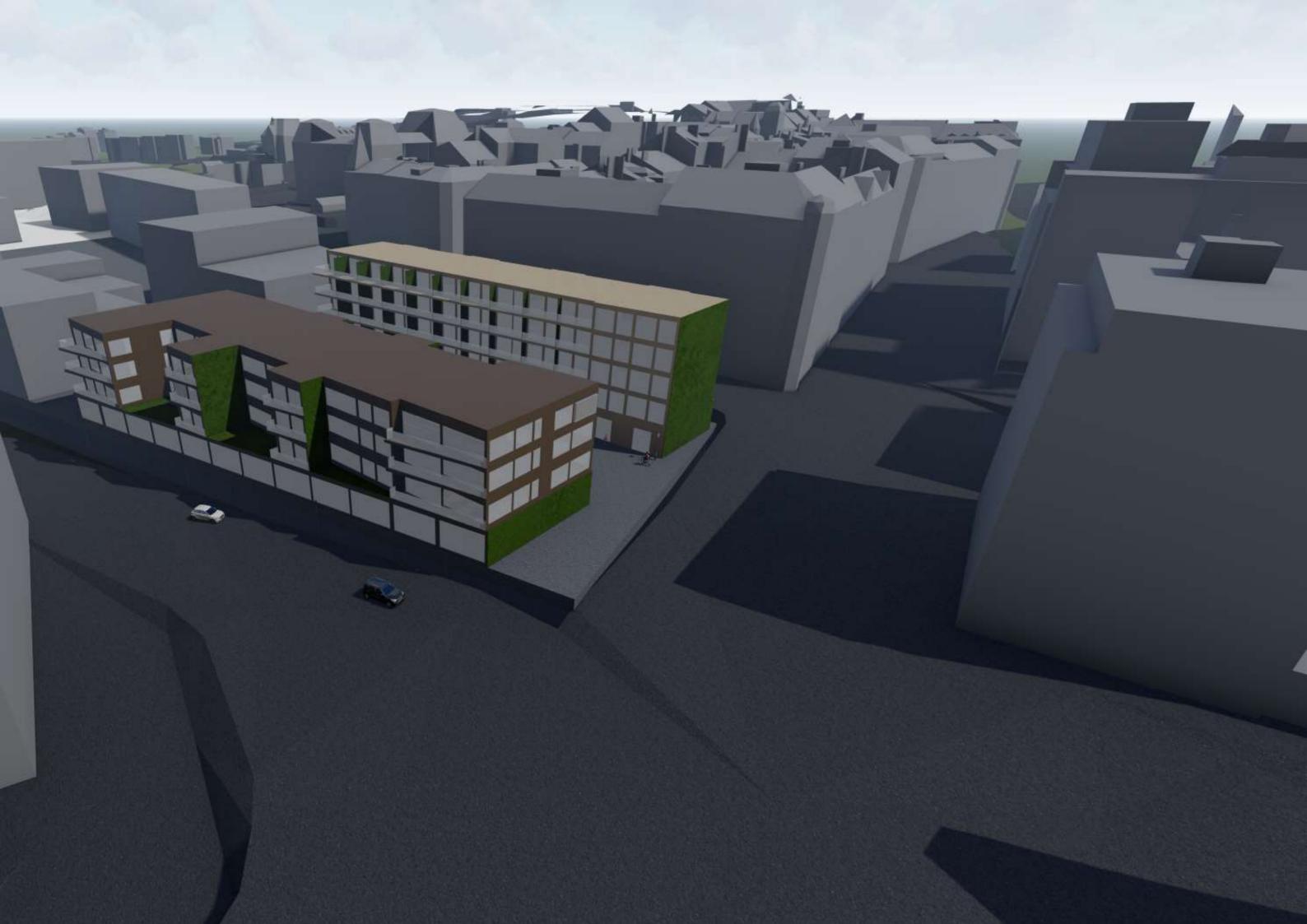
CITY ABOVE THE RAILS: HOUSING



Atelier Achten-Pavlíček-Nováková, winter semester 2020-2021 Faculty of Architecture Czech Technical University of Prague



