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# SAWH METHOD 2024

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**Archip**

Prague, CZ

## **"Empty Houses"**

*Method description by Jakub Kopecky, Archip*

"A brief that combines several unknowns right at the beginning requires a proven methodological approach.

Firstly, it is necessary to define the program for the site, which is based on a detailed analysis of the surroundings and the potential of the existing building. This means not only its technical parameters, but above all its layout.

We will visit the site, make photos of the building, get documents from publicly available sources concerning its history and also property rights. Thanks to our cooperation with the [prazdnedomu.cz](http://prazdnedomu.cz) platform, we have obtained the necessary documents for most of the buildings from their database.

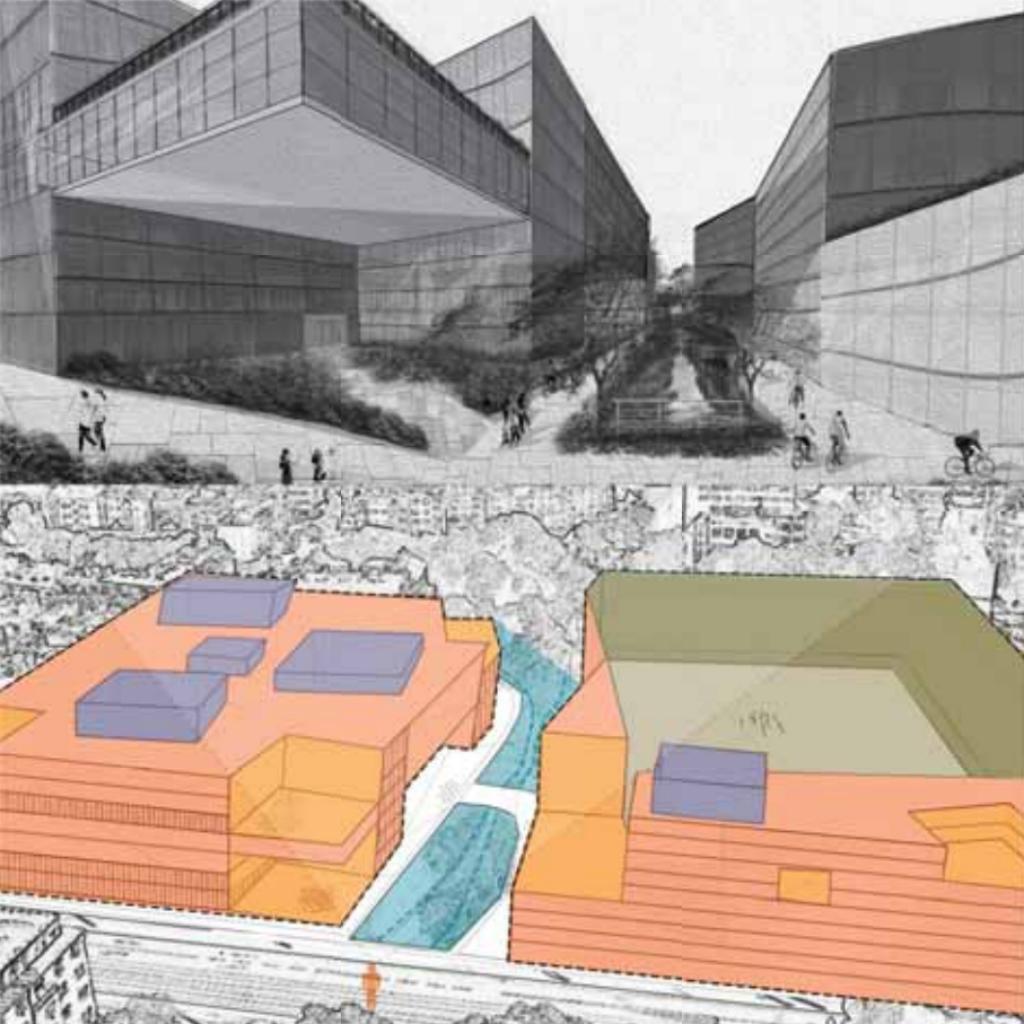
After defining the programme, including its space requirements and the capacity of the existing building, we obtain the basis for verifying whether the programme requires building expansion. If not, it is necessary to revise the selected program and possibly add to it so that it can fill the entire existing building.

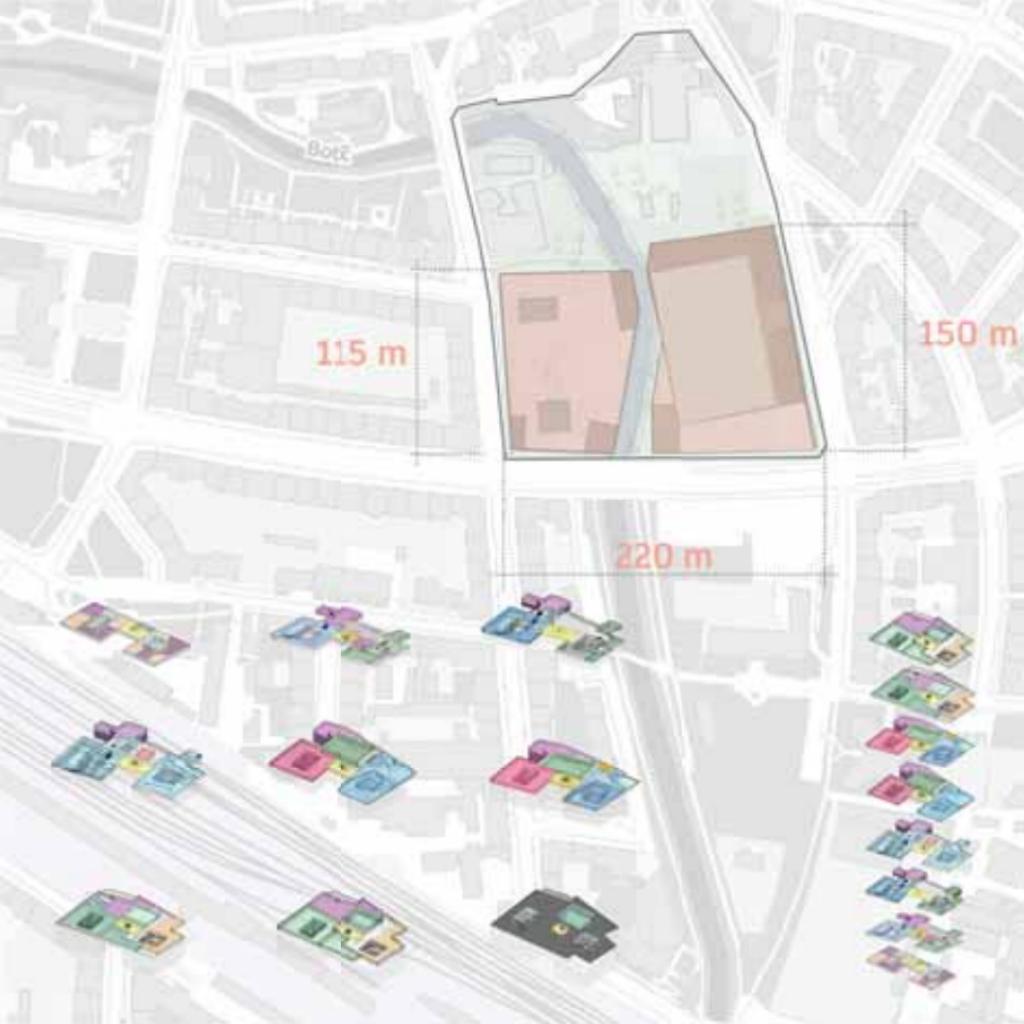
Because of the academic character of the task, we are mainly focused on the way of thinking, which makes it possible to avoid excessive adherence to exact parameters such as some technical solutions or financial limits.

In the context of the societal debate on sustainability, we believe that the reuse of existing buildings is one of the fundamental pillars of a sustainable approach to construction. Unfortunately, this still seems to be a rather exceptional approach."

