



# LANDSCAPE ARCHITECTURE DESIGN

Masaryk University: Faculty of Law



# DESIGN FOR REPRESENTATIVE SPACE

Masaryk University: Faculty of Law

LANDSCAPE ARCHITECTURE

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## CHOSEN PLACE

Green area in front of MU: Faculty of Law and parking



## FIRST LOOK INSIDE

This space is part of urban plan, that is following the historic town. Therefore the style of the buildings is new, but the axis are going straight from the old town.

Place leaves shady feeling, especially in the winter or in autumn and from the ear-

ly spring, what is main time when students are in school and they can use the space, but it is unfriendly looking, almost we can said rough.

## GALLERY FROM OBSERVATION





Faculty of law (MU)



Institute of Analytical Chemistry (AV CR)



Faculty of civil engineering (BUT)



Moravian regional library



statue of second czechoslovak president, Edvard Beneš is high about 2.5 to 3 meters counting with the base (photo - June 2021)



two user's path along the bushes are parallel with the road and main fasade of building of MU law faculty (photos - February 2021)





current urban furniture and barriers, concrete flowerpots in different shape, wooden benches with at least four bins around the little square with the

statue and stone pillars in front of the square, also different materials for the paving (photos - June 2021)

examples of deciduous trees (linden, poplars, horsechestnuts) and bushes from the area that surround the square and the most of the area is

covered by grass that is in hot days dried out (photos - June 2021)



parking on the left side of the law faculty



natural parking, on the right side of the law faculty  
photos - June 2021



green accents around the parking lot:  
Horse chestnuts with purple and white  
flowers and different species of plants of small  
and medium high (at least about 12 - 15 species)  
(photos - June 2021)



parking entrance is a long road with cash point  
and drop barrier, it look comfortable from the car  
driver sight, but is too big from the passengers



view, too much concrete in the area makes this  
place uncomfortable hot in summer days  
(photos - February 2021)



# ANALYTICAL PART

## INTRODUCTION and BRIEF HISTORY

## CONTENT

### ANALYTICAL PART

#### INTRODUCTION

#### GREEN:

COMPARISON 1990-2020

PUBLIC GREEN

BRIEF LIST OF SURROUNDING GREEN

#### FUNCTION OF THE BUILDINGS:

BUILDINGS HEIGHT AND FUNCTION

UPCOMING BRNO URBAN PLAN

#### TRANSPORTATION:

PUBLIC TRANSPORT

CYCLING

NOISE MAPS

#### SWOT ANALYSIS

#### OPPORTUNITIES

### DESIGN PART

#### BASICS:

INTRODUCTION

SPACE OPPORTUNITIES

#### 4 BASIC KINDS OF DIFFERENT SPACES:

DEBATE SPACE

BETWEEN SPACE

COMMON SPACE

NATURE SPACE

#### BEING NATURE FRIENDLY:

IDEAS

BASIC DESCRIPTION

#### GREEN AREA DESIGN:

1ST PLAN

DESIGN DESCRIPTION

FINAL GROUND PLAN

VIEWS AND CROSS SECTION

DESIGNED PARTS

DISTRICTS

#### PARKING AREA DESIGN:

1ST PLAN

DESIGN DESCRIPTION

FINAL GROUND PLAN

VIEWS AND CROSS SECTION

DESIGNED PARTS

PARKING AND RELAXING

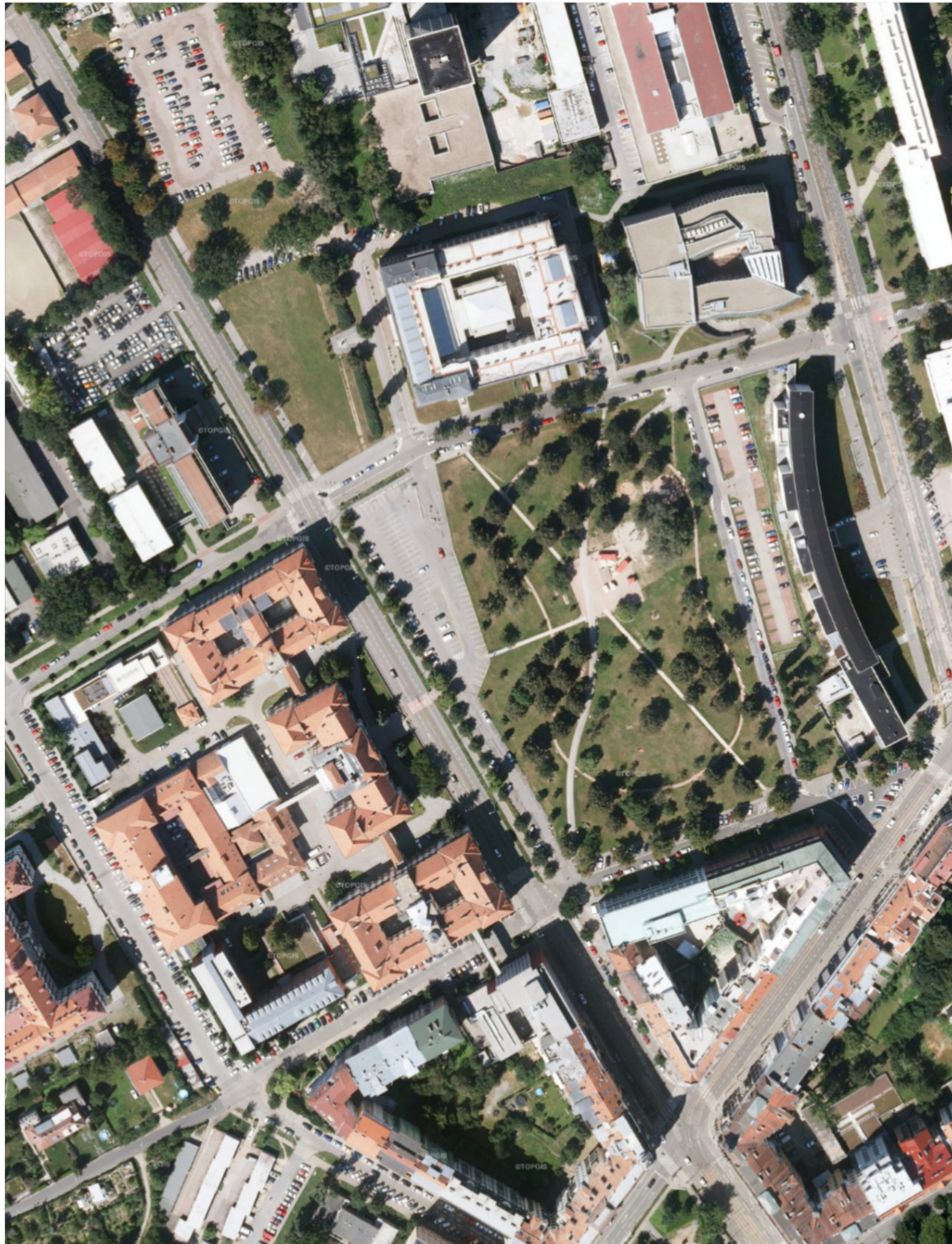
Spot is located between faculty of law and Institute of Analytical Chemistry of Czech Academy of Sciences. The building of Masaryk faculty of law was built between years 1928-1932. It was supposed to be part of Academic district and in spirit of this building (monumental classicism) should be built at least three more buildings for other faculties in Brno. Behind the law faculty there is the Moravian Regional library with its distinctive look in form of open book.

More to the south is

Björnson's orchard, but it is more like a park, with some children attractions and coffee stand named Piknik. It supposed to be the centre of the academic district. From most of the side of this green area there are parking plots, that look to be over-numbered in a wider view. On the place of parking before the LIDL store, in the past used to stand carousel attractions. On the other hand, the parking lot in front of engineering faculty was till the years around 1953 part

of small gardens, after which the Bjornsons gardens get its name.

What is curious, the green place in front of faculty of law was not for more than 50 years changing a much, only some nuances in appearance. But in future, Brno is planning great corridor for cars, coming straight through the parking and then green area in front of faculty of law.



## ORTOPHOTO 2020

Now there is much less trees, as they where not accepted by cars or just give up trying to live with people in town. I am not sure..

But we can tell that there is too hot in summer days and the wider parking lot is most of the time abandoned because of that.

People love to spend time in Bjornson orchard, but it is mostly used for short walks of dog owners or students who pass the park as a short-cut. Only a few really want to stay in here, take a refreshment from the Piknik box stand I suppose.

1:2000



## ORTOPHOTO 1990

In the past the area of green in front of law faculty had the same look as today. From the Bjornsons gardens and the line of trees around the main street there might be much bigger shadow that it is in nowadays.

Can we tell that managing of town green is not that liberal as it once was?

Are they cutted more than they can grow in the next year?

Was the choice about new parking lot in front of planned Lidl store a good thing?

1:2000





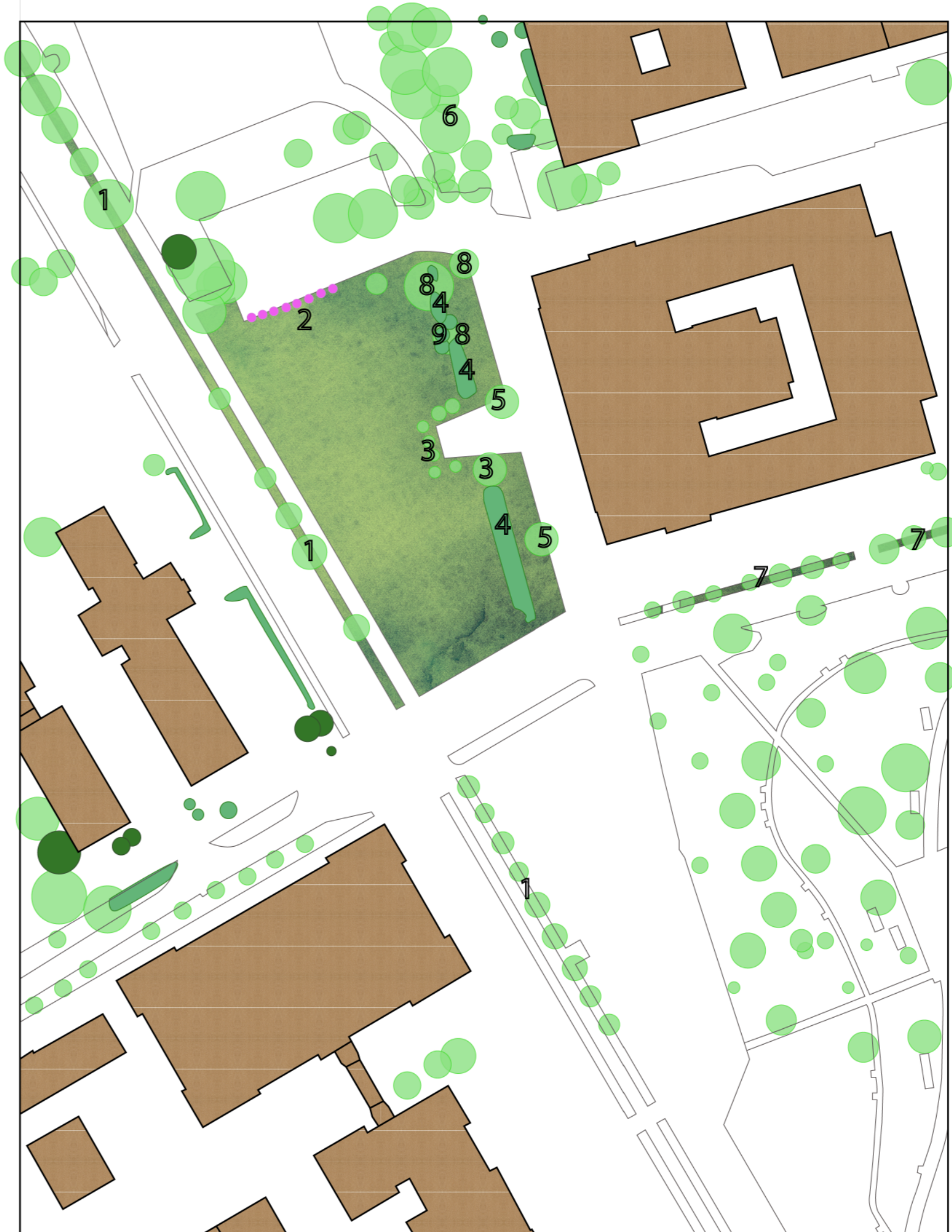
**PUBLIC GREEN**

**MAP LEGEND**

-  building
-  town green
-  private green
-  foliage tree
-  conifer tree
-  shrubs
-  magnolia tree
-  flowerbeds

Chosen green area neighbors with the Bjornson's orchard which is as direct opposition to the wide grass area. The biggest trees grow there and smaller ones are in lines surrounding the nearby roads and buildings.

