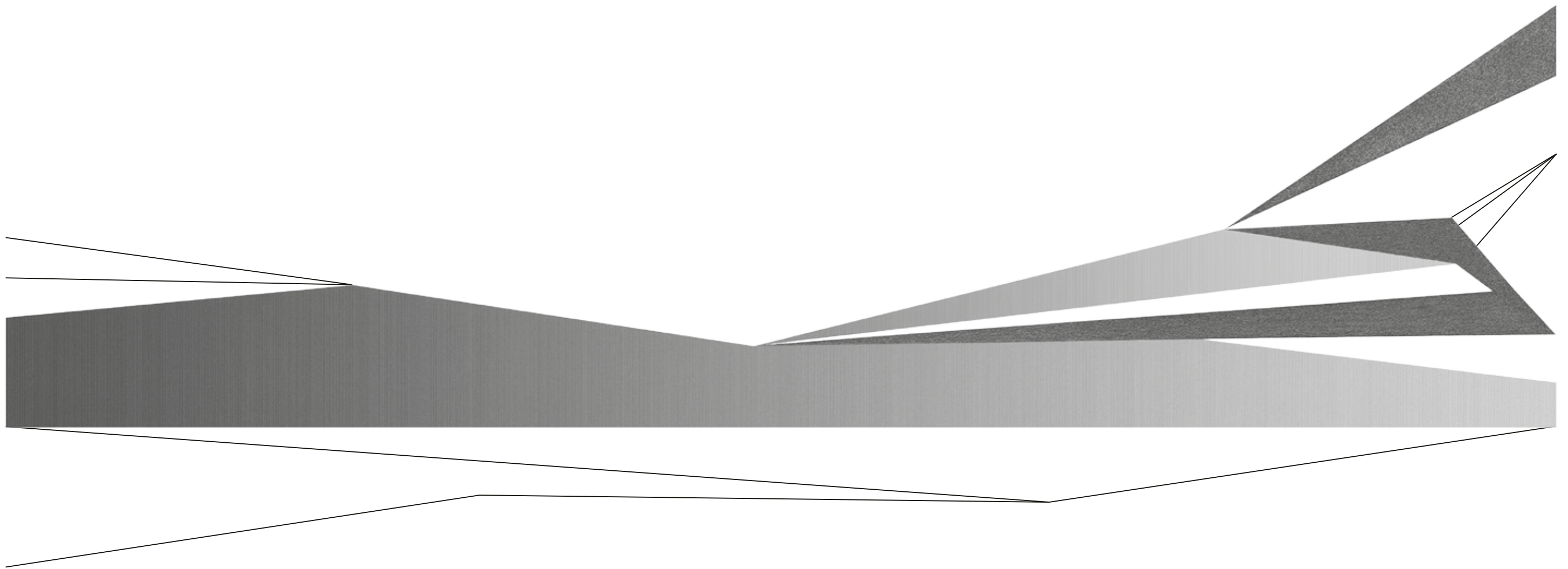


ŽP Živa Pečenko
Landscape Architect

Portfolio 2021





🏠 Slovenian
📍 Ljubljana, Slovenia, EU
✉ ziva.pecenko@gmail.com
☎ 00 386 40 685 138
🌐 www.linkedin.com/in/zivapecenko
🌐 https://zivapecenko.weebly.com

Digital skills


Advanced: Autodesk AutoCAD Map 3d Adobe Illustrator Adobe InDesign Adobe Photoshop ESRI ArcGIS ProVal 2000 Microsoft office	Intermediate: Autodesk 3ds Max with Vray SketchUp Vectorworks Landmark
	Basic: QGIS Wacom Cintiq drawing tablet

Language skills


English: C1 level, proficient user, fluent in speaking and writing
German: B1 level, intermediate user
Spanish: A1 level, basic user

Other skills

model making
hand drawing
driving licence A1, B

 graphic design

 art

 nature, plants

Articles

- January 2021– **Outsider, revija ki presega meje**
Slovenian architectural journal
• article writer, reflecting contemporary issues in the field of Slovenian landscape architecture
- 2020 **Outsider, revija ki presega meje**
Slovenian architectural journal
• article on the importance and absolute necessity of landscape design and the problem of its omitting in Slovenian project documentation
Title: Why is landscape design beneficial and socially important?
more about: [here](#)
- 2019 **Urbani izziv**
Slovenian journal about contemporary spatial planning issues
• article was on presenting my master's thesis
Title: Visual impact of business zones in Ljubljana urban region
more about: [here](#)

Work experience

- January 2020– **Freelancer**
• landscape design competitions with firm Landstudio015, Ljubljana, Slovenia (~ LP 1)
• learning German
- September 2018– January 2020 **Populus, spatial planning and landscape architecture office, Ljubljana, Slovenia**
Assistant landscape architect
• landscape building permit and implementation plans (~ LP 3, 4, 5)
• landscape analysis and plant identification
• graphic design and presentation drawings (~ LP 3)
- August 2018 **Boson, spatial planning office, Ljubljana, Slovenia, internship**
• visualisations and presentation drawings (~ LP 3)
- October 2014– January 2015 **Botanic gardens Ljubljana, Slovenia, internship**
• working in plant nursery

Achievements

- 2021 **Increased 1. prize** on national project competition for Water Centre Brežice, Brežice, Slovenia
- 2020 **3. prize** on national project competition for revitalization of Vrazov square and surrounding streets, Ptuj, Slovenia
- 2019 **Increased recognition** on national conceptual and project competition for re-imaging river Drava promenade, Maribor, Slovenia
- 2018 **1. prize** on international student competition LE:NOTRE, FUTURE! Envisioning the eco island of Gozo in 2050, Malta

Education

- 2015–2019 **Master's degree of landscape architecture**
University of Ljubljana, Biotechnical faculty, Department of landscape architecture, Ljubljana, Slovenia
• average grade of 9.6 ≈ 1.4 German grading system, finished with excellence
- 2016–2017 **Erasmus exchange study programme for 6 months**
Szent Istvan University, Faculty for landscape architecture and urbanism, Budapest, Hungary
- 2015–2011 **Bachelor's degree of landscape architecture**
University of Ljubljana, Biotechnical faculty, Department of landscape architecture, Ljubljana, Slovenia
- 2007–2011 **General high school**
Gimnazija (Gymnasium) Vič, Ljubljana, Slovenia

Volunteering

- July 2020– **Acan Slovenia, PA!** (eng. Climate architects)
• informal network of architects, landscapers and related professions
• we encourage discussions regarding sustainability and ecological questions in Slovenia with campaigns and educating

PROJECTS

- Water Centre Brežice, Brežice, Slovenia, competition work, 2021 **2**
- Le paysage embrassé, Villars, France, competition work, 2020 **8**
- Revitalization of Vrazov square, Ptuj, competition work, 2020 **12**
- Lent and Drava promenade, Maribor, competition work, 2019 **14**
- Envisioning the eco island of Gozo in 2050, Malta, competition work, 2018 **18**
- Renovation of Gorenjska street, Radovljica, professional work, 2019 **22**
- Garden design, Borovnica, professional work, 2020 **24**
- Visual impact of business zones in Ljubljana urban region, master's thesis, 2019 **28**
- Valéria tér, Budapest, student project, 2017 **32**
- Therapeutic garden of rehabilitation institute SOČA, Ljubljana, student project, 2015 **34**
- Sketches **38**

WATER CENTRE BREŽICE, BREŽICE, SLOVENIA

National project competition, **increased 1. prize**

Year: 2021

Coworkers: Jana Kozamernik (licensed landscape architect), Urška Kristina Skerl, Nika Marn, Tom Pogačar (landscape architects) in collaboration with firm Elementarna (architecture) Rok Staudacher, Ambrož Bartol, Dominik Košak, Miha Munda (architects), Matevž Zalar (licensed architect)

Tasks: concept of the project, conceptual landscape plan of the broader area (scale 1:20000), landscaping and master plans of selected areas B, C, D, E, F (scale 1:1000), posters and brochure

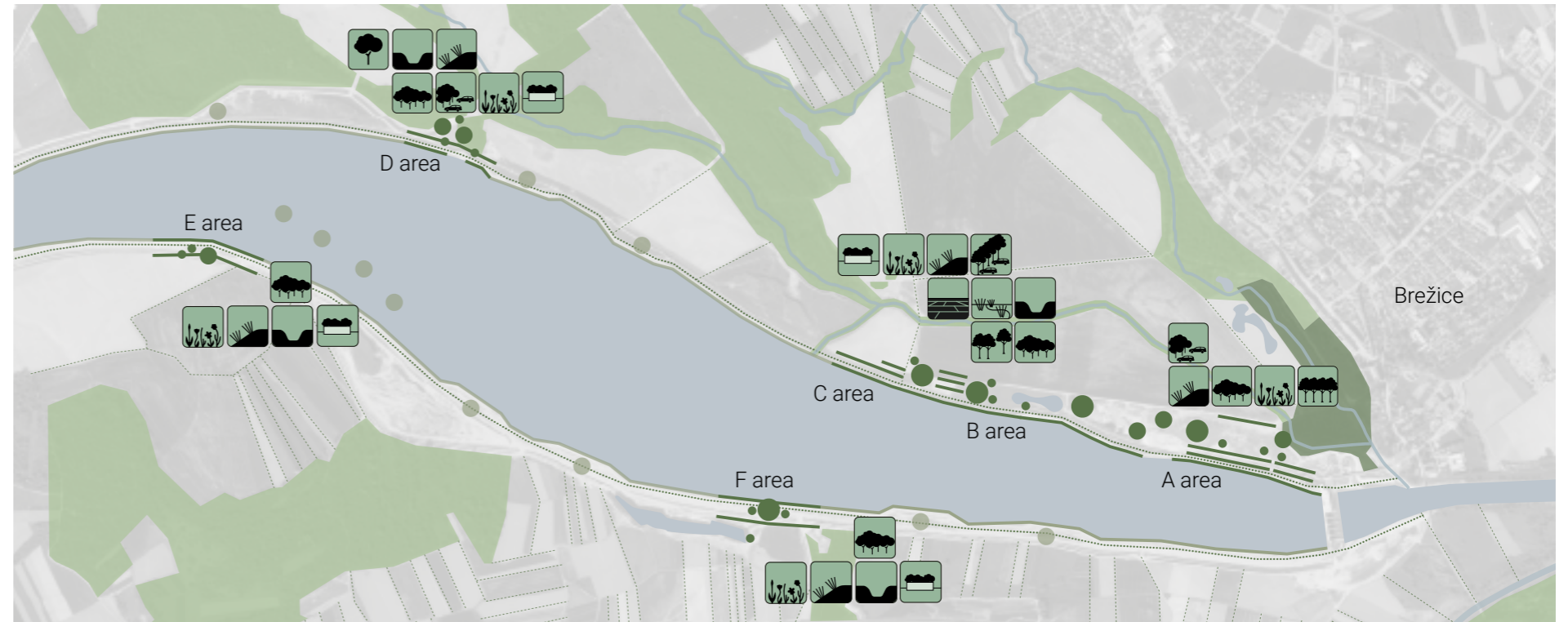
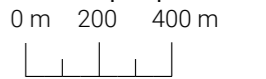
With the hydro power-plant reservoir being built, cultural landscape was changed into industrial one. The development is very recognizable artificial structure in the landscape with very distinctively lifted edges (dams), which offer open views towards silhouette of town Brežice and surrounding landscape. Design proposal is based on creating ambient sequences and adding new program components. The design language is based on reinterpreted existing landscape elements, such as tree clumps, poplar forest, ditches etc.

Jury's statements

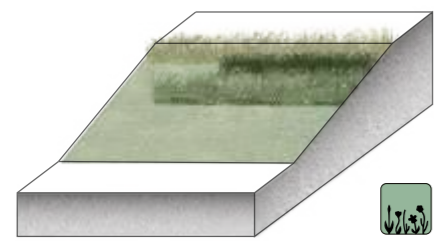
»Good understanding of the wider landscape is the biggest virtue of the competition proposal«

»The selected points are designed with the right measure and in relation to the spatial context.«

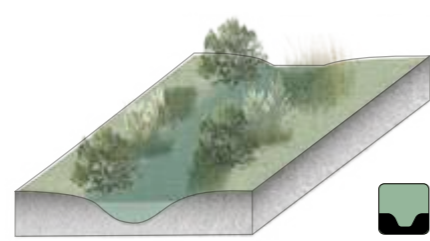
Conceptual landscape plan



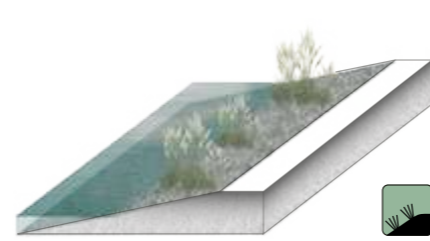
Recognized and reinterpreted landscape elements



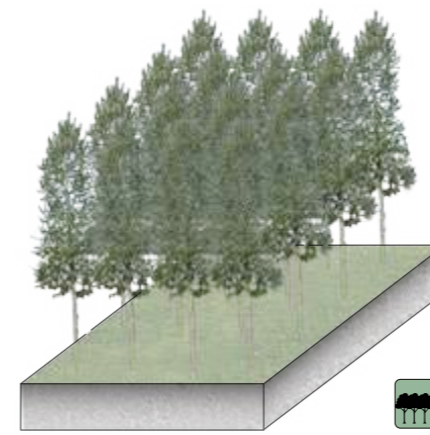
linear perennial plantings



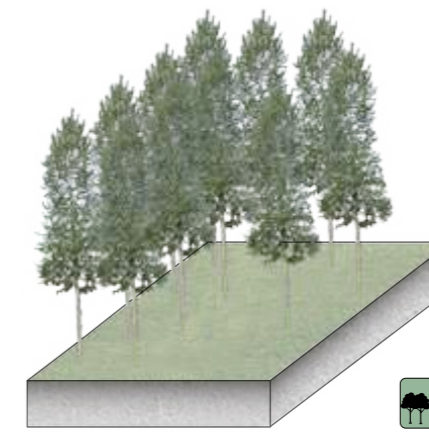
ditch



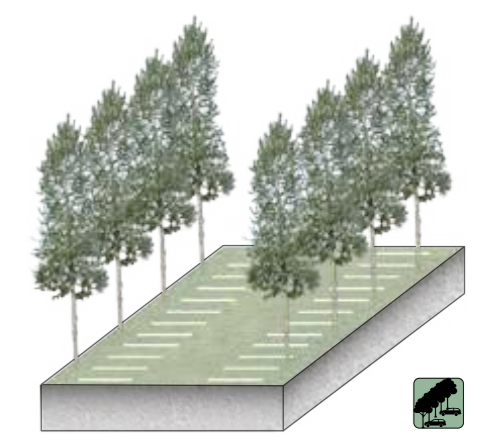
rocky bank plantings



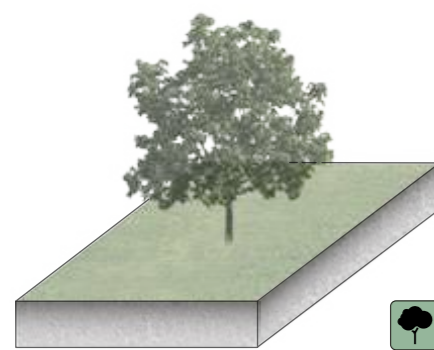
poplar forest in raster



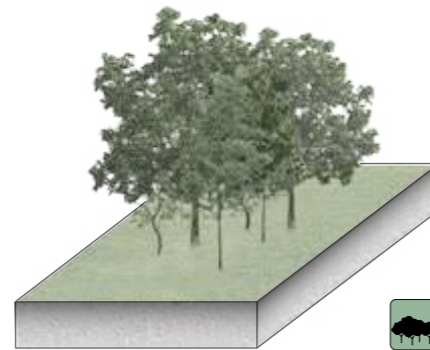
less dense poplar forest



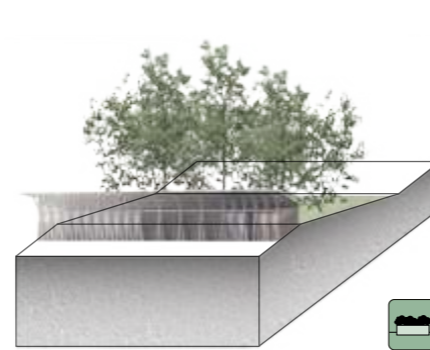
parking under poplar trees



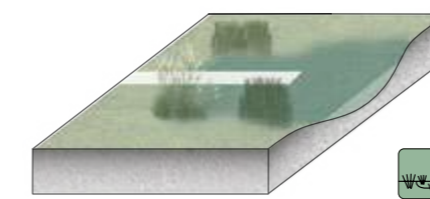
solitary tree (linden)



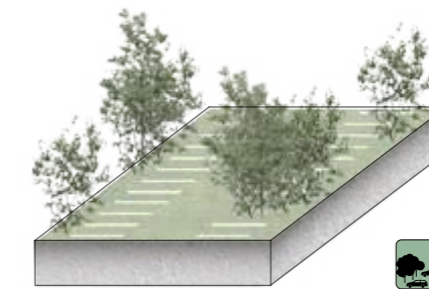
tree clumps



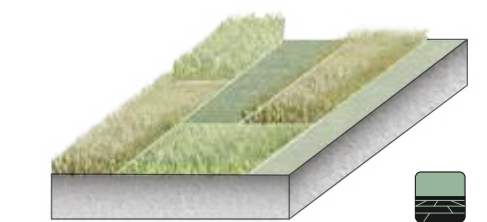
green background (green oasis)



marshes



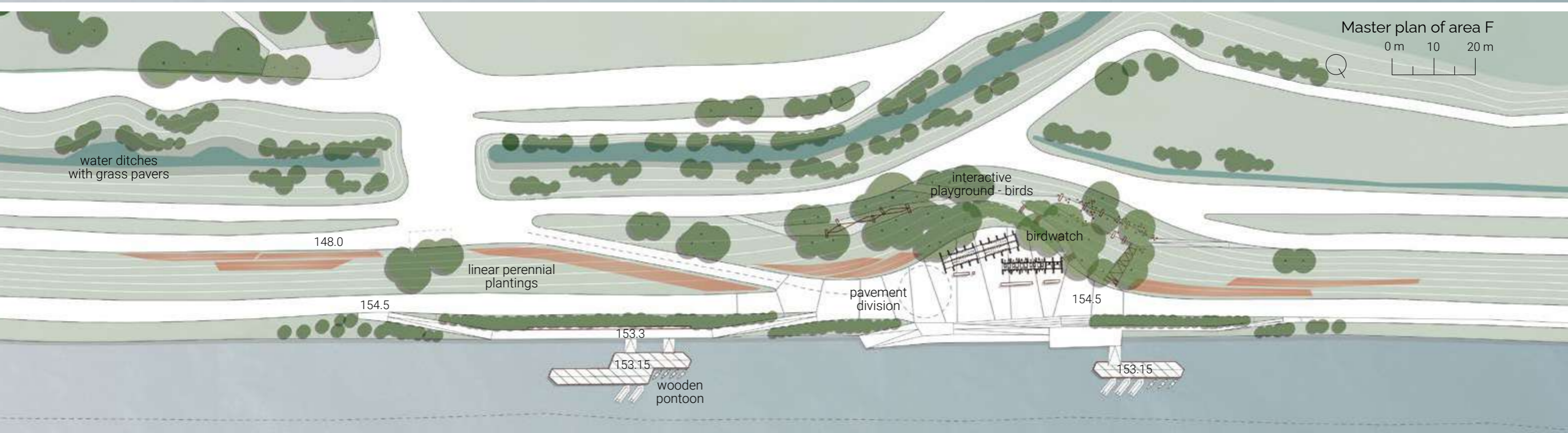
parking under tree clumps

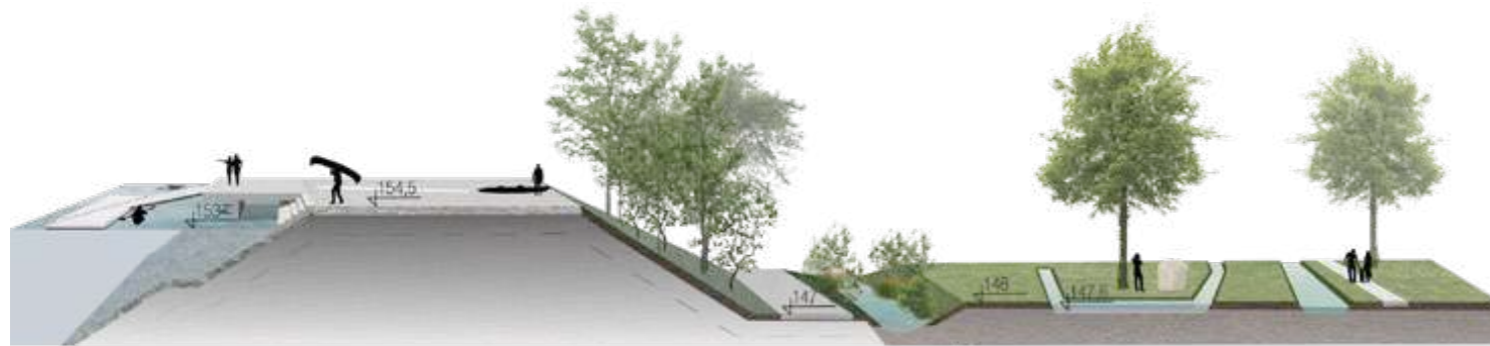


wheat fields









- wooden pontoon
- pier
- path on the dam
- place for boats
- maintenance path
- water ditch
- memorial park
- pedestrian path

Section of the area D



- fields
- maintenance path
- water ditch
- maintenance path
- birdwatch
- memorial space
- path on the dam
- green islands

Section of the area E



- path
- water ditch
- maintenance path
- forest playground
- birdwatch
- path on the dam
- terrace

Section of the area F

PLAKAT 1/3 DOSTOPNI VODNI CENTER BREŽICE

PREGLJEDNA SITUACIJA 1:20 000

SCHEMA ZELENEGA SISTEMA 1:20 000

INTERPRETACIJA KRAJINSKIH TIPOV PRI OBLIKOVANJU

A - VODNI CENTER IN B - PRISTAN VIBRINA, UREŠITVENA SITUACIJA 1:2000

A - VODNI CENTER IN B - PRISTAN VIBRINA, FUNKCIONALNA UREŠITEV V ČASU TERMOVANJA 1:2000

B - PRISTAN VIBRINA IN C - PARKIRIŠČE, UREŠITVENA SITUACIJA 1:1000

B - PRISTAN VIBRINA, PREREZ 1:300

B - DOSTOPNI VODNI CENTER - ARHITEKTURNA ZASNOVA

B - PRISTAN VIBRINA, TLORIŠ, PREREZI, FASADA ČOLNARNE, 1:200

PLAKAT 2/3 DOSTOPNI VODNI CENTER BREŽICE

15450

A - VODNI CENTER IN B - PRISTAN VRHINA, UREDITVENA SITUACIJA 1, 1000



A - VODNI CENTER, PREREZ 1, 500

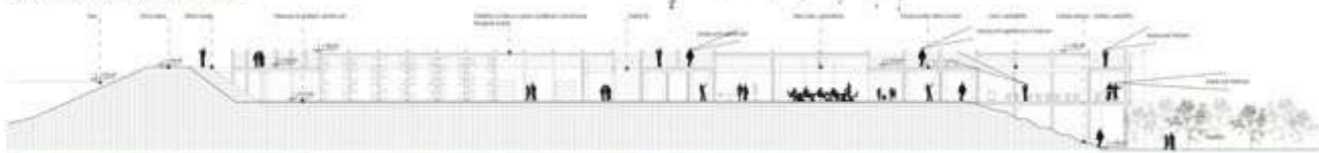


A - VODNI CENTER, TLOVIS PRITULČJA 1, 300



A - VODNI CENTER, PREREZ OBJEKTA A-A 1, 200

A - VODNI CENTER, PREREZ OBJEKTA 1-1 1, 200



PLAKAT 3/3 DOSTOPNI VODNI CENTER BREŽICE

15450

C - PARKIRIŠČE IN TRIBUNE, UREDITVENA SITUACIJA 1, 1000



C - PARKIRIŠČE IN TRIBUNE, PREREZ 1, 500



D - TLOVIS, FASADE MODULARNIH OBJEKTOV, TRIBUNE 1, 200



D - DEŽELNA MEJA, UREDITVENA SITUACIJA 1, 1000



D - DEŽELNA MEJA, PREREZ 1, 500



D - TLOVIS, FASADE MODULARNIH OBJEKTOV, RAZDREŠNICA 1, 200



E - PRISTAN ARHEOLOŠKO OBMOČJE ZASAVJE, UREDITVENA SITUACIJA 1, 1000



E - PRISTAN ARHEOLOŠKO OBMOČJE ZASAVJE, PREREZ 1, 500



E - TLOVIS, FASADE OBJEKTOV, OPAZOVALNICA 1, 200



F - SKOPICE, UREDITVENA SITUACIJA 1, 1000



F - SKOPICE, PREREZ 1, 500



F - SKOPICE, TLOVIS, FASADE MODULARNIH OBJEKTOV, STOLJO ZA ČOLNE IN KONTEJNERSKE SANITARJE 1, 200



LE PAYSAGE EMBRASSÉ, VILLARS, FRANCE

Enjoy the hospitality of a hotel with the authenticity of a village
International competition

Year: 2020

Coworkers: Ana Belčić (architect), Zala Bokal, Andraž Podvez (urban planners)

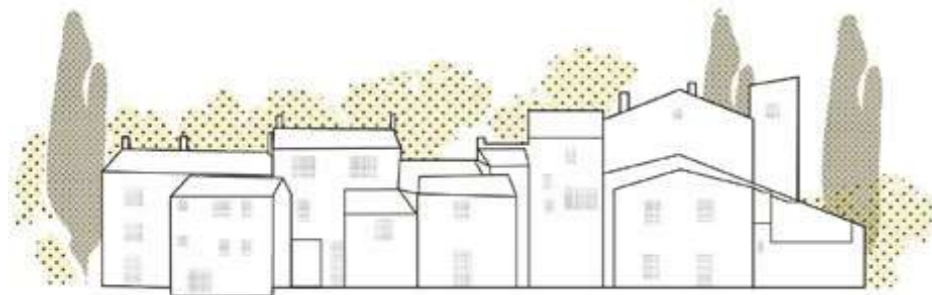
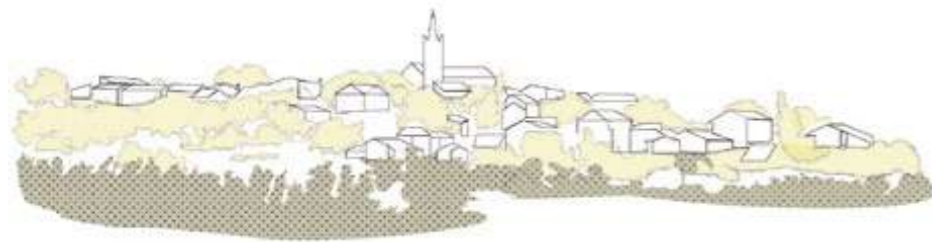
Tasks: concept of the project, landscaping and master plan (scale 1:500), landscape analysis

Seeking to embrace both the local landscape and native building patterns, the architectural concept mimics the shape of a hilltop village. The main hotel complex sinks into the landscape and blends into the surrounding terrain, remaining visible only in the front, resembling the distinct shape of carst cliff. The country club apartments are divided into small volumes, that invoke the shapes of traditional vernacular architecture seen in the area. In this way, the appearance of a large hotel complex is softened and forms a seamless connection with the existing landscape.