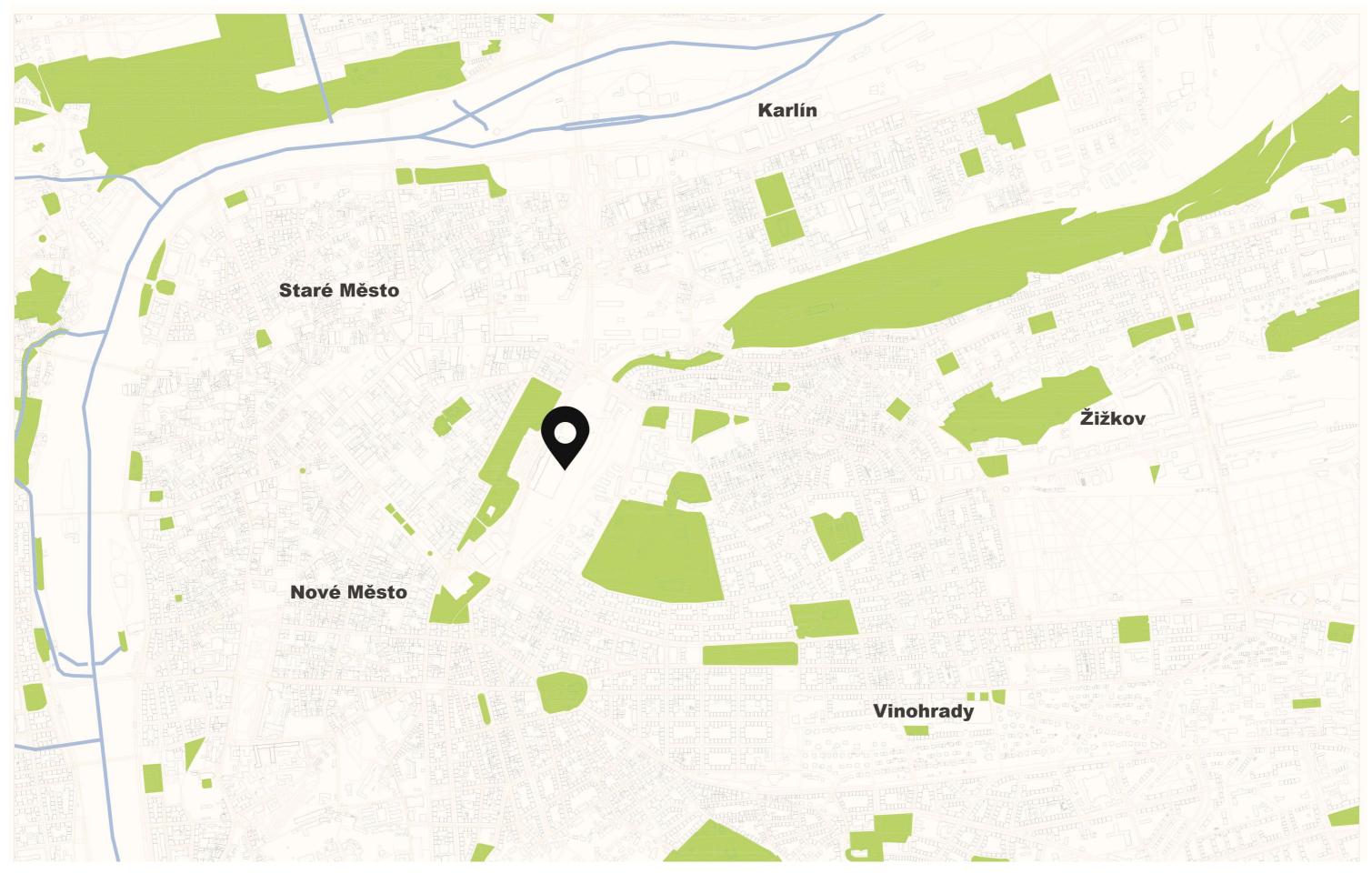


DESCRIPTION OF THE PROJECT

This project is about a whole new concept introduced to Czech Republic which is the construction and conception of a new « city » above the railway station of Prague hlavní nádraží. This new city will include hotels, shopping center, restauration, green areas, offices and housing which I'm focusing on.

My idea for this project is to break the rules of society levels by mixing both social and regular housing in the same city.

This innovative city will also be ecological by minimizing the usage of cars, choosing eco-friendly materials and making the maximum of green areas as possible.



LOCATION



CURRENT SITUATION

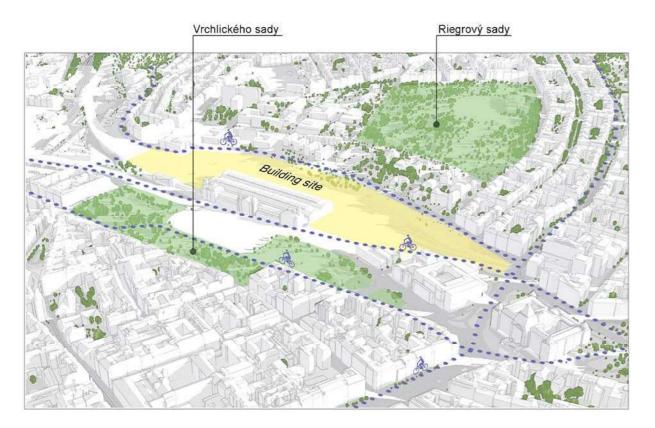
This picture represents the current situation of the Praha hlavní nádraží.

Located in Praha 1, the station was built on 1871 and had been rebuilt and extended during these years. The area we are working on is the free

space above the railways and the total area is about 100 000 m2, aproximately.

The free area will be covered by a platform covering the whole area from side to side allowing to create a variety of buildings.