1:2000



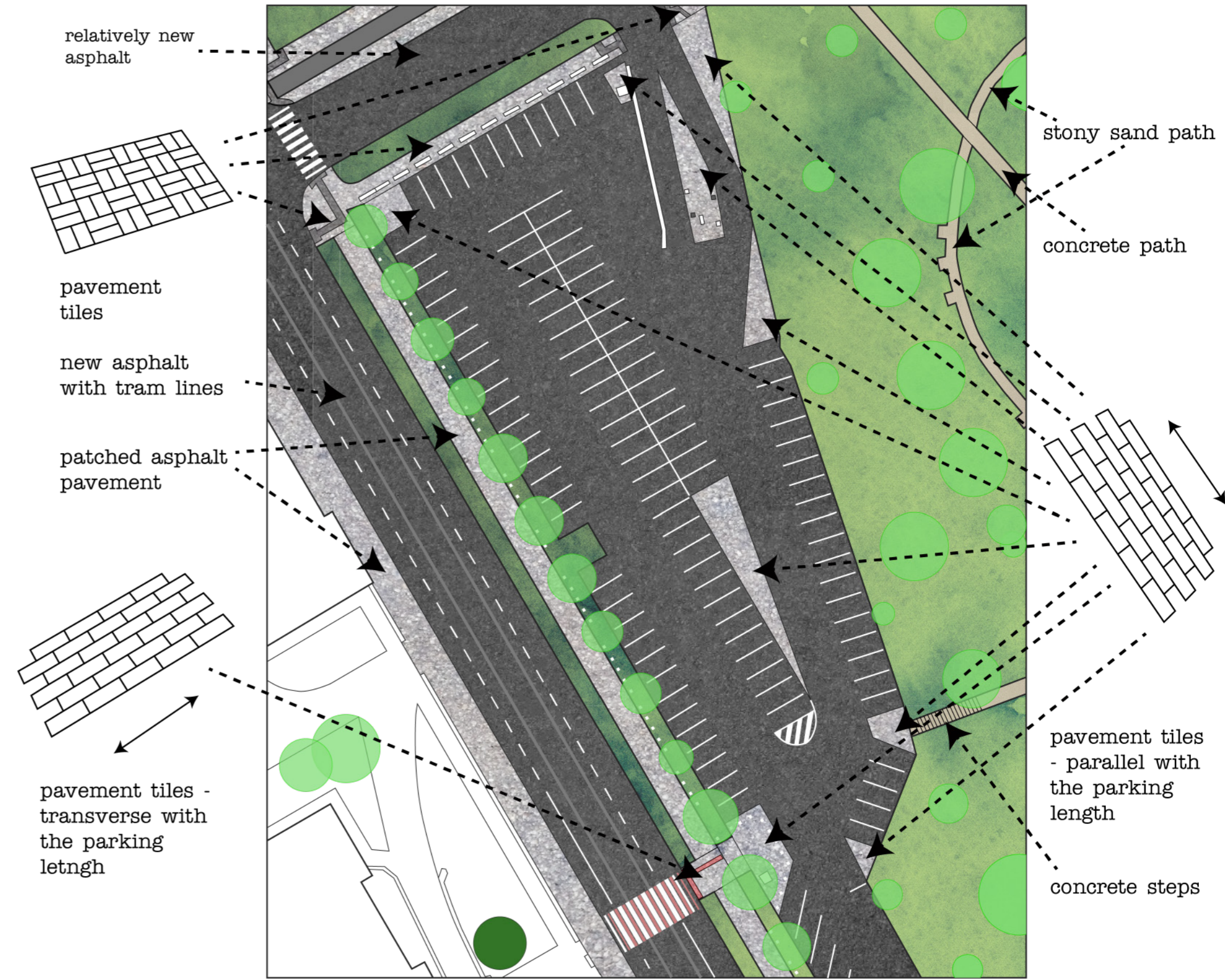
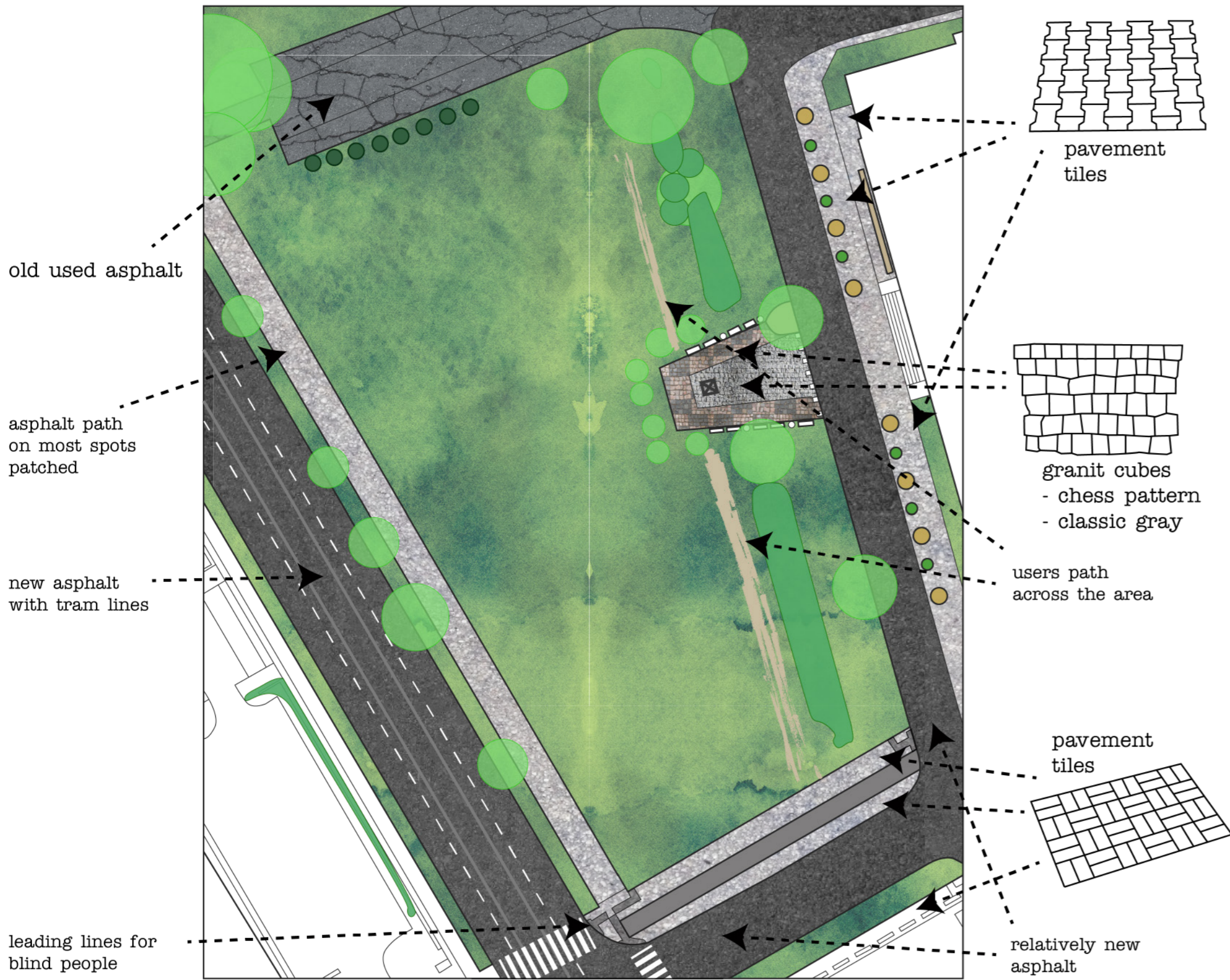
**BRIEF LIST OF SURROUNDING TREES**

- 1: Aesculus hippocastanum (horse chestnut) in a line along the path
- 2: climbing plants in the pots (more species)
- 3: lindens (7 new, 1 older)
- 4: deciduous bushes in line
- 5: 2 high poplars about the same age
- 6: planting of deciduous trees (many different species)
- 7: Tilia cordata 'Greenspire' and Tilia euchlora - growing in a line
- 8: deciduous trees - solitaire
- 9: tree solitaire bushes

1:1000



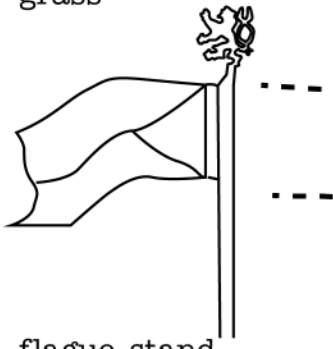
# USED MATERIALS



# URBAN FURNITURE AND SPECIFIC ITEMS



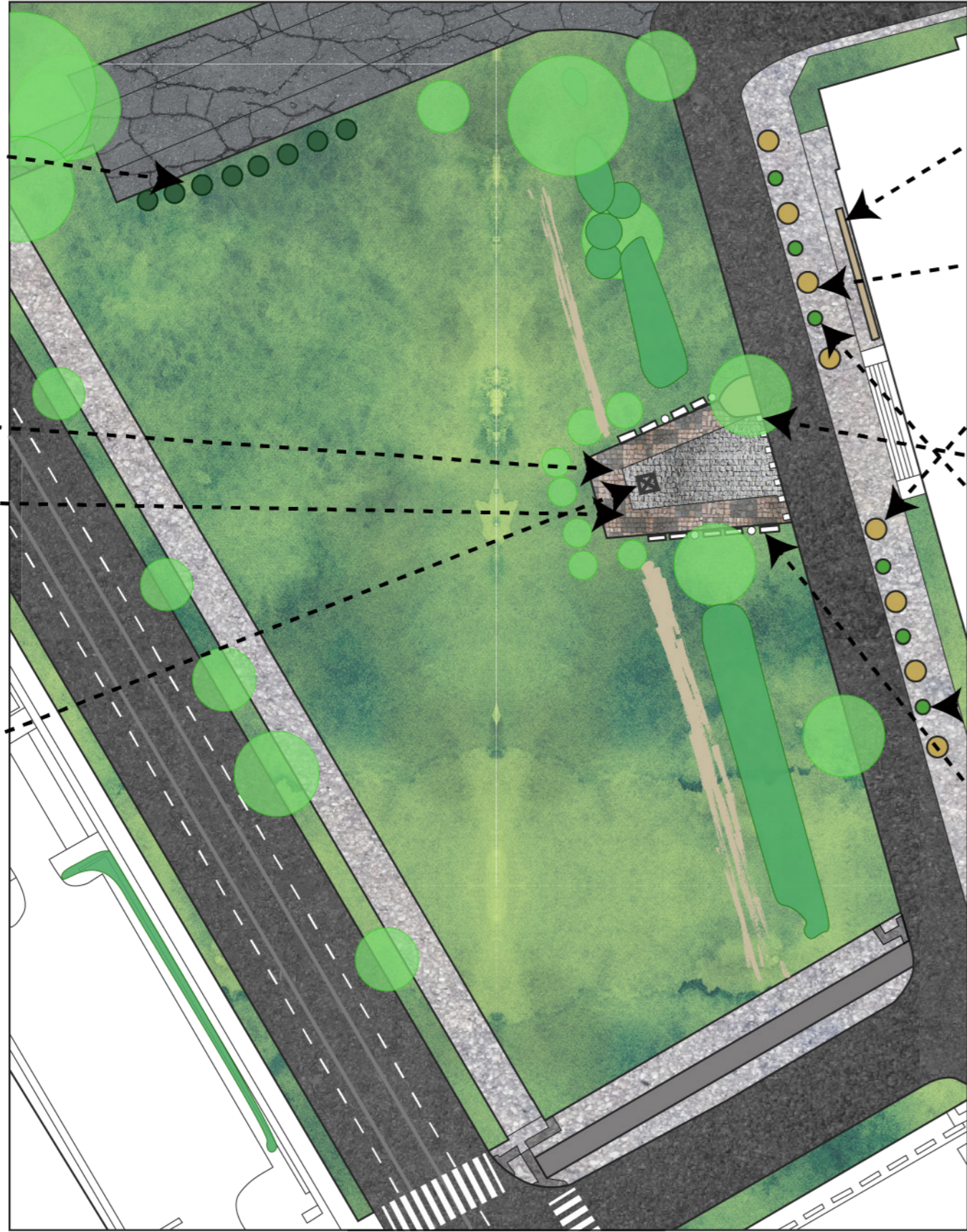
concrete flowerbed with climbing plant and grass



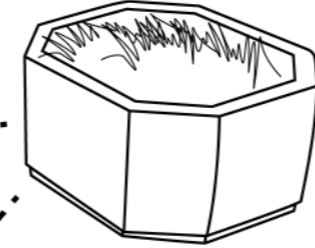
flagpole stand with depicted golden lion



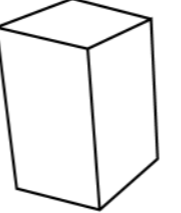
E. Beneš statue - second Czechoslovakian president



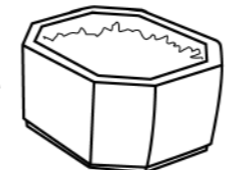
bicycle stand



concrete flowerbed with grass



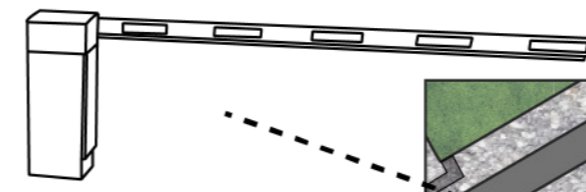
stone pillar - barrier



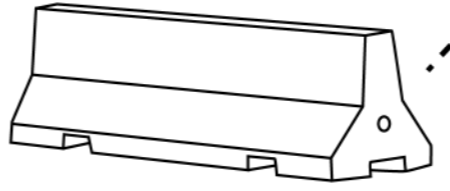
concrete flowerbed with small green



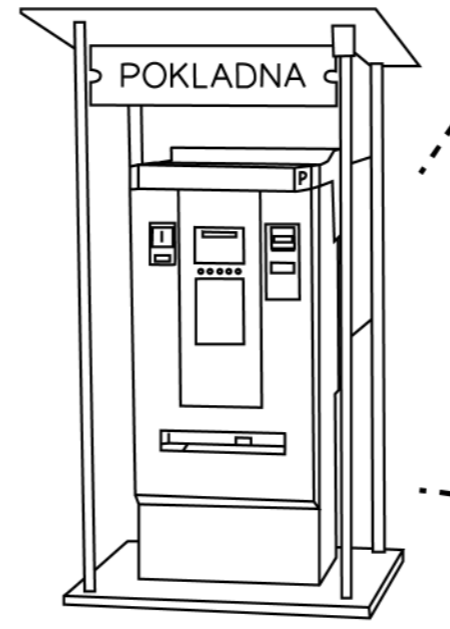
wooden benches and old metal bins



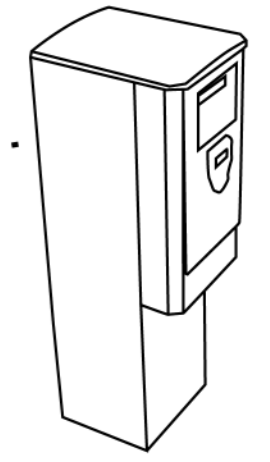
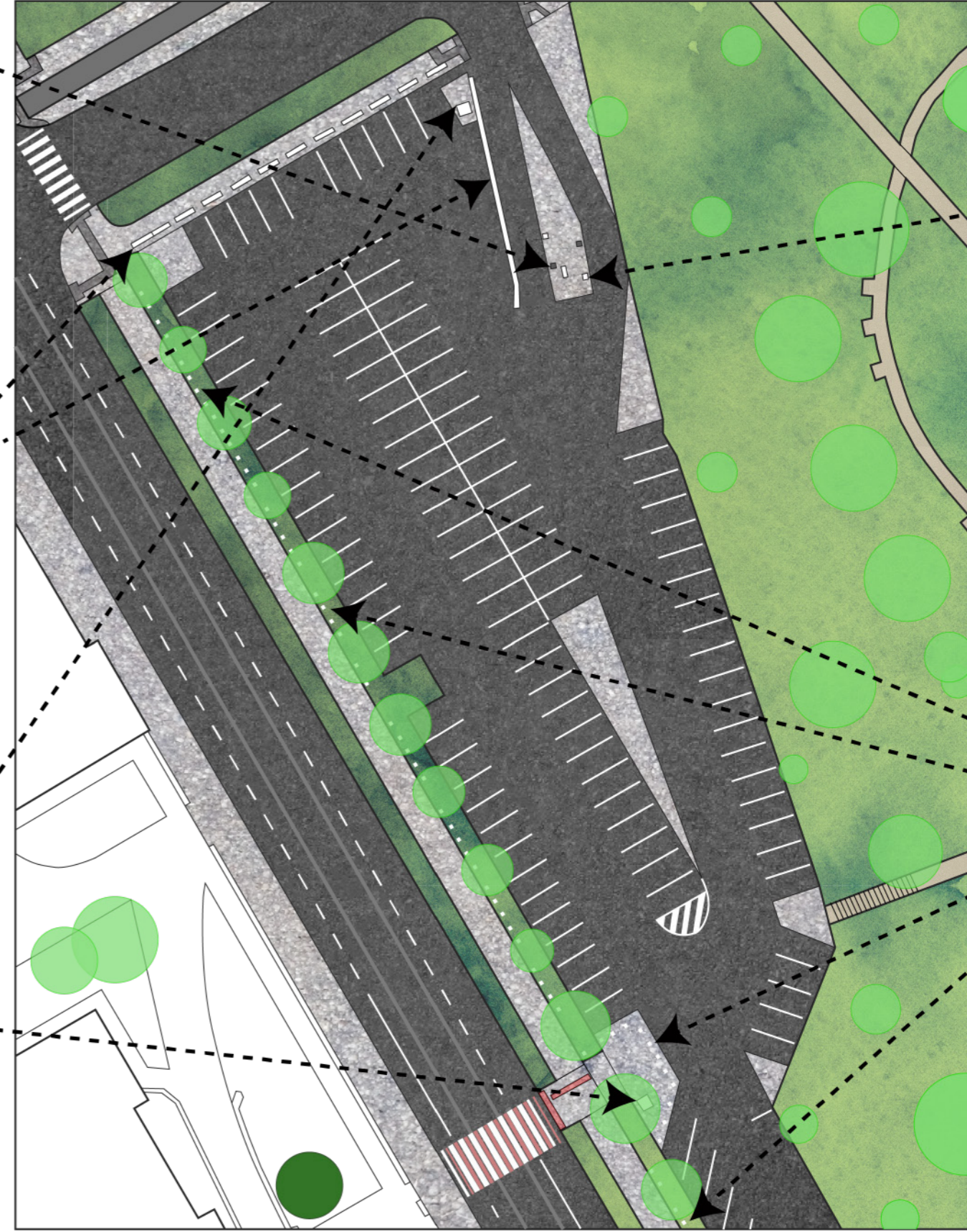
parking "gate"



concrete parking barrier



cash desk for parking lot




car cards reader



stone barrier in pillar form

1:500  N

1:500  N

## FUNCTION AND HEIGHT OF BUILDINGS

Most of buildings around the place are for public use. Main are buildings of town for municipality of Brno. There are many offices as vehicle registration, public offices and so on. At the other side there are universities, which are generally public buildings, also health center and shops are at a distance.