*(edited for length by JW, SAWH)*





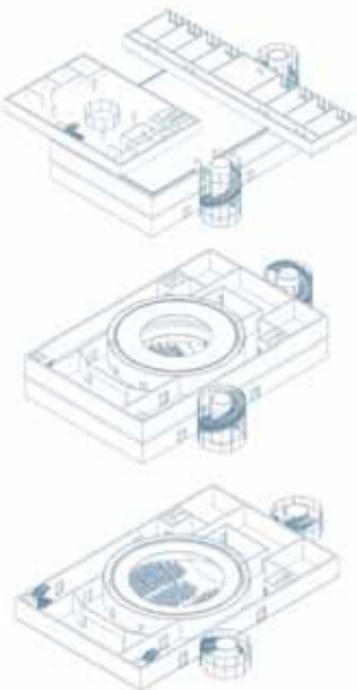
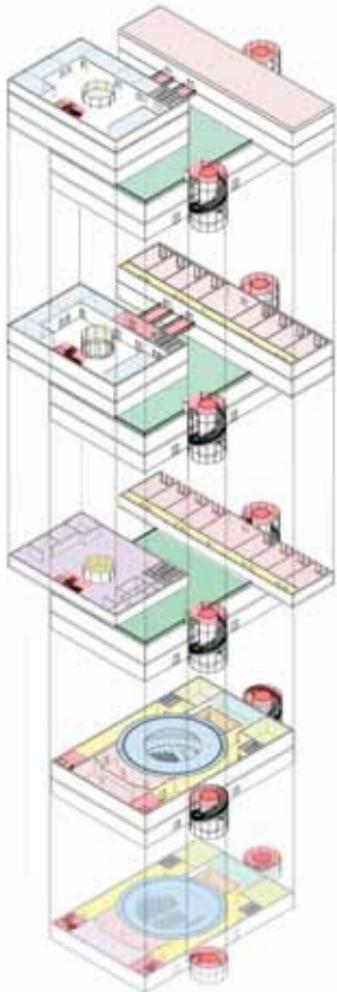


115 m

150 m

220 m







U Slavie

## Site Plan

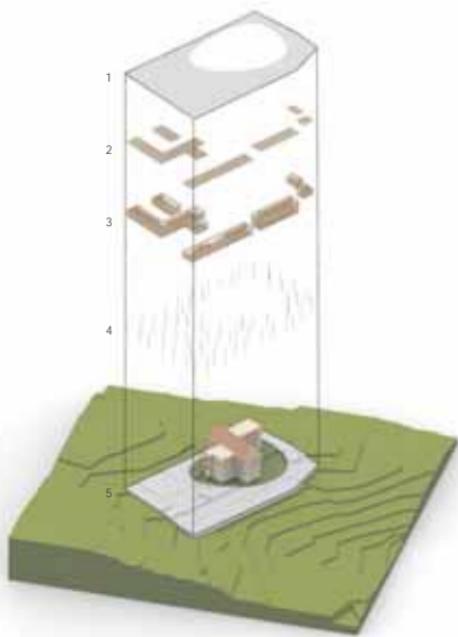
1. Private clinic
2. Wellness
3. Retreat Center
4. Accommodation facilities
5. Restaurant
6. Meditation pavilion
7. Tea house



1:500

# Exploded Axonometry

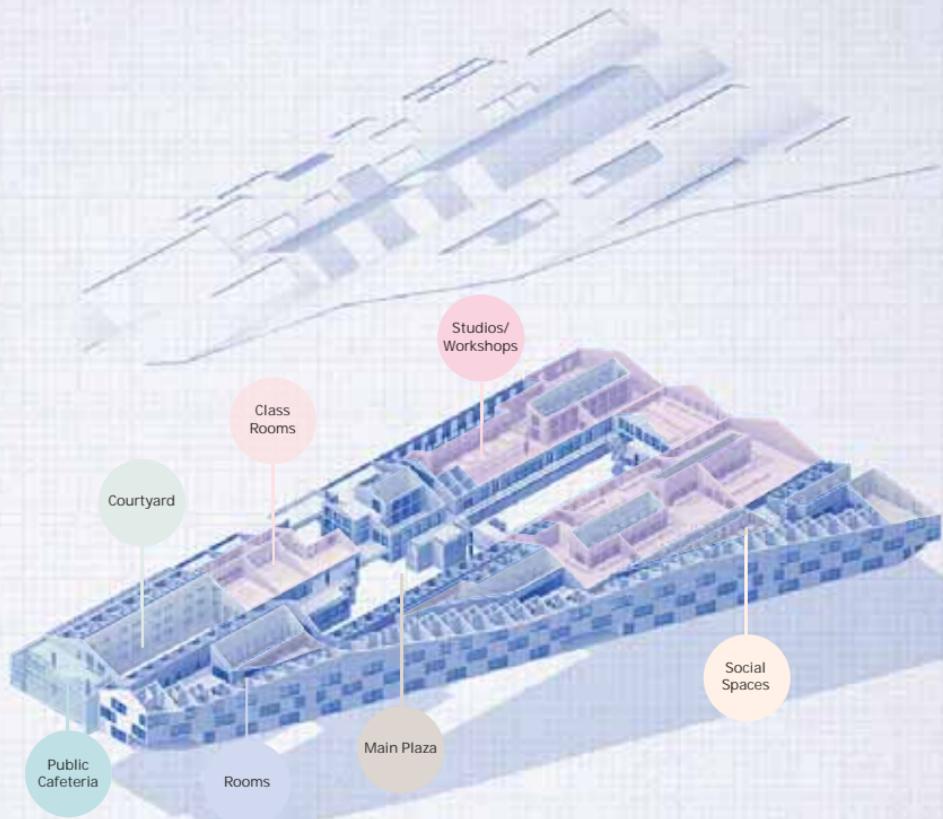
1. Concrete
2. Softwood | Fir
3. Softwood | Fir (Vertical Boarding)
4. Concrete Columns
5. Concrete



