Žatec:

Reclaiming the riverplain

DIPLOMA PROJECT / DESIGN PORTFOLIO

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FA CVUT. LS 2022/2023



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INTRODUCTION

The project explores the potential of the city of Žatec as an attractive adn autonomous town with layers of high quality public life.

Once the most important centre of hops production in the world, Žatec is highly equipped in technical, administrative and health infrastructure, although it is not an administrative capital of its region.

Today, the city of Žatec risks losing its centuries old agricultural identity due to wars and political regimes. The town has applied to a protection from the Unesco World Heritage to preserve the Hops related buildings a well as the surrounding landscapes where Hops is still grown. While the protection might ensure the preservation of this identity, it holds a risk of not contributing to the local life in any significant way.

The proposal aims at redifining the urban structure to serve local inhabitants while creating clear connections to the Historic Core. This approach searches a sustainable future of the town should where its green identity is preserved and continued onto the future.

Faculty of Architecture

International Office Thákurova 9, 166 34 Prague 6, Czech Republic



Czech Technical University in Prague, Faculty of Architecture
ASSIGNMENT of the Diploma project
Master degree

Date of Birth:

17/11/1995

Academic Year / Semester: Summer semester 2022-2023

Department Number / Name: 15121 - Department of Spatial Planning

Diploma Project Tutor: Ing. Arch. Veronika Šindlerová, Ph.D.

Diploma Project Theme:

Žatec : Reclaiming the River Plain in relation with the Historic Core

Assignment of the Diploma Project:

1/description of the project assignment and the expected solution objective

The project assignment looks to reclaim the river plain of the Ohře river in Žatec in contact with the historical core of the town, which is protected as a monument. While the protected old town as well as the Prague district is very important for the preservation of the town's unique history, character and importance, the rest of the town, including the river plain of the Ohře river, must evolve somehow too in order to avoid the shrinkage of the population of the town, and ensure steady growth for its future to be sustainable.

Until the second half of the 20th century, the river plain was utilized by farmers to grow hops, together with settlement for farmers. A stream flowed through it, used to irrigate the hops fields. Nowadays the stream is fully covered up by roads and the river plain is changed to the residential areas, mainly in the typology of block of flats housing estates to the West, and unbuilt land with agricultural activities and water treatment facilities to the East. The separation of this "lower town" in the river plain from the historical town core on a promontory above the river is defined by drastic topographical difference, covered by a strip of greenery and parks, interrupted at places.

The objective of the project is to propose the vision and concept of urban transformation of the river plain into a well structured and equipped area for the locals of Žatec, while creating clear connections to the historical core. This will help overlap layers of history but also of social classes and types of visitors of the city of Žatec, and ensure its sustainable future.

description of the final result, outputs and elaboration scales

A- Theoretical research, mapping of current status and analysis

- Theoretical research of needs and trends of urban development of former agricultural towns and cities and UNESCO heritage towns
- Case studies of
 - Heritage towns in function to their development and their strategies for the future
 - \circ Towns with streams running through them and their incorporation into the urban structure
- Complex mapping of the current status of Žatec and its surroundings to terms of its history, infrastructure, urban structure, functions, landscape context etc.
- Detailed mapping of current status of the area of the river plain linked to the historical town core,
 especially the functions and usage, urban structure, system of public spaces, transportation infrastructure,
 public amenities and other services, town greenery etc.
- Analysis of positives and negatives of the current status of Žatec and of the area of interest (river plain), informing about the opportunities and risks of the territory for its future development (SWOT analysis, map of positives and negatives)

B- Design

- Vision and goals for the regeneration of the river plain of Žatec in contact with the historical core of the town
- Concept and general urban design of the regeneration of the river plain of Žatec in contact with the historical core of the town, included the solution of the mutual integration of Historic core and overlooked river plain and reintegration of the former stream into the urban structure of the river plain.
- Urban Situation / Master plan (approx. 1:5000)
- Selected Urban Details (approx. 1:1000)
- Schemes of new proposed solutions of the designed system of public spaces, transportation infrastructure system, system of town greenery, functions, etc.
- Selected sections through important public spaces (approx. 1:500/1:1000)
- Overview perspectives of the urban situation
- Perspectives from human horizon of important public spaces

3/list of further agreed-upon parts of the project (model)

To this list further attachments can be added according if necessary.

- Physical Model of one selected Urban detail
- A4 Portfolio of the Analytical part and theoretical Research (according to FA CTU guidelines)
- A4 Portfolio of the Design part (according to FA CTU guidelines)
- 2x A0 Posters or 4x A1

Date and Signature of the Student:

O2 | O3 | Lo23

Date and Signature of the Diploma Project Tutor: O2/03/2023

Date and Signature of the Dean of FA CTU:

Faculty of Architecture

International Office Thákurova 9, 166 34 Prague 6, Czech Republic



CZECH TECHNICAL UNIVERSITY IN PRAGUE **FACULTY OF ARCHITECTURE**

FACULTY OF ARCHITECTURE		
AUTOR, DIPLOMANT: AUTHOR OF THE DIPLOMA WORK / DIPLOMA PROJECT Academic Year 2022/2023 , Summer Semester		
TITLE OF THE DIPLOMA WORK / DIPLOMA PROJECT (IN CZECH LANGUAGE) - Žatec: Rekultivace Toku v Návaznosti na Historické Jádro		
TITLE OF THE DIPLOMA WORK / DIPLOMA PROJECT (IN ENGLISH LANGUAGE) - Žatec: Reclaiming the Riverplain in relation with the Historic Core		
LANGUAGE OF THE DIPLOMA WORK / DIPLOMA PROJECT: English		
Diploma Work / Diploma Project Supervisor	Ing. arch. Veronika Šindlerová, Ph.D.	
	ÚSTAV PROSTOROVÉHO PLÁNOVÁNÍ : Department of Spatial Planning	
Diploma Work / Diploma Project Opponent	Mikael Ekegren	
Key Words (Czech)	Žatec, Ohře, Revitalizace, Veřejný prostor, Potok, Zelený Urbanismus	
Annotation (Czech)		
Annotation (English)		

The Author's Declaration

I declare that I have elaborated the submitted diploma work / diploma project independently and that I have stated all the used information sources in coherence with the "Methodological Instruction for Ethical Preparation of University Final Works".

(The complete text of the methodological instruction is available for download on http://www.fa.cvut.cz/En)

In Prague on ______Signature of the Diploma Project Author

This document is an essential and obligatory part of the diploma project / portfolio / CD.

