

25TH INTERNATIONAL VERTICAL STUDIO BIG

FAD STU

*first time up*  
*gateway*



**BIG** **FLW**

WS 2023 / 2024

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1

Half the program is a real physical project, dealing with the challenges of connection between the site and adjacent recreational area and suggestion of solutions for enabling **creation of world class recreational gateway.**

*brief*



2

The other half would contemplate a scenario within the realm of alternative reality. Students are to imagine that **cars have never been invented as a transport.** The popularization of the area has to be carefully planned in order not to overload its facilities and disrupt its environment.

# challenges



location



... landlocked country Slovakia, Central Europe



... Bratislava region



3 500 m

5 500 m

ESET  
campus

main railway station

bus station

city centre

SLOVAKIA

AUSTRIA

DANUBE

1 : 20 000



Partisan meadow

ESET campus

Ferdinand's spa with natural iron water



*history*



spa rebuilt into a hotel for social events

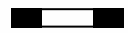








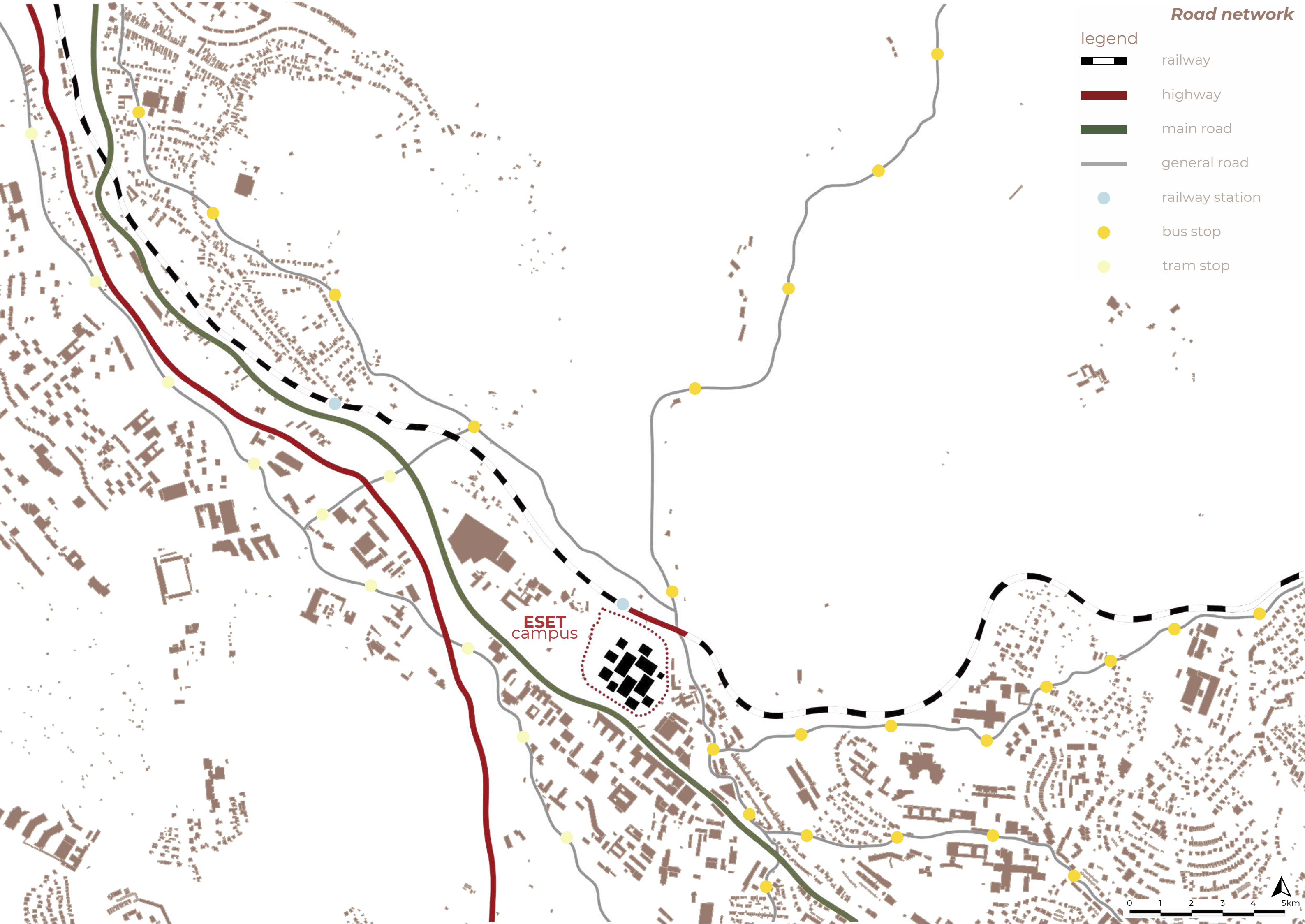
site analysis



*Road network*




legend

-  railway
-  highway
-  main road
-  general road
-  railway station
-  bus stop
-  tram stop



