WHITE CITY
GREEN CITY
Sustainable renovation of modern monuments
Sir Patrick Geddes

- a Garden city model adapted to the climate of Tel Aviv
- Cultural and educational elements routed in the city plan
1- identify the coast line as an important element in the city: climate, leisure and commerce
2- hierarchy of traffic
main movement = north - south
secondary roads = west - east
homeways - no longer than 500m
3- vegetation
- boulevards
- public gardens per block
- Building line set back 5m from the street - an area designated for a garden
- The footprint of the building can only cover up to a third of the plot leaving also enough area for a back garden for some fruit trees and herbs.
4- culture and education as key elements in the city.
- theatre, concert hall
- library, museum
- leisure, cafe, hotel, cinema
location within the city
- A complex for the actors of the Theatre Group.
- Each member was entitled half of a plot
- All buildings built in the late 1930’s.
- architects: Awerbuch and Rechter

total area 4800m²
11 buildings, av. plot size 435m²
“Geddes Plan area A”
gross floor space area: 6300m²
Blue = monumental status
current situation
- additional floors
- closed balconies
programme
- office (~120 m²)
- rehearsal area
- demo performance area (~100 seats)
- presentation theatre (~50 seats)
- cafe
interventions in the back garden

ground floor level
changed
1- facade changes
2- car use
3- density and volume
4- climate installations
5- apartment size
existing conditions

1- natural ventilation concept

2- shading of openings with balconies

3- vegetation

4- roof terrace, for shared facilities
introducing new systems
- pv energy
- earth-air heat exchange for ventilation
<table>
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<th>Security</th>
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<td>Natural ventilation</td>
<td>improved air quality and reduced temp.</td>
<td>distance between buildings</td>
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<td>building scale</td>
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| Solar heat gain | lime-based plaster | stairwells, columns | | |}
| Shading | shading on street level | orientation of buildings | balconies, shading elements | vegetation - trees |
| Electricity | pv panels | hot water installations | | EAHE |
| Water | watering trees | front and back gardens | | |
| Grey water | front gardens, connection between apartment and street | | | |
| Rain water | changeable openings on outer walls | | | |