

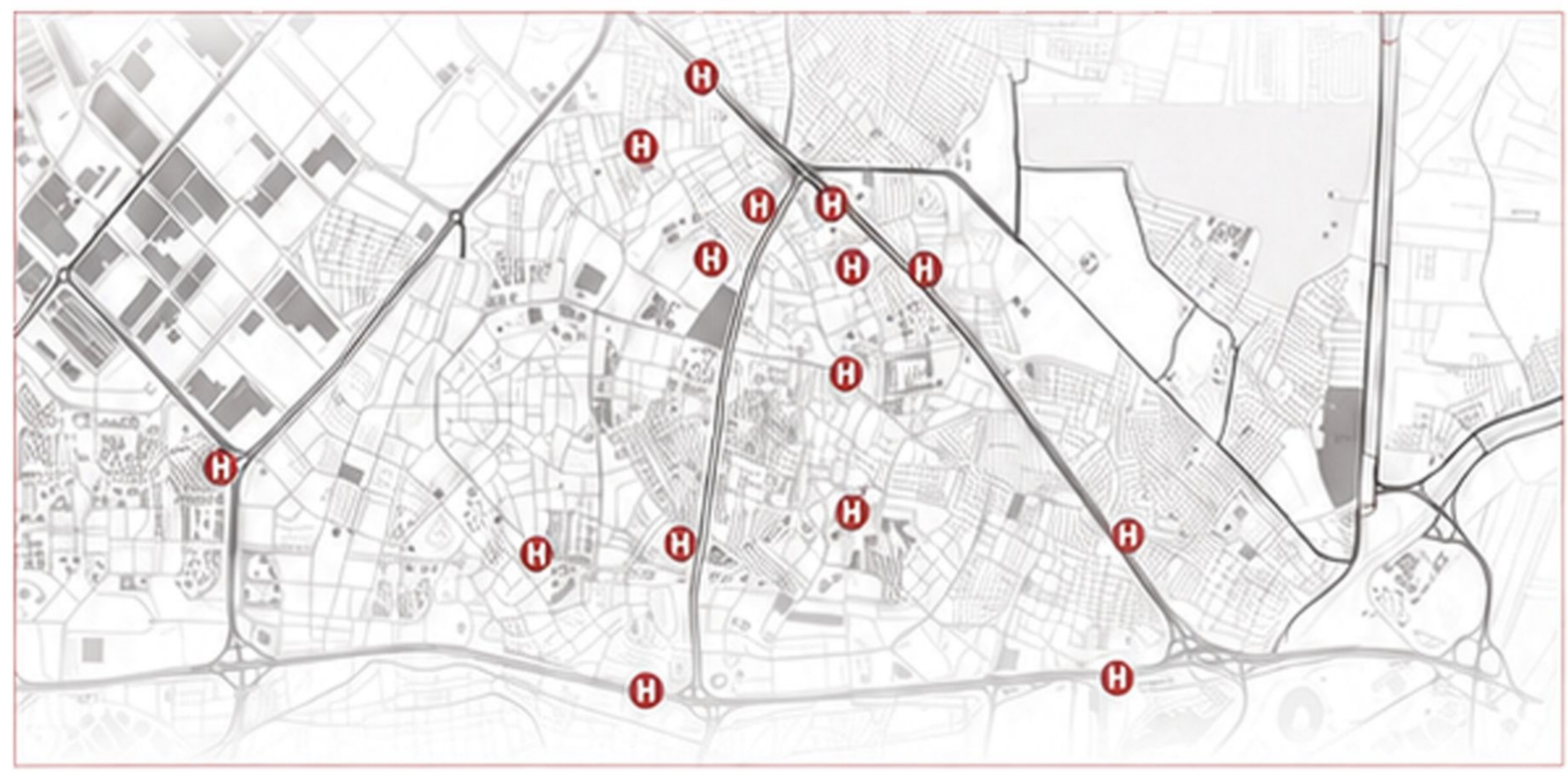
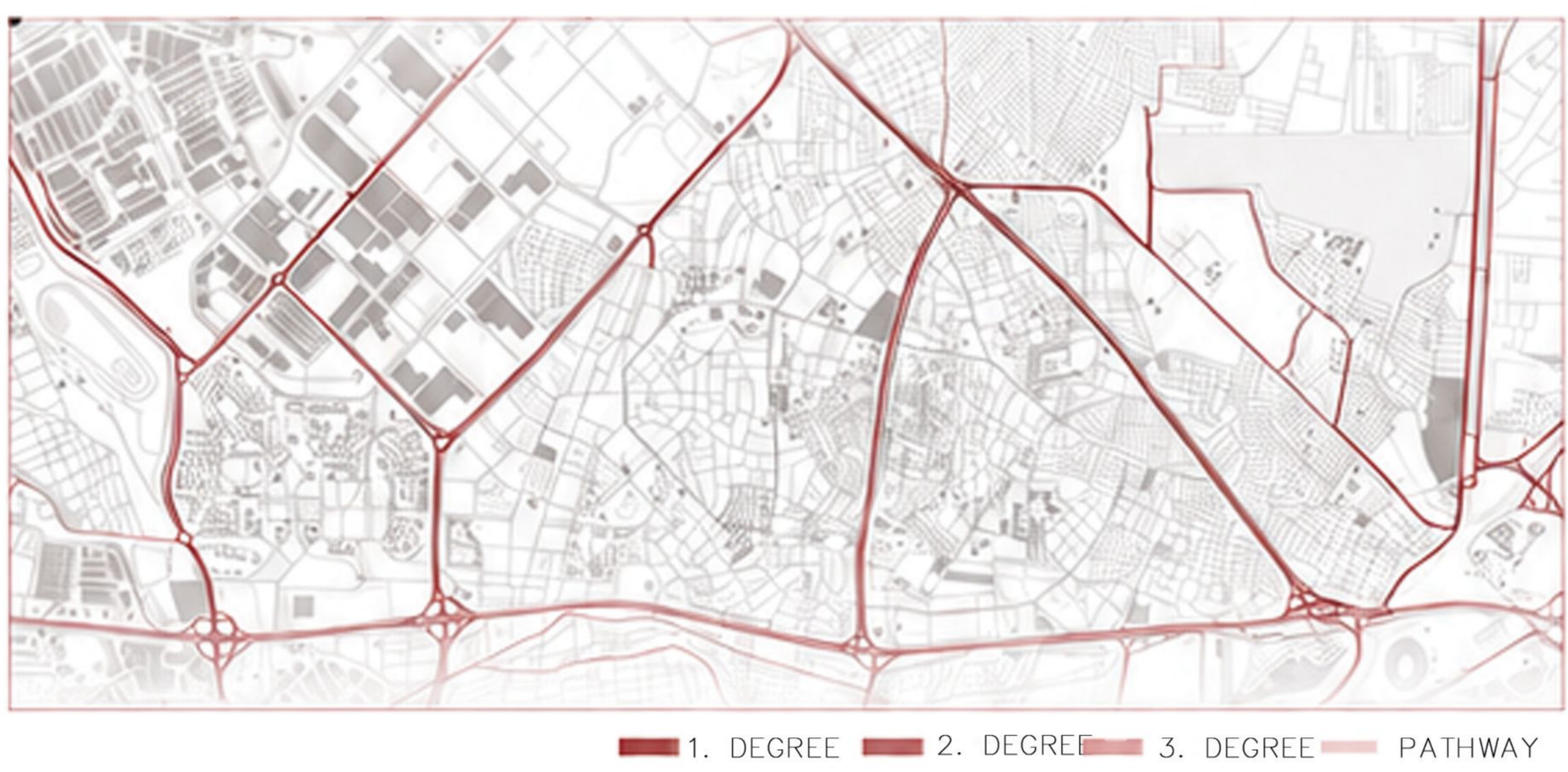
RELIEFFOLD

SITE ANALYSIS BOARD



SITE AREA
22063 M2

TRANSPORTATION AND ACCESSIBILITY ANALYSIS



Nearest bus stops: approx. 150 300 m / 2 4 min walking

Ba larba i Esentepe Metro Station: approx. 350 700 m / 5 10 min walking



The site is located within the residential fabric of FSM, surrounded by housing areas within walking distance. This close relationship supports daily public use and allows the area to function as a neighborhood-scale gathering and temporary shelter point after a disaster.



Nearest healthcare facilities: approx. 300 600 m / 4 8 min walking
NEV FSM Hospital: approx. 500 800 m / 6 10 min walking
Acibadem Bursa Hospital: approx.