**Cycle routes**

legend

-  national cycle track
-  local cycle network
-  off-road dirt track



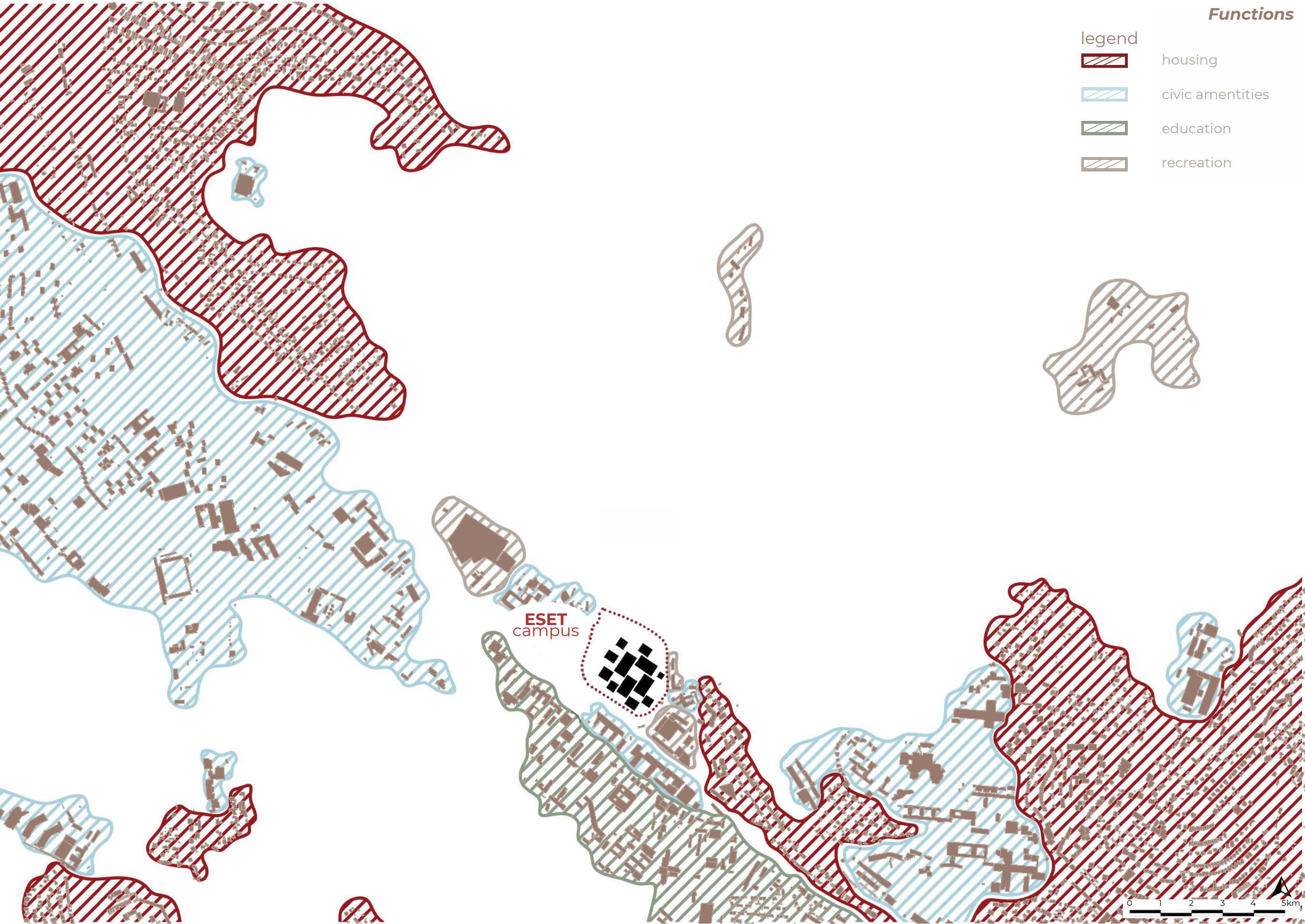
**ESET**  
campus



**Functions**

legend

-  housing
-  civic amenities
-  education
-  recreation



**ESET**  
campus



**Greenery**

legend



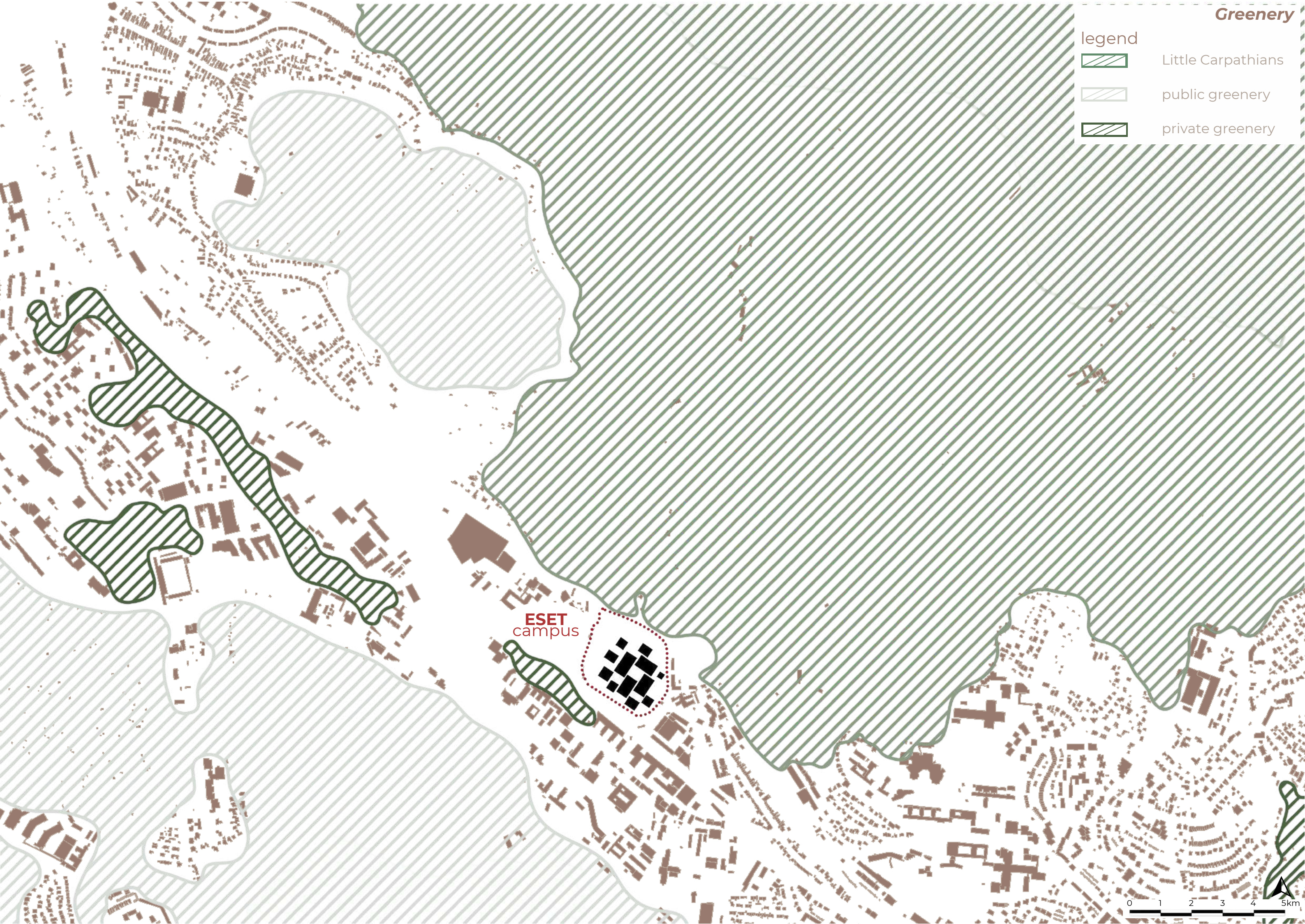
Little Carpathians



public greenery



private greenery



**ESET**  
campus



legend

- river
- stream
- lake

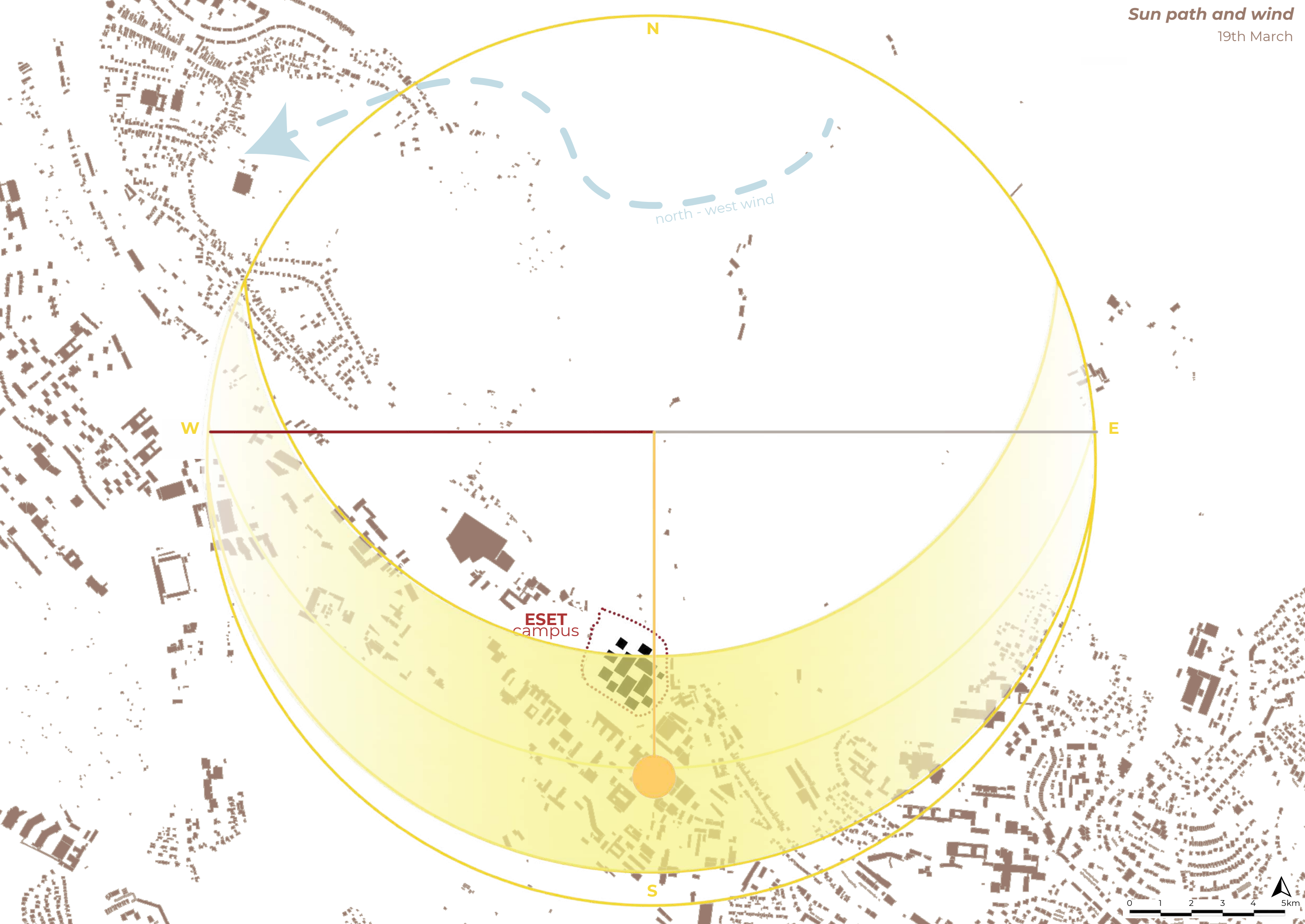


Vydrice

Klzáň

ESET  
campus





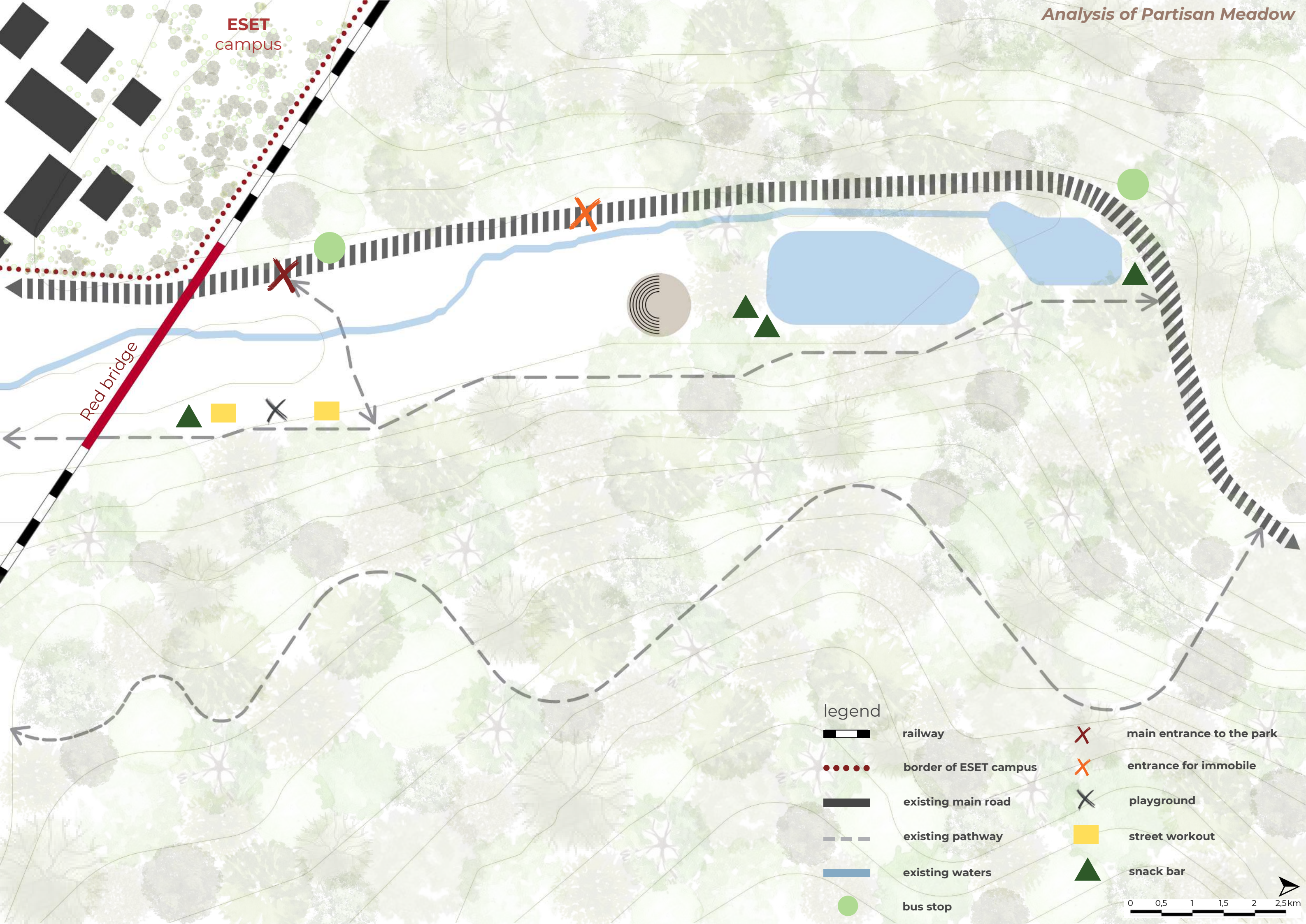
*site visit*






ESET campus

Red bridge



legend

-  railway
-  border of ESET campus
-  existing main road
-  existing pathway
-  existing waters
-  bus stop
-  main entrance to the park
-  entrance for immobile
-  playground
-  street workout
-  snack bar



no access for immobile people



inappropriate beginning of the area



collision of transportation



missing shading structure and benches

## STRENGTHS

existence of the huge park next to the site  
entrance gate to Little Carpathians  
location in innovative district  
usable water lakes and flow  
popular recreation area  
history of the place

## WEAKNESSES

cycle routes not safe and suitable for families  
city center situated far away from the site  
lack of well developed infrastructure  
non - functional facilities  
lack of parking places  
public transport

