

RIVERSIDE COLLAGE

Fruzsina Kovács & Anna Zsanda

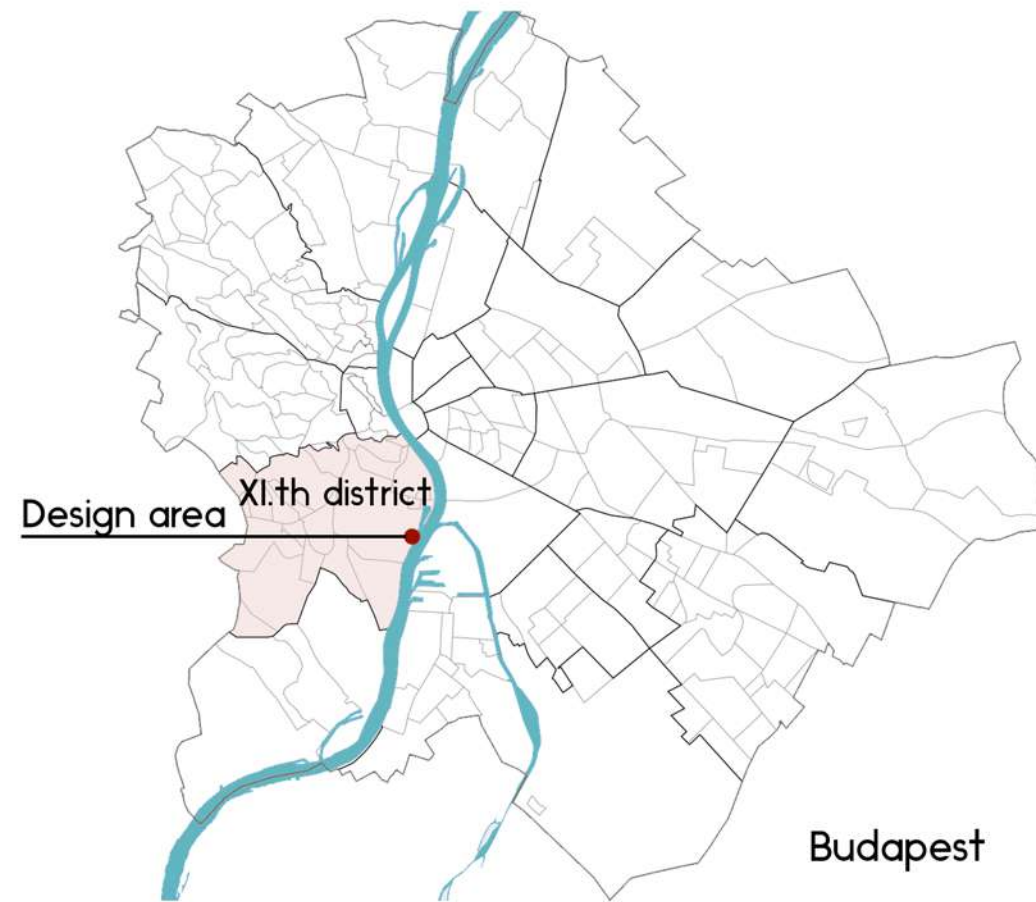
Consultants: Marianna Fonyódi Ph.D, Rebeka Monory, Árpád Szabó DLA



DESIGN AREA

Our design area is located in Budapest at the 11th district, alongside the River Danube. The site has an **industrial heritage** which really intrigued us, so we wanted to integrate some of its elements into our plan.

Most of the buildings are worn-out and can hardly be saved, but there are some once-beautiful halls with clinker facades and an old industrial chimney which are worth preserving. You can also find protected, **art deco monuments** here like the grain mill of Buda or the power station of Kelenföld.



Unfortunately, most of the area is used as a car junkyard, also, the **earth is heavily polluted** due to the industrial usage. The bank of the Danube is steep and rocky, there is no path leading from the upper side of the place to the bottom parts.