It is not about replication of the exact same village, that is to be found in the natural park area, but rather to observe the recognized patterns, architectural, urban planning and landscape features, and respect them as a base for the new development. Thus, not only that of a cultural landscape itself is forming an inspiring design ideas field, respecting the existing means intervention in space, that does not not impose itself in the contexts of the park.



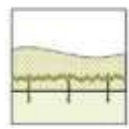
Typical village in Provence



Recognized landscape elements



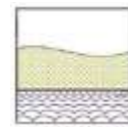
dispersed settlement



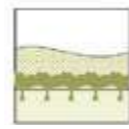
vineyards



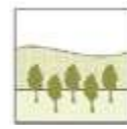
pine avenues



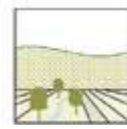
lavandula fields



olive plantations



orchards



creeks with riparian vegetation



hamlet



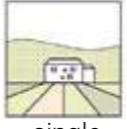
quarry



square fountain



village on flat terrain



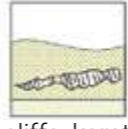
single farmhouse



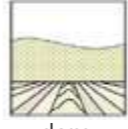
mosaic shape of fields



industrial zone



cliffs, karst edges



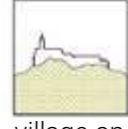
dam



pine, oak forest



valley hills



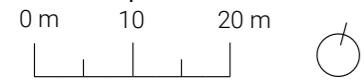
village on hill



pond, marshes



Master plan



Urban plan concept



Local urbanism

Reinterpretation of the local urbanism



REVITALIZATION OF VRAZOV SQUARE AND SURROUNDING STREETS, PTUJ, SLOVENIA

National project competition, **3. prize**

Year: 2020

Coworkers: Zala Bokal, Zala Koleša, Andraž Podvez (urban planners) in cooperation with larger team of architects and urban planners

Tasks: master plan of Vrazov square (scale 1:200), concept and technical drawings of mobile street furniture (scales 1:100, 1:50), technical detail of temporary roof anchoring (scale 1:5)

During the competition I primarily worked on concepts and possible pavement patterns for Vrazov square. I also prepared design concepts and final drawing for the atrium, surrounded by former Glasswork house. Furthermore, I worked on functional scenarios of Vrazov square, concepts and final drawings of movable street furniture as well as technical detail of movable roof anchoring. As the only landscape architect in the team, my focus was also on green areas, plants positioning and species selection.

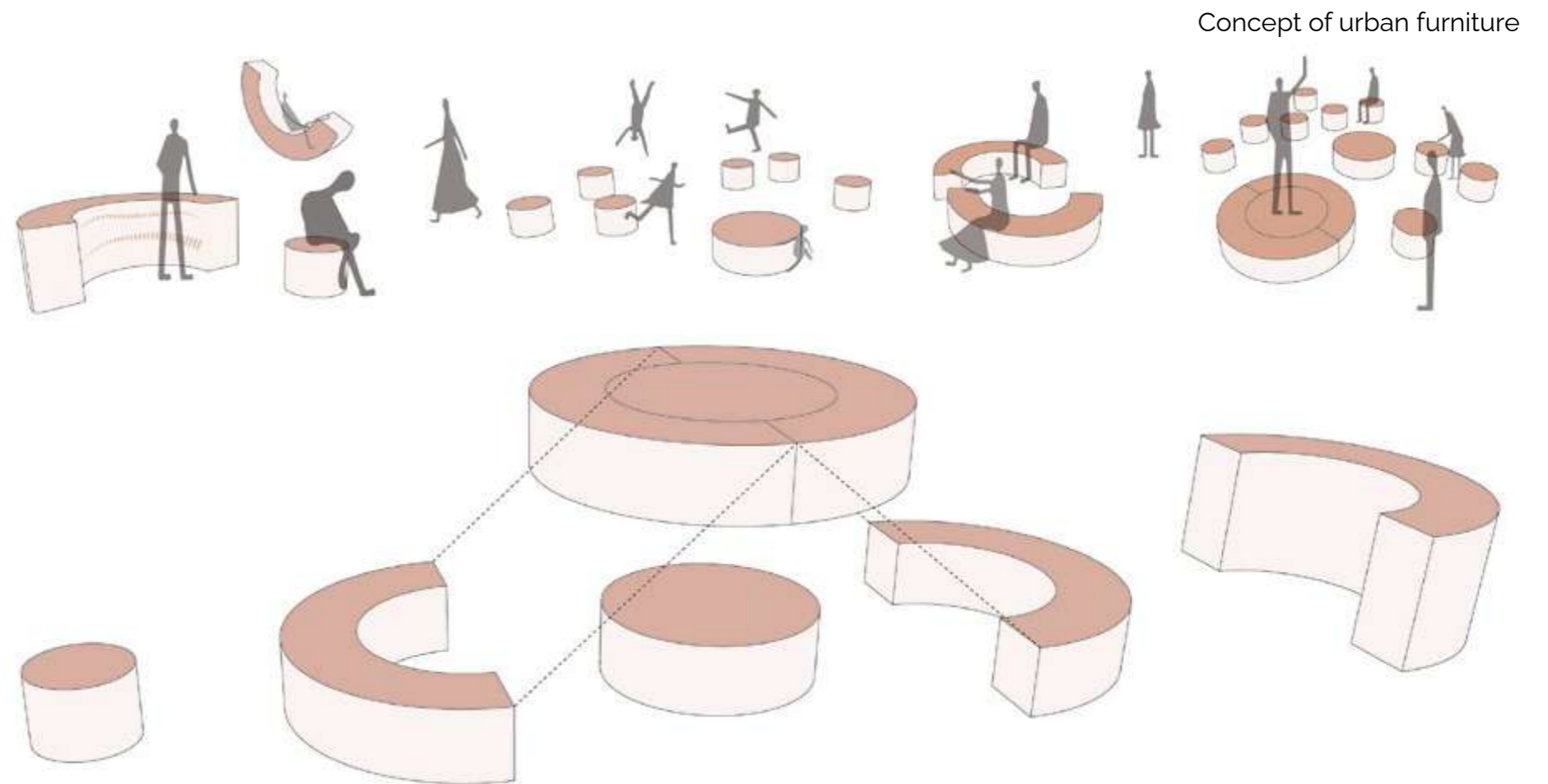
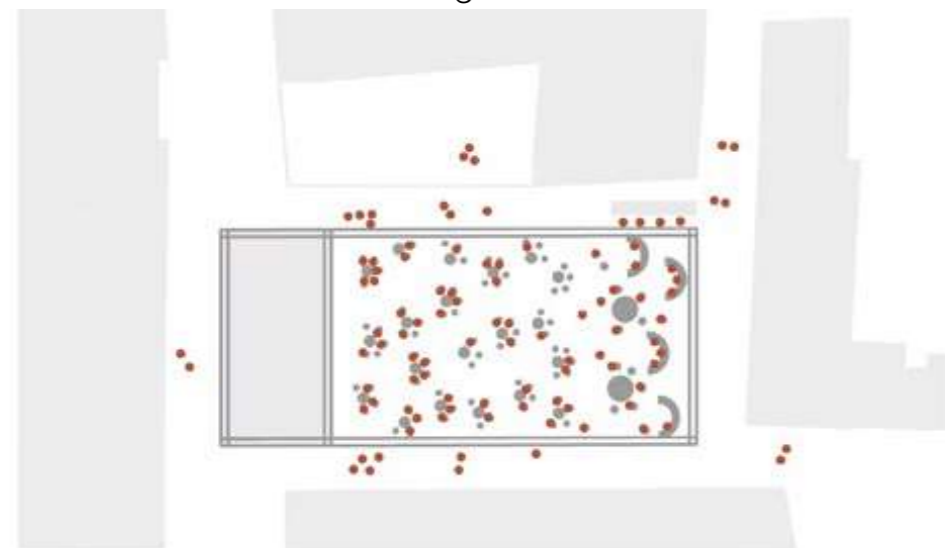
The main competition task regarding open public space was to design flexible and functional space, that can host different events. In order to persist functional flexibility of the square, we suggested the concept of movable and modular urban furniture. The shape of furniture creates visual contrast to simple pavement pattern. The atrium is functionally connected to the new cultural program of former Glasswork house, as it functions as outdoor amphitheatre.

Jury's statement

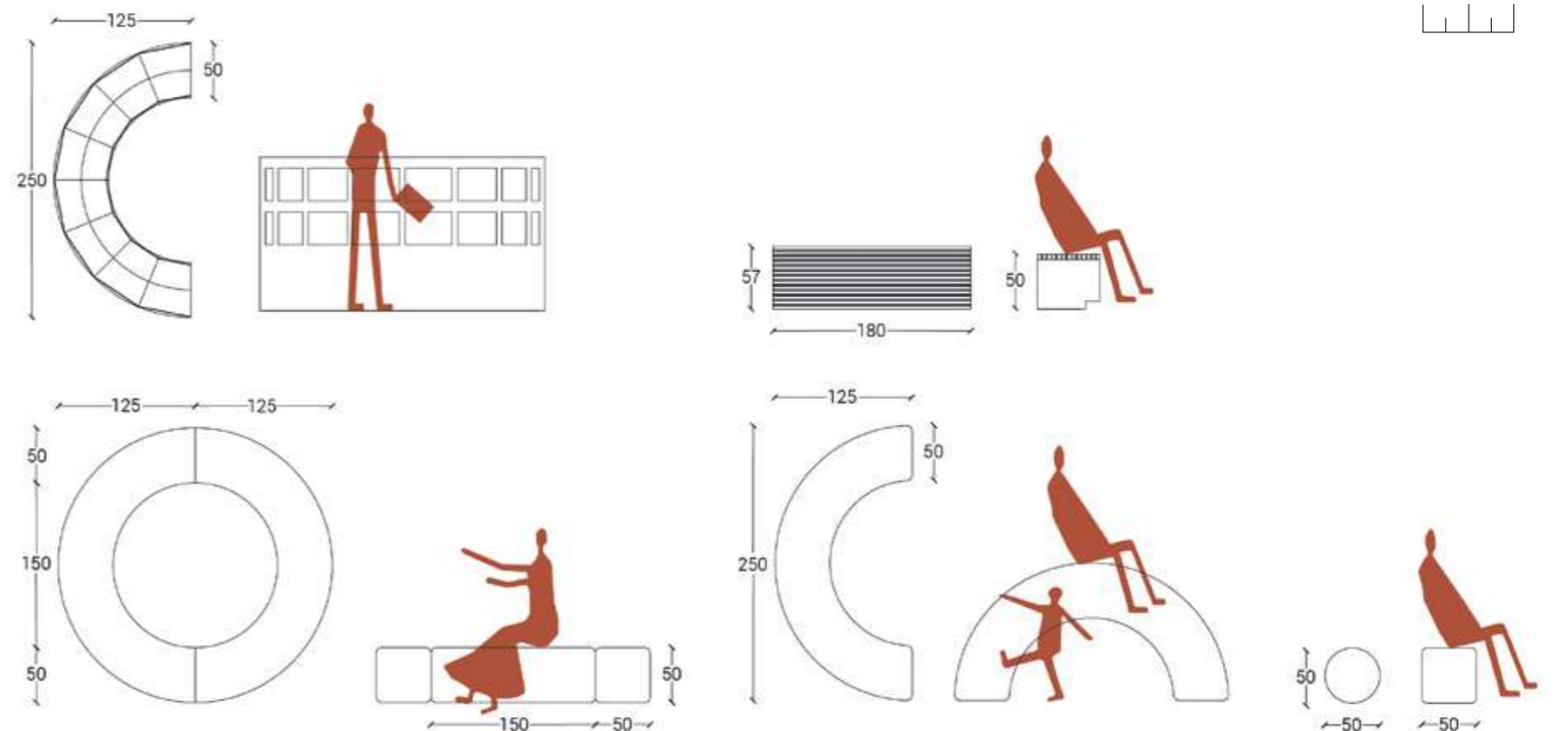
»Competition elaborate offers suitable design solutions of outdoor public space.«

»The concept of moveable urban furniture is interesting, as it can form flexible ambient.«

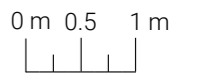
Functional scenario of Vrazov square, music event with movable stage and roof



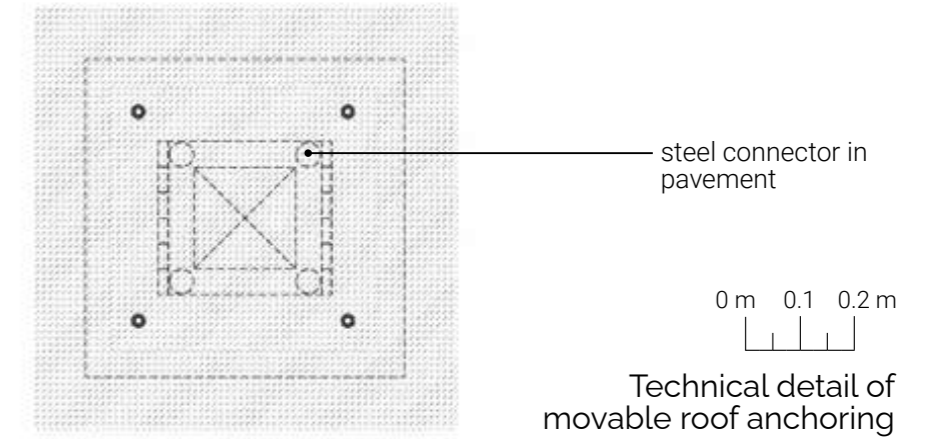
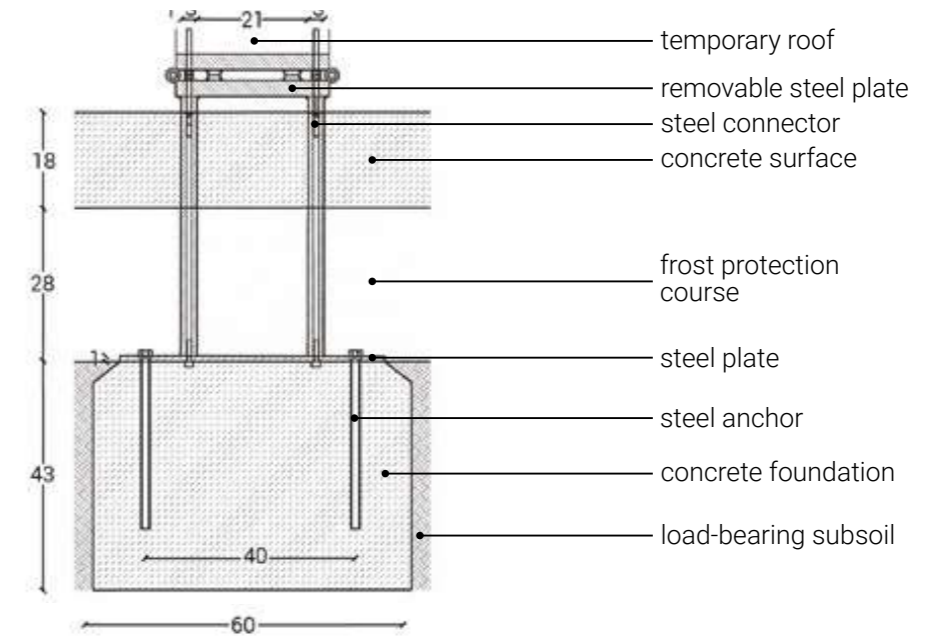
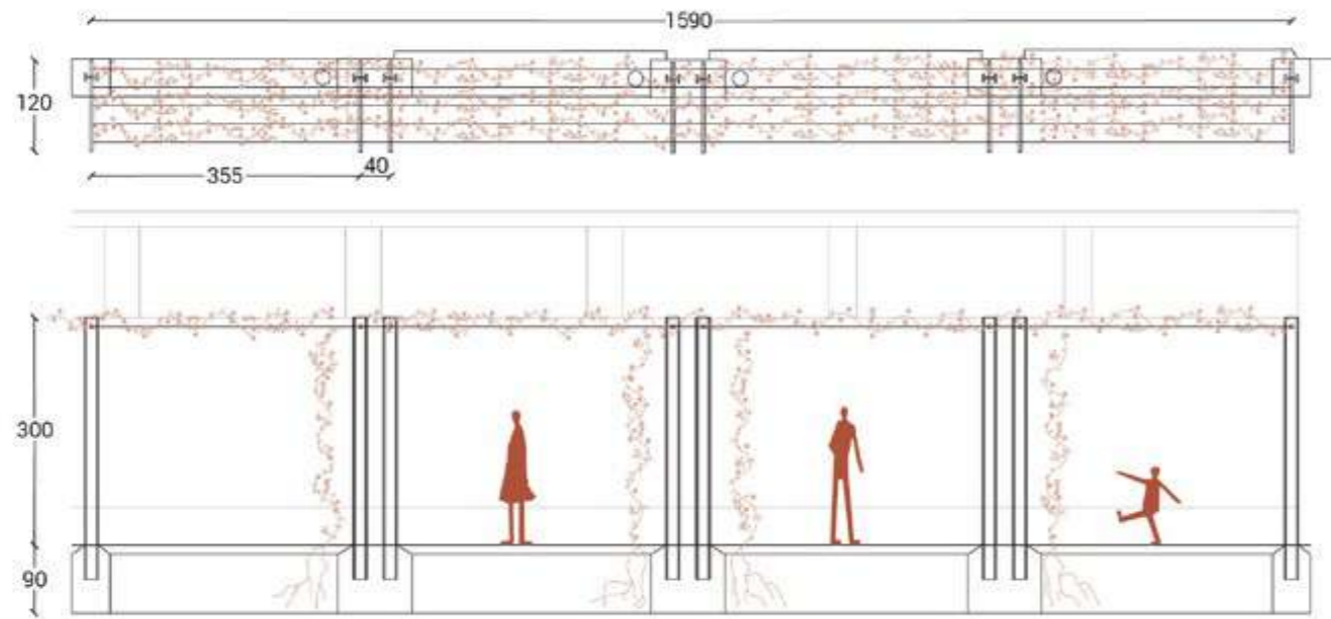
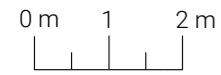
Concept of urban furniture



Urban furniture in details



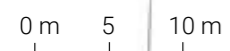
Pergola



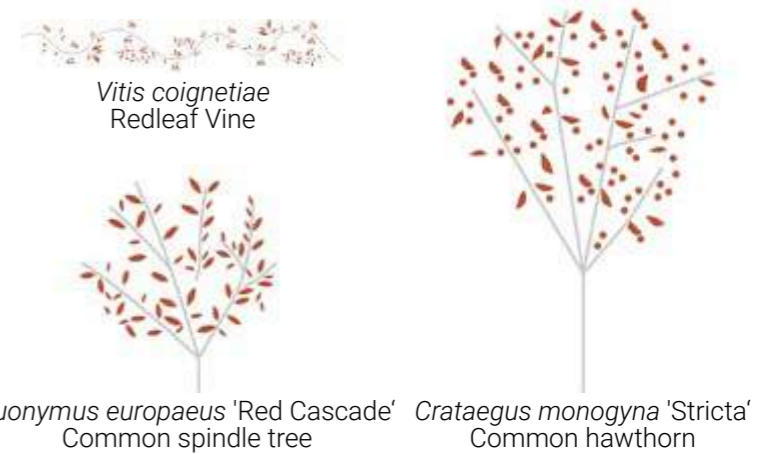
Technical detail of movable roof anchoring

- A atrium
- B1 Vrazov square
- B2 Vrazov square, piazza
- C mobile street furniture
- D plant selection

1. sitting spot in front of national museum
2. pebble pavement
3. street gutter
4. water mirror
5. pergola
6. amphitheater
7. grass crate
8. green pocket



Master plan



RIVER DRAVA PROMENADE, MARIBOR, SLOVENIA

National conceptual and project competition, **increased recognition**

Year: 2019

Coworkers: Nika Marn (landscape architect), Aleksander Vujovič (architect) in cooperation with larger group of architects and urban planners

Tasks: landscape concept, conceptual landscape plan of the broader area (scale 1:5000), landscape plans of selected areas (scale 1:2000), selected landscape design detail (scale 1:500), presentation drawings