# Swot analysis

## OPPORTUNITIES

design according to the history of the place  
revitalization of the recreation area  
improvement of the facilities  
access for immobile people  
create new green areas  
design new cycle path  
create car free area

## THREATS

people relying on using cars  
high traffic density  
poor availability  
overpopulation  
pollution  
noise

*user cases*



## Alice



28 years old

accountant

persistent

plays wheelchair tennis

*What does she need?*

***easy accessible area for immobile  
people to spend time***

## Paul



42 years old

product manager

determined

works out 4 x a week

*What does he need?*

***workout place with a chance to  
shower and change***

## the Wilsons



34, 38 and 10 years old

architects and pupils

courageous

clear mind in nature

*What do they need?*

*area for a day out with opportunity  
to buy food and kids to play*

## Eve



36 years old

product designer

sociable

runs and hikes

*What does she need?*

*a place to leave a dog while she runs  
or is in the work*

## Rory, Ava and Laura



18, 23 and 25 years old

erasmus students

communicative

go out and have fun

*What do they need?*

*area where they meet, barbecue,  
relax or do sports*

## Monica with Ellis



40 and 8 years old

nurse and pupil

friendly

cycles

*What do they need?*

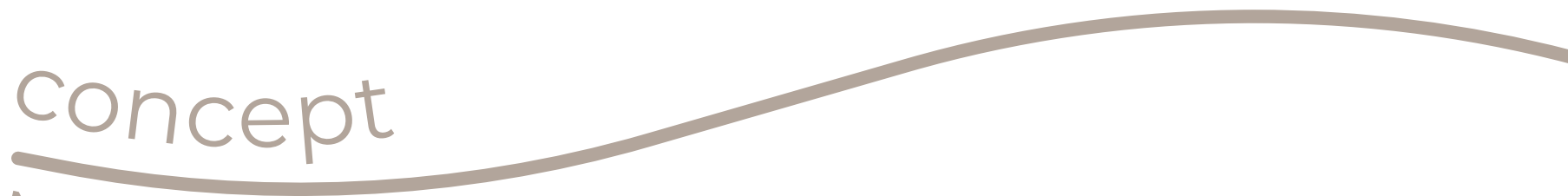
*a safe cycle path where she can  
teach Ellis to cycle*