1

VISION

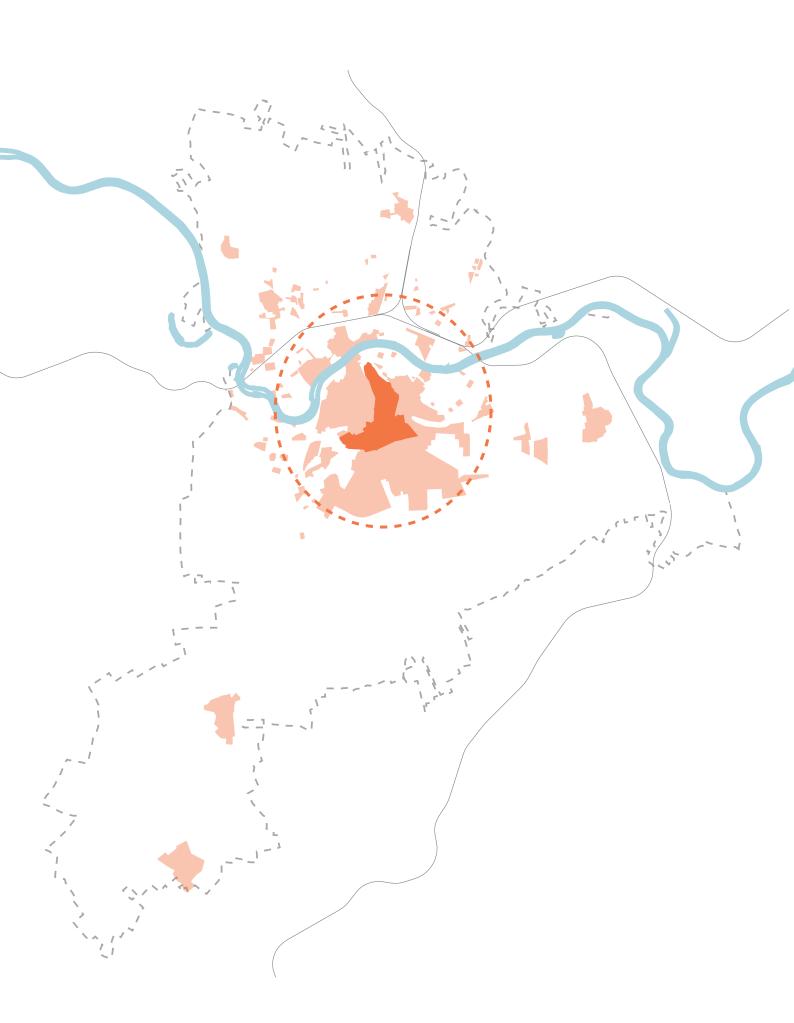
" RECLAIMING

THE RIVERPLAIN

IN FUNCTION TO

THE HISTORICAL CORE "

A LIVELY UNESCO TOWN



WITH MULTI-LAYERED PUBLIC LIFE



AND STRONG GREEN CHARACTER



CONCEPT

The approach is to strengthen local life enough to ensure that the shrinkage of the population can be avoided. Beyond that, high quality urban spaces of different characters need to be recreated so as to spread the activity zones as much as possible and keep the city "alive".

The existing strong green character needs to be amplified and supported through making more public green spaces.

3 NEW PRODUCTIVE CORES

Three existing cores in the "Lesser Town" are identified to create hubs of different characters. The aim is to offer different profiles of visitors different environments and bring the neighbourhood more alive than they are today.



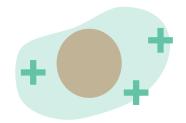


WITH RELATION TO THE HISTORIC CENTRE

All neighbourhoods have some relation with the Historic Core wether it be visual or for access. Keeping the connection to the Old Town is key in creating a permeable town all throughout and across, despite the high difference in altitudes.



INTERACTIVE EDGES



Each Core is defined by an "Edge", where key places act as interactive points.

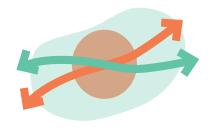
These points are where different people with different profiles may meet and interact.

This creates a continuity in movement through the town as well as diversity.



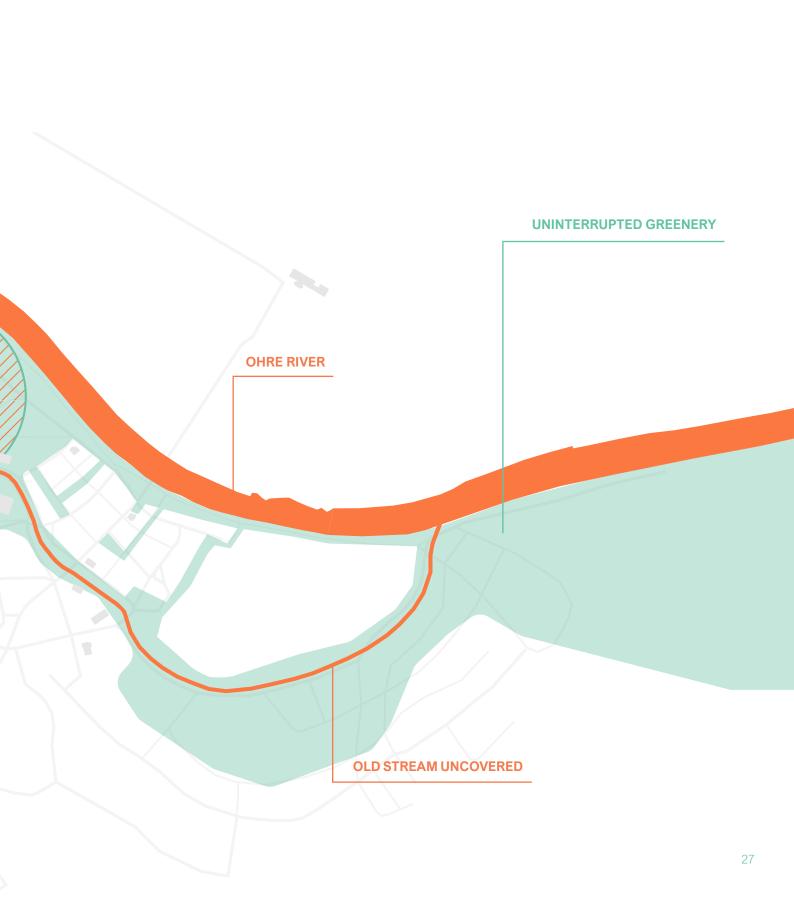


CONNECTED BY CORRIDORS



The Ohre River, the improved continuous greenery and the uncovered old stream act as three dimentional binding elements that connect the 3 cores to eachother and to the interactive points thorughout the Riverplain.





DESIGN

The main design motivations are movement, green identity and diversity in the riverplain of the Ohre River. A successful design results in the immediate improvement of the quality of life in Zatec and revive the once bustling energy of this once Medieval town.

