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 260.539 / 260.538 Urban Density Lab Lemberg 2020

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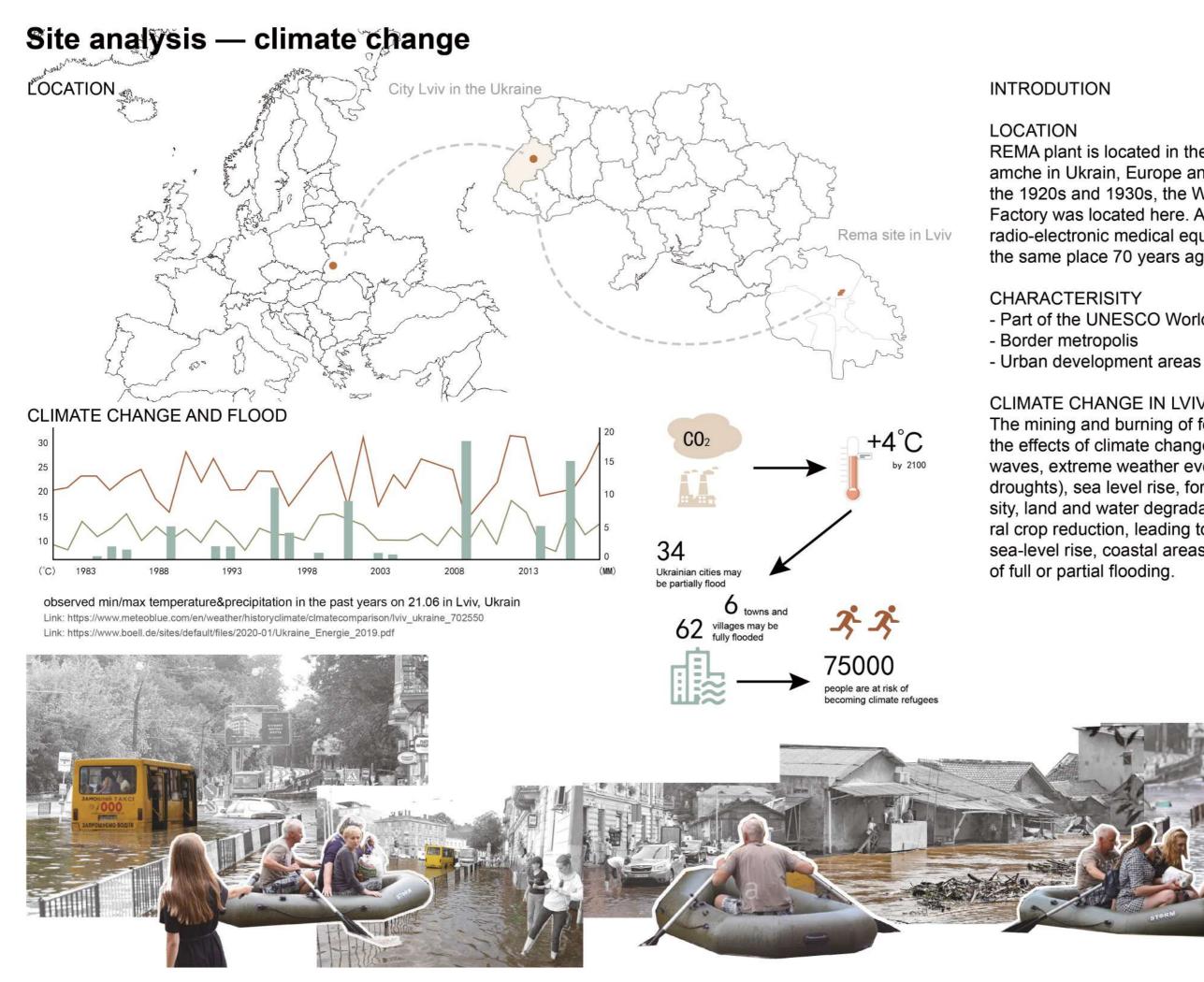
Lviv city Department of council Architectural Design Lviv Polytechnic National University





Model pictures





REMA plant is located in the industrial area of Pidzamche in Ukrain, Europe and has a long history. In the 1920s and 1930s, the Winter Brothers Weigh Factory was located here. A powerful factory of radio-electronic medical equipment was founded on the same place 70 years ago.

- Part of the UNESCO World Heritage Site

CLIMATE CHANGE IN LVIV

The mining and burning of fossil fuels exacerbates the effects of climate change in Ukraine, such as heat waves, extreme weather events (storms, floods and droughts), sea level rise, forest fires, loss of biodiversity, land and water degradation, as well as agricultural crop reduction, leading to food insecurity. Due to sea-level rise, coastal areas of Ukraine are under risk



Site analysis — history and density



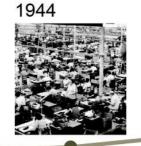
DENSITY — Less density in factory area

HISTORY TIME LINE OF DEVELOPMENT IN REMA

1920s and 1930s



Here in the 1920s and 1930s was the Winter Brothers Weight Factory, on the basis of which REMA was created.



Lviv factory of radio-electronic medical equipment REMA began its activities on 1 August 1944, as a factory of disinfection equipment.