# Atmosphere

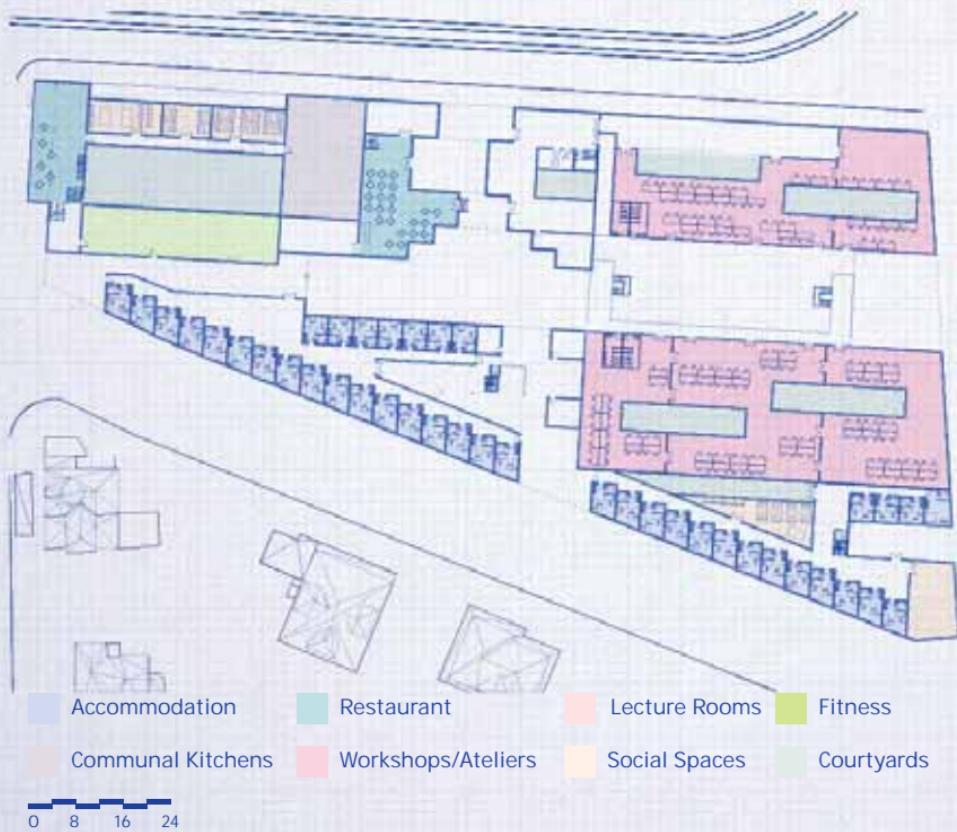




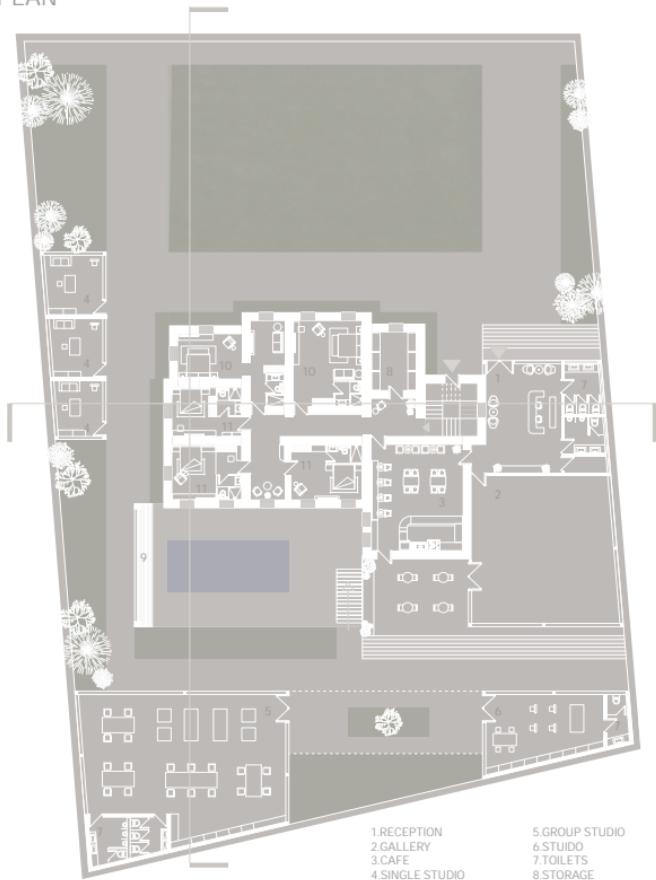


Area Diagram

# Proposed Ground Floor



## GROUND PLAN



SCALE - 1:250

LONG SECTION



SCALE - 1:200

VISUALIZATION



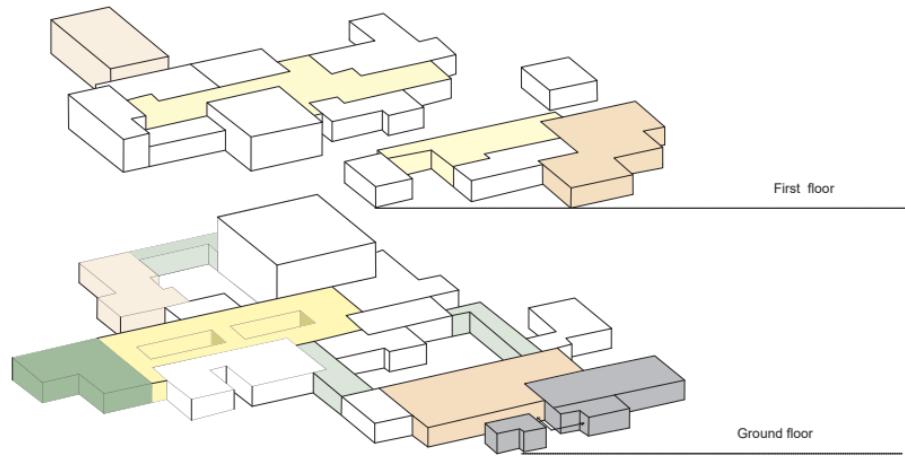












■ Connection

■ Cafe

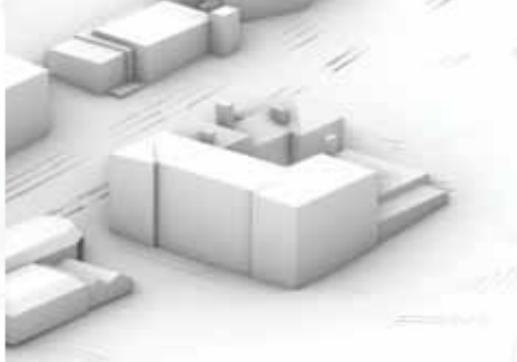
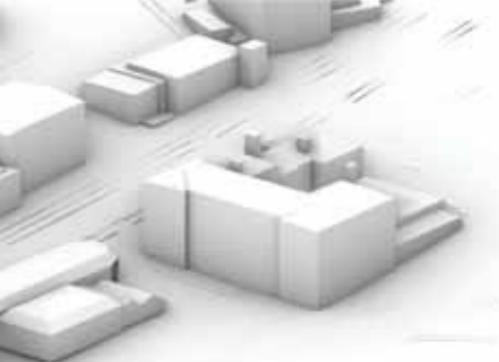
■ Offices- entrance

■ Classroomss

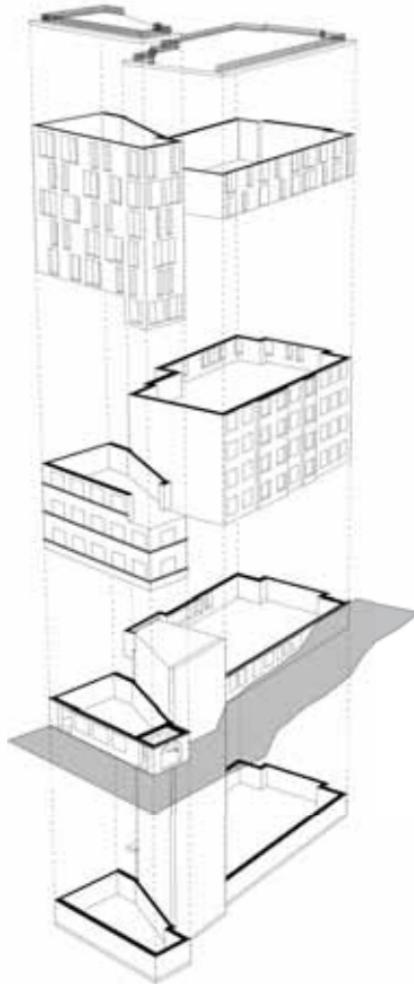
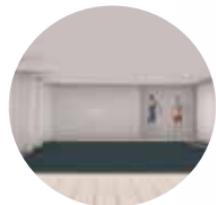
■ Core

■ Open Gallery - Dining area

■ Library



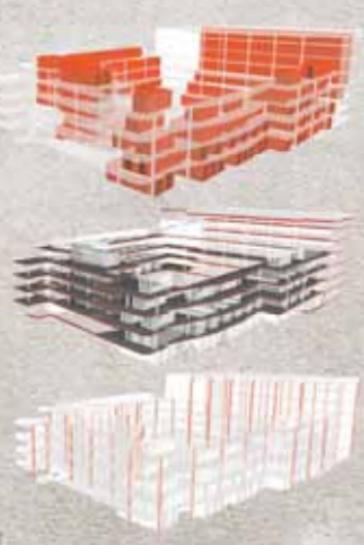








## CONCEPT



SHIPPING CONTAINERS  
-AFFORDABLE AND MODULAR  
SOLUTION FOR UNITS  
(INSULATED)