DESIGN CRITERIA _____

MOTIVATION OF USERS



CYCLING



SIGHT SEEING



EXPLORING



PLAYING



FAMILY TIME



RELAXING



MEDITATION



FARMING



HOBBY **FARMING**



COLLECTIVE **FARMING**



HOPS **EXPERTISE**



SOCIALIZING



SHOPPING



WORKING

TYPOLOGIES



MIXED URBAN



NEW URBAN



PANELAK



GARDEN



TWIN HOMES



ROW HOUSES



SHOPS



















PARK

PLAYGROUND

CAFE

BEER GARDEN / PICINIC

SPORTS AREAL

FORREST

WATERFRONT GREEN PATH

FIELD

CHARACTERS



QUIET



LOUD





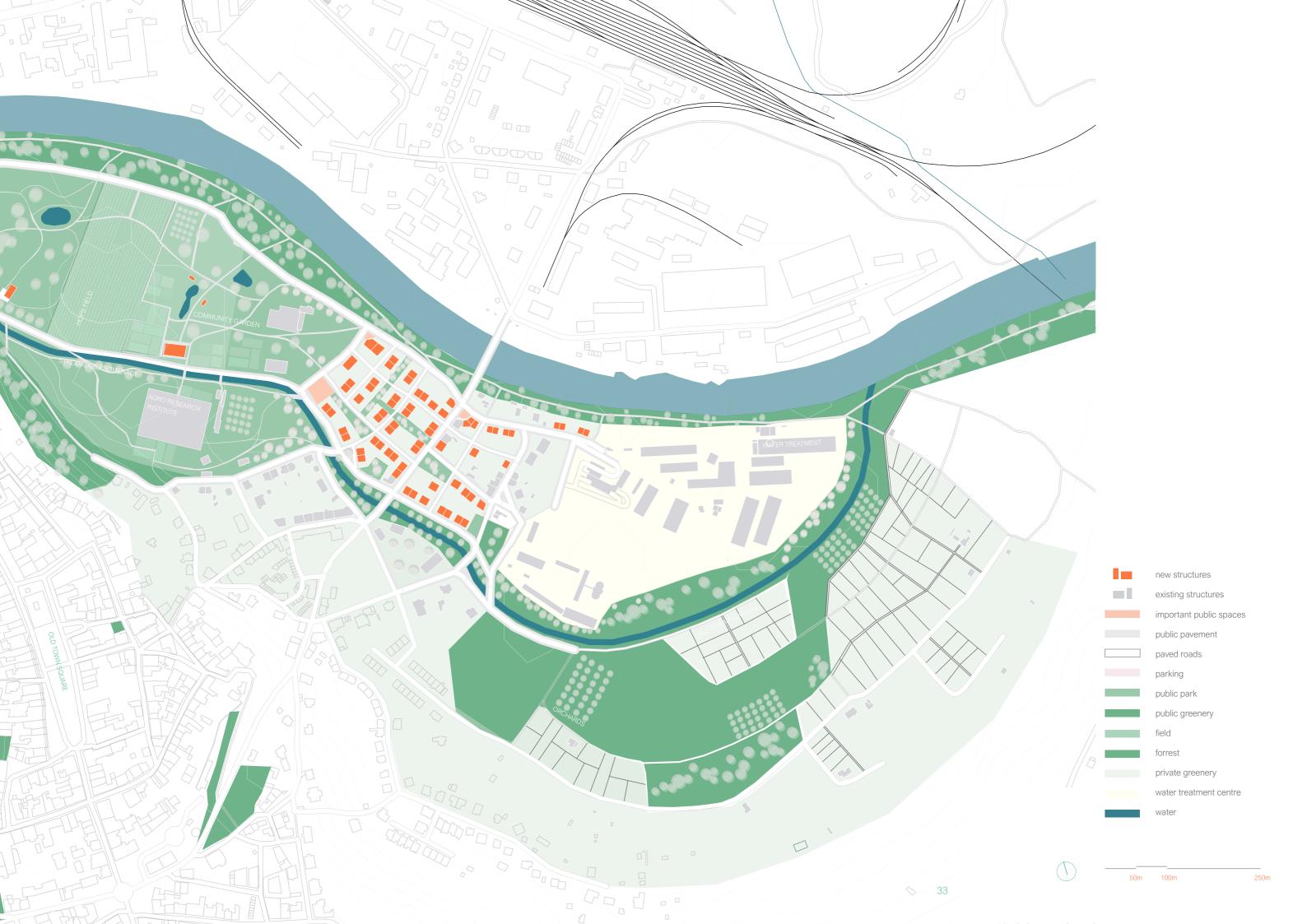




INDIVIDUAL

TRANSITIONAL DESTINATION