1960s-1980s



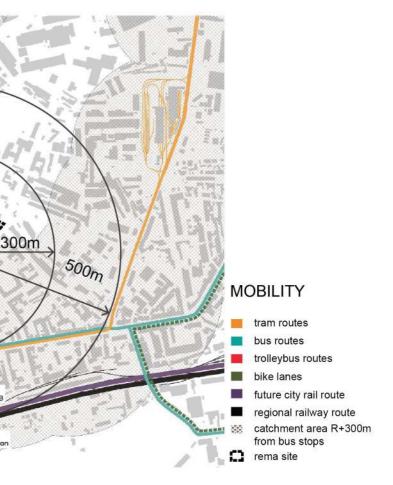
The plant experienced its rise in the 1960s-1980s, During its heyday 1000 employees per shift worked at REMA.

MOBILITY — Inconvenient public transpotation





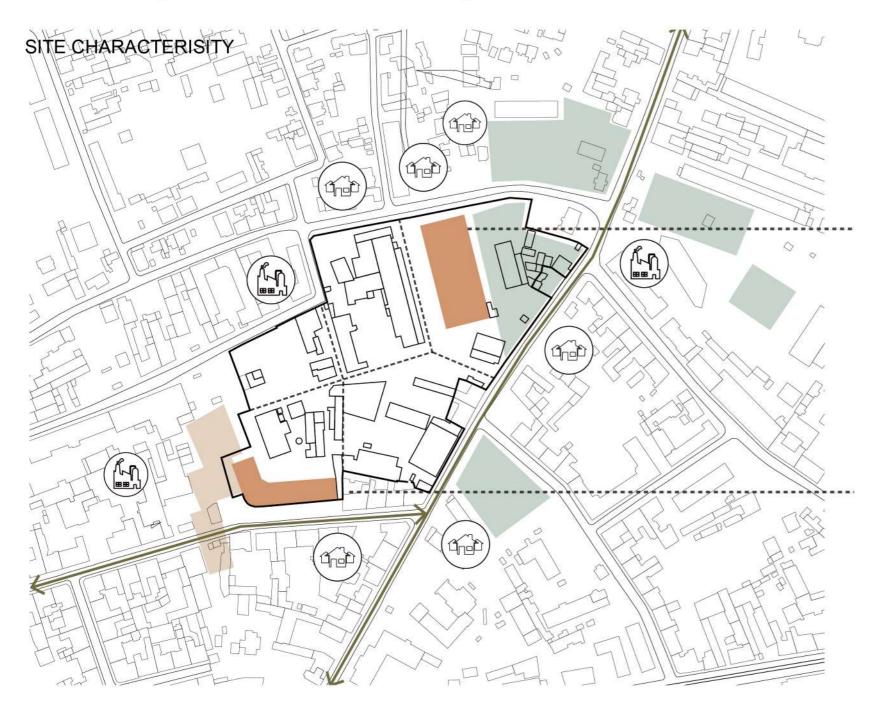
In the 1990s, the plant began to decline, the production almost stopped, and the giant square was empty.





Today there are about 70 small companies. The new residents of the factory was created a public organization "ReZavod".

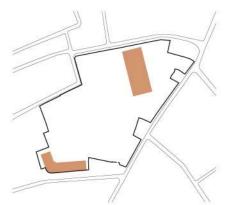
Site analysis — characterisity

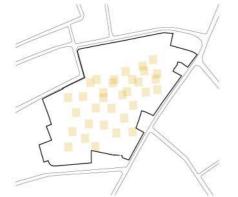


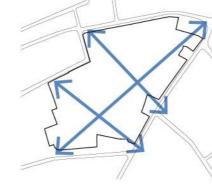




DESIGN POTENTIAL









art center creative part of the neighborhood



balance between working and living space

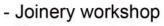
element to preserve and connect

program distribution of visitors

connect surrounding street

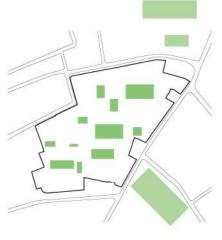


- Meteal&steel Workshops
- Gym
- Architectors
- Designers
- Engineers
- Manufacture of gallery
- Art studio/Gallery
- Sewing workshops
- Production of tables
- Blacksmith
- Joinery workshops
- Laser cut



- Sewing workshops
- Advertisers
- Artistic workshops
- Art gallery
- Photo studio
- Theater
- Recording studio
- Bakery
- Architecture visualizers