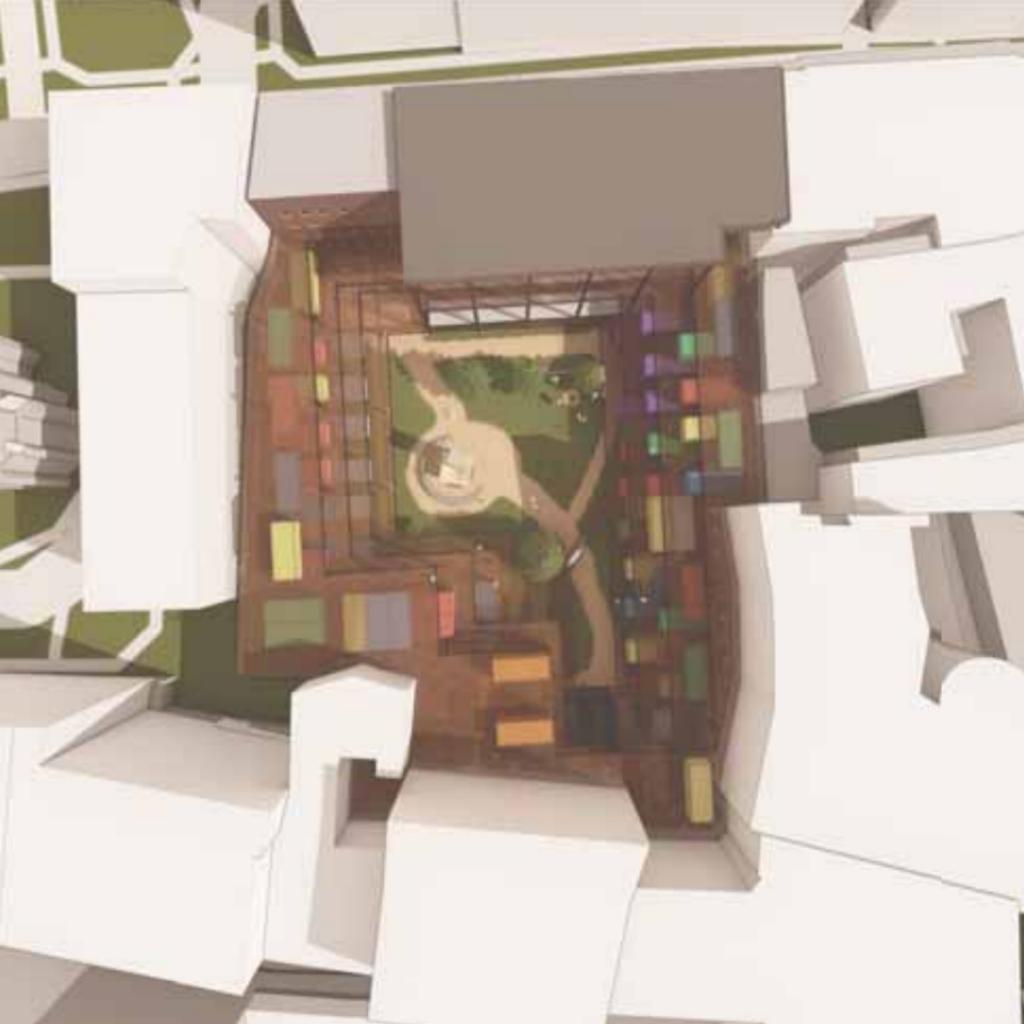
PERFORATED CORTEN FLOORS  
-TO CREATE CORRIDORS  
AROUND ALL UNITS AND TO  
KEEP THE STRUCTURE LIGHTS



COLUMN SYSTEM  
-KEEPING ORDER IN NEW ONE  
THROUGH FOLLOWING  
ALREADY FUNCTIONING SYSTEM

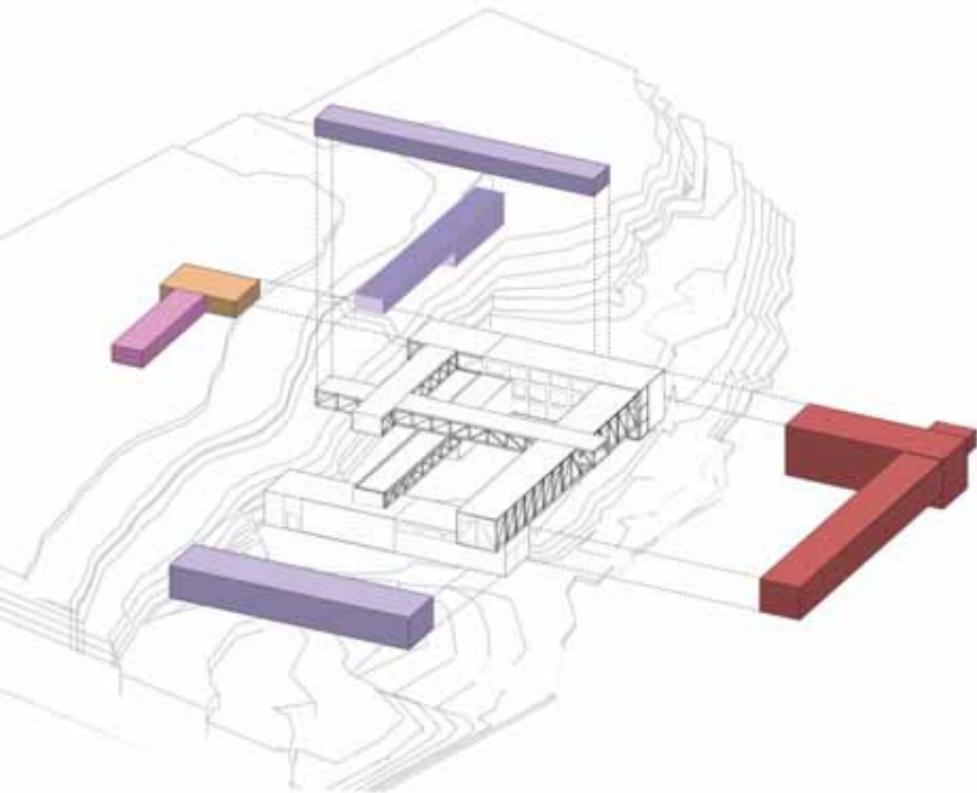


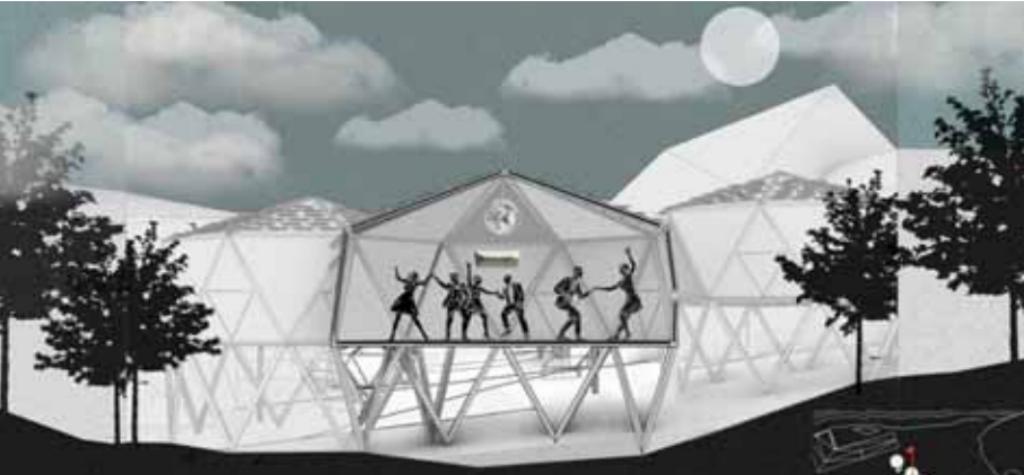
COURTYARD  
-CURRENTLY USED AS PARKING,  
WHICH COULD BE  
MOVED TO TWO UNDER-  
GROUND FLOORS

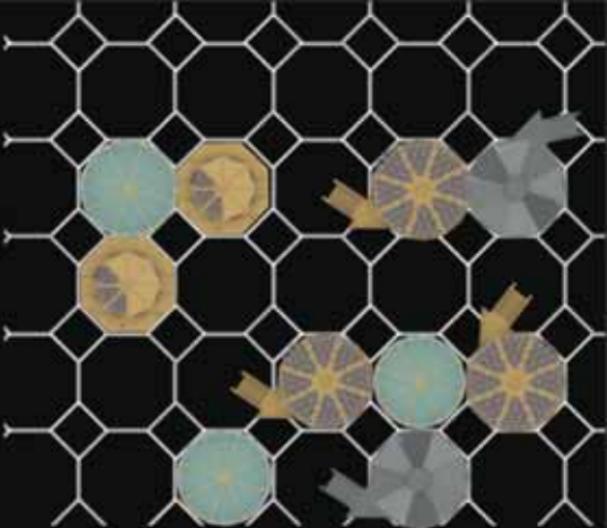
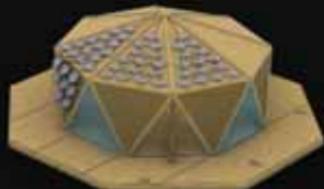
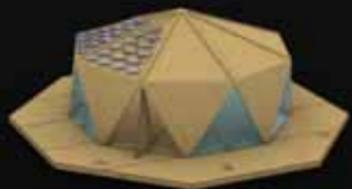