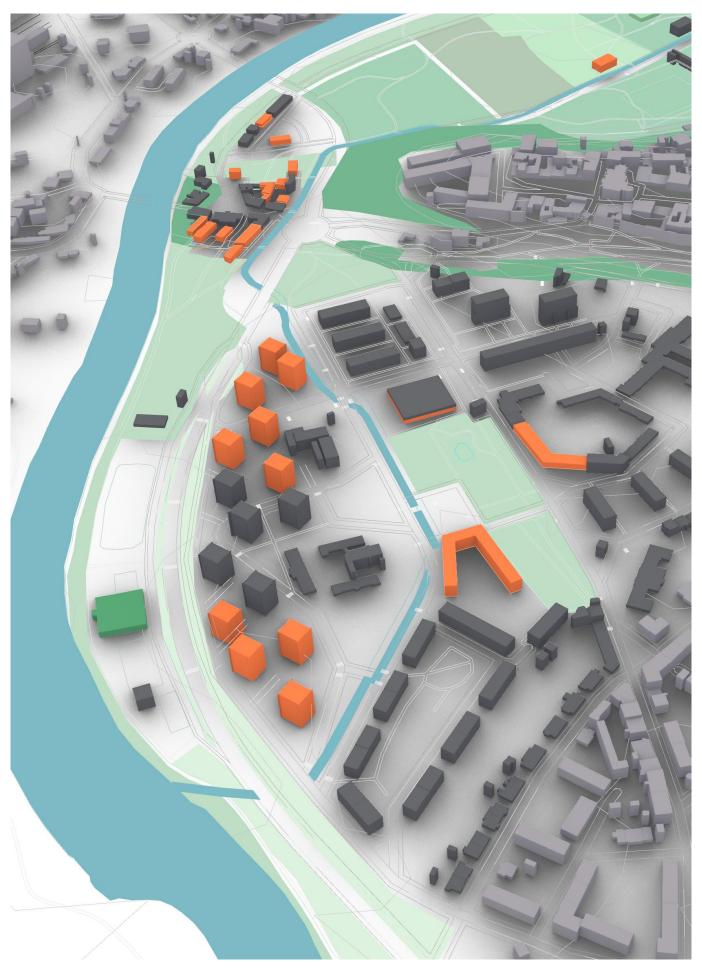


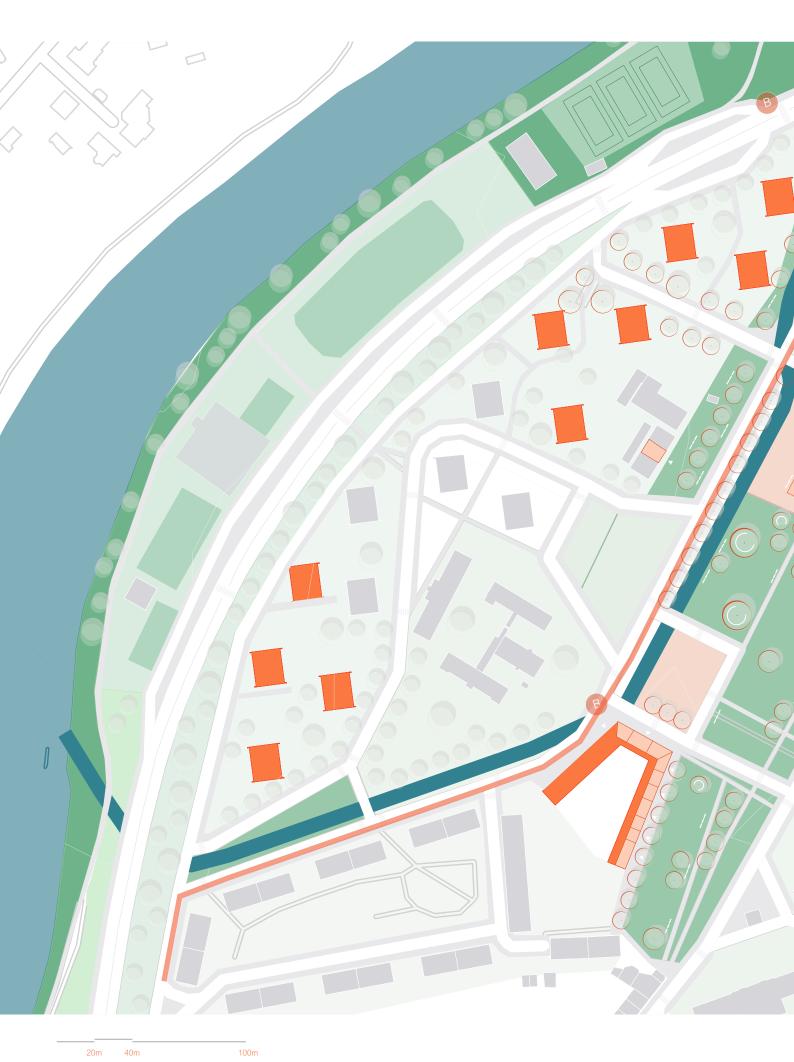
URBAN CORE

Located on the lower-west side of the Historic Centre, this urban core was characterised by the development of Housing Estates during the Soviet Regime. The uncovering of the old stream acting as a catalyst to redefine the random structure of the urban fabric.

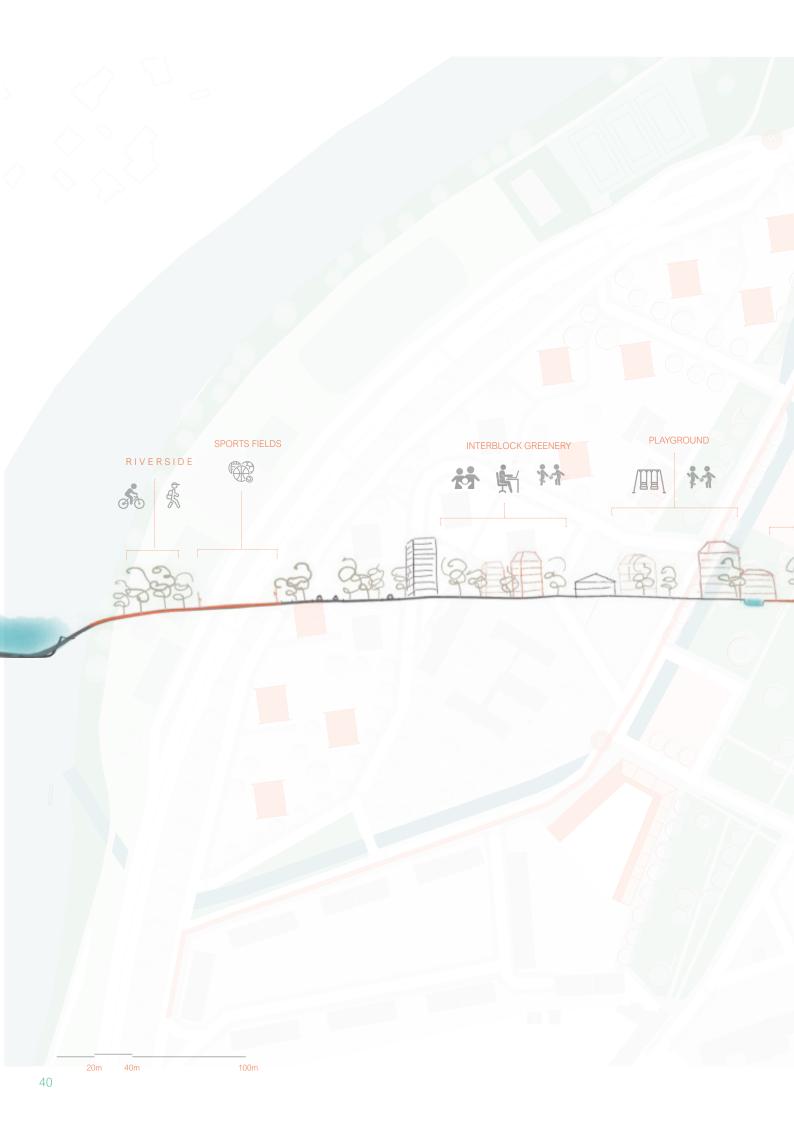
Some "Panelak" are cleared to make room for the stream as well as creating a central public space around it, where the newly improved neighbourhood can be drawn in.

