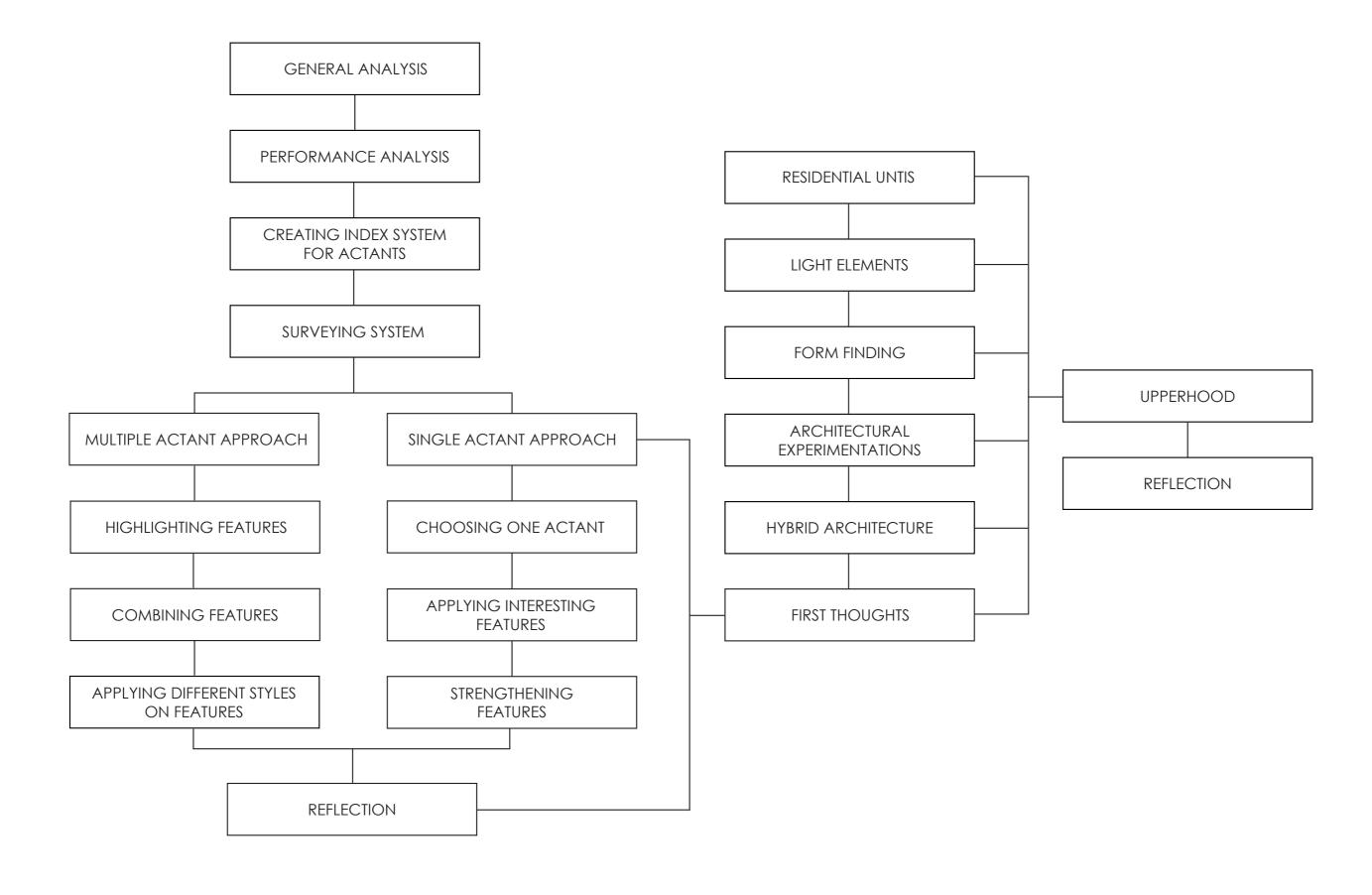


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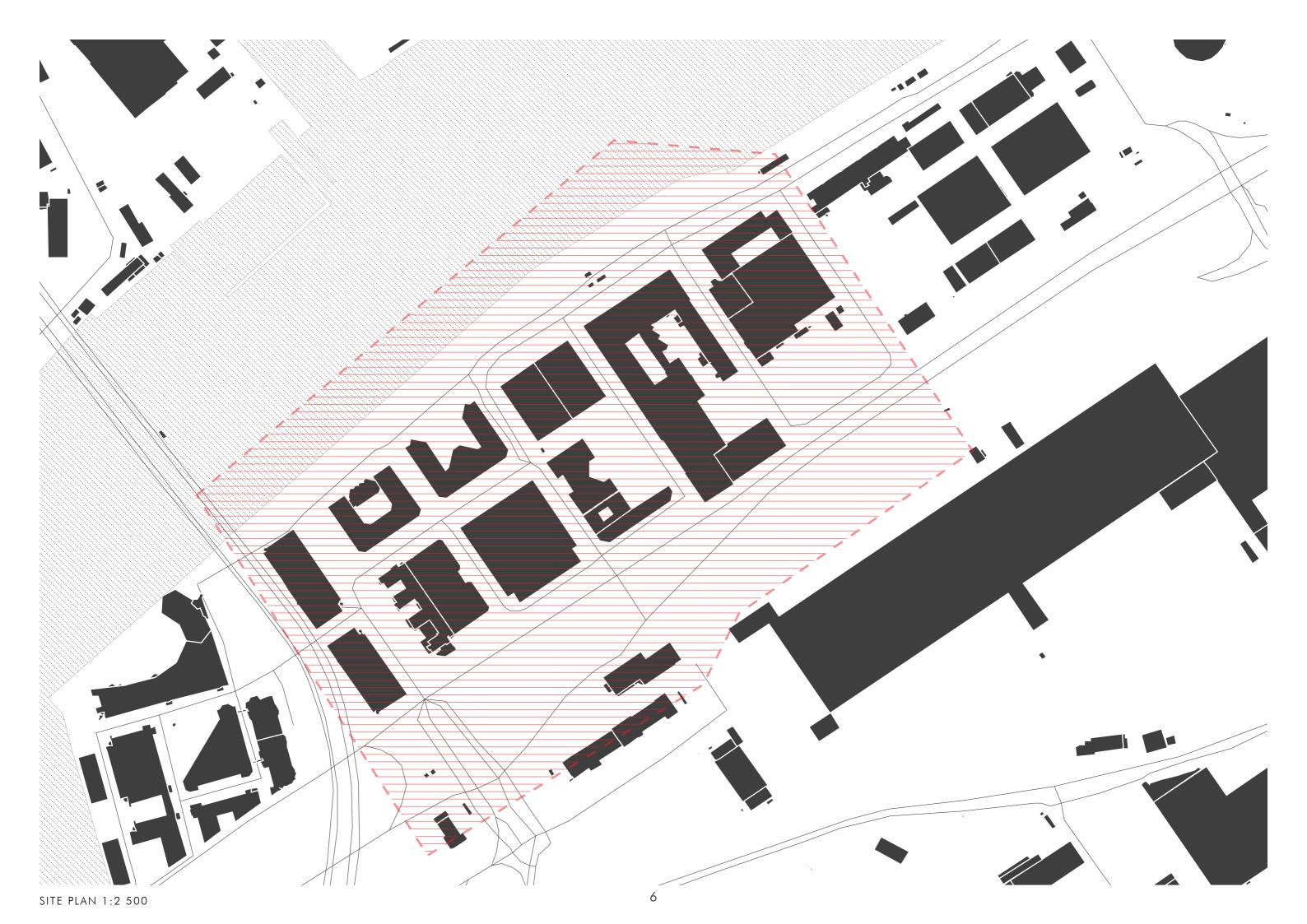


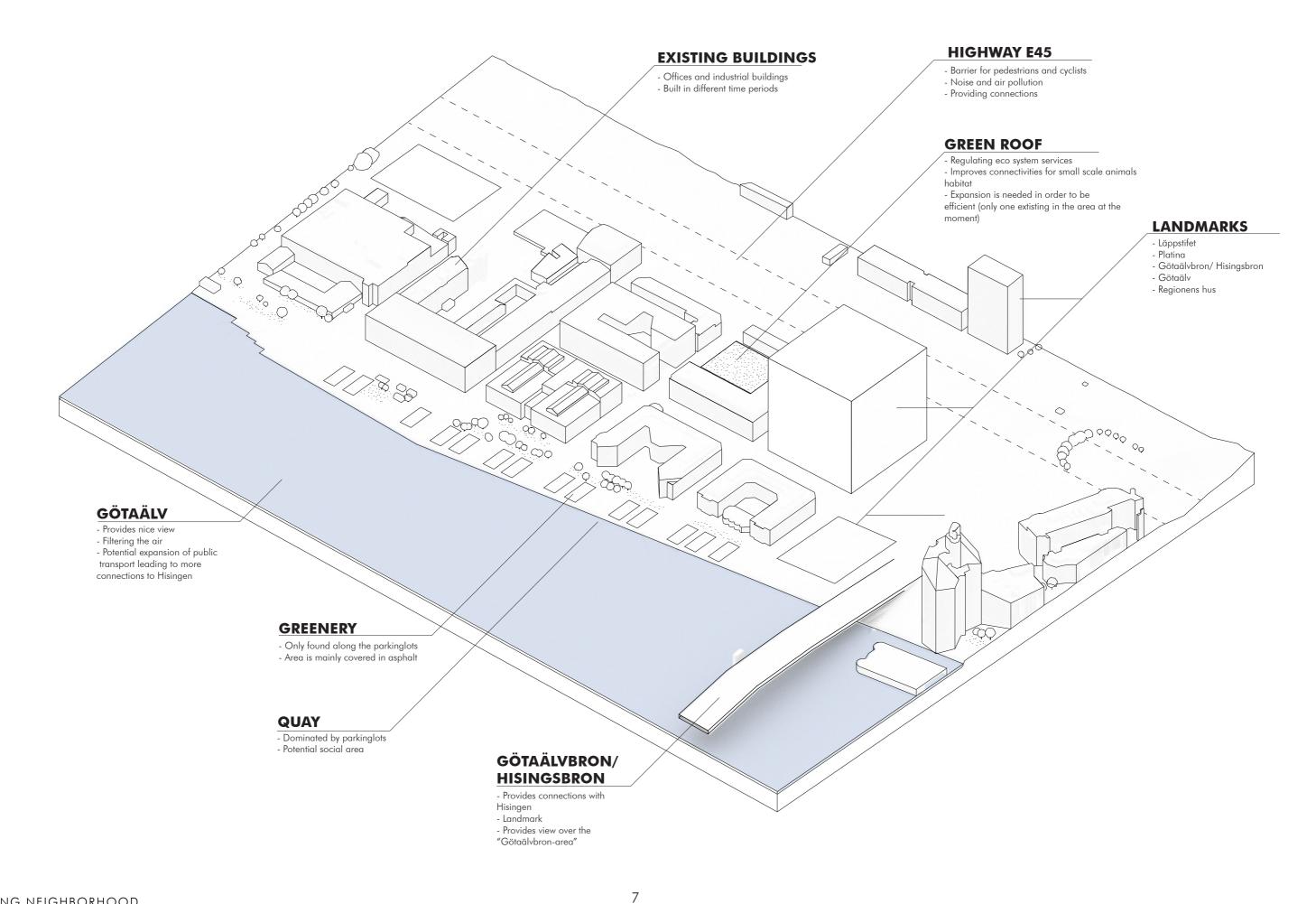
EVOLUTIONARY TREE

NEIGHBORHOOD OVERVIEW

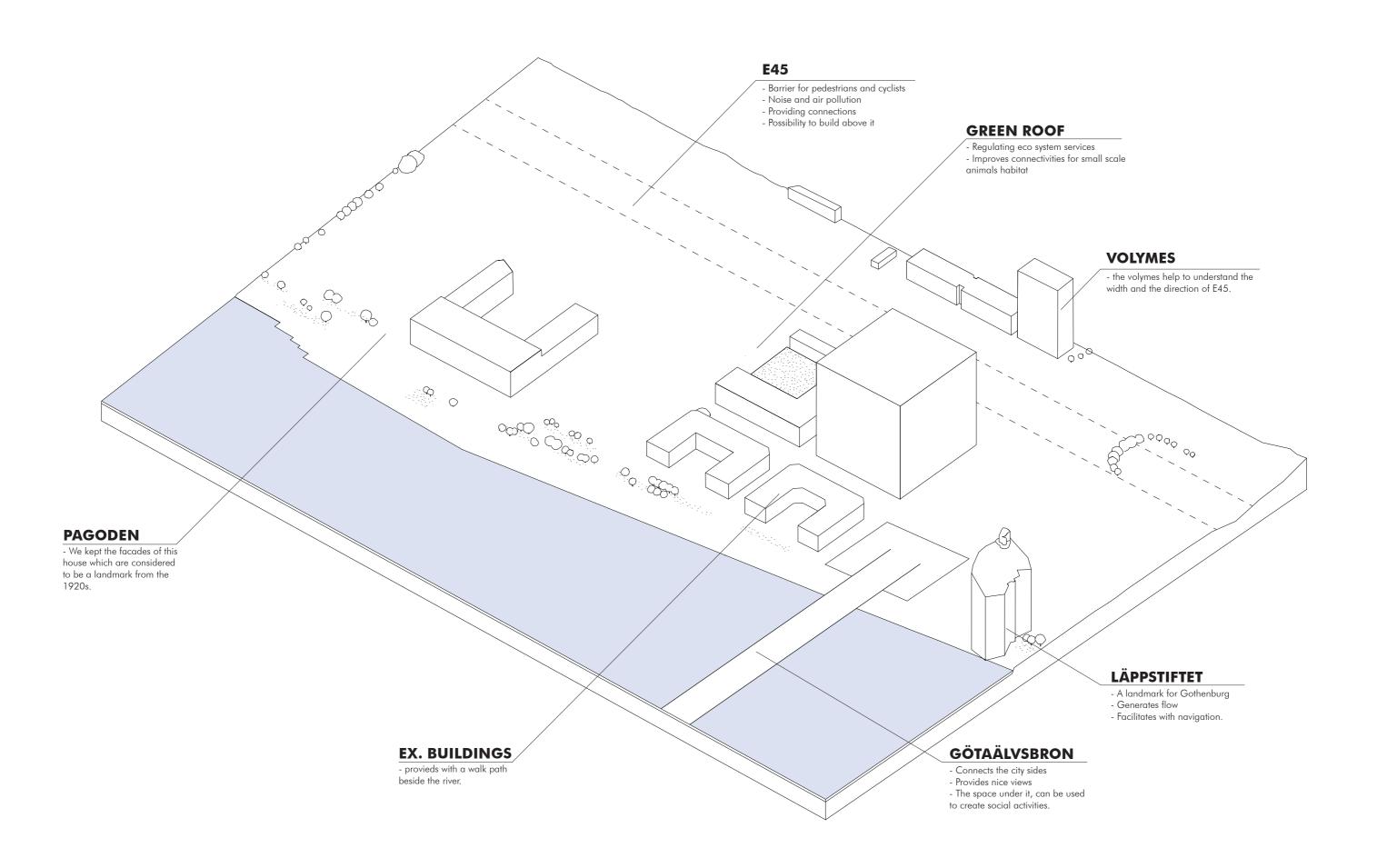
Gullbergsvass is a central part of Gothenburg. It is fairly underdeveloped and has potential for great connections in the city. We have been working with Götaälvbron which is the north-western and most developed part of Gullbergsvass. In the first step we did a SWOT-analysis to compile the assets and challenges in the existing neighborhood. Further on we filtered out objects of low interest and quality to create a base for further analysis.