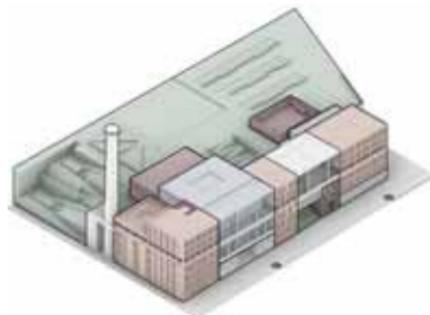




KOTELNA RESIDENCE



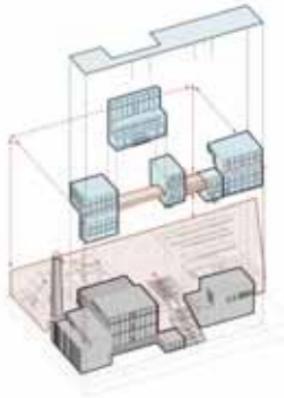
## Functional zoning



- Residential Part
- Study Area
- Public Space | Commercial Area
- Technical Area
- Sport Area
- Connection + Green Space

11

## Concept



- Keep the existing walls and redesign structure for new functions
- Add new structures, taking into account the height restrictions and the street line
- Accessible connection of the street to the upper part of the plot

Master plan Scale 1:500



## Nádražní Oasis: A Multi-Functional Complex

*"Live, Connect, Create. Your urban oasis awaits."*

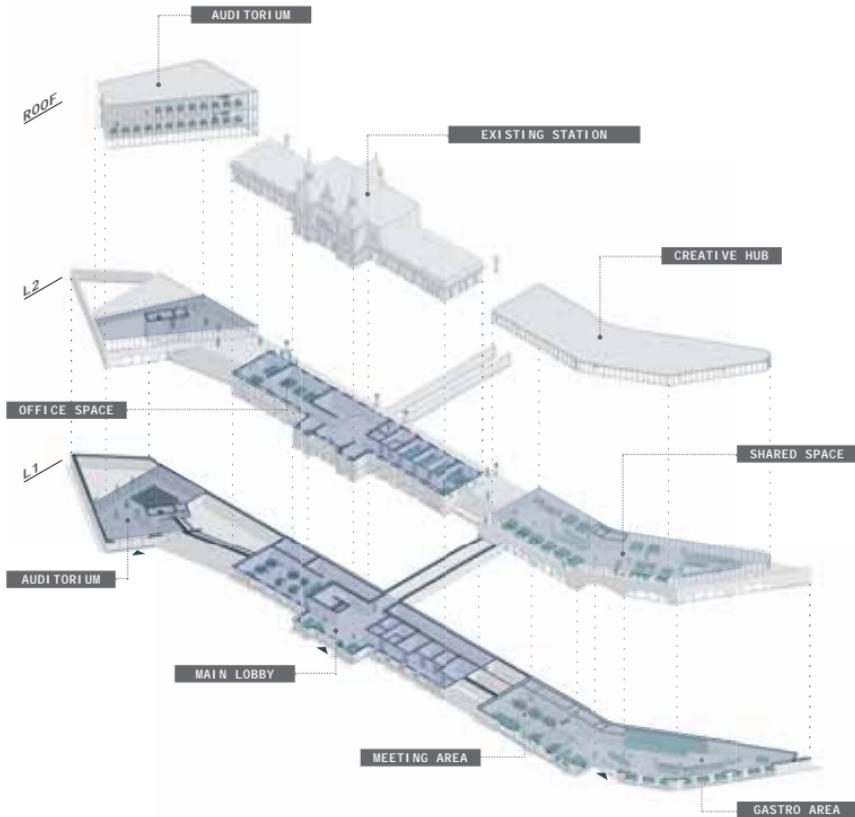


SITE  
PLAN  
1/1000

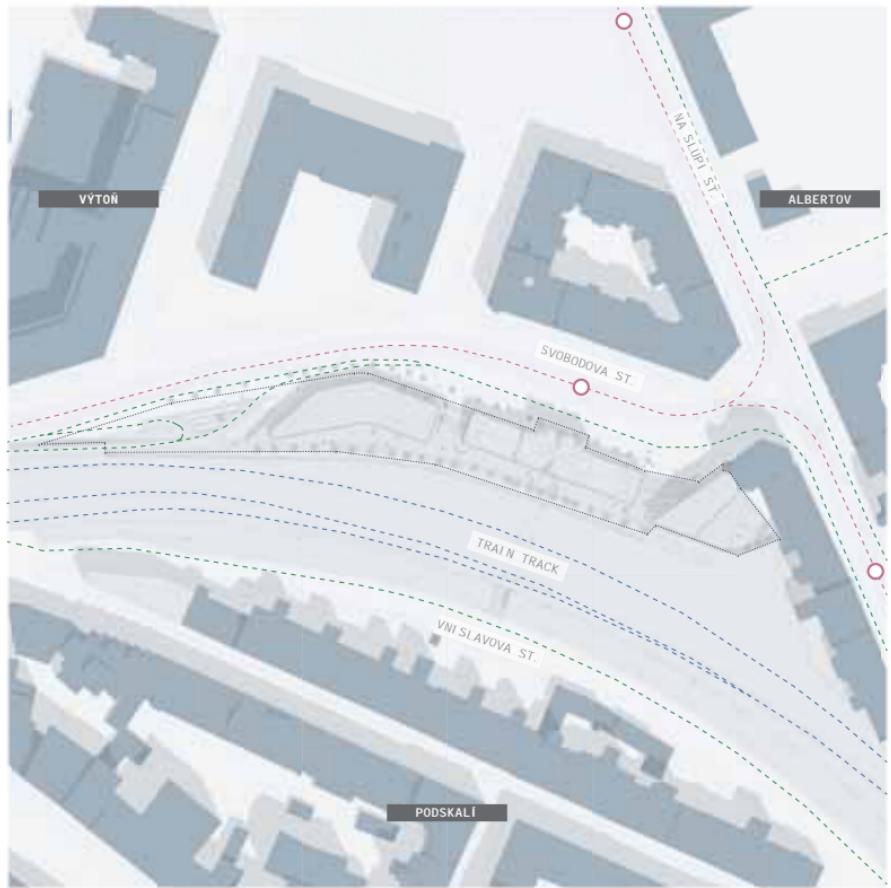








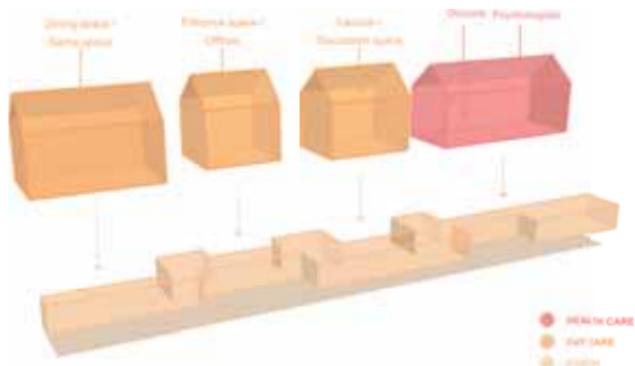
## BUILDING PROGRAM



SITE PLAN 1: 1000

# Care for seniors.

*In Prague*



INTERIOR



TERRACE



ENTRANCE

Bělohorská



Na Běleznovské Pláni

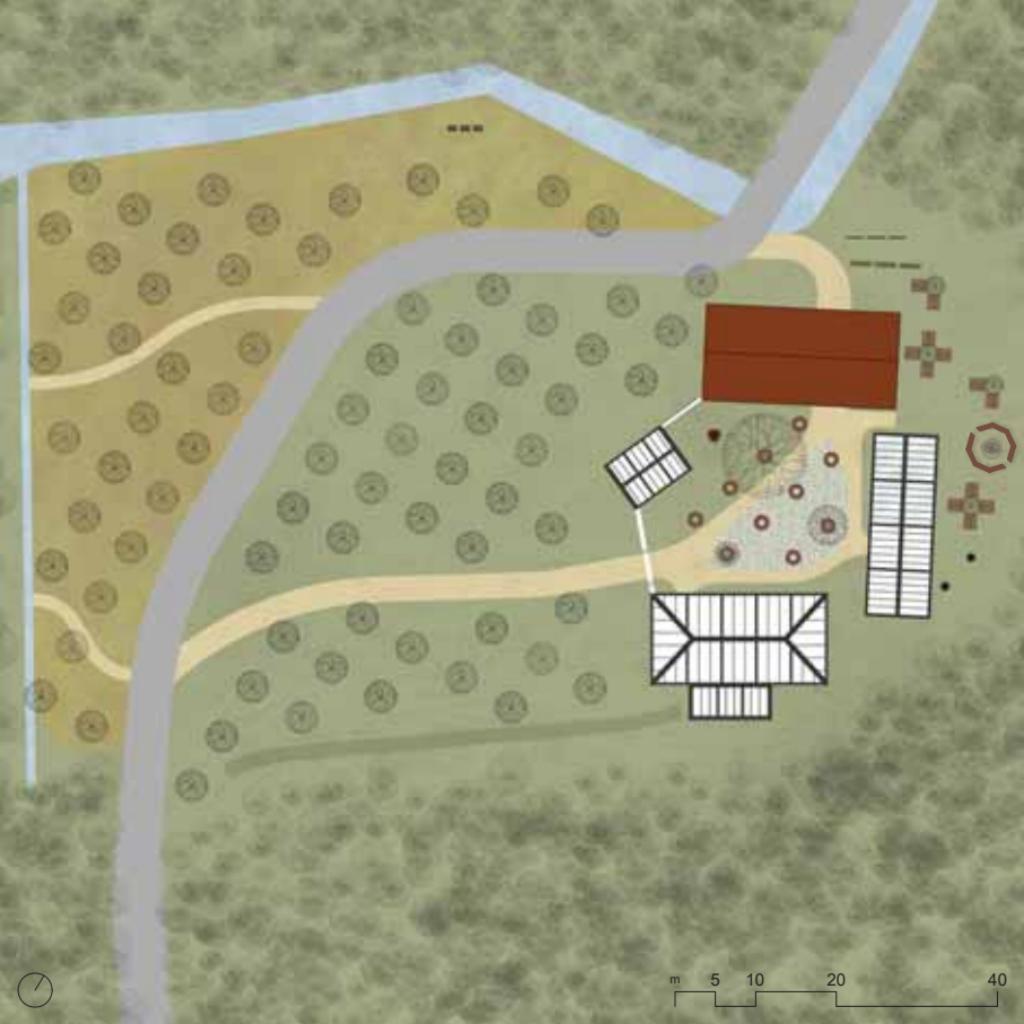
● HEALTH CARE  
● DAY CARE







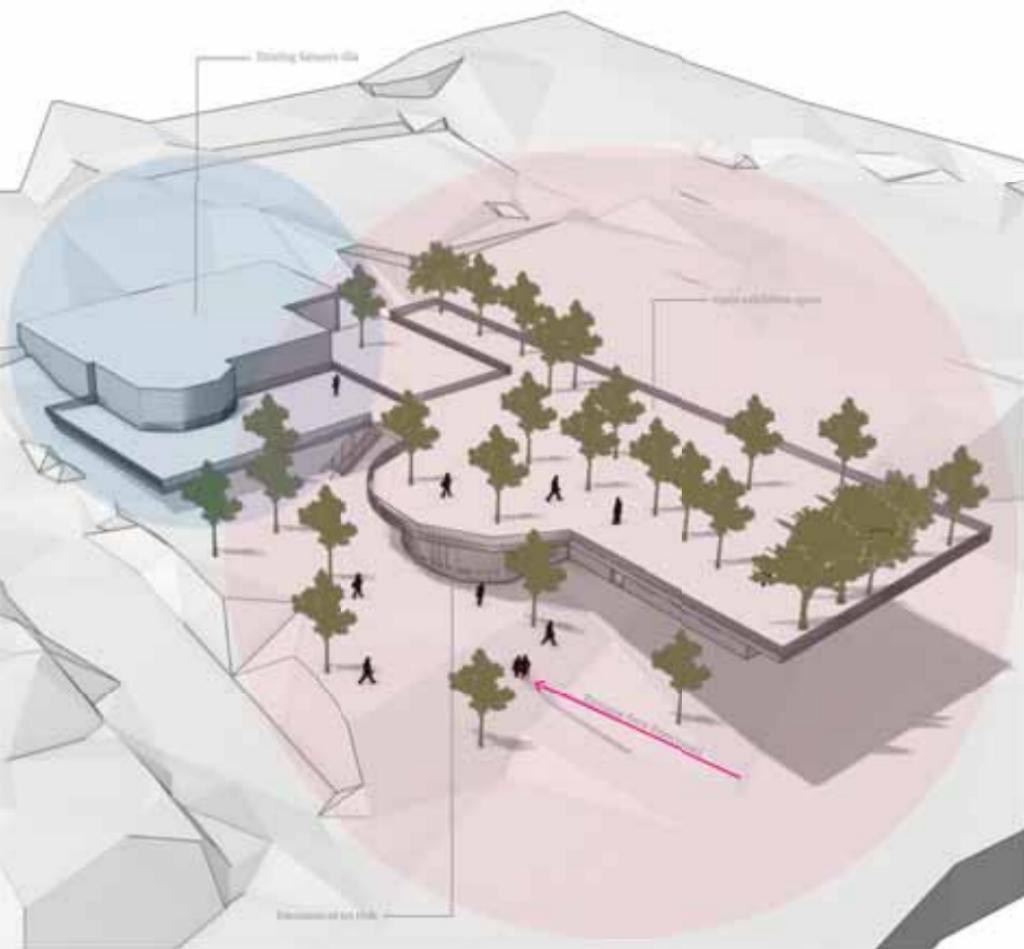




m 5 10 20 40











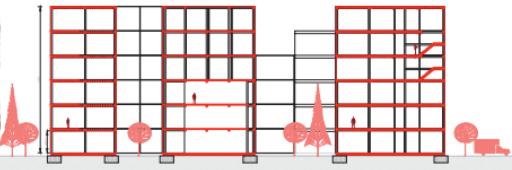






Section South View 1:200

A



Section - South 1:200

A



# U Zeleně lofts



Maria Paula Frias  
Architectural Design 6  
Werlitz / Kopecky Studio  
2024



- 1 Self
- 2 Site information
- 3 Schrems map
- 4 Site plan
- 5 Aeronautical visualization of site
- 6 Preparation Diagram
- 7 Aeronautical diagram
- 8 Current site development
- 9 Maps
- 10 What, why and how Diagram
- 11 Visualizations
- 12 Aeronautical camp
- 13 Road plan
- 14 Safety floor plan
- 15 Visualizations
- 16 Hills floor plan
- 17 Roads floor plan
- 18 Visualizations
- 19 Fire plan
- 20 Emergency floor plan
- 21 Visualizations
- 22 Fire floor plan
- 23 Circuitous floor plan
- 24 Sketches as is
- 25 Sketches to be
- 26 Aeronautical detail
- 27 Elevation detail
- 28 Elevation south
- 29 Table of rooms