distribution of green spaces

Conclusions & Goals

Conclusions



climate change and flood safety



unbalance between housing and office



abandoned parcel, small design companies

Goals



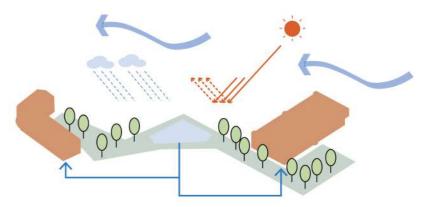
rainwater collection and recycled use

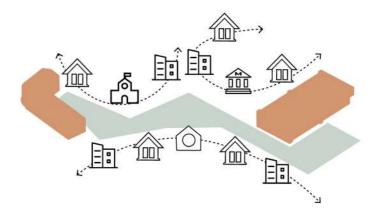


art studio, office, housing, exhibition



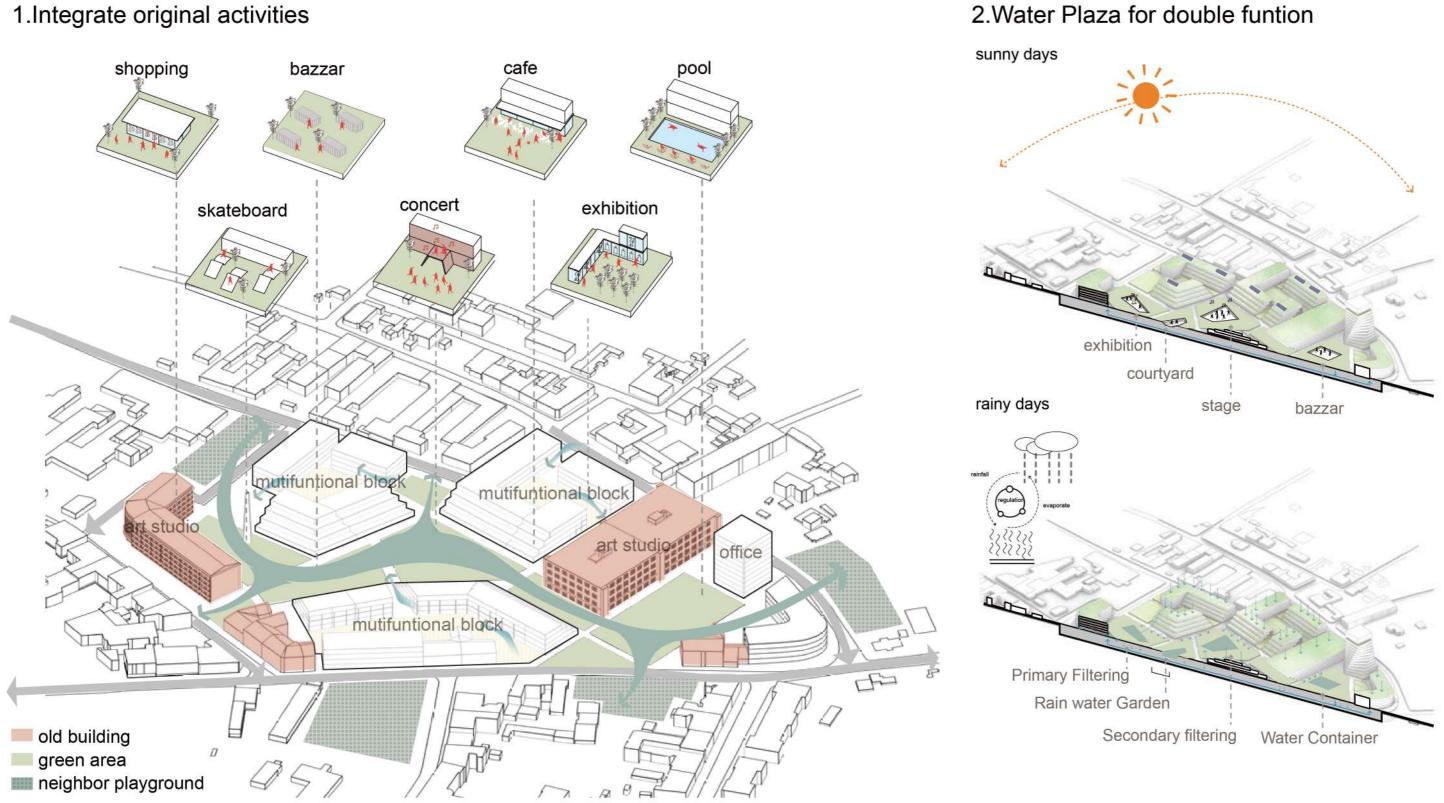
preserve and renewal the original phenomenon







Concept



Space diagrams

1.Open street interface

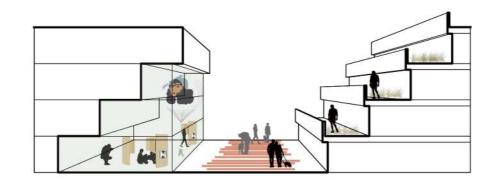


Creative interface

The stepped volum of the buildings create an "open, inviting and sustainable place".



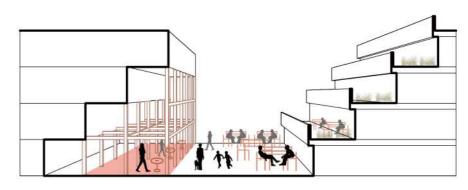




Artistic interface

The upside-down terrace building creates an interesting space for artistic exhbition and gallery.

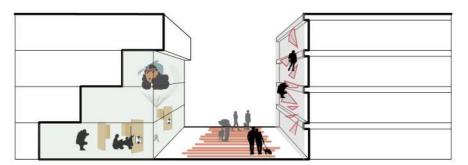




Market interface



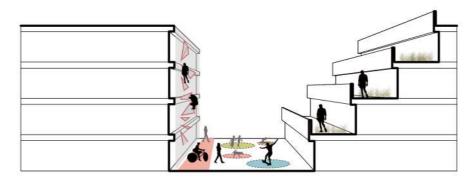
2.Semi-open street interface



Entertainment interface

The vertical building surface create the space for entertainment and exhibition.





Playground interface

The vertical building surface create the space for entertainment like climbing and skating.



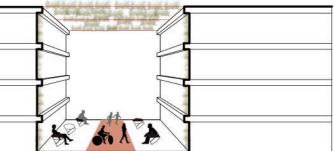
Leisure interface

The normal street interface create greenary area for take a rest, it become quite, relaxed and comfortable.

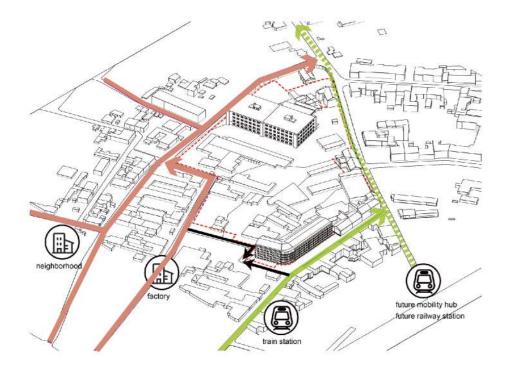


The upside-down terrace and old building structure create an leisure space for open market and cafe.