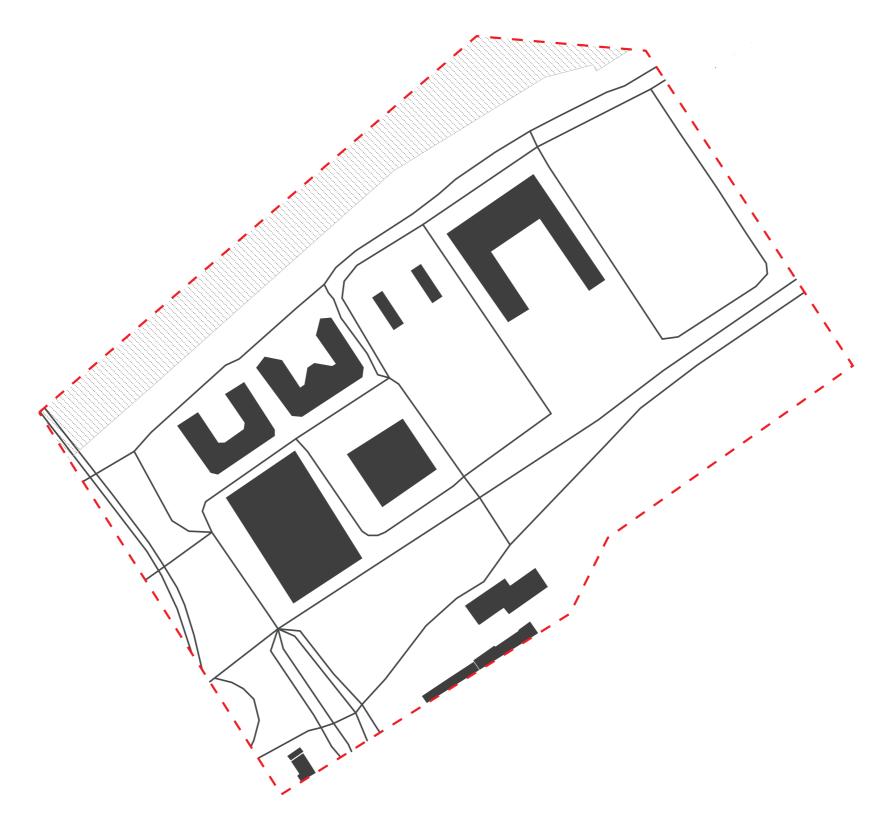
EXISTING NEIGHBORHOOD



8

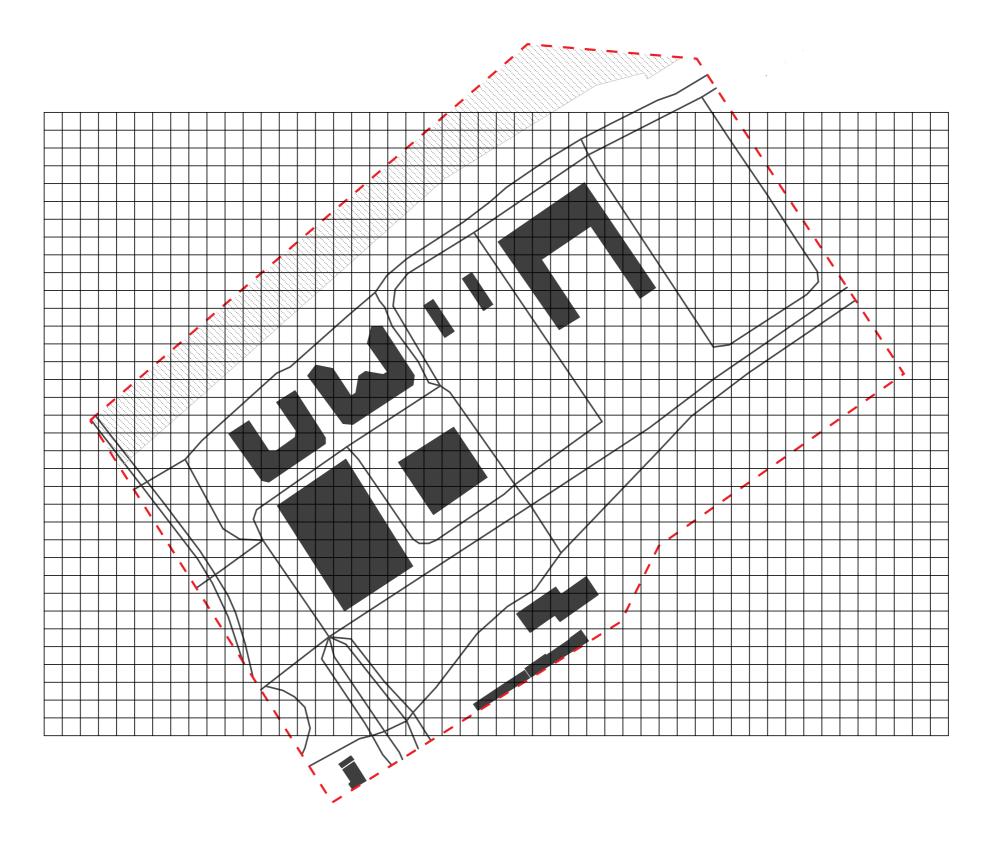
NEIGHBORHOOD PERFORMANCE ANALYSIS

To understand how the neighborhood performs, we conducted analysis using the five different actants: water, ventilation, ecosystems, mobility and daylight. We created a grid and overlayed it on the area. For each analysis, there is a grid showing how the neighborhood performed.