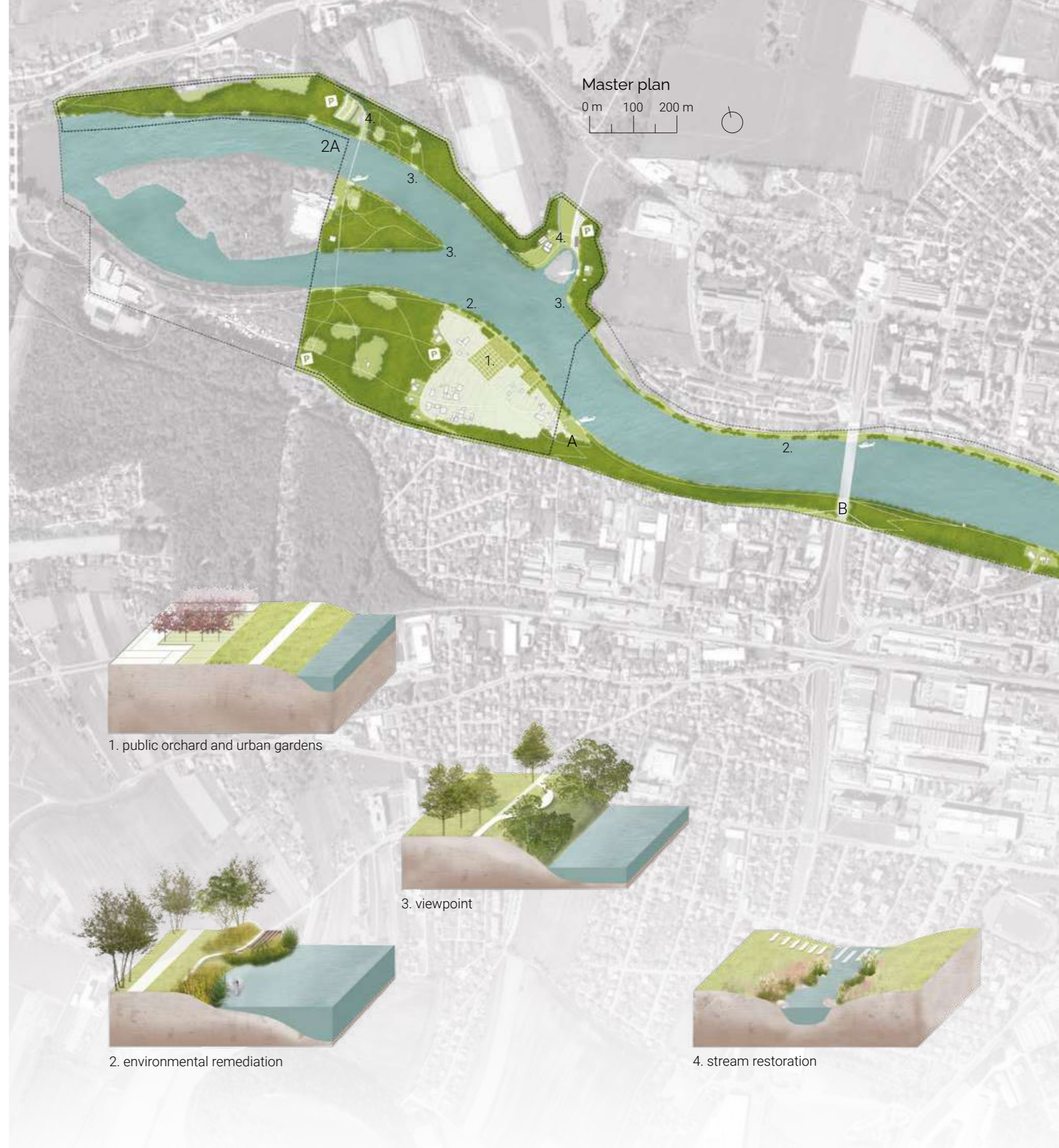
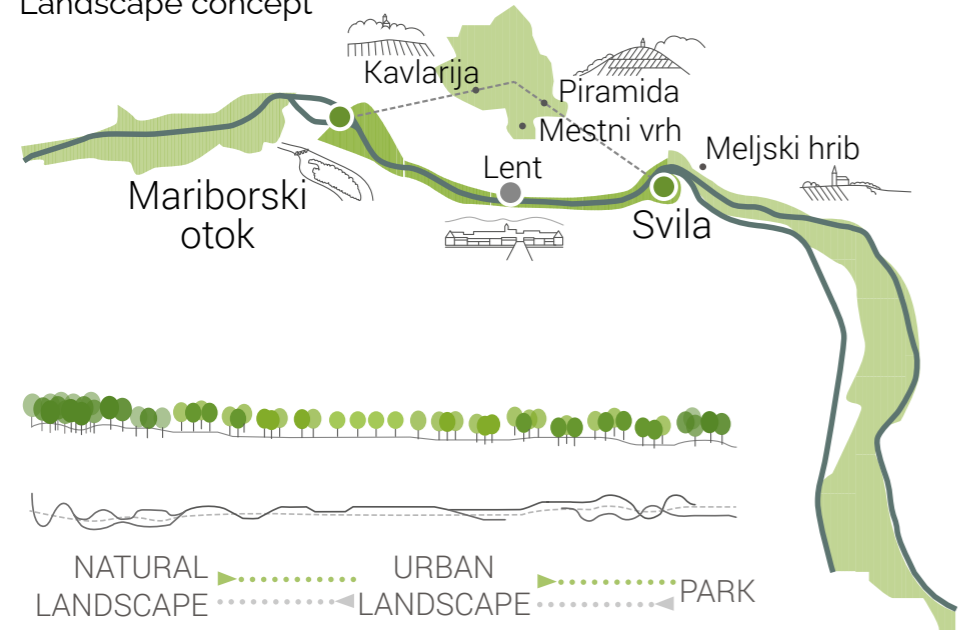
The competition was held in two different levels; (1) conceptual landscape level, which was concerned with comprehensive revitalization of river Drava in town Maribor and (2) project urban design level of Maribor's historical quarter named Lent. My main focus was on conceptual landscape plans, where I worked on landscape concepts and prepared master plans firstly in CAD and secondly in Adobe software.

River Drava is conceptually considered as the main natural and visual connection between two important areas of natural heritage, Mariborski otok (Maribor's island) and park Melje (Svila). The promenade is designed and identified as a continuous sequence of green areas with different types of plantings and new program components. Our design proposal is preserving heterogeneity of existing urban and landscape character, which is proceeding from natural to urban landscapes.

Jury's statement

»Competition elaborate offers /... / one of the best conceptual plan of broader landscape context. Authors understand the spatial scale and manage to resolve its complexity in different ways and layers.«

Landscape concept



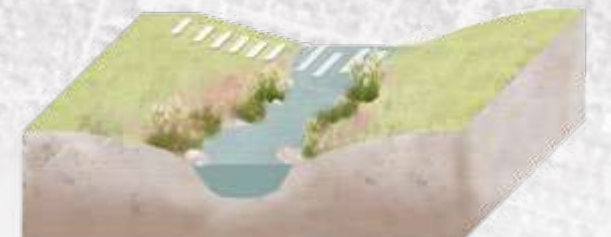
1. public orchard and urban gardens



3. viewpoint



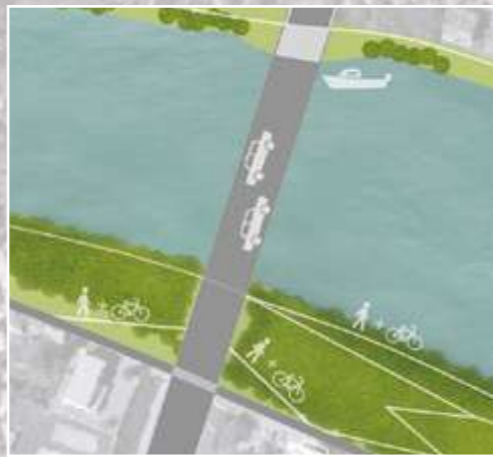
2. environmental remediation



4. stream restoration



A

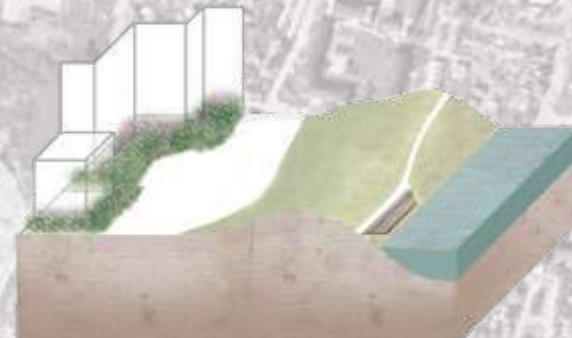
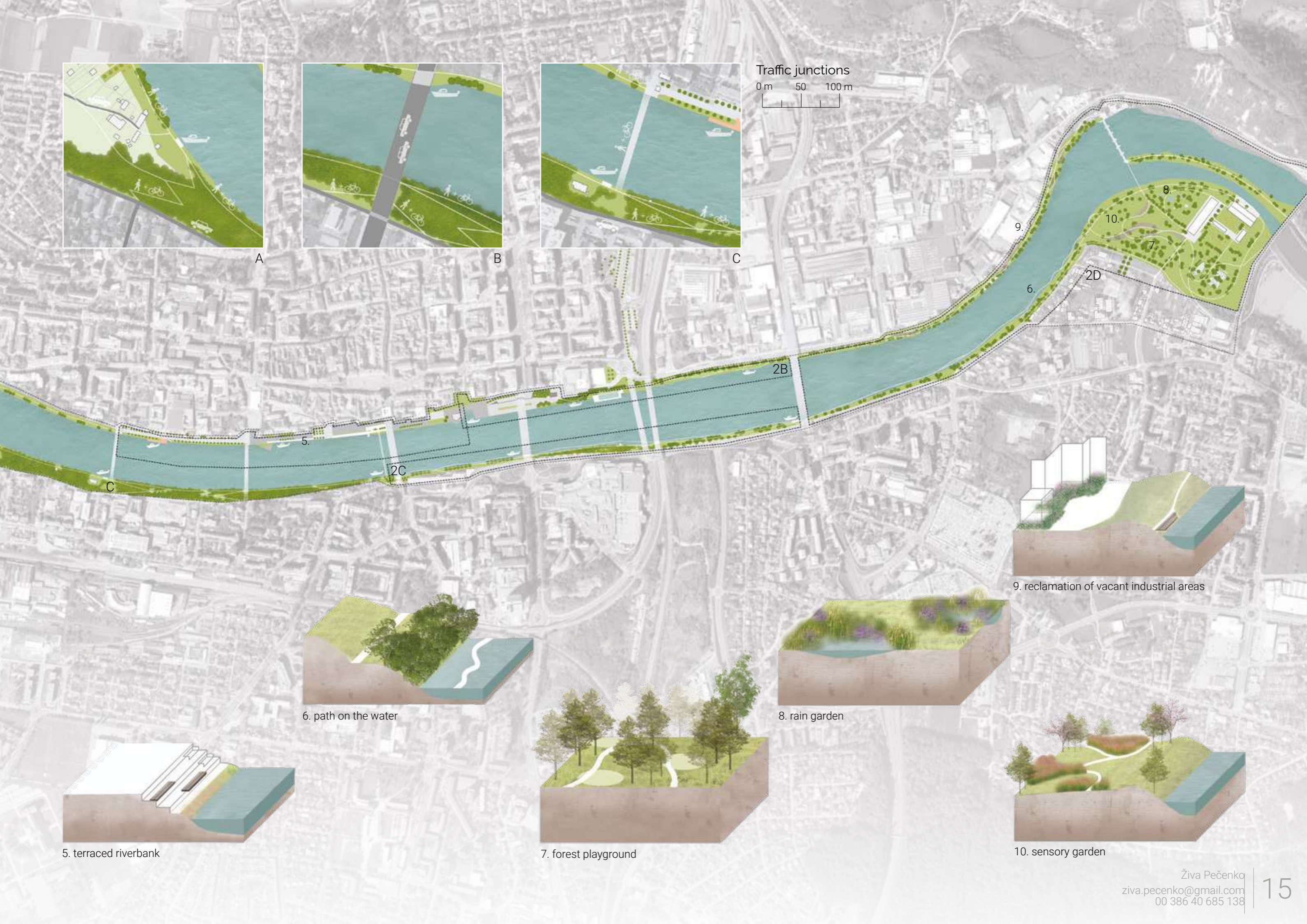


B



C

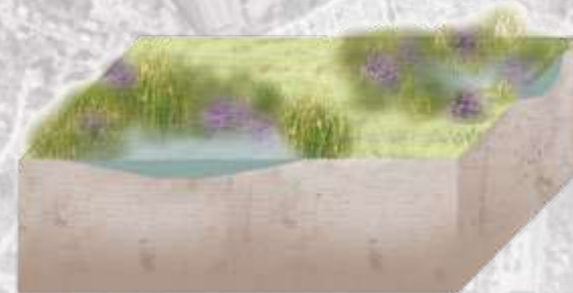
Traffic junctions
0 m 50 100 m



9. reclamation of vacant industrial areas



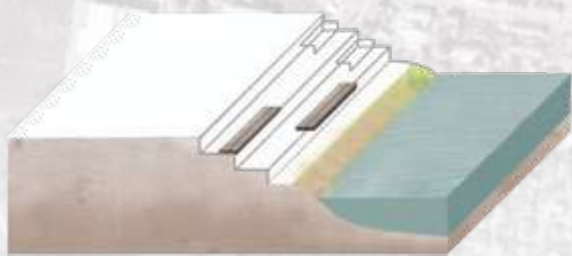
6. path on the water



8. rain garden



7. forest playground



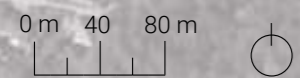
5. terraced riverbank



10. sensory garden



- 1. botanic gardens and park of sculptures
- 2. beach volleyball court
- 3. lawn bowls
- 4. picnic points
- 5. camping
- 6. creek revitalization
- 7. bus stop
- 8. multi-functional object (bus stop, info-point, bicycle shed)
- 9. green parking
- 10. access to the river
- 11. viewpoint (forest clearing)
- 12. adrenaline park with playground
- 13. renovation of existing building, restaurant
- 14. bioengineering and environmental remediation
- 15. urban gardens
- 16. public orchard
- 17. info-centre
- 18. rafting access
- 19. café gardens



Master plan of area 2A

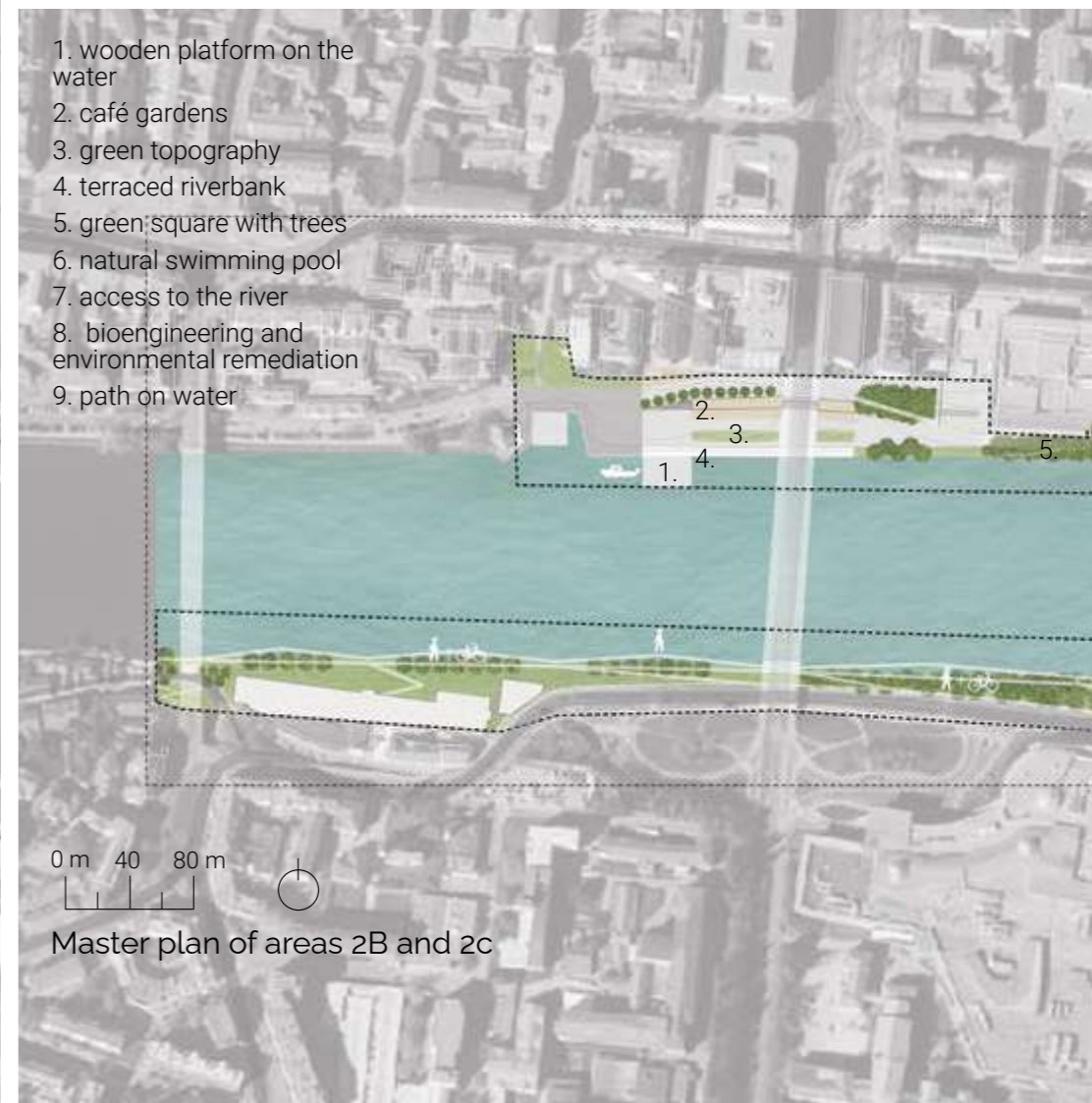
Živa Pečenko
 ziva.pecenko@gmail.com
 00 386 40 685 138



- 1. wooden platform on the water
- 2. café gardens
- 3. green topography
- 4. terraced riverbank
- 5. green square with trees
- 6. natural swimming pool
- 7. access to the river
- 8. bioengineering and environmental remediation
- 9. path on water

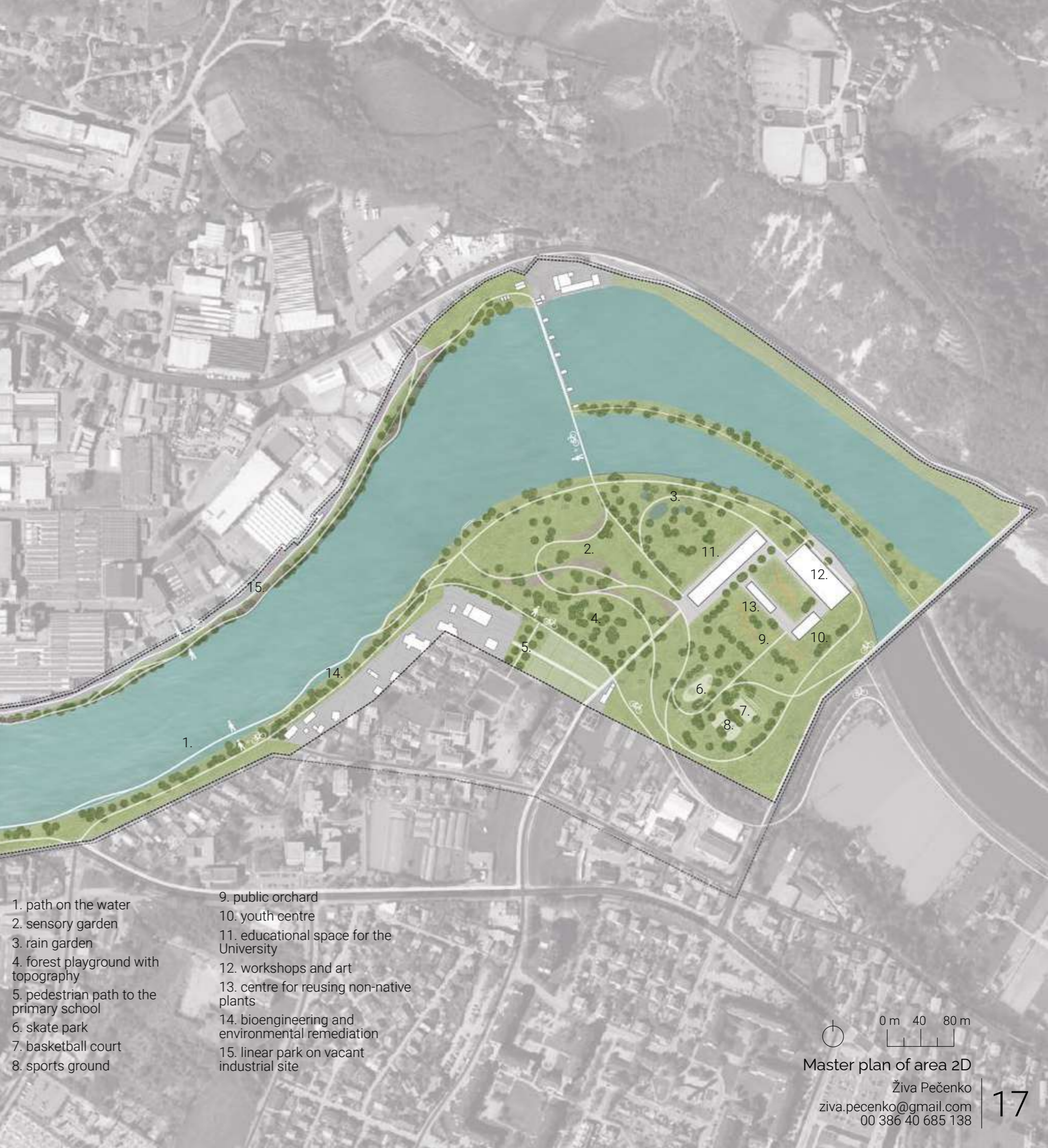


Master plan of areas 2B and 2c





- 1. info-centre
- 2. planting with middle-sized grasses
- 3. creek revitalization
- 4. café gardens



- 1. path on the water
- 2. sensory garden
- 3. rain garden
- 4. forest playground with topography
- 5. pedestrian path to the primary school
- 6. skate park
- 7. basketball court
- 8. sports ground
- 9. public orchard
- 10. youth centre
- 11. educational space for the University
- 12. workshops and art
- 13. centre for reusing non-native plants
- 14. bioengineering and environmental remediation
- 15. linear park on vacant industrial site

ENVISIONING THE ECO ISLAND OF GOZO IN 2050, MALTA

International student competition LE:NOTRE, FUTURE!
Envisioning the eco island of Gozo in 2050. **1. prize**

Year: 2017/2018

Coworkers: Urška Eler, Dominik Jakša, Nika Marn, Petra Pečan, Tom Pogačar (landscape architects)

Tasks: landscape analysis, sections and infographics, master plan of Gozo and Comino (scale 1:10 000), GIS modelling, landscape design of selected detail (scale 1:1000)

The competition task was to create a new vision for future landscape development of island Gozo, Malta. Since the working scale was more landscape planning than design oriented, we approached the task methodologically and systematically. At first, we did landscape and S.W.O.T analysis, which were divided into three different topics. Furthermore, we tested out possible landscape futures in the shape of scenarios. Conclusions from the analysis and scenarios were used as a basis for our vision proposal. The vision was supported by the suggestion of new programs and landscape principles, which were later mapped in the final master plan. In the end we prepared landscape design plan of selected detail. This project was one of the most complex projects I did, as I was actively participating in the all previously mentioned methodological steps.

With ecotourism and regional agriculture as a response to increasingly numerous consequences of climate change, we recognize the opportunity for the spatial development of Gozo and Comino by establishing a new green system and landscape related principles. The vision of spatial development is divided into three main topics: (1) landscape, in terms of ecological land-use changes and preservation of characteristic landscape typologies; (2) economy, as a combination of high technology food production along with traditional agriculture for preservation of landscape typology and new ecotourism niches; (3) exploitation of energy and water potential.