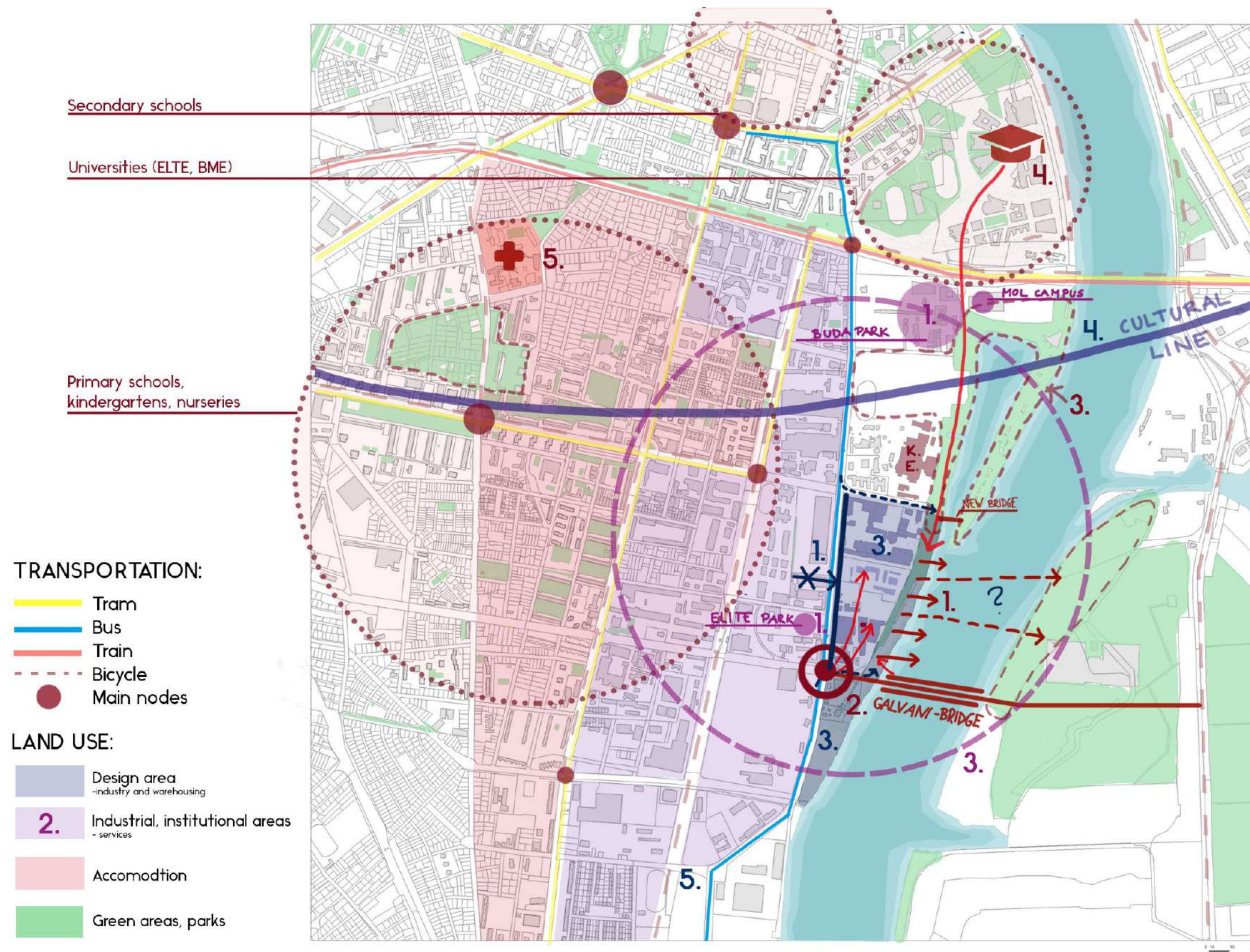
Promisingly, our site is heavily affected by the **Galvani bridge**, which will be one of the biggest developments in this area, it will be built in the near future, generating a better infrastructure, greater traffic, **developments and possibilities**.



CURRENT SITUATION

Riverside Collage

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ADVANTAGES:

1. The bank of the Danube and its potential
2. Galvani bridge -> future developments are expected to have a positive impact
3. Proximity of Kopaszi gát -> it gives the possibility to create a coherent green belt
4. Relative proximity of educational institutions -> we can create a path to enable easy access from the universities
5. Relatively good health network

DISADVANTAGES:

1. Blockage on the bank of the Danube -> crossing to the rivershore is hardly possible
2. Lack of services in the design area and also in its immediate surroundings
3. Empty industrial zone in a poor condition, junky riverside
4. Cultural line
5. Underdeveloped infrastructure:
 - rare bus services
 - fixed-track transport is relatively far away
 - the city center can only be reached by transfer
 - lack of built bicycle lanes

BOTH ADVANTAGE AND DISADVANTAGE:

1. Real estate investments, developments
2. Industrial areas separate residential areas from the riverbank, but there is great development potential
3. 15-minute circle