These buildings should include public green space not only at one point, but continuing through the city.

And not only green spots, but space, which can be used by all generations of people.

Space which include grass, trees, paths for walker, space for thinking, relaxation, maybe refreshment bar. Those public space are worldwide well known, but many of which, they can't be used, because they are not around really used public space or are uncomfortable for passangers, is not safe or other problems may appear.

Space in front of the law faculty may be suitable for this initial condition. Nevertheless, Brno municipality meant this space for improving the roads from the south to the north, as the transport corridor in future Brno plan is depicted.

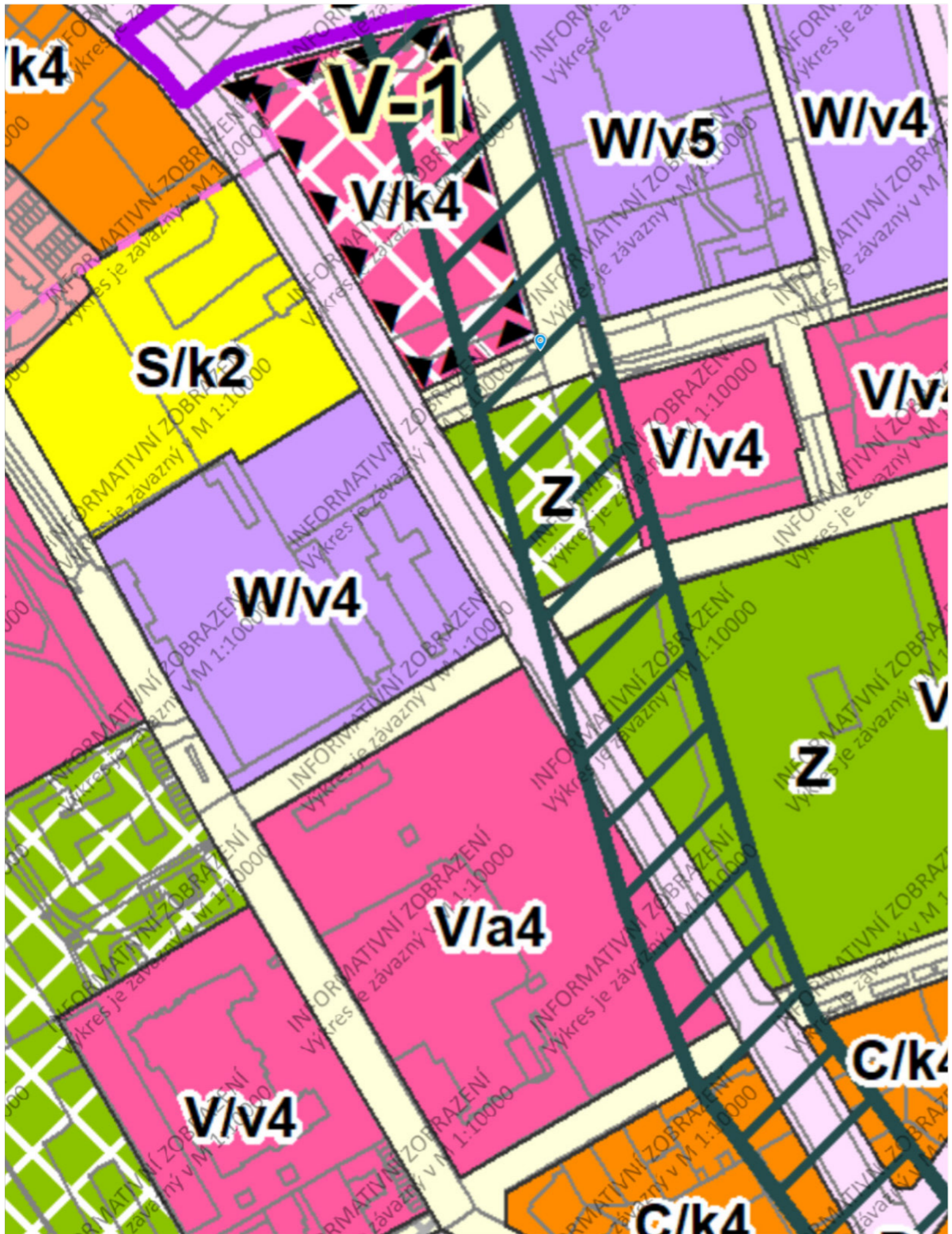


### BUILDING FUNCTION MAP LEGEND

- public buildings
- private buildings
- mixed use of buildings
- municipality of Brno special building description
- P parking lot
- VIII. number of floors

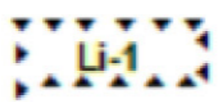
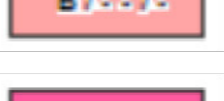
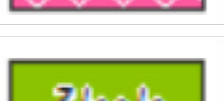
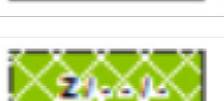
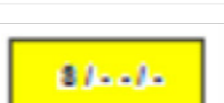
1:2000





FUTURE PLANS IN  
ACTUAL BRNO PLAN

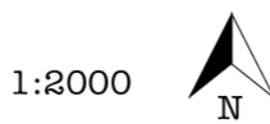
MAP LEGEND OF AREAS

-  north-south rail diameter
-  development sites
-  transport infrastructure
-  commercial equipment
-  mixed residential
-  residential
-  areas of public equipment
-  areas of public equipment that will change
-  areas of town green
-  areas of town green that will change
-  areas for sport

Source: gis.brno.cz

Prípravovaný ÚPmB  
- Návrh pro veřejné  
projednání

[Prepared Spatial Plan  
of the City Brno -  
Proposal for public  
discussion]



CITY TRANSPORT

As it is depicted in the previous image, the further plans for this great area is for transport. I suggest that it would be underground transport as Brno is planning have subway in the future.

As we would see, the city transport around the place is already dense and it is mainly because of the living function of the nearby building, offices and other civil facilities on the north. There is also a tram line, that cause huge noise every time it pass by.

At the end of transport analysis, you can see noise map in day and in the night. Despite the busy traffic, the parking plot which is part of the designed area is mostly unused, people use only the little part of it on the sought because it is closer to the healthcare centre and town.

That results in design that reduce the number of spots for car. Alternative way of transport in city as bicycle, car sharing and bike sharing is not really supported here.

It is depicted in the map with cycling transport, that the ways end and start out of nowhere so the road by the bike is not so safe and therefore people do not use it so much.

Against the bikes also plays the terrain of the city, because it is between hills, so most of the people do not want to hike it by themselves.



**PUBLIC TRANSPORT**

**MAP LEGEND**

- building
- town green
- private green
- public transport**
- tram line
- tram stop
- trolleybus
- bus
- car parking

1:2000



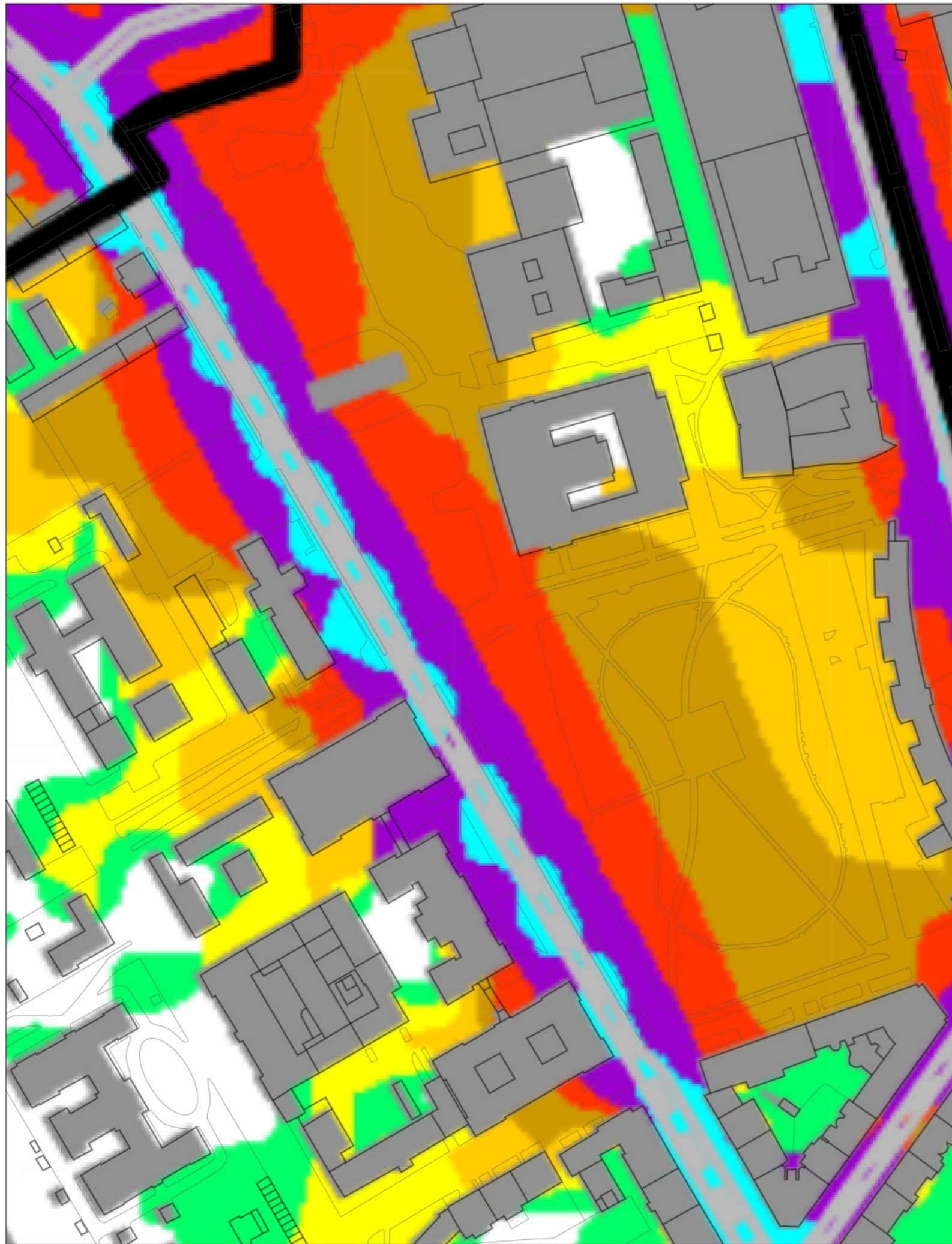
**BICYCLE TRANSPORT**

**MAP LEGEND**

- building
- town green
- private green
- cycling route (unfinished !)
- designed cycling route
- bicycle stand
- bike sharing (urban study)

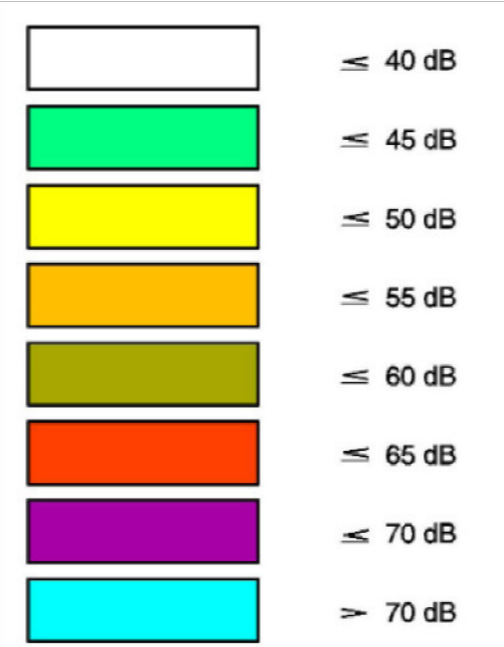
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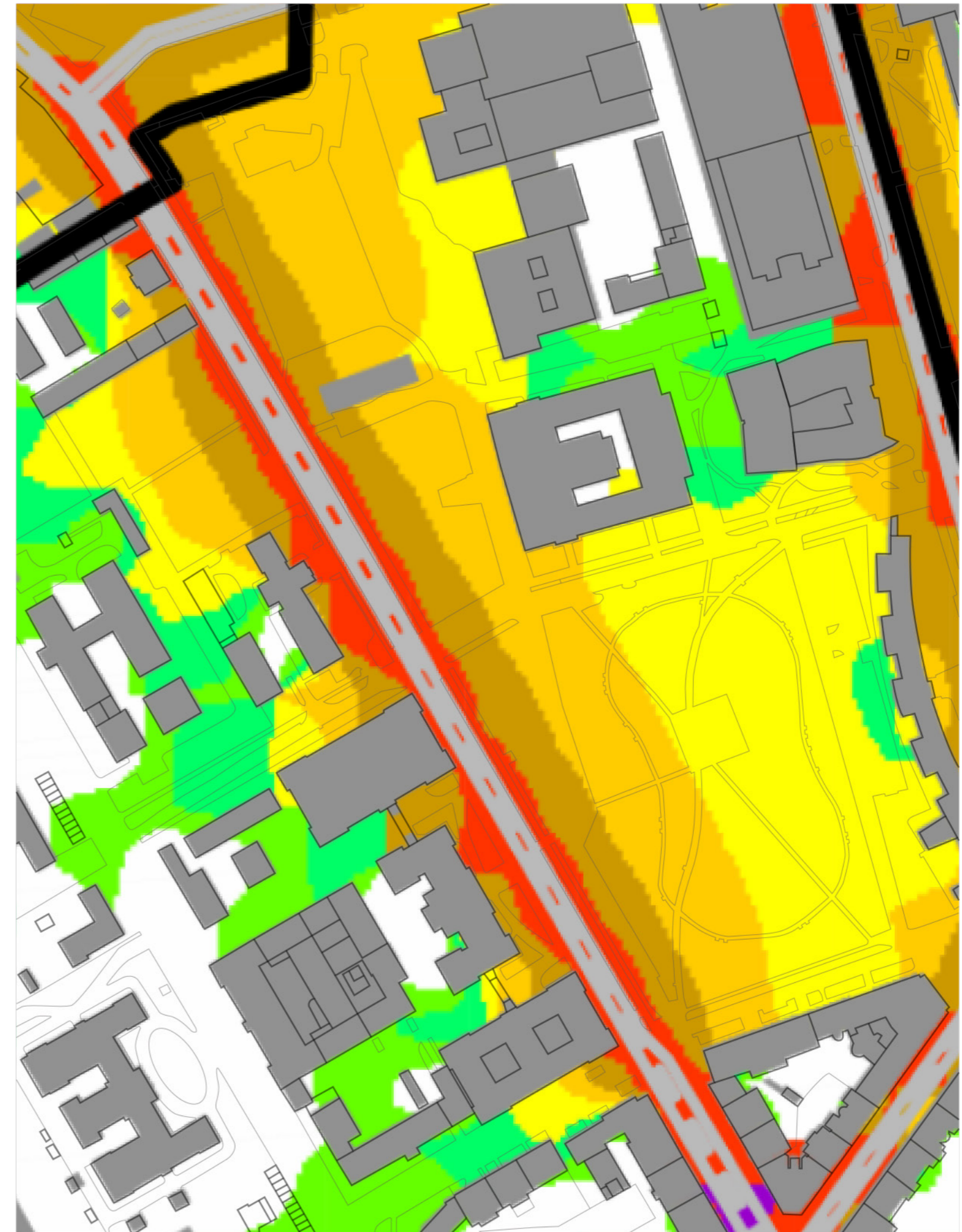