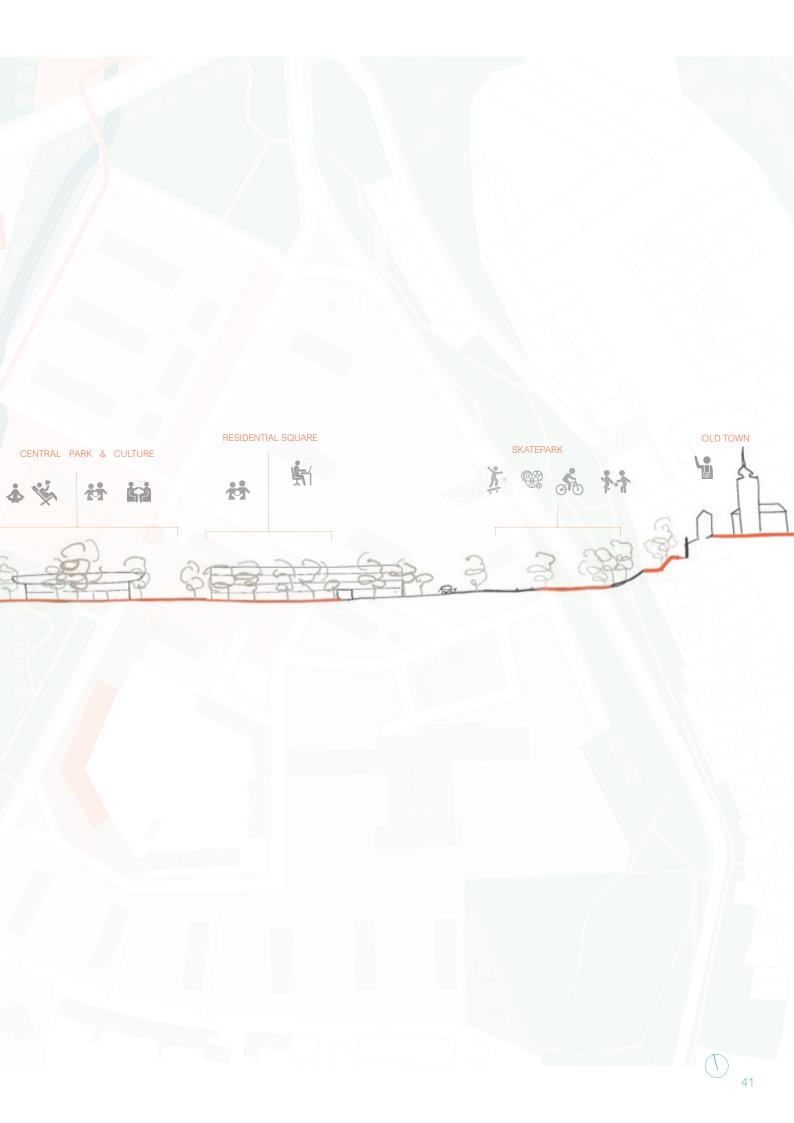


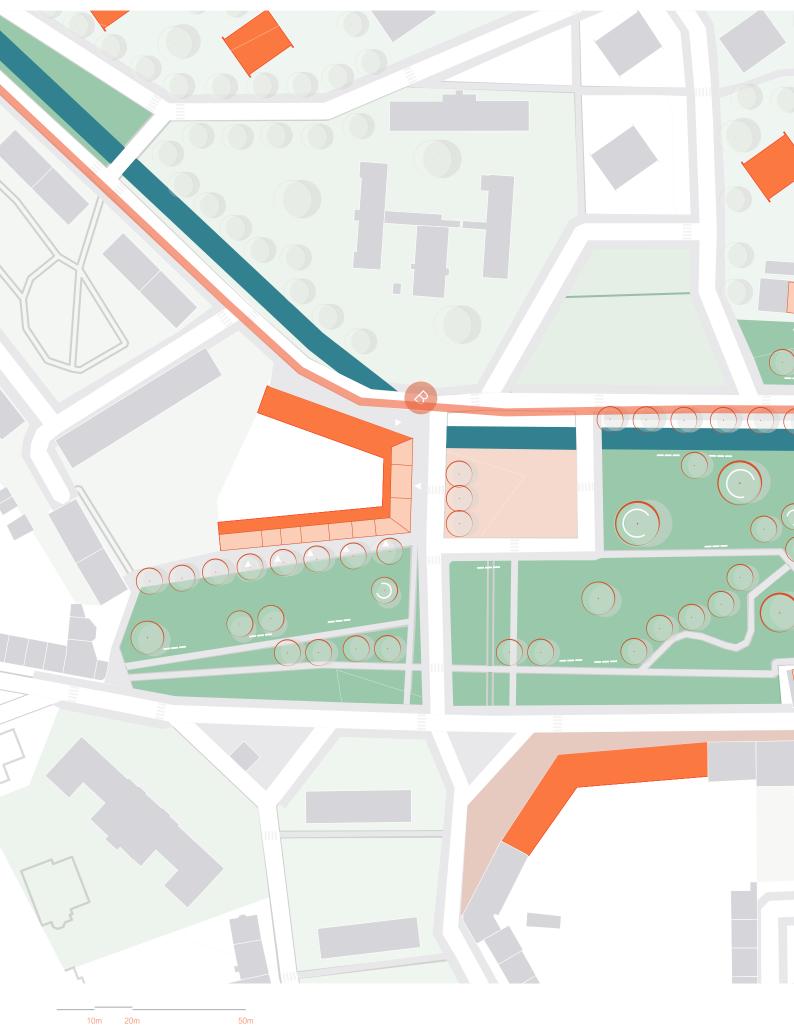


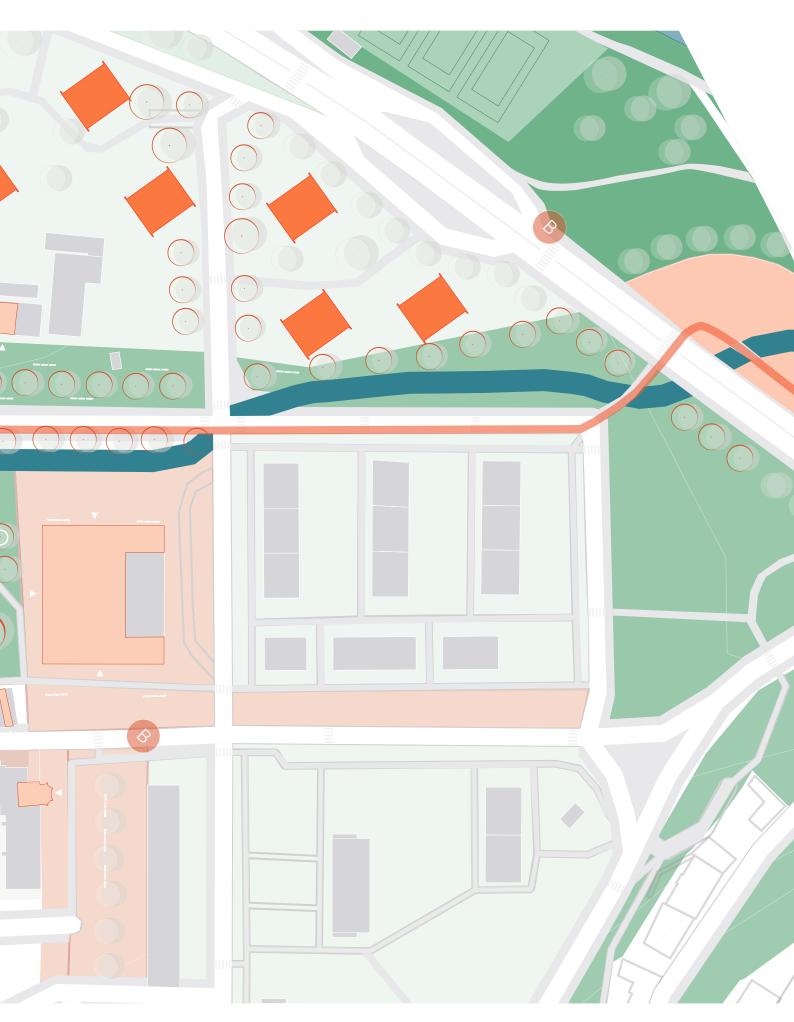












CENTRAL PARK

MOTIVATION OF USERS













SIGHT SEEING EXPLORING

PLAYING

FAMILY TIME

SHOPPING

SOCIALIZING

TYPOLOGIES













MIXED URBAN

CAFE

PICINIC

PARK

PANELAK

NEW URBAN

CHARACTERISTICS





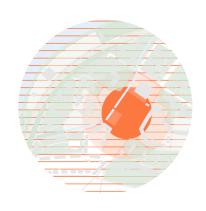




COLLECTIVE

DESTINATION

TRANSITIONAL





NEW URBAN VILLAS

MOTIVATION OF USERS







PLAYING

FAMILY TIME

WORKING

TYPOLOGIES









MIXED URBAN

NEW URBAN

PLAYGROUND





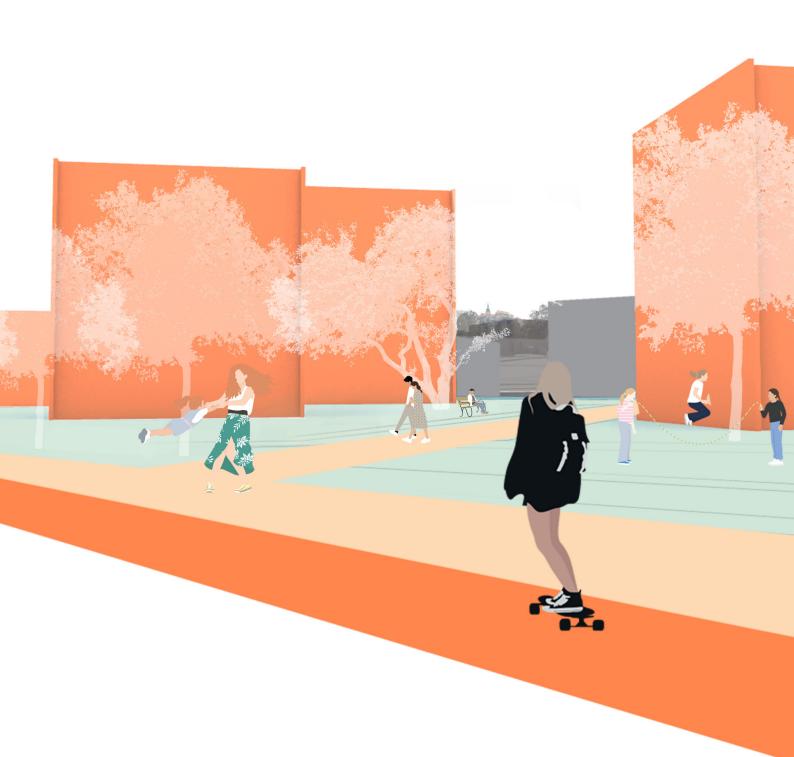


QUIET

INDIVIDUAL

TRANSITIONAL





THE SPORTS STRIP

MOTIVATION OF USERS



PLAYING