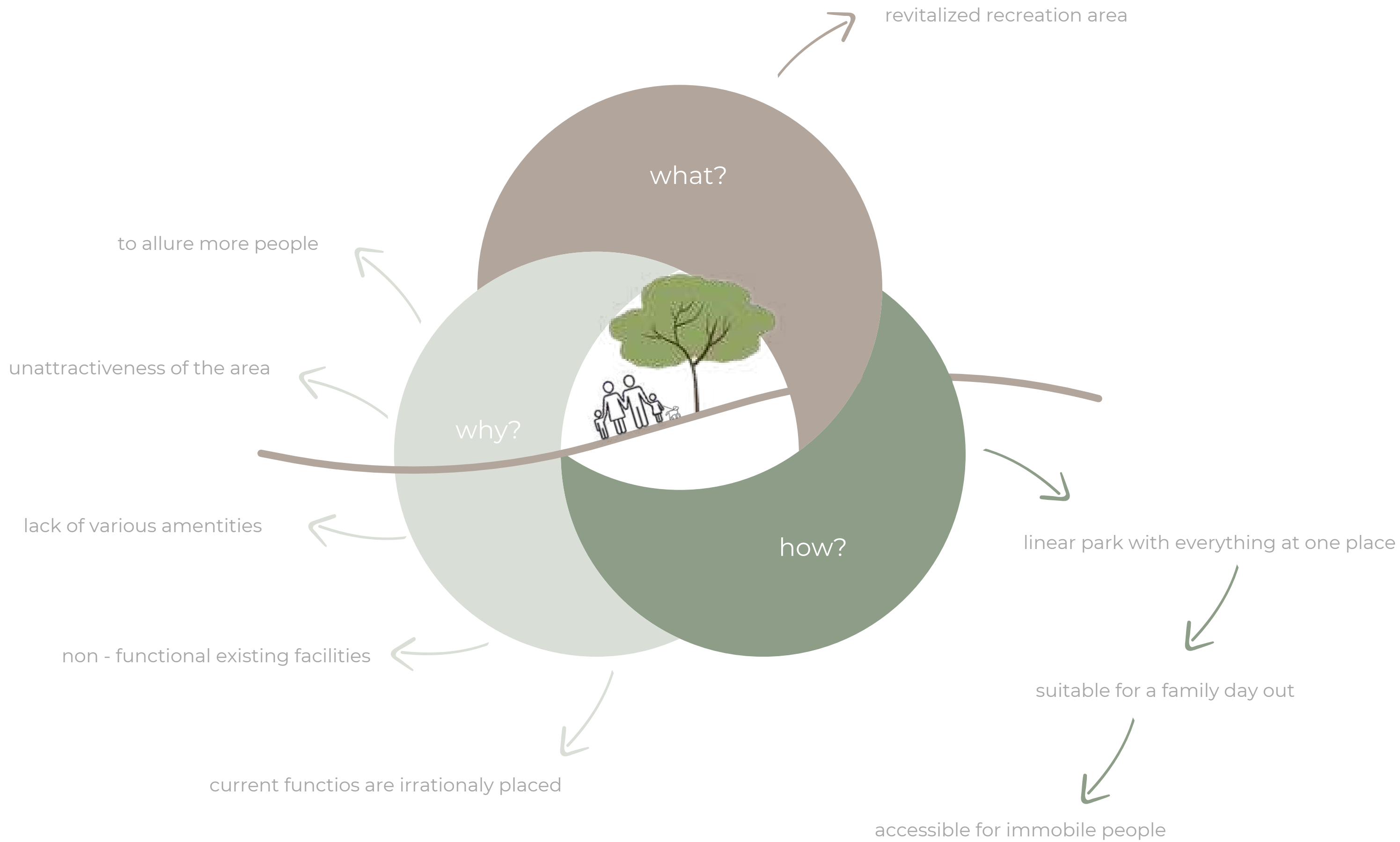
concept

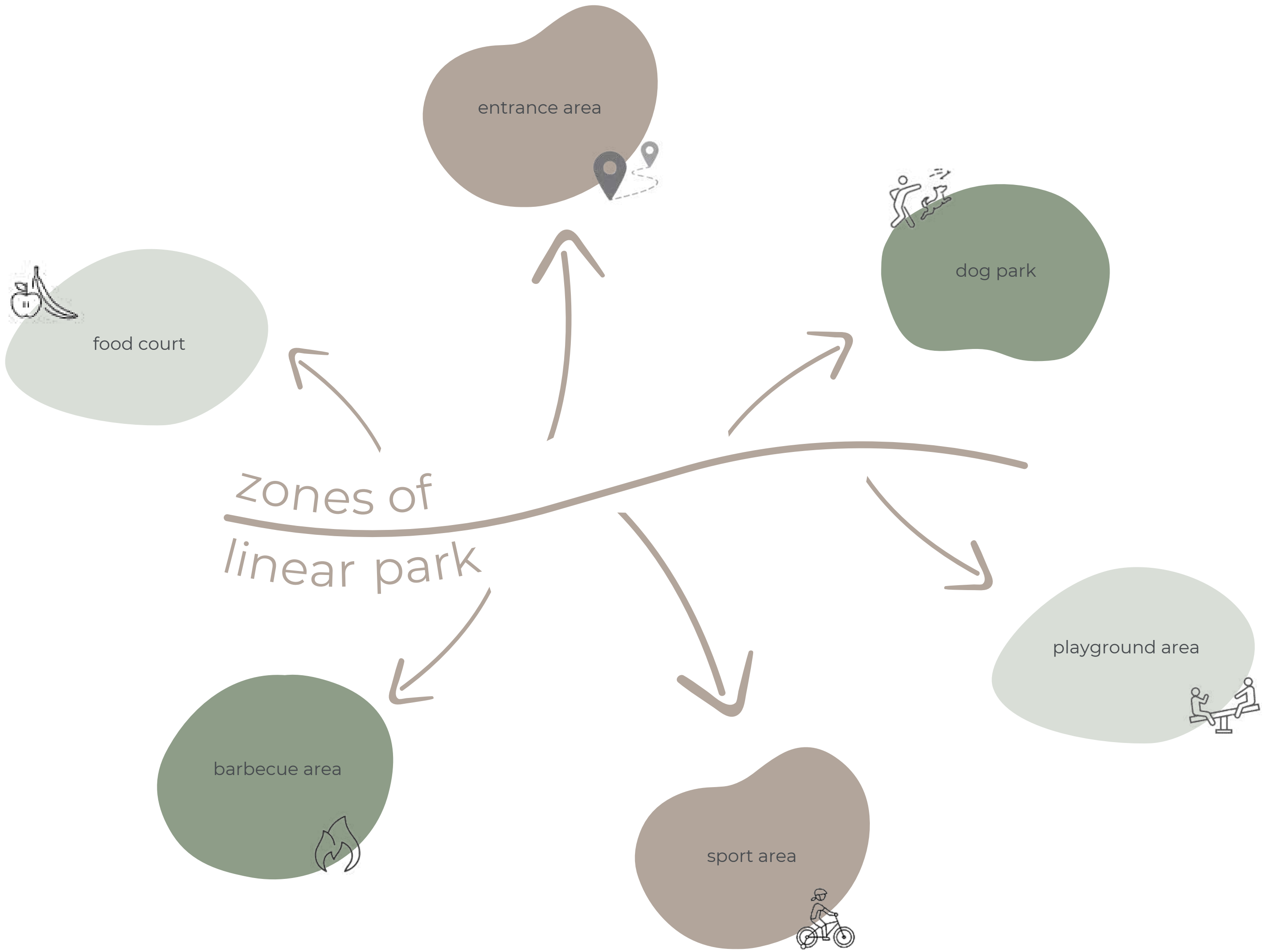




concept  
No. 1







mood boards





entrance area  
+  
food court





  
dog park  
+  
playground area  



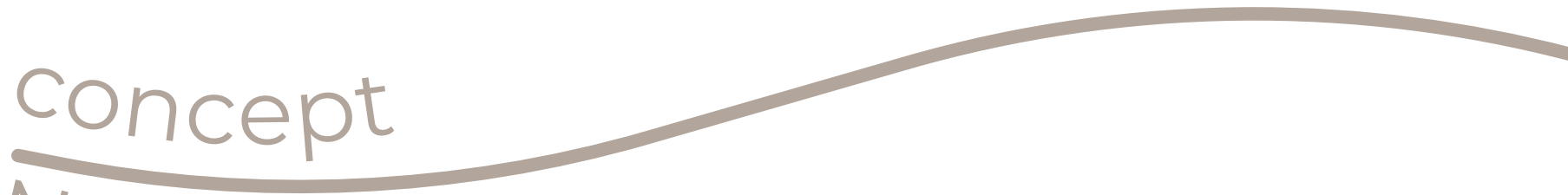



sport area  
+  
barbecue area