NOISE MAP - DAY

MAP LEGEND

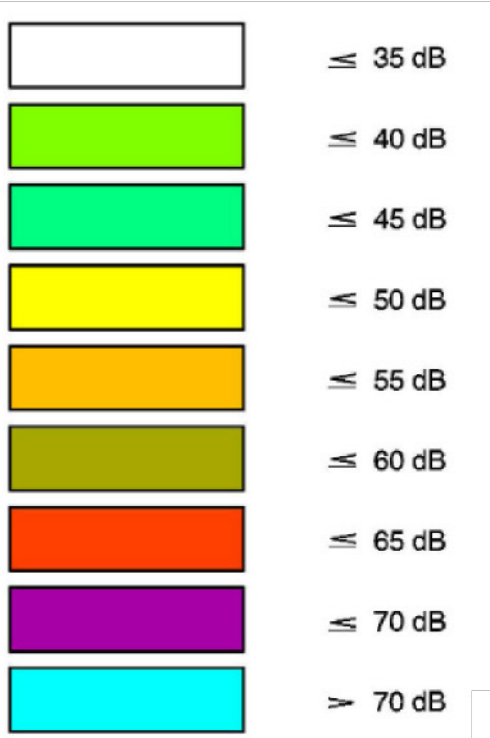


1:2000



NOISE MAP - NIGHT

MAP LEGEND



1:2000





# DESIGN PART

## INTRODUCTION

Design of the whole area takes into account previous analytical part and work sensitive with the area and its surroundings.

It brings examples of ecological way of treating the nature in the modern cities.

Design work with the connections between humans

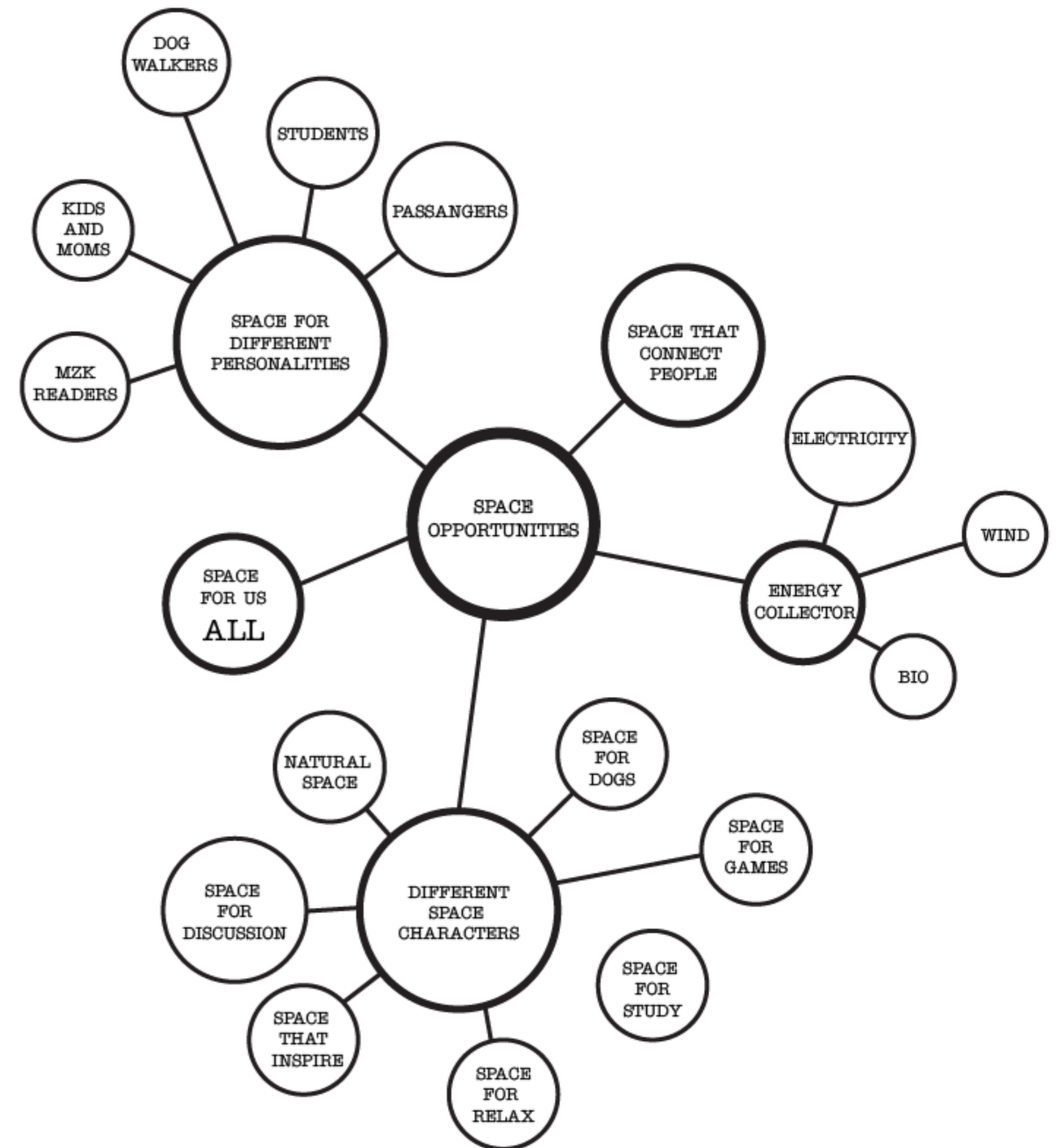
and nature. Provide different kinds of spaces in nature, with various animals.

Special design comes with the identity of the location that preserve the existing and bring back the extincted.

Bringing nature to the city can completly change the

climate, small water cyclus consisting of evaporating water can significantly reduce temperature in day.

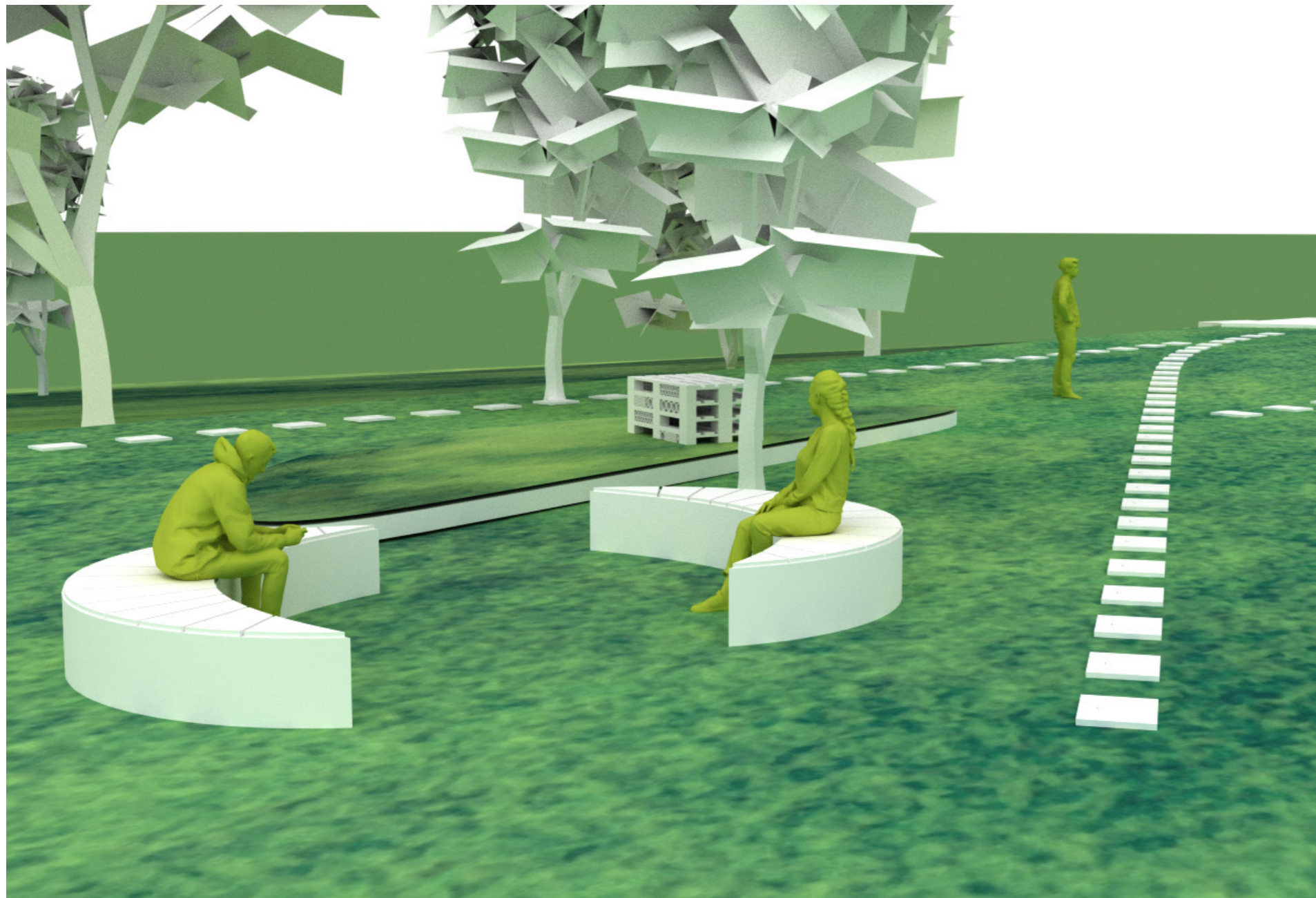
Teaching people and children about fragile nature ecosystems can in future change minds and help.



## DEBATE SPACE

comunication

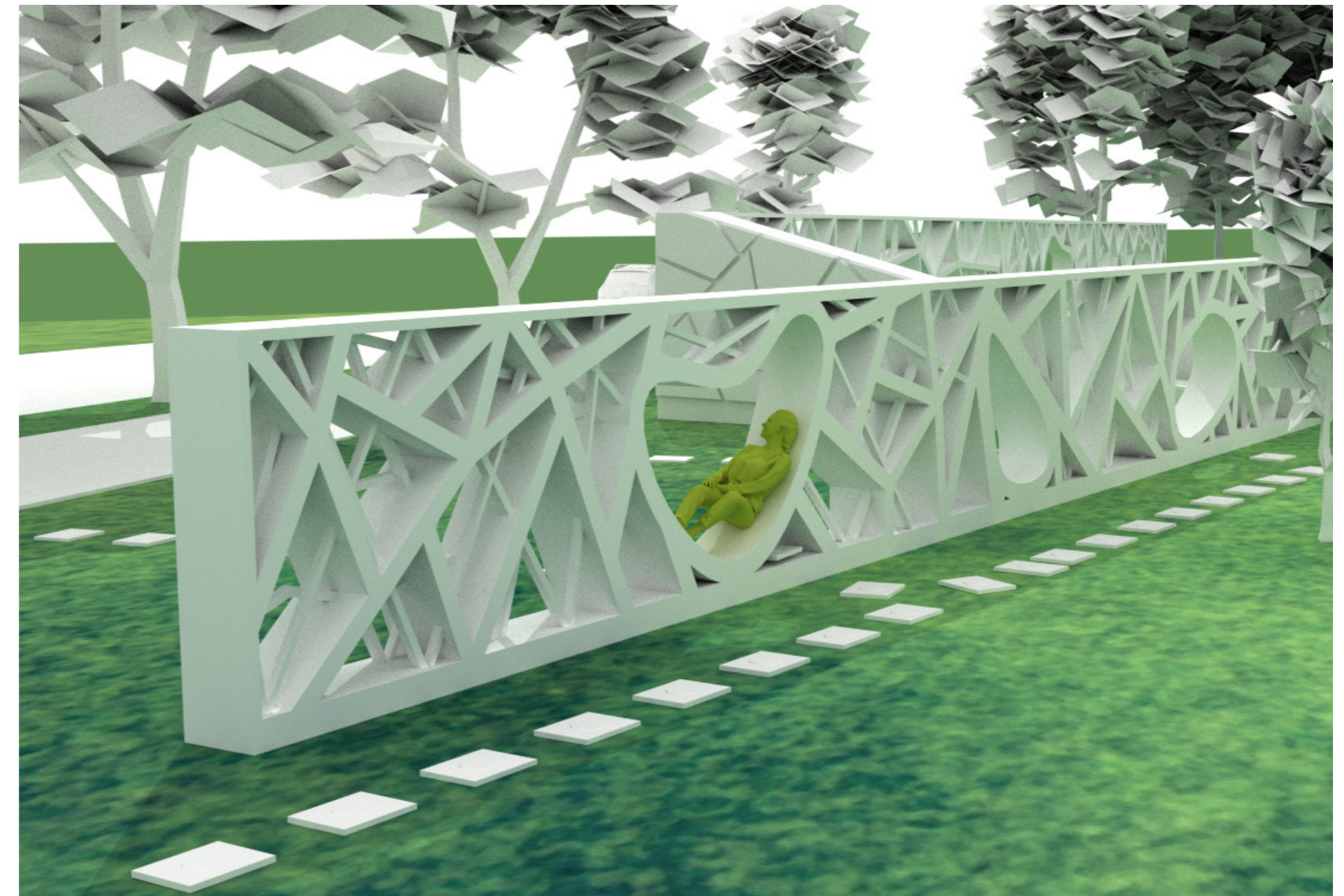
can be **point**  
and also **linkage**  
but mainly **relationship**