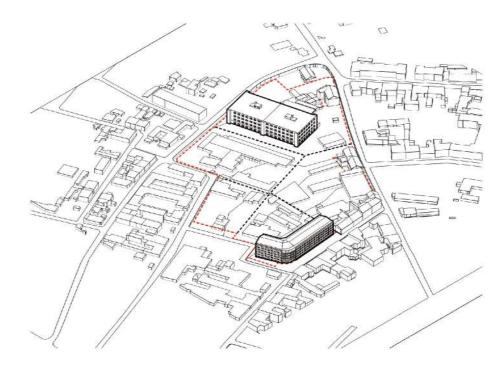


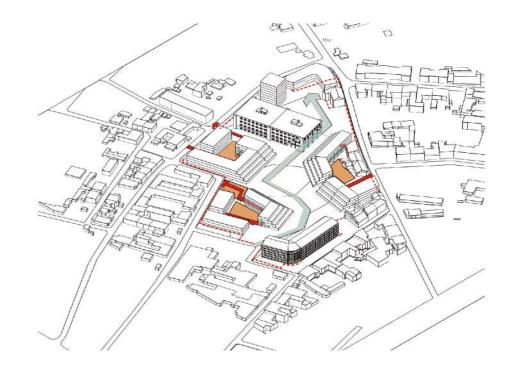


Develop steps

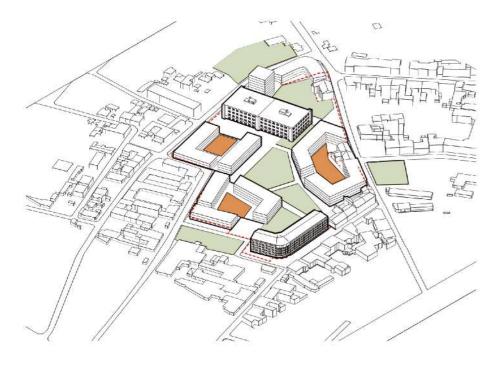


1. Improving connection between streets with prominent circulation and the once with neighborhood.

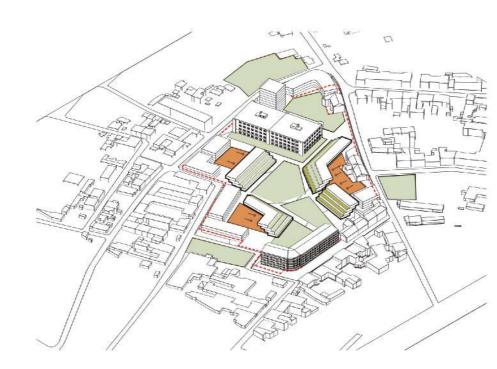




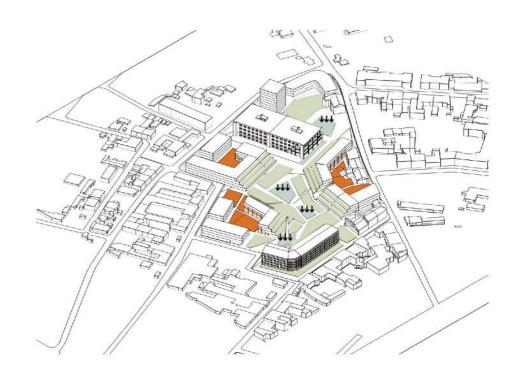
2. Division of the area in to several part according to the original urban fabric.



4.Differentia the public space and semi public space



5. Extending the green spaces on to the terraces and create private for the office blcoks.

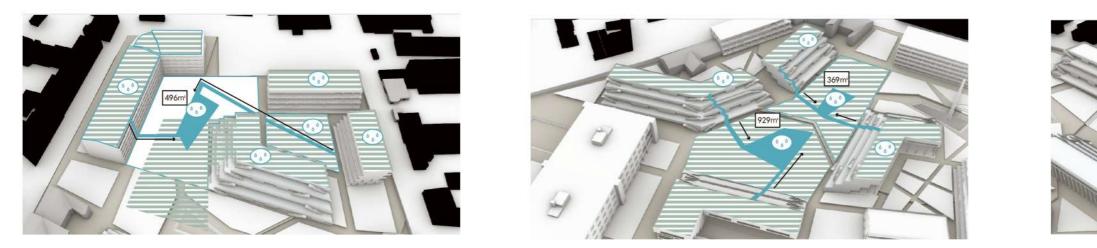


3.Link two old buildings with main public greenary and connect the office blooks and the neighborhood.

6.Use water plaza for double funtion, including collecting rain water and form creative space.