DEFINE THE BOUNDARIES OF THE FILTERED SITE

CONTEXT 10

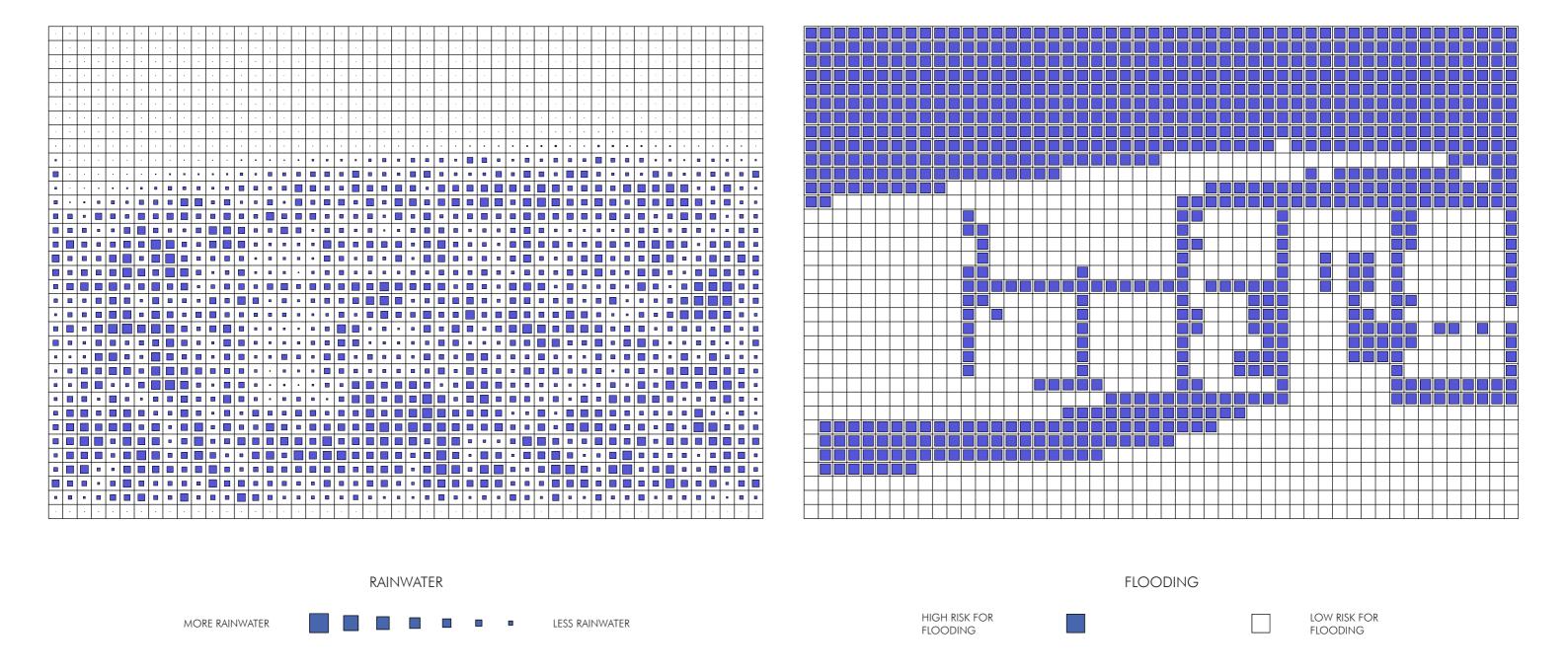


A GRID 13*13 M IS CREATED AND OVERLAYED ABOVE THE SITE

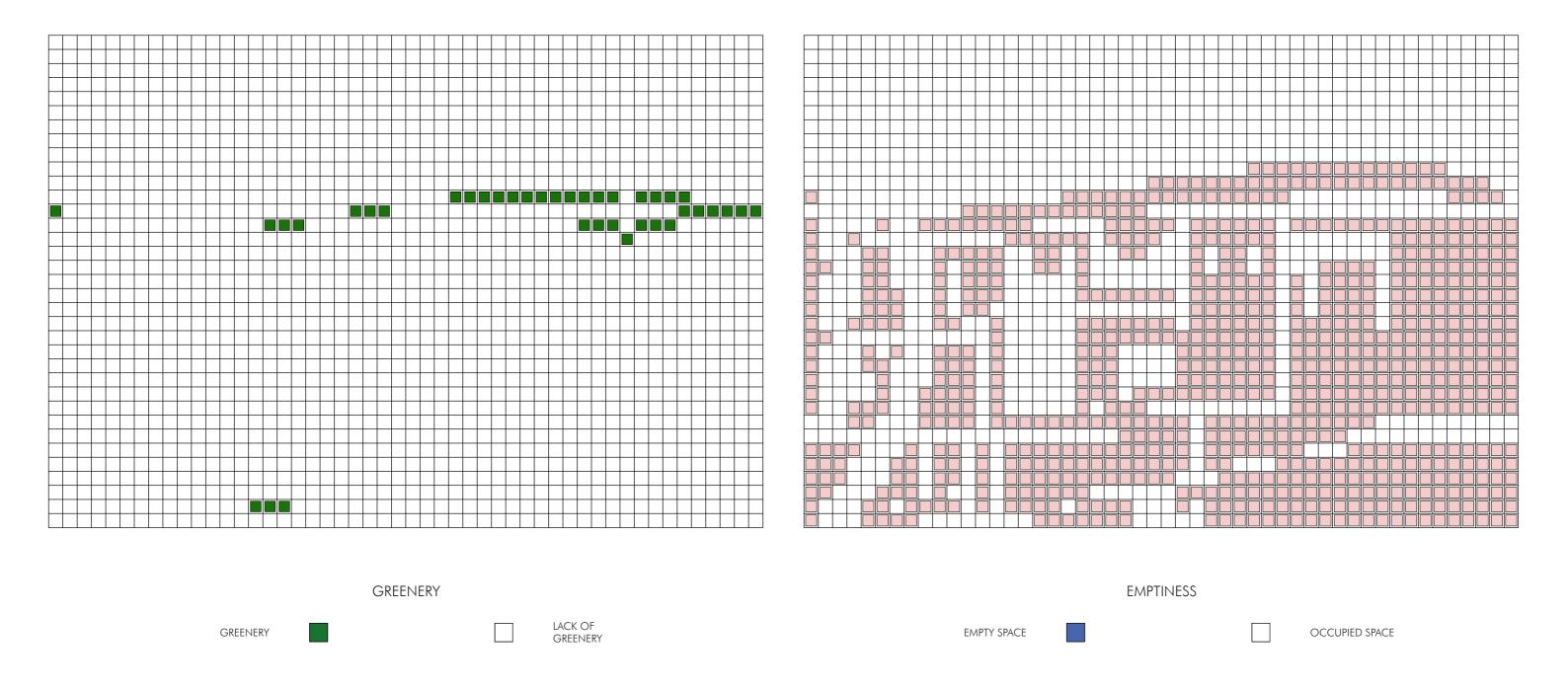
OVERLAYED GRID

	_
AIR POLLUTION	NOISE POLLUTION
more air pollution	more air pollution

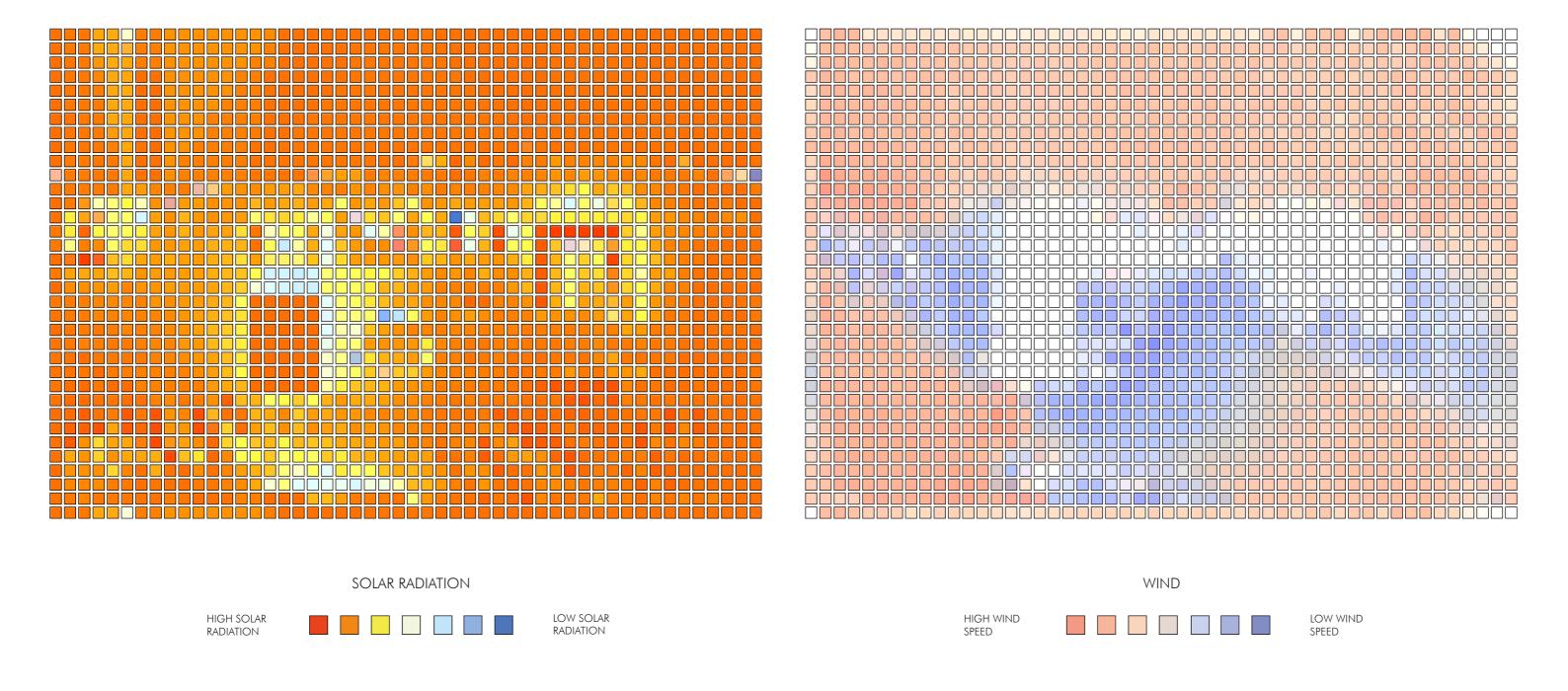
NOSIE & AIR POLLUTION 12



RAINWATER & FLOODING

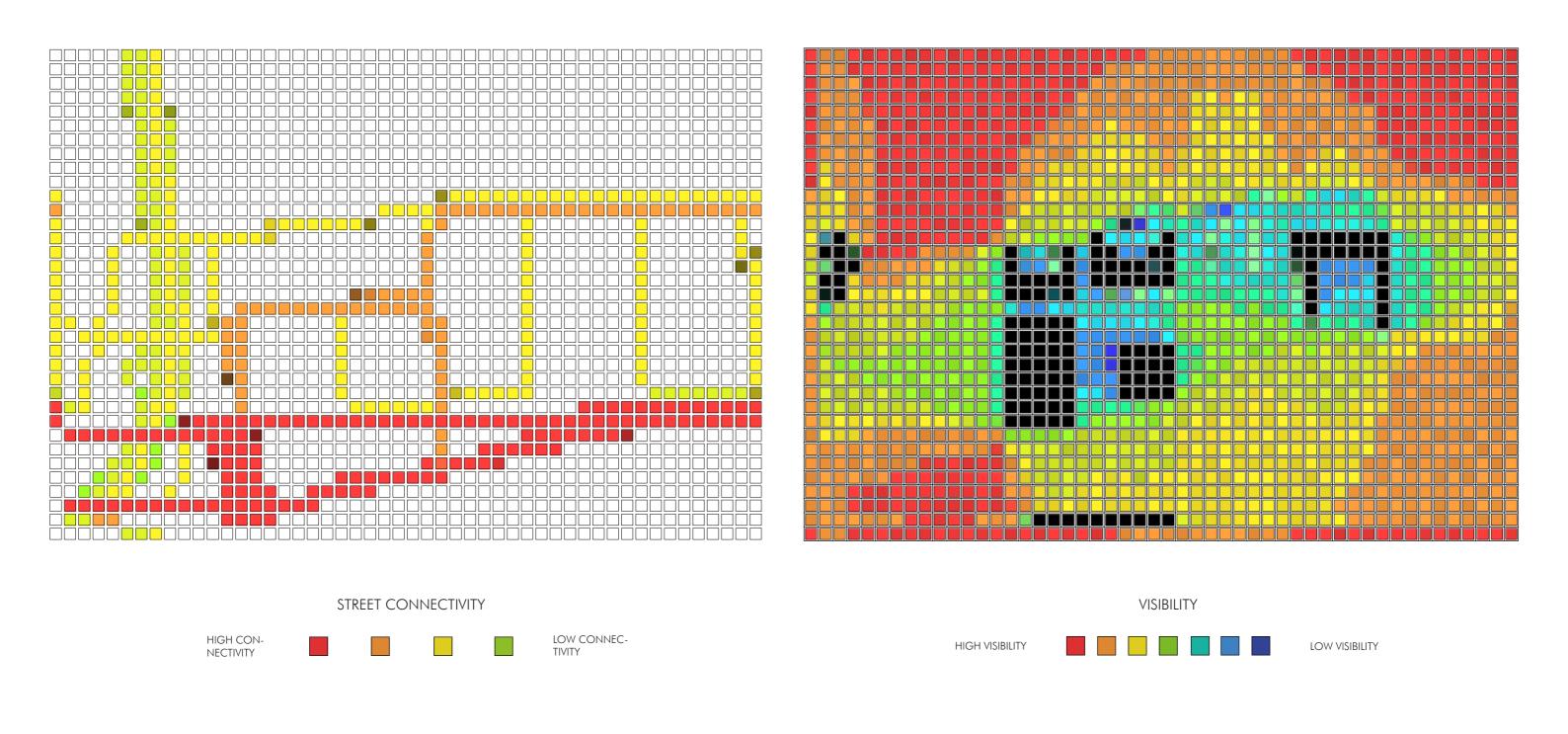


GREENERY & EMPTINESS 14



SOLAR RADIATION & WIND

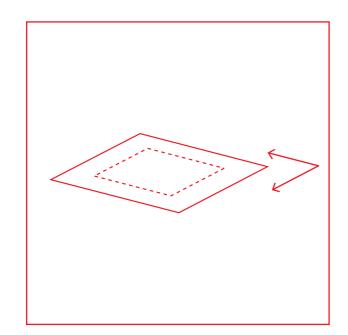
STREET CONNECTIVITY & VISIBILITY



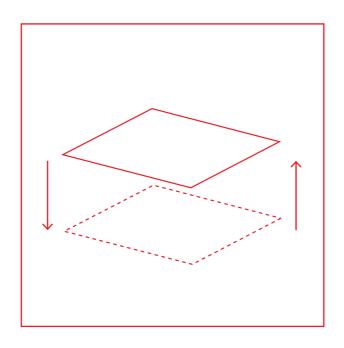
16

CARTOGRAPHY

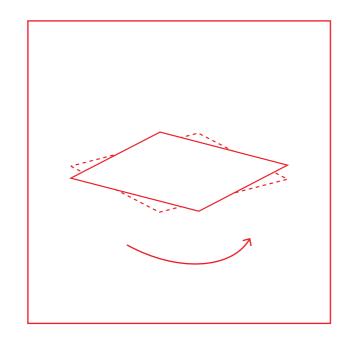
Using a square as the base shape, the different actants have different effects on the shape. Combining that with the grid-system created the surveying system which consists of different volumes adapted to the actant analyzes. When integrating the buildings, some of them stand alone and some are integrated with the new volumes.



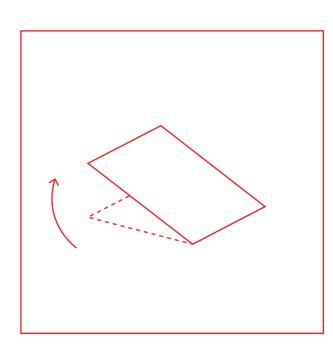
MOBILITY - FLOW DENSITY



WATER - FLOODS/ RAIN



VENTILATION - WIND STRENGTH/DIRECTION



DAYLIGHT - SOLAR RADIATION

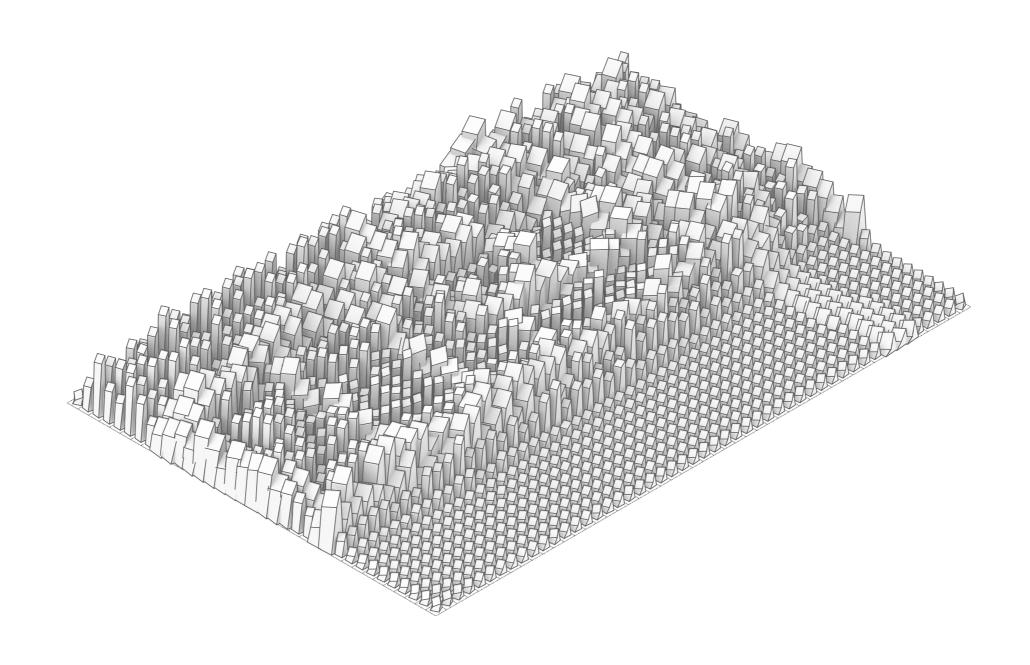
The size of the index is scaled by how dense the flow is.

The height of the index is defined by how dense the water is.

The degree of the rotation (2D) of the index is defined by the strength/direction of the wind.

