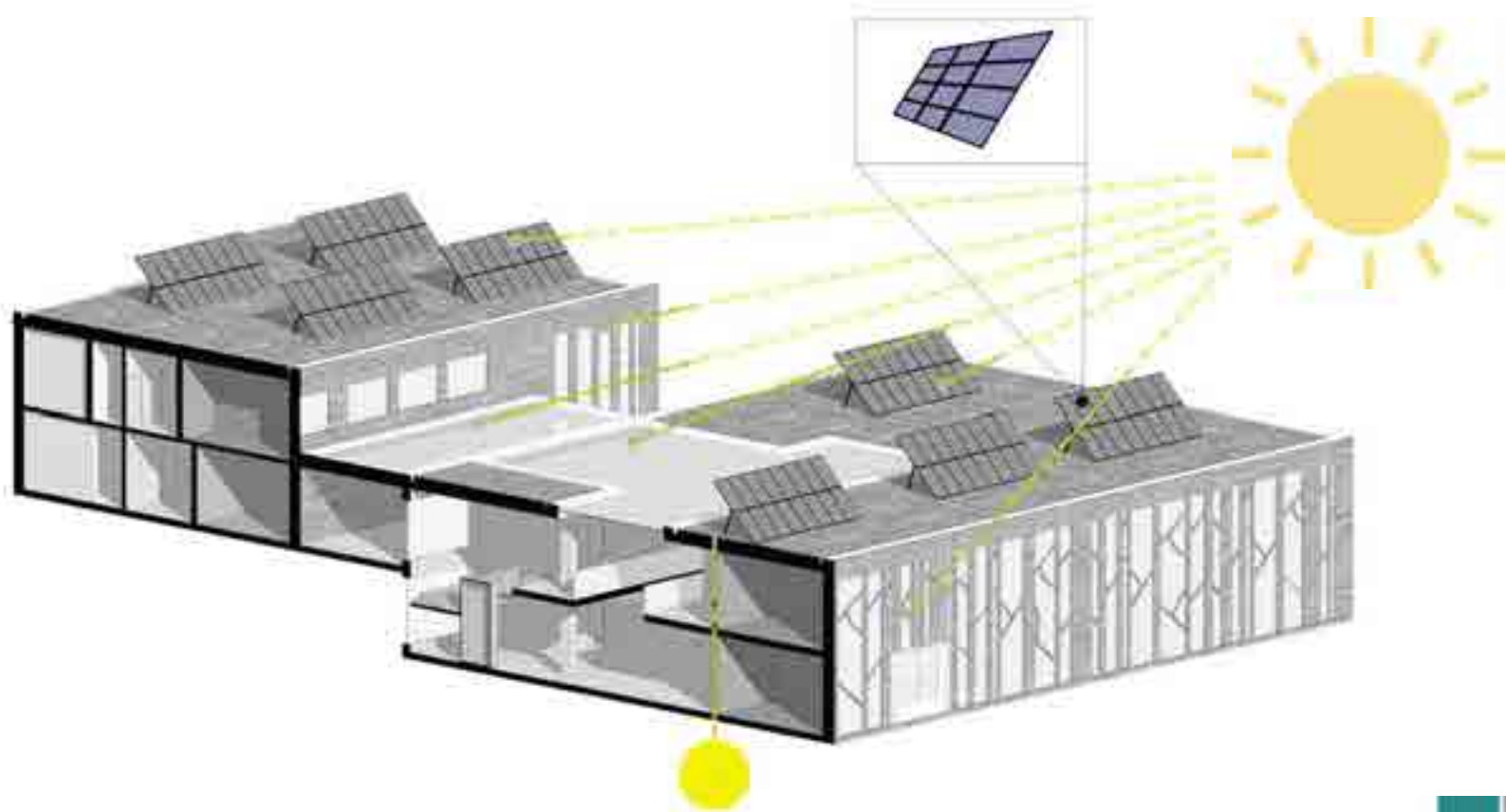
Scheme of rational use of water



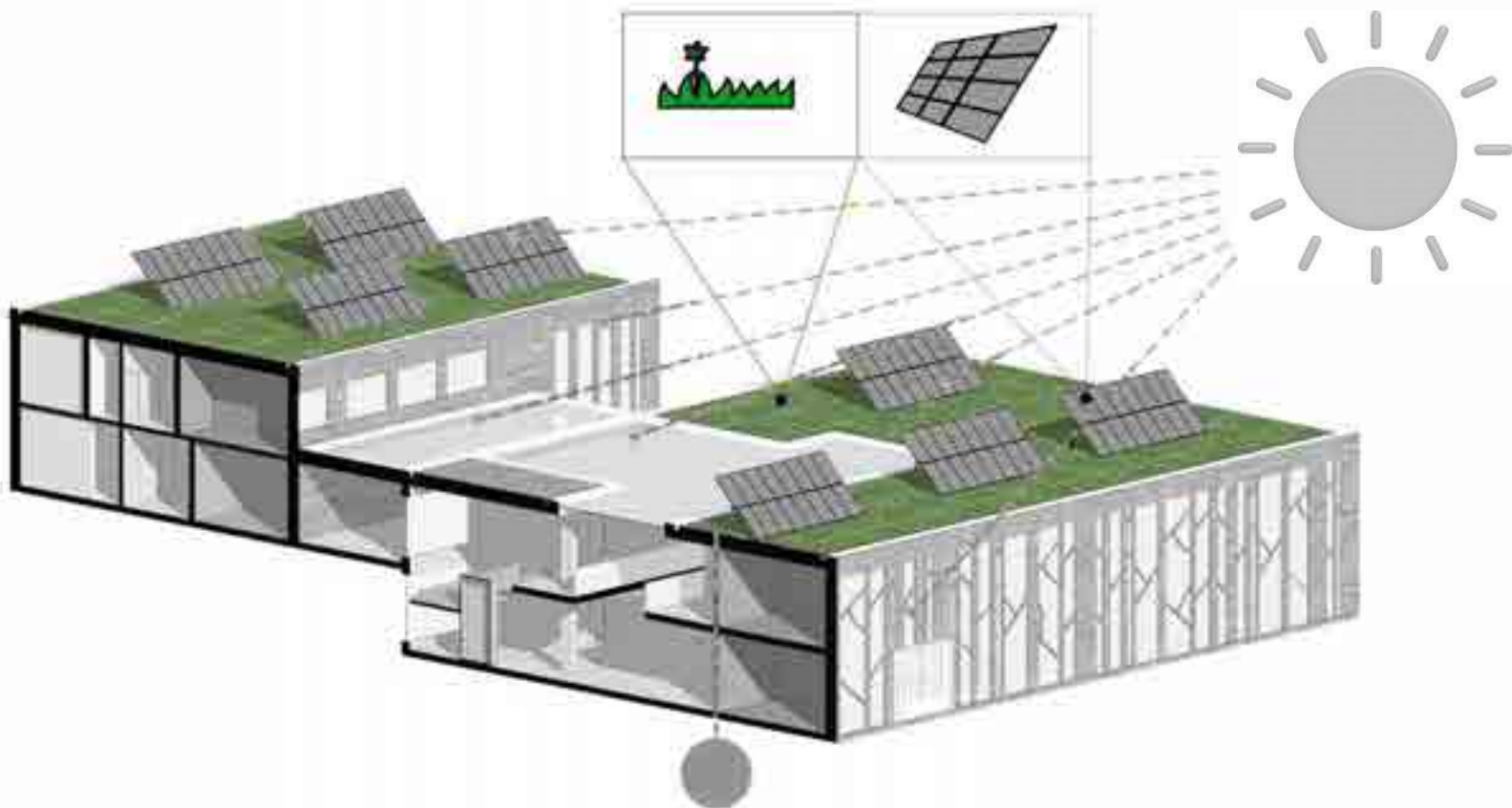
3D section



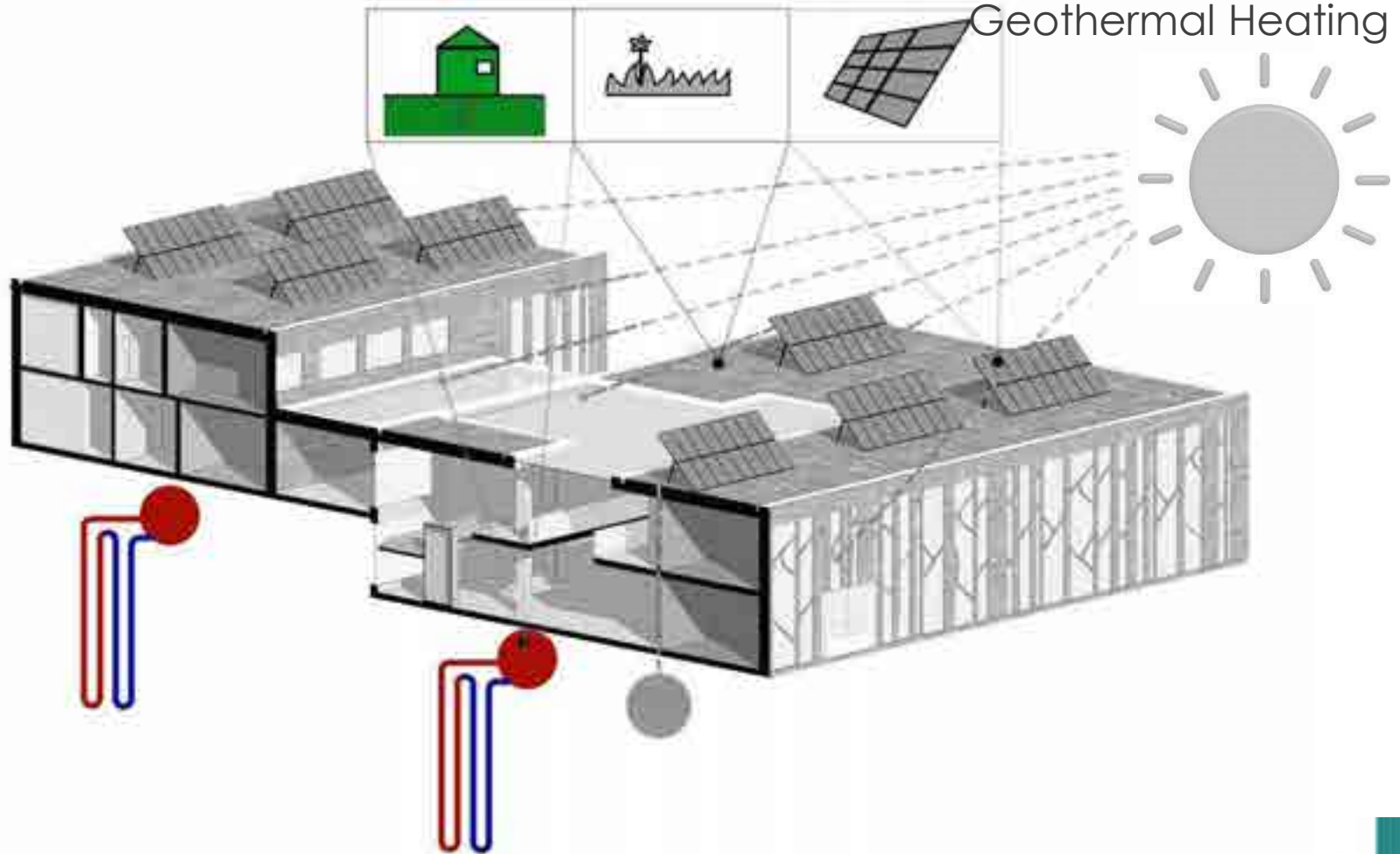
Solar Panels

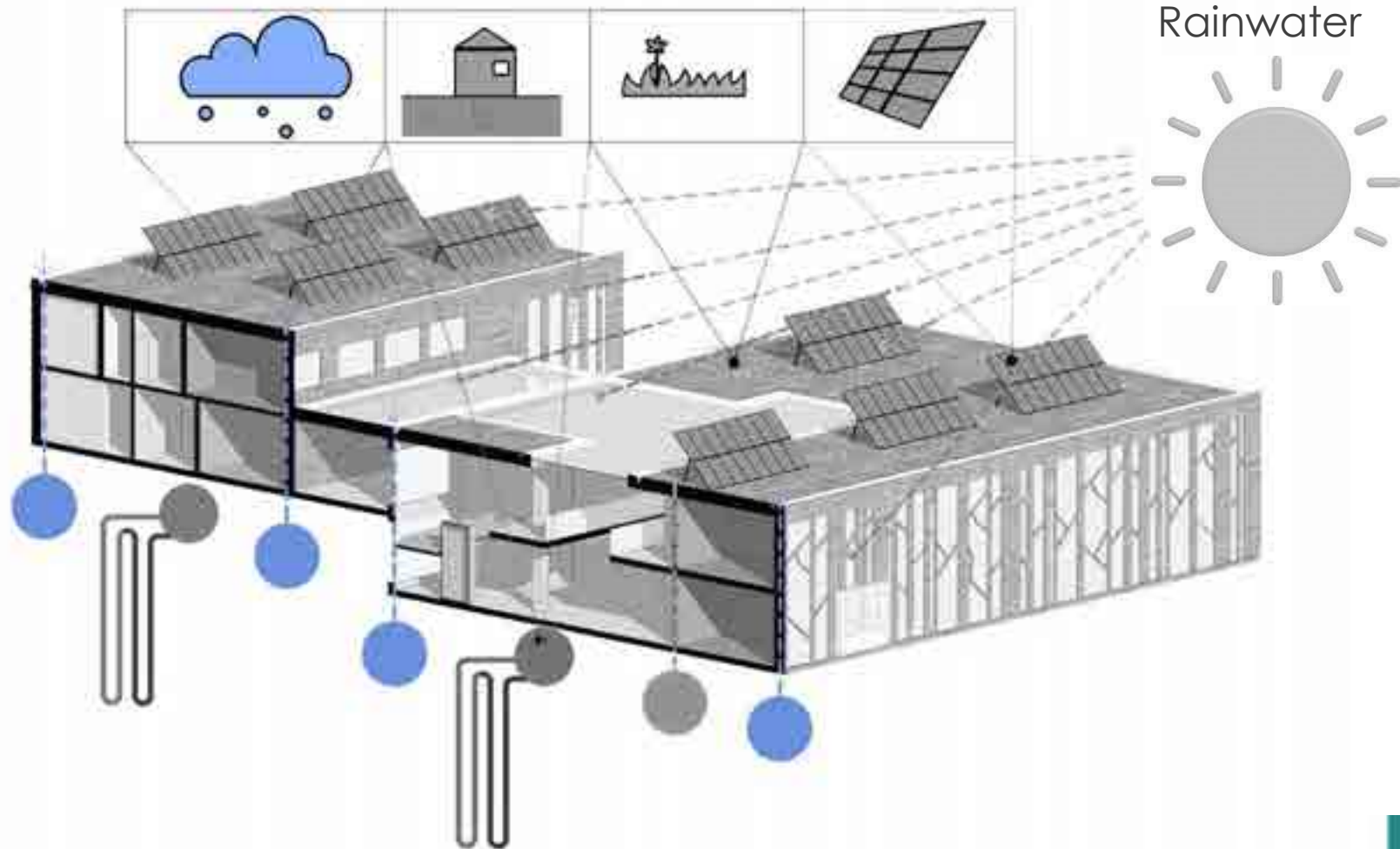


Green Roof

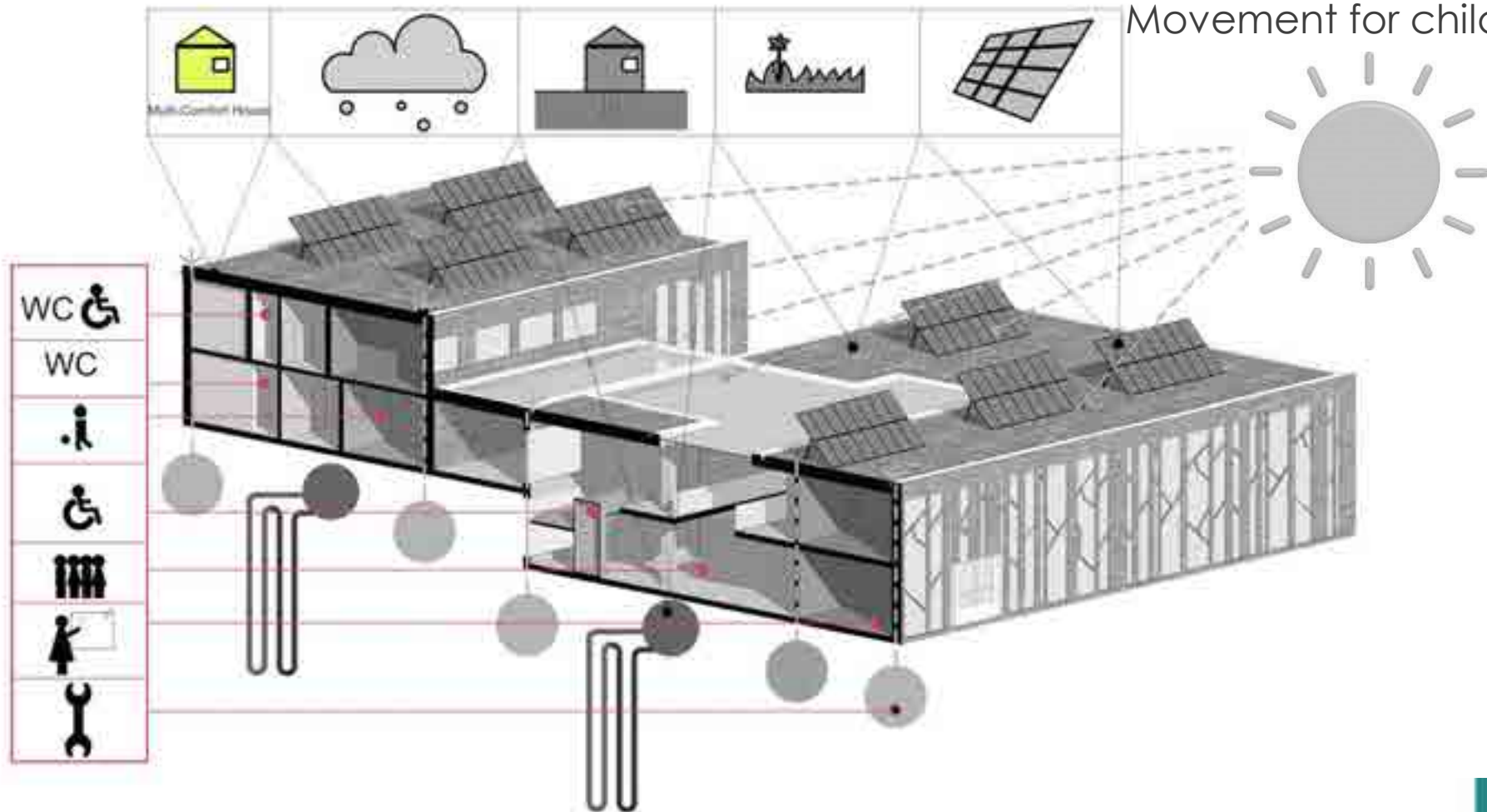


Geothermal Heating





Movement for children













8.30 a.m.

This architectural rendering shows a large, multi-story building complex with a central courtyard. The scene is captured