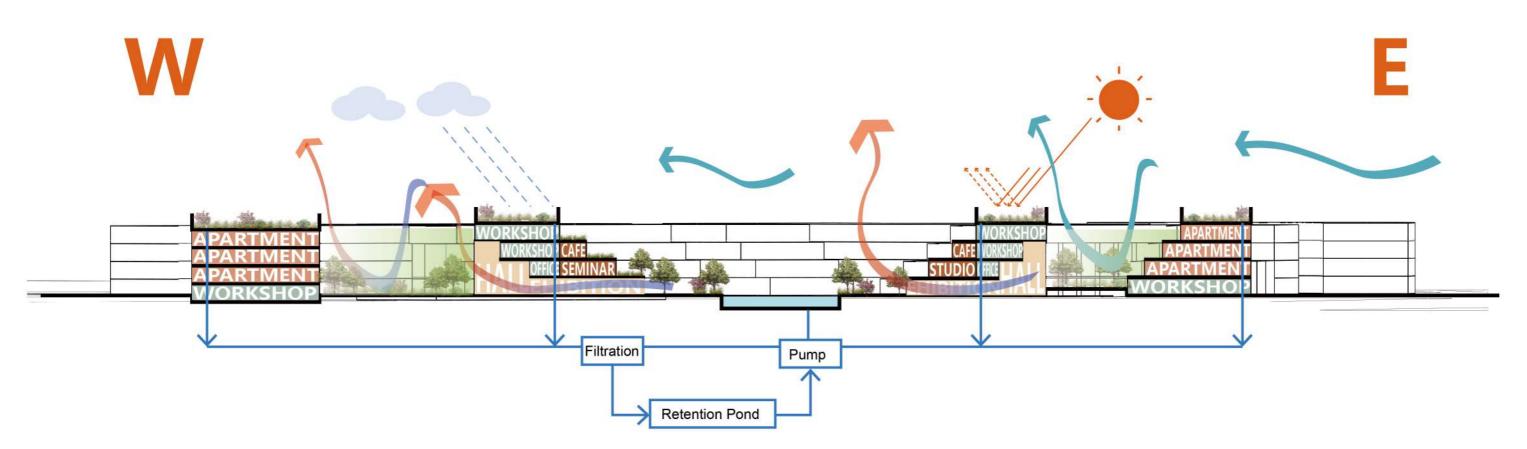
Rainwater haverst and reuse

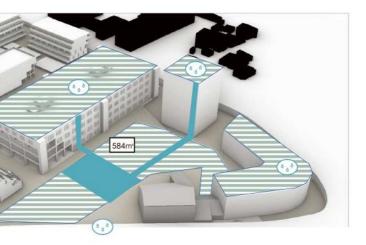
1. Collect rain water

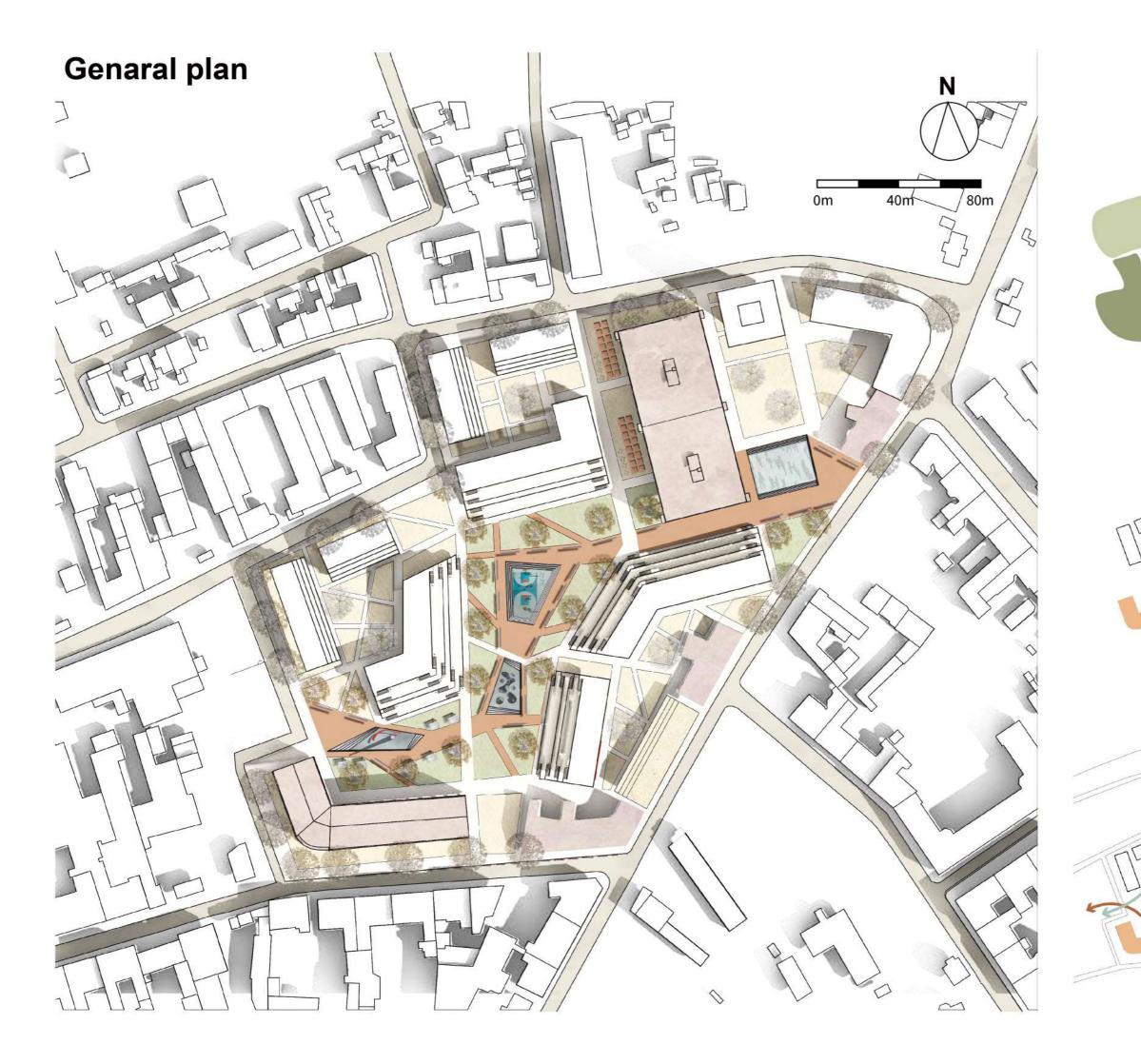


Accordind to the average precipitation in July, we estimate the highest average amout of rainwaterfall and calculate the deep of each water plaza, the average plaza should be 1.6meter deep. By penetration of the greenary on the rooftop and groundfloor, we use pipe to drain the rainwater to the sink and filtrate the water underground. After that, the water can be reused for people's daily life.