CYCLING



EXPLORING



SPORTS

TYPOLOGIES









LOUD



COLLECTIVE



INDIVIDUAL

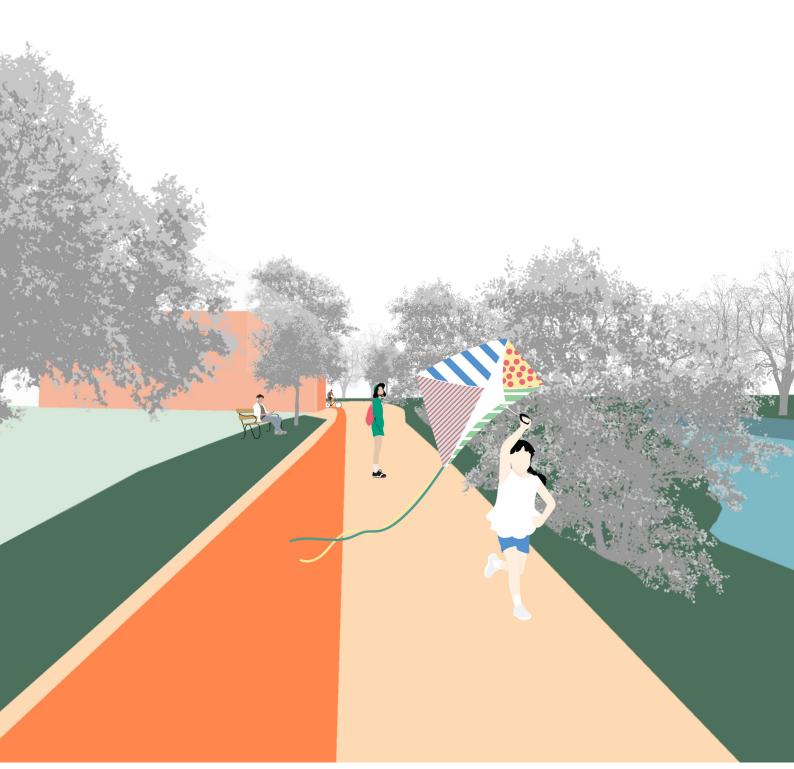


TRANSITIONAL



DESTINATION





NOSTALGIC CORE

The Nostalgic Core takes its name from the today's Husitske Namesti, the former Market Square. The newly revitalized square sits where the bridge and the riverside paths cross. The abandoned structured around it are repurposed into small shops and commerces. The idea is to strentghten this core for people who cross Zatec through the river, for the visitors interested in sightseeing and learning more abouth the town beyond Hops, but definitely also for the locals, a place to socialize shop and start or end a nice green promenade

