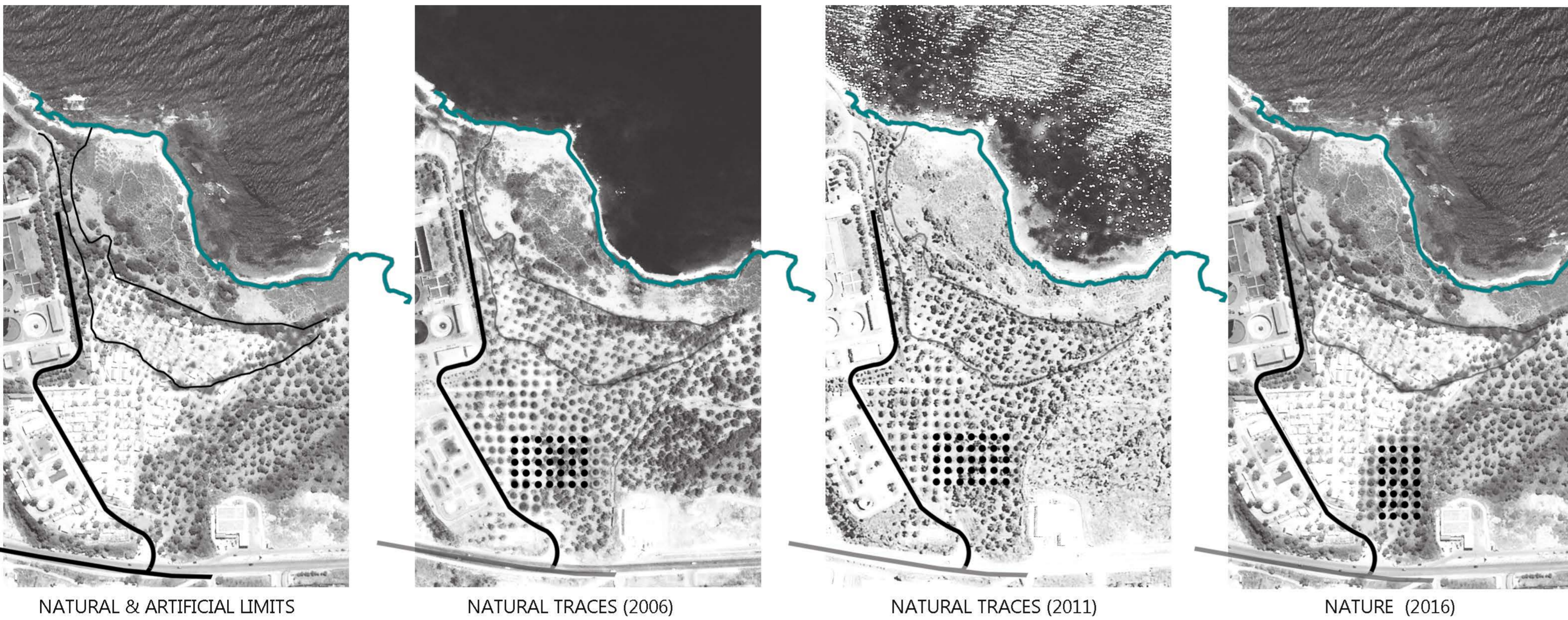


## SITE ANALYSIS AND TRACES



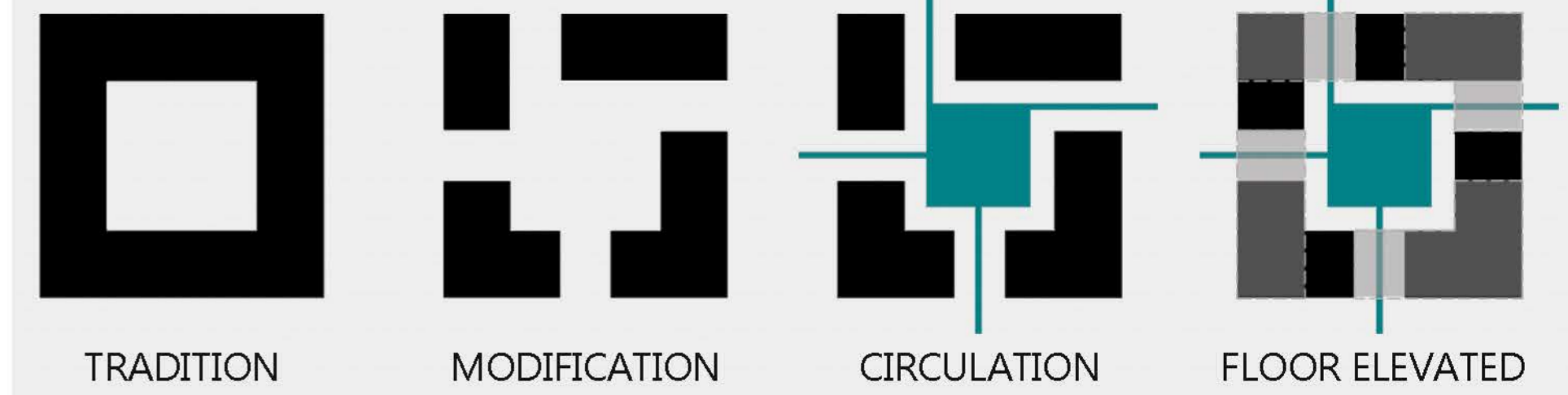
NATURAL & ARTIFICIAL LIMITS

NATURAL TRACES (2006)

NATURAL TRACES (2011)

NATURE (2016)