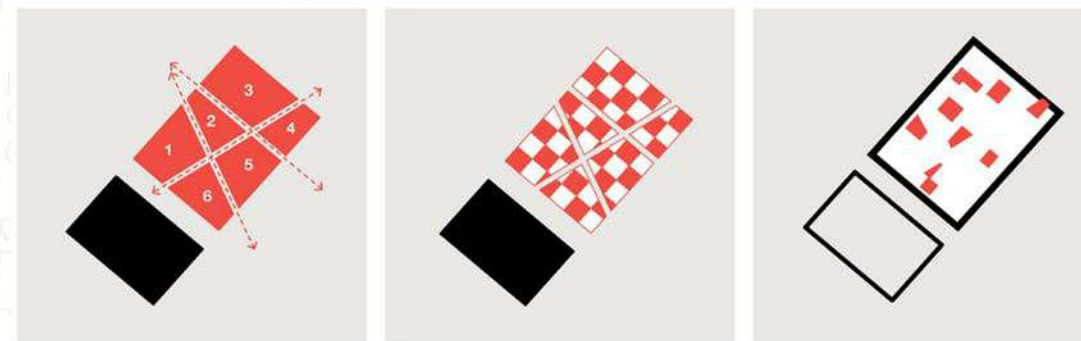
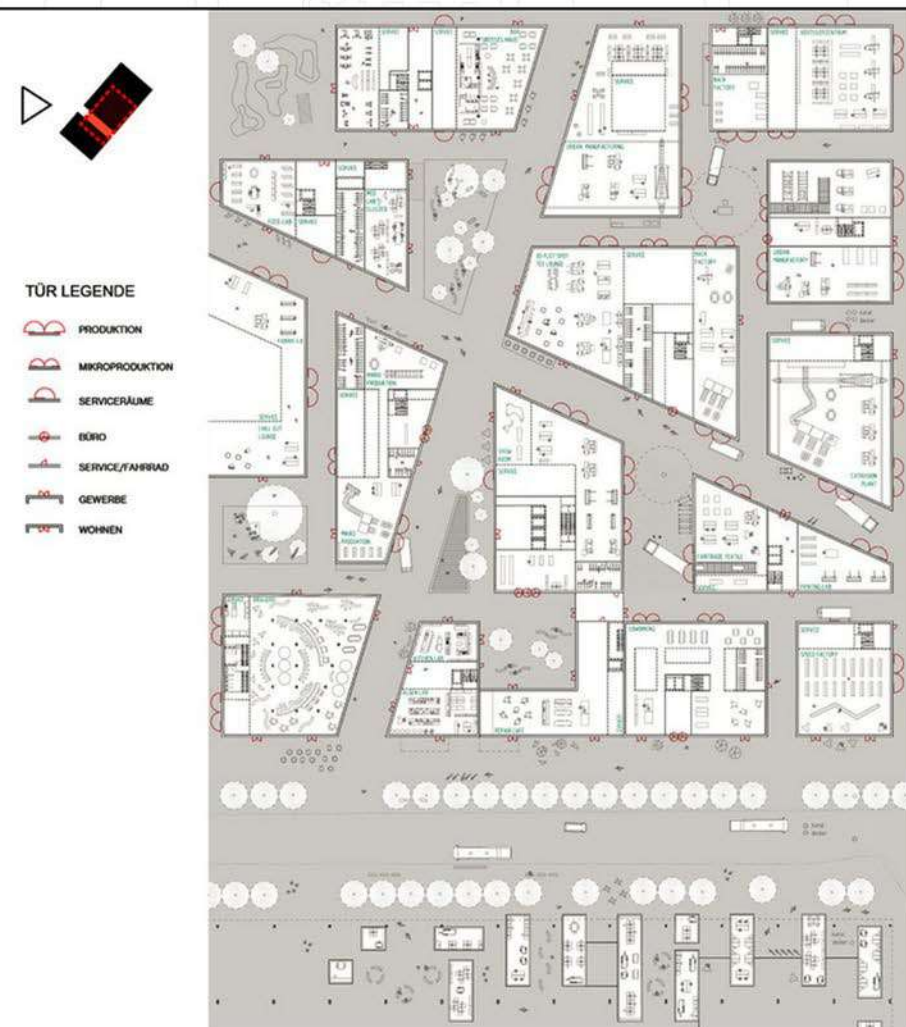
STREET VIEW

This street is a strong reference project for us for two reasons: on the one hand we imagine the **green surfaces** as small **islands** on our streets, which interrupts the unanimity of the pavement. On the other hand we also wanted to play with the heights of the buildings to create a friendly and **diverse atmosphere**.



P+R: SOUND BLOCKAGE, GREEN FACADE

The development of the West8: GWL Terrein in Amsterdam has some longer and higher buildings on the sides which are **blocking the noises** of the traffic. The **green facade** of the Oasia hotel in Singapore also provided us references for our P+R parking building.



THE DESIGNATION OF THE MAIN PATHS, THE CUTS

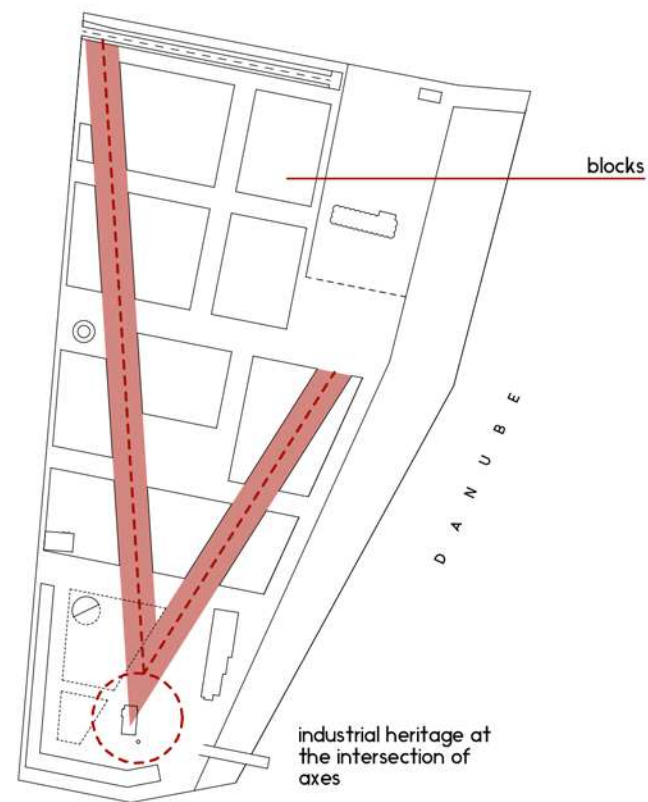
The Supercampus/ The Big House project in Vienna inspired us to step out from the perpendicular coordinate-system and to use a **raster-like web**. We created **angular cuts** in this system which connect the **main nodes** of the area.

The combination of the raster and the angular cuts provide the main line of our development. In some justified cases, for example at the bottom of the design area and in the case of the kindergarten-nursery and sport hall we stepped out of this system.