Jury's statements

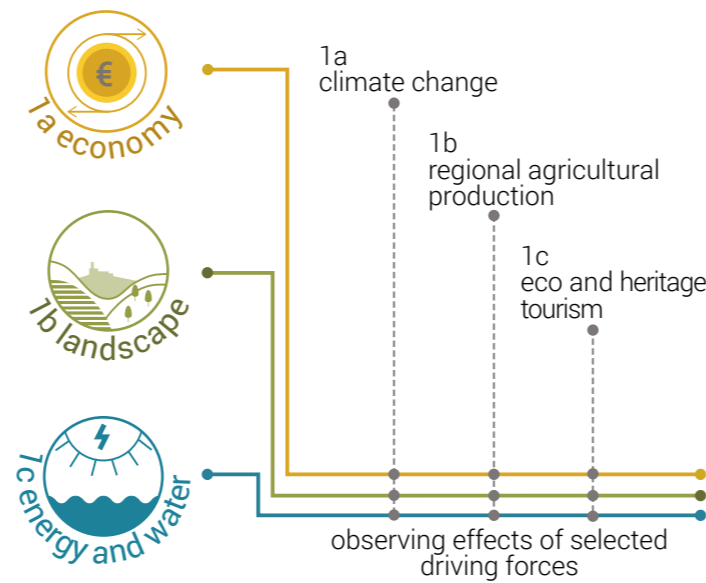
»Well thought out project with clear ideas and concepts.«

»Visual quality of the project is very good, the authors managed to convey the complexity of both analysis and proposal in a clear and attractive way.«

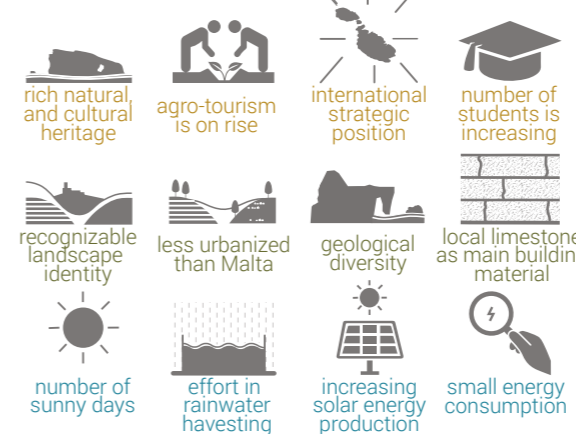
»The authors provided a very detailed landscape analysis, that shows in-depth knowledge of ecology as well as landscape design.«

»Really good work, based on the local landscape, adding a new dimension of reflection.«

Selected driving forces



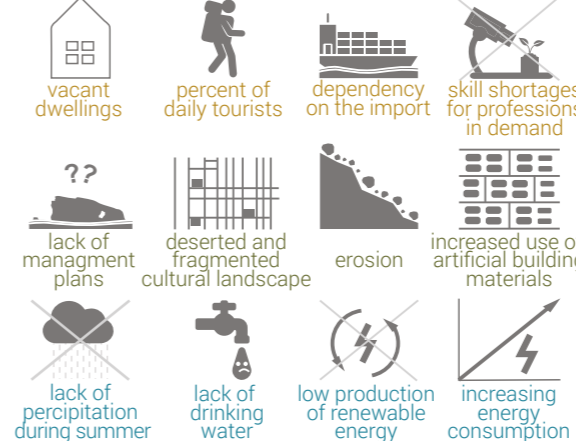
STRENGTHS



OPPORTUNITIES



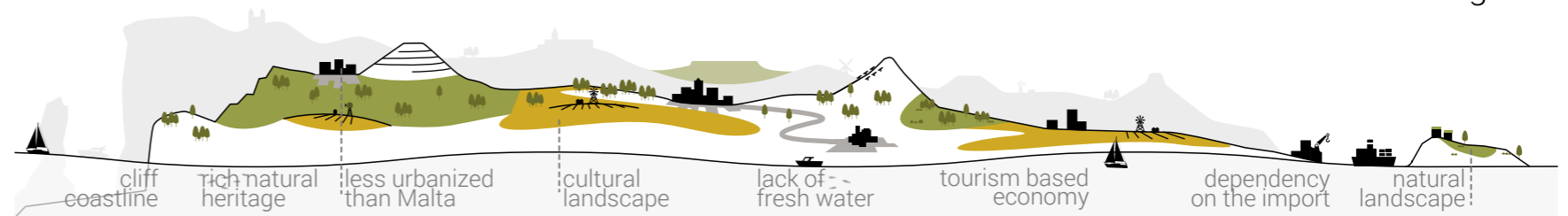
WEAKNESSES



THREATS

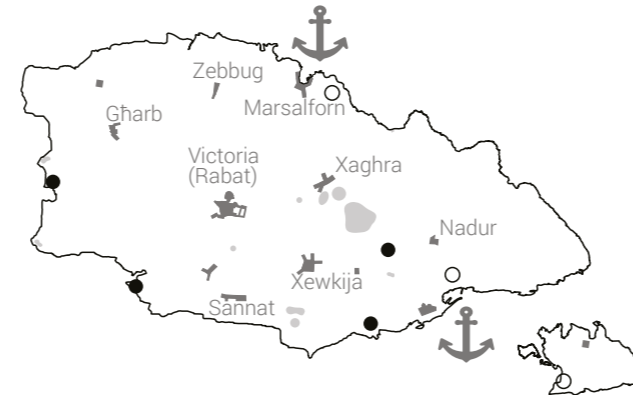


Section of existing landscape

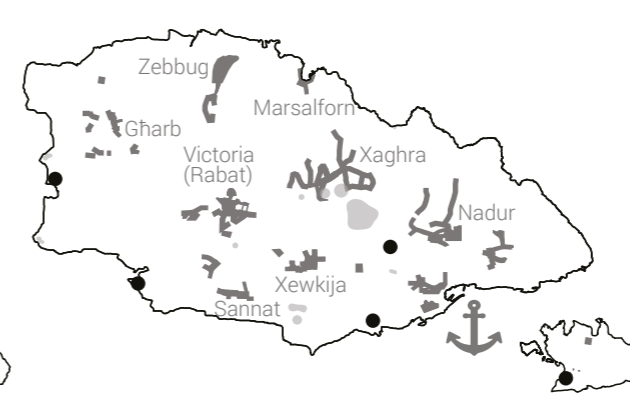


Historical development of Gozo

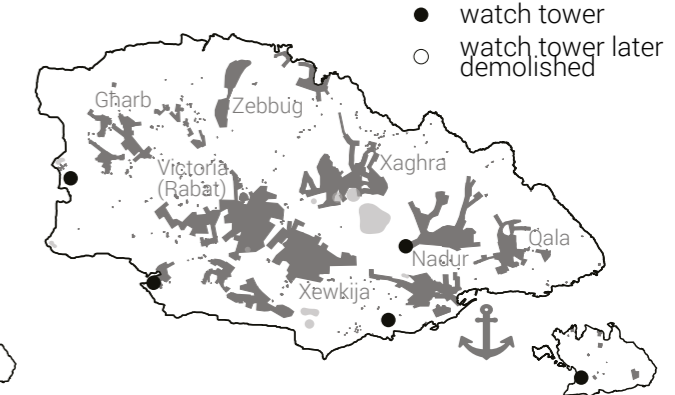
1803



1943

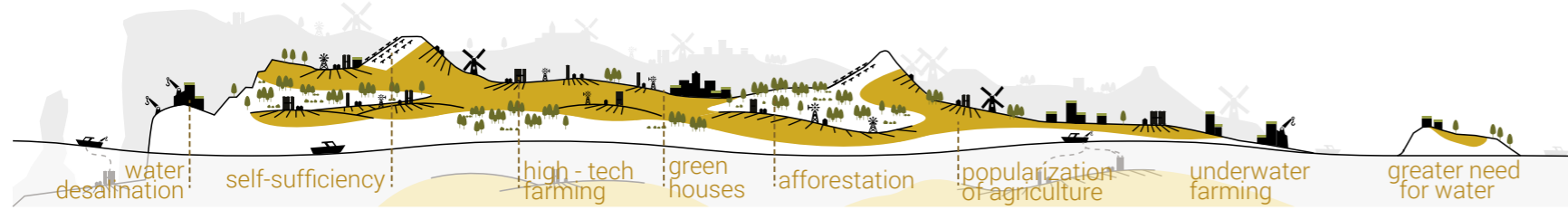


present situation

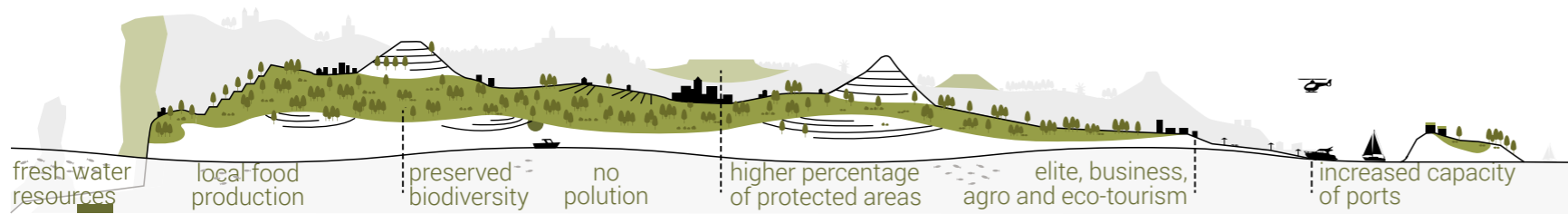


Scenarios

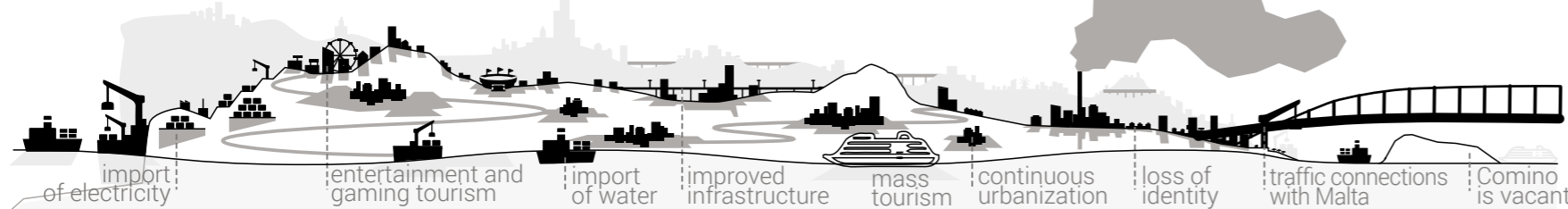
continuous cultivation of land
agricultural scenario
LET IT GROW



continuous trends in tourism and landscape preservation
elite eco tourism scenario
IN THE SKY WITH DIAMONDS

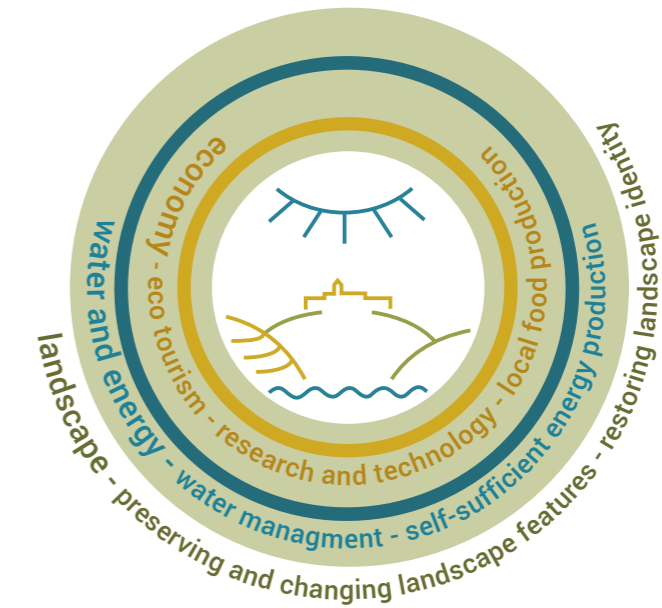


continuous urbanization, desertification and effects of climate change
industrial scenario
IMAGINE NO NATURE

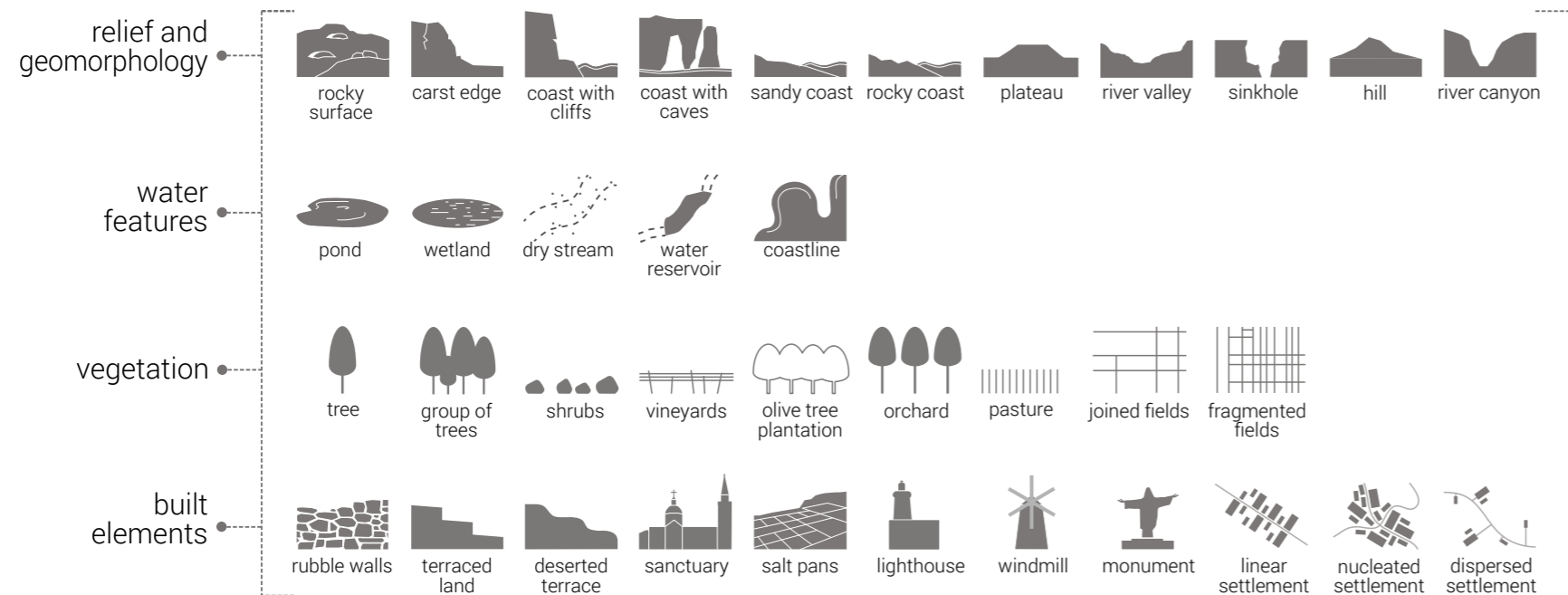


Vision

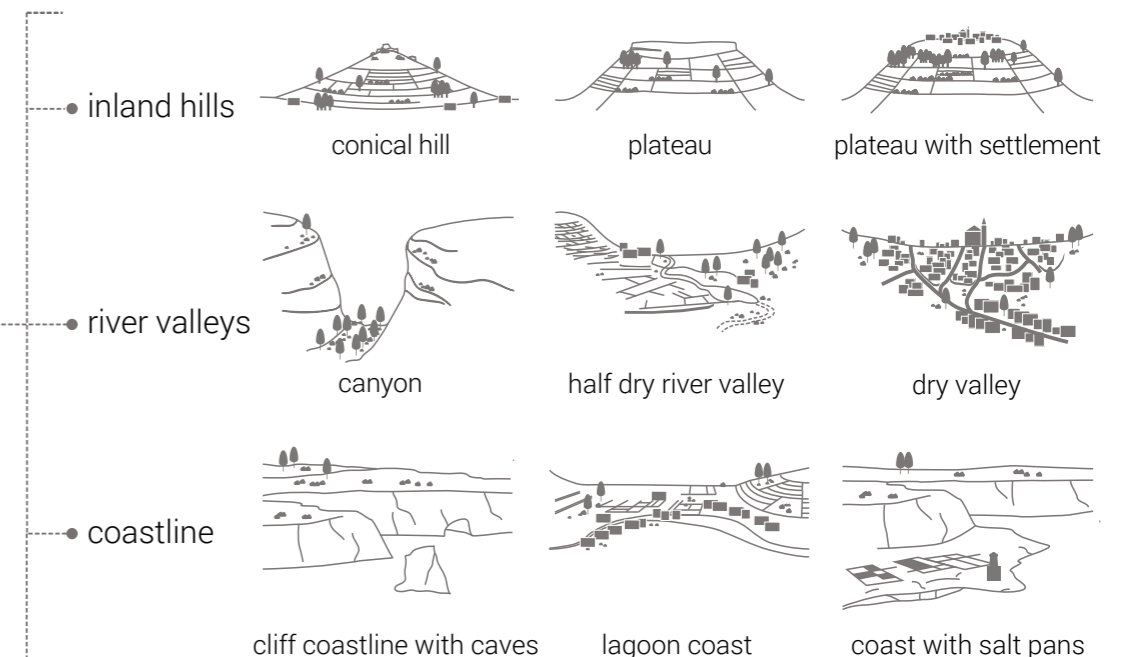
GOzo GOes GREEN



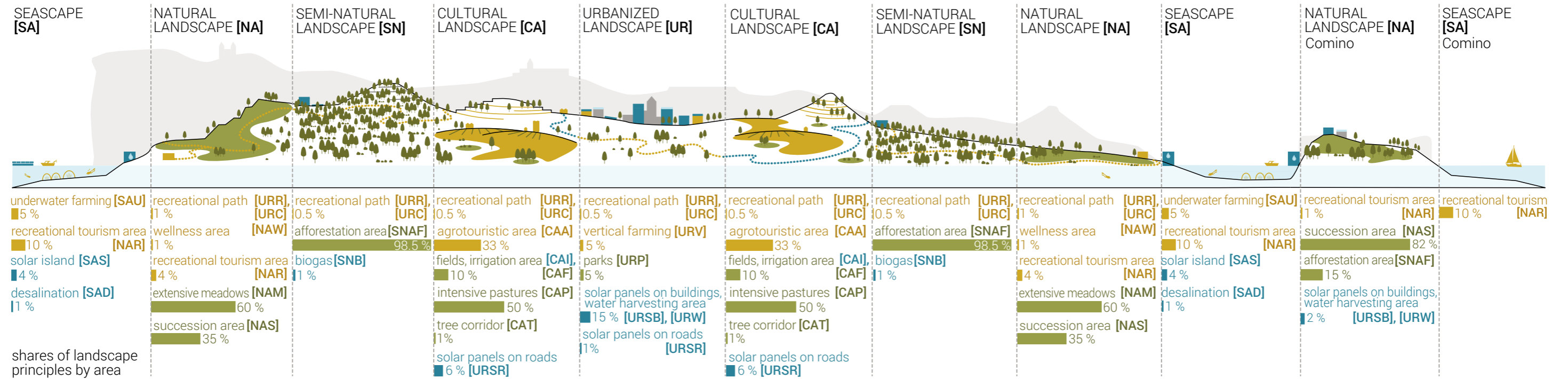
Landscape elements



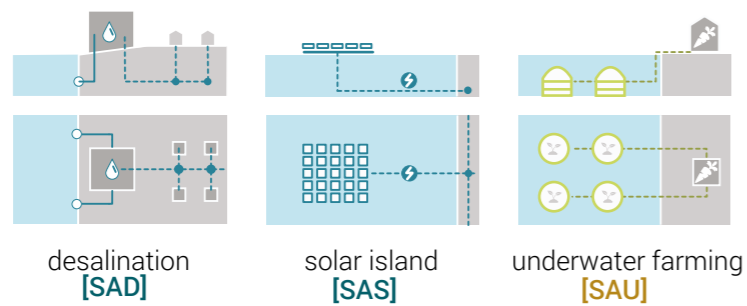
Existing landscape typology



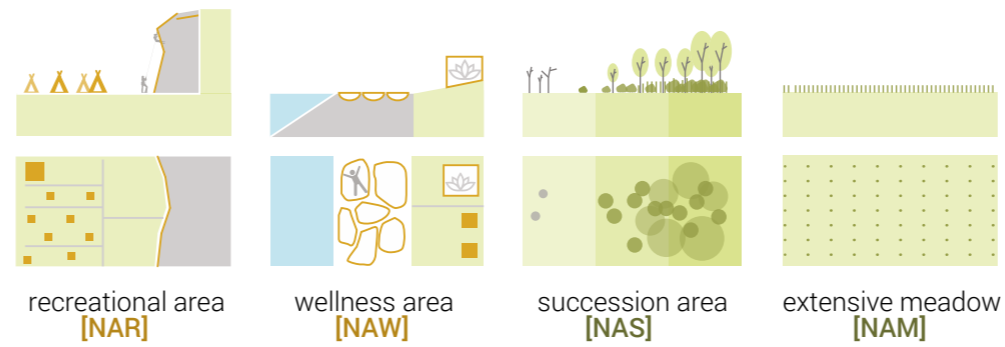
Implementing vision with landscape principles



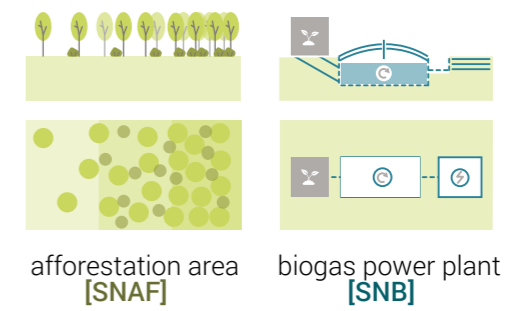
SEASCAPE [SA]



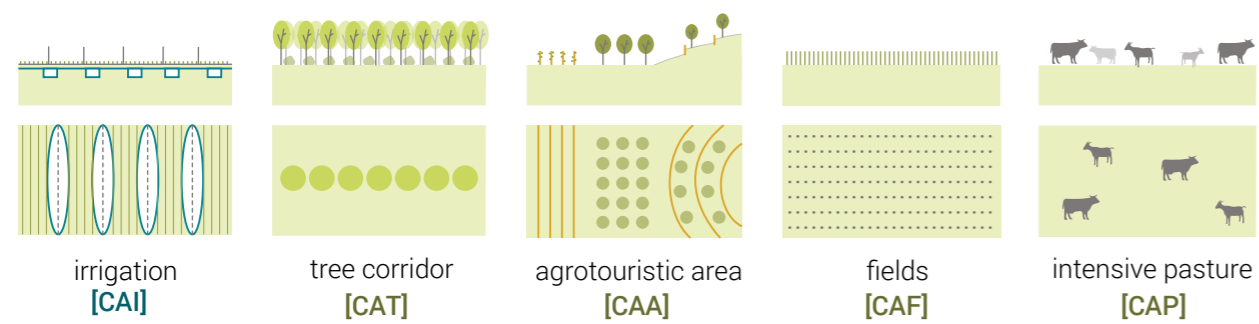
NATURAL LANDSCAPE [NA]



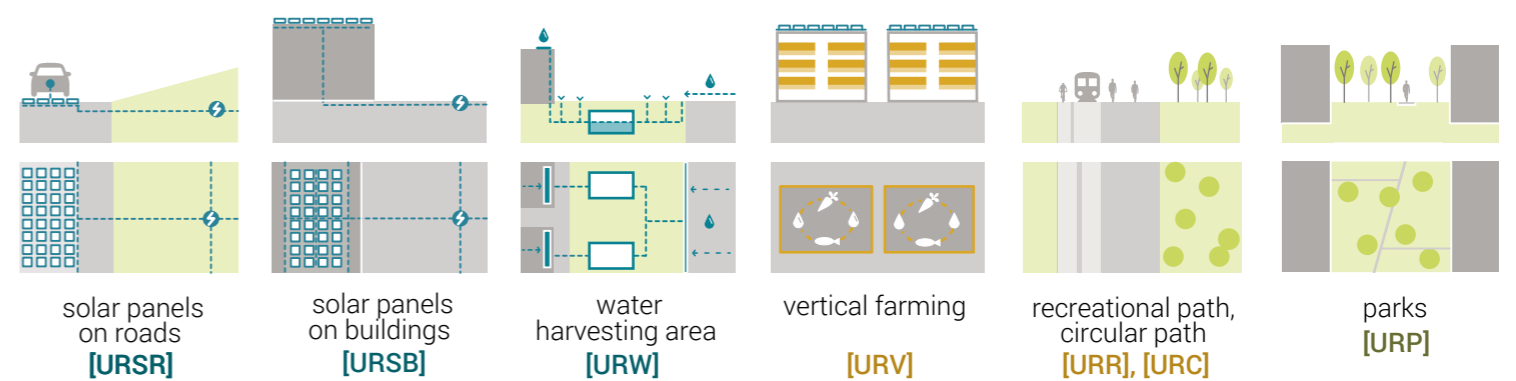
SEMI - NATURAL LANDSCAPE [SN]



CULTURAL LANDSCAPE [CA]