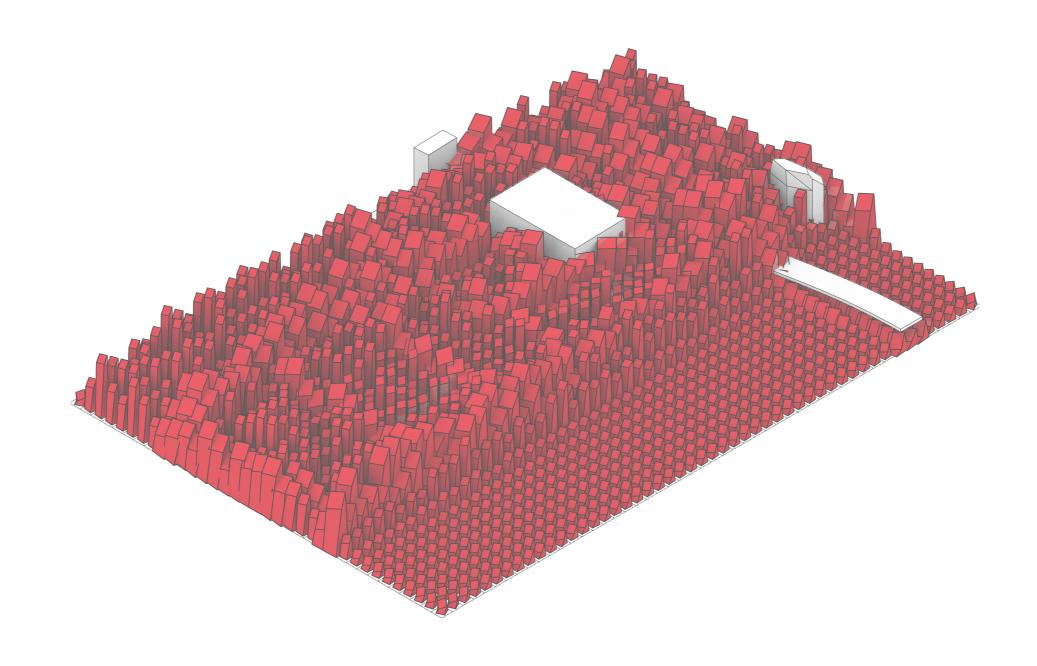
The degree of the rotation (3D) of the index is defined by the strength of the sun radiation

INDEX SYSTEM 18



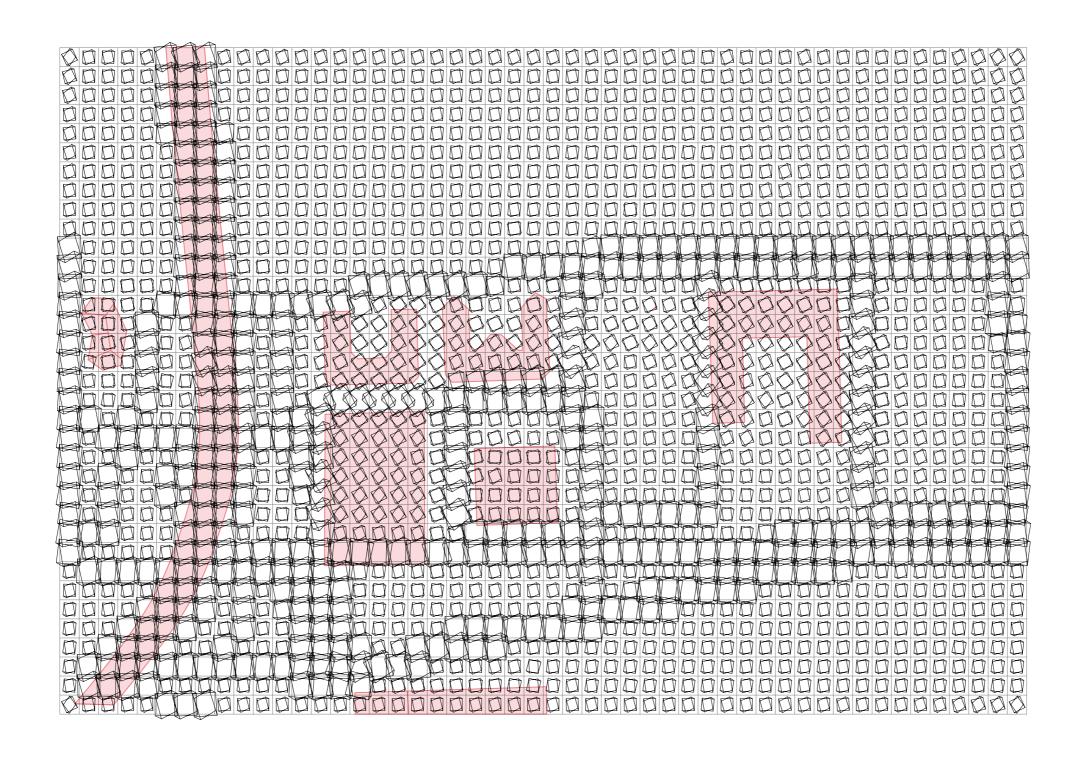
APPLYING THE INDEX SYSTEM ON THE GRID

SURVEYING SYSTEM 19



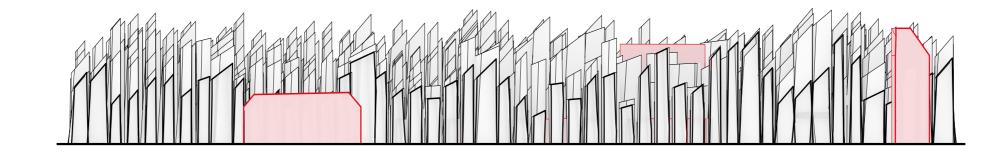
THE ASSETS ARE PLACED BACK IN THE SURVEYING SYSTEM

SURVEYING SYSTEM & ASSETS 20



PLAN SHOWING THE SURVEYING SYSTEM WITH THE ASSETS INTEGRATED IN IT

PLAN-VIEW MAP 21

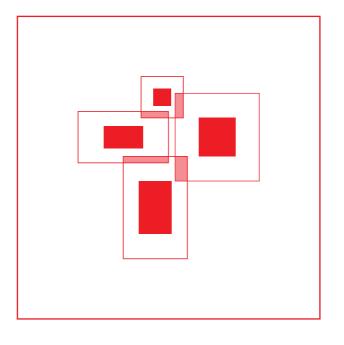


SECTION SHOWING THE SURVEYING SYSTEM WITH THE ASSETS INTEGRATED IN IT

SECTION-VIEW MAP 22

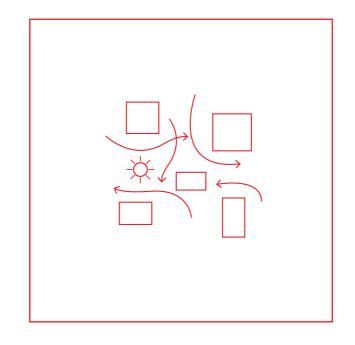
ARCHITECTURAL EXPERIMENTATION

In the architectural experimentation, we decided to go down deeper into the surveying system that we have created. A multiple actant approach was followed, where we overlapped different features from the performance analyzes and highlighted them in axonometries. Theses new features helped us understand where are the potentials for development & even understand which areas are exposed for problems that need to be solved.