## INNER VOIDS



TRADITION

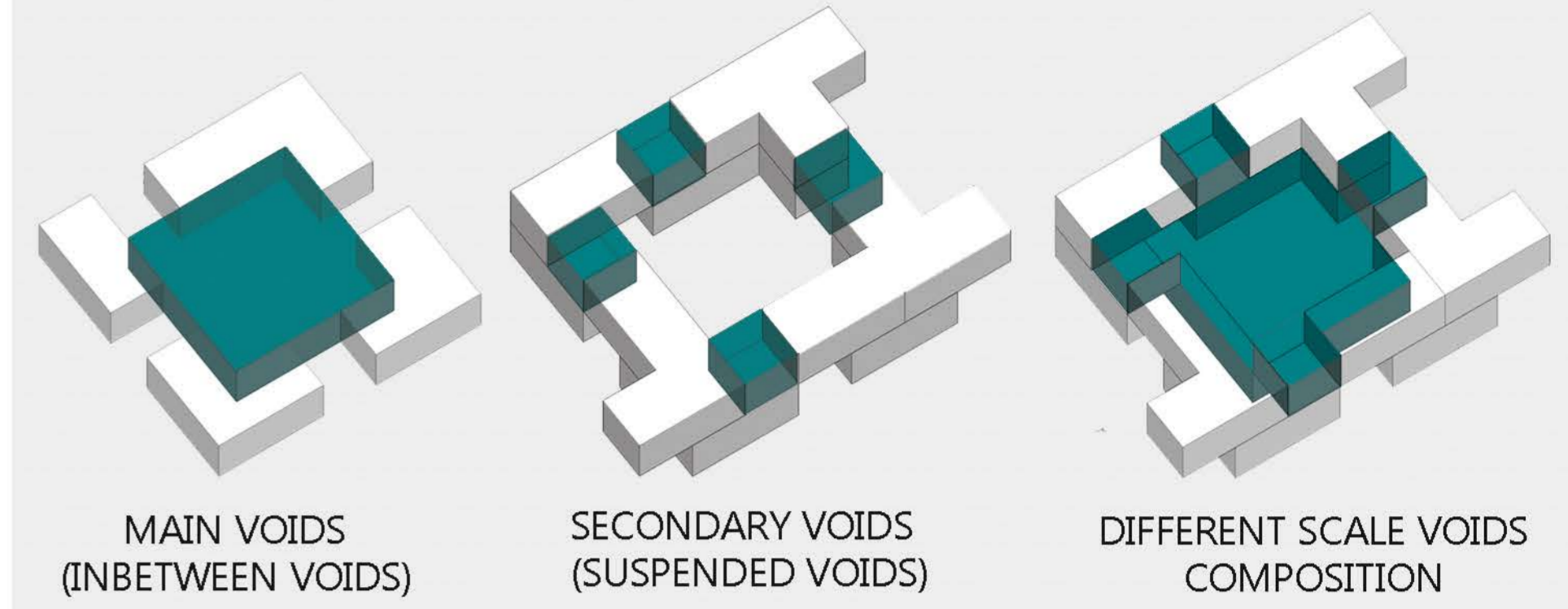
MODIFICATION

CIRCULATION

FLOOR ELEVATED

## HIERARCHY OF VOIDS

A grid of solids and voids consisted of a central courtyard together with a series of voids hollowed out from upper floor used as balconies creates a pleasant flow of open spaces with different levels of opacity, and allows airflow through the building.

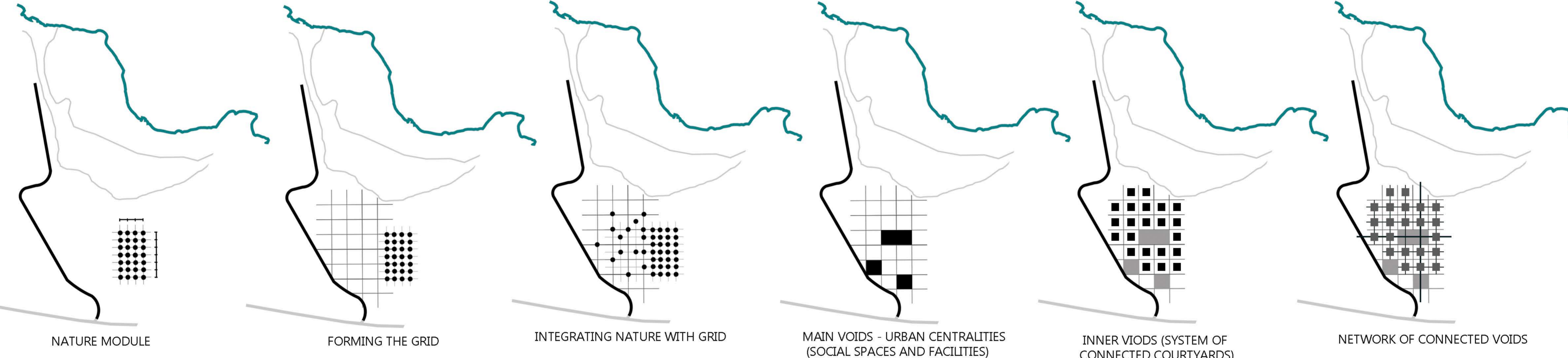


MAIN VOIDS (INBETWEEN VOIDS)

SECONDARY VOIDS (SUSPENDED VOIDS)

DIFFERENT SCALE VOIDS COMPOSITION

## STRATEGY



NATURE MODULE

FORMING THE GRID

INTEGRATING NATURE WITH GRID

MAIN VOIDS - URBAN CENTRALITIES (SOCIAL SPACES AND FACILITIES)

INNER VOIDS (SYSTEM OF CONNECTED COURTYARDS)

NETWORK OF CONNECTED VOIDS

## CONSTRUCTION TECHNIQUE



### LOCAL MATERIALS.

Stones /gravel are local affordable materials can be extracted easily from the site itself or not transported far away.



### UNIT COMPOSITION (STEEL FRAMES + MESH + STONES).

-The project proposes a modular steel structure consisted of steel frames and beams act to support the bearing load of the wall and roof.

-Mesh net placed around the steel structure act as a wall surface.

-Stones and gravels are inserted inbetween the two mesh surfaces consisting the wall.



### MODULAR PLAN.

The modulation of the composition makes an easier and faster implementation process, and gives a flexibility of future expansion according to the inhabitants needs.



### SEPARATED STRUCTURAL SYSTEM.

Same construction system but separated from eachother (ground and first floor), each floor structural system is dependant/ isolated from the other, the superposition of both typical dependant systems can be highly effective and opens prospects for growth.