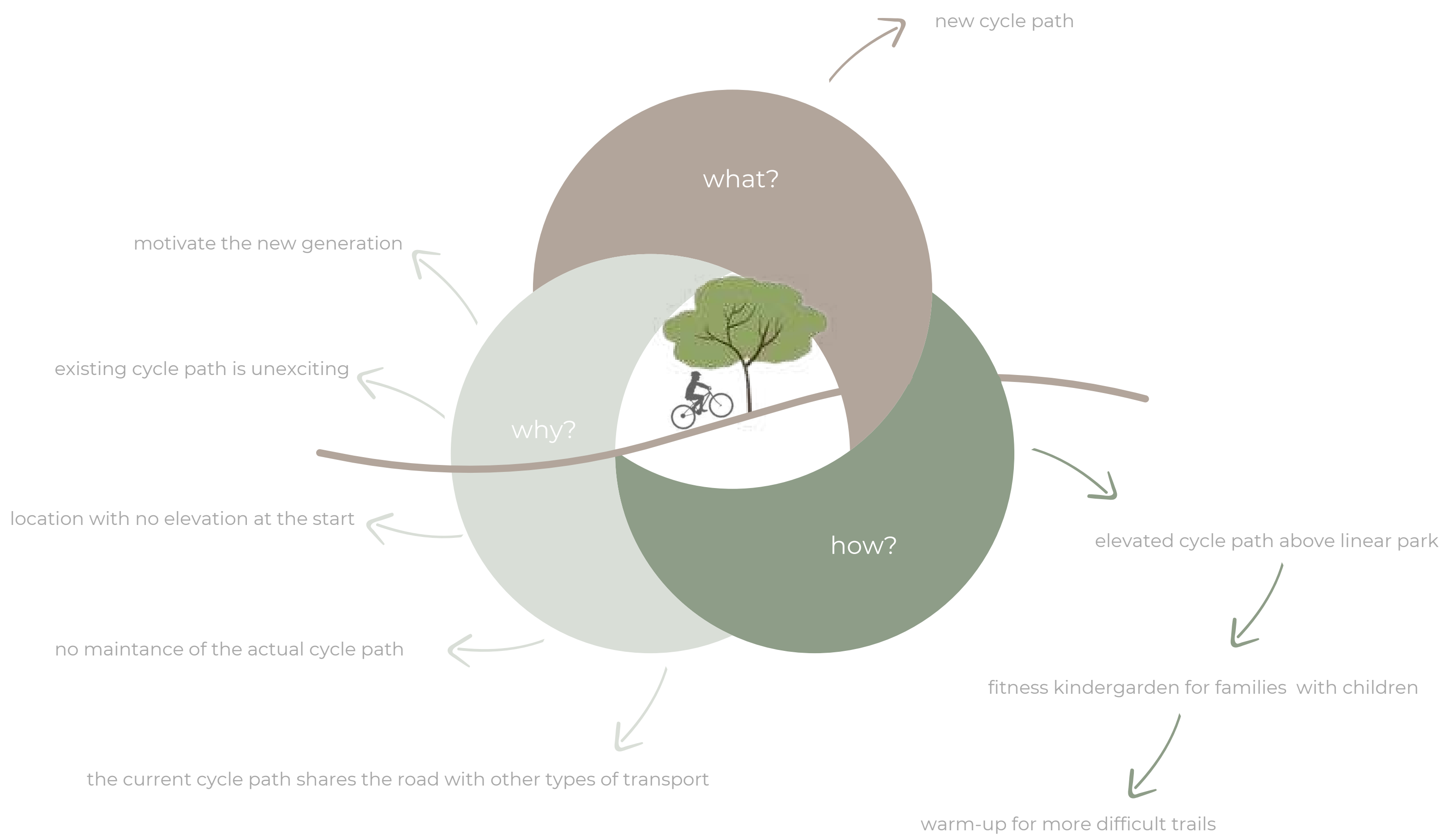


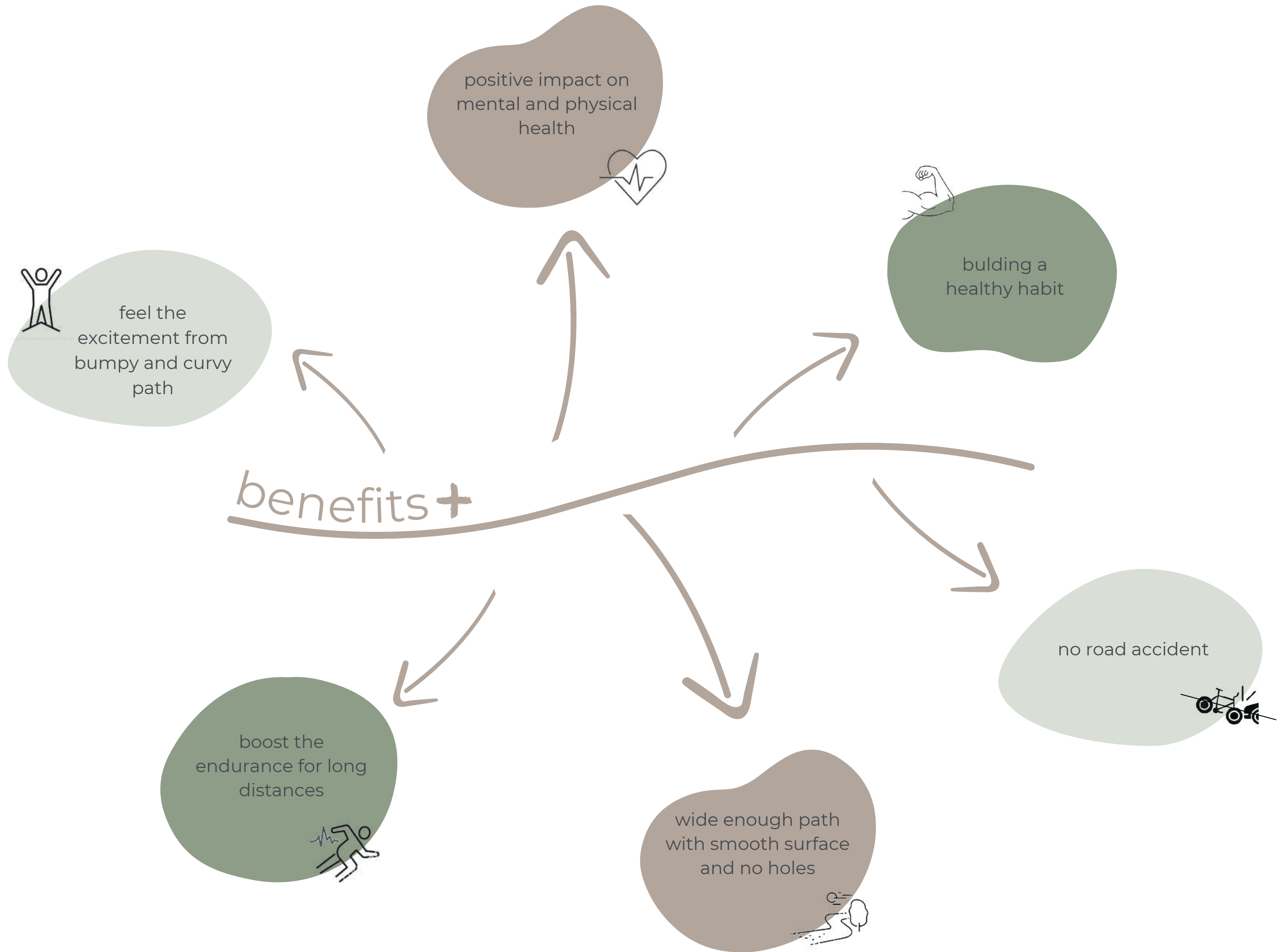
concept

No. 2









mood boards





elevated  
cycle path



*inspirations*



## Cycling through the Trees

*Burolandschap | BELGIUM, 2019*

implementation with nature as 'Cycle of Life'