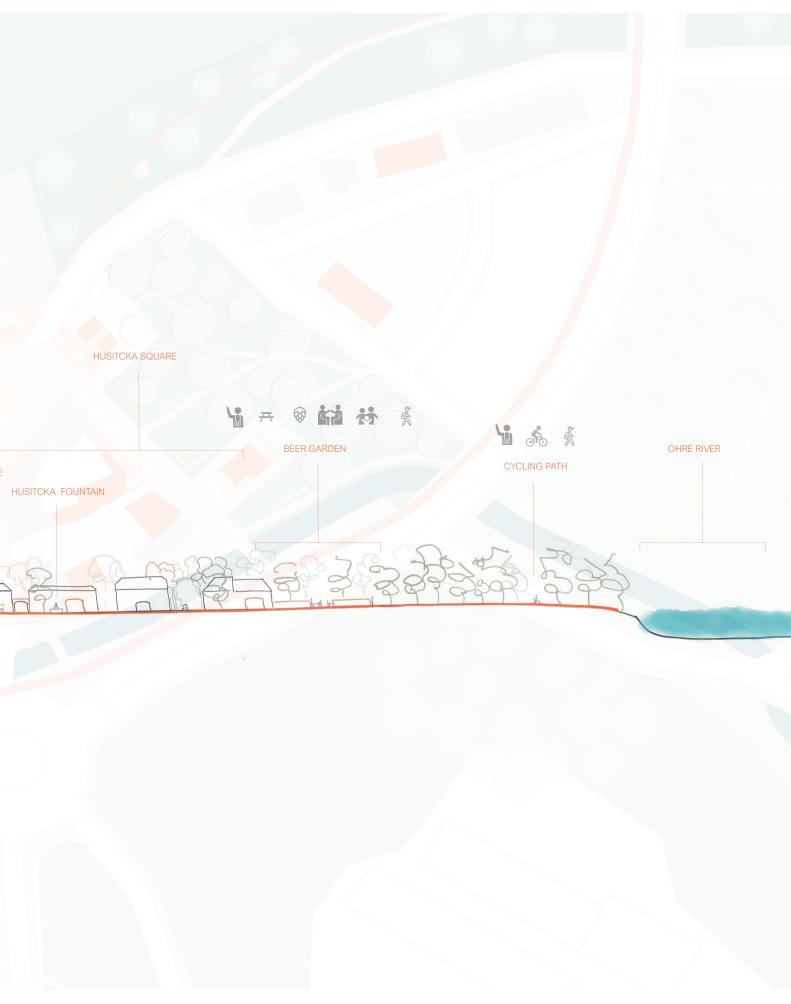












NOSTALGIC MARKET SQUARE

MOTIVATION OF USERS



SHOPPING



SOCIALIZING



SIGHT SEEING



EXPLORING



CYCLING

TYPOLOGIES



SHOPS



PARK



CAFE



LOUD



COLLECTIVE



15



TRANSITIONAL

DESTINATION





BEER GARDEN

MOTIVATION OF USERS



FAMILY TIME



SIGHT SEEING



EXPLORING



SOCIALIZING



PLAYING

TYPOLOGIES



PARK



PLAYGROUND



BEER GARDEN / PICINIC



WATERFRONT





LOUD



COLLECTIVE



TRANSITIONAL



DESTINATION





THE STREAM PROMENADE

MOTIVATION OF USERS



EXPLORING



CYCLING



SOCIALIZING



SHOPPING



SIGHT SEEING

TYPOLOGIES



PARK



CAFE



SHOPS



LOUD



COLLECTIVE



TRANSITIONAL



DESTINATION





GREEN CORE

The green core is perhaps the one going throught the most major change. The epicentre of this core is a new Community Garden located next to the only remining Hops field of Zatec. Surrounded by a new Botanical Garden, it strengthens the agricultural character of this part of town with the existing Agricultural Research Institute.

The Riverfront is cleared from garden colonies, which are moved into the free field more inland. Meanwhile, the broken structure of this historic part of town located on the important axis to the train station is patched through the creation of a new neighbourhood of shared houses with private gardens.

The Garden Colonies are surrounded by orchards so as to keep the private/public rhythm in this more quiet and green part of town.