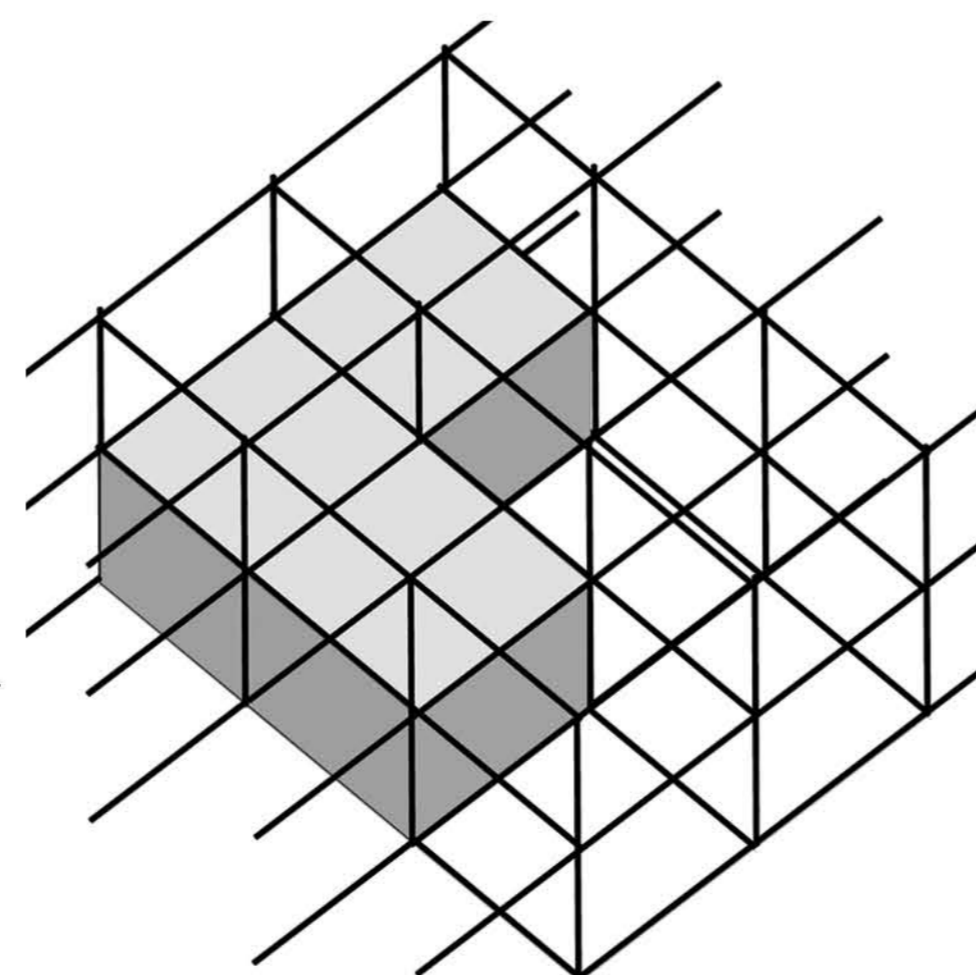


### BASIC CONSTRUCTION SYSTEM.

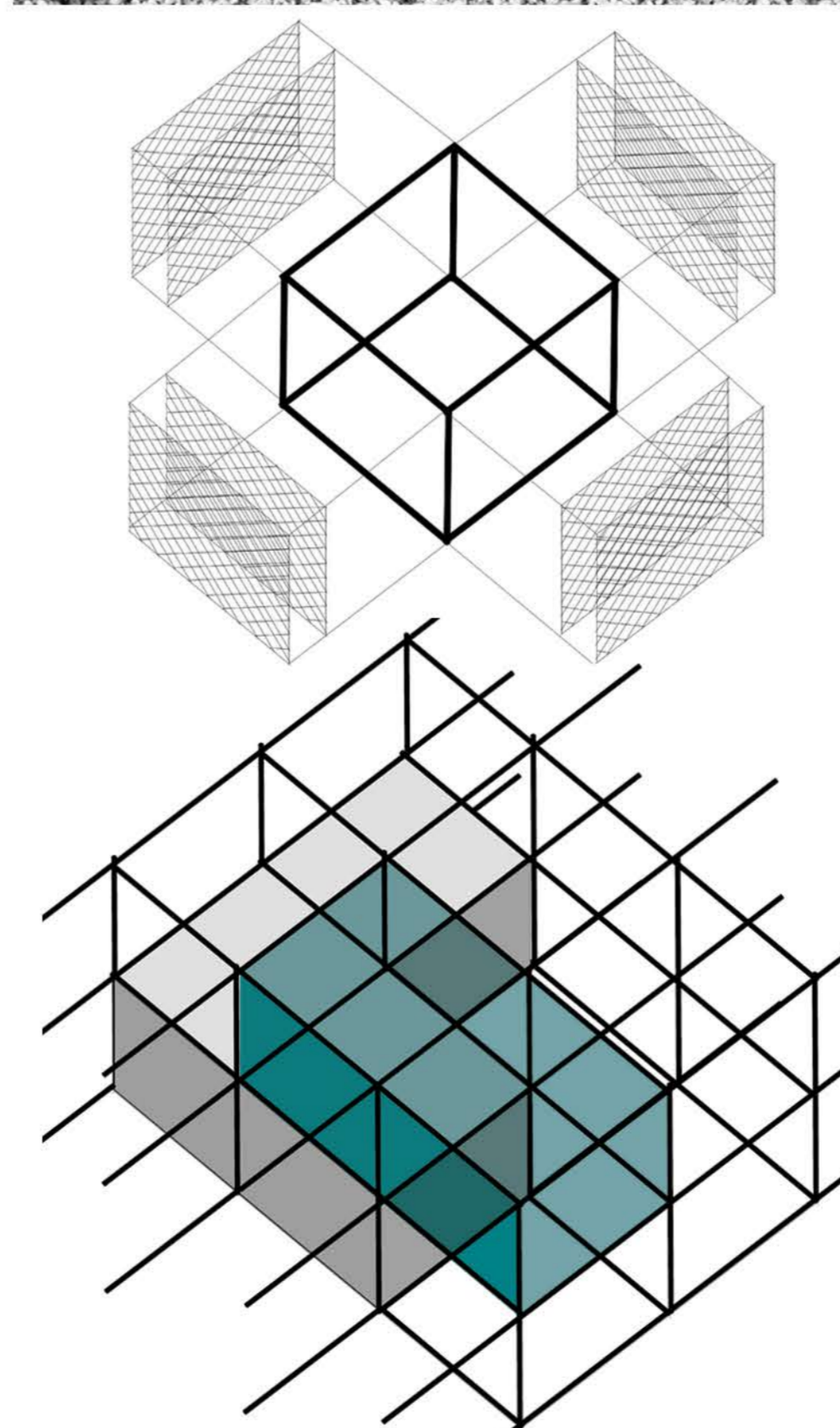
Simple construction systems, minimizing the need for advanced and expensive technologies, as will be hold by the participation of the local community.



UNIT COMPOSITION (STEEL FRAMES + MESH + STONES).