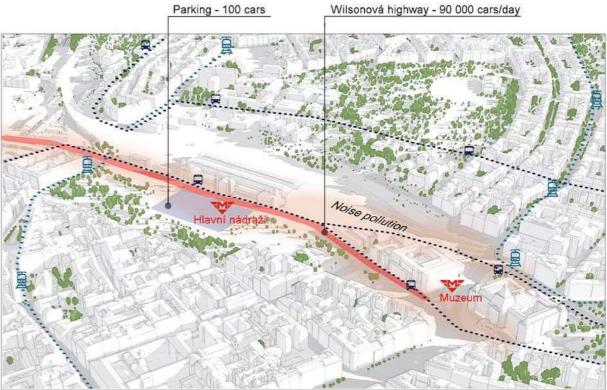
ANALYSIS OF THE TERRITORY



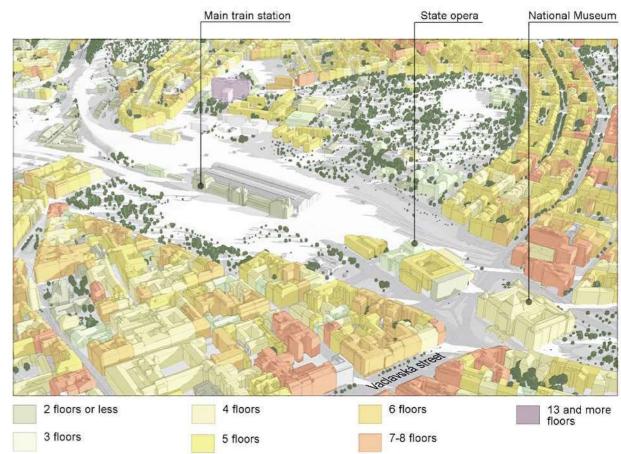
GREEN AREAS AND CYCLE ROUTES

University of economics



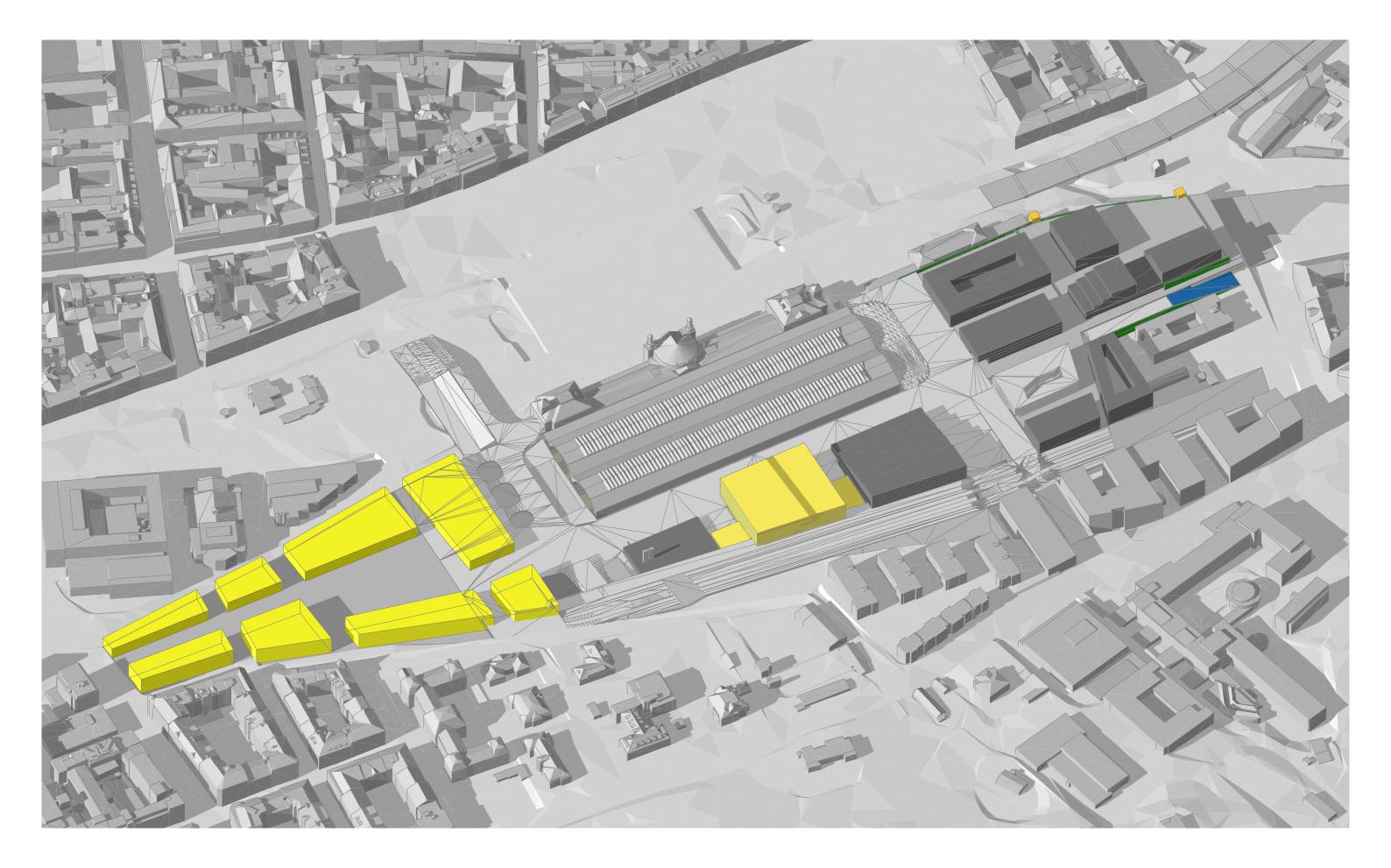


TRANSPORT SITUATION



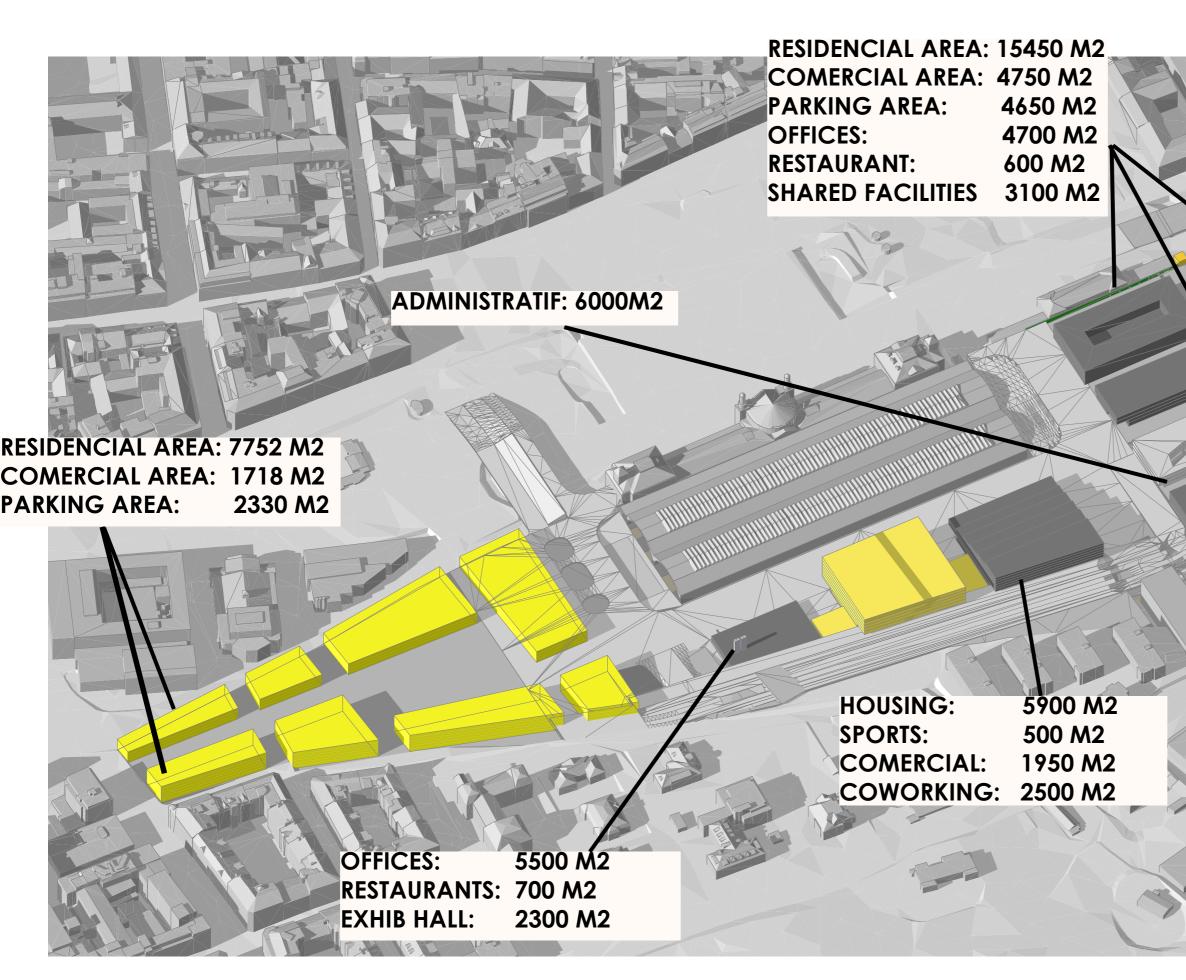
HIGHT AND HISTORY

FUNCTIONS

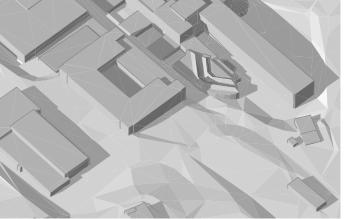


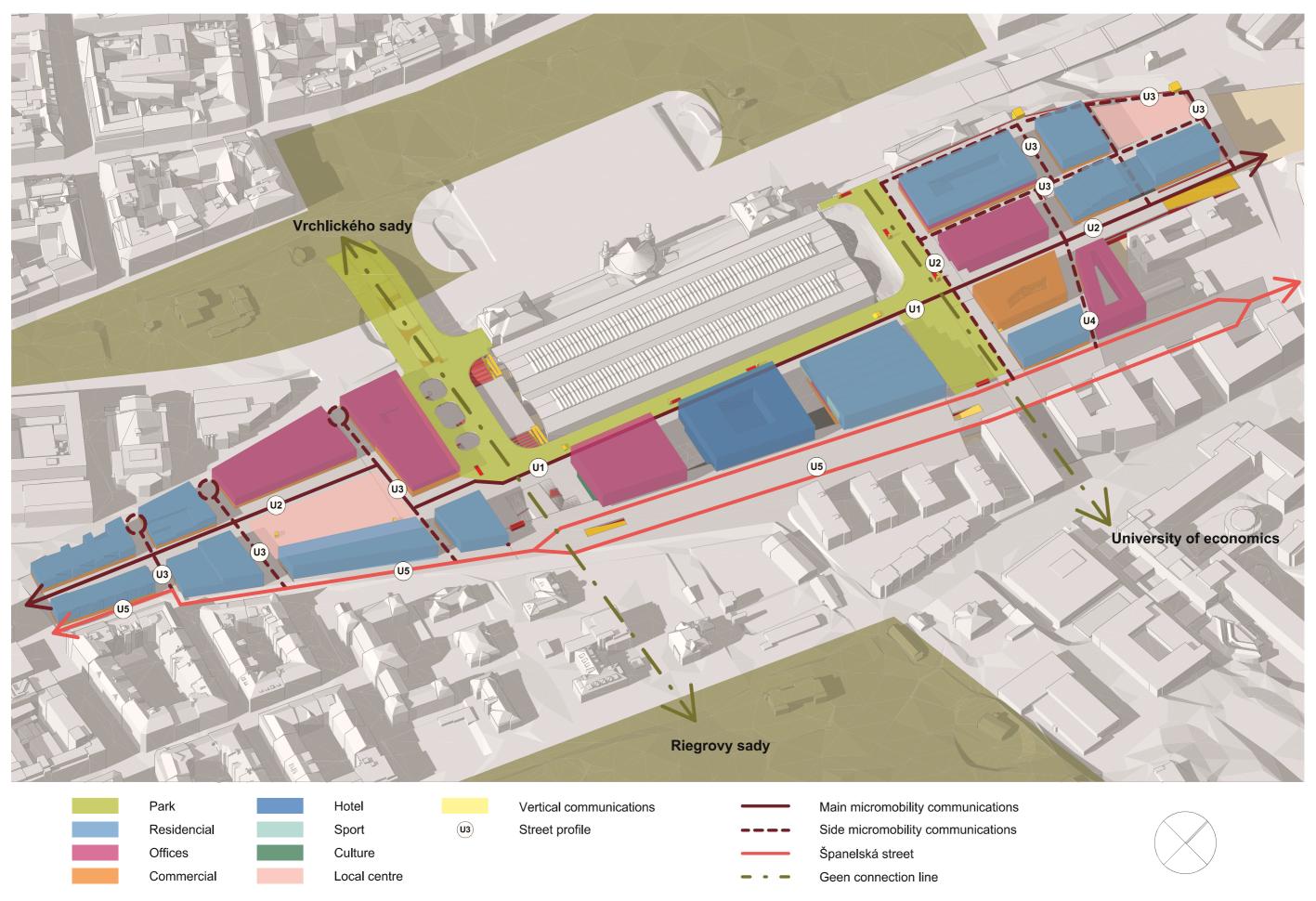