- 30 Registration system diagram
- 31 Registration system details
- 32 Unmarked
- 33 Visualizations
- 34 Preuse

Student name and surname:	Maria Rikar
Academic year:	2023-2024
Bachelor program:	Architecture
Studio leader:	JANIS KOPROK JARDA WERTIG

Title/theme of the project: DENSITY INDUSTRIAL

The project is thus divided into four parts. For the last 2-3 weeks, students analyse the *Architectural Record* (a monthly magazine of architecture) to choose a building to redesign, evaluate the opportunities and constraints occupied by such buildings, and propose their concepts to the class with diagrams from other cities in the United States or abroad.

#### Local Context

The site is located in the district of Slobodnaya, specifically in the northern part of the city. The area is characterized by a mix of residential and industrial buildings. The terrain is relatively flat, with some minor elevation changes. The site is bounded by a road to the west and a railway line to the east.

Coordinates: 40°14'14.7", 14°38'45.7"

The site is a rectangle in the center of the image, surrounded by a mix of residential and industrial buildings.

#### Neighboring

The surroundings of the site are mostly flat terrain with some minor elevation changes. There are several roads and railway lines in the area, and some industrial buildings are visible in the distance.

Coordinates: 40°14'14.7", 14°38'45.7"

#### Accessibility

The site is accessible via a network of local roads, with the nearest major road being the one to the west. There is a railway line to the east, which may affect accessibility. The site is located in a residential area, with some industrial buildings nearby. The terrain is relatively flat, with some minor elevation changes.

Coordinates: 40°14'14.7", 14°38'45.7"

The site is a rectangle in the center of the image, surrounded by a mix of residential and industrial buildings.