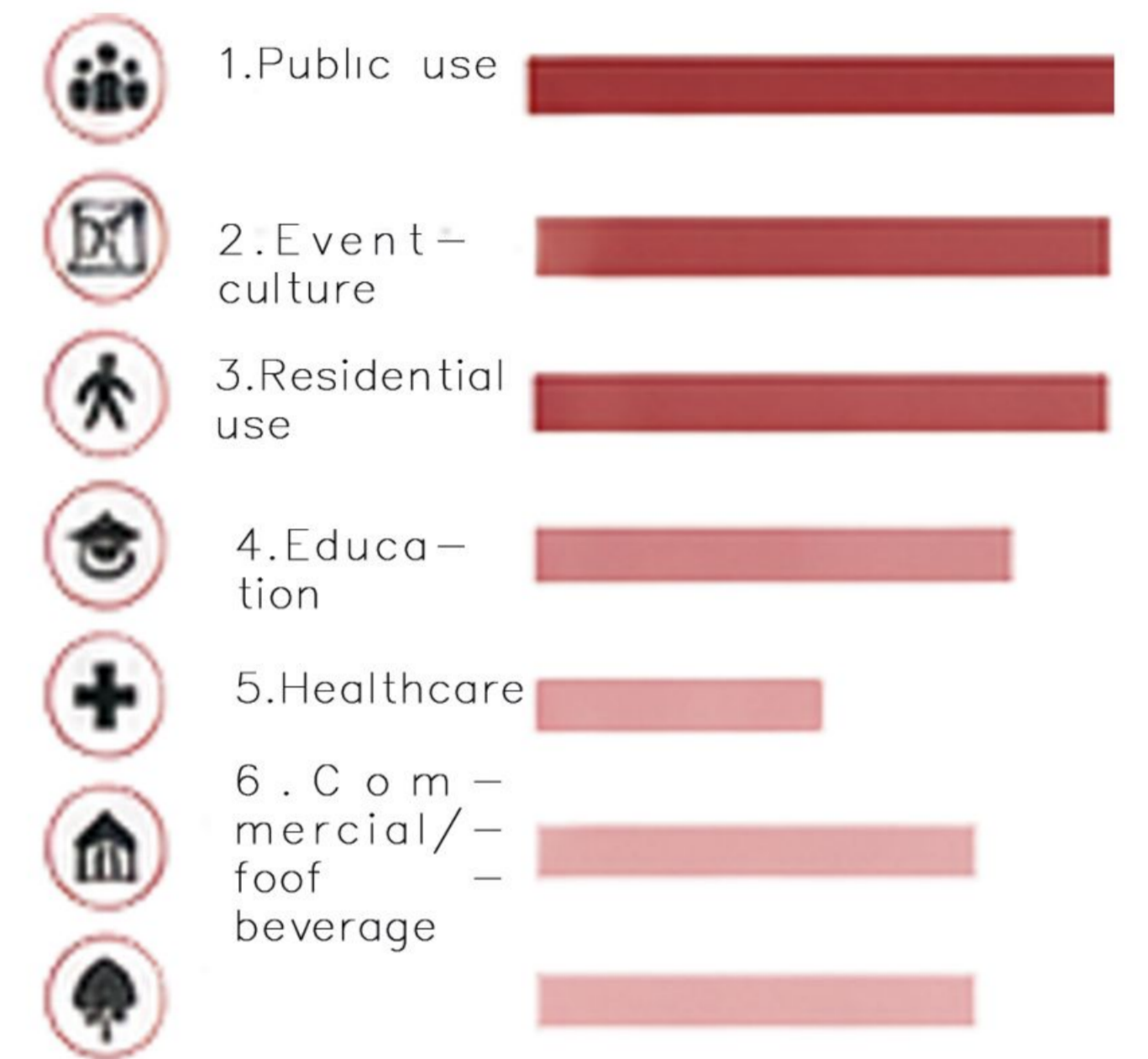
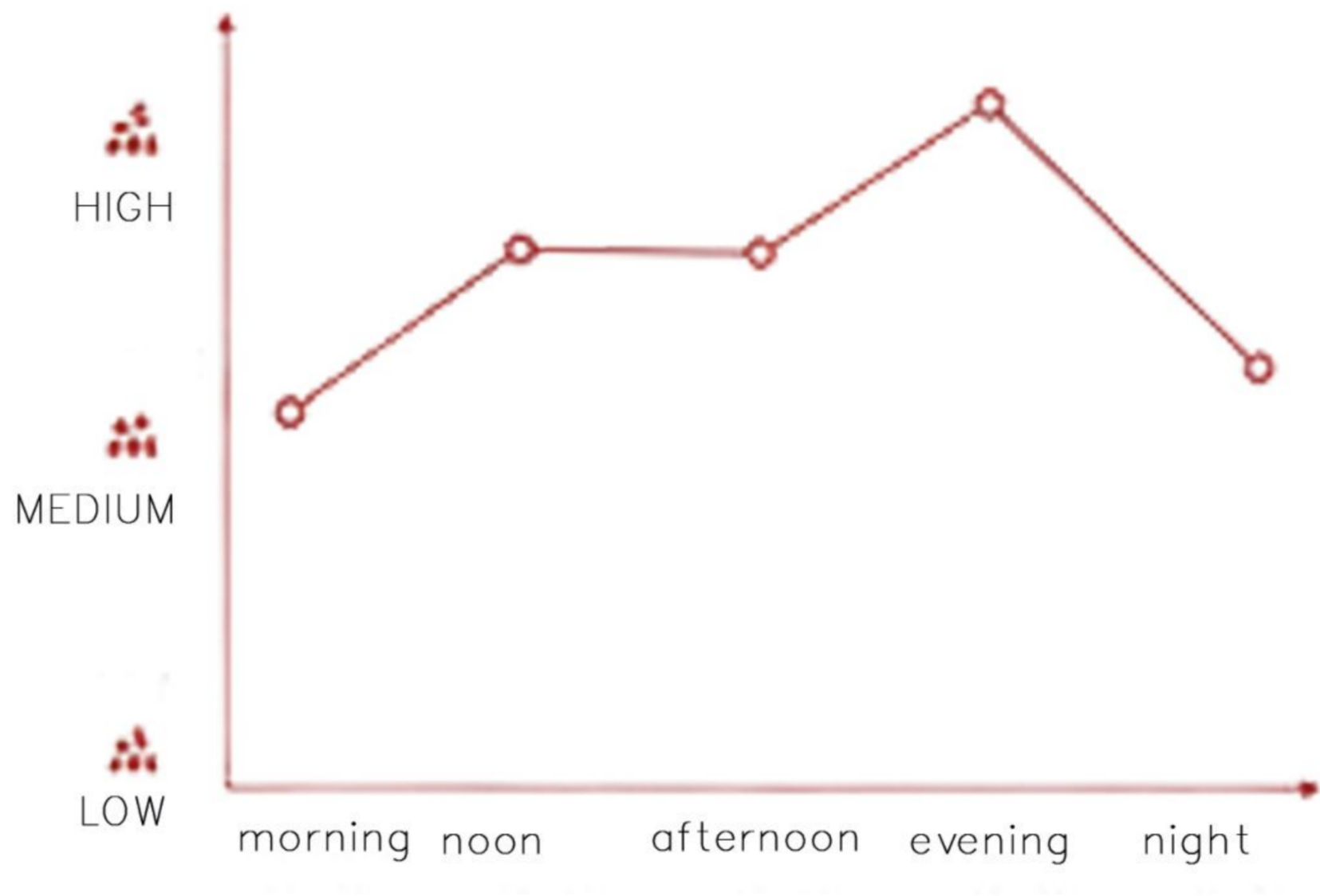
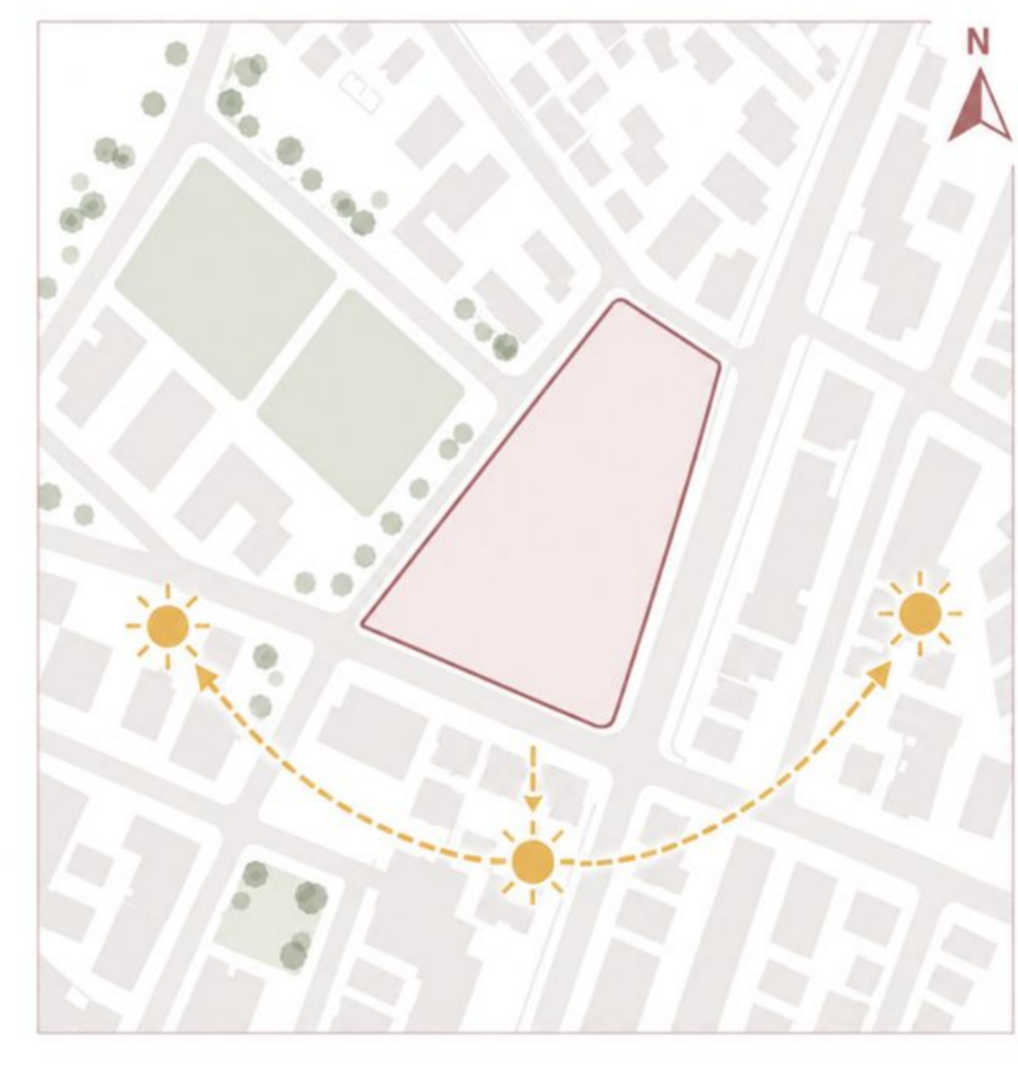
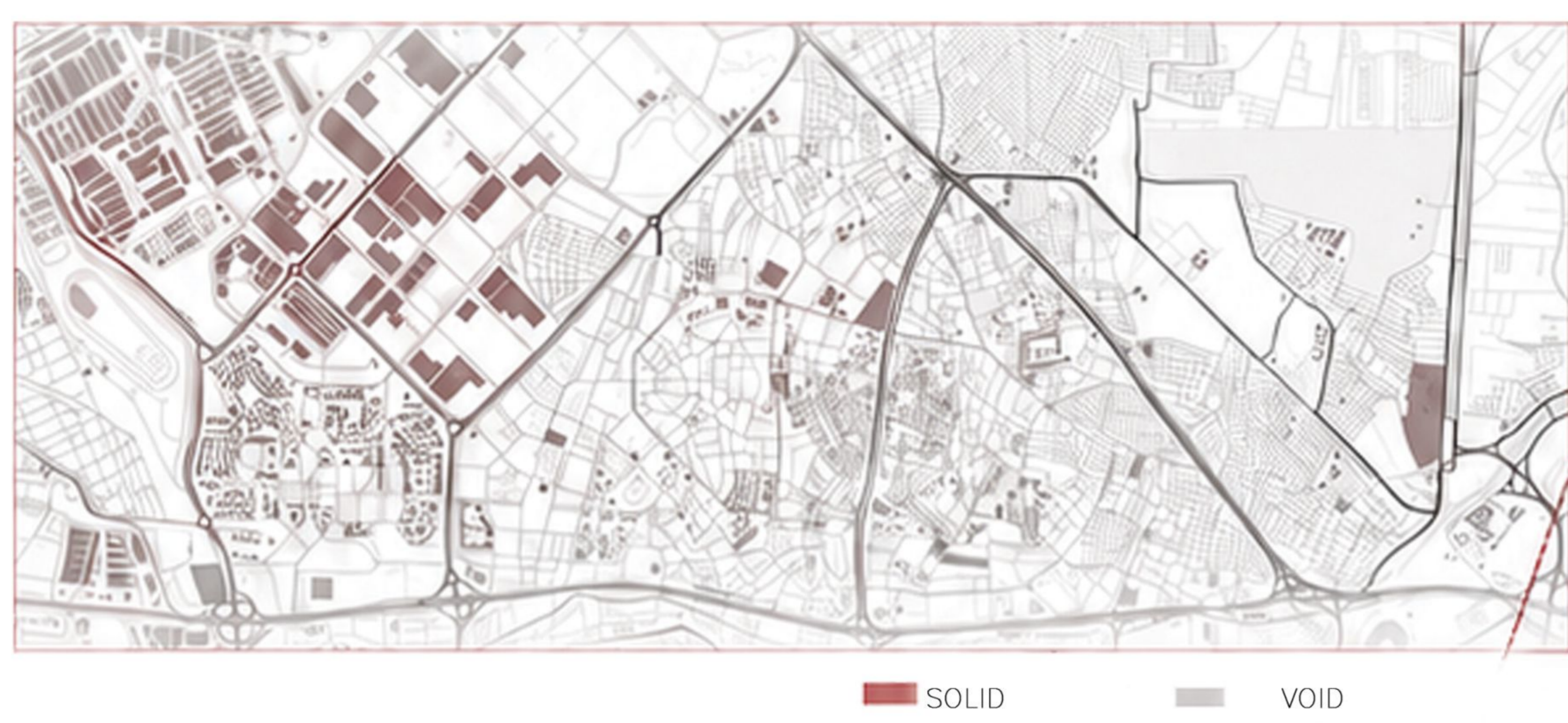