from an elevated perspective. The lighting is soft, indicating early morning. The building has a modern design with flat roofs and large windows. The surrounding area includes parking lots, walkways, and some landscaping. The overall tone is calm and quiet.

Autumn



2.20 p.m.

This architectural rendering shows the same building complex as the top image, but at a later time of day. The lighting is brighter, indicating midday. The shadows are more pronounced, and the overall scene is more active. The building's design and surrounding area are consistent with the top image. The scene is captured from the same elevated perspective.

Average
temperature
+16,2 C





8.30 a.m.

Winter



2.20 p.m.

Average
temperature
+4,2 C





8.30 a.m.

This architectural rendering shows a large, multi-story building complex with a central courtyard. The scene is captured from an elevated perspective. At 8.30 a.m., the sun is low in the sky, creating long, dark shadows that stretch across the courtyard and the surrounding area. The building's facade is light-colored, and the courtyard is filled with various structures, including smaller buildings and what appear to be parking areas or walkways. The overall atmosphere is quiet and early in the day.

Spring



2.20 p.m.

This architectural rendering shows the same building complex as the top image, but at 2.20 p.m. The sun is higher in the sky, and the shadows are significantly shorter and less pronounced. The building's facade is more clearly visible, and the courtyard appears more open. The overall atmosphere is bright and active, typical of the middle of the day in spring.

Average
temperature
+13,4 C





8.30 a.m.

Summer



2.20 p.m.

Average
temperature
+25,8 C



General view



Children's activity



Playground



Playground





Sport playground



Night view



General view



Thank you for your
attention!