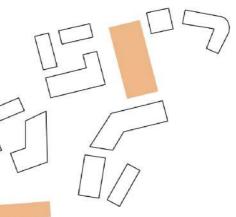
2. Reuse rain water



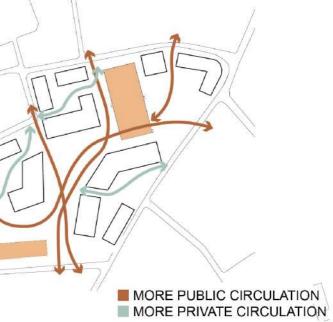




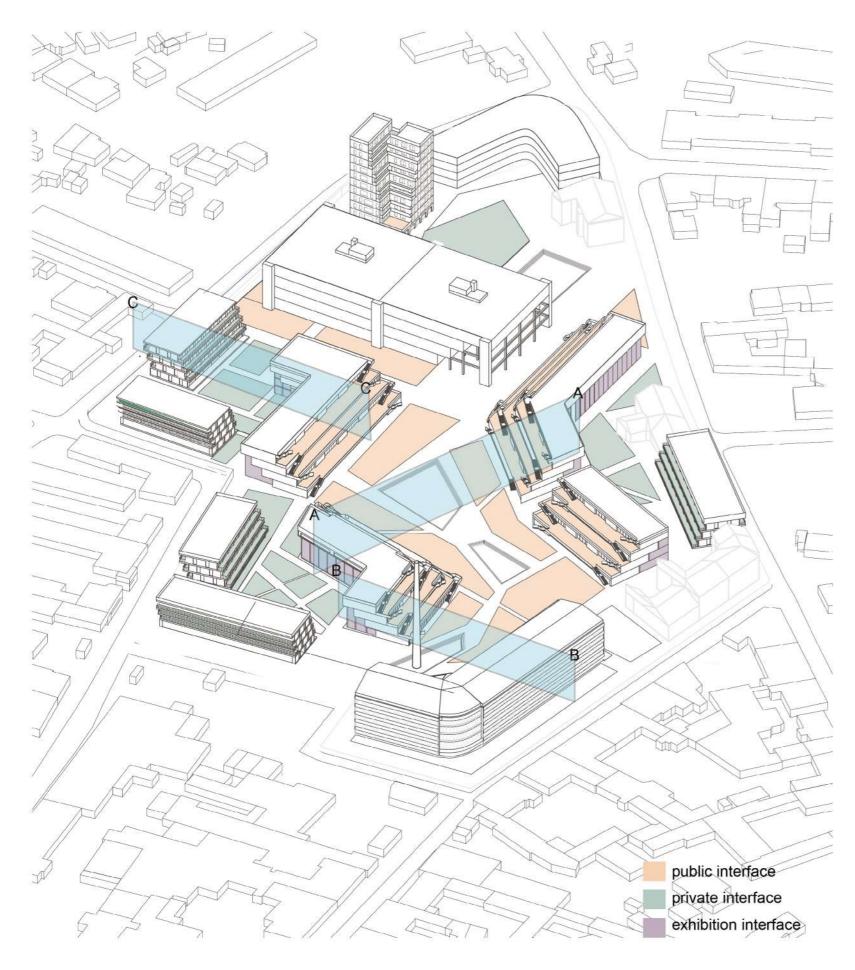




PRESERVED BUILDINGS



Pubic&Private interface

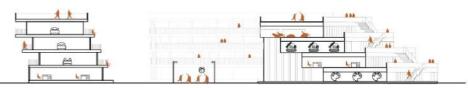


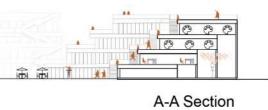
public interface

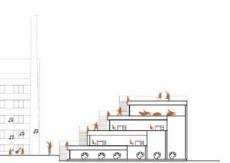
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private interface