FIGURE-GROUND ANALYSIS

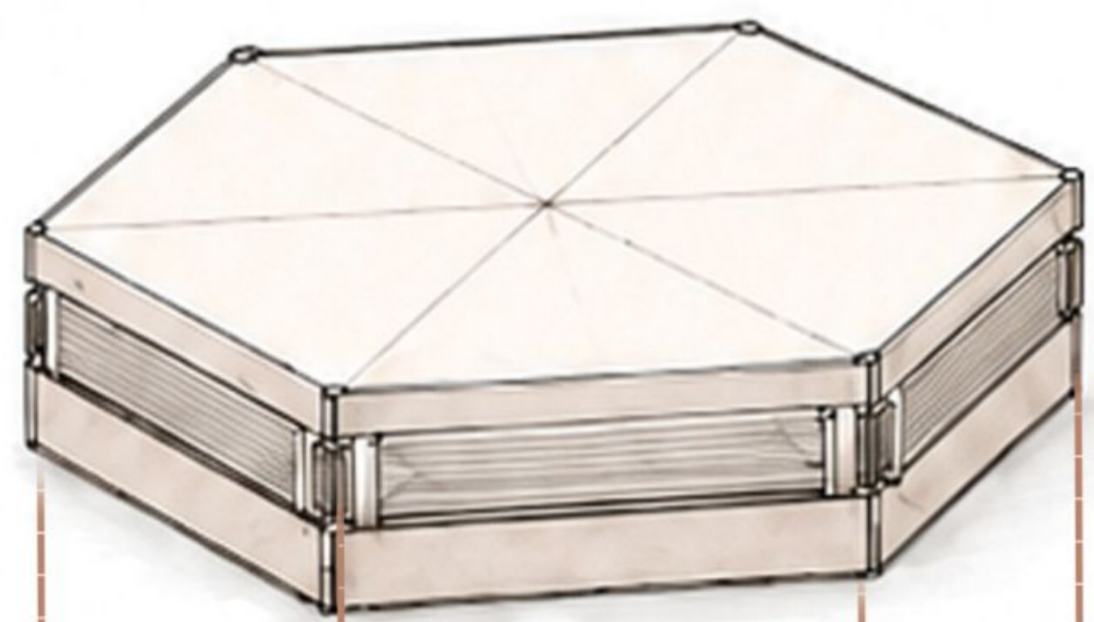




RELIEFFOLD TRANSFORMABLE EMERGENCY PAVILION

RELIEFFOLD is a flexible public system used in everyday life as a shading structure, event space, and platform; in times of disaster, it closes and transforms into an aid and shelter unit. Thanks to its octagonal modular form, it can be multiplied within the urban fabric, adapted to different functions, and support rapid organization after a disaster. Inspired by the logic of origami, the foldable membrane system allows the structure to respond to both open and enclosed usage scenarios. In this way, the design supports social life before a disaster while creating a spatial infrastructure for solidarity, safety, and rapid response after a disaster.

FORMATION DIAGRAM



CLOSED PLATFORM

The system remains compact and integrated within the platform during daily use.



ROTATIONAL OPENING

The hidden membrane begins to rotate and unfold from the structural frame.