columns symbolize the trunks of the pine trees

cycling is one-way with subtle wire net with a handrai



## The VENTO Cycle Route

*GAL Terre del Po | ITALY, 2022*

trees - key component of the design proces

„What if one day we could grow architecture like a tree?“

sensors track air pollution to the health and development of trees

masterplan

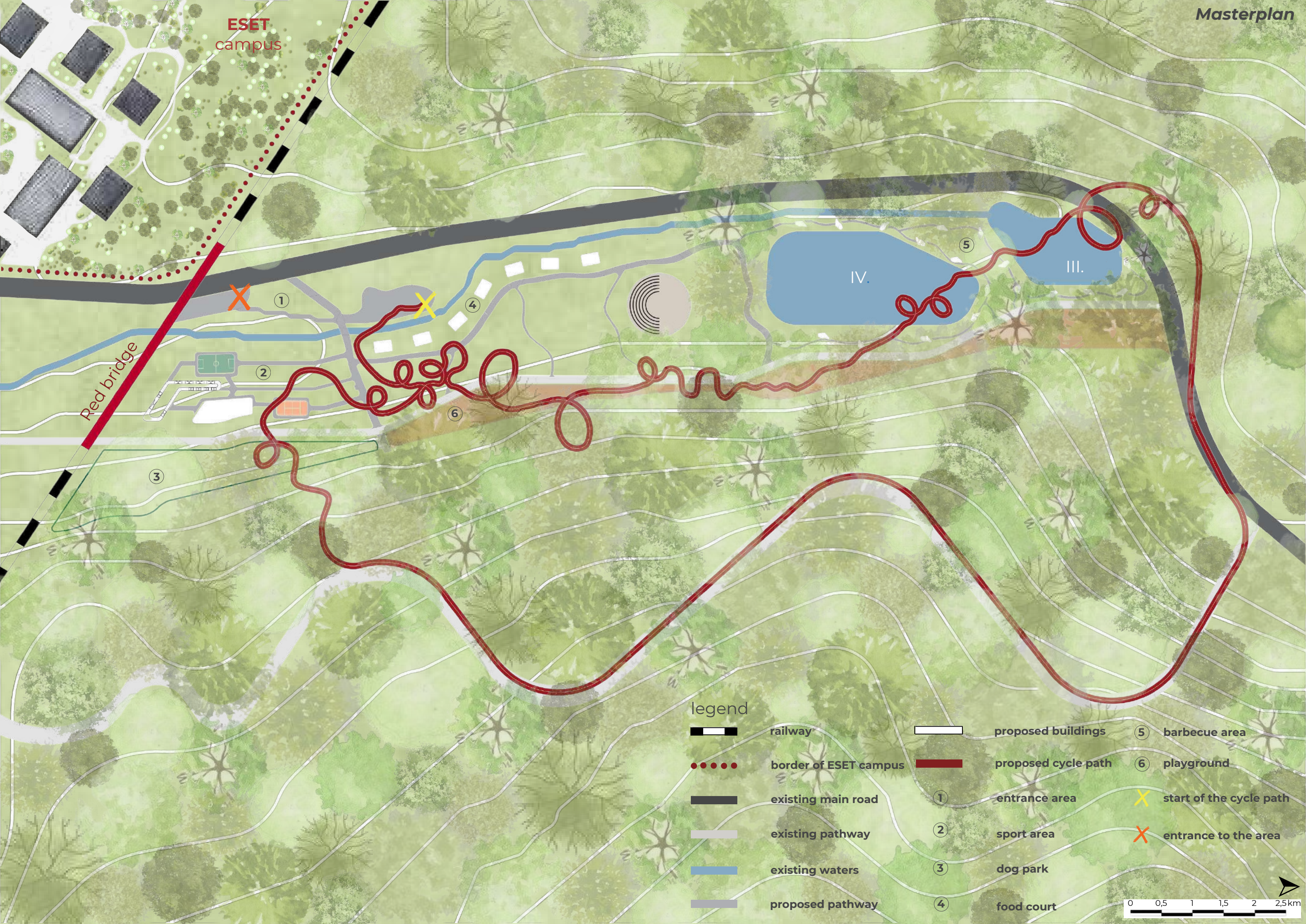
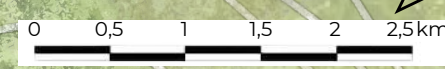


ESET campus

Red bridge

legend

-  railway
-  border of ESET campus
-  existing main road
-  existing pathway
-  existing waters
-  proposed pathway
-  proposed buildings
-  proposed cycle path
-  entrance area
-  sport area
-  dog park
-  food court
-  barbecue area
-  playground
-  start of the cycle path
-  entrance to the area

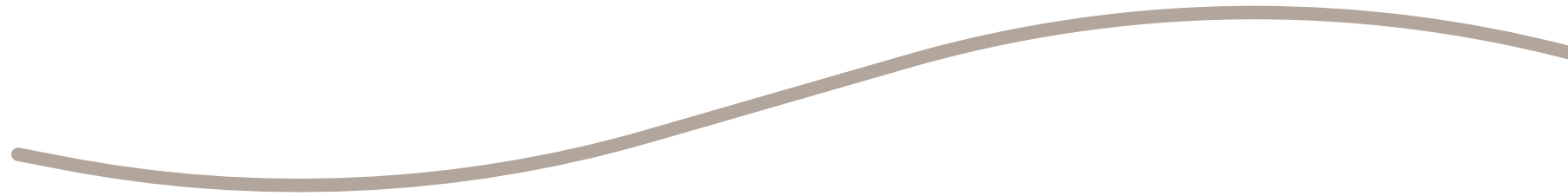




sections

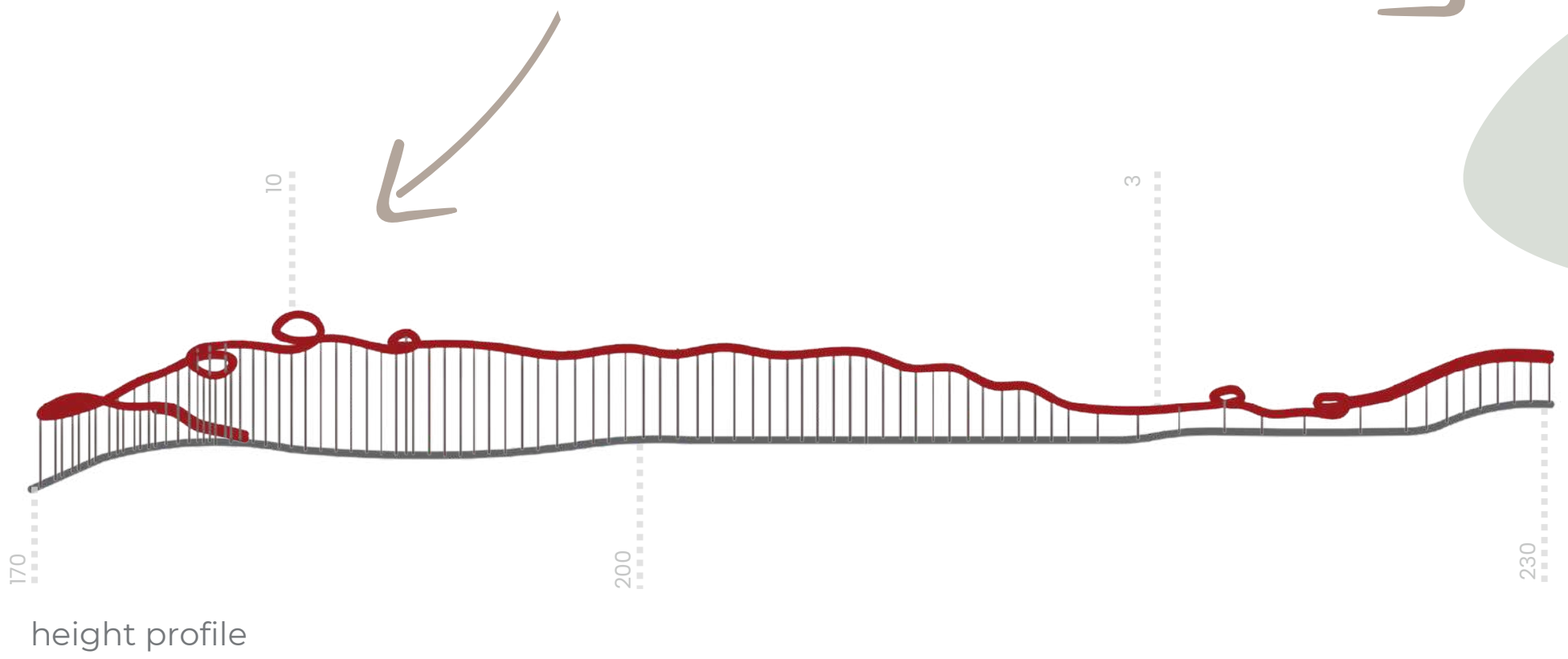
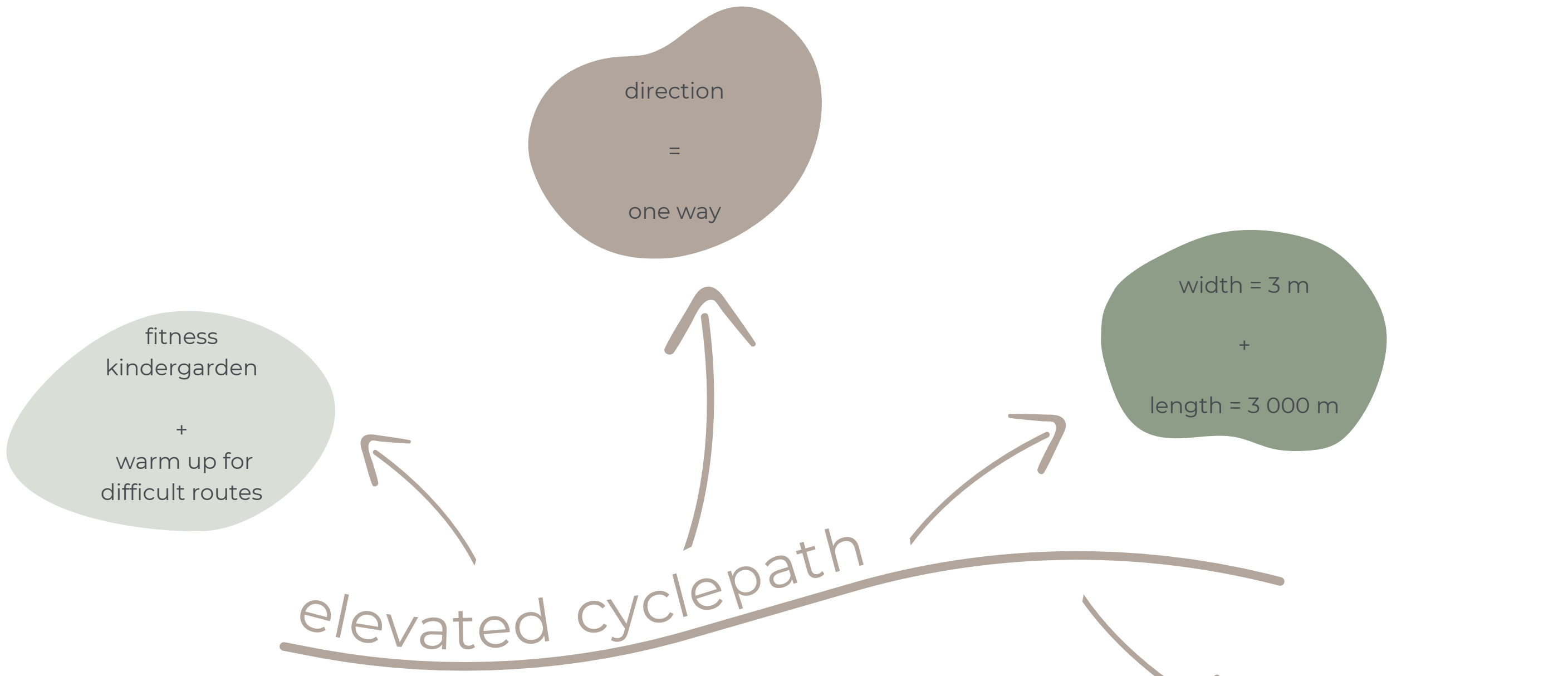