MASTERPLAN FLOOR

TECHNICAL INFORMATION



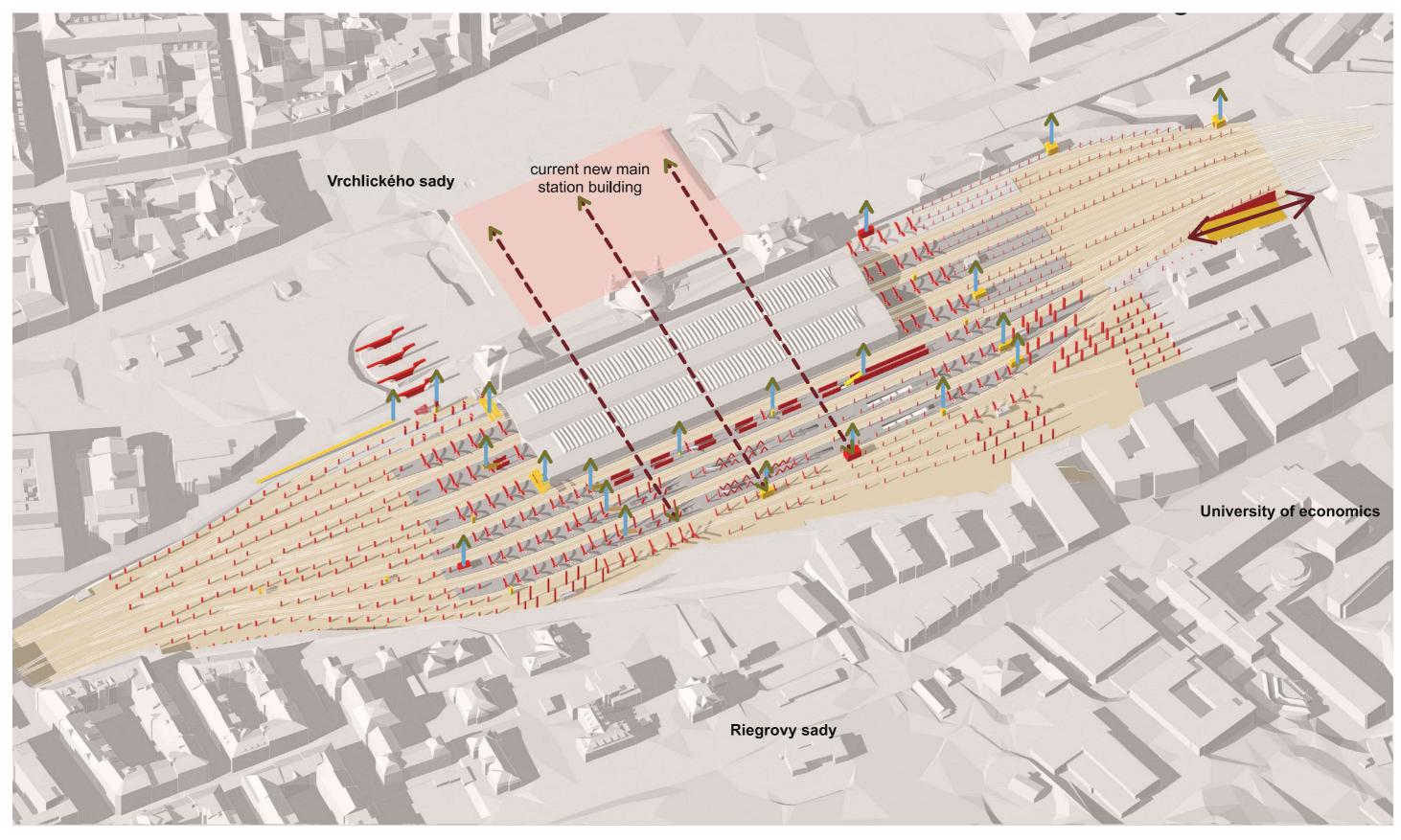






ANALYSIS OF THE PLATFORM

ANALYSIS OF THE PARKING FLOOR



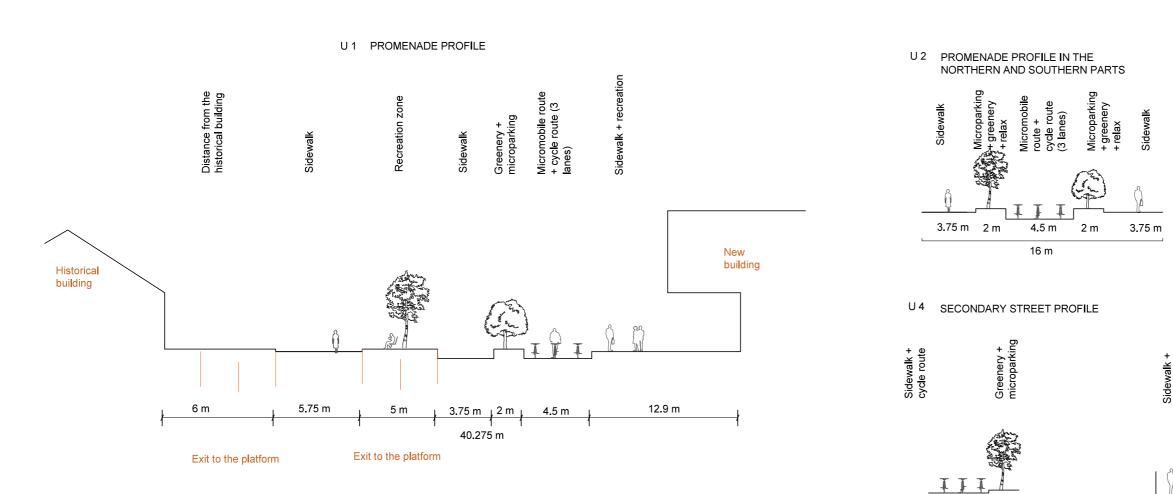


communications to parking level

Main station underpasses

Main micromobility communications (ramp leading to the higher floor)





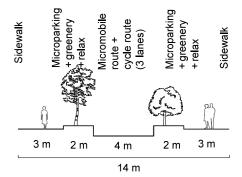
4 m

6 m

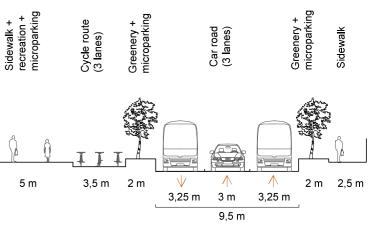