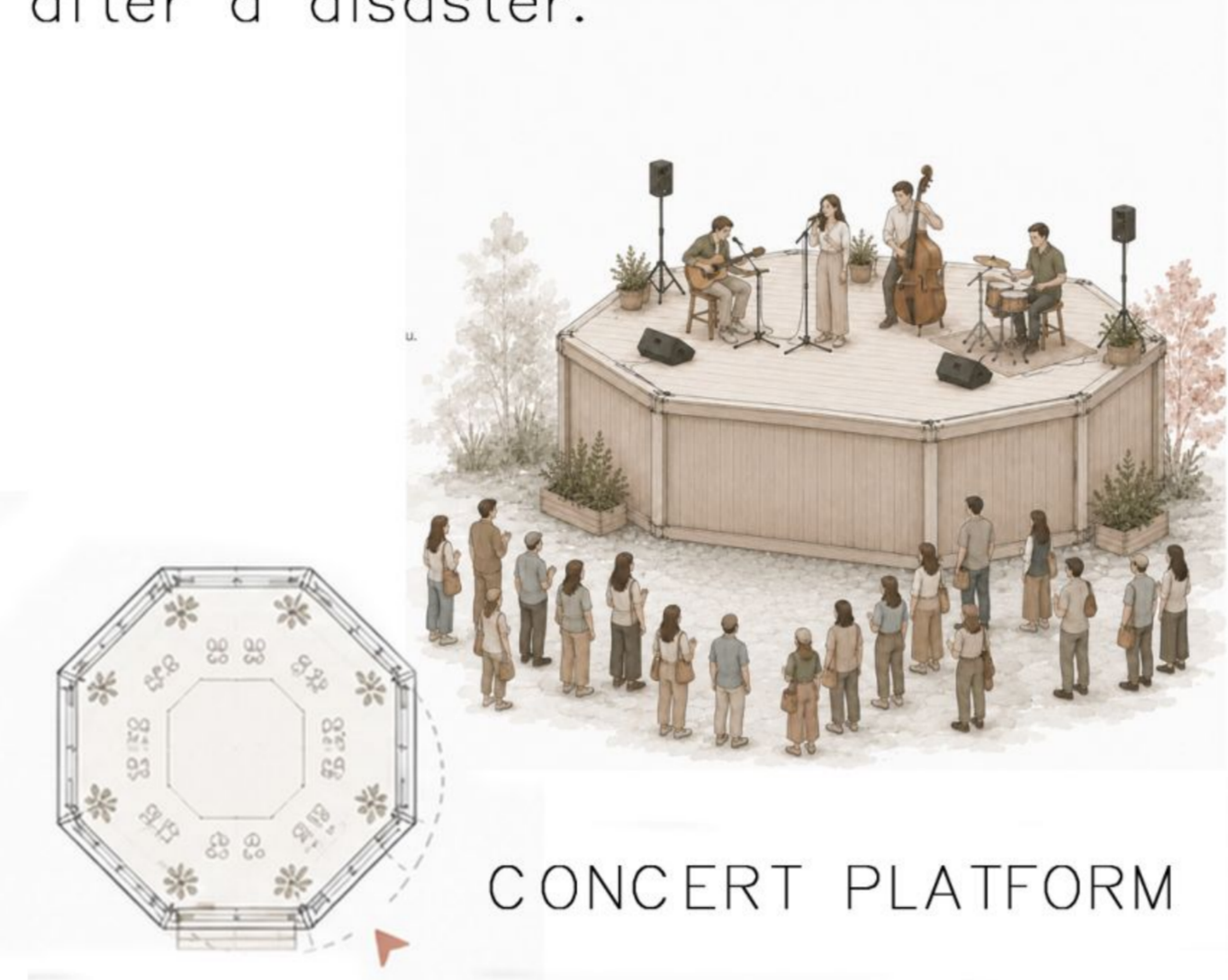
SPATIAL ENCLOSURE

The folding surfaces define the interior volume and create a protected space.

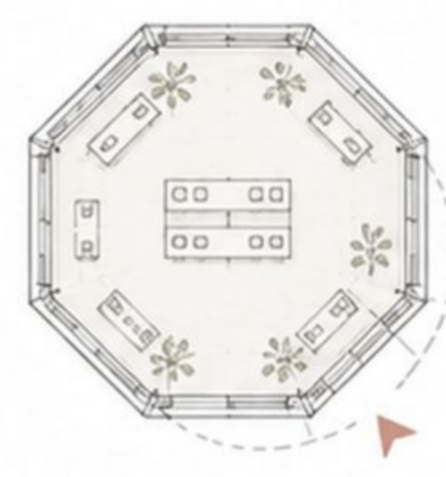


AID UNIT

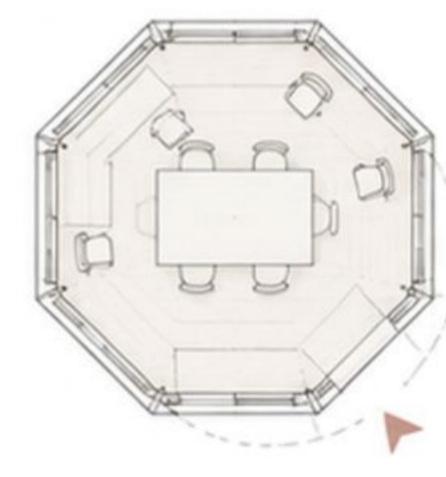
The module becomes an enclosed shelter for support, care, and emergency response.



CONCERT PLATFORM



MARKET / WORKSHOP UNIT



SOCIAL SPACE



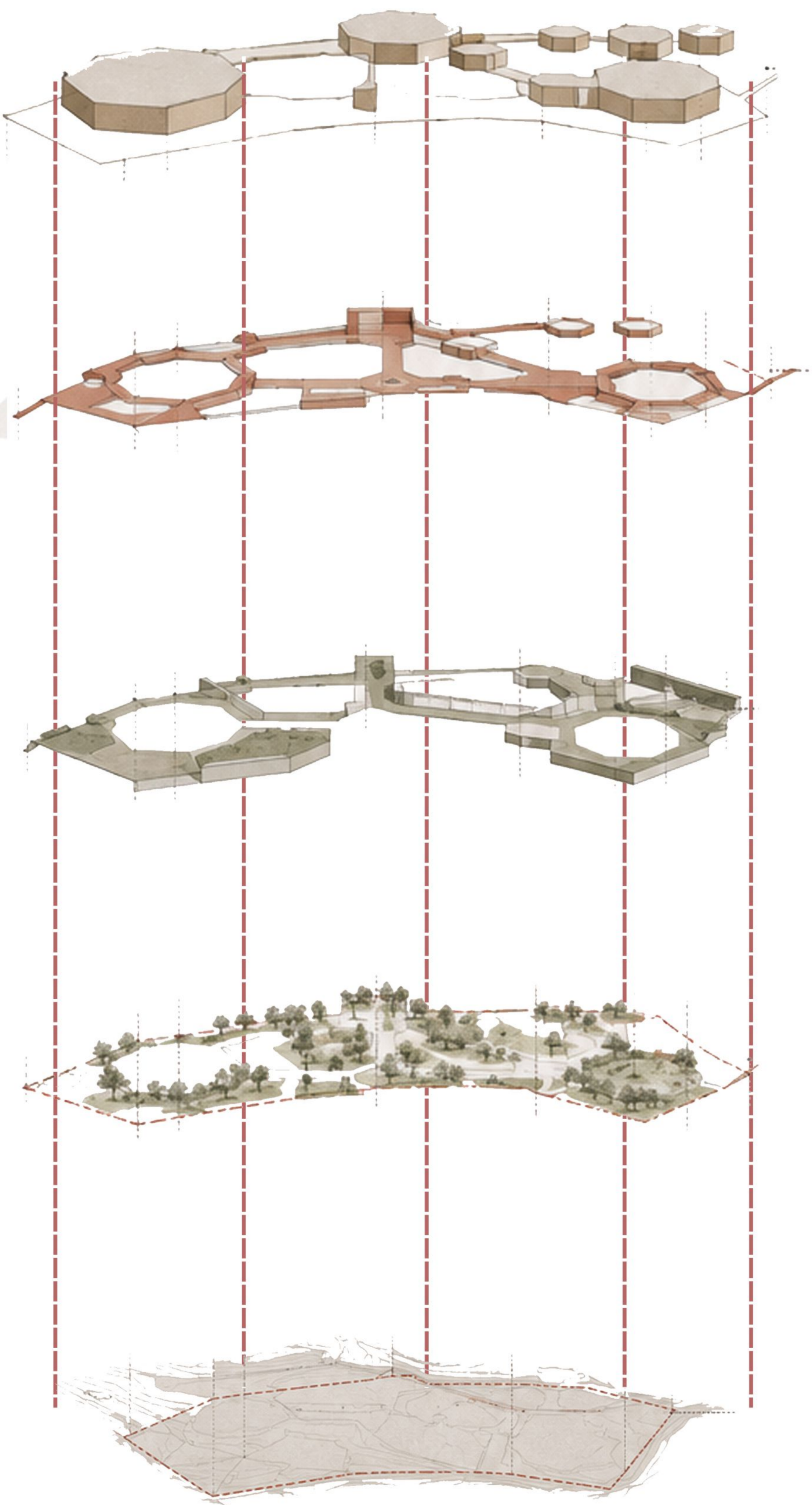
GATHERING SPACE





RELIEFFOLD TRANSFORMABLE EMERGENCY PAVILION

FORMATION DIAGRAM



MASSES

The main platform and octagonal masses are positioned along the spine.