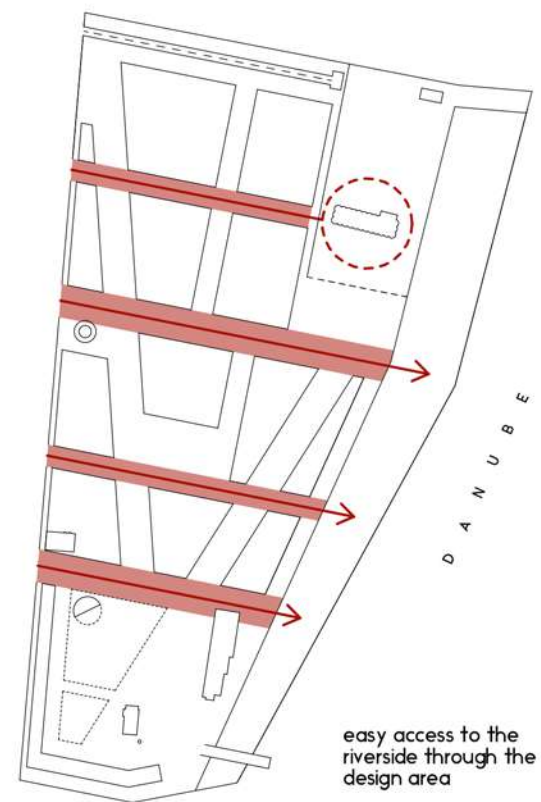


West8: GWL Terrein

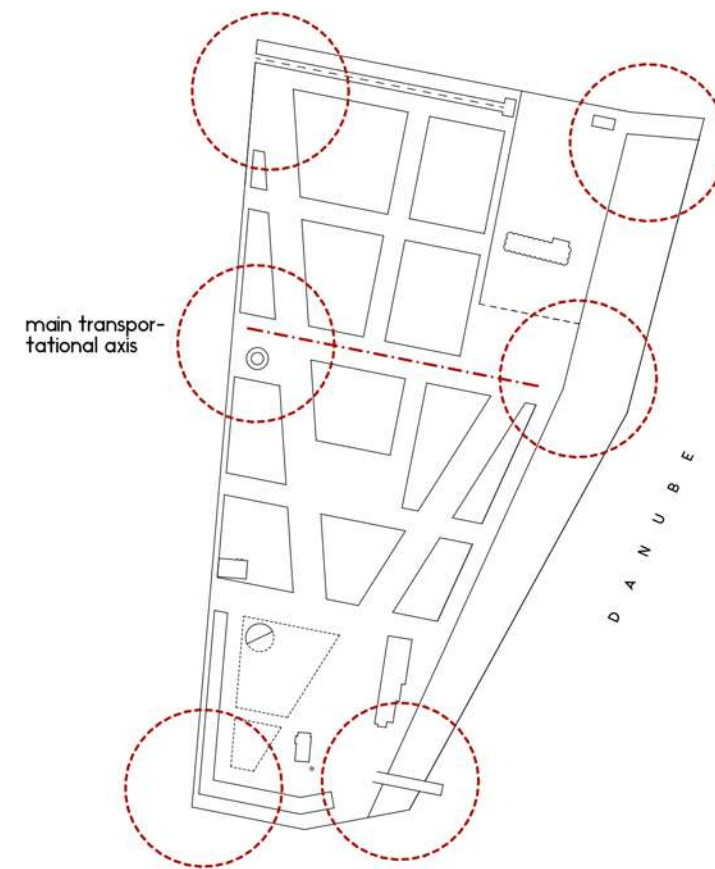
CUTS



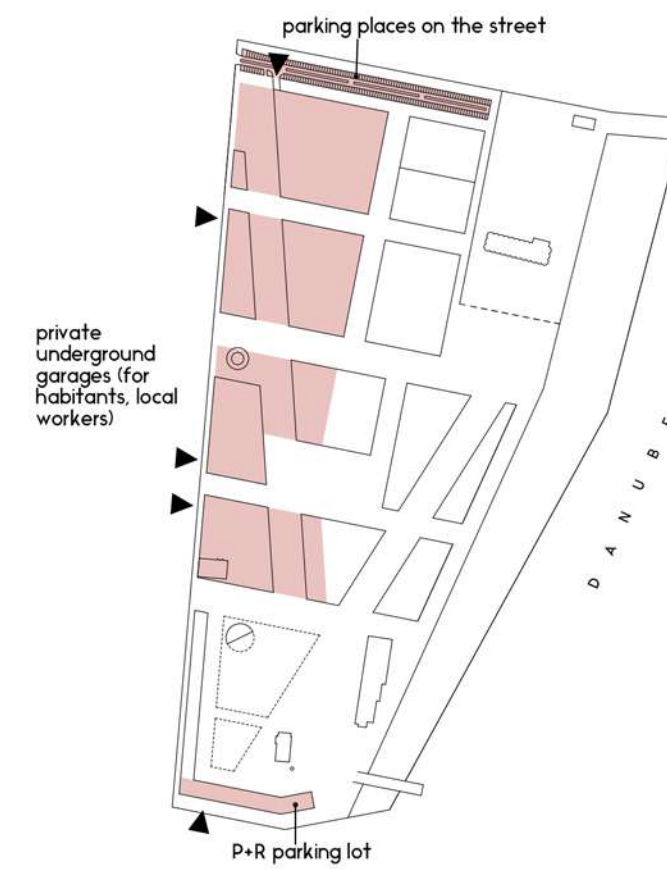
INTEROPERABILITY



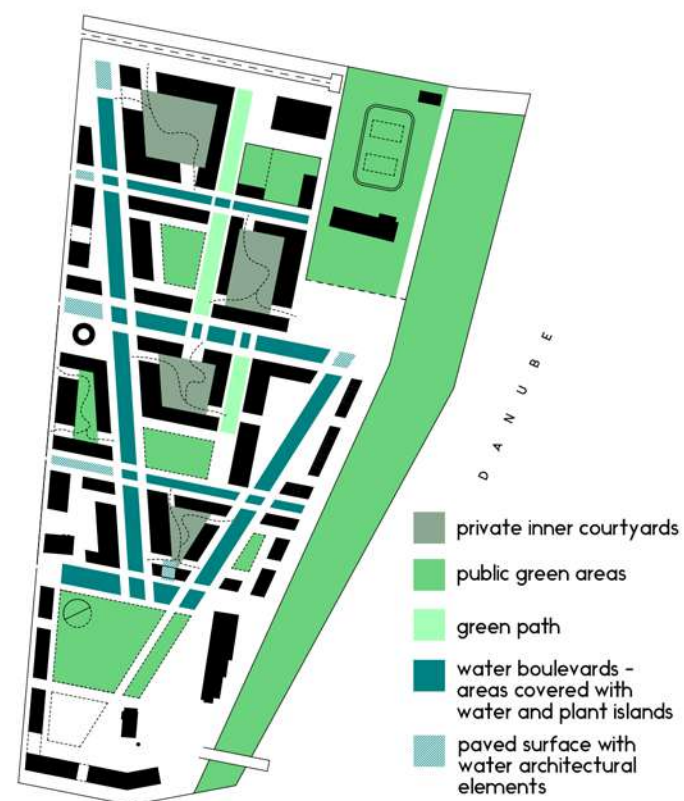
PLACES OF ARRIVAL



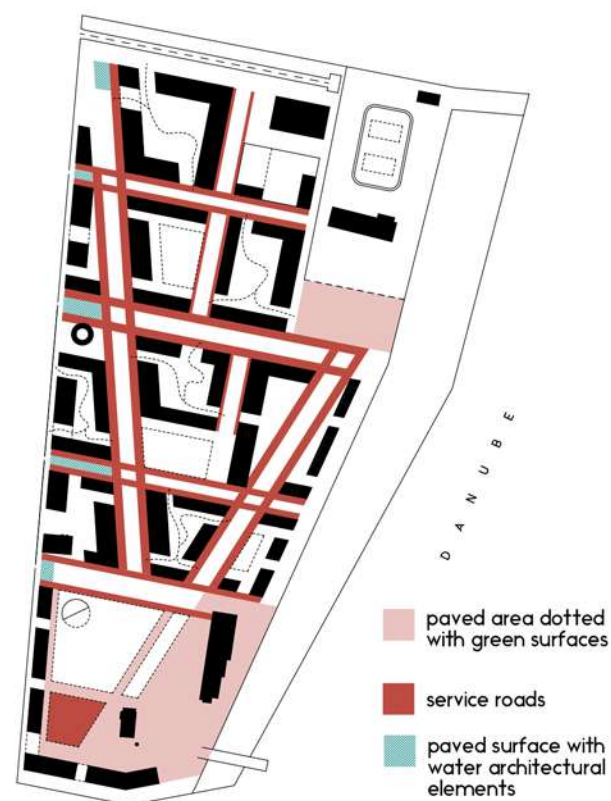
PARKING



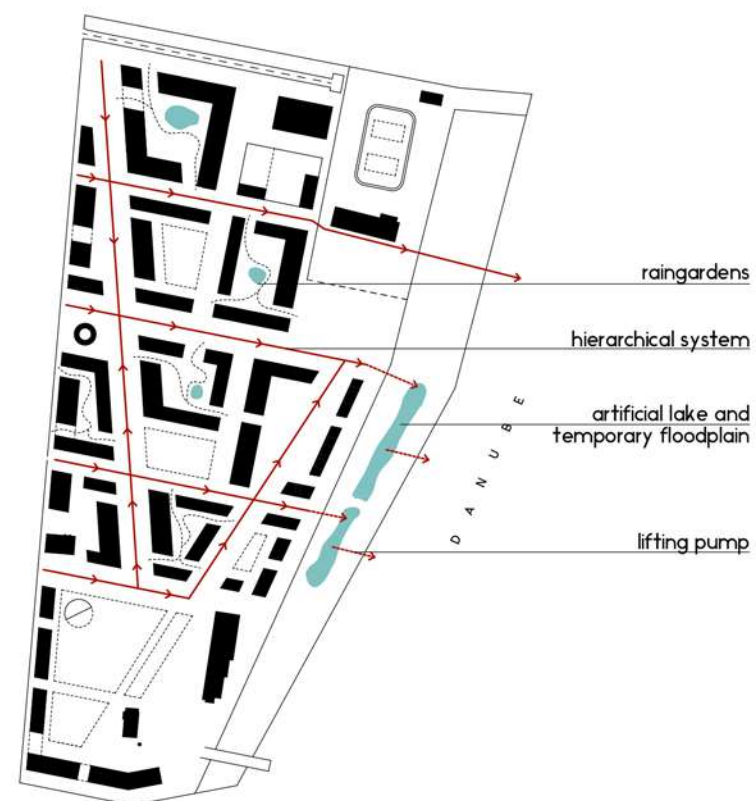
GREEN AREAS



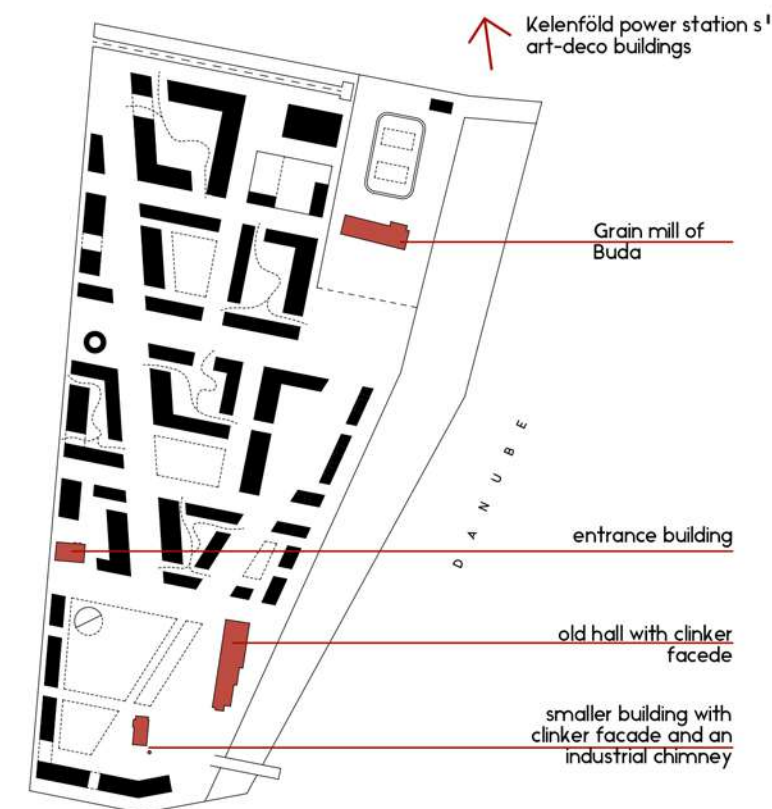
COVERED AREAS



DRAINAGE SYSTEM



REMAINING BUILDINGS



On this site plan we can picture how our development concept fits into the **urban fabric** of Budapest. We tried to design buildings which can easily be integrated into the **industrial environment** and can also create an **order** in this otherwise unsystematic area.

We transformed Budafoki Street into a **sustainable street** with reducing car traffic and creating a tram lane connecting the city center to our site. We also **rehabilitated the passage** alongside the Danube with installing walking, running and cycling lanes. With this step we created a **coherent green belt** next to the riverbank, linking our

Legend