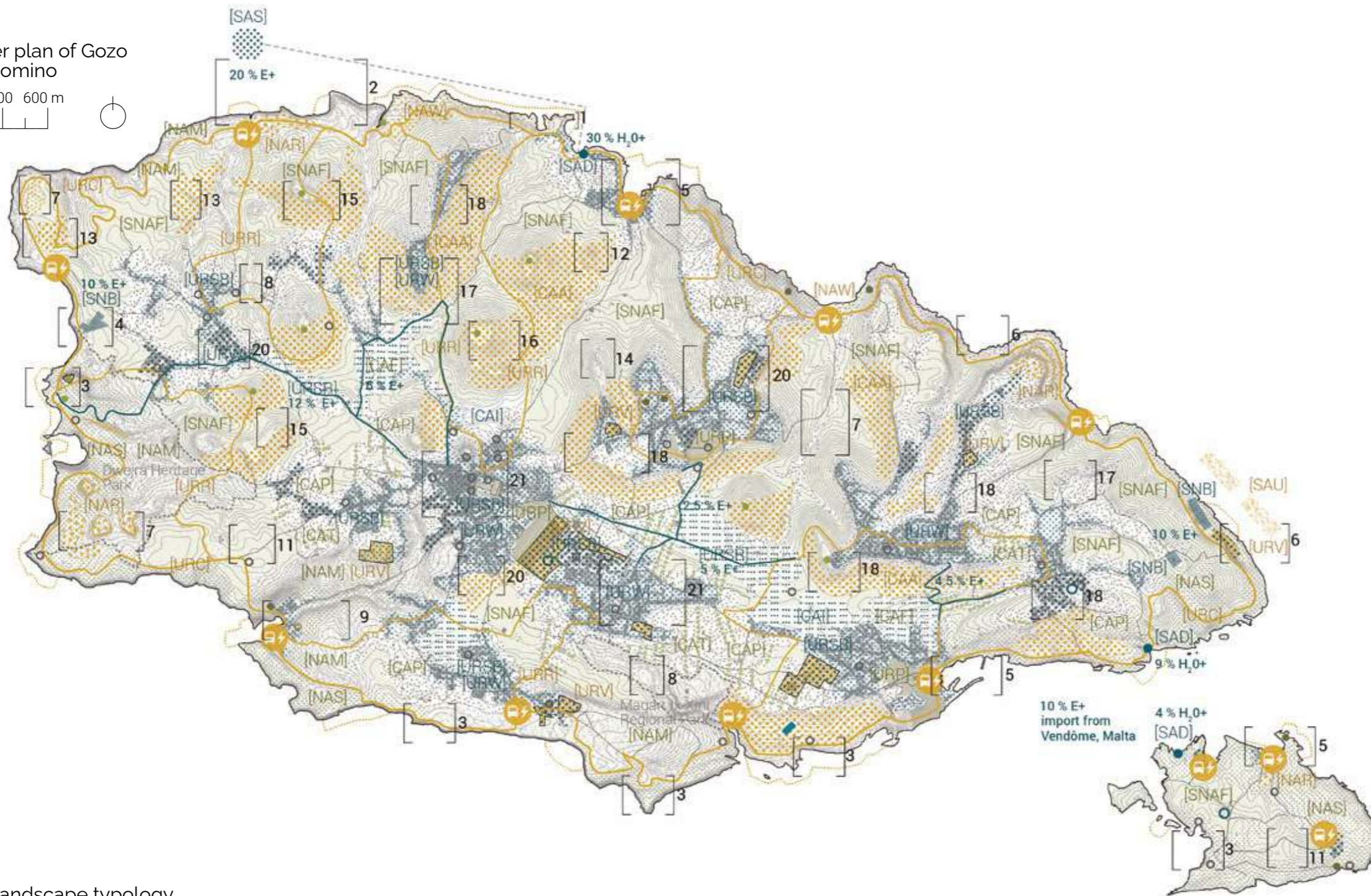


URBAN LANDSCAPE [UR]



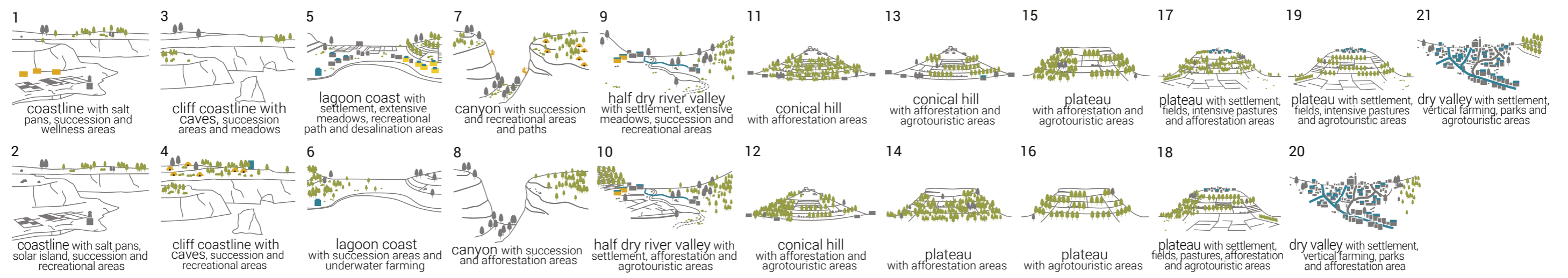
Master plan of Gozo and Comino

0 m 300 600 m



- [SAD] desalination area
- [SAS] solar island
- [SAU] underwater farming
- [NAR] recreational area
- [NAW] wellness area
- [NAS] succession area
- [NAM] extensive meadow
- [SNAF] afforestation area
- [SNB] biogas power plant
- [CAI] irrigation, [CAF] fields
- [CAT] tree corridor
- [CAA] agrotouristic area
- [CAP] intensive pasture
- [URSR] solar panels on roads
- [URSB] solar panels on buildings, [URW] water harvesting area
- [URV] vertical farming area
- [URR] recreational path, [URC] circular path
- [URP] parks
- energy distribution center
- biogas power plant
- sewage treatment plan - potential water reuse in agriculture
- climbing areas
- diving areas
- electrical bus station
- cultural heritage
- caves
- existing wellness complex
- natural heritage
- more than 70 % of buildings with PV installation
- more than 20 % of buildings with PV installation
- 10 % E+ shares of water production by sources
- 4 % H,0+ share of electricity production by sources
- 3 number of new landscape type

New landscape typology



RENOVATION OF GORENJSKA STREET, RADOVLJICA, SLOVENIA

Professional work, project for building permit application (= LP 3)



Supervisor: dr. Darja Marinček Prosenc (licensed landscape architect)

Client: Municipality Radovljica

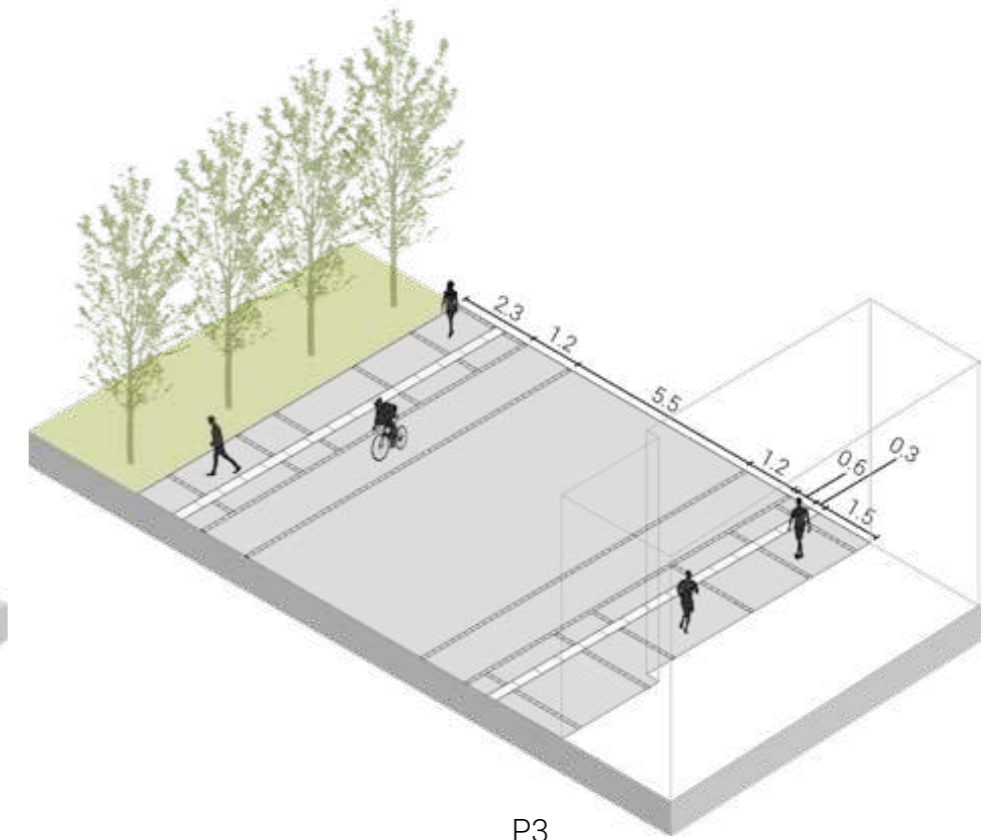
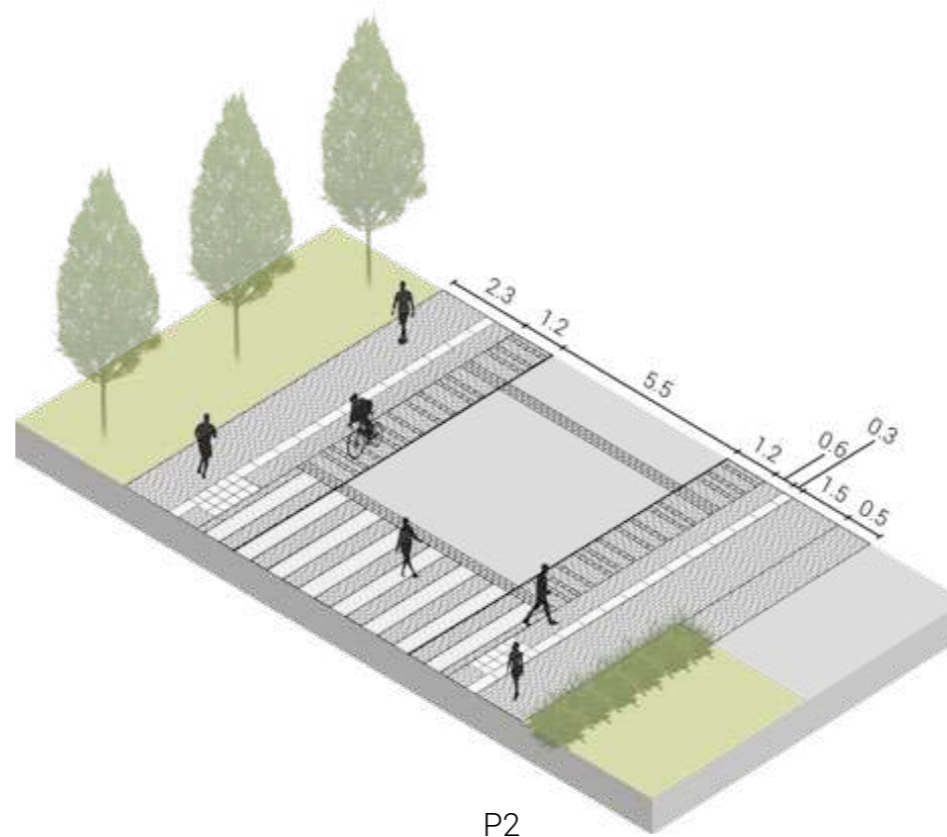
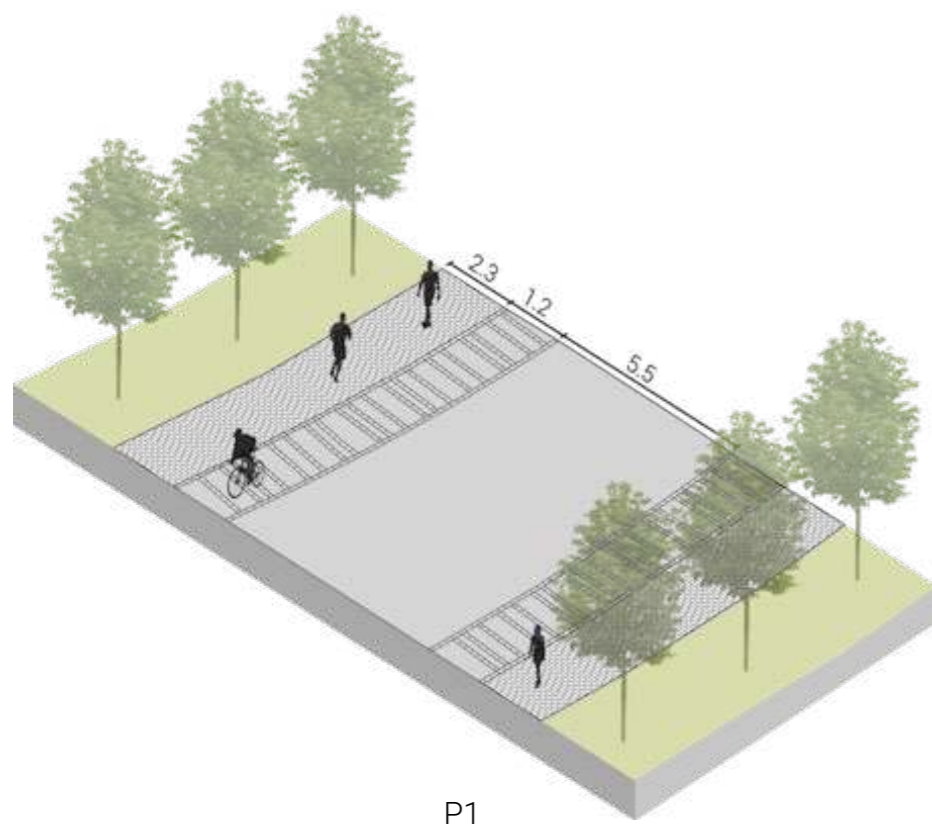
Year: 2018/2019

Tasks: landscape analysis (scale 1:500), plants identification, landscape plan for building permit application (scale 1:500), pavement design proposal (scale 1:100), presentation drawings

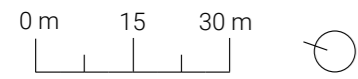
Gorenjska street is considered as the most important street in Radovljica, as it connects outskirts with the old town centre. The street is surrounded by characteristic and historic public buildings such as the library, bank, local court and museum. The street is also recognisable by its historic early 20th century villas. The main purposes of the renovation proposal were to emphasise the historical background of the street and to support local considerations of Radovljica as a garden city. These goals were achieved by adding new program components to the street, by choosing relatively simple pavement pattern design, and by redesigning surrounding pocket parks and green areas with regards to local needs. Heavier motor traffic is redirected to the bypass. Local car traffic is slowed down prioritizing pedestrian and cycling traffic.



Proposed pavement pattern of the street

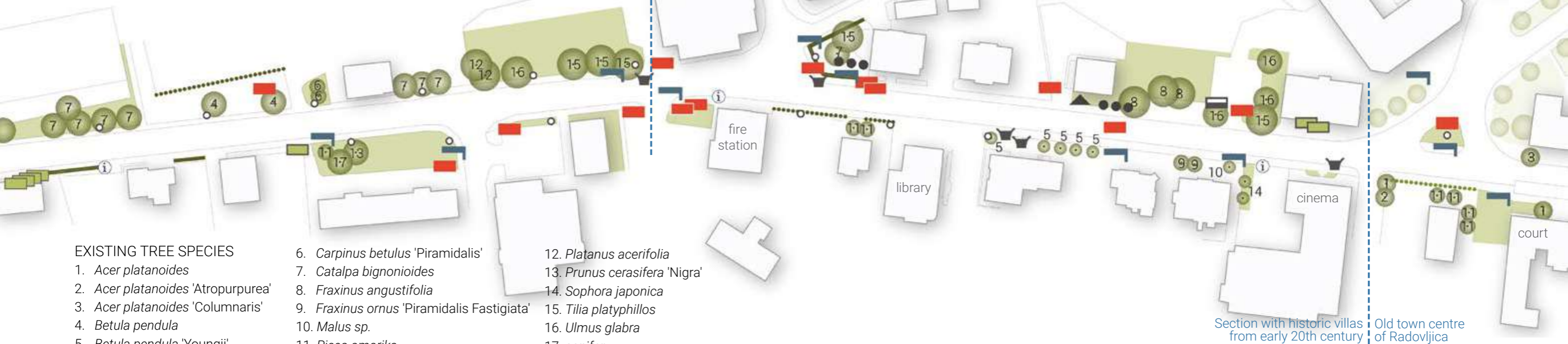


Part of the existing streetscape analysis



Section with modernist blocks of flats | Section with historic villas from early 20th century

- advertising elements
- traffic boards
- ⓘ info-boards
- flagpole
- ♻️ bin
- ▲ statue
- flowerpot
- bench
- green areas
- higher hedgerow
- lower hedgerow
- hedge

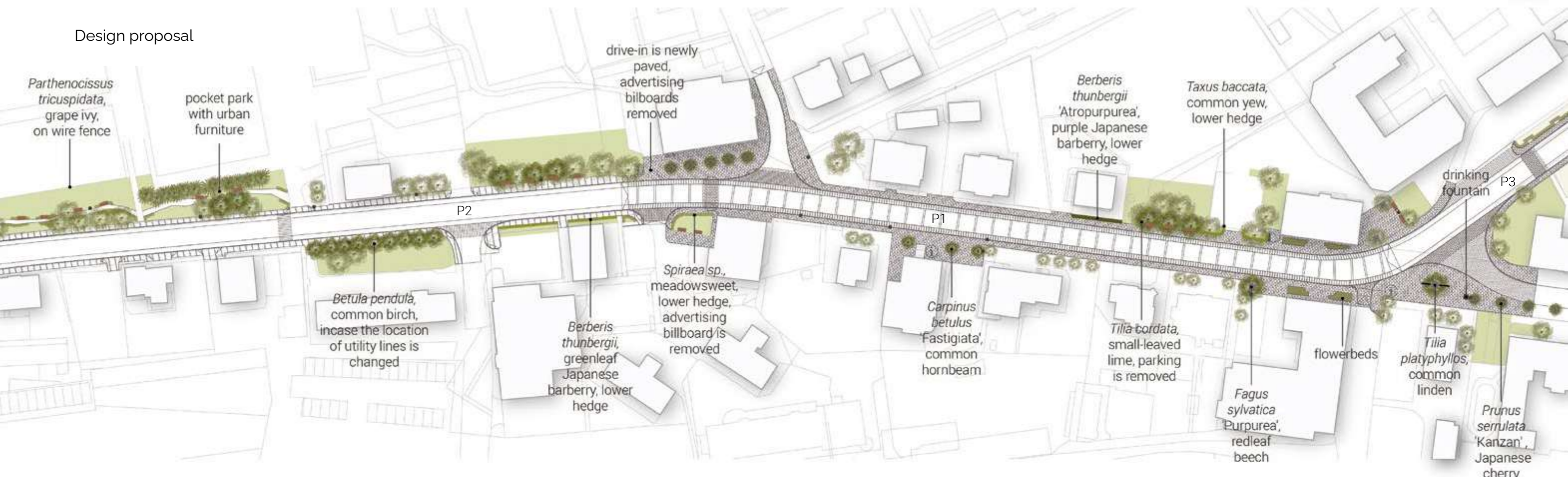


EXISTING TREE SPECIES

- | | | |
|---|---|--------------------------------------|
| 1. <i>Acer platanoides</i> | 6. <i>Carpinus betulus</i> 'Piramidalis' | 12. <i>Platanus acerifolia</i> |
| 2. <i>Acer platanoides</i> 'Atropurpurea' | 7. <i>Catalpa bignonioides</i> | 13. <i>Prunus cerasifera</i> 'Nigra' |
| 3. <i>Acer platanoides</i> 'Columnaris' | 8. <i>Fraxinus angustifolia</i> | 14. <i>Sophora japonica</i> |
| 4. <i>Betula pendula</i> | 9. <i>Fraxinus ornus</i> 'Piramidalis Fastigiata' | 15. <i>Tilia platyphyllos</i> |
| 5. <i>Betula pendula</i> 'Youngii' | 10. <i>Malus</i> sp. | 16. <i>Ulmus glabra</i> |
| | 11. <i>Picea omorika</i> | 17. conifer |

Section with historic villas from early 20th century | Old town centre of Radovljica

Design proposal



GARDEN DESIGN, BOROVNICA, SLOVENIA

Professional work, conceptual garden design (≈ LP 1)

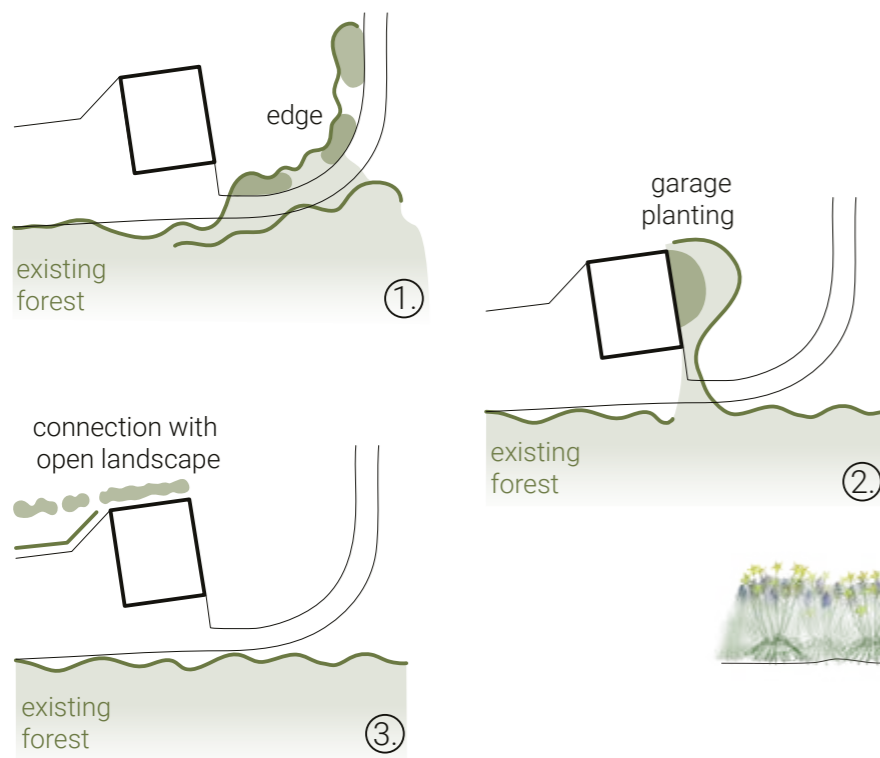
Year: 2020

Tasks: landscape design and planting plan (scale 1:200), presentation drawings

Garden design derives from the location in the landscape. It is situated in Slovenian rural area, in the open landscape, next to the forest. The site is mostly shady and wet, because of the nearby creek. Planting concept is, due to the location in open landscape, designed with regards to the existing landscape context. It is designed in a more organic, natural manner in order to persist harmonious relation between the garden and the landscape. Location of the plants is also determined in a way, which persists open views. On the other hand, positioning of plants also respects the need for privacy.

The most important criteria for the selection of plants was size of the plants. It is followed by the shape of the plant and texture. Plants with mostly natural habitus and texture were selected as a response to the existing indigenous vegetation in the vicinity. In order to create smooth transition between garden and forest, plants with less intense colour accents were chosen. Planting assortment is based on flowering shrubs, magnolias, ferns, ornamental grasses and other indigenous perennials, found in the local forest edge. Selected plants require minimum maintenance.