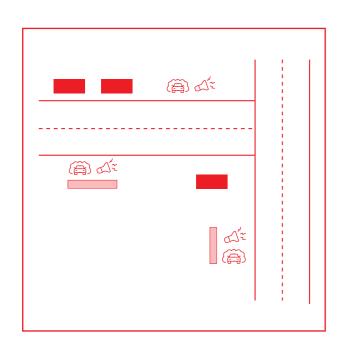
OFFSET THE OBJECT, INTERSECTIONS

potential common space, entrances



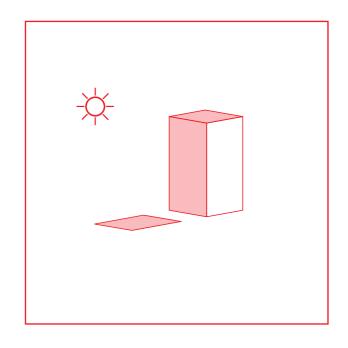
FLOW + LIGHT

social connections



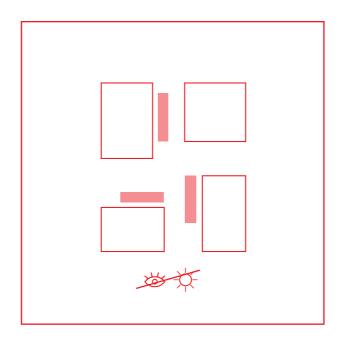
AIR/NOISE POLLUTION + EMPTY SPACES

redensification, potential



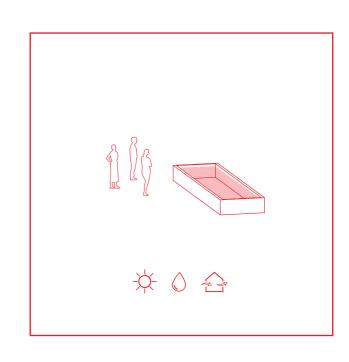
DAYLIGHT + EMPTY SPACES/BUILDINGS

energy production



LOW VISIBILTY + LOW LIGHT

no safety, security potential

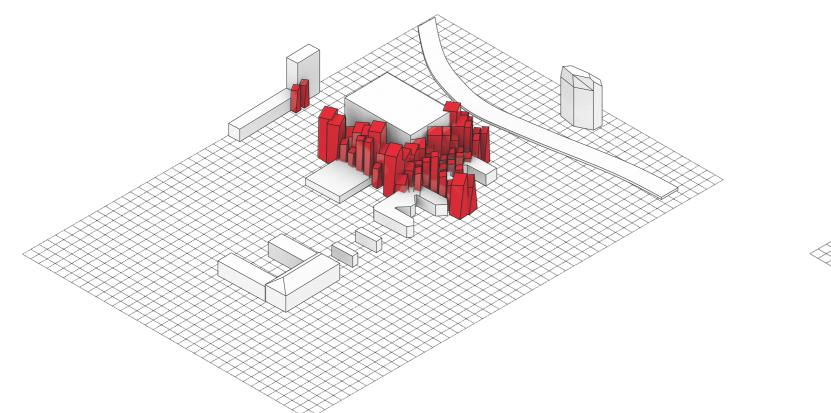


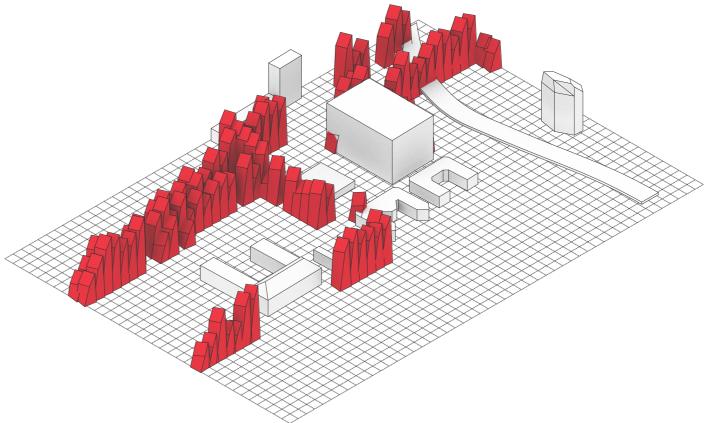
WATER + LIGHT + VENTILATION

social space, urban agriculture

MULTIPLE ACTANT FEATURES

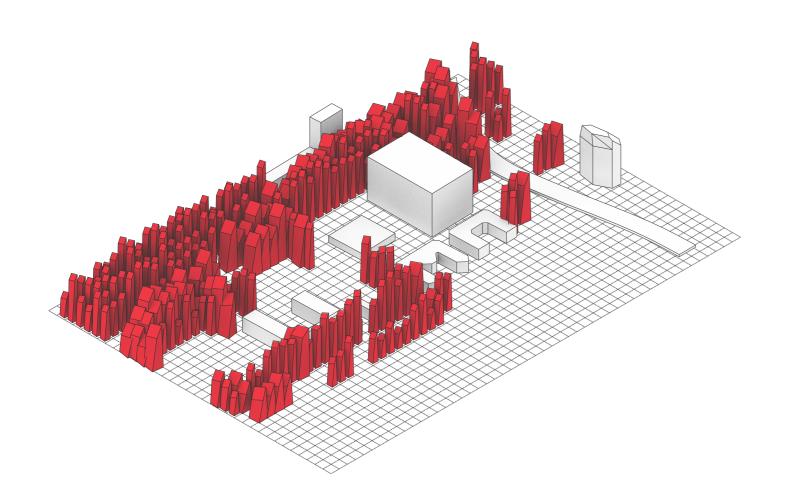
FINDING FEATURES 24

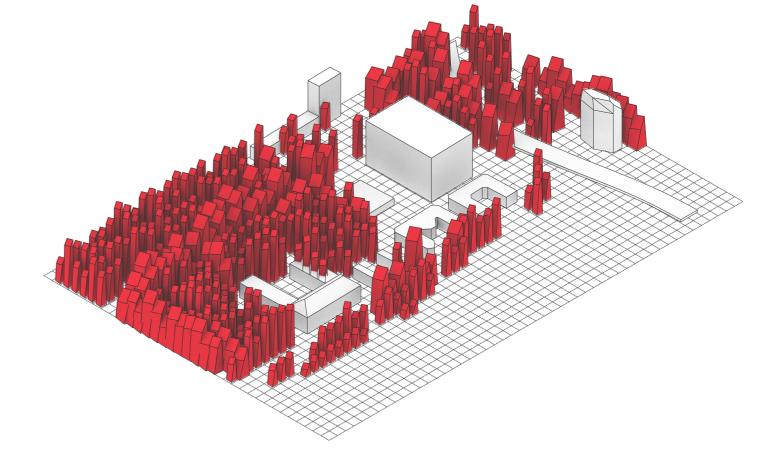




INTERSECTIONS OF OFFSETTED OBJECTS

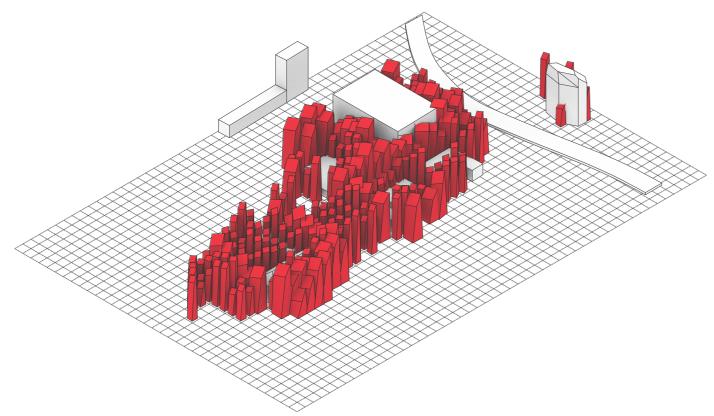
FLOW + LIGHT





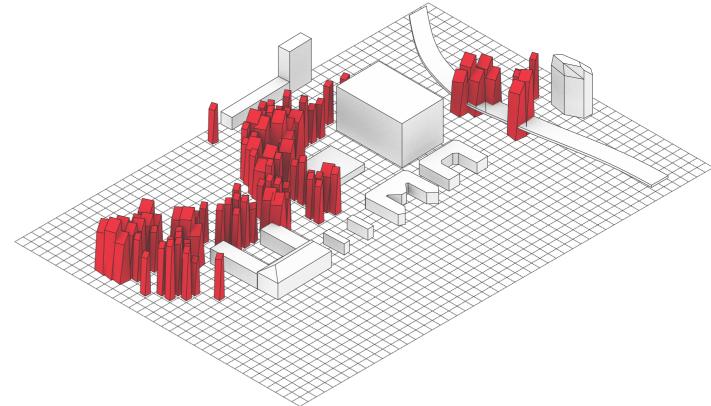
NOISE POLLUTION & EMPTY SPACE

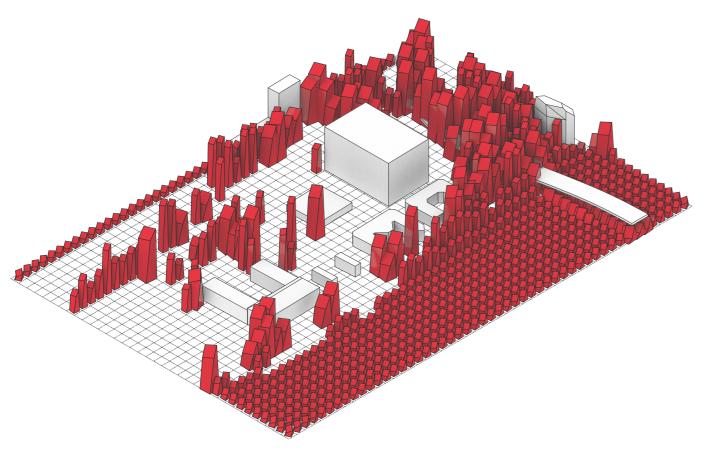
DAYLIGHT & EMPTY SPACE



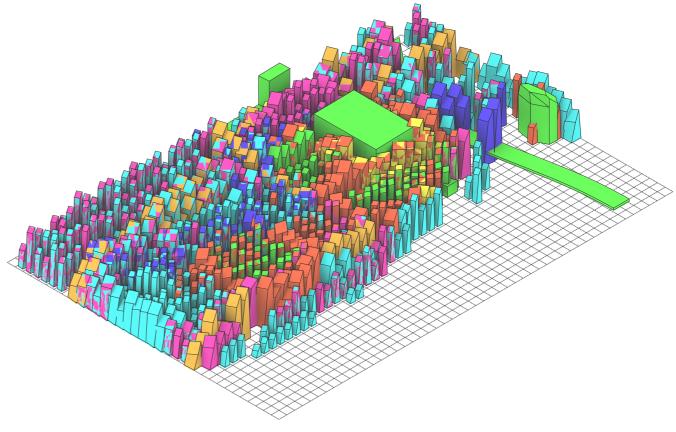
LOW VISIBILITY & LOW LIGHT







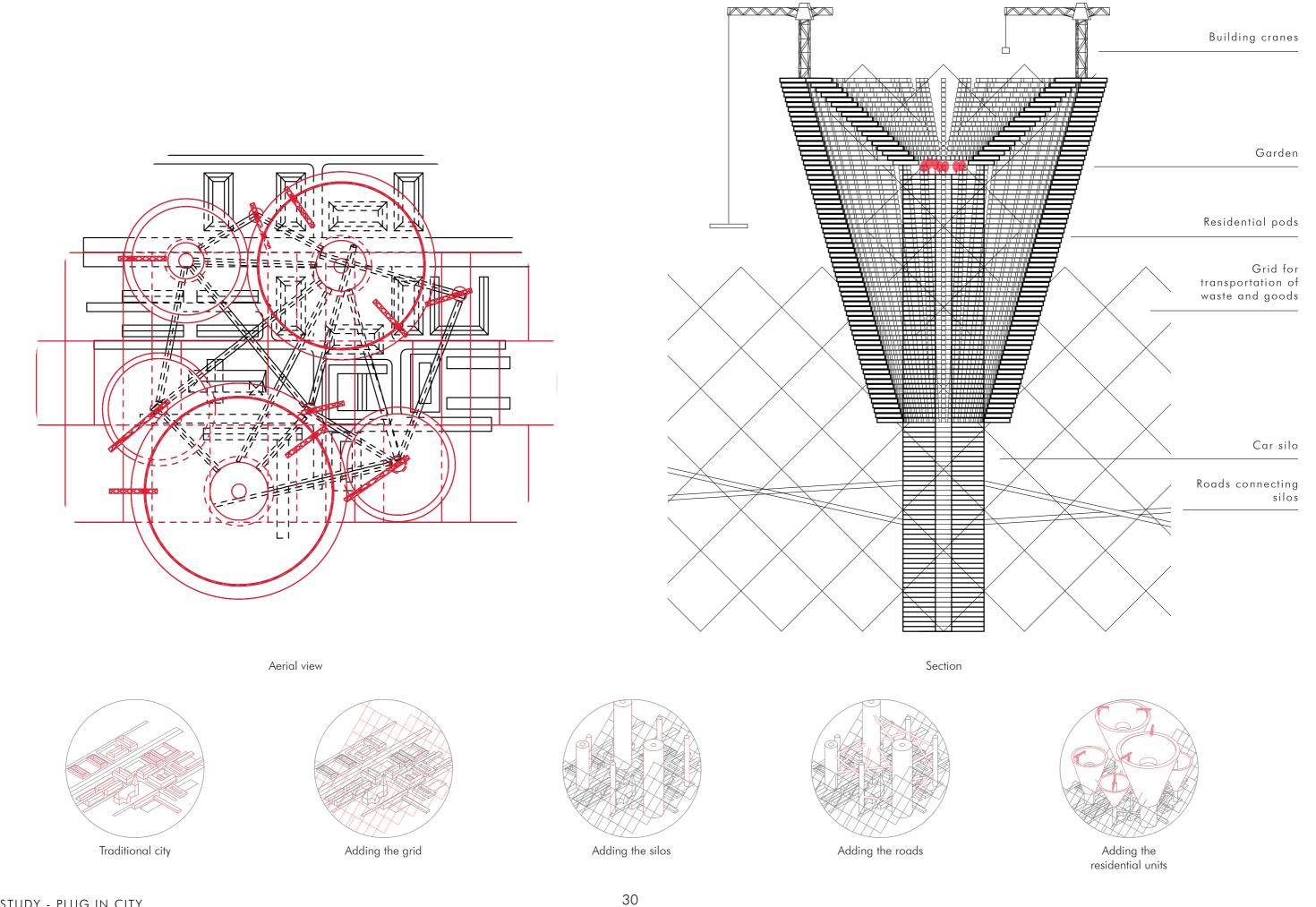




HYBRID ARCHITECTURE

My intentions for the in-depth project have been from the first beginning to occupy the sky. That's why I have looked into the Plug In City as a case study. Where the idea of it comes from a combination of criticising the glorification of suburbia and the huge construction site that was Europe around 1960.

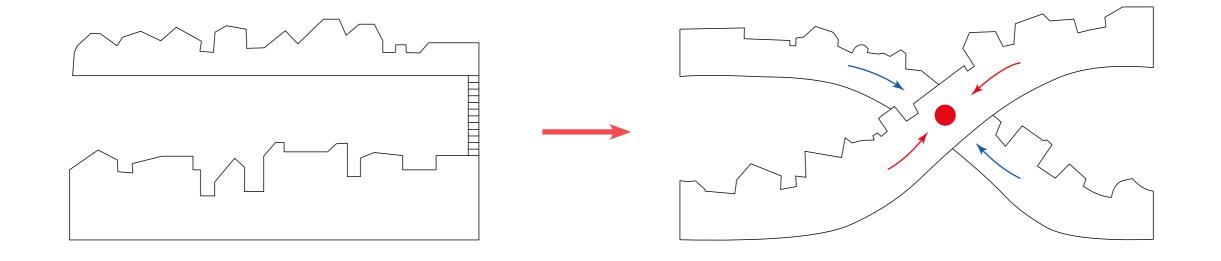
In the Plug In City, a superstructure in the form of a grid would be implemented to an exisiting city world. This grid cassies waste and supply throughout the city. Large cilos would be constructed to provide a core for further construction whilst also providing parking. Between the silos, roads are connected above the exisiting city. Lastly the conical shape of housing and lessure in constructed using the permanent construction cranes. The housing pods can be modified and moved whenever suited. The city were never due be finished, but rather under permanent construction.



CASE STUDY - PLUG IN CITY

FIRST THOUGHTS

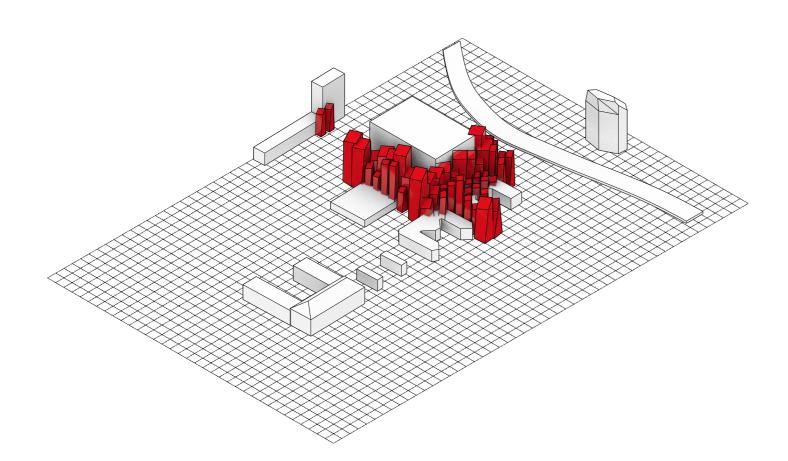
My first initial thoughts regarding the project in depth module is that I didn't want to deal with the overlapping from the first beginning. So what I have been thinking about is to create a structure that will occupy the sky. Not in a way that it feels that it is two sperate levels, rather in a way that both structures help and provide each others with different qualities. This structure will adapt itself for whatever happens on the ground level.



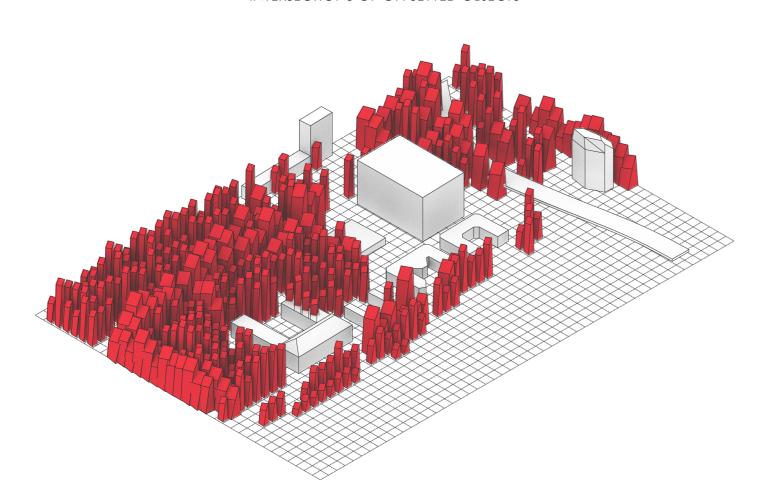
FIRST THOUGHTS 32

FORM FINDING

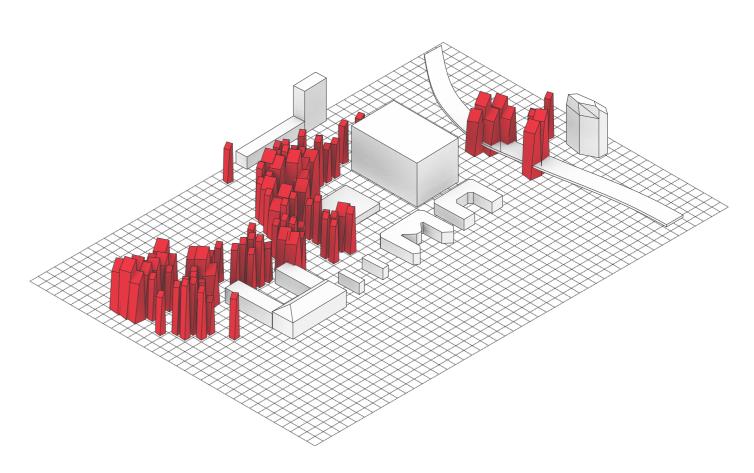
In the form finding, the features that have been created in the architectural experimentation part have been used to generate a form for the new supra-structure. All the index that has a social potential have been combined together and then a few of them have been selected and laborated with to generate the form. The form finding part shows as well how the conecpt got developed and all the light elements that have been used in the design.