-  water boulevards - areas covered with water and plant islands
-  green path
-  paved surface with water architectural elements
-  tram line
-  rehabilitated passage on the riverbank
-  Budafoki Street
-  boat route



Kopaszi-gát

Rehabilitated passage
running and cycling lane

New pedestrian bridge

Sustainable Budafoki Street

Riverside passage

Marina

Galvani bridge

During our design process, we wanted to create a sustainable, human-scaled and playful development. The basis of our plan are **framed blocks**, which open up mainly on their corners, creating a **loose homogenic effect**.

We transformed the riverside of the Danube by adding different **landscape architectural elements** in a mosaic-like pattern (slopes, stairs, ...), at the same time preserving its **natural form** (for example with floodplain plants and forests).

We created a conceptual plan for the **local precipitation storage and drainage system** (with raingardens, artificial lakes, temporary floodplains and a water network which weaves through the entire quarter), whose water-architectural elements give a **unique picture** to the district's streets.

Legend

-  trees
-  green path
-  water boulevard
-  remaining buildings
-  tram line
-  running lane
-  bicycle lane
-  outdoor community functions



Total site area: 213 400 m²

Roof area: 38 453 m²
Site coverage: 18 %

Total floor area: 188 642 m²
Floor area ratio: 0,88

Total green area: 124 367 m²
Green area percentage: 58,3 %

Estimated number of apartments:
1500 - 1600

Floodplain forest

Cascading shore

Riverside passage

Artificial lake and
temporary floodplain

Cascading, green shoreline

Sloping shore

Developed shoreline

We kept a few industrial buildings, and gave them new functions, such as different **cultural uses**, a community house and we **moved** the climbing gym into the Grain mill of Buda. We planned a kindergarten and a nursery, a sports hall (also for the children to use), a studio theatre, an outdoor stage and a local market.

We established **community bicycle storage and renting spaces** to encourage the use of sustainable transportation and **carsharing**.