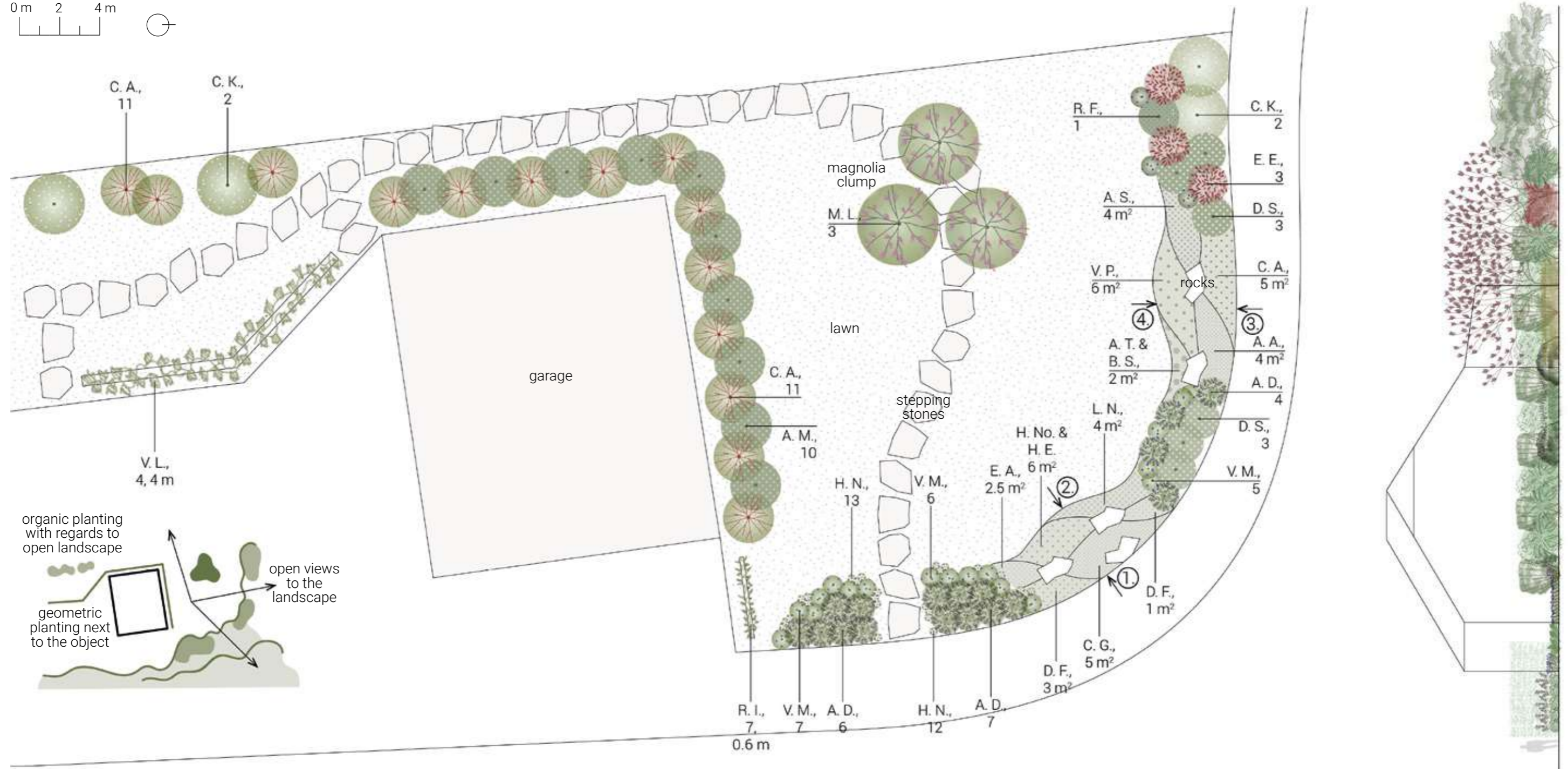
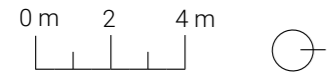
Landscape concept



Combinations of perennials



Planting plan, variant I



ABBREVIATIONS FOR PLANTS

SHRUBS

- A. M (Latin name), 1 (number of plants) - *Aronia melanocarpa* (Latin name)
- C. A., *Cornus alba* 'Sibirica'
- C. K., *Cornus kousa*
- D. S., *Deutzia scabra* 'Candidissima'
- E. E., *Euonymus europaeus* 'Red cascade'
- M. L., *Magnolia liliflora* 'Nigra'
- R. F., *Rubus fruticosus* 'Thornfree'

PERENNIALS

- A. A., *Asphodelus albus*
- A. D., *Aruncus dioicus*
- A. S., *Anemone sylvestris*
- A. T., *Amsonia tabernaemontana*
- B. S., *Bupthalmum salicifolium*
- C. Ac., *Calamagrostis x acutiflora* 'Karl foerster'

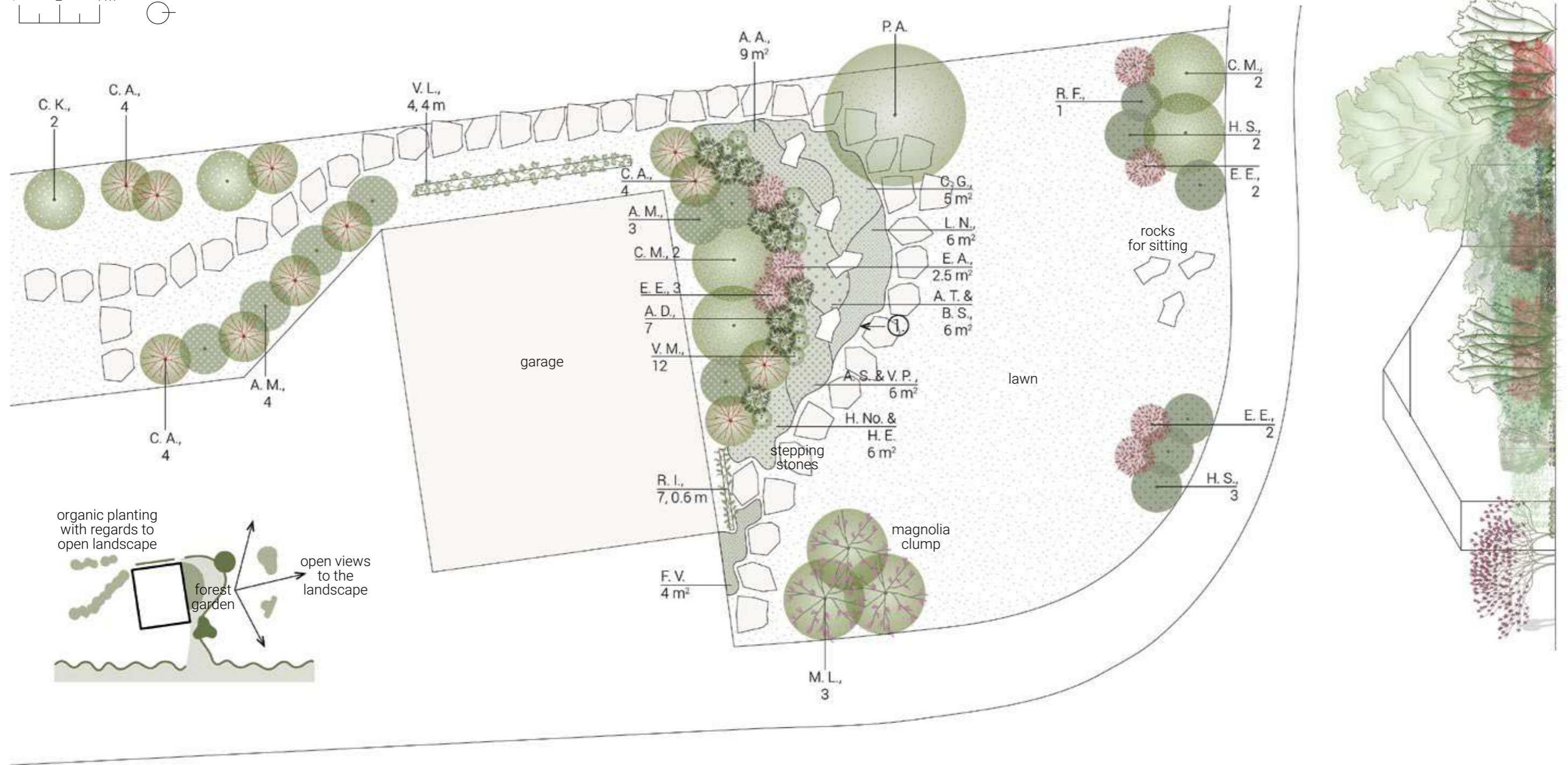
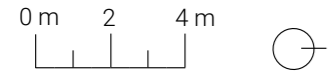
- C. G., *Campanula glomerata*
- D. F., *Dryopteris filix mas*
- E. A., *Euphorbia amygdaloides*
- H. N., *Helleborus niger*
- H. No., *Hepatica nobilis*
- H. E., *Hacquetia epipactis*

- L. N., *Luzula nivea*
- V. M., *Vinca major*
- V. P., *Veronica prostrata*

CLIMBERS

- R. I., *Rubus idaeus*
- V. L., *Vitis labrusca*

Planting plan, variant II



ABBREVIATIONS FOR PLANTS

TREE

P. A., *Prunus avium* 'Plena' (latin name),
1 (number of plants)

SHRUBS

A. M., *Aronia melanocarpa*
C. A., *Cornus alba* 'Sibirica'
C. K., *Cornus kousa*
C. M., *Crataegus monogyna* 'Stricta'
D. S., *Deutzia scabra* 'Candidissima'

E. E., *Euonymus europaeus* 'Red cascade'
H. S., *Hibiscus syriacus* 'Oiseau Bleu'
M. L., *Magnolia liliflora* 'Nigra'
R. F., *Rubus fruticosus* 'Thornfree'

PERENNIALS

A. A., *Asphodelus albus*

A. D., *Aruncus dioicus*
A. S., *Anemone sylvestris*
A. T., *Amsonia tabernaemontana*
B. S., *Bupthalmum salicifolium*
C. Ac., *Calamagrostis x acutiflora* 'Karl foerster'
C. G., *Campanula glomerata*

D. F., *Dryopteris filix mas*
E. A., *Euphorbia amygdaloides*
F. V., *Fragaria vesca*
H. N., *Helleborus niger*
H. No., *Hepatica nobilis*
H. E., *Hacquetia epipactis*

L. N., *Luzula nivea*
V. M., *Vinca major*
V. P., *Veronica prostrata*

CLIMBERS

R. I., *Rubus idaeus*
V. L., *Vitis labrusca*



Variant 1 in early spring



Variant 2 in early spring

VISUAL IMPACT OF BUSINESS ZONES IN LJUBLJANA URBAN REGION, SLOVENIA

Master's thesis

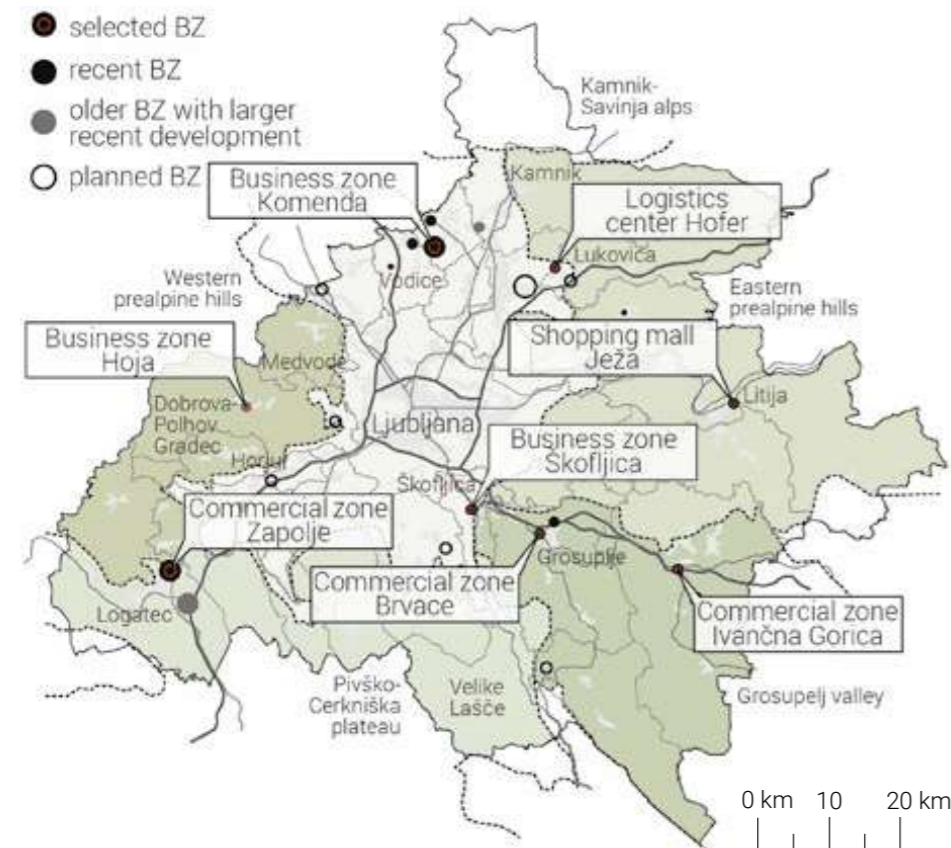
Year: 2019

Mentor: prof. dr. Mojca Golobič

Full-length document: [here](#)

In the master thesis, we evaluated the scale and characteristics of the contemporary business zones (BZ) visual impact. Our main goal was to define, which BZ have the largest impact on landscape visual quality in Ljubljana urban region (LUR). We were also researching, how the public perceives contemporary BZ. In the empirical part of the master thesis, we descriptively evaluated the visual impact of the selected zones. After identification and selection of the zones, we prepared visibility analysis, which were used as a basis for the descriptive landscape character evaluation. Visual impact assessments of business zones were done by selecting multiple interrelated criteria. Additionally, we also implemented an online image-based survey about the visual preferences of the zones. Results of both methodological approaches acknowledge BZ as a visually disturbing element in the landscape. Consequently, we suggested possible measures for reducing their negative visual impact in the future.

Selection of the zones

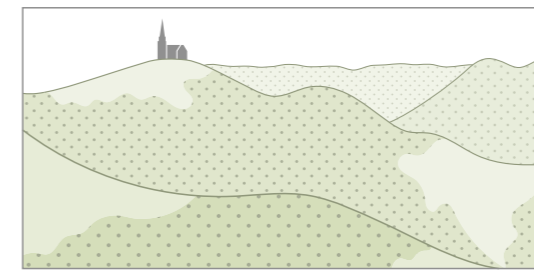


OBJECTIVIST OR PHYSICAL PARADIGM

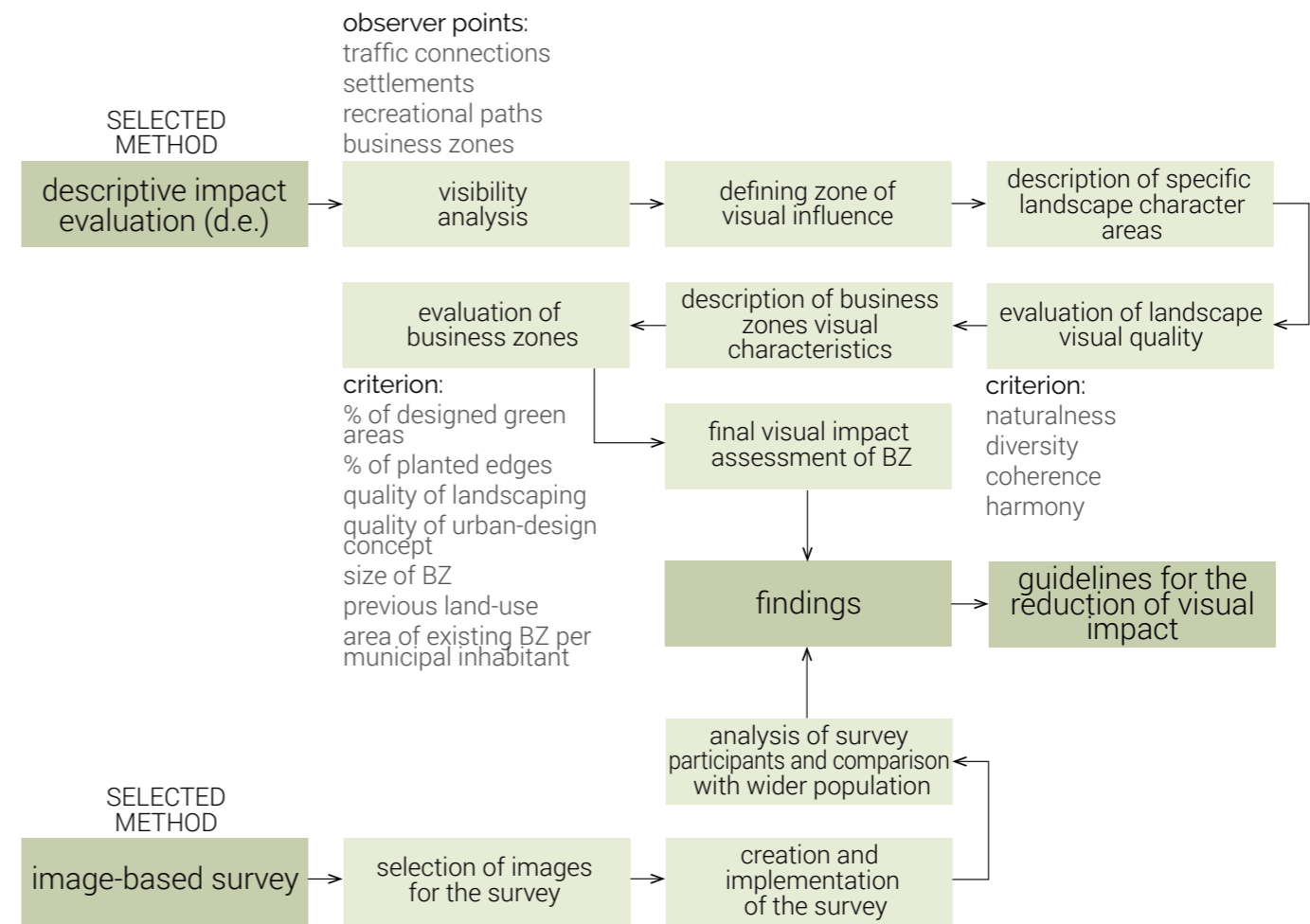


landscape aesthetics is judged in physical world, in front of one's eyes

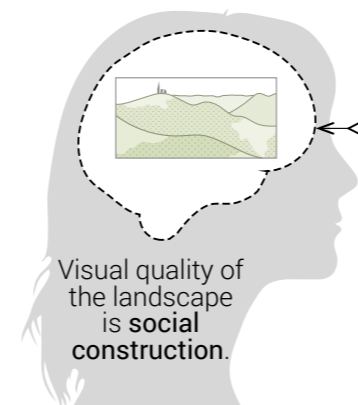
Visual quality of the landscape is **intrinsic physical attribute**.



Theoretical and methodological framework of the thesis

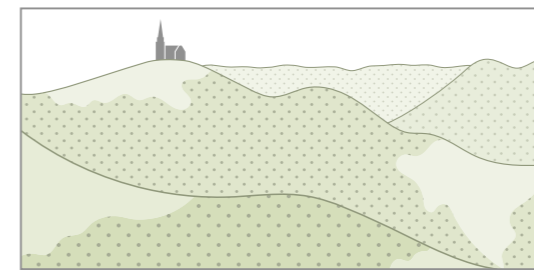


SUBJECTIVIST OR PSYCHOLOGICAL PARADIGM

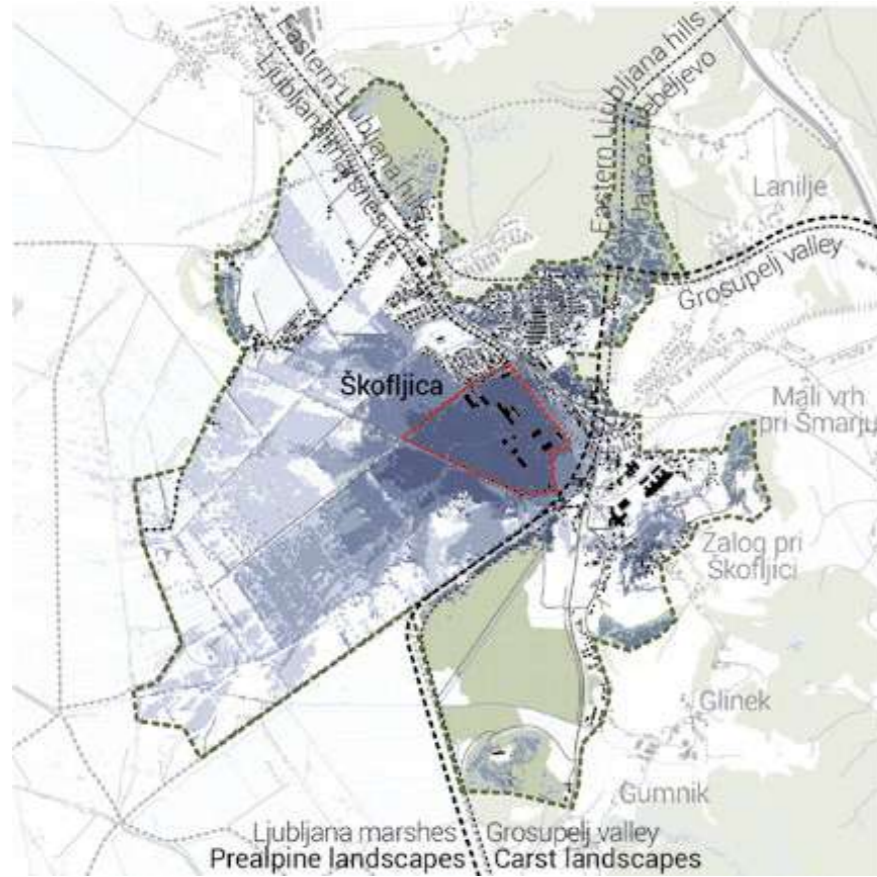


Visual quality of the landscape is **social construction**.

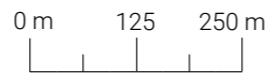
landscape aesthetics is judged from interpretation by the mind, behind one's eyes



Zone of visual influence



- 1: very high visibility, visible more than 6000x
- 2: high visibility
- 3: medium visibility
- 4: low visibility
- 5: very low visibility, visible less than 100x
- zone of visual influence
- national landscape character areas



Landscape characteristics



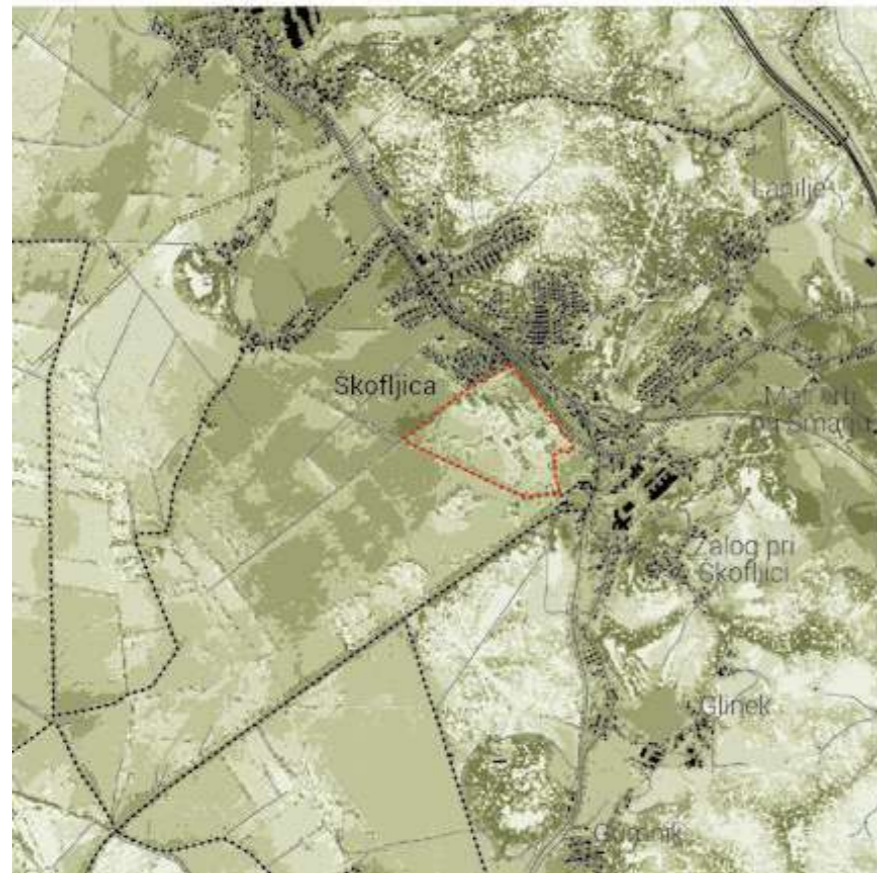
land-use



hydrology and topography

- forest
- pastures
- fields
- marshes, water areas
- urbanized
- hydrology
- business zone
- project landscape character areas

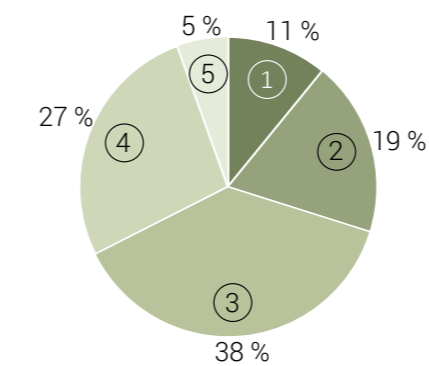
Visibility analysis from settlements, important traffic connections and recreational paths