## BETWEEN SPACE

borders

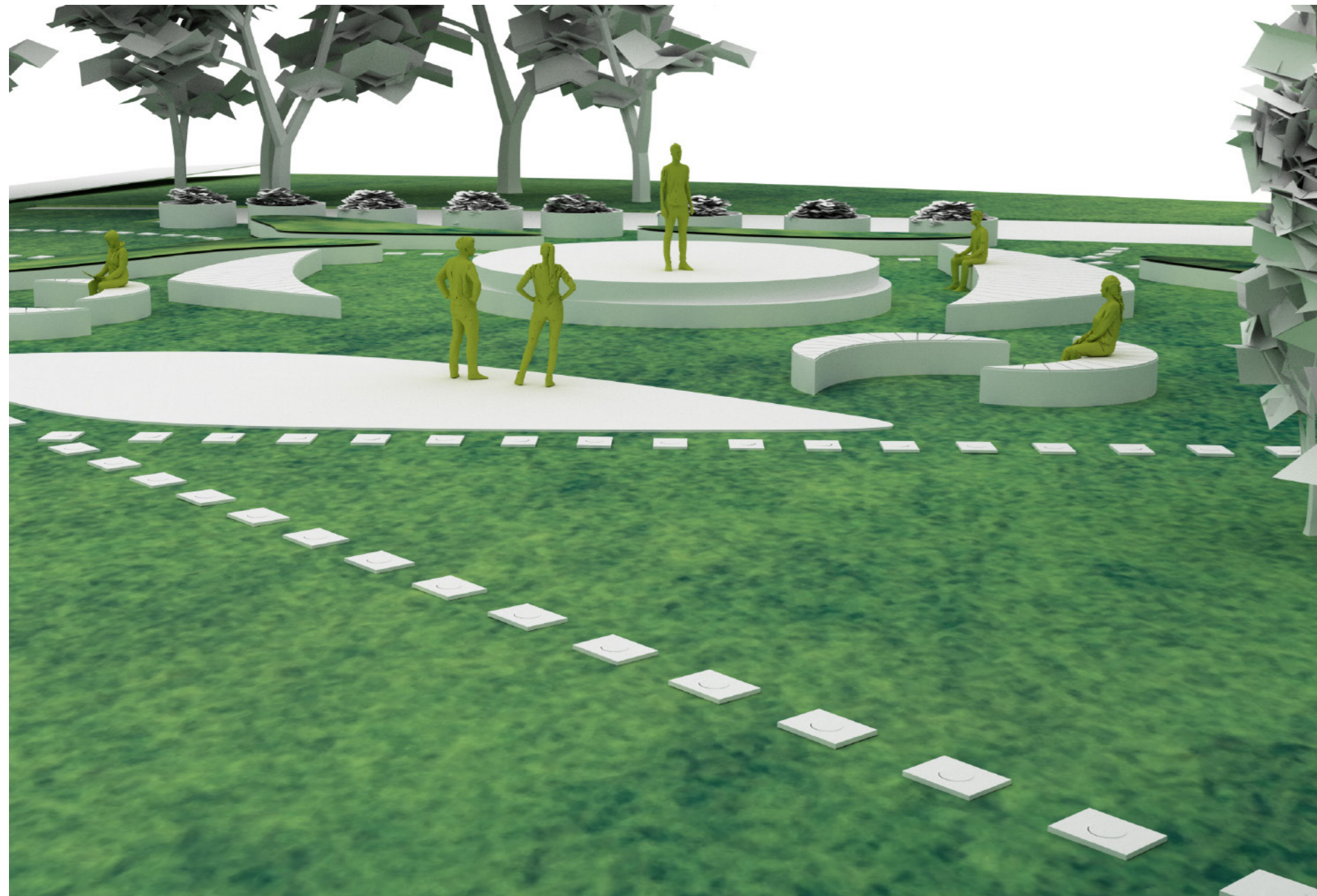
can be **barriers**  
and also **connection**  
and space for **relax**



## COMMON SPACE

platform

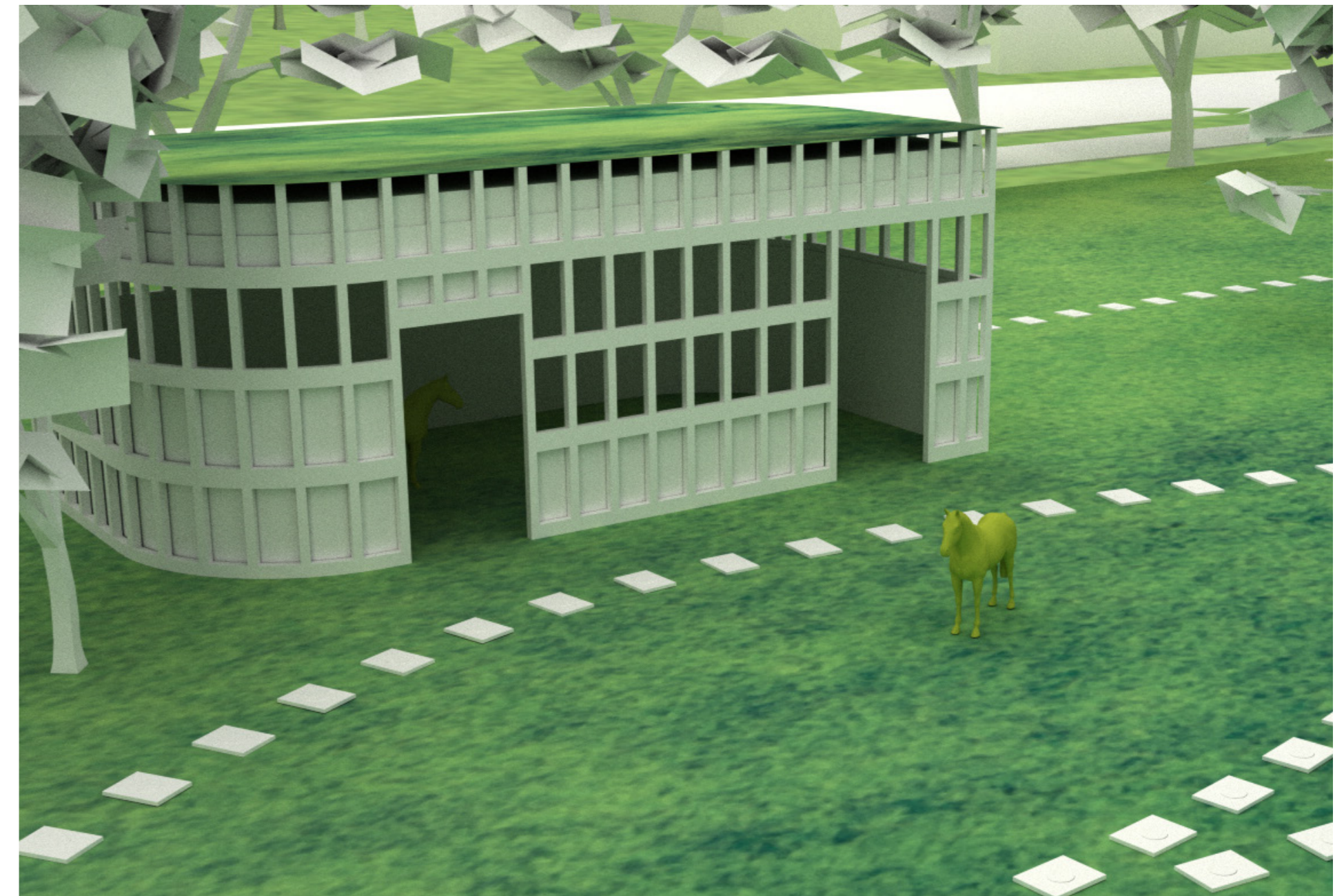
going to **all ways**  
is also for **individuals**  
but mainly it is **free**



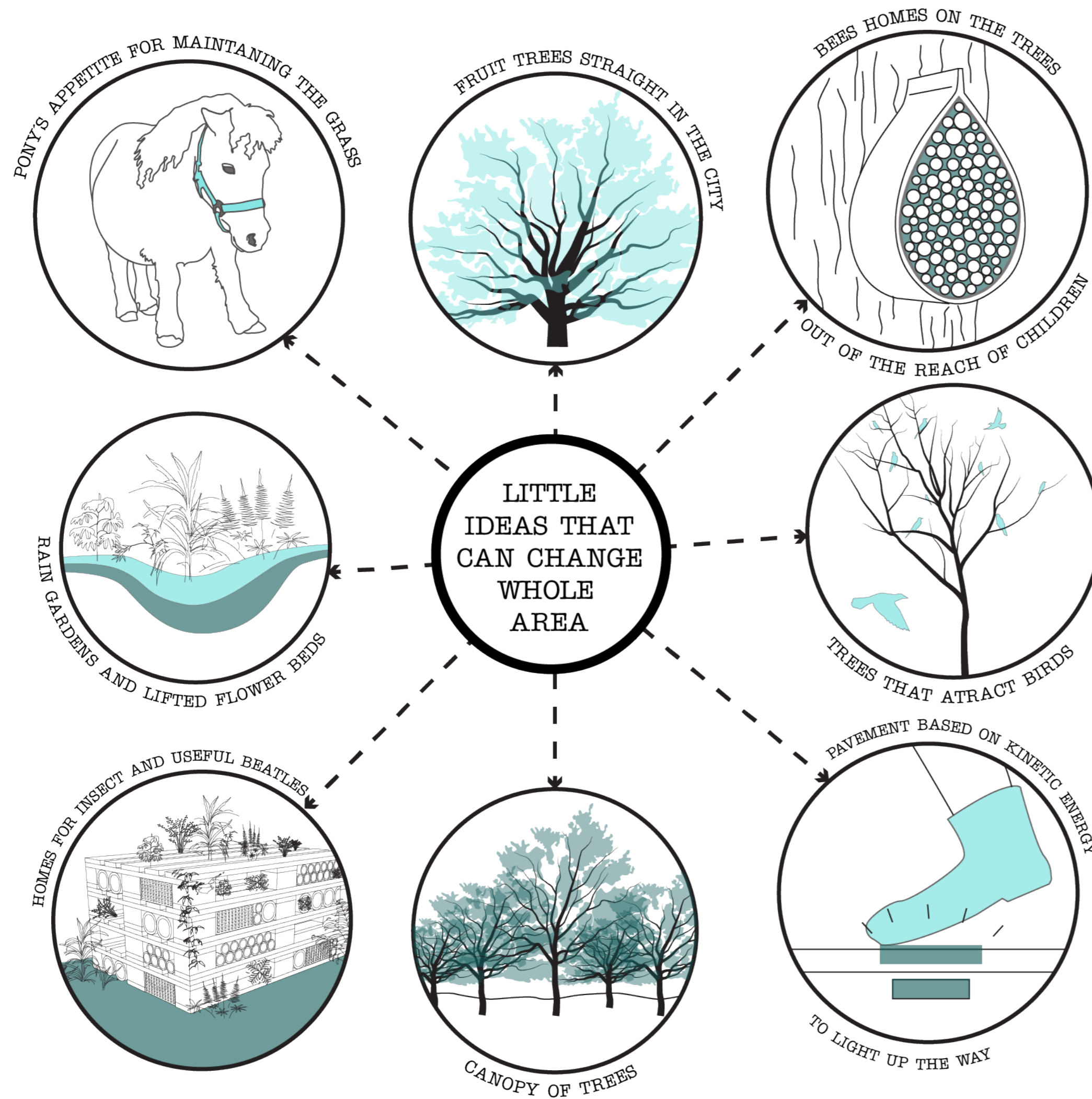
## NATURE SHELTER

home

it means **safe**  
and **help**  
and also **be welcome**



# BEING NATURE FRIENDLY IS THE NEW AGE OF HUMANITY



*Ponies eating grass can maintain the area in ecological way. Grass wouldn't dry out, but will be constantly the same height.*

*Some of the new trees will be local fruit trees, so passengers can refresh themselves with free food and bees like those trees.*

*Bees homes will be constructed not on the ground level but beneath the tree branches, so people will be in safe distance while observing.*

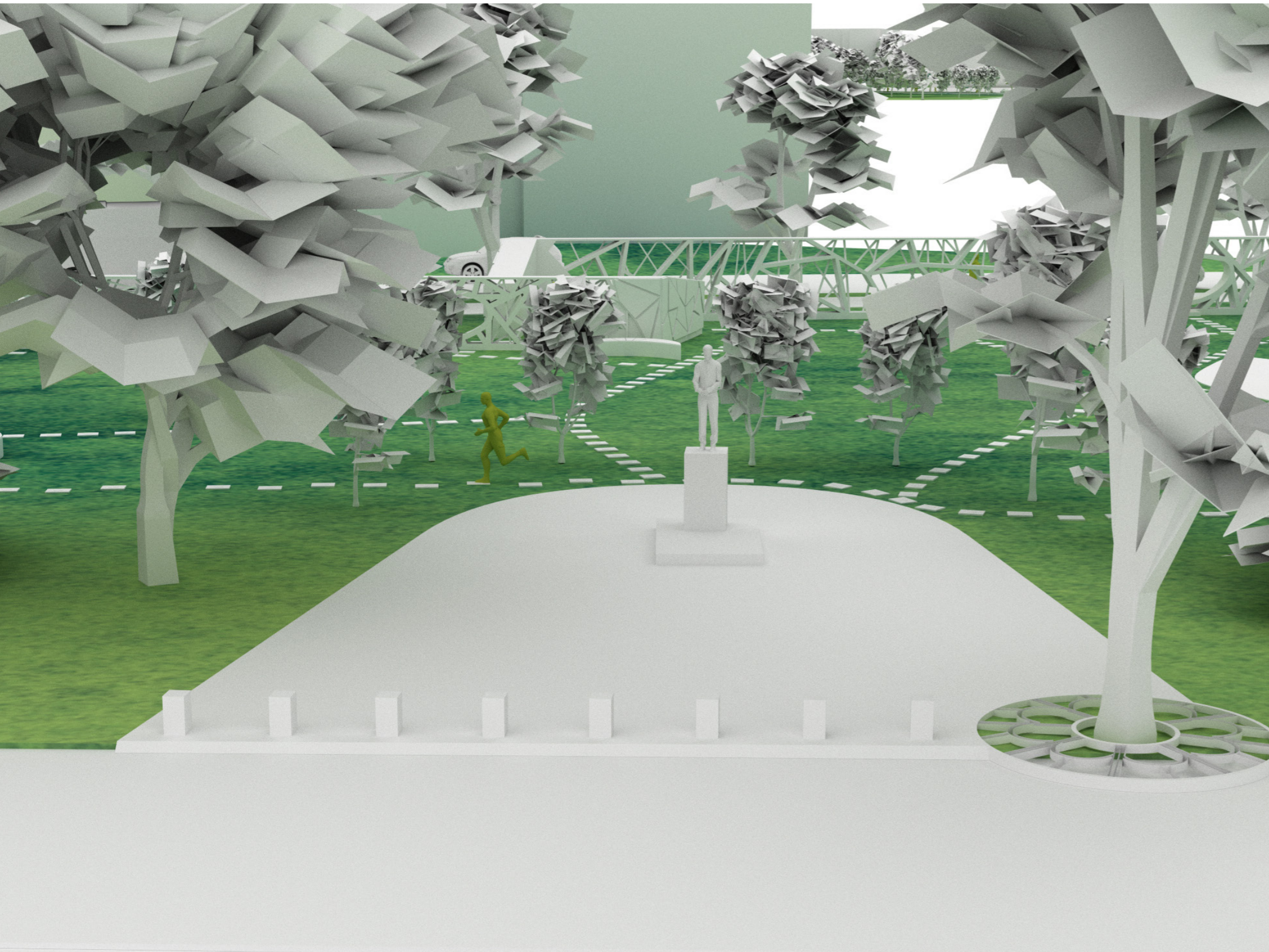
*Rain gardens are going to be planted around the whole area, so they can capture rain in rainy days and slowly evaporate it in hot days.*

*Bird trees can attract not only the the flying animals but also humans by the sound of bird's songs. Children and adults can relax beneath them.*

