GROWING TOWERS

The project is located in Tel-Aviv-Jaffa between the lines of the historic railway and the future light rail route to Jaffa Road.

The design is aimed to combine the needs of agriculture, together with the spatial features of the specific area.

The combination of water, sun and space, are essential constituents in creating the project's plan. Therefore, long, narrow and transparent spaces are required to maximize the introduction of sunlight, water, indoor and outdoor spaces, that will allow crops to grow. Thus planning is expressed in horizontal and vertical spaces.

Additional inspirations and planning values in the project relate to a variety of typologies and uses such as: passages, multiple entrances, wandering spaces and high-rise constructions

The plan allows agricultural production for about a third of the inhabitants of the neighborhoods surrounding the project.

The project addressed the need to convert a future "technical" requirement, into a visual, social, sensual and cultural urban transformation, and thus changes the urban lifestyle as we know it.

ARRES & ST.

I THE DO. NO. 14 YOUR





WHY BRING AGRICULTURE INTO THE CITY



Global warming- brings with it natural disasters. Today, conventional agriculture is one of the factors contributing to this situation.

000

In contrast, urban agriculture lowers the temperature



Saving water- urban agriculture allows water saving, by using vertical hydroponic crops that saves up to 90% more water than conventional agriculture



Overpopulation- Israel's population is growing constantly. Vertical agriculture can be an effective means for saving land space, as well as preserving more natural habitat.



Shipping- Agricultural shipping costs are a major factor in the price of food. Urban agriculture, by reducing the need for long distance transportation, decreases shipping costs and carbon emissions.



Education- 90% of Israel's population is based in cities. Urban agriculture allows more people, including children, to be exposed to the process of growing and creating food, thereby improving the educational environment.



Covid-19- Agriculture in the urban environment creates green, open and safe spaces for interpersonal encounters, the importance of which is even greater in view of the current virus situation.



THE PROJECT'S AREA SITE

N

The area where the project is located has a productive and agricultural history. The beginning of the industry of Tel-Aviv-jafa was formed there and **today there are functions of trade and a variety of workshops.**

Having no clear-cut classifications and borders, the space has become unique, with a combination of diverse styles, populations and functions Encouraging one to wander around and discover its "treasures". As a result, there is an atmosphere of absence of definition and affiliation, allowing the realization of innovation and revolutionary initiatives.





THE ROOF PLAN

.Amzaleg St

Hatted St

SCHOOL

In buildings that are intended for preservation and are located in the agricultural valley a school is planned. Exposure to the process of growth and creation as well as learning and contributing to others, has a significant positive educational value. The school buildings face the agricultural valley and Challenge the border to the outside. The students at the school are responsible for the crops that the delimit the building and are intended for the public. There are integrated classrooms in the agricultural Valley.

Eilat St

MARKET

Next to Lewinsky Street, a market selling agricultural products is planned. The market has both regular stores and the option to set up a stand. Thus, even someone who grows privately can sell his produce.

Abar



AGRICULTURAL OBSERVATORY

On the northern side of the valley, an "agricultural observatory" is planned, the purpose of which is to permit vertical open agricultural spaces that **allow the public to** view the landscape of the agricultural valley

BEIT ROMANO ENTRANCE

From the direction of BEIT ROMANO the way in is through a passage. There is an industrial greenhouse next to a shared greenhouse on the first floor.

Jaffa Road

JAFFA ROAD

Jaffa Road

On Jaffa Road, a space for a composter is planned, a packing house and spaces for commerce.

Private-communal agricultural areas are planned on the first floor, in order to be exposed to the street and invite the residents who live in the area to take part in the agricultural activity. Agricultural involvement becomes a social activity, adding an important value to the encounter. Alongside the areas of private agriculture, are planned "OPEN SPACE" offices, so that workspaces are created in a green environment. According to research, this improves the productivity and mood of the worker.

The project aims to preserve the sense of discovery and wandering, by the multiple entrances and passages. Every passage is planned with a different "character" where the main passage leads to the internal yard, located next to the packaging building and industrial elevators, thereby enhancing the feeling of manufacturing which characterizes the street.

RESIDENTIAL PLAN

Two typical residential buildings can be seen through magnification.The first (01) is located next to the school. It is designed so that there are height differences between the apartments, **thus creating privacy, while still allowing neighborliness.**

Each apartment has a garden designed next to the kitchen. Each floor has a common greenhouse.

The greenhouses are located next to an industrial greenhouse so it can be rented if not in use.

Another type of residence (02) shows "greenhouse parasites". The parasites are external and are located on the openings of the building **so it is possible to add small greenhouses to existing buildings as well.**











02