Coordinates: 40°14'14.7", 14°38'45.7"



© Bobrovskiy / Sokolovskiy  
32° x 142°, 14°38'45.3"

#### Historical Context

The site is located in Prague, Czech Republic. The area has been part of the city since 1922, when the city of Olomouc joined the Czechoslovakia. The area was originally a part of the town of Olomouc, which was founded in the 13th century. The town was later incorporated into the city of Prague in 1922.

Throughout its history, the town has been a center of trade and industry. It was a major center of the textile industry in the 19th century, and it still remains an important industrial center today. The town is also known for its rich cultural heritage, including its numerous churches, castles, and historical landmarks.

Olomouc is a town in the Olomouc Region of the Czech Republic. It is located in the north-eastern part of the country, near the border with Slovakia. The town is known for its rich history and culture, as well as its beautiful architecture and natural surroundings.



© Bobrovskiy / Sokolovskiy, 2018



© Bobrovskiy / Sokolovskiy, 2018



Evolution of the site over the years



Site Plan



Metropolitan map



Transportation



What Why and How Diagram



Concept Development





**BEFORE**

Concept development



Current residential block with existing geometry



Diagram showing proposed new green

One main green space (the building footprint) is proposed, as well as a smaller green space (the jagged line) on the southern side, which is planned to be a permeable area of the site, connecting public space on the ground floor, including the complete extension of the stairs.

To achieve this, existing trees on the site must be cut or replanted in place. Additionally, the proposed green space will be built on the site of the original garage and this, therefore, is planned to remove the geometry of the site.



Proposed new green

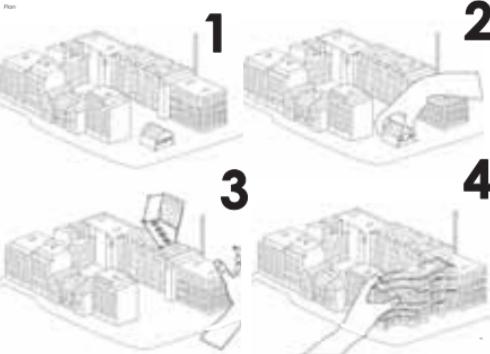
Right now, there are old, unattractive buildings. The "problem" is not that they are old, but that they are not used and are not wanted by the people of our city.

The plan is to renovate and reuse them.

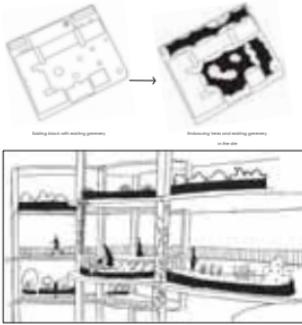
And one of the solutions for solving the space and old in the community and the neighborhood, is to take a chance and begin changing the space of the community.

Our new building will be a modern building, with the overall design designed to look like the old buildings, but in a modern way, making it look like a modern building, but still looking good.

Plan



Concept Development



Architectonic View



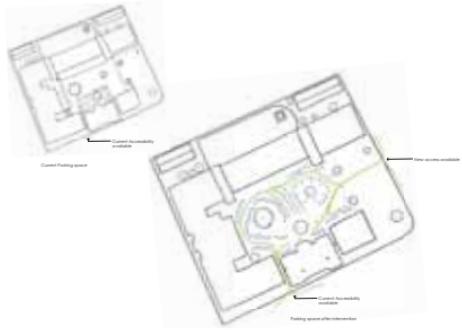
Site Plan



Site Plan

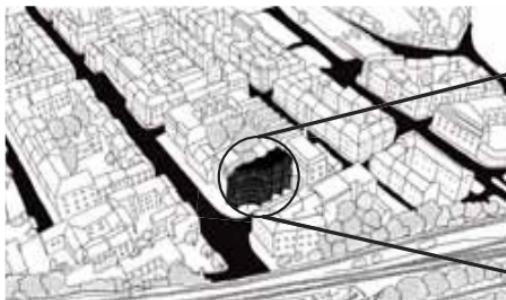


Parking Diagram

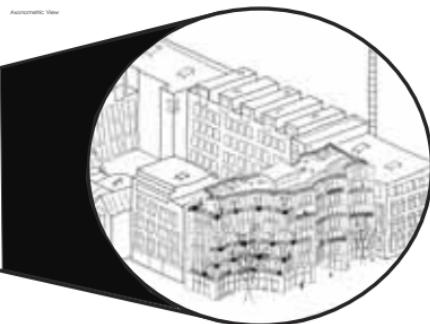


Visualization of concept





**AFTER**



Aerometric View



Programs

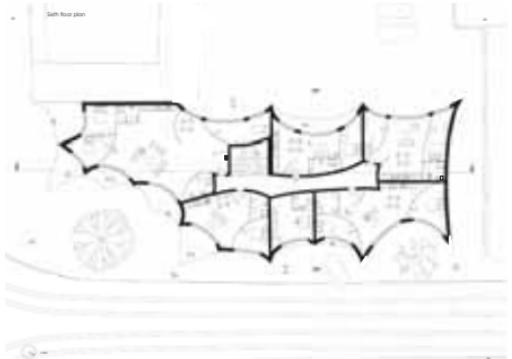


Commercial Space (Ground)

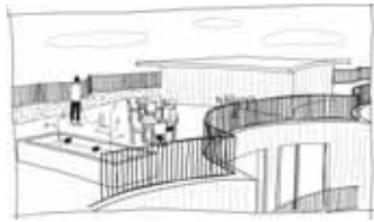


Residential Space (Top)

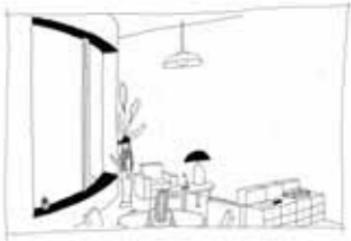
Exterior spaces consist of areas ranging from open air terraces to private balconies. The building's curved form creates a variety of spaces, from public to private, and from outdoor to indoor, creating a sense of depth and complexity.

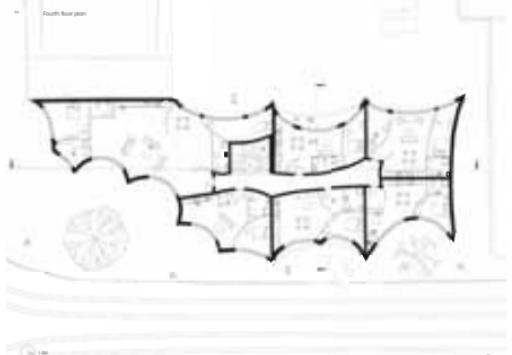
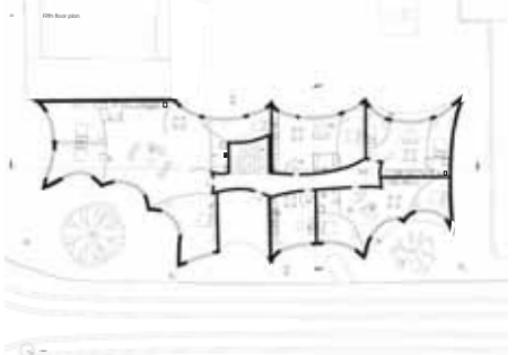


Visualization



Visualization





Visualisation

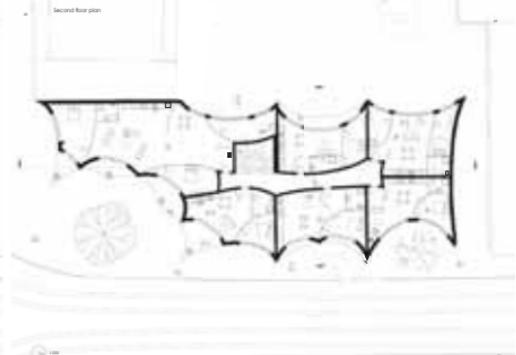
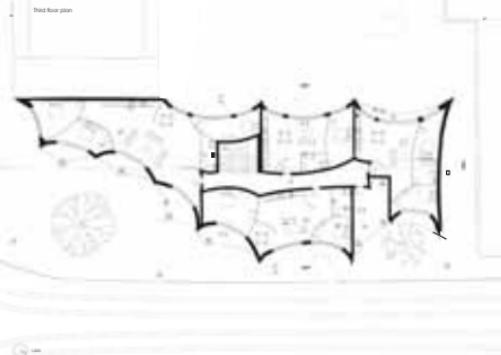