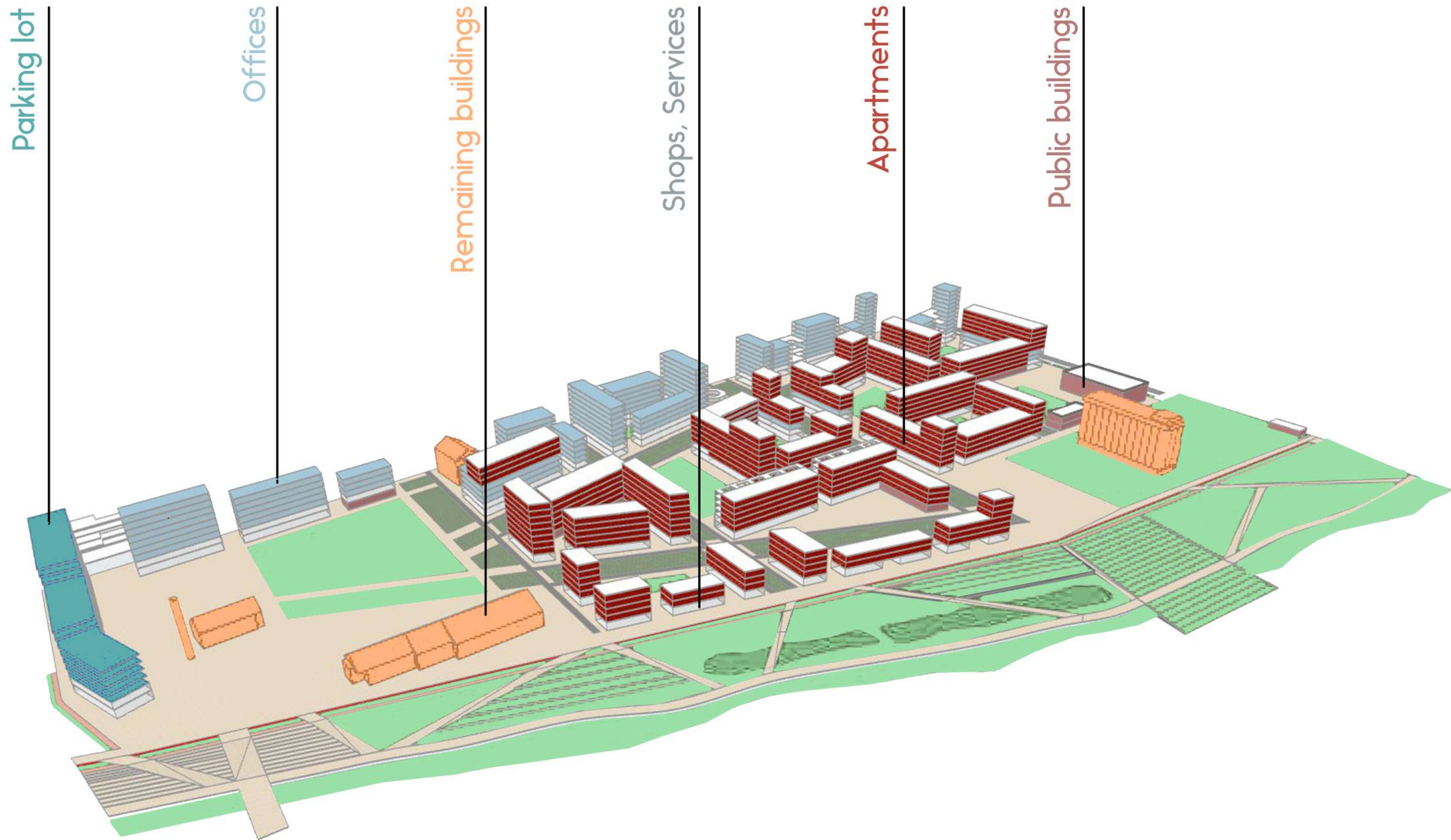
There is going to be significant noise pollution due to the great traffic of Galvani bridge, so we created a blocking at the bottom of our area, which functions as a **parking lot**, while at the same time has some **rentable rehearsal studios** for local bands to practice in (at the moment there are multiple groups who are rehearsing in the old industrial buildings of the area).