**B-B Section** 

C-C Section

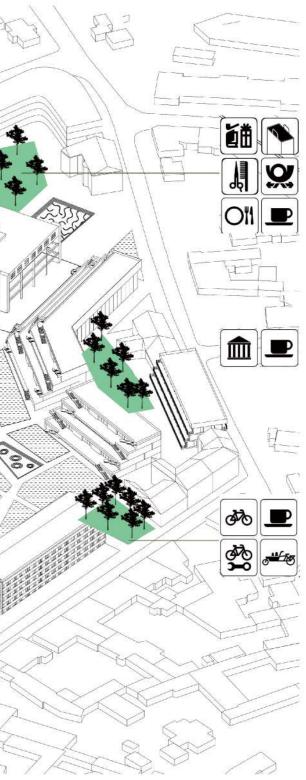
# Publc & Semi-open space

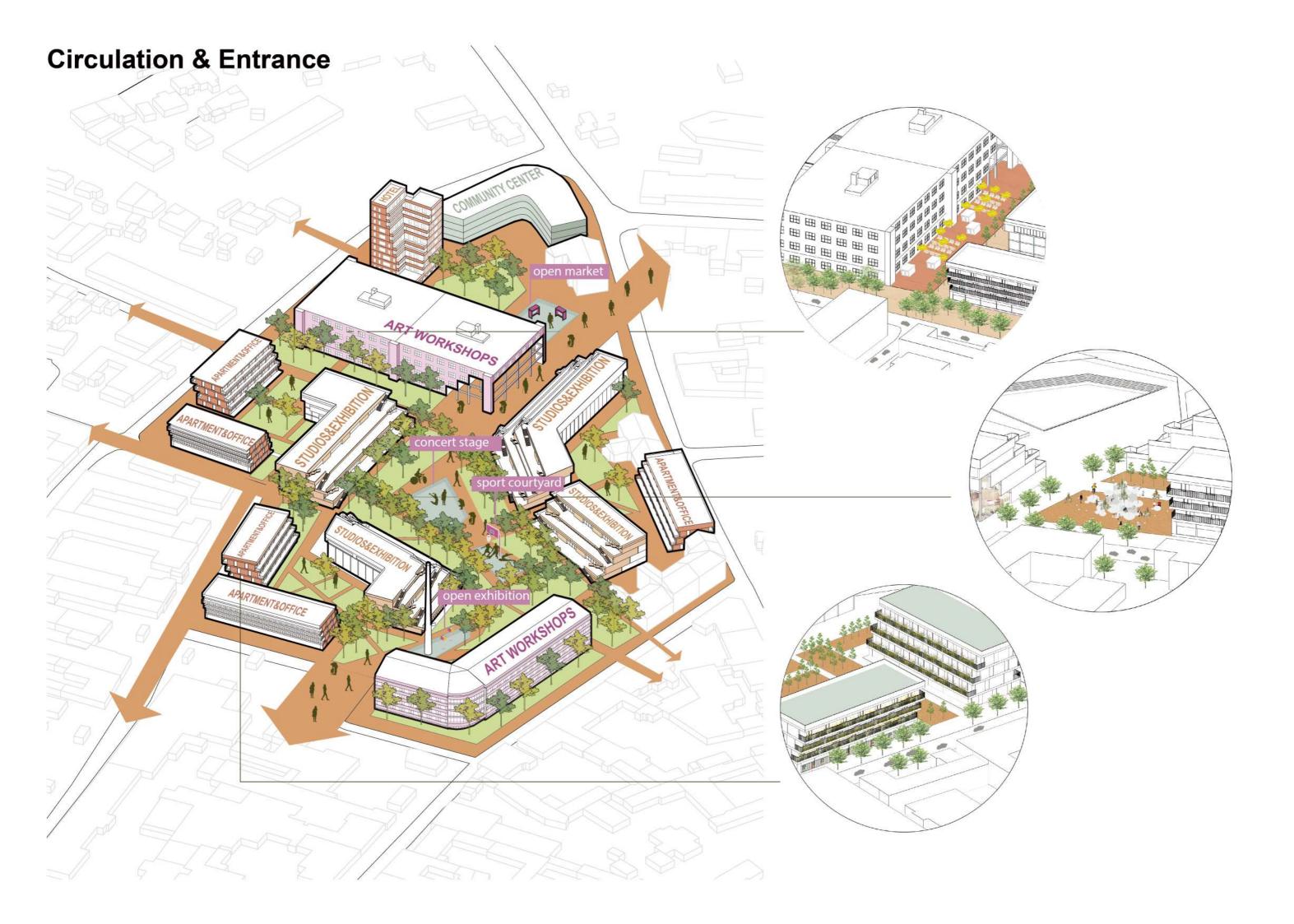
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Public open space connect the old buildings and create variety of activities such as exhibition, bazzar, exercise , skating board and concert.

Semi-open space seperate in the office neighborhood, create leisure space for coffe, gallery and couryard.