INTERSECTIONS OF OFFSETTED OBJECTS

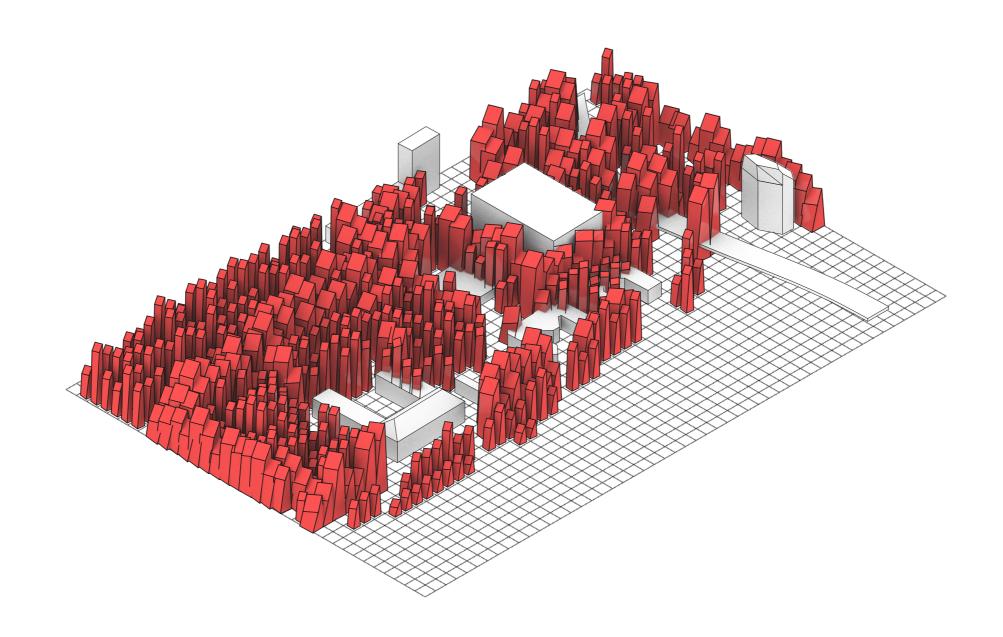


FLOW + LIGHT



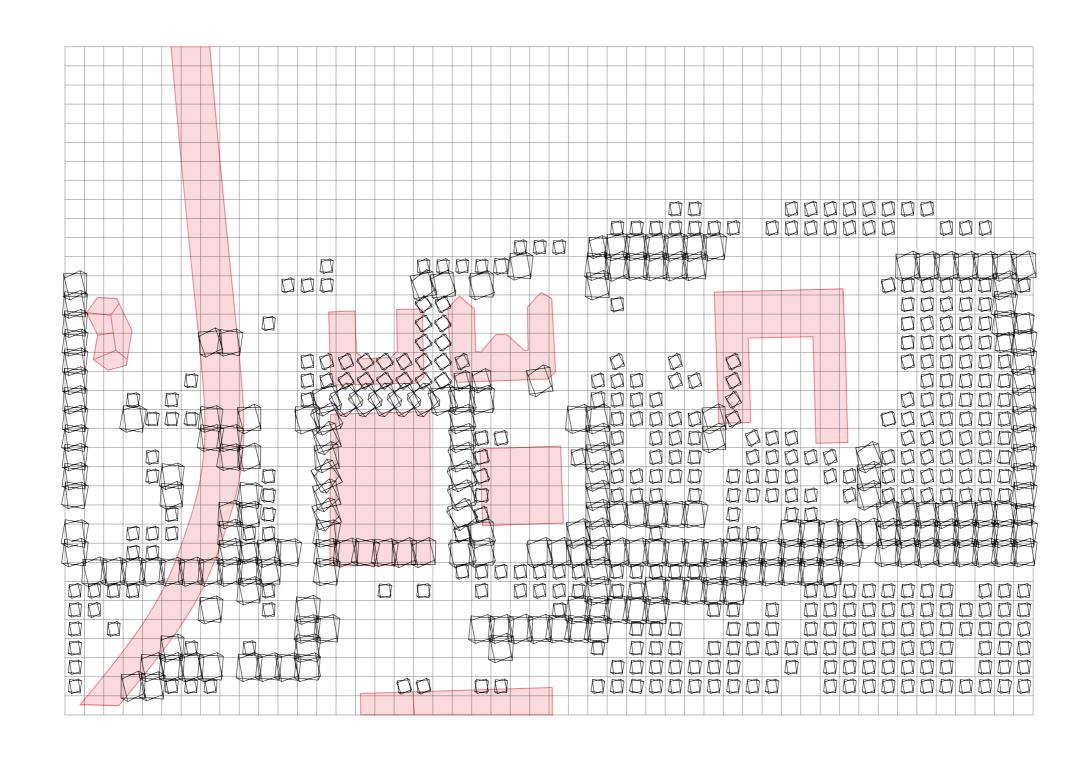
DAYLIGHT & EMPTY SPACE WATER & LIGHT & VENTILATION

SELECTED FEATURES 34



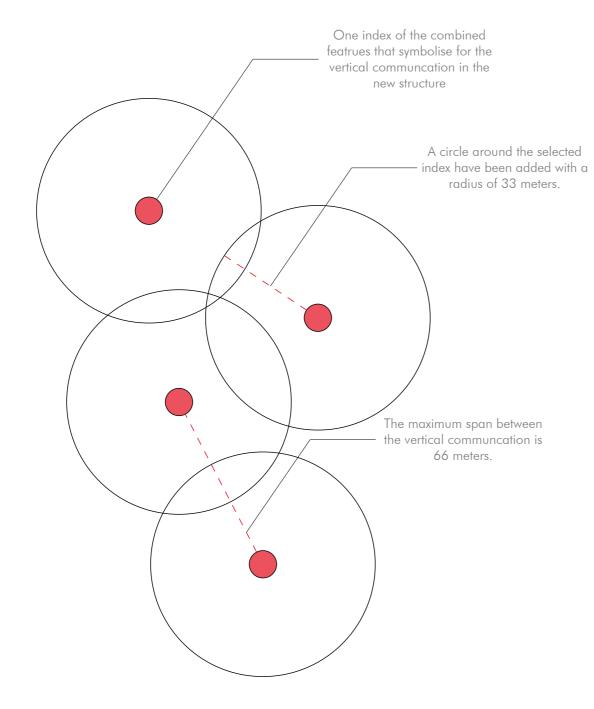
COMBINED FEATURES THAT CONTRIBUTE FOR SOCIAL ACTIVITIES

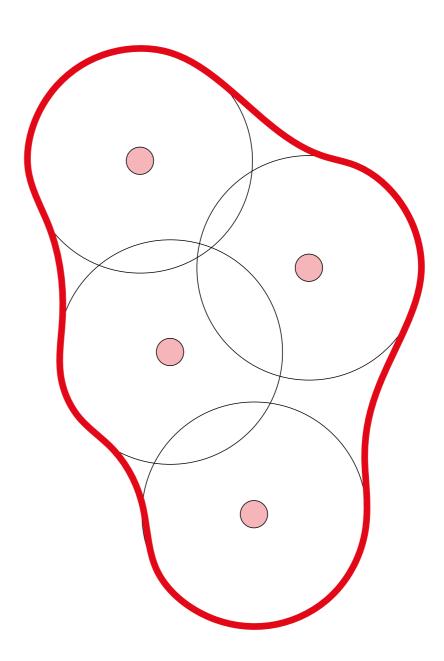
SELECTED FEATURES 35



PLAN-VIEW MAP SHOWING THE COMBINED FEATURES THAT HAS A SOCIAL POTENTIALS

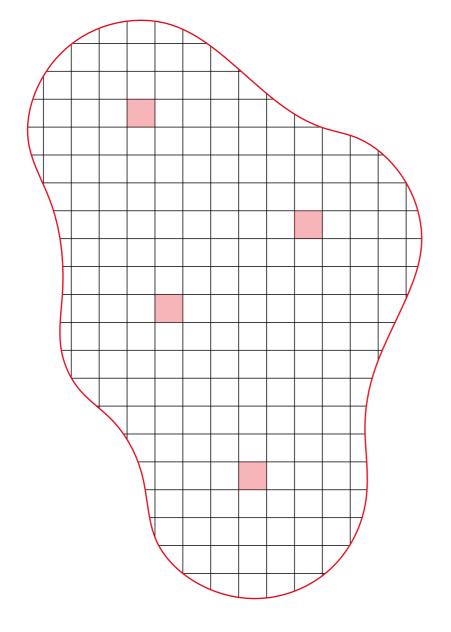
SELECTED FEATURES 36

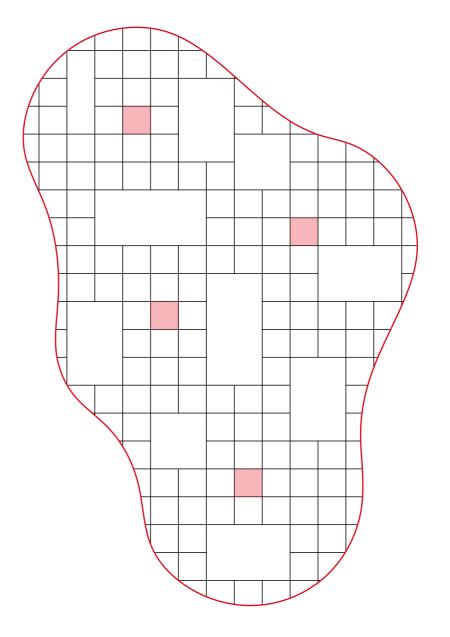




THE SELECTED INDEX ARE CONNECTED TO BE ABLE TO CARRY THE MODULES

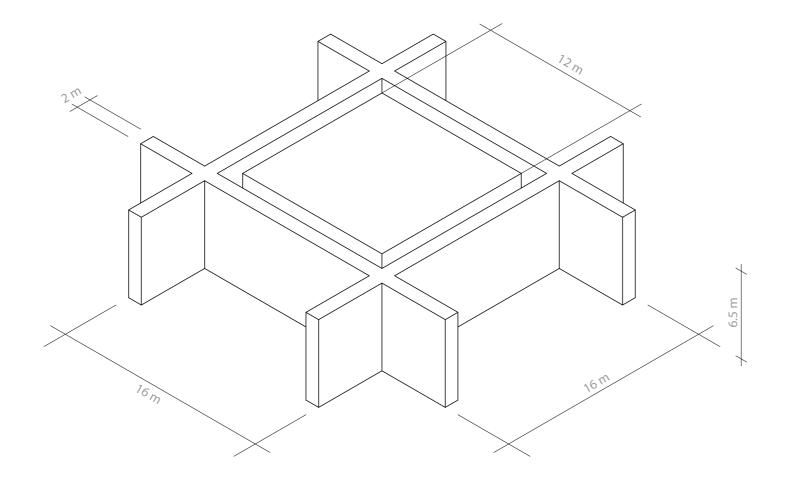
THE OUTLINE OF THE NEW STRUCTURE HAVE BEEN GENERATED



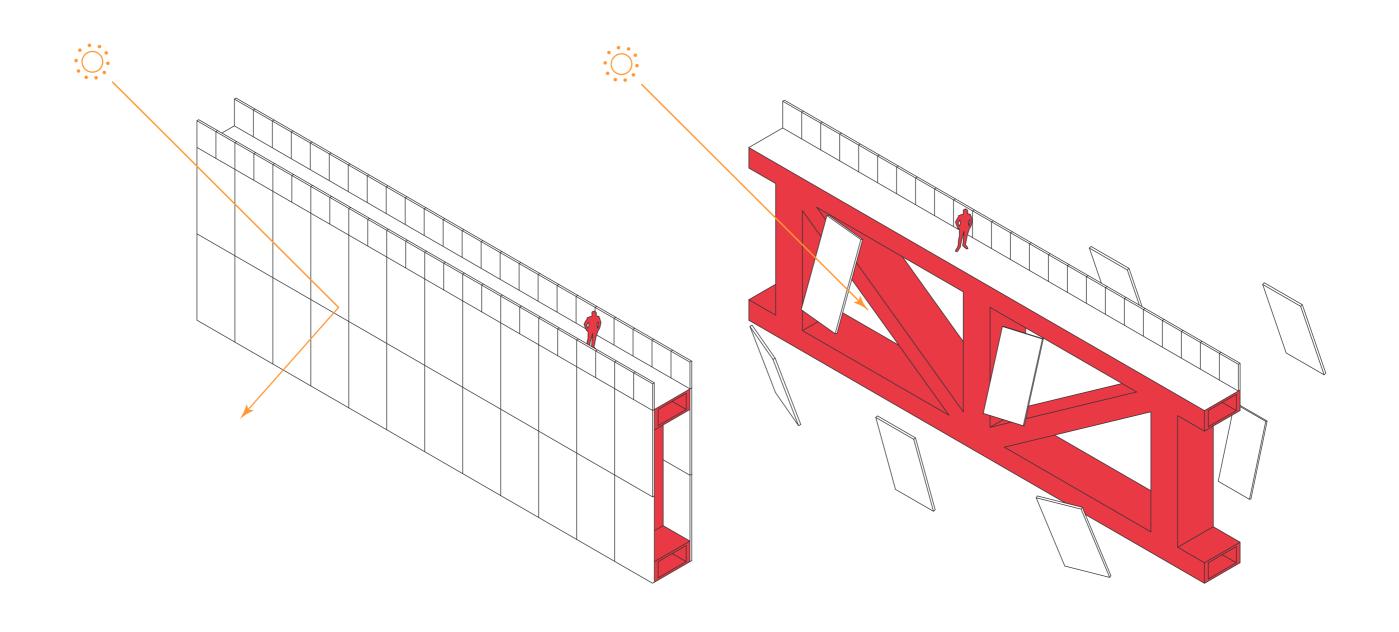


A GRID 13 * 13 METERS HAVE BEEN CREATED