CIRCULATION

The spine provides uninterrupted pedestrian circulation between the plaza and the masses.

PLATFORM

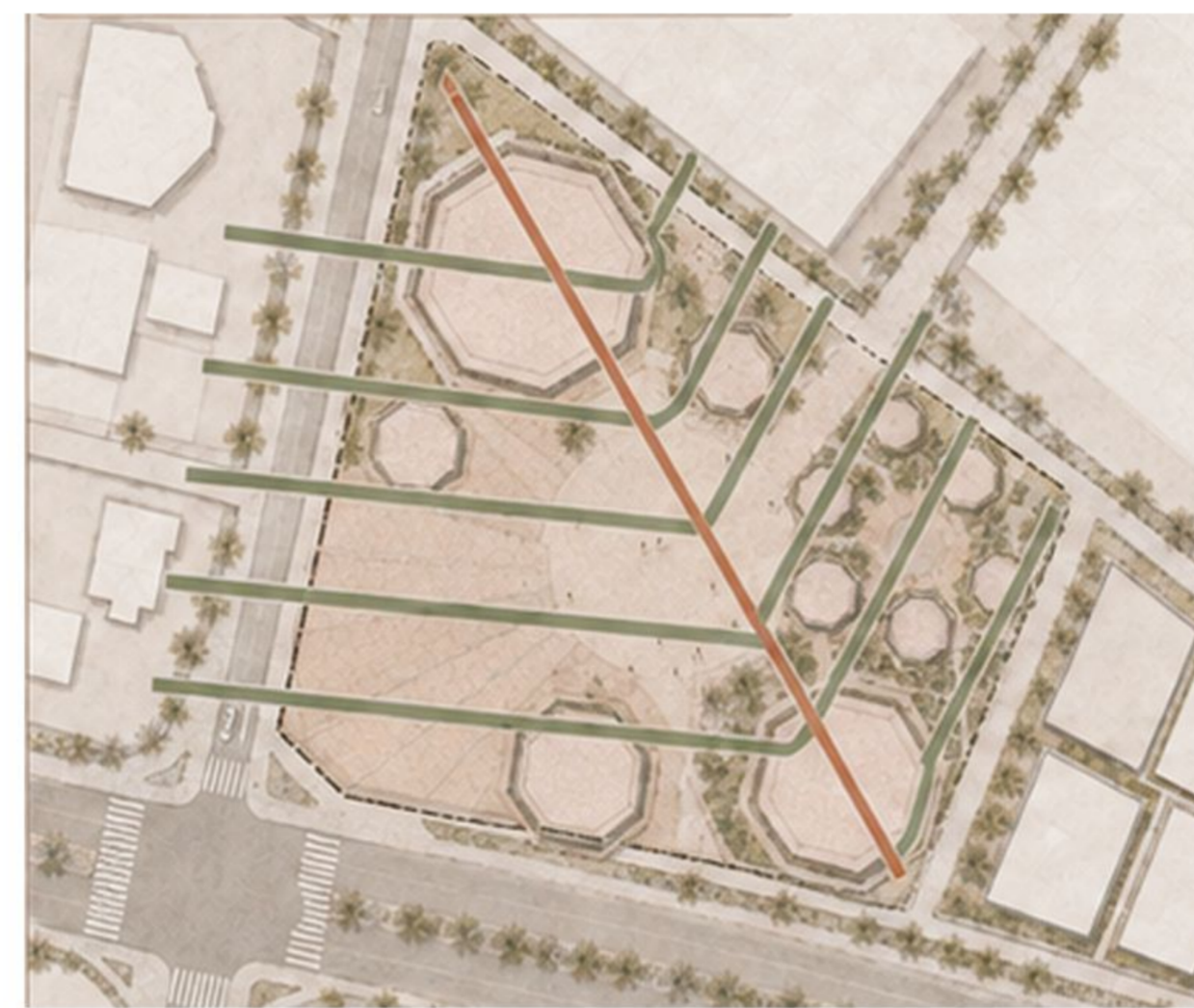
Level differences are resolved through platforms, allowing the site slope to become part of the design strategy.

GREEN TEXTURE

The existing natural texture is preserved and integrated with the new landscape.

TERRAIN

Existing site structure and boundaries.



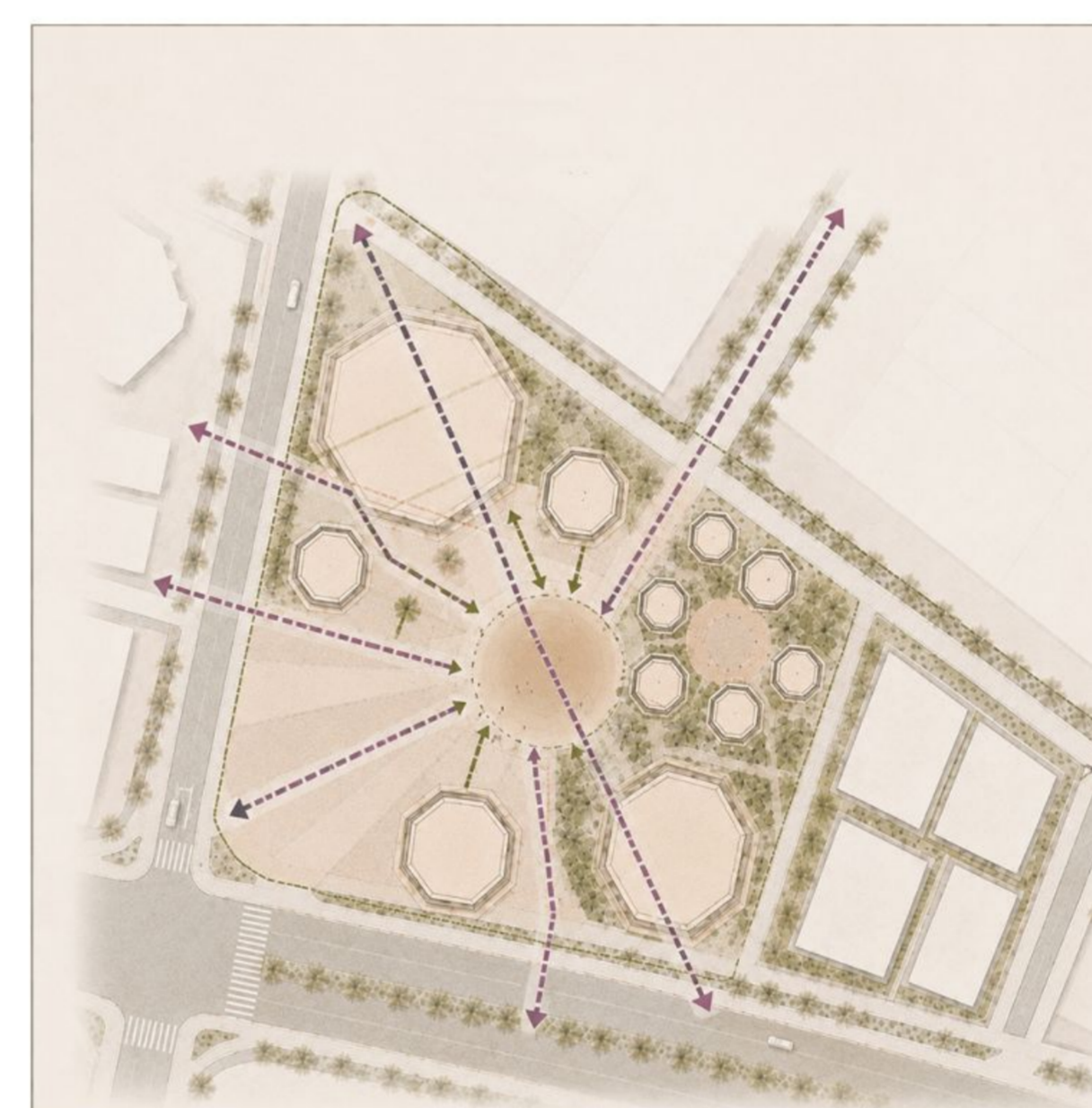
Road Axes and Spine Formation

The road axes are offset parallel within the site, and the main spine is generated through the intersection of these lines. This spine is designed as the primary circulation line connecting the plaza, platforms, and octagonal units.