© 2010 The Royal Institute of British Architects

Visualisation



© 2010 The Royal Institute of British Architects



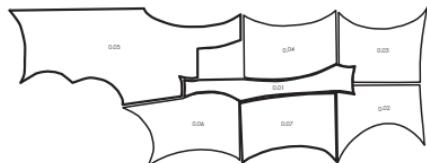
visualisation



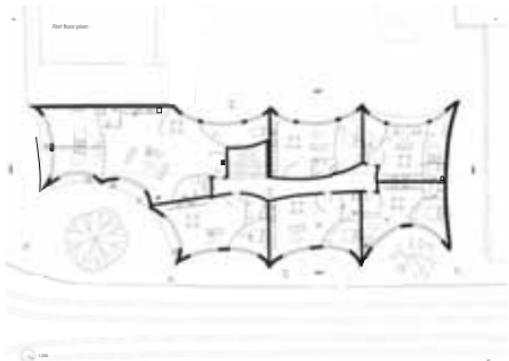
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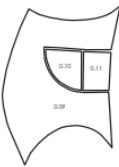
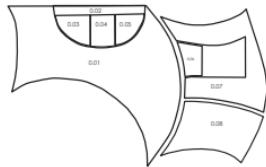
First floor plan - Site



First floor plan

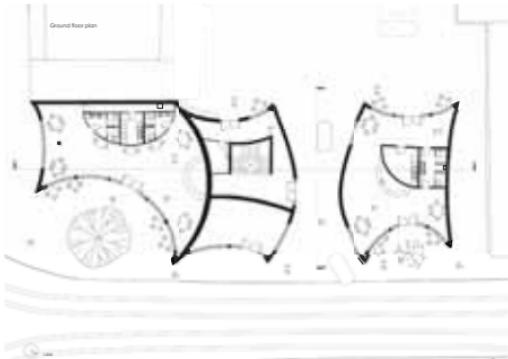


Ground floor plan - Site



Ground floor public spaces

0.01	Reception/space
0.02	Hall
0.03	Office
0.04	Office
0.05	Office
0.06	Office
0.07	Office
0.08	Office
0.09	Office
0.10	Office
0.11	Office





Section B-B



Section B-B





Table of rooms



1 Bedroom apartment	
1.01	Dormitory
1.02	Kitchen
1.03	Living room
1.04	Bathroom
1.05	Bedroom



2 Bedroom apartment	
2.01	Dormitory 1
2.02	Kitchen
2.03	Living room
2.04	Bathroom
2.05	Bedroom 1
2.06	Bedroom 2

Table of rooms

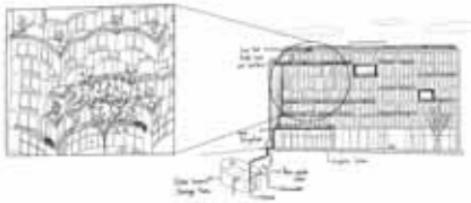


1 Bedroom apartment	
1.01	Dormitory
1.02	Kitchen
1.03	Living room
1.04	Bathroom
1.05	Bedroom



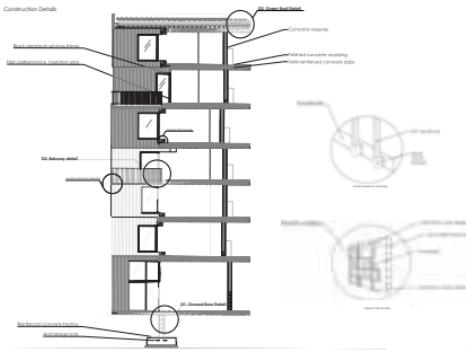
2 Bedroom apartment	
2.01	Dormitory 1
2.02	Kitchen
2.03	Living room
2.04	Bathroom
2.05	Bedroom 1
2.06	Bedroom 2

### Irrigation system Diagram



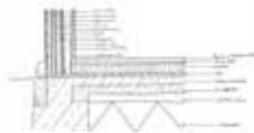
### Visualization





## Construction Details

#### 81. Ground floor detail

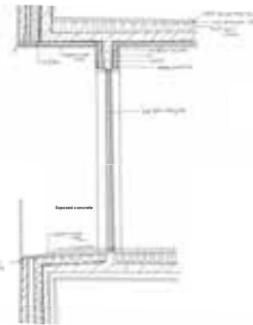


### III. Green Roof Details



### Construction Details

100 *Environ Biol Fish*



80% Model | 220



Development







#### **Plumbing**

The plumbing uses variable speed pumps and pressure-reducing valves to adjust water usage and pressure based on real-time basically the more water is demanded the more the pumps accelerate on speed.

#### **Irrigation system**

The residential building has a green roof and balconies with greenery. The green roof has an irrigation system that uses drip irrigation. This system waters both the green roof and the balcony plants.

The underground storage tank gathers rainwater from the rooftop. It's placed under the building to collect rainwater efficiently. When it rains, water will flow from the rooftop through the green roof planter drain and go into the underground tank.

#### **Water**

Water supply is provided from the local water network. The water is pumped using a pipe system that is connected all the way in the technical room where the cylinder of the heat pump is located. To minimize energy consumption, the heat Pump System is utilized also to heat the water.

#### **Fire protection**

Fire escape route is provided through the main circulation shaft accessible from all floors that leads to the ground floor exit.

Fire trucks can access the building from the street. From Northeast to South.

#### **Conclusion**

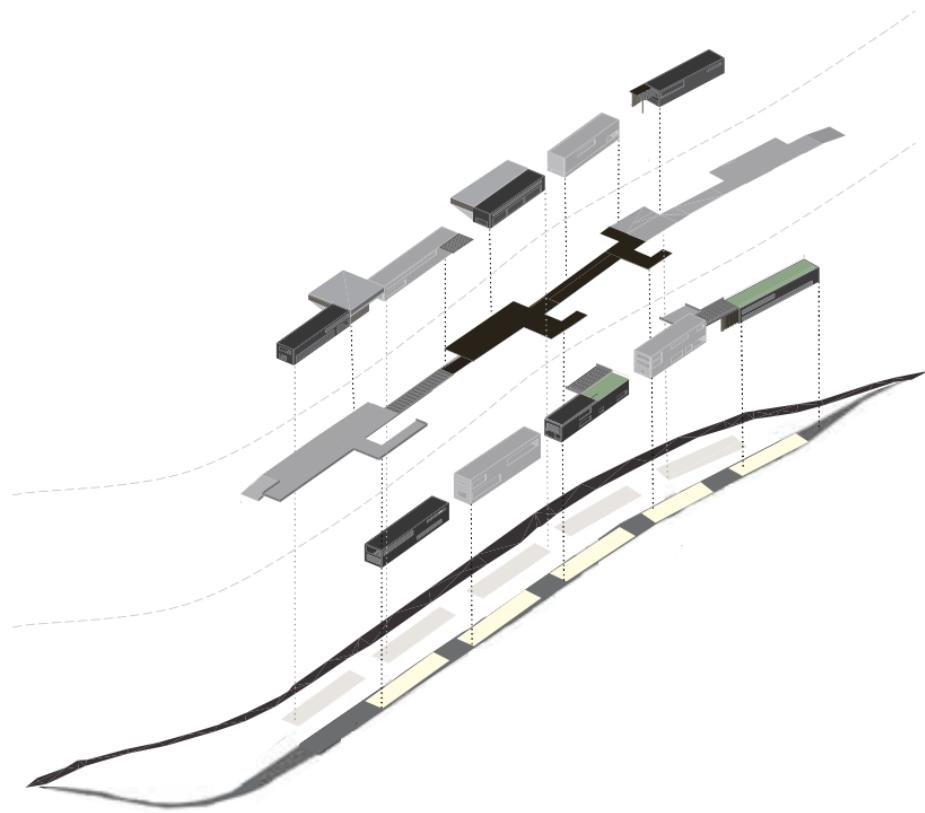
The project offers a functional and well-designed solution for the underutilized space. The main goal is to respect existing greenery and integrate it into the shape of the design, creating a unique and sustainable addition to the neighborhood that offers a contemporary take on urban living that would also honor the blocks industrial heritage.















SITE PLAN