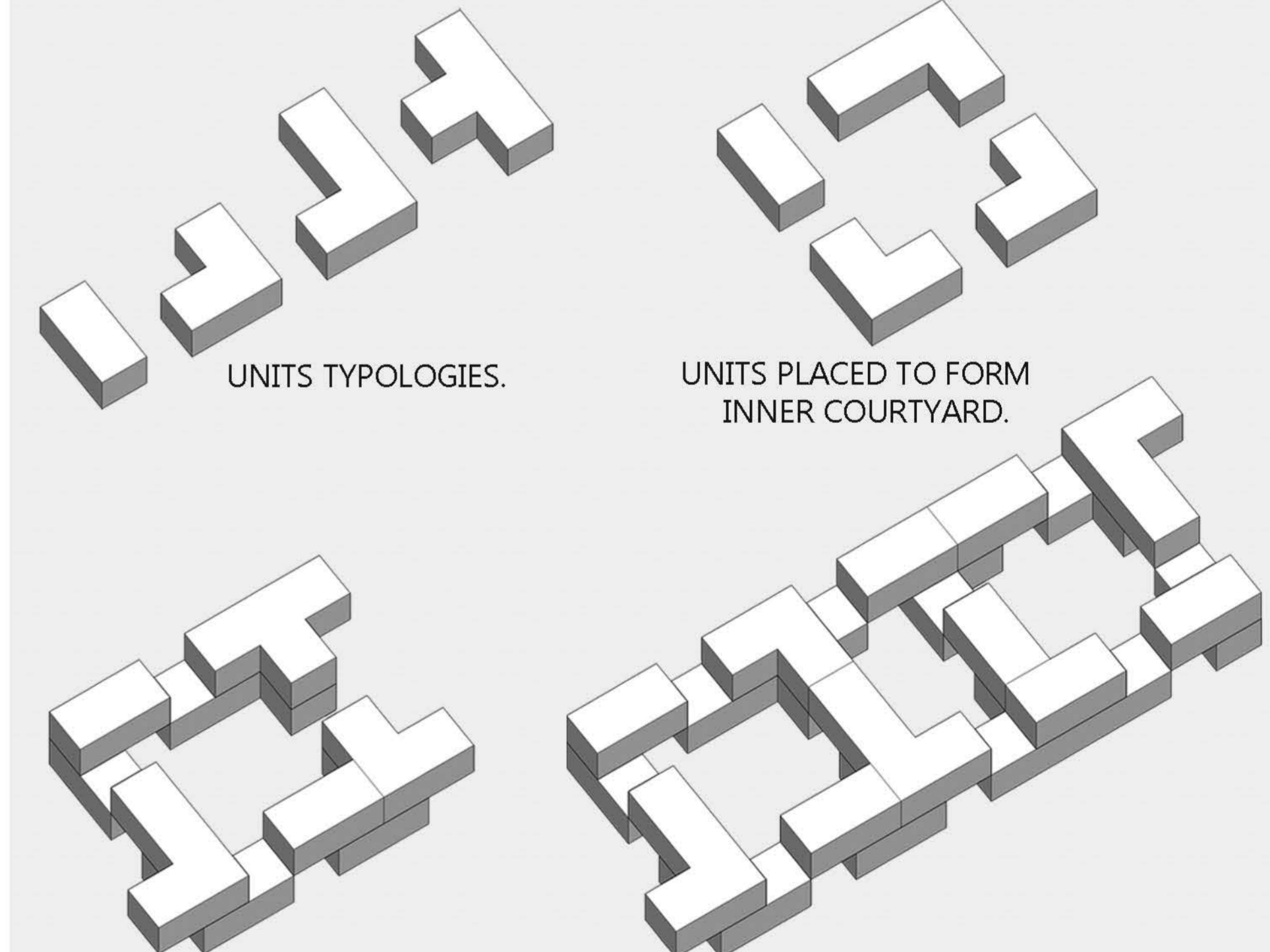


FABRIC COMPOSITION ACCORDING TO THE MODULE.