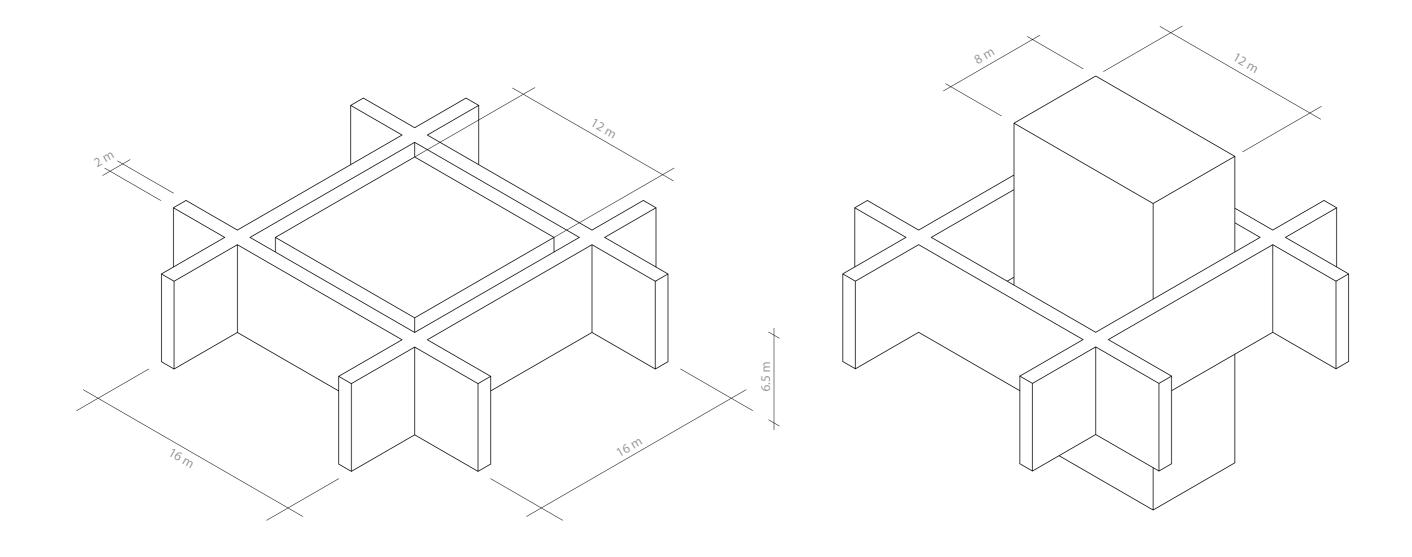
OPENINGS HAVE BEEN CREATED TO ALLOW MORE LIGHT



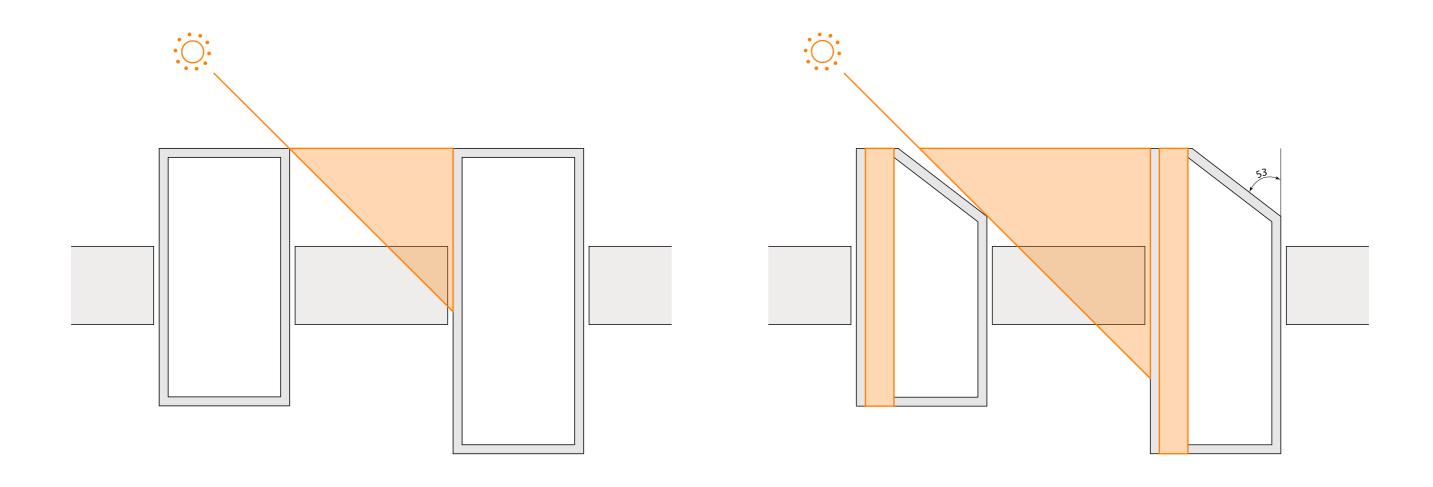
THE DIMENSIONS OF THE STREETS AND THE STRUCTURE HAVE BEEN DECIDED



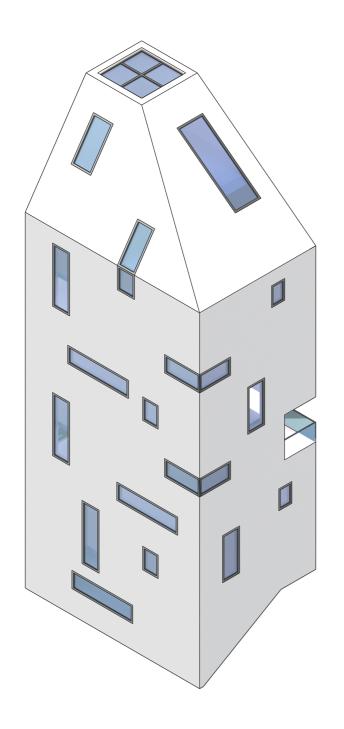
USING A TRUSS STRUCTURE INSTEAD OF WALL STRUCTURE

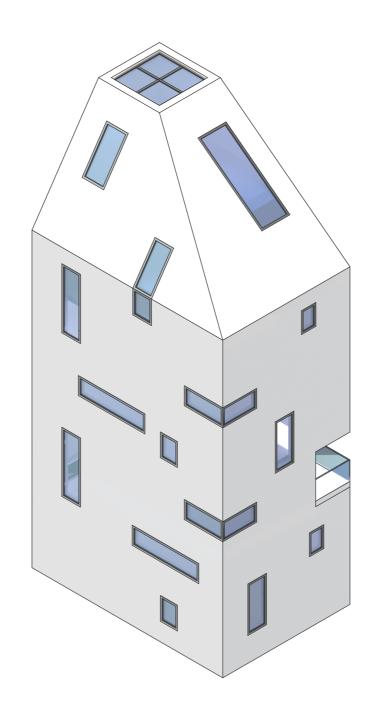


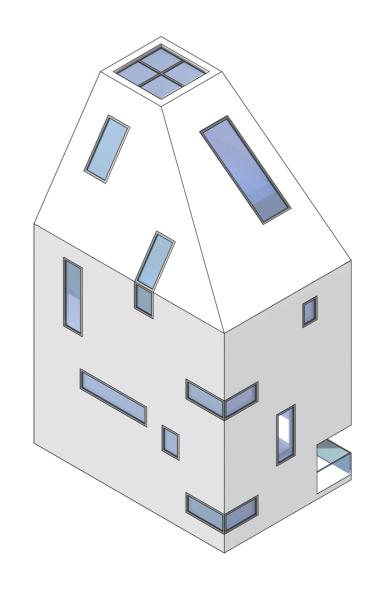
THE SIZE AND THE PLACEMENT OF THE MODULE TO ALLOW MORE LIGHT



THE ROOF OF THE MODULES GOT TITLED BY 53 DEGREES TO ALLOW MORE LIGHT







MODULE C MODULE B MODULE A

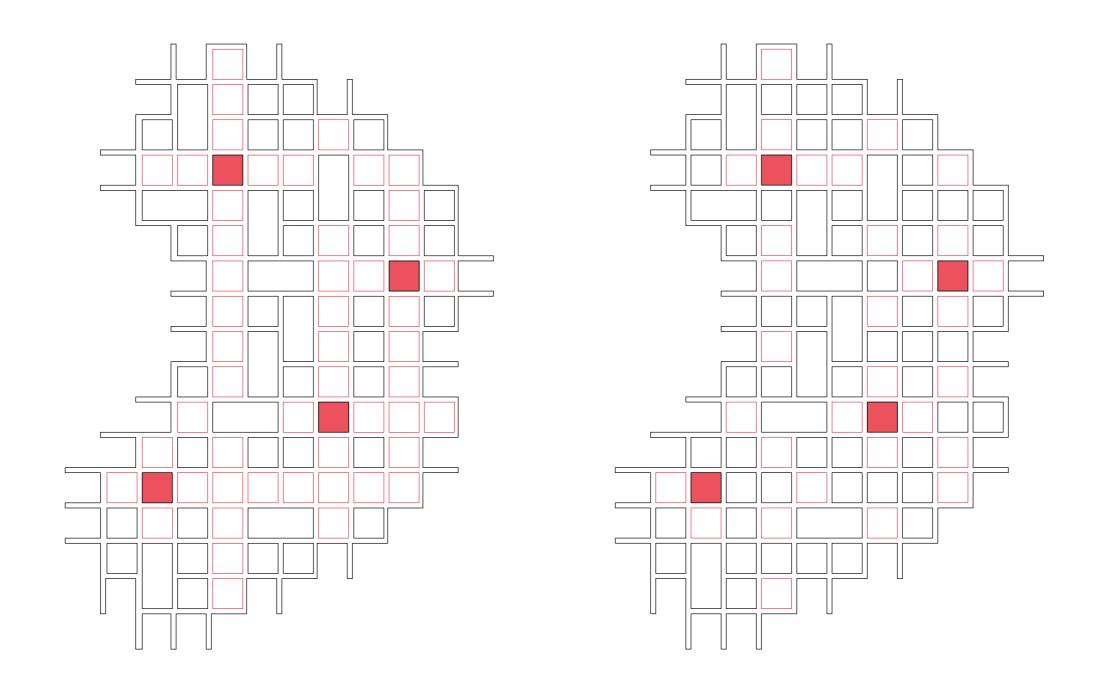


DIAGRAM SHOWING THE POSSIBILITIES AND DISTRIBUTION OF MODULE B & C

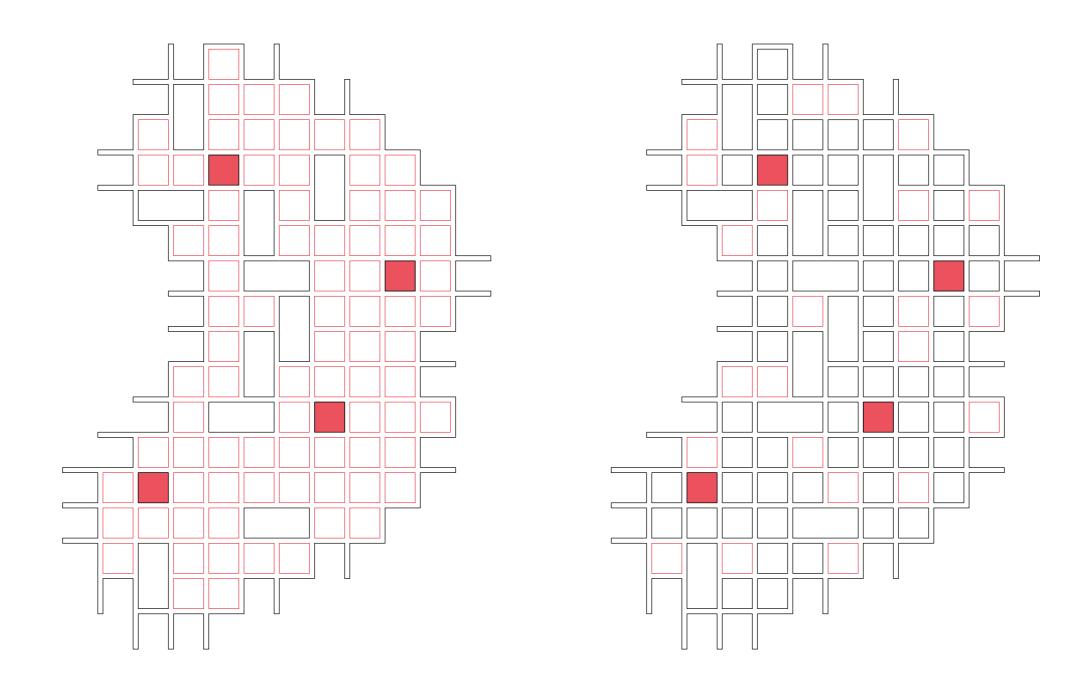
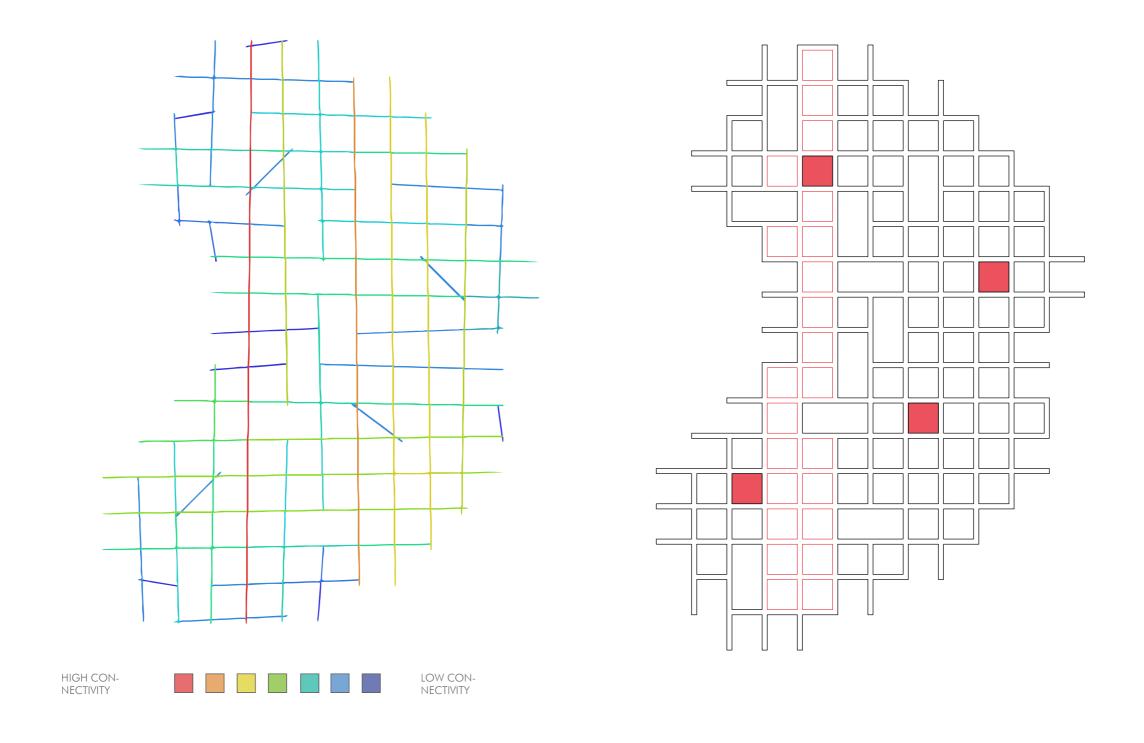
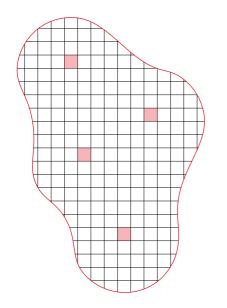