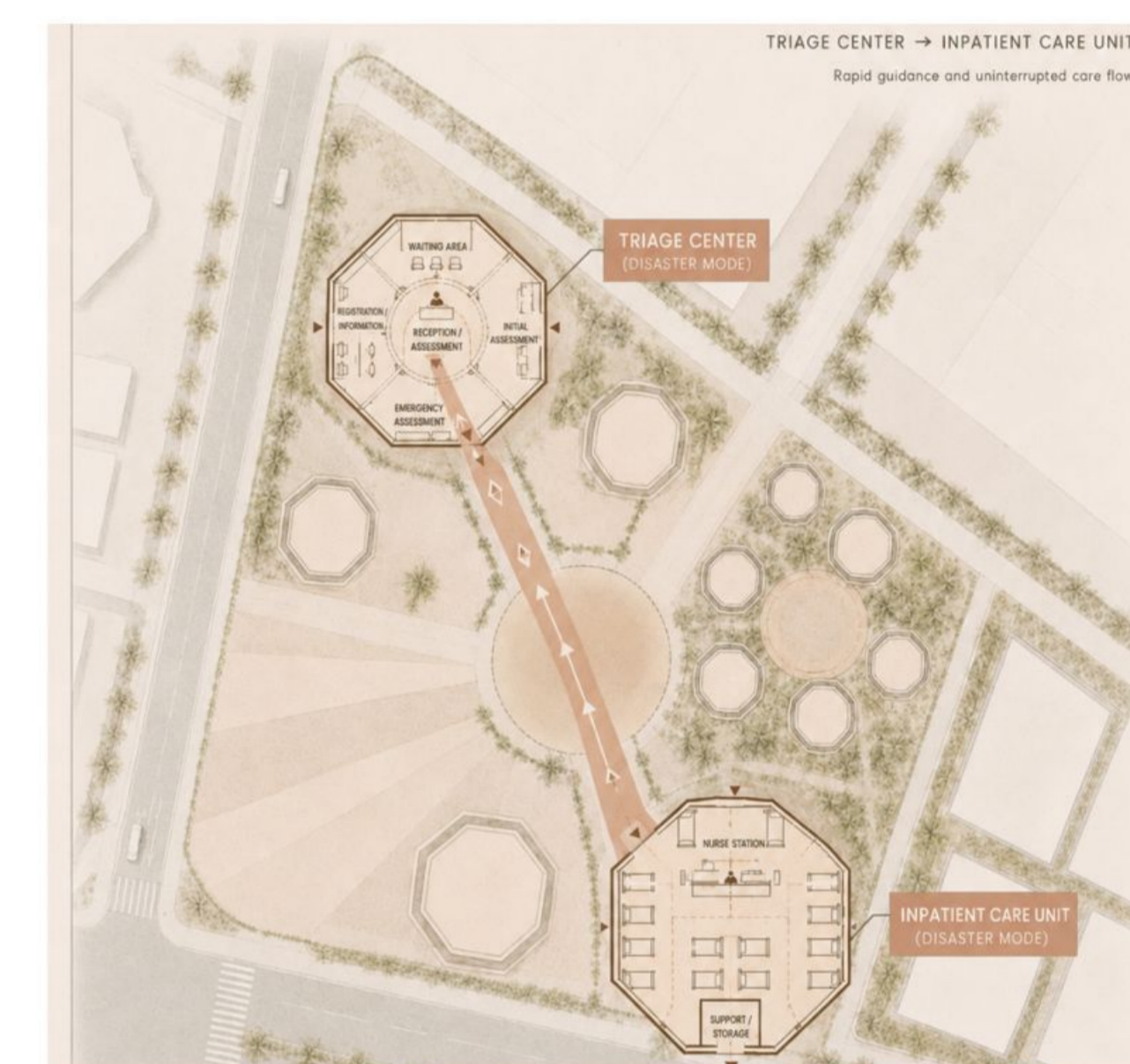
Gathering Toward the Focal Point

Pedestrian movements from the surrounding entrances are directed toward the central plaza through the spine. The plaza is designed as the main focal point where users gather, wait, and disperse toward different units.



Distribution Circulation from the Plaza

The central plaza acts as the main distribution point, directing users from the spine to the octagonal units, platforms, and, in disaster mode, to the triage and inpatient care areas. It functions not only as a gathering space, but also as a center for orientation and organization.



Disaster Mode Organization

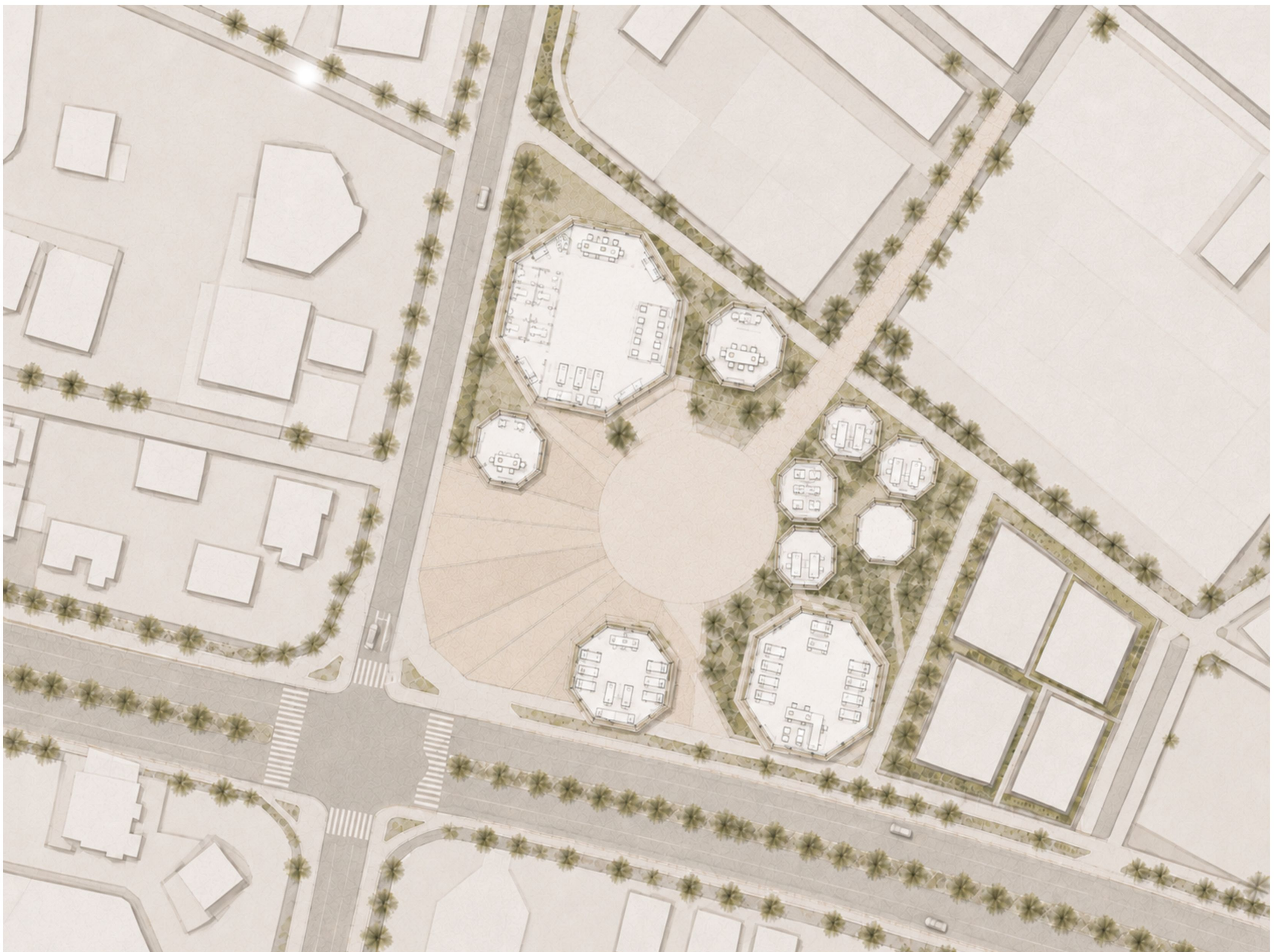
In disaster mode, the large octagonal unit on the upper-left functions as the triage center. It provides initial reception, registration, rapid assessment, and patient guidance. The lower octagonal unit is organized as an inpatient care area. Patient flow is transferred from the triage center to the inpatient unit through the main axis.