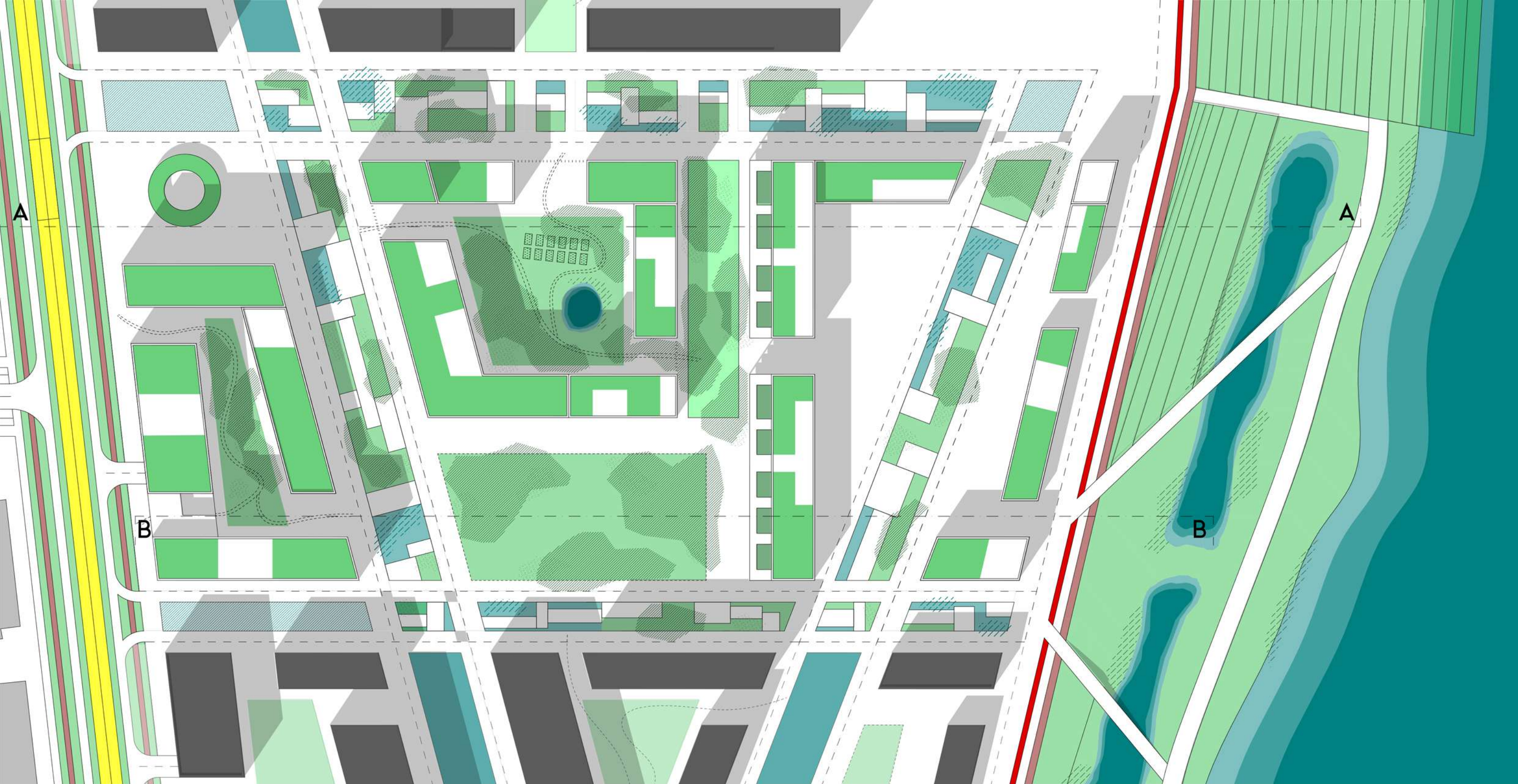
Legend












-  trees
-  green path
-  water boulevard
-  remaining buildings
-  tram line
-  running lane
-  bicycle lane, community bicycle storage and renter
-  community functions

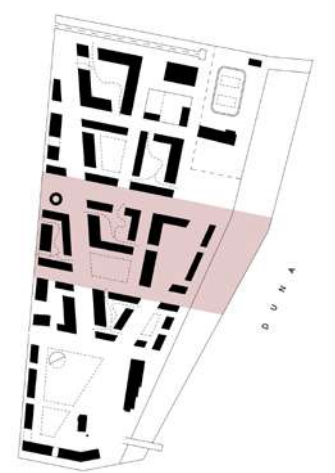


-  Kindergarten and nursery
-  General practitioner
-  Sports hall
-  Climbing gym
-  Bank
-  Showroom
-  Studio theatre
-  Creative house - art centre and workshops
-  Community house
-  Market
-  Parking lot with rehearsal studios for local bands
-  Outdoor stage
-  Administrative institution



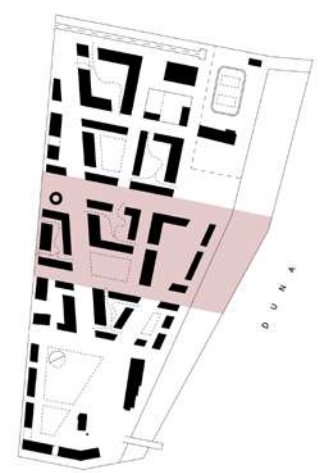


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|--|------------------|---|------------|---|--------------|---|--------------|
|  | aquatic plants |  | trees |  | green path |  | tram line |
|  | vegetable garden |  | water |  | green area |  | running lane |
|  | bushes |  | green roof |  | cycling lane | | |
















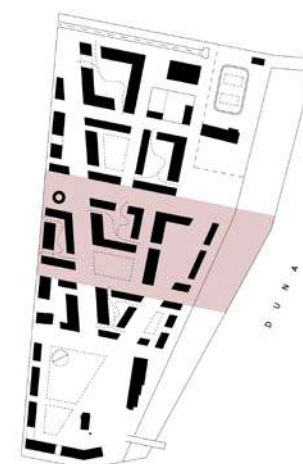


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|---|---|--|---|---|--|
|  aquatic plants |  trees |  staircases |  green areas |  other functions (bank, show room) |  running lane |
|  vegetable garden |  water |  shops |  additional functions for the apartments |  green path | |
|  bushes | |  cyclist point and cycling lane |  restaurants, coffee shops, grocery stores |  tram line | |





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|---|---|--|--|--|
|  aquatic plants |  trees |  staircases |  green area |  other functions
(bank, show room) |
|  vegetable garden |  water |  apartments |  green path |  cycling lane |
|  bushes | |  offices |  tran lane | |



Sustainable Budafoki street

Private underground garage

Inner courtyard

Green path

Services on the ground floor

Grain mill of Buda