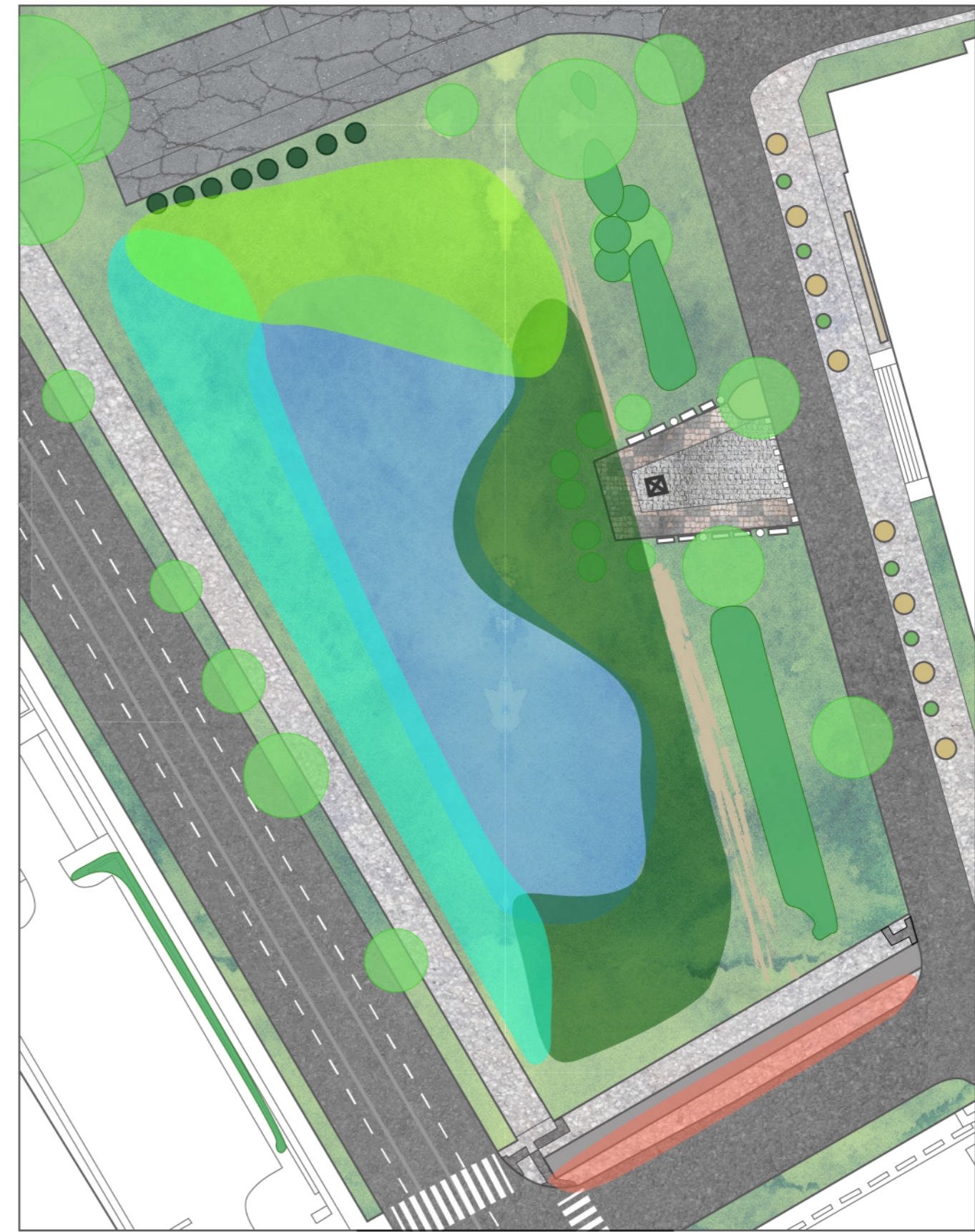
*Wooden palletes with some different shapes of bold bricks mkae alternative homes beatles and insect, so children can learn about them how they are useful.*

*New trees can bring wetter microclimate to the area, and that can be a huge chage for tthe area, that suffer from drought.*

*Pavegen's squares that are invented to transform kinetic power from movement into energy, can help with lighting the area and also with charging phones.*



**ACADEMIC SQUARE IS WHERE IDEAS  
COMES TO YOU**



**DESIGN AREAS**

**MAP LEGEND**

- discussion space
- plant space
- between space
- common space
- modified space

1:500



# GREEN AREA DESIGN

## COMES FROM:

academic square

districts

Square is heart of the town, and is mainly for talk and for leisure time group meetings. Streets around means veins of the town, in which flow walking people. Greenary in the city is important as a lunge system, that provide not only fresh climate, but also shadow and bring nature closer to the city.

Trough the design on the green area, we refer to the law faculty and many areas of their interests, so design work with czech law areas such as:

- constitutional law
- financial law
- civil & procedural civil law
- bussiness law
- international law
- constitutional law
- criminal law
- administrative law
- social security law
- European union law

## unique space & meeting point

In public spaces there is important to meet in space, that is significant and everyone knows it. To create such a space, one need a significant object inside, that means original, unforgivable, not invisible or out of sight.

It brings new kinds of spaces, but affected by something that is already in the area, it is supposed to be mainly for the students from university of law, so they will have a space to stay, to speak with each other under the sky or study