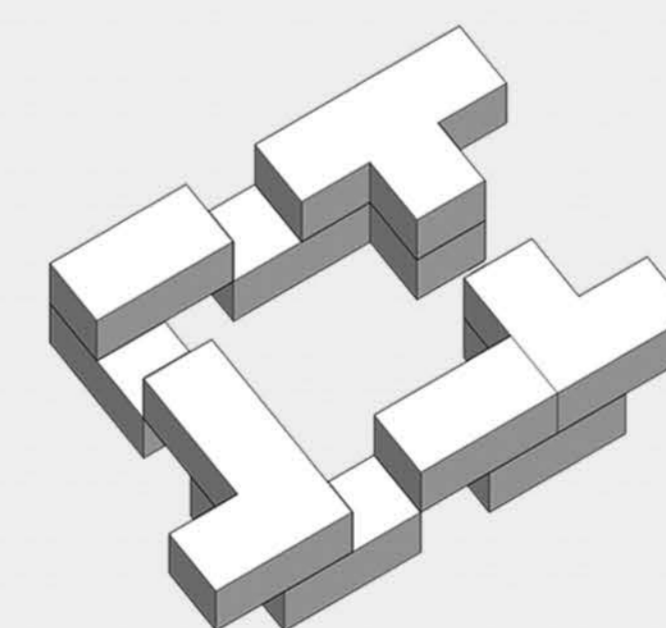
FLEXIBILITY OF EXPANSION, SEPARATED STRUCTURAL SYSTEM

## STACKING PRINCIPAL (COMPACT FABRIC)

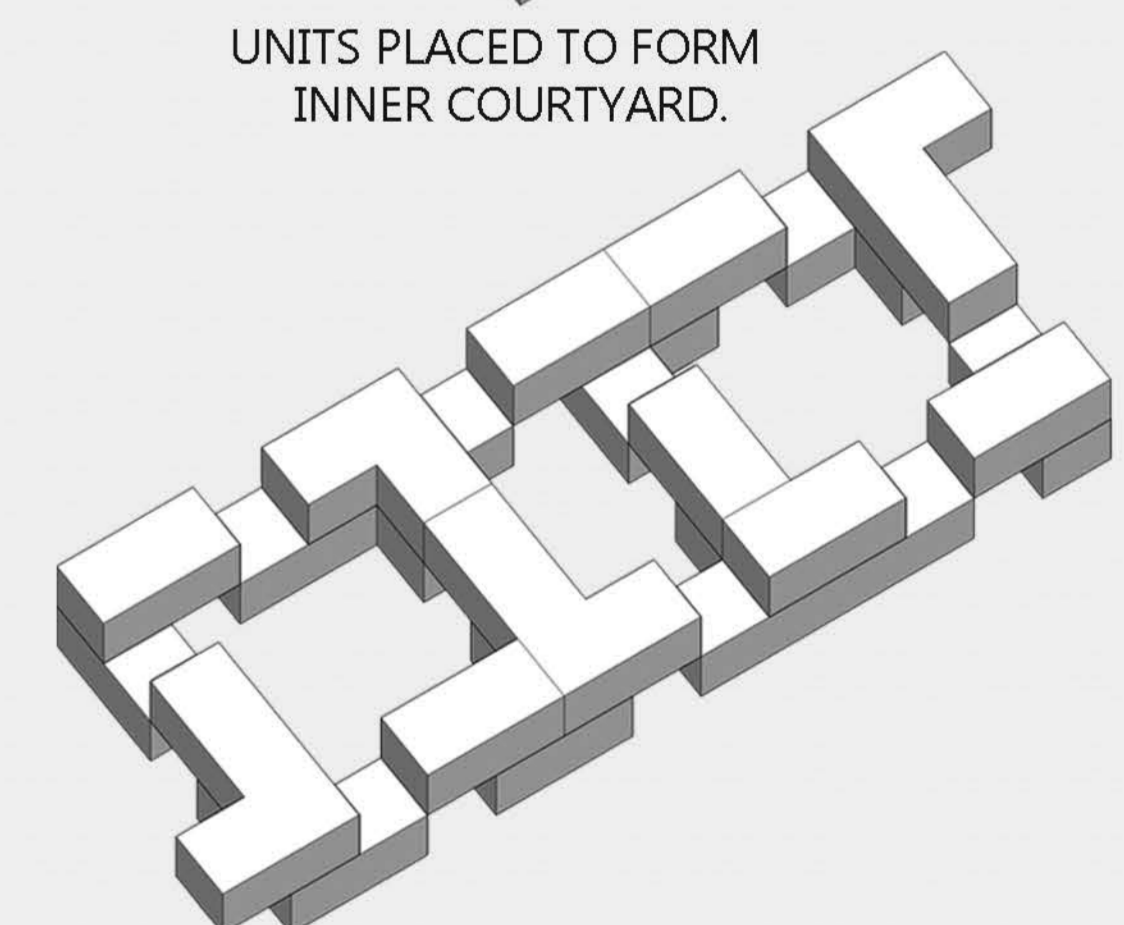


UNITS TYPOLOGIES.

UNITS PLACED TO FORM INNER COURTYARD.



UNITS STACKED TOGETHER FORMING STRUCTURAL HULL AROUND THE COURTYARD.



BY FOLLOWING THE MODULE, SEVERAL COMBINED FORMS FORMING A COMPOSITION BLOCK WITH INNER CONNECTED COURTYARDS AND PASSAGES.

## TRANSITION OF SPACES (+VE & -VE PRESSURE OF LIGHT EXPOSURE).

Experience of different exposures and transitions between narrow shaded steets and open courtyards.