RELIEFFOLD



1/500 SITE PLAN

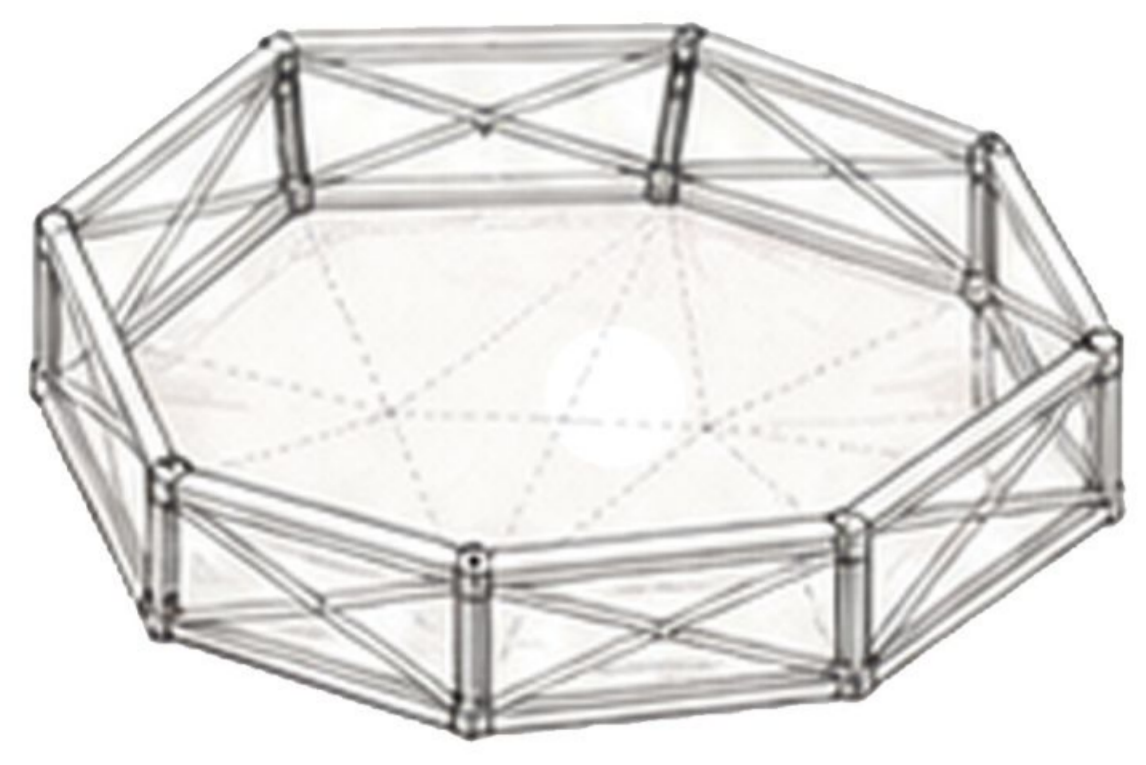


1/500 FLOOR PLAN

RELIEFFOLD

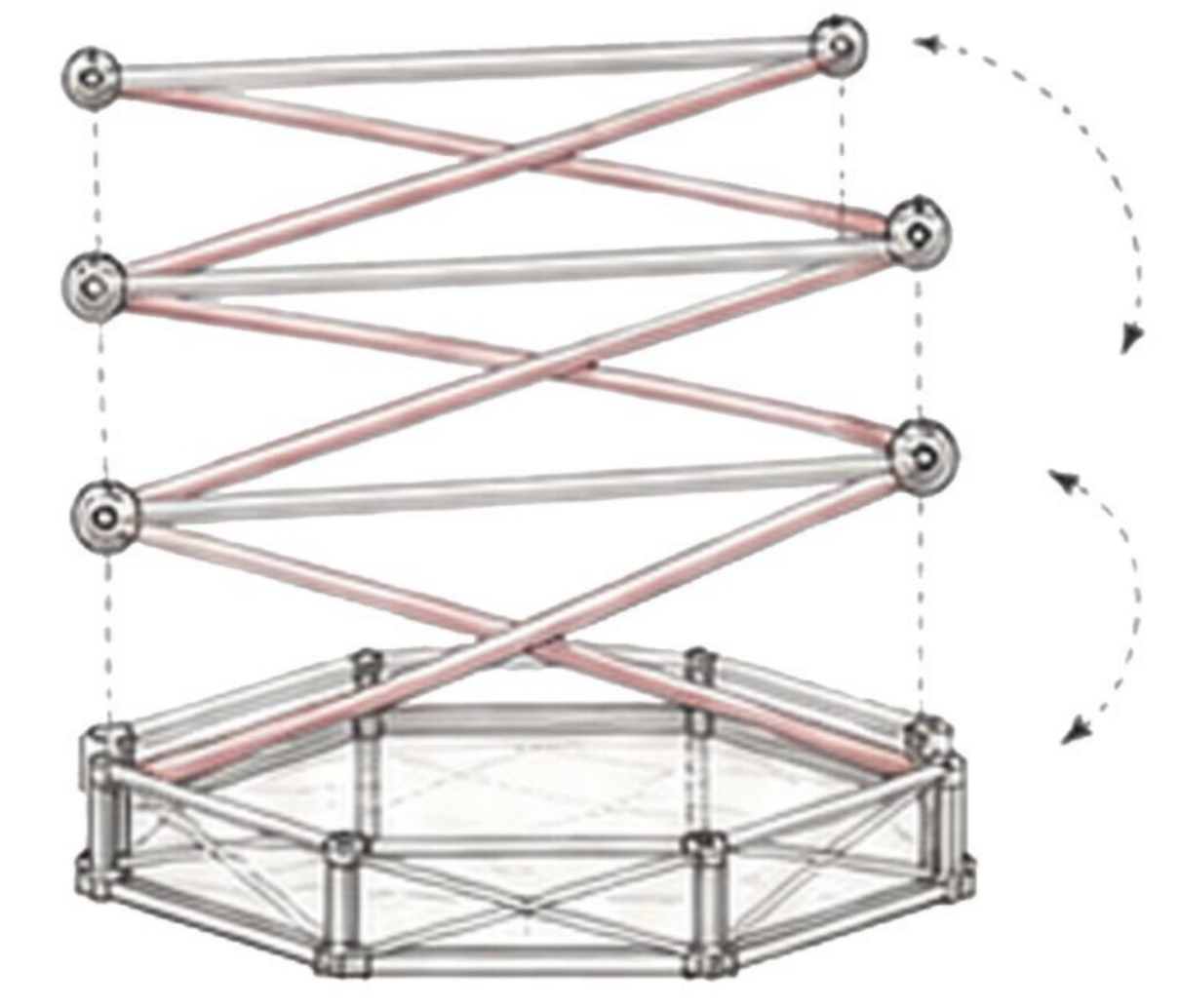
TECHNICAL DETAIL OF TRANSFORMABLE SHELTER SYSTEM

OCTAGONAL BASE PLATFORM



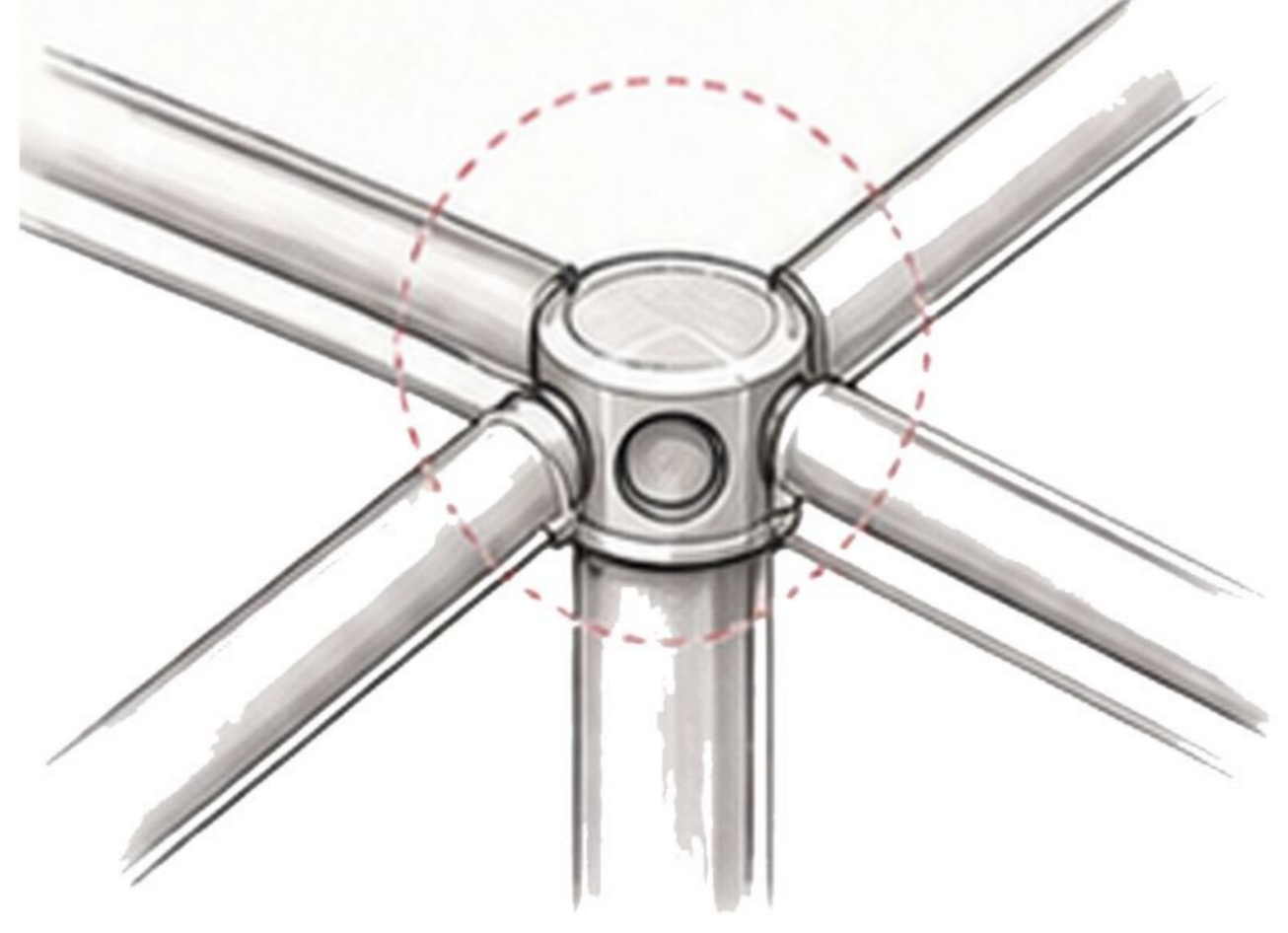
Lightweight octagonal base platform with triangulated bracing.