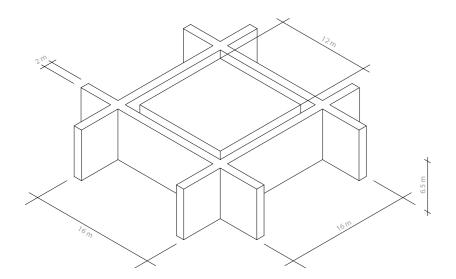
DIAGRAM SHOWING THE POSSIBILITIES AND DISTRIBUTION OF MODULE A



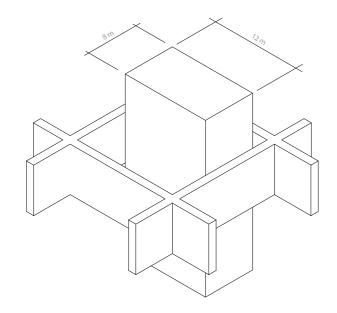
CONNECTIVY ANALYSIS HAVE BEEN MADE TO DETERMINE THE SOCIAL UNITS



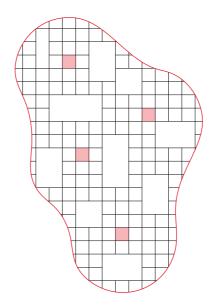
The size/ height/ rotation of the structure



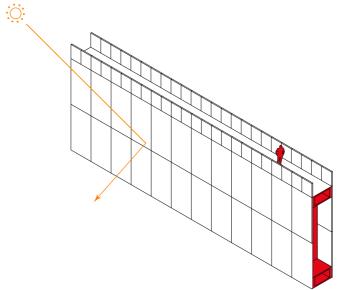
The thickness of the new structure



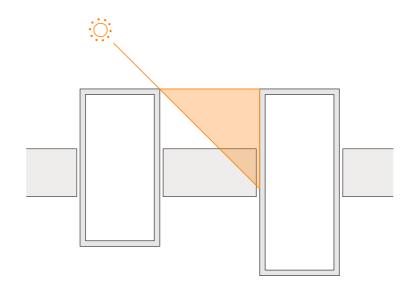
The size of the module



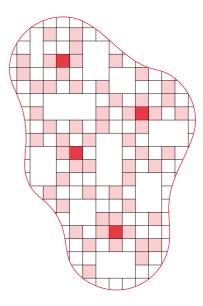
Having openings for the light demanding surfaces



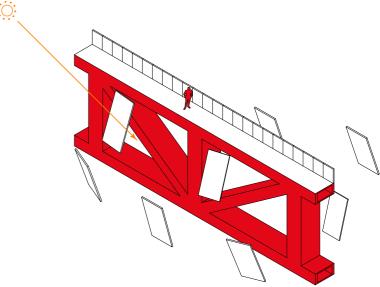
Materiality & color



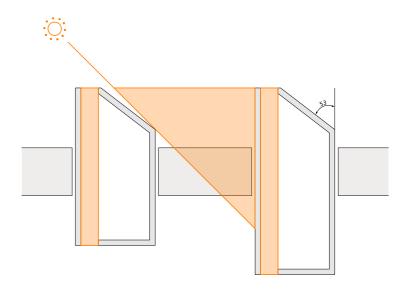
The placment in relation to each other



The distribution of the modules



Using a truss structure



The shape of the module

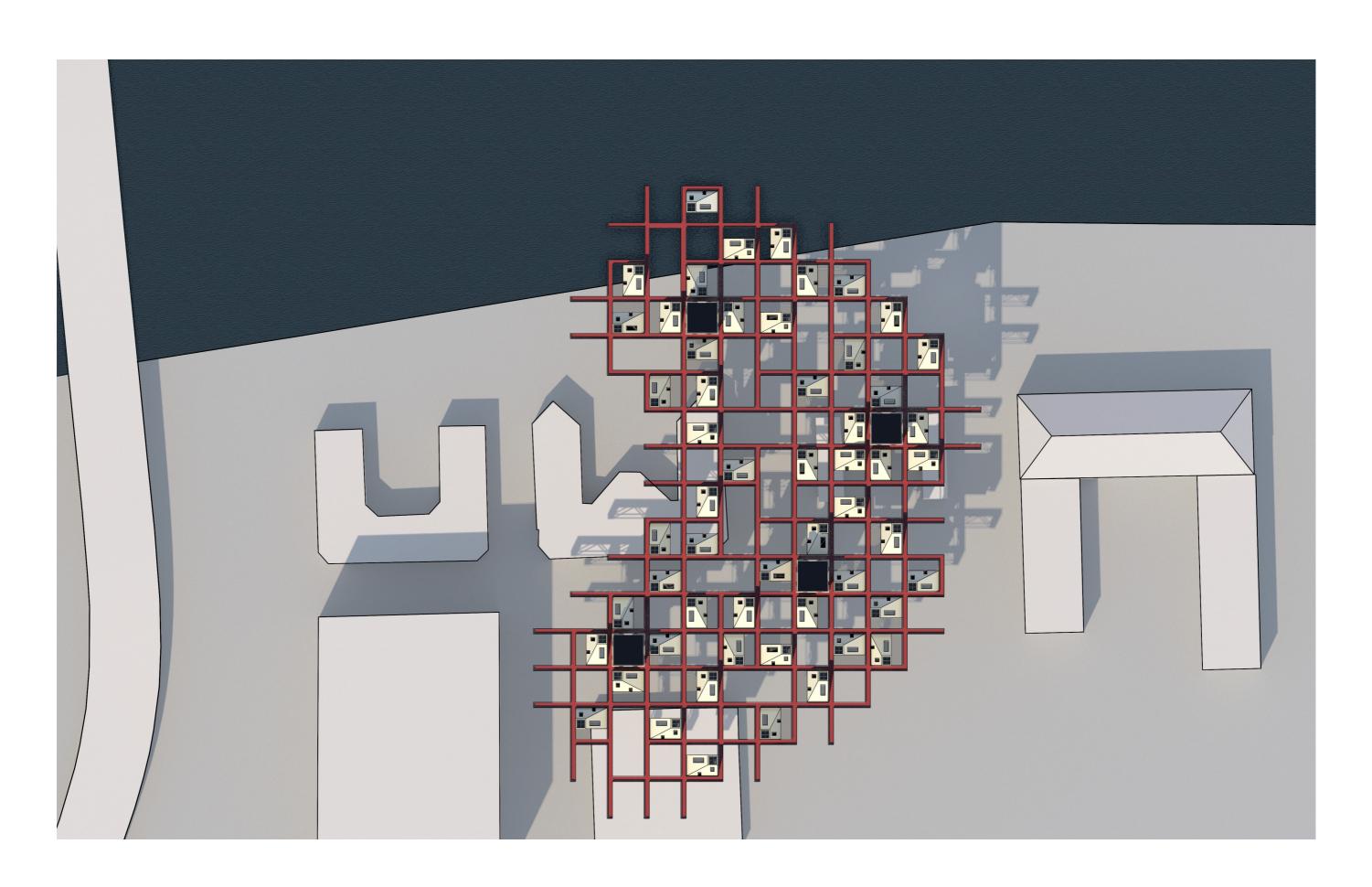
LIGHT ELEMENTS 47





SITE PLAN SHOWING THE PLACEMENT OF THE UPPERHOOD

SITE PLAN 1:8 000 49

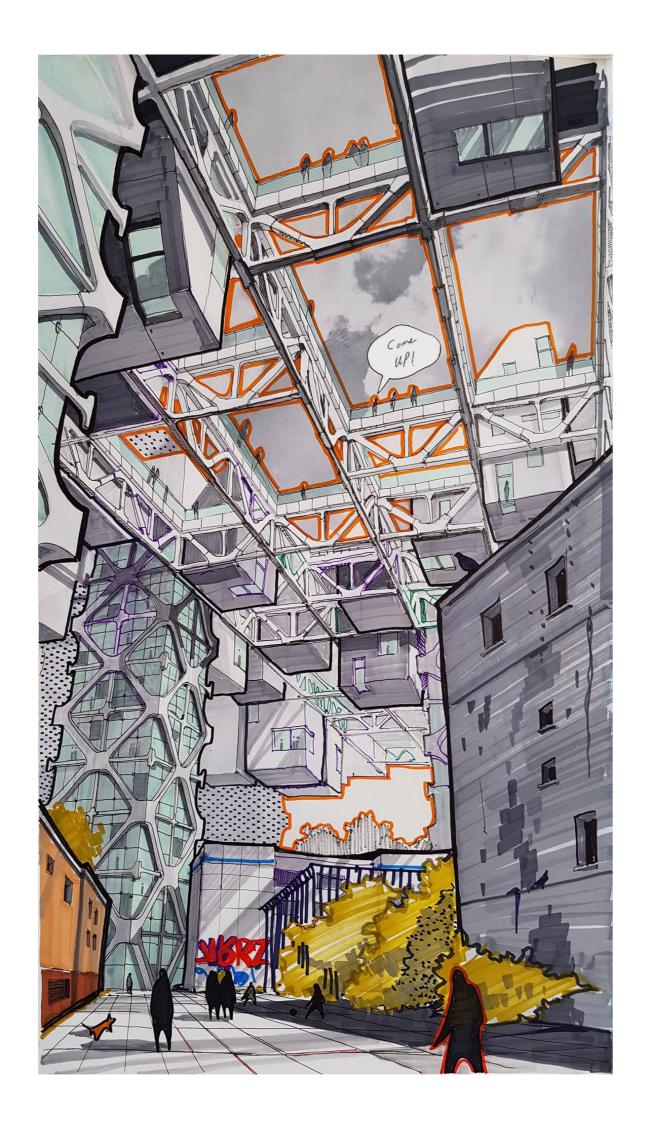


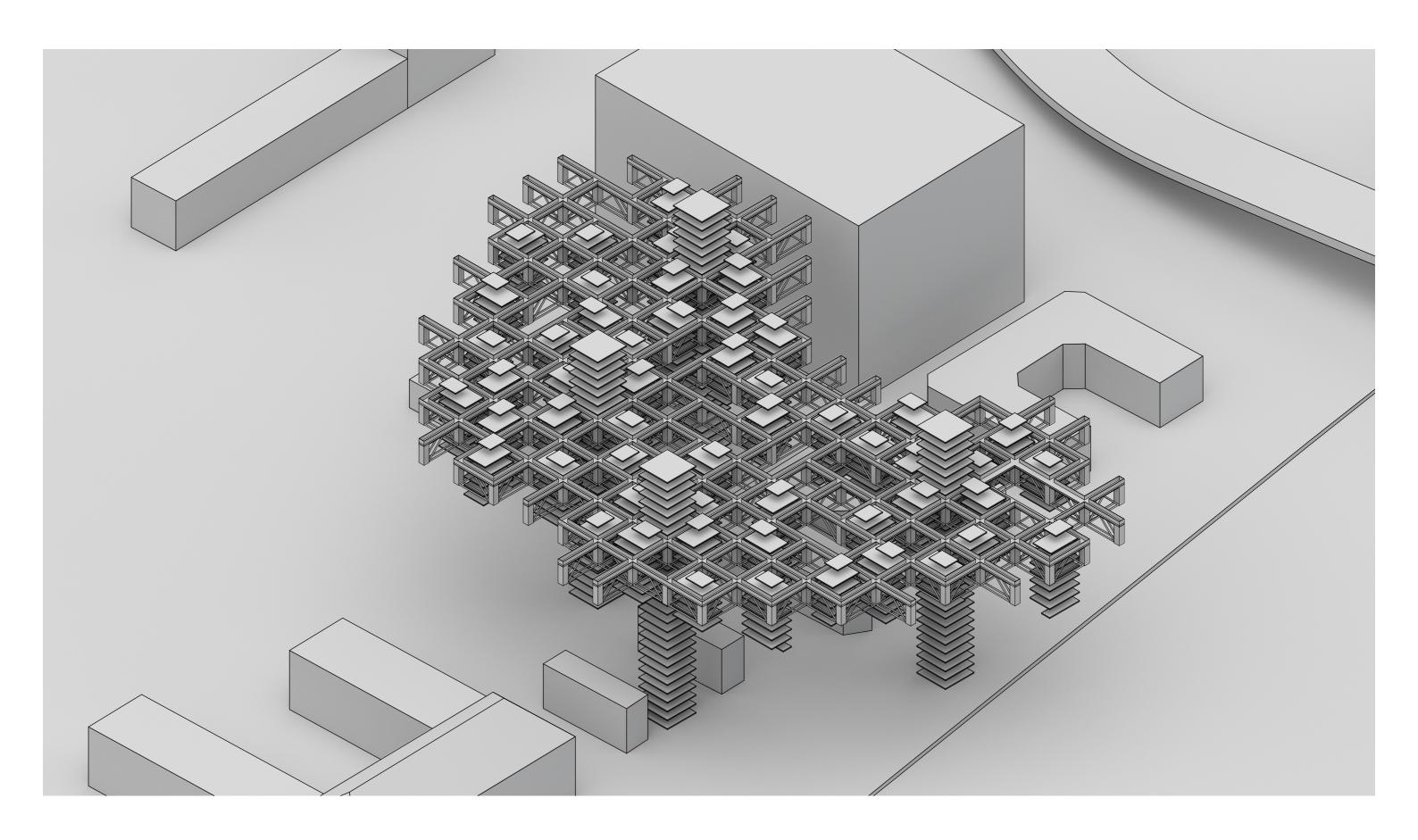
PLAN SHOWING UPPERHOOD WITH ITS SURROUNDINGS

PLAN 1:1 000 50



SECTION A-A 51





GFA: 37000 SQM