2 m

URBAN PROFIL ANALYSIS





U 5 PROFILE OF THE STREET ŠPANELSKÁ





RESIDENTIAL

GROUNDFLOOR 1:500





FLOOR PLAN 1:500



PARKING PLAN 1:500



SECTIONS 1:200



SOCIAL HOUSING

TECHNICAL INFORMATION

TOTAL RESIDENCIAL AREA: 3918 M2TOTAL COMERCIAL AREA: 907 M2TOTAL PARKING AREA: 972 M2

SOCIAL HOUSING 1:200



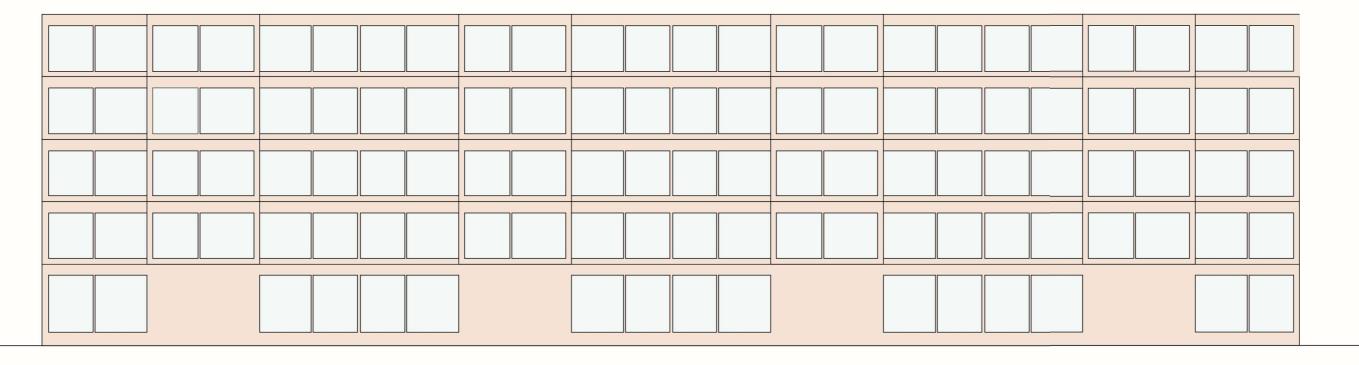


Comercial use