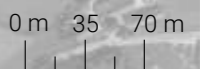
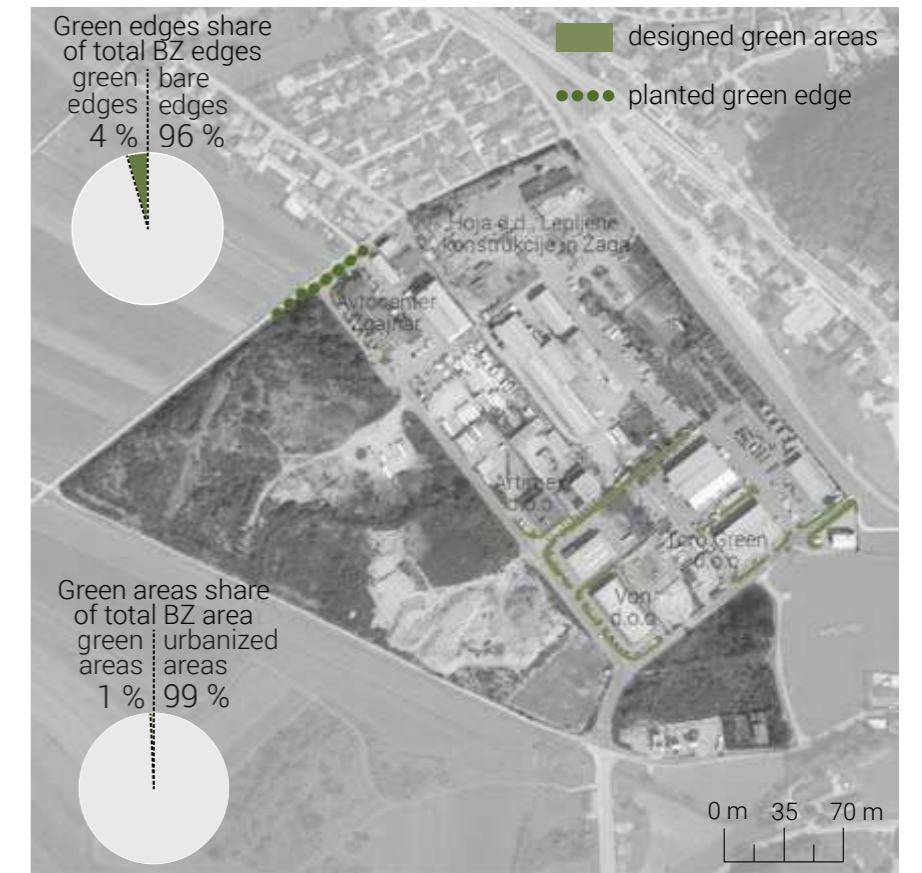
- 1: very high visibility, visible more than 6000x
- 2: high visibility
- 3: medium visibility
- 4: low visibility
- 5: very low visibility, visible less than 100x



Share of BZ area by visibility score



Share of designed green areas and green edges



Descriptive impact evaluation results

BZ Hoja, Polhov Gradec	BZ Komenda	LC Hofer, Lukovica	BZ Škofljica	SC Ježa, Litija	ICZ Zapolje, Logatec	BZ Brvace, Grosuplje	BZ Ivančna Gorica	name of the zone
2	4	4	3	2	4	1	2	final visibility assessment
2	2	2	2	4	3	3	3	naturalness
2	3	2	1	3	3	3	3	diversity
2	2	2	2	3	2	3	4	coherence
2	3	2	2	3	2	3	4	harmony
2	3	2	2	3	2	3	4	final landscape visual quality assessment
1	1	3	1	1	1	1	3	% of green areas
1	4	4	1	2	3	2	1	% of planted edges
1	2	3	1	2	1	2	1	quality of landscaping
1	3	1	1	1	1	1	1	quality of urban-design
5	1	5	5	5	1	5	5	size of BZ
5	2	1	3	3	2	1	3	previous land-use
5	1	3	5	1	1	1	1	area of BZ/ inhabitant
2	2	3	2	3	1	2	1	final BZ assessment

BZ Hoja, Polhov Gradec	BZ Komenda	LC Hofer, Lukovica	BZ Škofljica	SC Ježa, Litija	ICZ Zapolje, Logatec	BZ Brvace, Grosuplje	BZ Ivančna Gorica	final impact assessment
2	2	3	2	3	2	2	2	final impact assessment

low visibility	low visual quality	low visual disturbance
moderate visibility	moderate visual quality	moderate visual disturbance
high visibility	high visual quality	high visual disturbance
very high visibility	very high visual quality	very high visual disturbance

moderate visual impact	high visual impact
------------------------	--------------------

Page of image-based survey

1a) Have you ever visited Business zone Škofljica?
 yes
 no

1b) Do you perceive Business zone (BZ) Škofljica as visually disturbing element in the landscape? The zone area contains corporate and business buildings, storehouses, open storages, parking lots, traffic connections, roundabouts, construction sites etc.

The photographs below can be of assistance. The business zone is marked with a red dashed line on the aerial photo on the lower right photo. Assess on the scale from 1 to 5, 1 means, that business zone is a visually very disturbing element in the landscape and 5, that business zone is not at all visually disturbing.

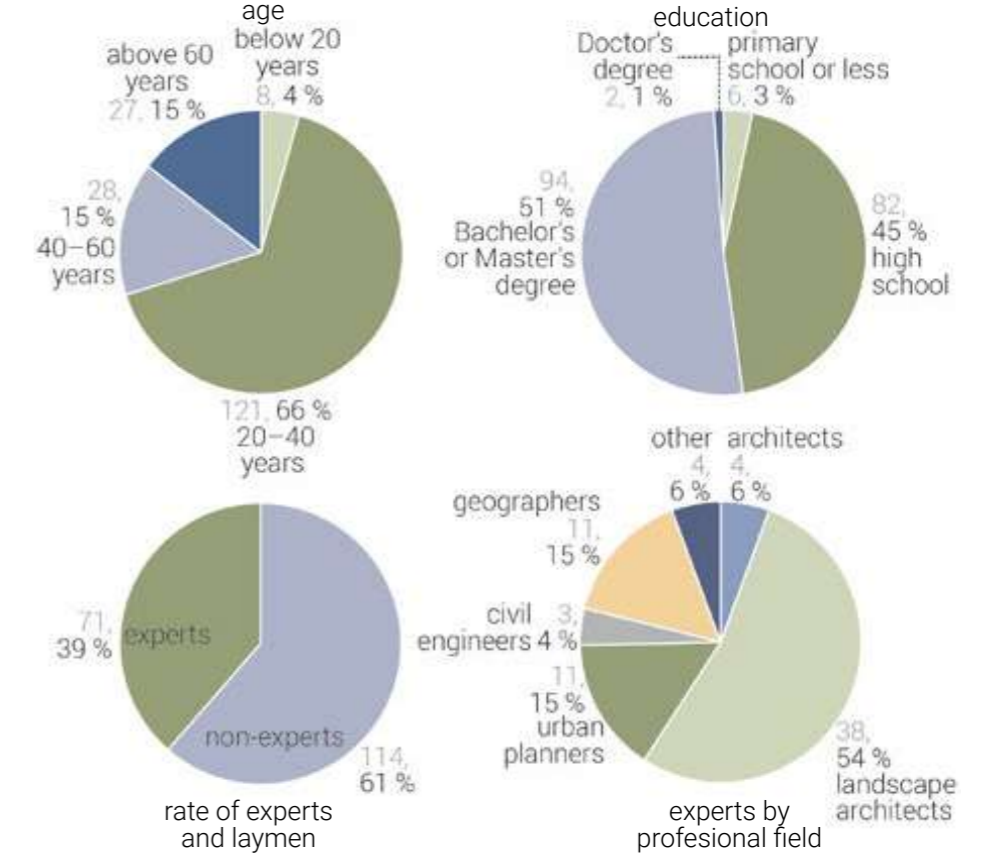
BZ is visually very disturbing element in the landscape: 1 ○ 2 ○ 3 ○ 4 ○ 5 ○

BZ is visually not at all disturbing element in the landscape

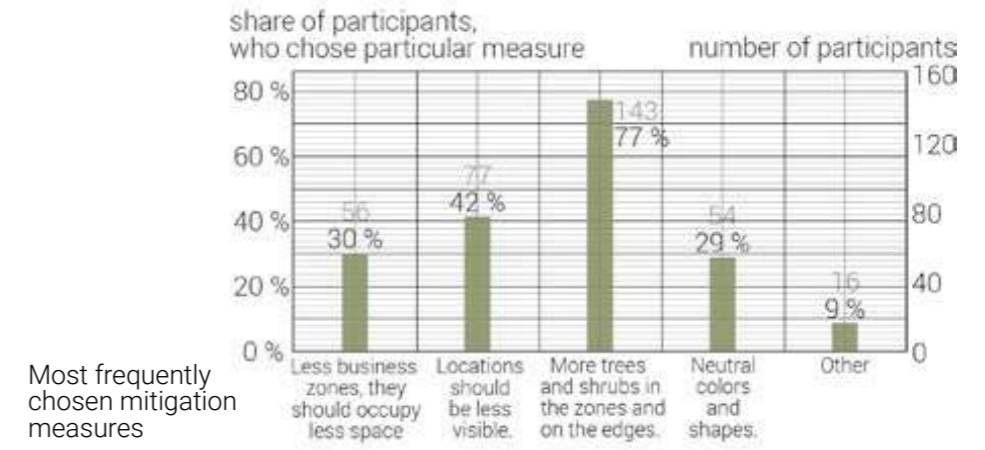
1c) If you wish, you can explain your answer.

Analysis of survey participants

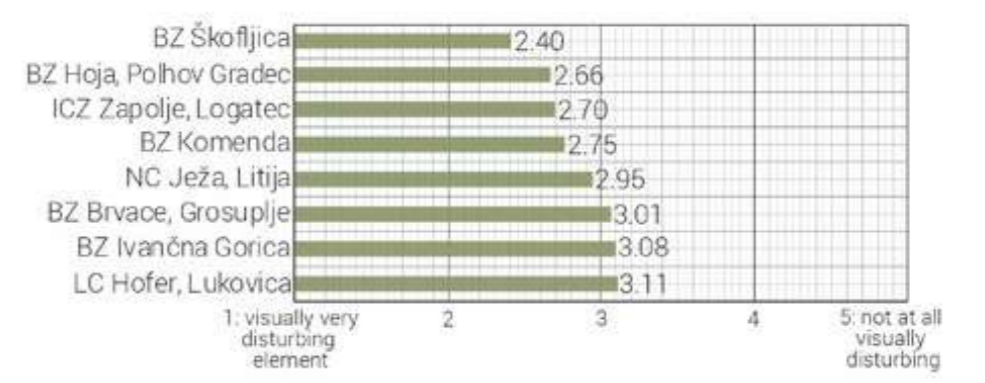
185 answers and 335 explanations collected.



Survey results



Average mark of BZ visual appearances





2.40 high impact survey d.e. Business zone Škofljica



2.66 high impact survey d.e. Business zone Hoja



2.75 high impact survey d.e. Business zone Komenda



2.70 high impact survey d.e. Industrial zone Zapolje



2.95 moderate impact survey d.e. Shopping centre Ježa



3.01 high impact survey d.e. Business zone Brvace

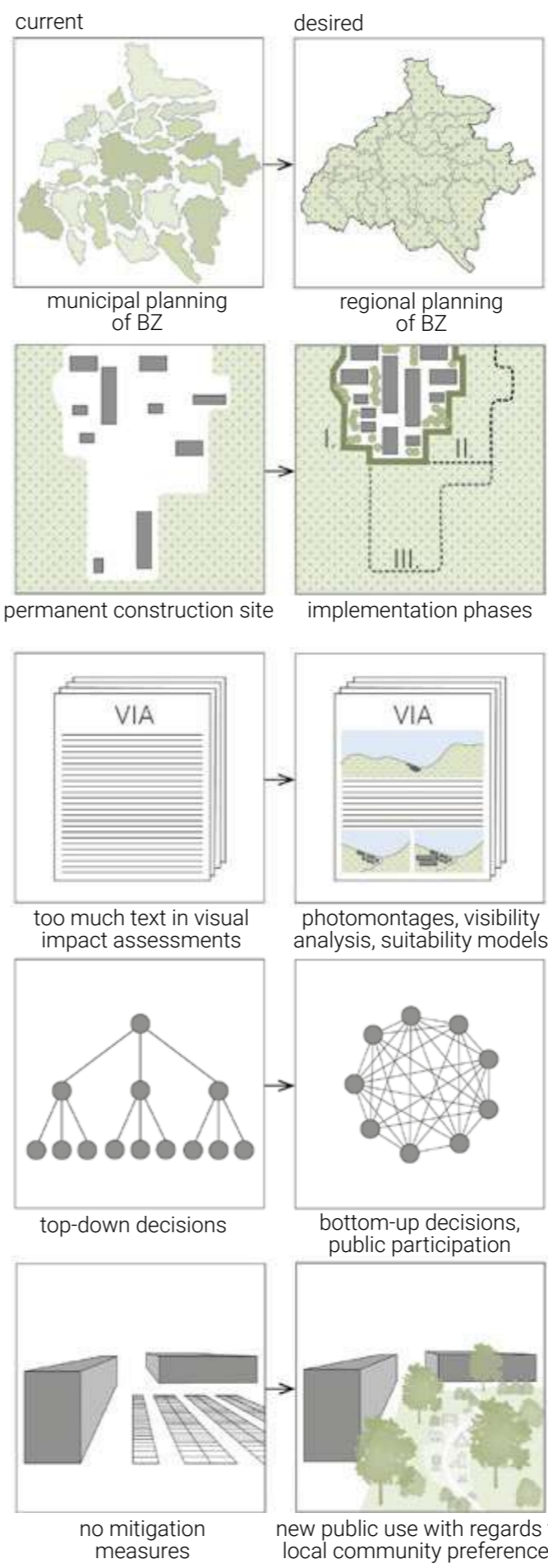


3.11 high impact survey d.e. Logistics centre Hofer

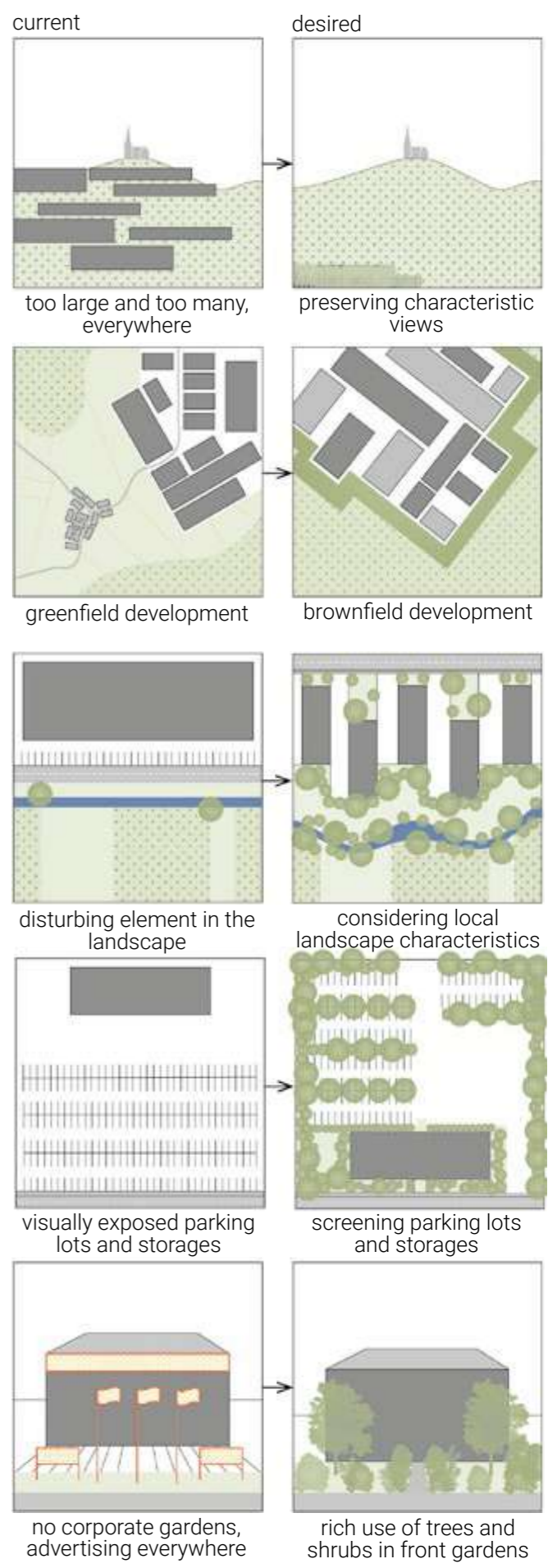


3.08 high impact survey d.e. Business zone Ivančna Gorica

Spatial planning system guidelines



Urban design and landscaping guidelines



VALÉRIA TÉR, BUDAPEST, HUNGARY

Student project

Study year: 2016/2017, the second year of MSc

Mentor: prof. dr. Eszter Bakay Karlóciné

Coworker: Johannes Molodet

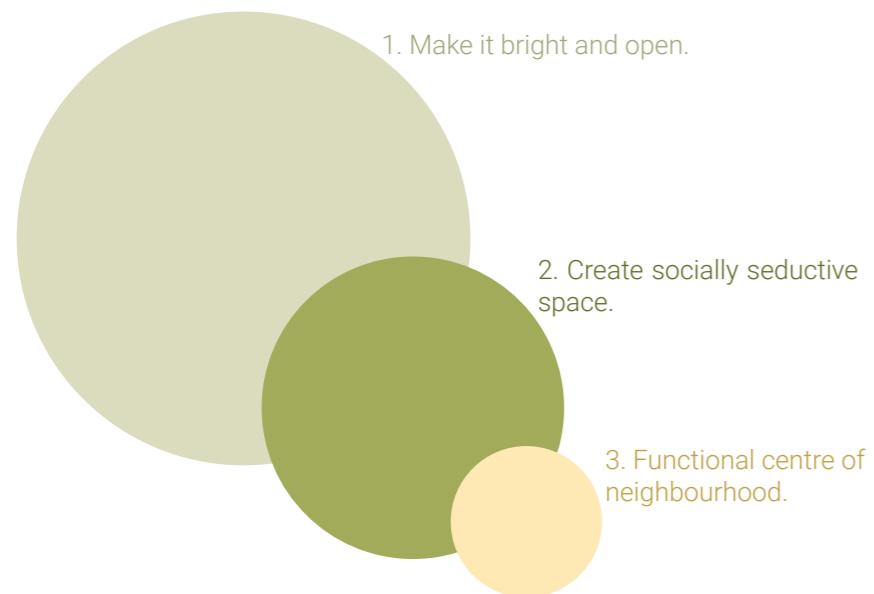
Tasks: landscape analysis, landscape design, master plan (scale 1:100), visualisations, schemes

Valéria tér (square) is nowadays underused open space, that functions mainly as parking. It is located in Josef Atilla neighbourhood in Budapest, Hungary. The neighbourhood was established during the modernist period with Valeria square considered as central and most important public space in the area. The main purpose of our design was to improve the current lighting conditions and to create socially seductive and multifunctional space. Our formalistic approach follows the existing shape of the square and takes into the account existing pedestrian flow.

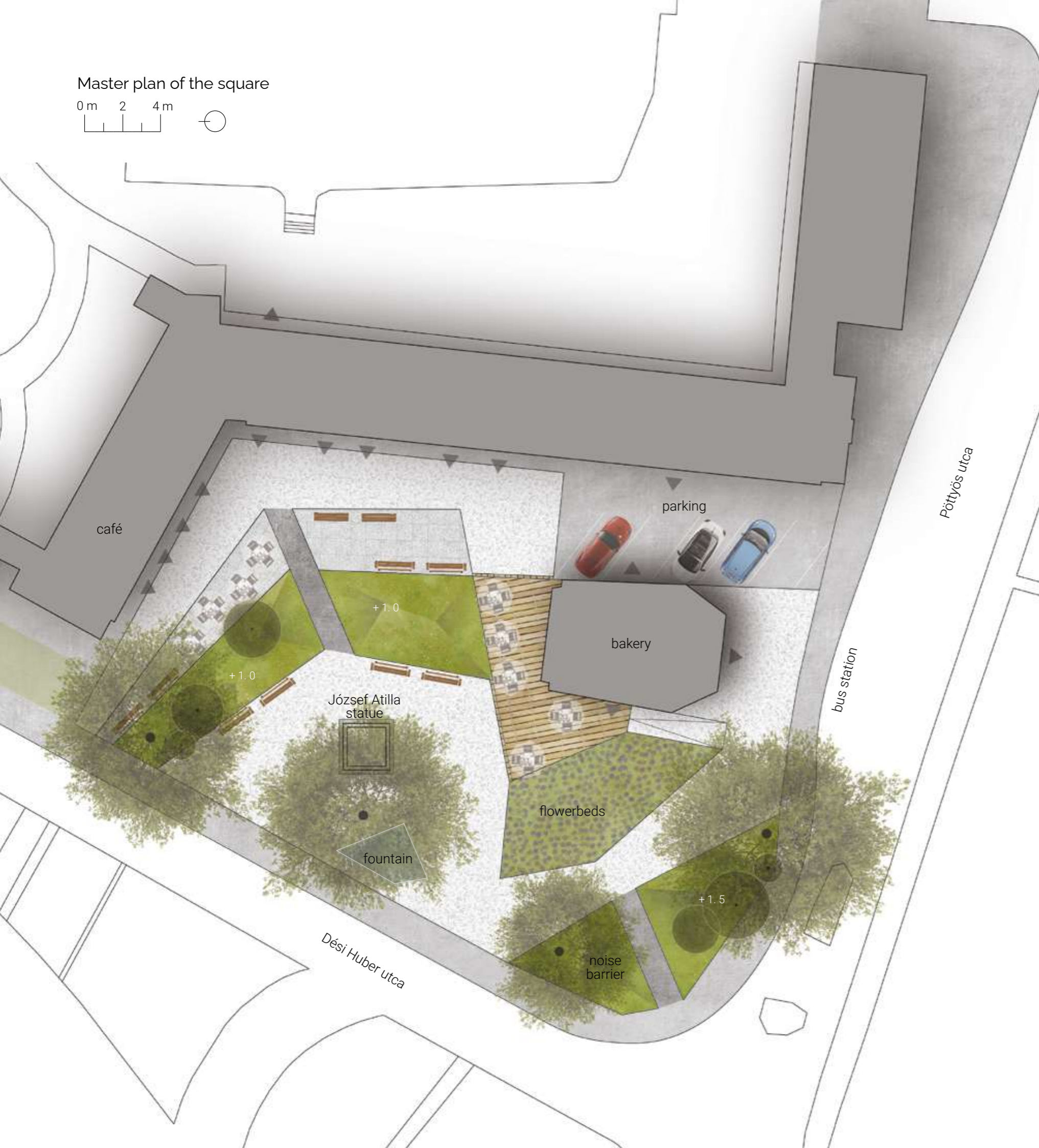
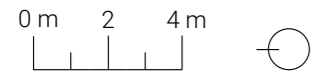
The main articulation element in the space is green topography, which also serves as the noise barrier on the southern part of the square. The bakery garden and café gardens become the most important social part of the square, as the bakery building opens up to the square. A fountain is placed near the statue of Josef Atilla. The pavement is made out of various kinds of materials; from natural materials like wood and quarry stones to artificial concrete blocks and asphalt. The plan proposes preservation of smaller parking area for shop customers.