### DESIGN AREAS

#### MAP LEGEND

- discussion space
- plant space
- between space
- common space
- modified space

new pavement material

diferent shapes for different districts of czech law system

small plants or wild meadow line

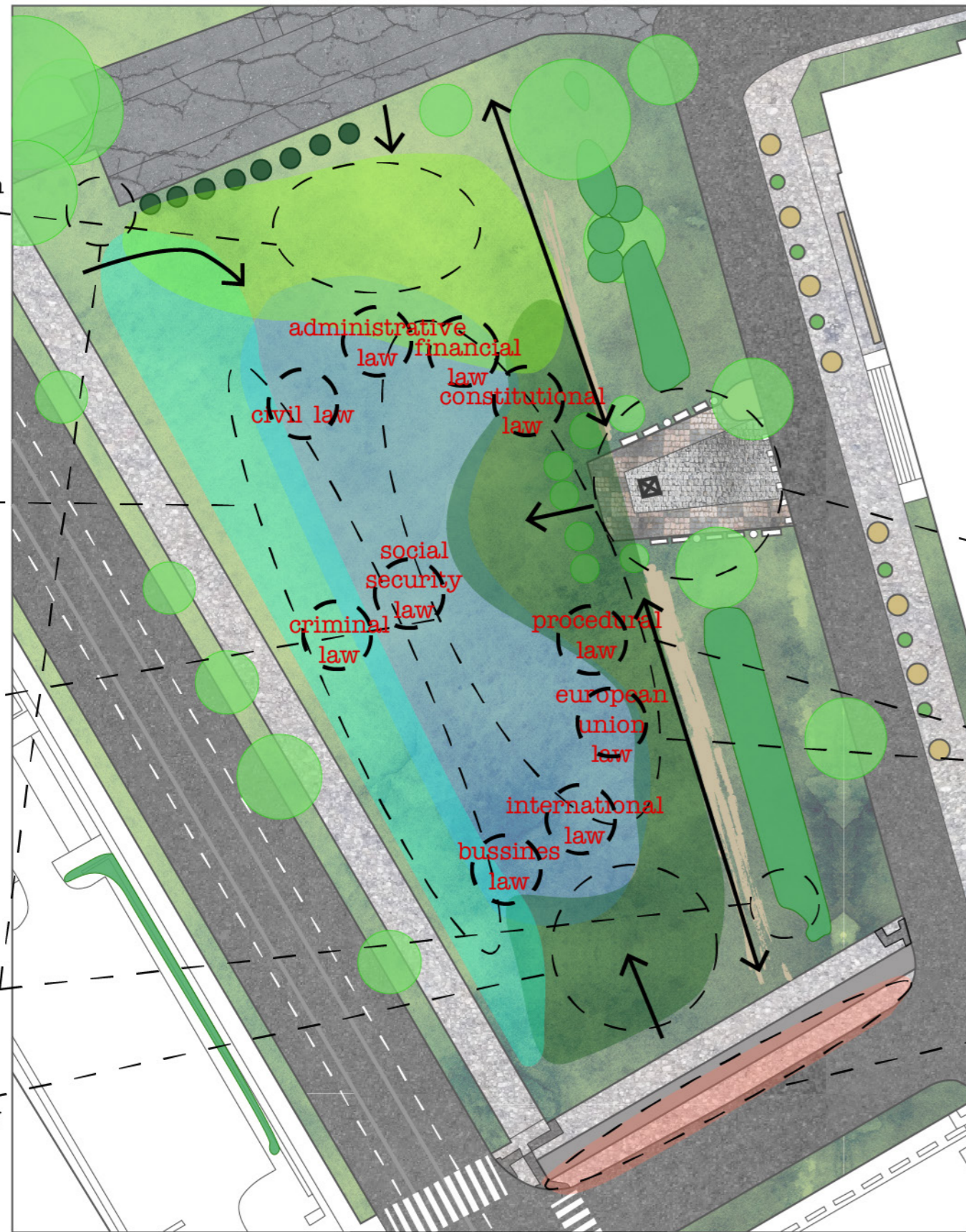
stage / platform for all

designed wall

space for discussion grass field few trees

dog bins

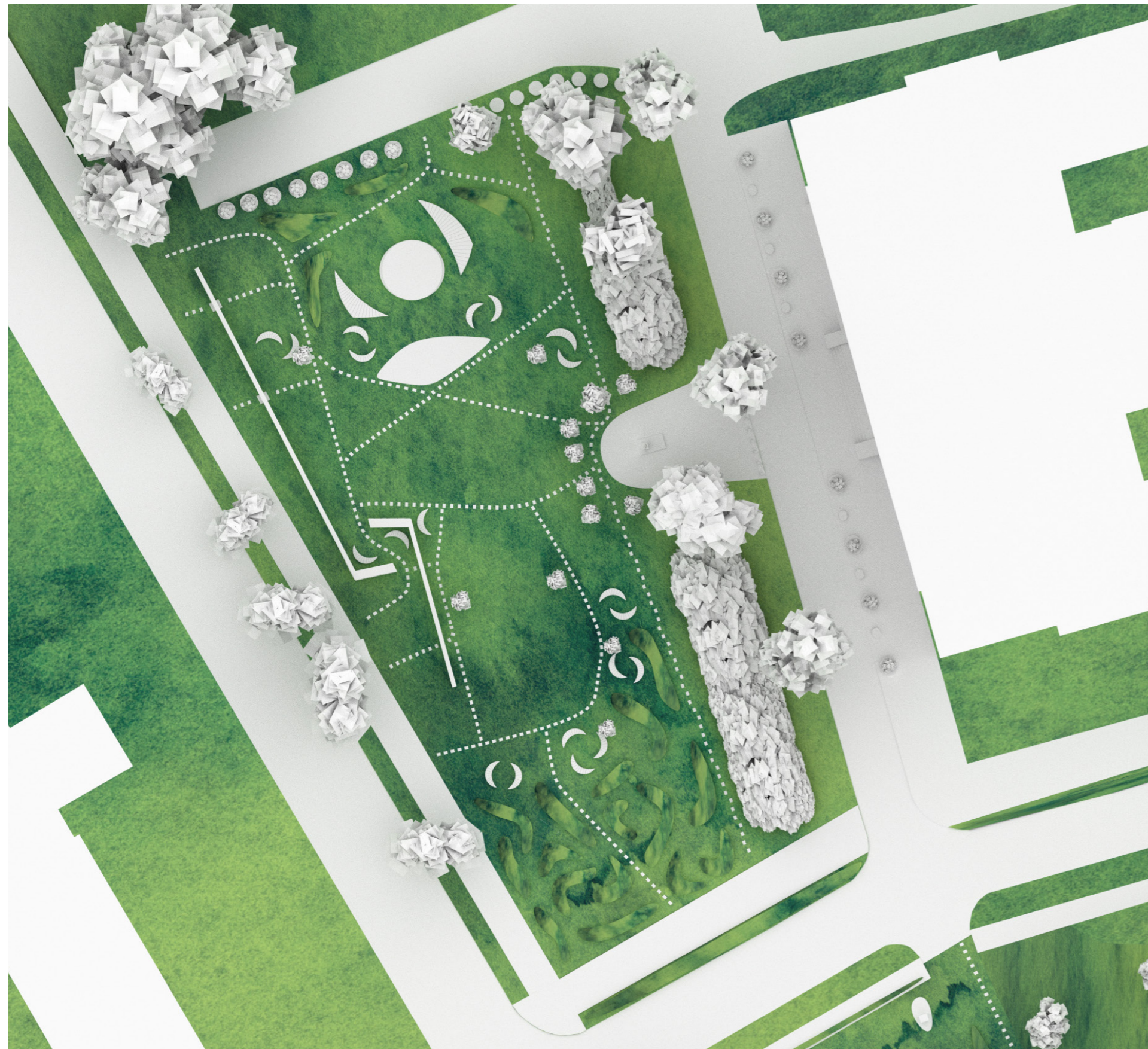
garden of meadow plants



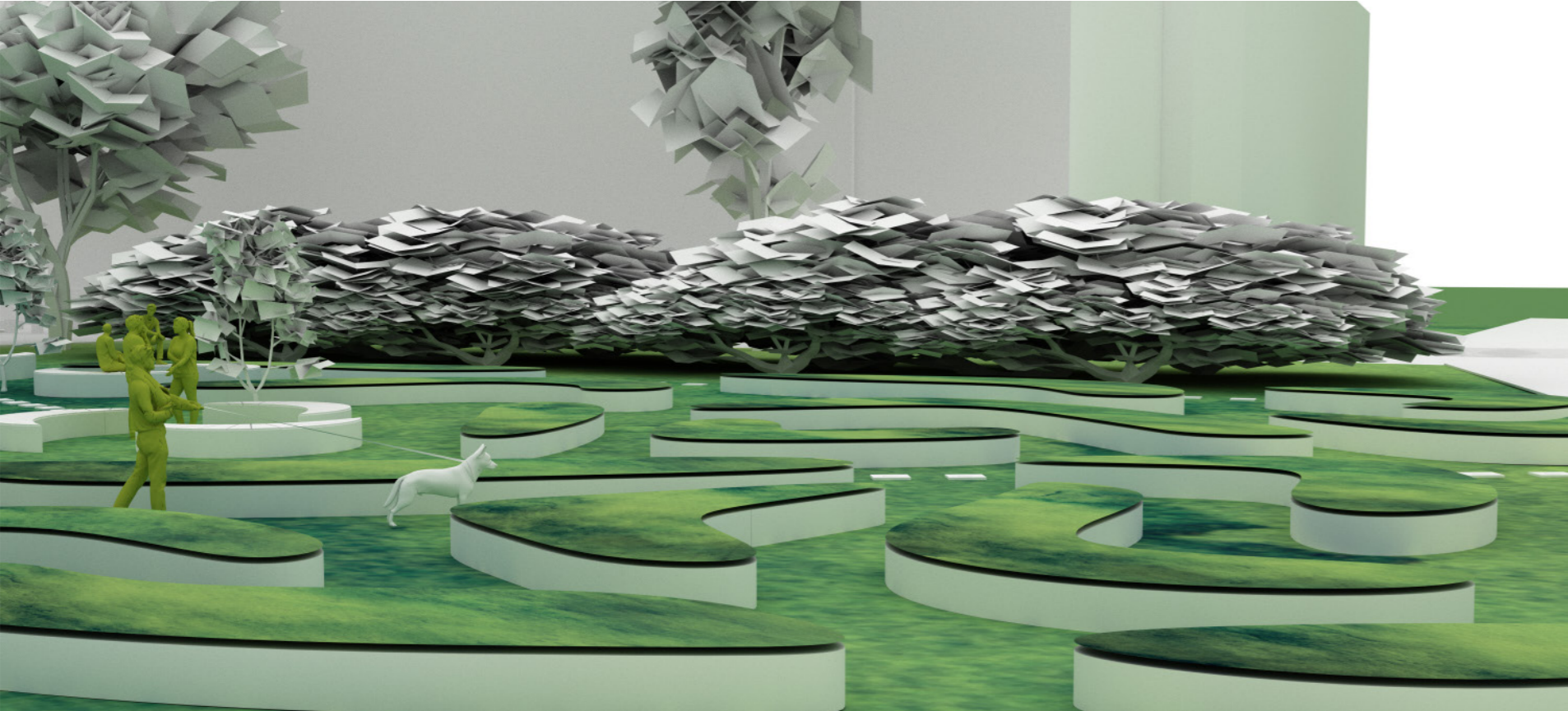
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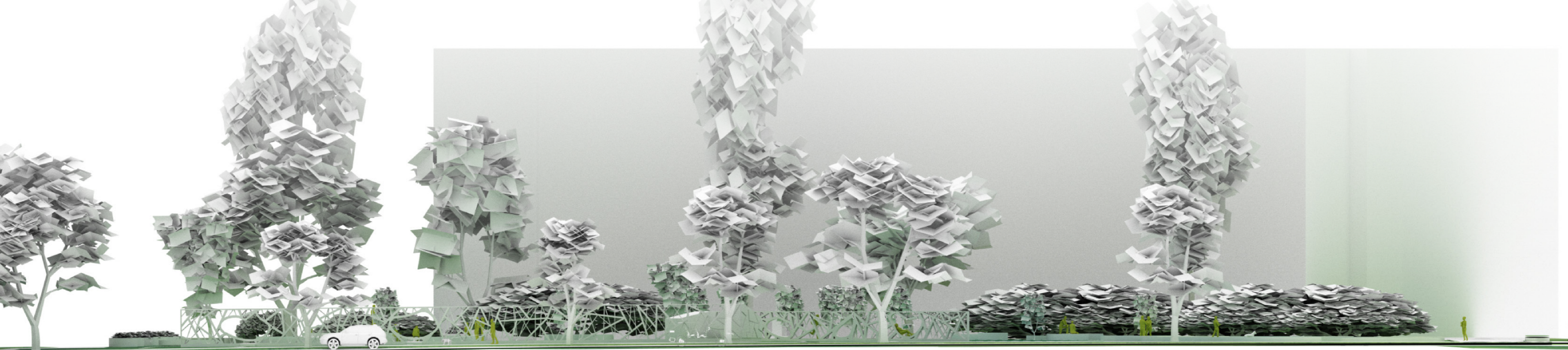
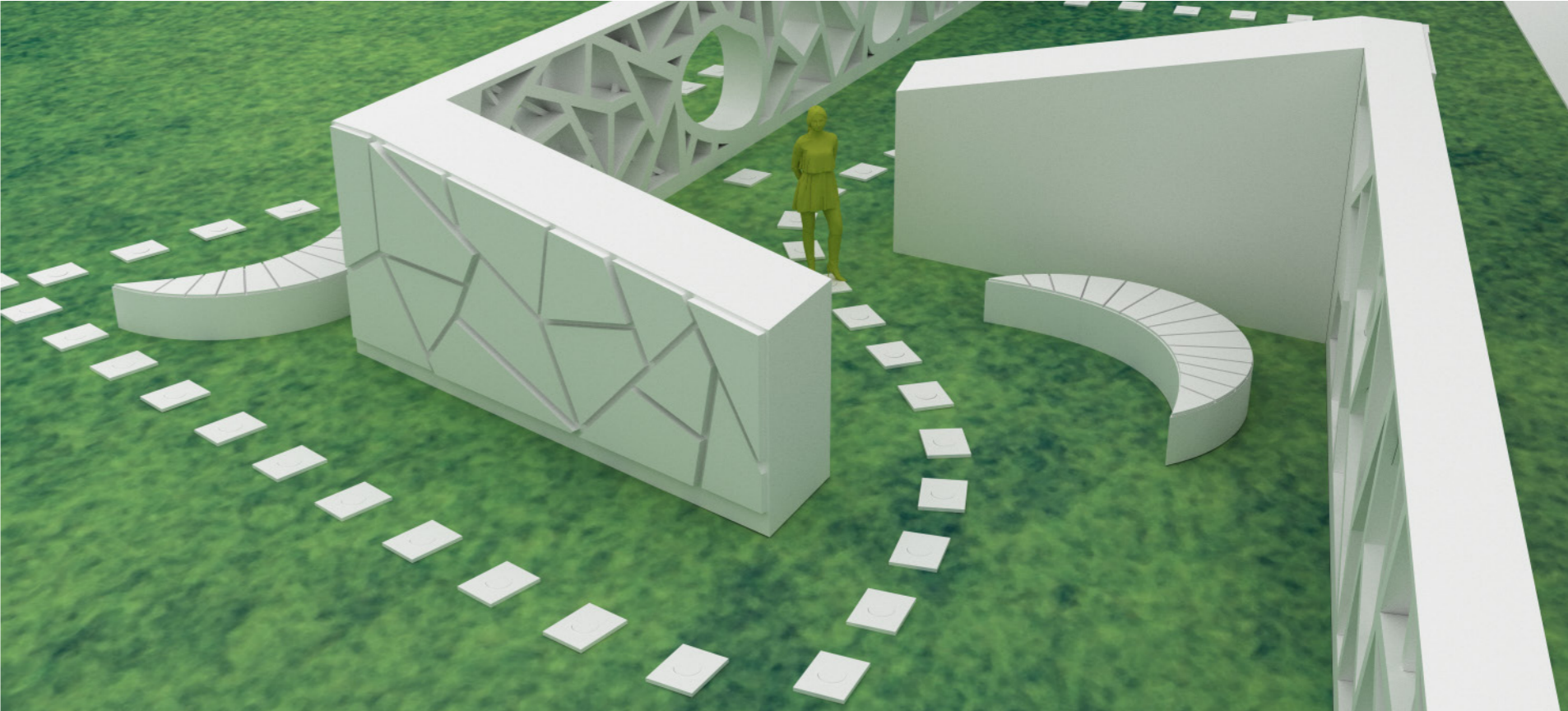
# PLAN OF GREEN AREA - 1:500



CROSS SECTION AND SOME VIEWS



GREEN AREA - ACADEMIC SQUARE





Ways - ways are at the same time also the light. New generation of kinetic tiles from the Pavegen factory are powered by people walk and shine themselves for a precise period of time. They are mainly leading straight, only the two path that are already invented by users are a bit dodging away.

Grass - main area is left to be as it is now, grassy with all that belongs to it, only change is that ponies will be the new way of maintaining it, so users won't be afraid of using it.

Elevated flower beds - organic shapes are composed like the maze, because reading the czech laws sometimes might be like standing deeply inside the huge maze.

Platform - is the decentralised centre of the area. It can hold various discous beneath the sky, students concerts, amateur theater performance or even talk with the headmaster. Small events can be held here and it also can be used as bench or space for relax.

Benches - studying, reading and talking, all of it can be held outside in the nice days and they do not need to walk so much. What is more benches are devoted to various czech law areas so student of law faculty can learn the bussines law at the bench from bussines law district etc.

Relax - student, passanger, dog walker and children can relax everywhere they want, on benches, on the grass, even in the wall! The wall is in its perforated way of construction connecting more than making a barrier.



## DISTRICTS OF LAW

Civil law - benches heads towards the holes in the wall, to be part not only of the space inside the green area, but also civil life outside of it.

Administrative law and financial law - benches are nearby the platform of reused concrete, because administration always need to lead the and finances are where something is happening. (just irony, yes?)

Constitutional law - benches are a bit imbalanced, one is slightly bigger than another, it only depict the feeling from the judge's post and the post of the sentenced person.

Criminal law - benches are placed between two walls that in ground plane looks like paragraph symbol. Space inside can for someone feel like behind the bars, for someone else it might might be the perfect hideout.

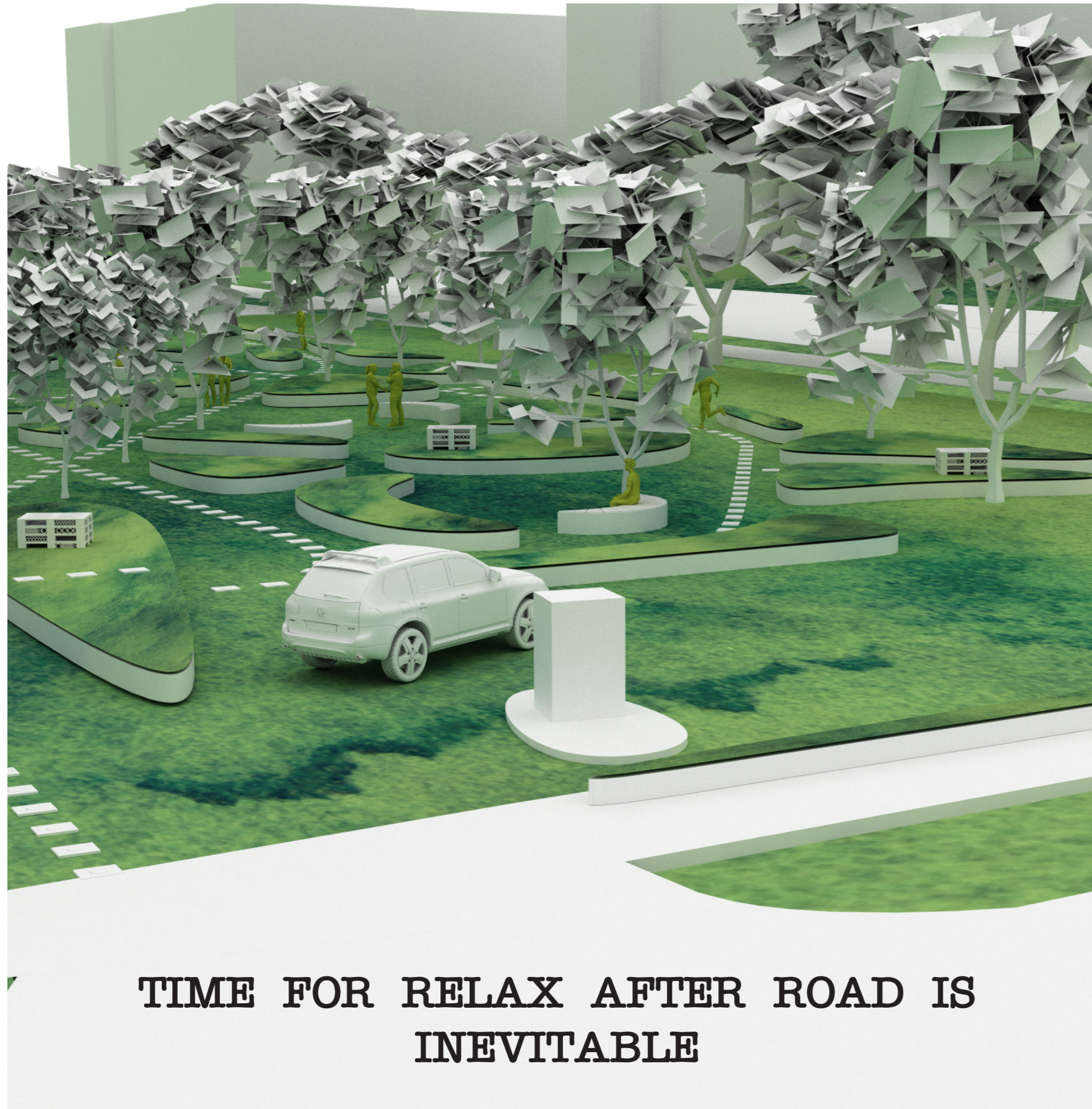
Social security law - bench is heading to the area, to control all of it at once.

Procedural law and Europe Union law - benches are standing close to one another, people can speak directly with each other and the direction where they are heading is also meaningful.

International law - three benches symbolise the right and equality of different countries, each having it's own look on situation.

Bussiness law - the two benches are to one another totally equal and heads oposite views.



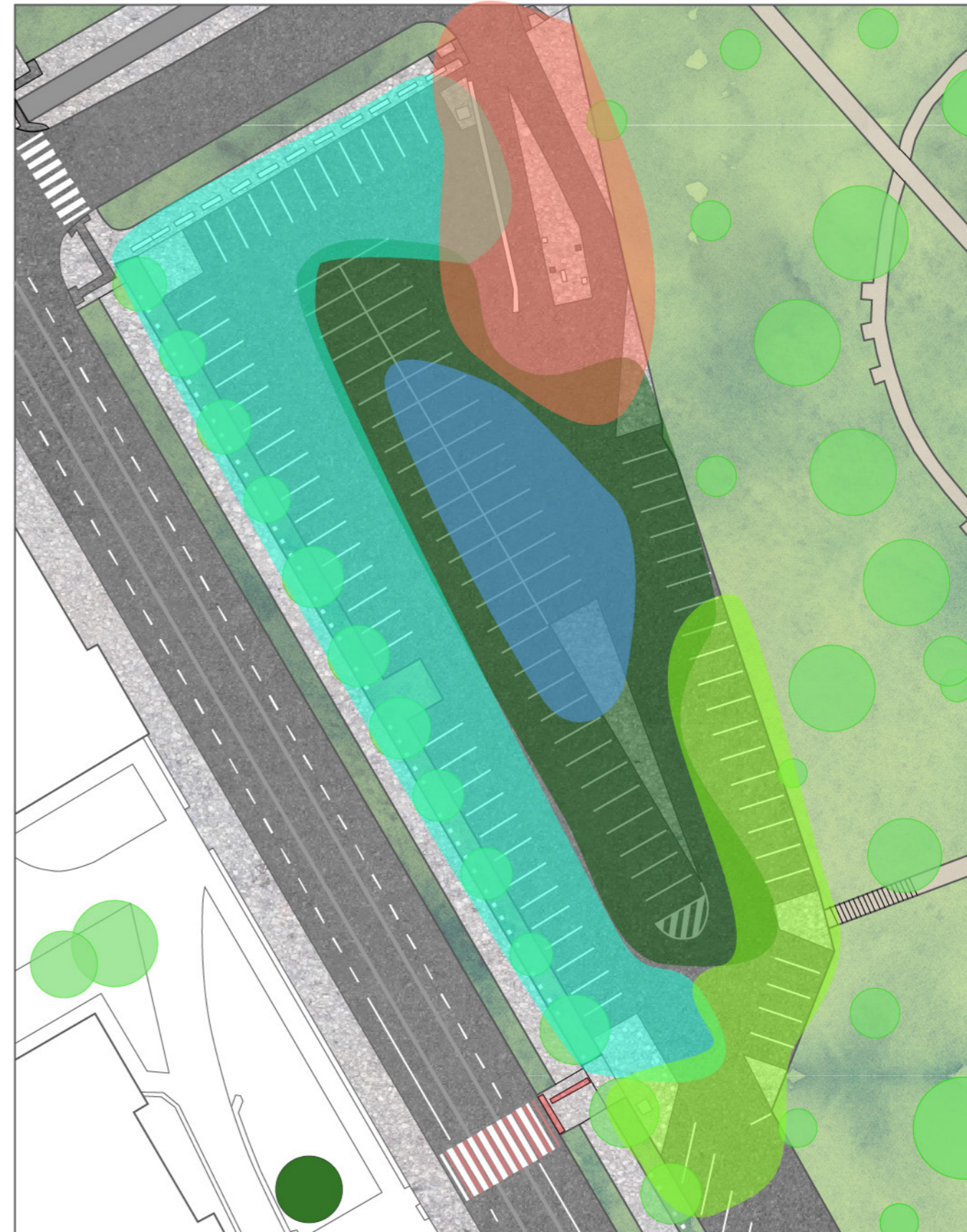


**TIME FOR RELAX AFTER ROAD IS  
INEVITABLE**

**DESIGN AREAS**

**MAP LEGEND**

- discussion space
- plant space
- between space
- common space
- modified space



1:500



DESIGN AREAS

MAP LEGEND

- discussion space
- plant space
- between space
- common space
- modified space

parking slots  
which stay

grass panels



1:500



# PARKING AREA DESIGN

## COMES FROM:

### urban mobility

Town need its roads for being fast in all transports. It means to quickly gathered people for their job or bring them home, distribute food and energies. Worldwide, most of old towns are not really prepared for the increase of cars in the centers.