 Entrance to the building
 Bicycle storage

Ground floor

Floor plan

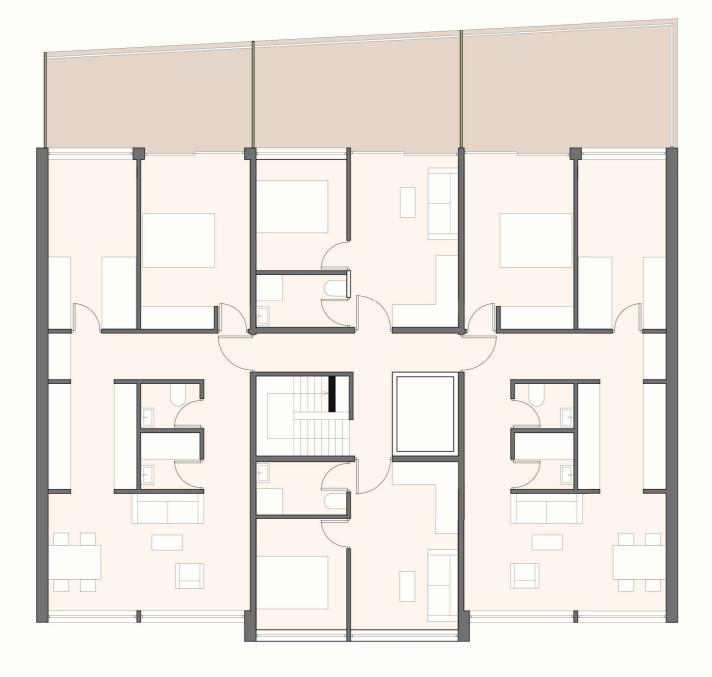
SOCIAL HOUSING 1:200







TYPOLOGIES 1:100



The building is composed by this block that repeats 4 times creating a rythm and a module that makes it more easy to work with the structure. Each block is composed by 2 typologies of apartments and they create a certain simetry.