HINGED STRUCTURAL



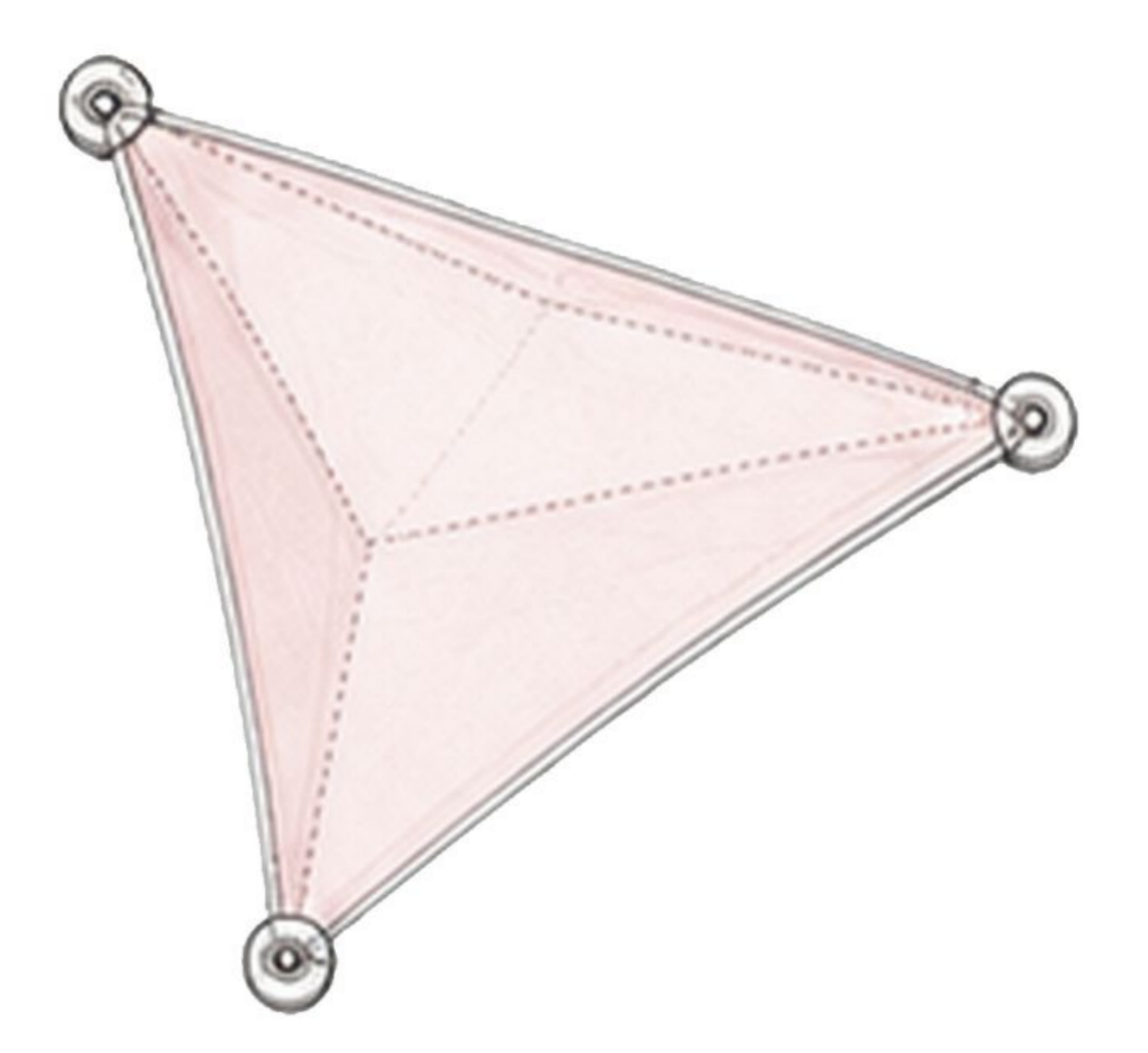
Hinged lightweight frame with triangular geometry for stability and deployability.

NODE POINT



Precision node with multi-directional connections for structural continuity.

TENSIONED FABRIC COVERING



PVC-coated polyester membrane tensioned over the frame.

LOAD TRANSFER



UPPER RING

The upper ring beam distributes loads from the membrane and frame elements along the perimeter.

MEMBRANE

External loads are captured by the tensioned fabric.

RING BEAM

Loads are transferred to the ring beam through perimeter connections.

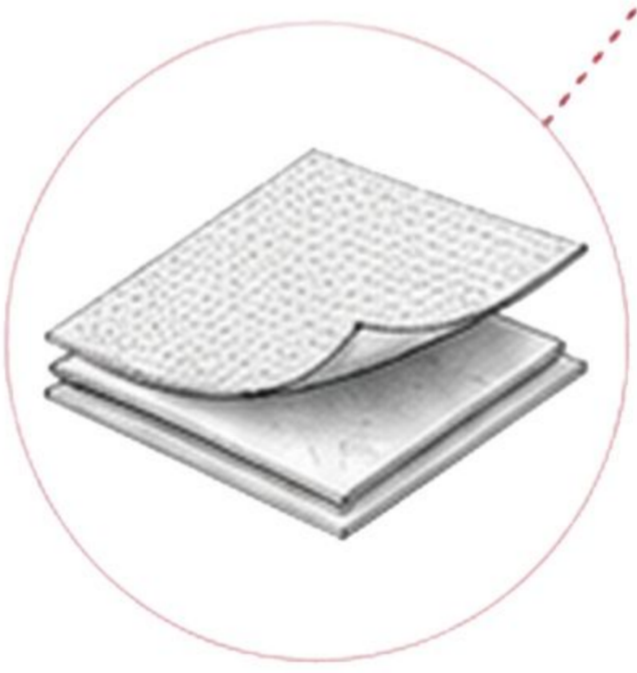
COLUMN

Vertical loads are carried by the column to the base.

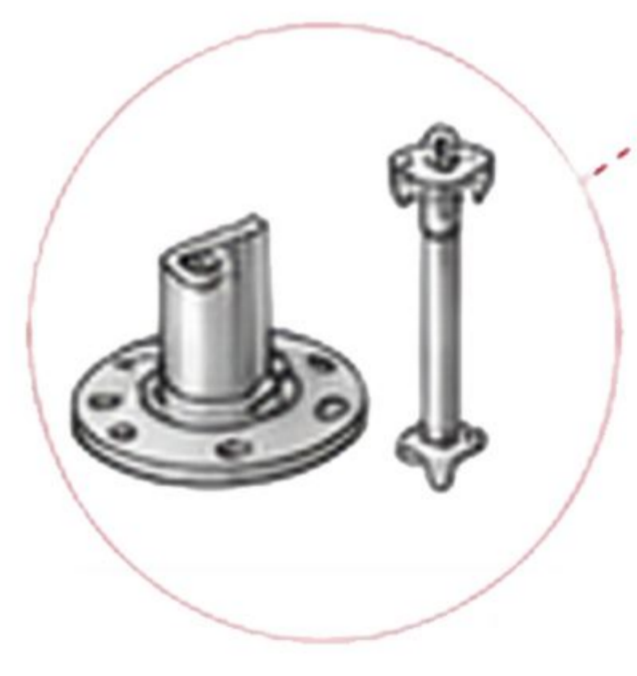
ANCHOR

Loads are delivered to the foundation through the base anchor.

Structural frame
30-60 KG



Membrane covering
8-25 KG



Base ring and anchors
12-40 KG



SMALL MODULE	12-14 M2
MEDIUM MODULE	18-22 M2
STANDART MODULE	26-30 M2
LARGE MODULE	36-42 M2
EXTENDED MODULE	48-52 M2