### tree canopies

As a mean of bringing shadow in the area, because it is ubnormally hot in summer days, we use trees as canopies and combine it with grass areas.

### lesser our hectic life

Most of car parking space will be reserved for natural kind of living, so we bring animals to the area as much as possible.

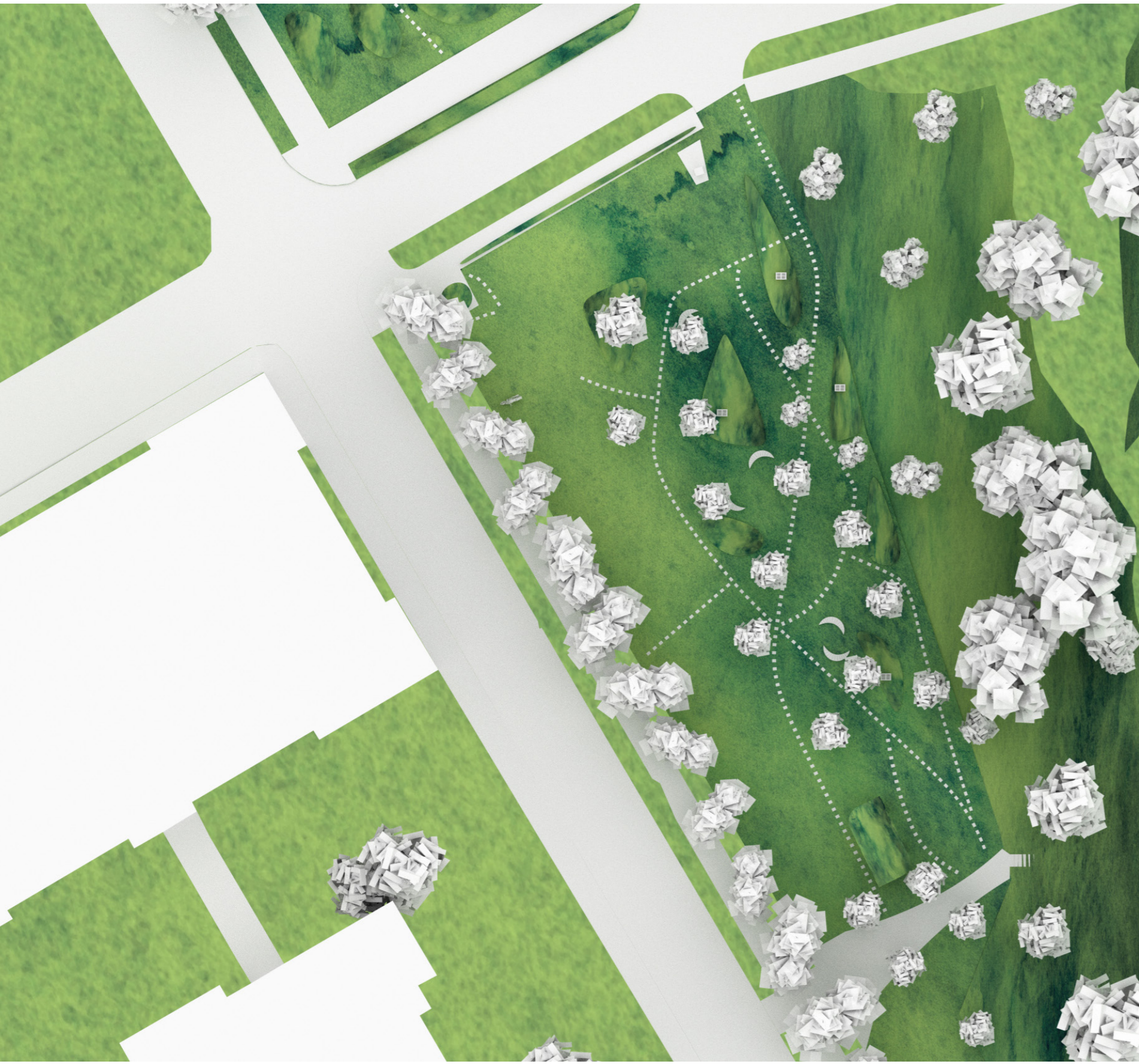
### districts

We will try to eliminate the need of parking lots to the minimum and reserve this space for new kinds of amusement:

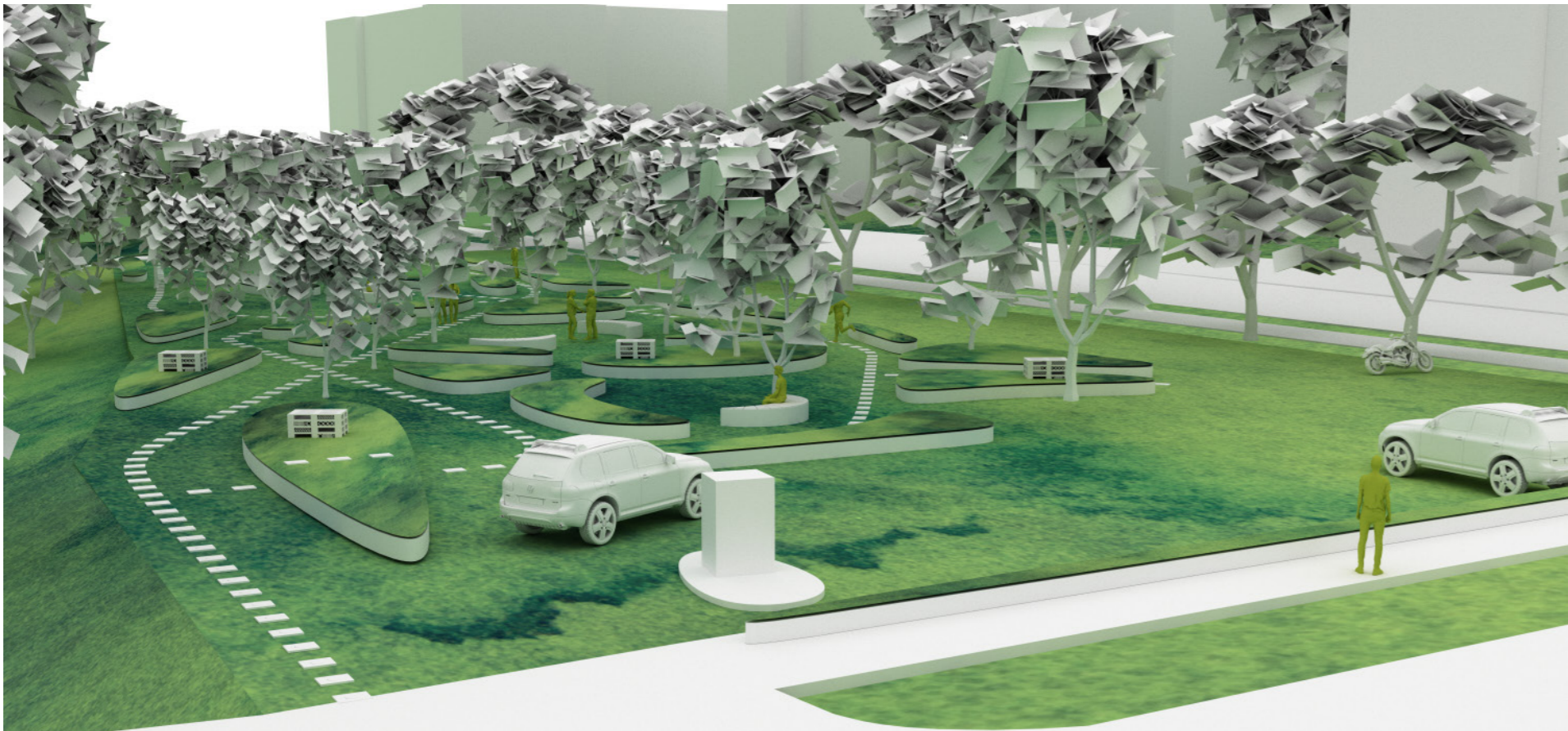
- relax district
- nature meadows
- district of raingardens
- mammals district
- bird district
- insect district
- playing district

We bring nature to the area and we also calculate with possibility to educate children and adults in being friendlier to the nature and we bring it in the town, where it is almost hidden or unmaintained. The main function of the changed area is to spent leisure time outside, to relax beside the city nature and bring possitive emotions into every day rush.

PLAN OF PARKING AREA - 1:500



# CROSS SECTION AND SOME VIEWS



# PARKING AREA





Ways - they lead the person deeper to the nature, but still connect him/her with the city, so everyone can smell the nature and freedom, but also feel safe with no danger. They are same as the ones in the green area.

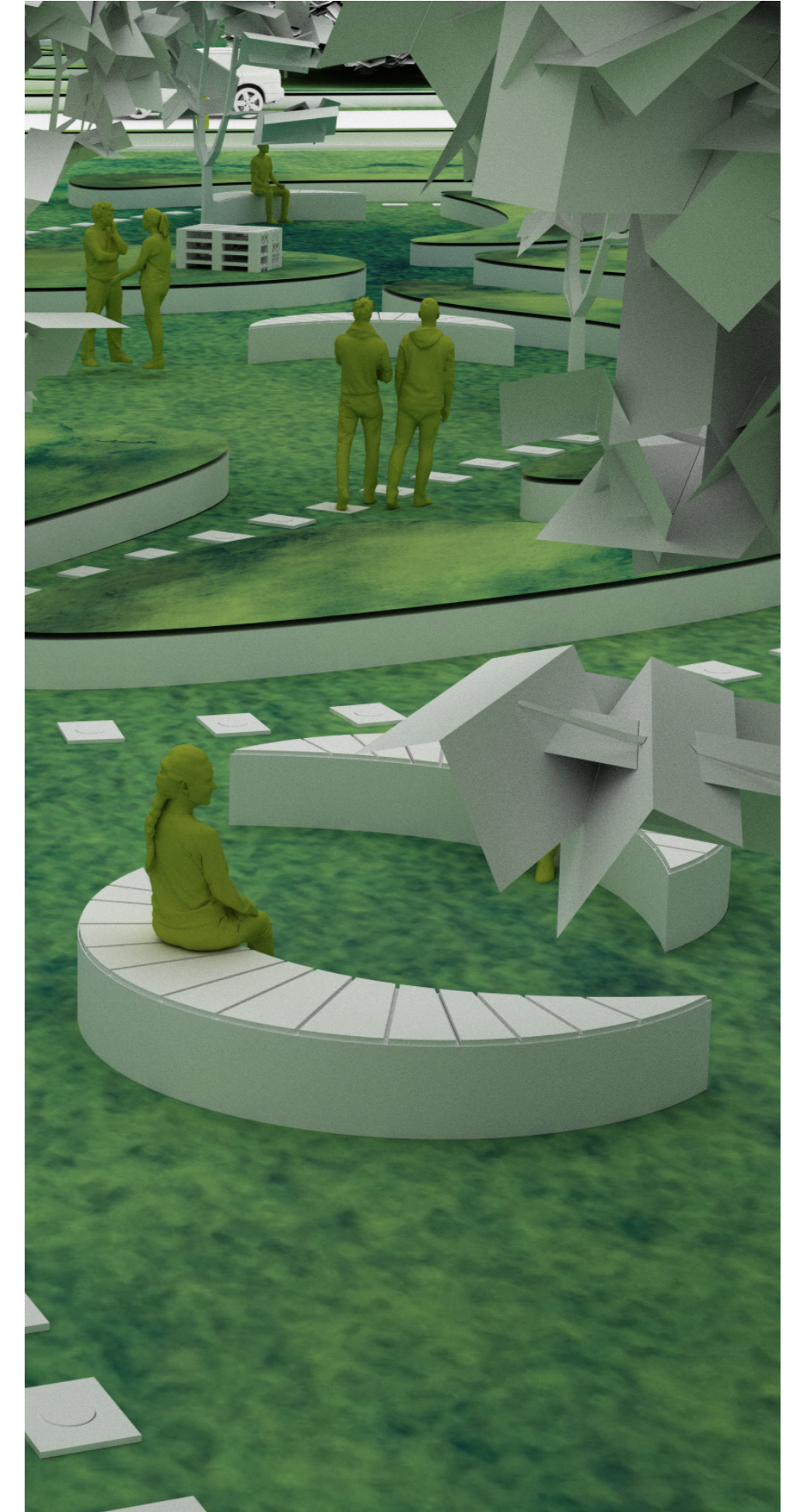
Trees - space is in need of shadow and the best shadow can bring trees, especially the ones with the big crown. From the beginning small trees will need help and security from people, but after some years they will pay back the people's care.

Elevated flower beds - wild meadow-like organic shaped bring the humid life straight into the city, the space above the concrete "pots" won't be cutted more than 1 or 2 times per year, so the life inside can flourish and town children can learn about it.

Shelter - all ways though the forest need shelter (for humans, for animals, for all who need it) and one will be safe spot for ponies which will live here trough the whole year, so people can visit them even in the winter.

Insect and bees - living inside the wild meadow flowers represent the life of the ecosystem. Prepared homes can hold them on one place, where it is not endangered by humans or cars. And children can learn about the smallest animals while go on walk.

Relax - main function of the changed area is relaxing. It is kind of extended area beneath the Bjornson's orchard. Gives spectacular views and connect people that relax with every day rush on the road, because that's what about the city is.





## PARKING PART

Parking area will be decreased from 110 to about 45 spots for cars. The whole concrete area will be crushed in the first phase of recovery and changed by the grid of grass panels.

The crushed concrete will be used for concrete platform at the end of the green area, and little stones will be used as the platform for audience.

Other can be used as the benches in the shape of half-moon and the base for wall.

Precisely chosen spots will be excavated and filled by the special clay for trees and the holes will be about the assumed dimensions of the trees in future.

Trees with great or wide crowns and three or four trees that attract bird in the districts for them.

## RELAXING PART

The area will be enriched by the elevated flower beds in organic shapes that will make home for different wild meadow flowers and insect.

Some of the species are going to be the endangered ones that once thrive in locality many years ago, such as:

- *Bupleurum rotundifolium*
- *Sideritis montana*
- *Conringia orientalis*
- *Chenopodium murale*

The most ecological way of maintaining the grass is to let it be eaten by the fluffy natural predators such as ponies with great appetite.

Those animals can be very flegmatic, so there is no danger of conflicts with people. Children can also learn about them and observe them.