01



02



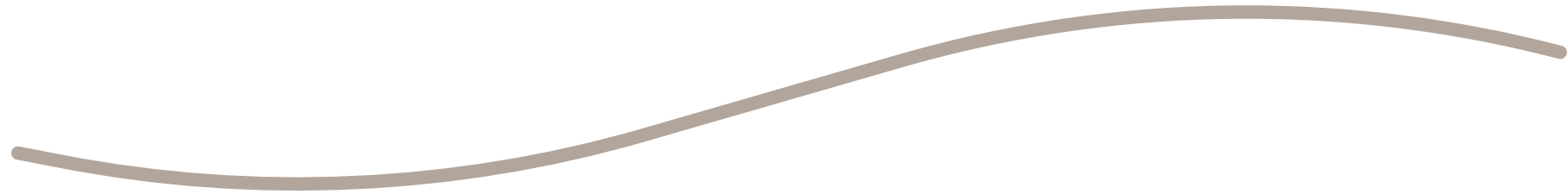


*axonometry*



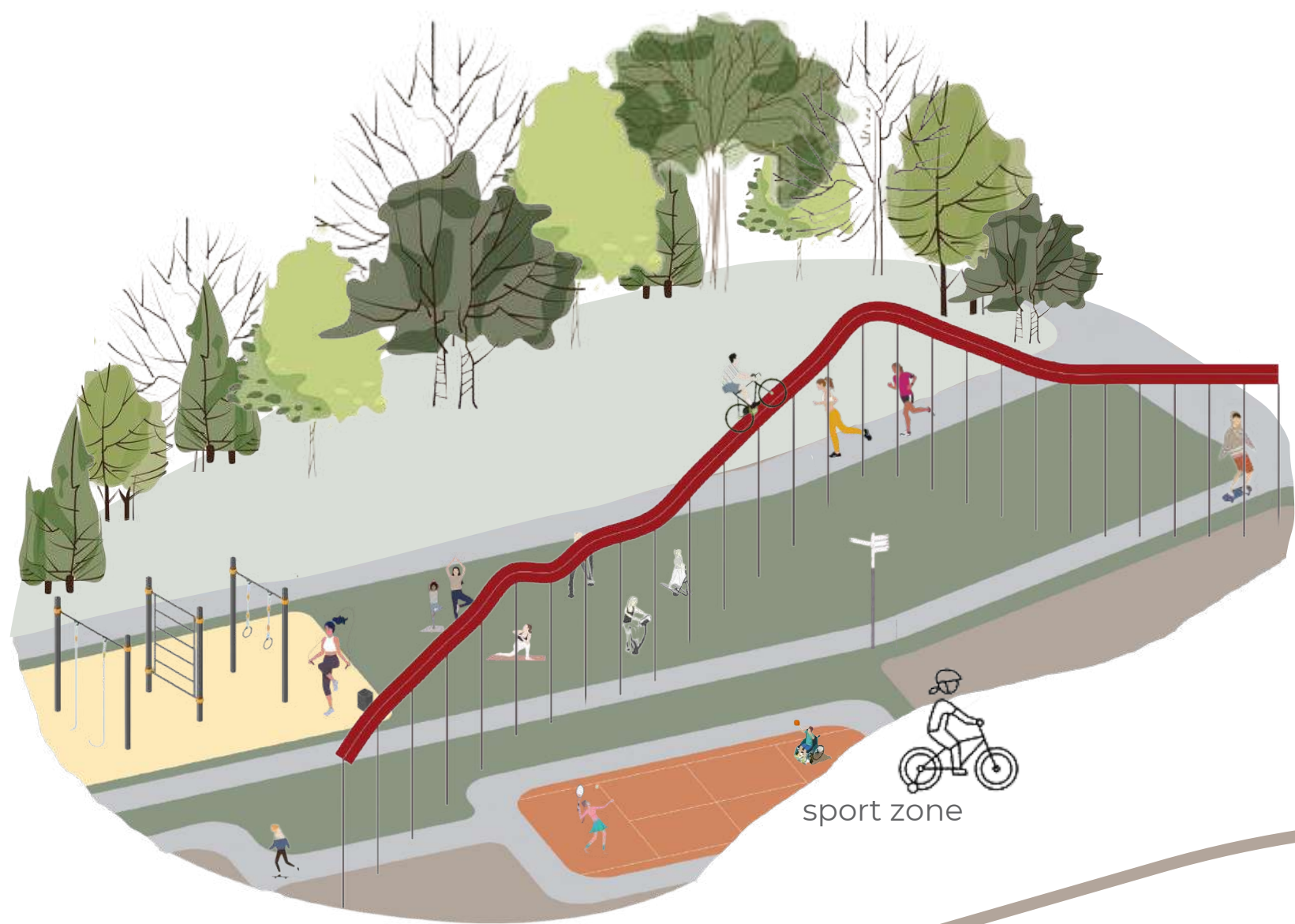


entrance

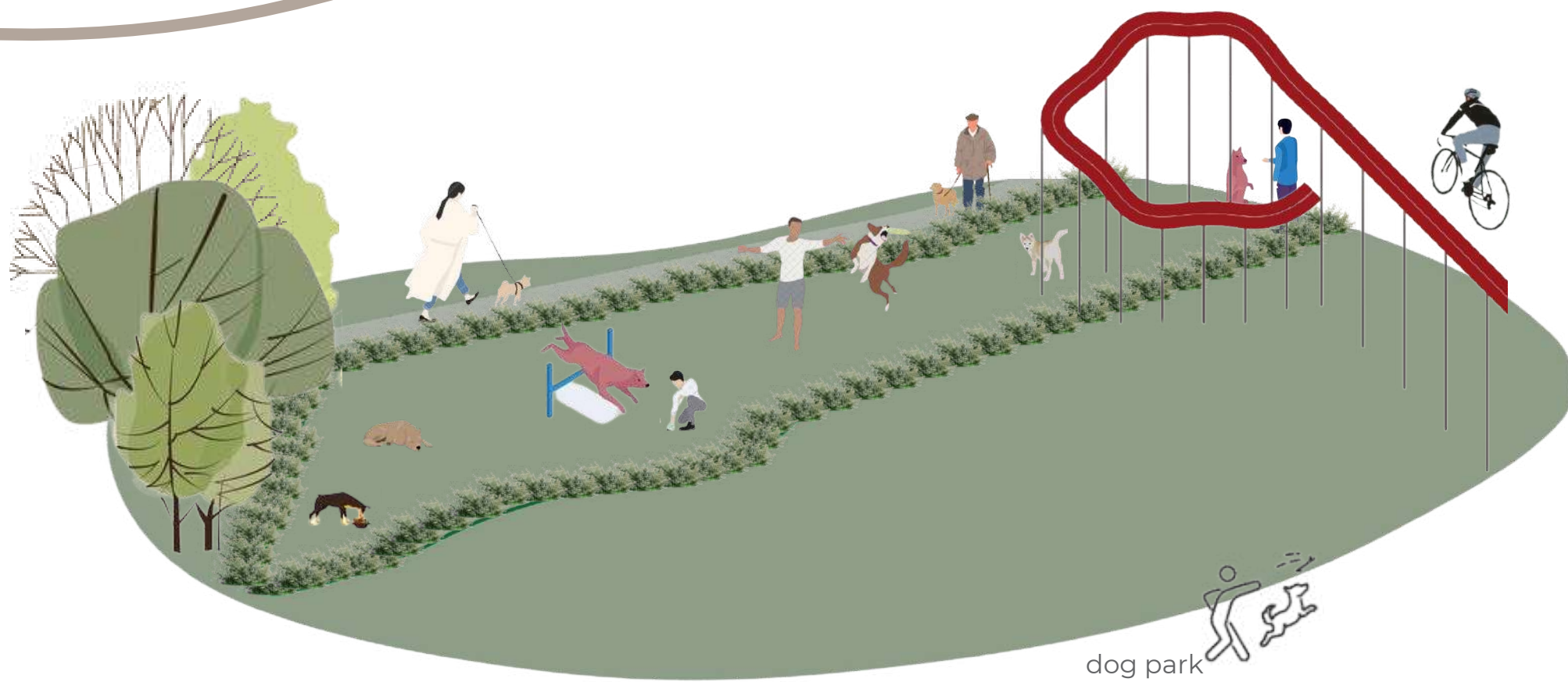


food court





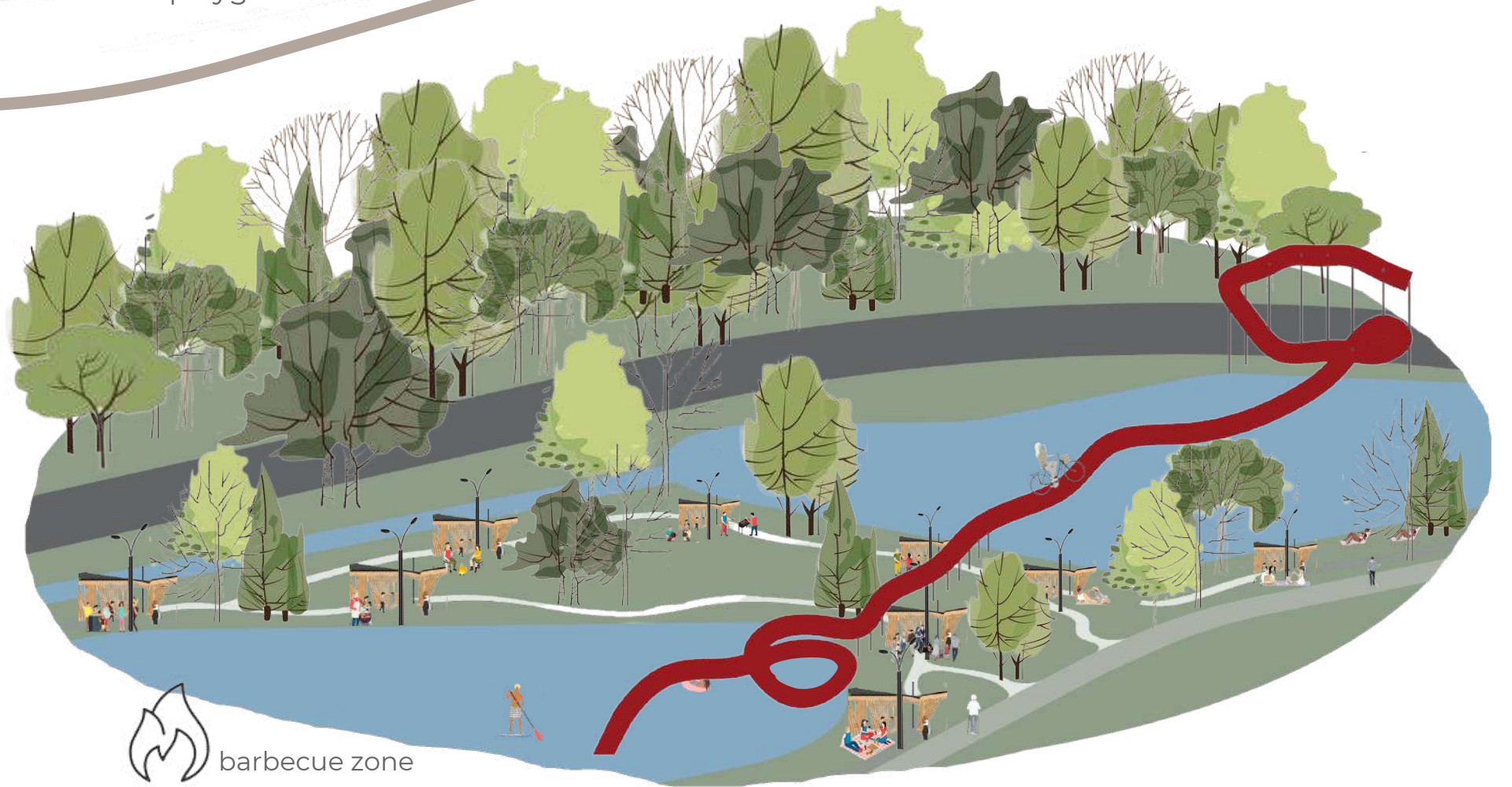
sport zone



dog park



playground



barbecue zone

*final CGI*







dog park



food court



barbecue area



sport area



elevated cyclepath



elevated cyclepath



elevated cyclepath



elevated cyclepath



*thank you*



In an era where cars rule the roads, a world without them might seem like a distant fantasy. Yet, in this hypothetical scenario, bicycles, not automobiles, would be the primary mode of transportation, ushering in a paradigm shift driven by advancements in artificial intelligence (AI).

Furthermore, AI could be harnessed to optimize cycle path design, ensuring that they seamlessly connect neighborhoods, workplaces, and recreational areas. AI algorithms could analyze pedestrian and traffic data to identify areas for path expansion or improvement, ensuring that cycle paths are accessible, well-lit, and free from safety hazards.

## *libretto*



The other half would AI could play a crucial role in managing and optimizing the cycling infrastructure. Smart sensors embedded along cycle paths could gather data on usage patterns, traffic congestion, and potential hazards. This real-time information could be used to dynamically adjust traffic lights, optimize path maintenance schedules, and identify areas for further improvement.

A world without cars, powered by cycling and AI, would be a paradigm shift in urban planning, transportation, and environmental sustainability. AI would play a pivotal role in optimizing infrastructure, traffic management, and user experience, making cycling the preferred mode of transportation for a healthier, more sustainable, and connected society.