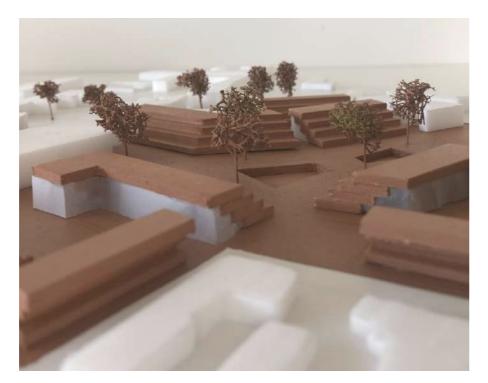




# Model details











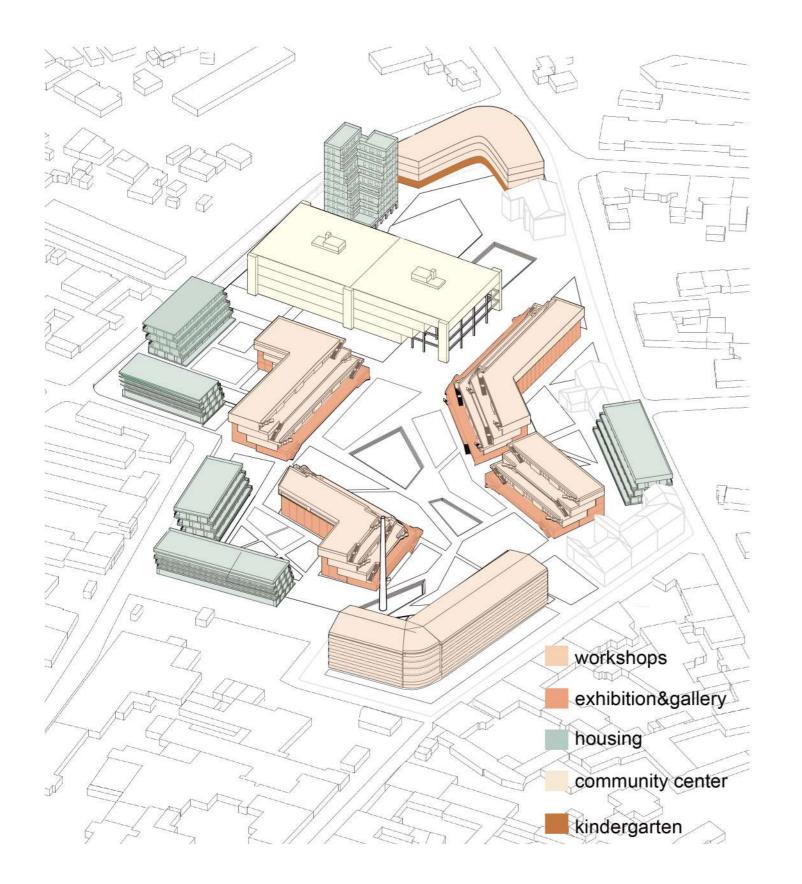
commercial

exhibition

workshops

housing

# **FUNTION&FIGURE**



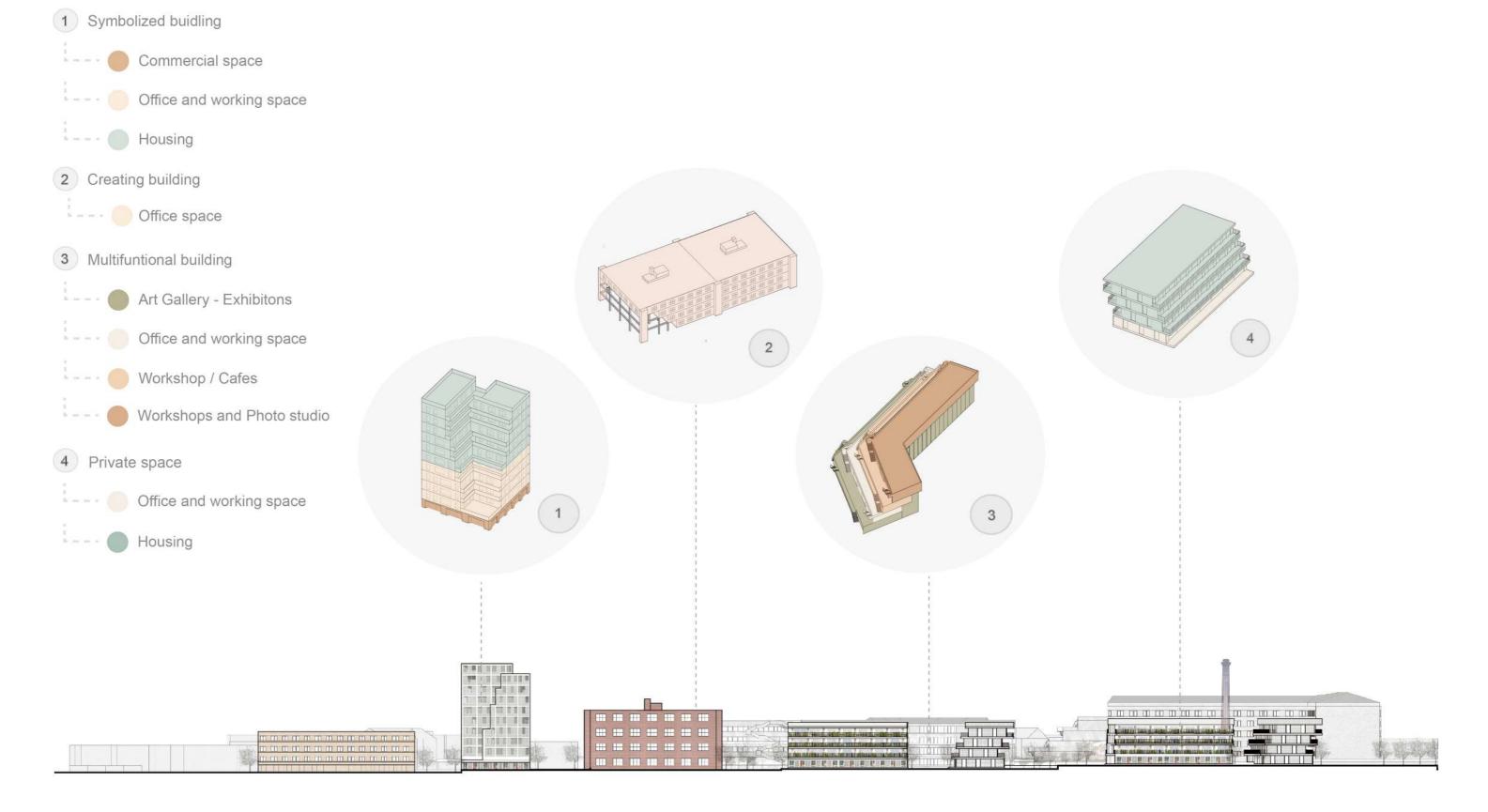
Area Figures		
Area of the Plot 44300 m ²		
Total Floor Area 78240m ²		
Floor Area Ratio 1.76		

People figures	
Area of the Plot Without green space around	
2860 - people	
Total Area around	
4046 - people	

Living (400 - people)	exhibition (800 - people)
education &care center (500 - people)	green space (1186 - people)

Living	exhibition
(14100m²)	(8220m²)
education &care center (1130m²)	green space (13860m²)

# **Building typology**



Creative hub

Office&Apartment







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