The element for vertical communication is located in the center.

- Studio area:

- 2 ppl apartment area: 65 m2

25,5 m2

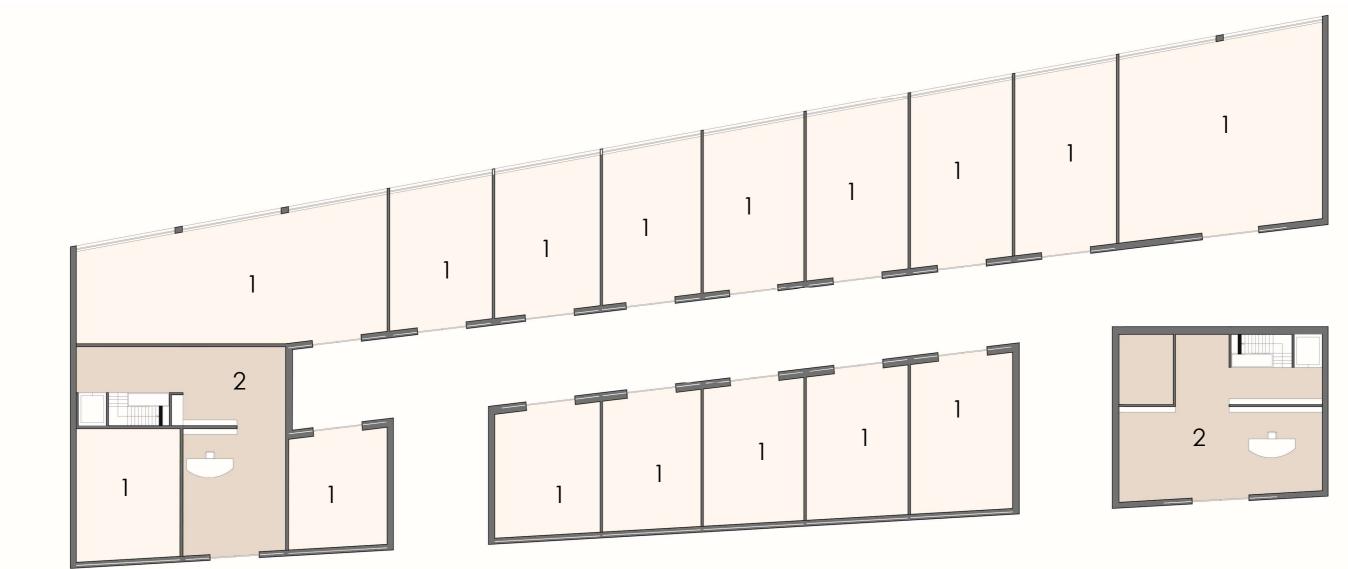
(areas without balcony)