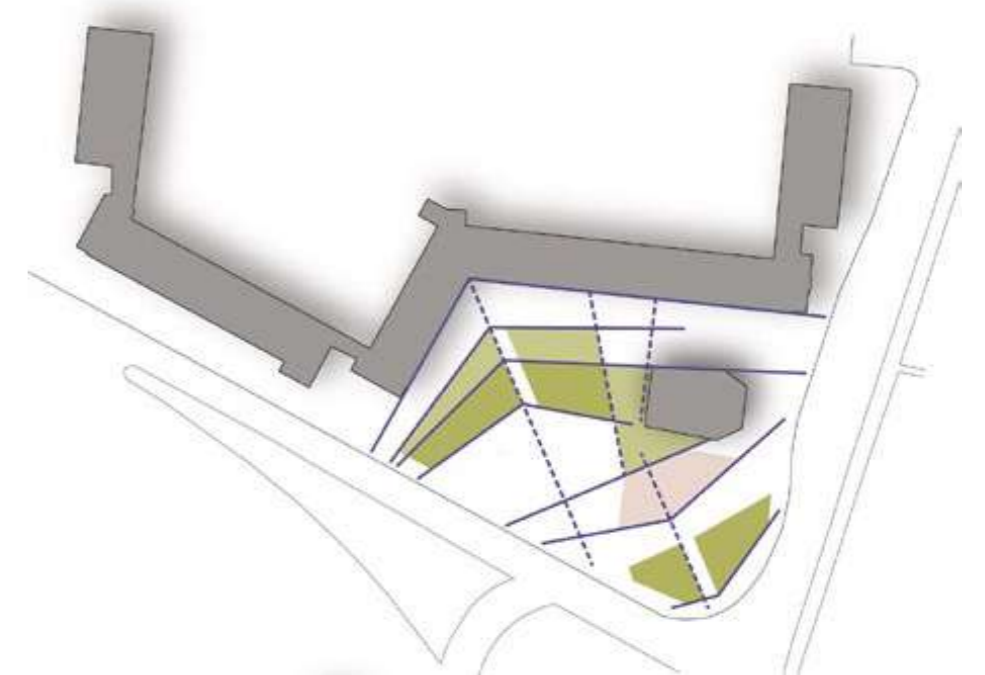
Design objectives



Master plan of the square

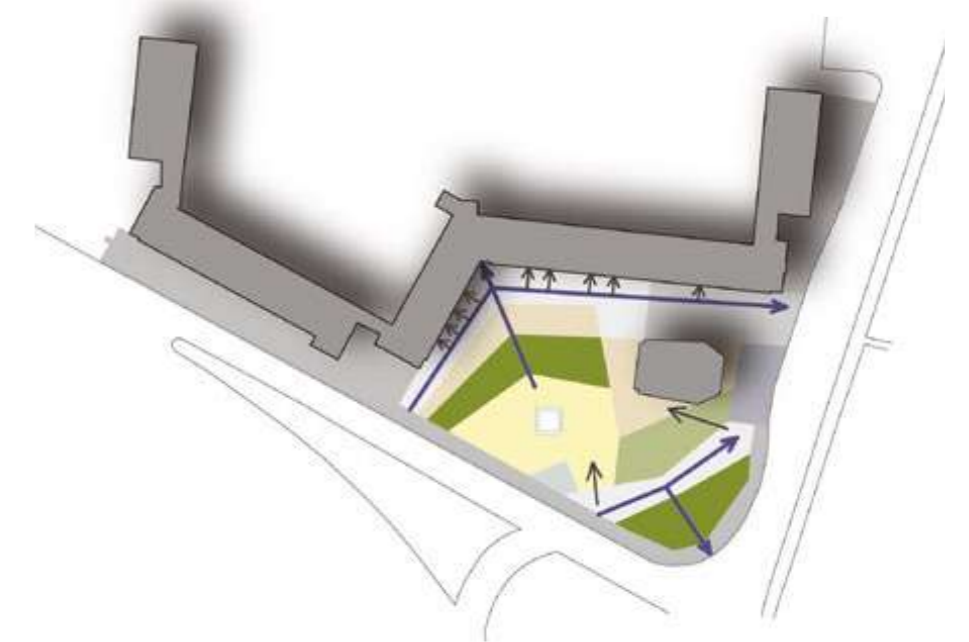


Form derivations



— forms - - - main axis

New functions and program



green topography	square sitting spots	fountain
flowerbeds		pedestrian flow

THERAPEUTIC GARDEN OF THE REHABILITATION INSTITUTE SOČA, LJUBLJANA, SLOVENIA

Student project

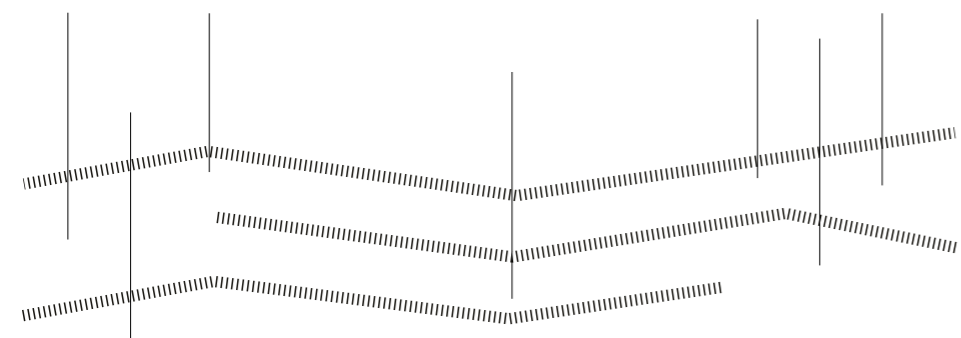
School year: 2014/2015, the third year of BSc

Mentors: doc. Darja Matjašec, dr. Marko Dobrilovič

Tasks: master plan (1:500), visualisations, sections (scale 1:500), schemes, model, planting plan (scale 1:500) and technical drawings (scale 1:100)

SOČA is medical and dispensary institution with the intention to hospitalise and treat people with motion and perception difficulties. Patients suffer for either physical or mental disability and are in most cases not able to walk without the assistance of wheelchair or crutches. Some people are experiencing orientation and sensing troubles. The proposal for the therapeutic garden is in terms of accessibility accommodated to the needs of wheelchair users. The main purpose of garden design is to encourage mental and physical recovery.

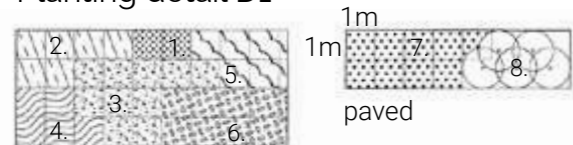
Physical recovery is attained by practising walk with a companion or trainer. It is supported by creating different steps and stairs while using various types of material like grass, pebbles and concrete. The location of the stairs was decided with considerations to wheelchair users. Modern psychological treatments in terms of mental recovery emphasise the healing power of plants. They assume that colourful, sweet-scented and tasty plants help to awake human senses and fight stress or depression.



	SPRING	SUMMER	AUTUMN, WINTER		
SIGHT				<i>Acer rubrum</i>	
				<i>Chaenomeles x superba</i> 'Crimson and gold'	
				<i>Cornus alba</i> 'Elegantissima'	
				<i>Forsythia x intermedia</i>	
				<i>Kerria japonica</i> 'Pleniflora'	
				<i>Magnolia liliflora</i> 'Nigra'	
				<i>Quercus coccinea</i>	
				<i>Syringa vulgaris</i> 'Charles joly'	
	SMELL				<i>Chimonanthus praecox</i>
					<i>Helleborus niger</i>
				<i>Lavandula angustifolia</i> 'Hidecote'	
				<i>Lonicera purpusii</i>	
				<i>Nepeta faassenii</i>	
				<i>Philadelphus coronarius</i>	
				<i>Prunus laurocerasus</i> 'Shikaensis'	
				<i>Salvia nemorosa</i>	
				<i>Viburnum bodnantense</i> 'Dawn'	
NOISE REDUCTION					<i>Spiraea vanhouttei</i>
				<i>Viburnum burkwodii</i>	
				<i>Viburnum rhytidophyllum</i>	
TASTE				<i>Fragaria vesca</i>	
				<i>Physalis alkekengii</i>	
				<i>Vaccinium corymbosum</i>	
Plant palette					



Planting detail D1



entrance to the building

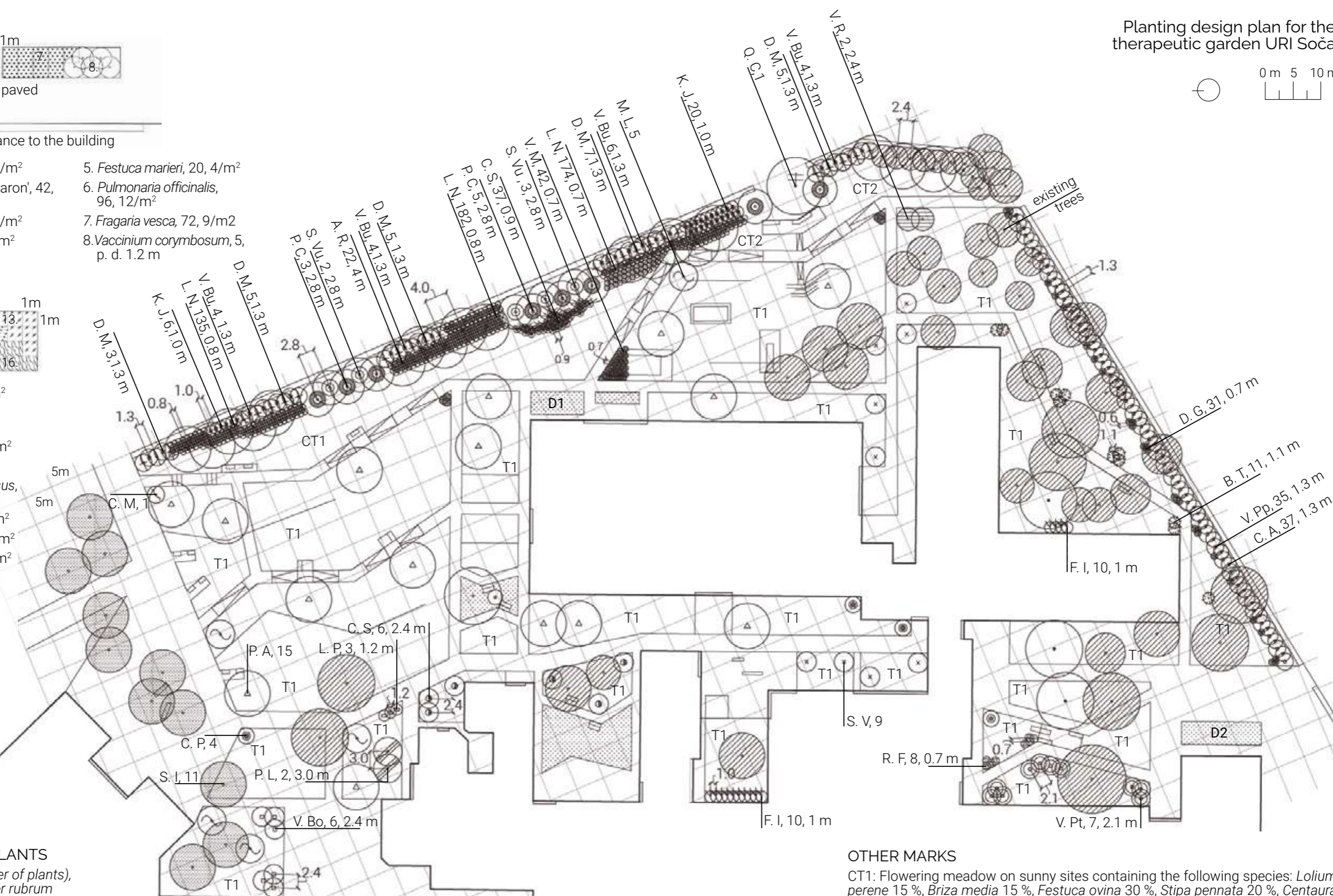
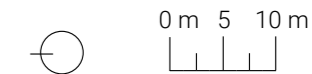
- 1. *Omphalodes verna*, 24, 12/m²
- 2. *Imperata cylindrica* 'Red Baron', 42, 7/m²
- 3. *Sanguisorba obtusa*, 40, 4/m²
- 4. *Armeria maritima*, 75, 15/m²
- 5. *Festuca marieri*, 20, 4/m²
- 6. *Pulmonaria officinalis*, 96, 12/m²
- 7. *Fragaria vesca*, 72, 9/m²
- 8. *Vaccinium corymbosum*, 5, p. d. 1.2 m

Planting detail D2



- 9. *Nepeta faassenii*, 64, 8/m²
- 10. *Lavandula angustifolia* 'Hidecote', 56, 8/m²
- 11. *Alium giganteum*, 40, 8/m²
- 12. *Carex montana*, 64, 8/m²
- 13. *Santolina chamaecyparissus*, 42, 6/m²
- 14. *Salvia nemorosa*, 36, 6/m²
- 15. *Gaura lindheimeri*, 30, 6/m²
- 16. *Alium giganteum*, 56, 8/m²

Planting design plan for the therapeutic garden URI Soča



ABBREVIATIONS FOR PLANTS

- A. R (*Latin name*), 22 (*number of plants*), 4 m (*planting distance*) - *Acer rubrum* (*Latin name*)
- B. T, *Berberis thunbergii*
- C. S, *Chaenomeles x superba* 'Crimson and gold'
- C. P, *Chimonanthus praecox*
- C. A, *Cornus alba* 'Elegantissima'
- C. M, *Cornus mas*
- C. S, *Cotoneaster salicifolius*

- D. M, *Deutzia magnifica*
- D. G, *Deutzia gracilis*
- F. I, *Forsythia x intermedia*
- K. J, *Kerria japonica* 'Pleniflora'
- L. N, *Lonicera nitida* 'Elegant'
- L. P, *Lonicera purpusii*
- M. L, *Magnolia liliflora* 'Nigra'

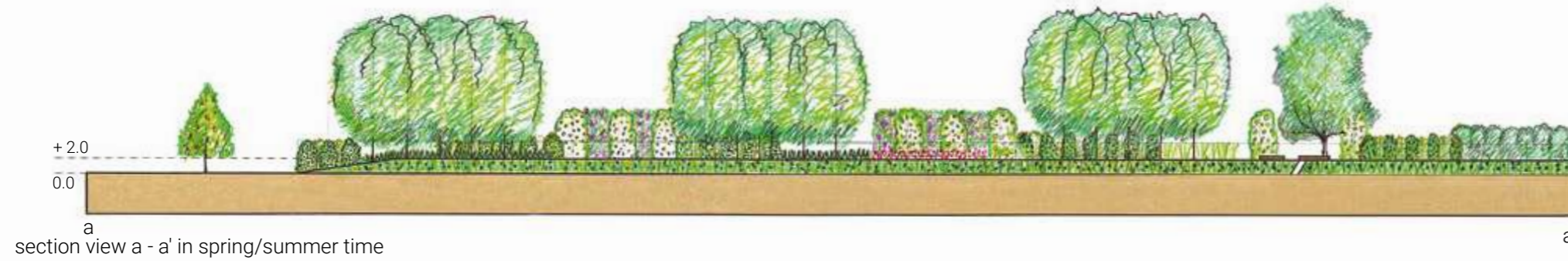
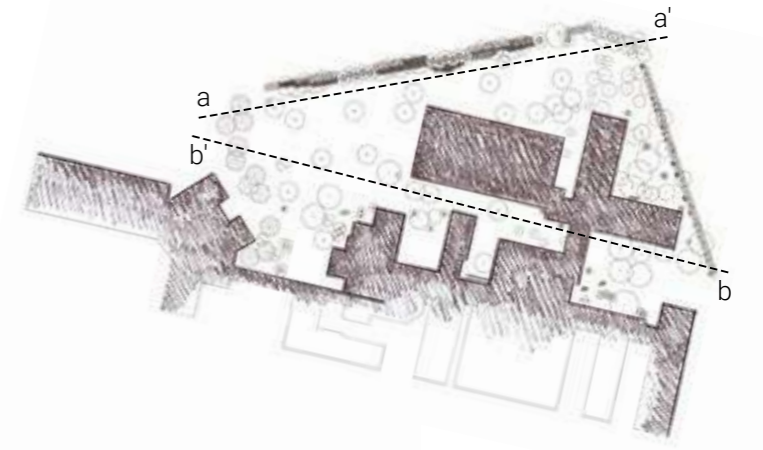
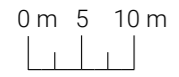
- P. C, *Philadelphus coronarius*
- P. A, *Prunus avium* 'Plena'
- P. L, *Prunus laurocerasus* 'Shikaensis'
- Q. C, *Quercus coccinea*
- R. F, *Rosa* 'The fairy'
- S. I, *Sorbus intermedia* 'Bouwers'
- S. V, *Spiraea vanhouttei*

- S. Vu, *Syringa vulgaris* 'Charles joly'
- V. Bo, *Viburnum bodnantense* 'Dawn'
- V. Bu, *Viburnum burkwodii*
- V. Pt, *Viburnum plicatum f. tomentosum*
- V. Pp, *Viburnum plicatum* 'Pragense'
- V. R, *Viburnum rhytidophyllum*
- V. M, *Vinca major* 'Variegata'

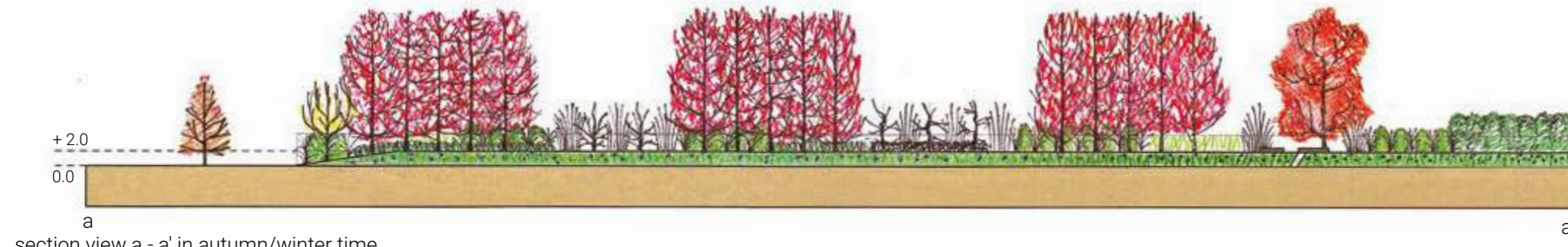
OTHER MARKS

- CT1: Flowering meadow on sunny sites containing the following species: *Lolium perenne* 15%, *Briza media* 15%, *Festuca ovina* 30%, *Stipa pennata* 20%, *Centaurea scabiosa*, *Cyananthemum leuchanthemum*, *Anthyllis vulneraria*, *Salvia pratensis* 20%
- CT2: Flowering meadow on partly shaded site containing the following species: *Poa nemoralis* 20%, *Luzula nivea* 20%, *Carex alba* 20%, *Festuca rubra commutata* 10%, *Festuca ovina ssp. tenuifolia* 10%, *Campanula glomerata*, *Aster laevis*, *Hypericum perforatum* 20%
- T1: Long-lasting lawn containing the following species: *Lolium perenne* 35%, *Poa compressa* 10%, *Agrostis tenuis* 20%, *Phleum pratense* 15%, *Festuca rubra commutata* 20%
- D: Details of the perennial planting

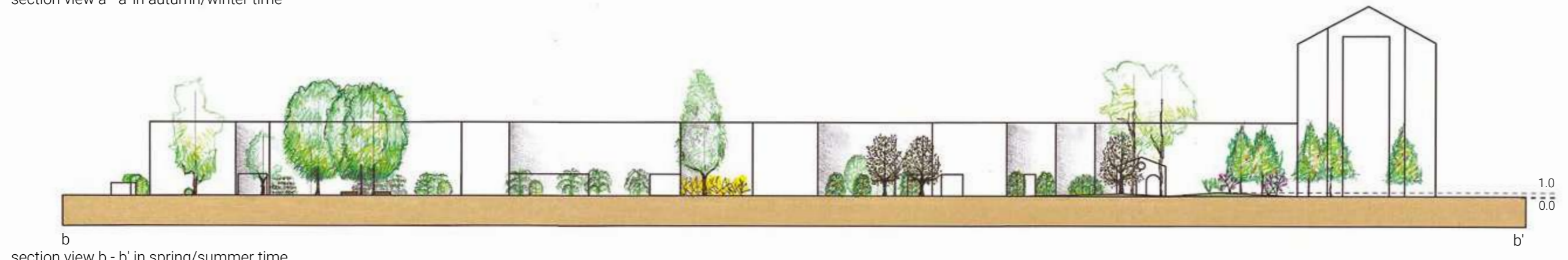
Sections of the therapeutic garden URI Soča



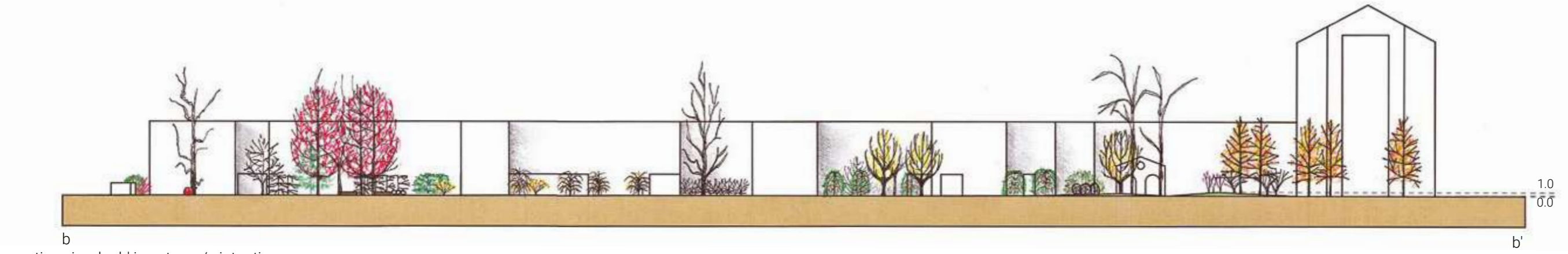
section view a - a' in spring/summer time



section view a - a' in autumn/winter time



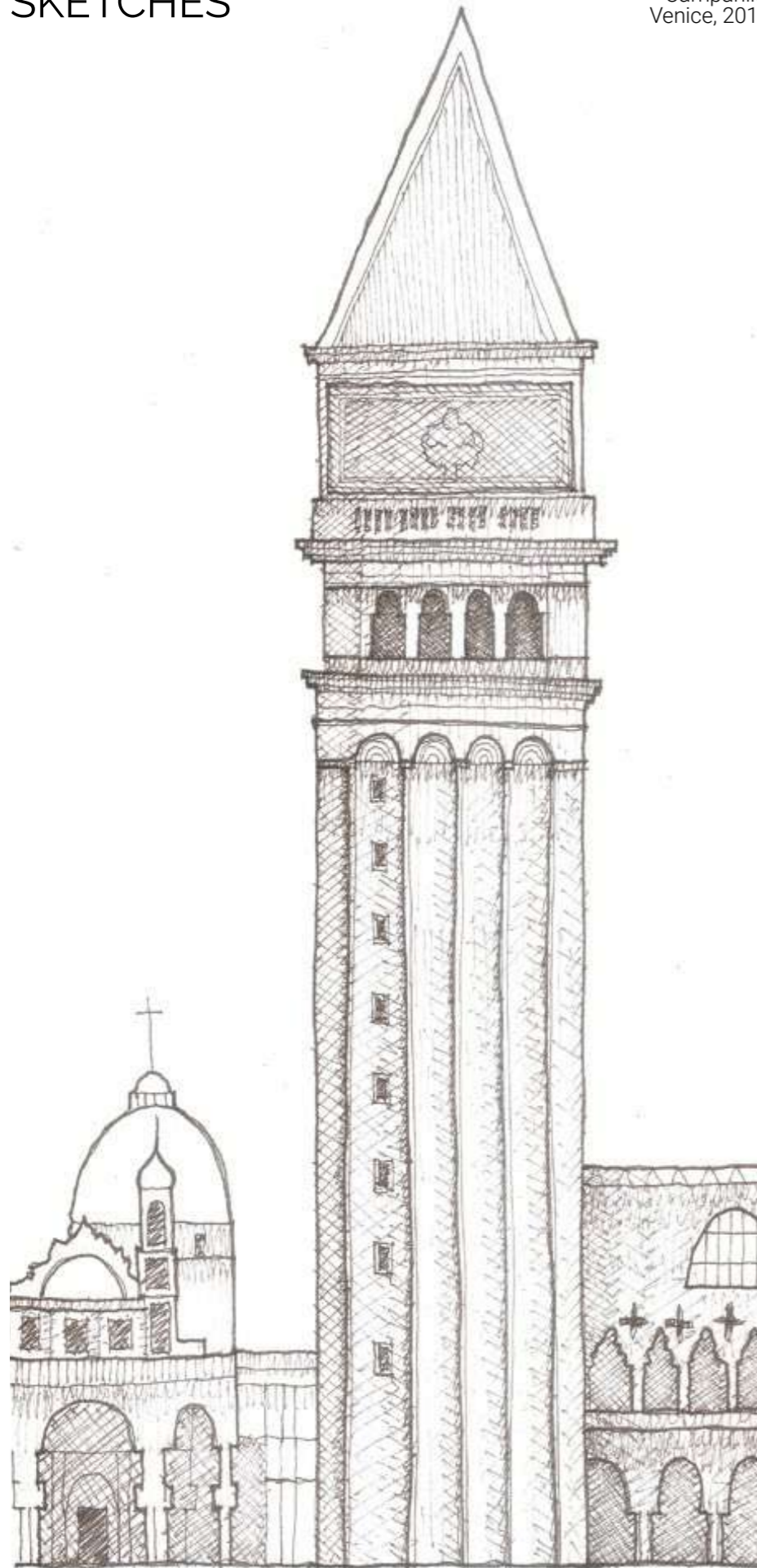
section view b - b' in spring/summer time



section view b - b' in autumn/winter time

SKETCHES

Campanile, Venice, 2018
Ljubljana, 2018

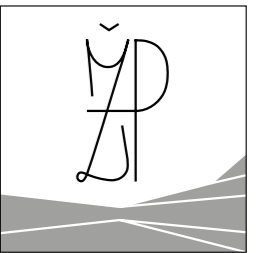


Kamnik-Savinja Alps, 2018



Bohinj, 2018

Thank you for your attention!



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