TECHNICAL INFORMATION

TOTAL RESIDENCIAL AREA: 3834 M2TOTAL COMERCIAL AREA: 810 M2TOTAL PARKING AREA: 1360 M2

RESIDENTIAL BUILDING 1:200



1: Comercial use

2: Entrance to the building

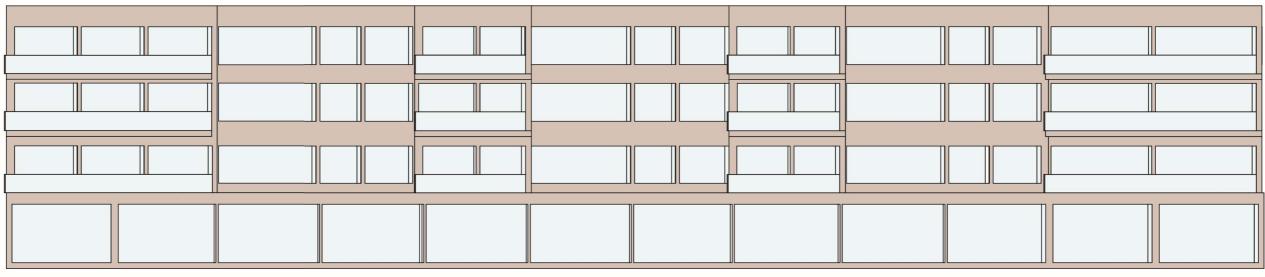
Ground floor

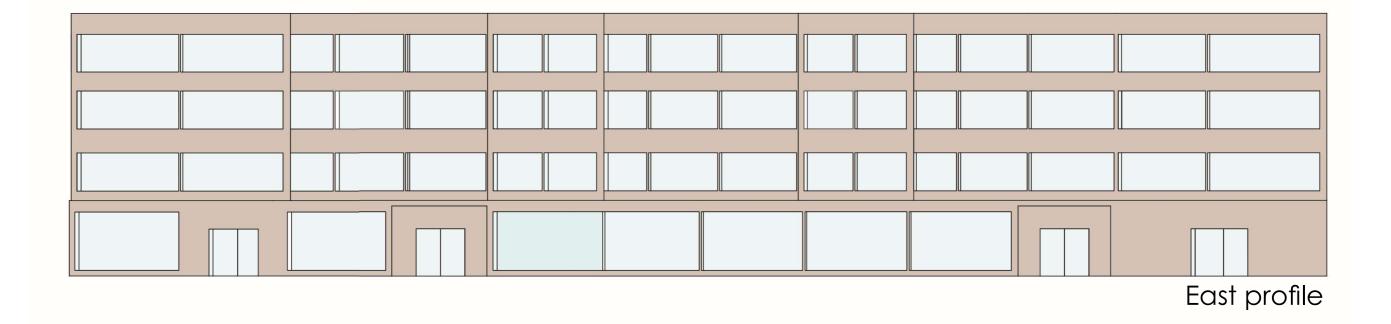
RESIDENTIAL BUILDING 1:200



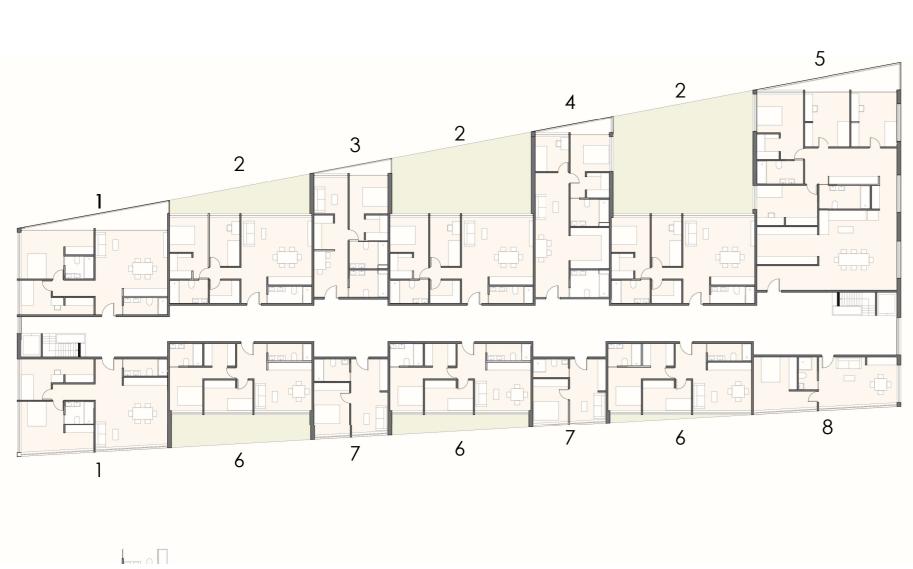
Floor plan

RESIDENTIAL BUILDING 1:200





West profile



The concept of this building is completely different from the social housing project.

Since the type of housing is very different, I decided to create a contrast also in the rythm.

This building does follow a rhytm but it's not as obvious as the last one. Also the diversity of typologies is wider than the precedent.

We can see that some typologies are repeated in order to create an order still.

```
-Type 1: 71 m2
-Type 2: 75 m2
-Type 3: 50 m2
```

- -Type 4: 68 m2
- -Type 5: 160 m2
- -Type 6: 60 m2
- -Type 7: 32 m2
- -Type 8: 40 m2

TYPOLOGIES 1:100

ECOLOGICAL AFFORDABLE **BEST SOLUTION**

MATERIALS





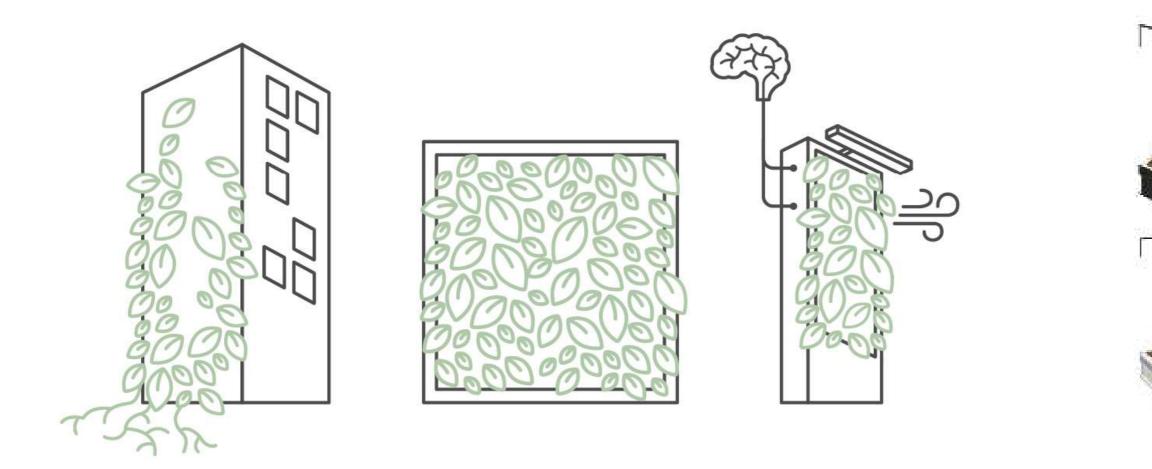
CONCRETE

MATERIALS

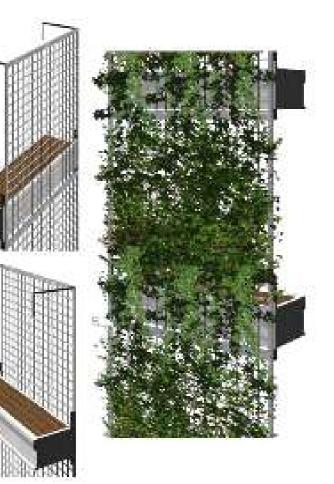
CORK



VEGETAL WALLS: In addition to the visual and biophilic benefits of all green walls, smart and active green walls can feature natural air purification and humidification thanks to the combination of enhanced air circulation, specialized growth medium, and technology.



MATERIALS





MATERIALS

KENZA HIDDAS