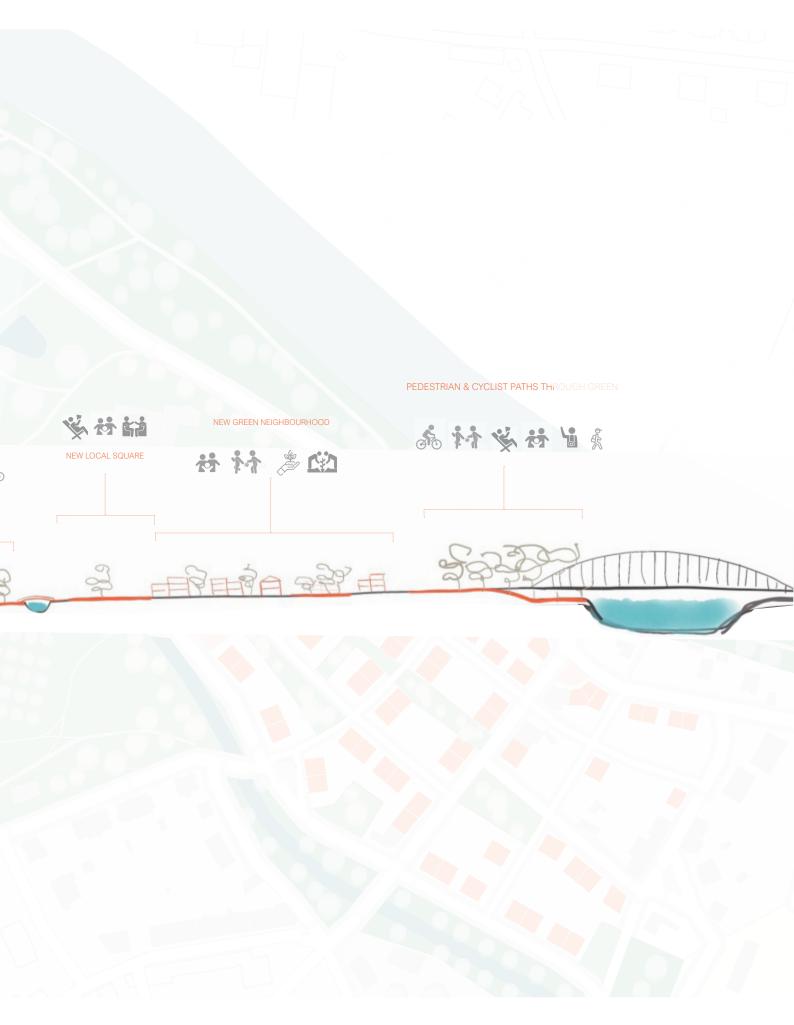












COMMUNITY GARDEN

MOTIVATION OF USERS



COLLECTIVE FARMING



HOPS EXPERTISE



FARMING



GREEN EDUCATION



FAMILY TIME



WELL-BEING

TYPOLOGIES



FIELD



FORREST



WATERFRONT



GREEN PATH



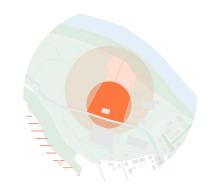
QUIET



COLLECTIVE



DESTINATION





BOTANICAL GARDENS

MOTIVATION OF USERS



SIGHT SEEING



EXPLORING



GREEN EDUCATION



FAMILY TIME



RELAXING



WELL-BEING

TYPOLOGIES



PICINIC



PARK



FORREST



GREEN PATH



WATERFRONT



FIELD



QUIET



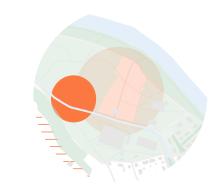
INDIVIDUAL



TRANSITIONAL



DESTINATION





GREEN NEIGHBOURHOOD

MOTIVATION OF USERS



FAMILY TIME



RELAXING



PLAYING



GREEN EDUCATION



COLLECTIVE FARMING

TYPOLOGIES



GARDEN



TWIN HOMES



GREEN PATH



PARK





QUIET



COLLECTIVE



INDIVIDUAL



DESTINATION



ORCHARDS & GARDEN COLONIES

MOTIVATION OF USERS



FAMILY TIME



RELAXING



WELL-BEING



FARMING



TYPOLOGIES



GARDEN



FORREST



WATERFRONT



GREEN PATH



FIELD

CHARACTERS



QUIET



INDIVIDUAL



TRANSITIONAL



DESTINATION





FUNCTIONING

NEW STRUCTURE



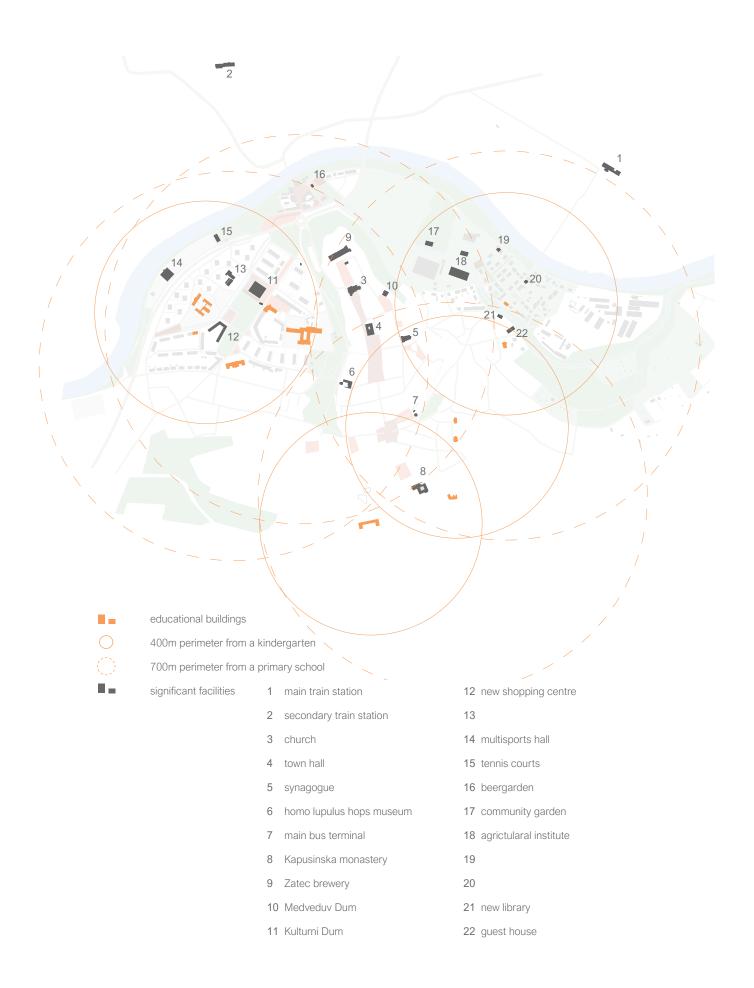


STRUCTURE OF FUNCTIONS



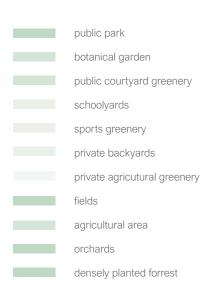


IMPORTANT FACILITIES



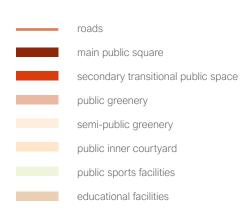
SYSTEM OF GREENERY



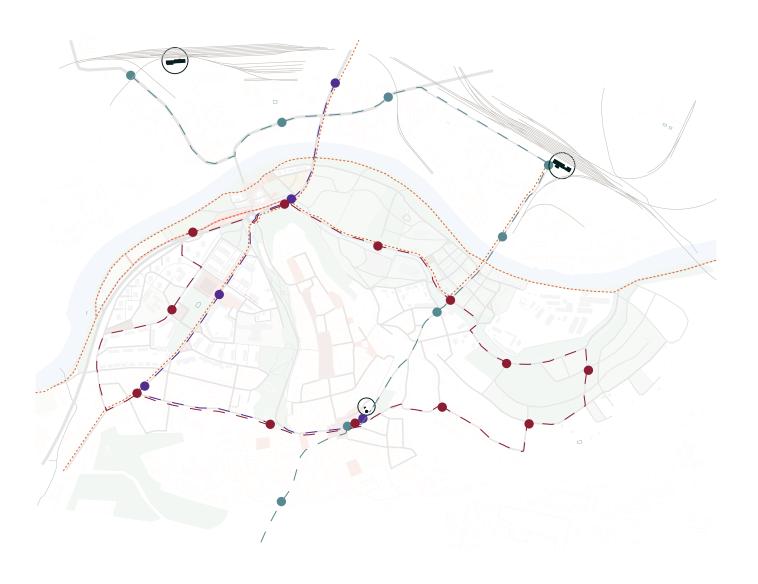


SYSTEM OF PUBLIC SPACES





TRANSPORT INFRASTRUCTURE



train stations
bus terminal
existing bus line 1
existing bus line 2
new bus line 3
bycicle path

PROCESS

METHODOLOGY

WHY ZATEC?

I first encountered Žatec in Atelier Efler, the Vernacular Architecture Studio at FA CVUT. The main focus was on the buildings used to process the hops grown in Žatec that are no longer in use today. I spent a semester stduying the urban structure of this "Prague District" of the town and explored the possibilities of opening, reusing old industrial blocks to make the city more permeable. The same principle could be used in the rest of this beautiful town to avoid it becoming a dormant UNESCO gem.

The fascination with Žatec resulted in a deeper curiosity of much larger scale for me, hence the site ans scope of this diploma work.

DEFINING THE SCOPE

While the Prague District is intricately full of possibilities, a wider scope would help make a more significant, or bolder change in the town and have a larger impact for a much wider array of visitors of the town and users of its spaces.

"A living UNESCO town" was a main vision that drove the search for the extent to which the project should find solutions.

DEFINING THE SITE

The intense topographical change and between the lower town where the hops was once grown and the Historci Core was an immediate challenge to take on.

While the randomly structured Housing Estates were daunting to touch, a somewhat radical approach was necessary in order to see significant effects of this intervention onto local life, beyond remaining as a concept.

CASE STUDIES

The case studies were both challenging and rewarding to find due to the many characters I was after for Žatec. The city of LitomysI was a great starting point conceptually to links different characters of a town trhough a continuous promenade that changes character.

The case for Žatec, however, was that no sole aspect of the corridors linking the edges of town were aimed to become the main concept of the project.

FOOD URBANISM

While the agricultural history of the town is obvious through the strong history with Hops, Žatec also has a surprising amount of Garden colonies in immediate vicinity of the centre. Together with the Agricultural Research Centre, this creates a very strong base for agricultural activity in Žatec, at the level of the public.

Opening this agro industry to the public and enhancing the opportunity for public agriculture invites residents from other parts of town to participate and claim the green identity even if they dont have a garden or a private plot.

REFLECTIONS

Working on this scale with many variants has been a challenge, although a rewarding one. I enjoyed the creation of this alternate possibility which seems quite achievable in real life even if taken on different scales or orders. With a site extending across the territory lenghtwise, it has been a challenge to express the motivations and the vision clearly, and create a coherent sequence of spaces that feed eachother and their surroundings.

DESIGN EVOLUTION



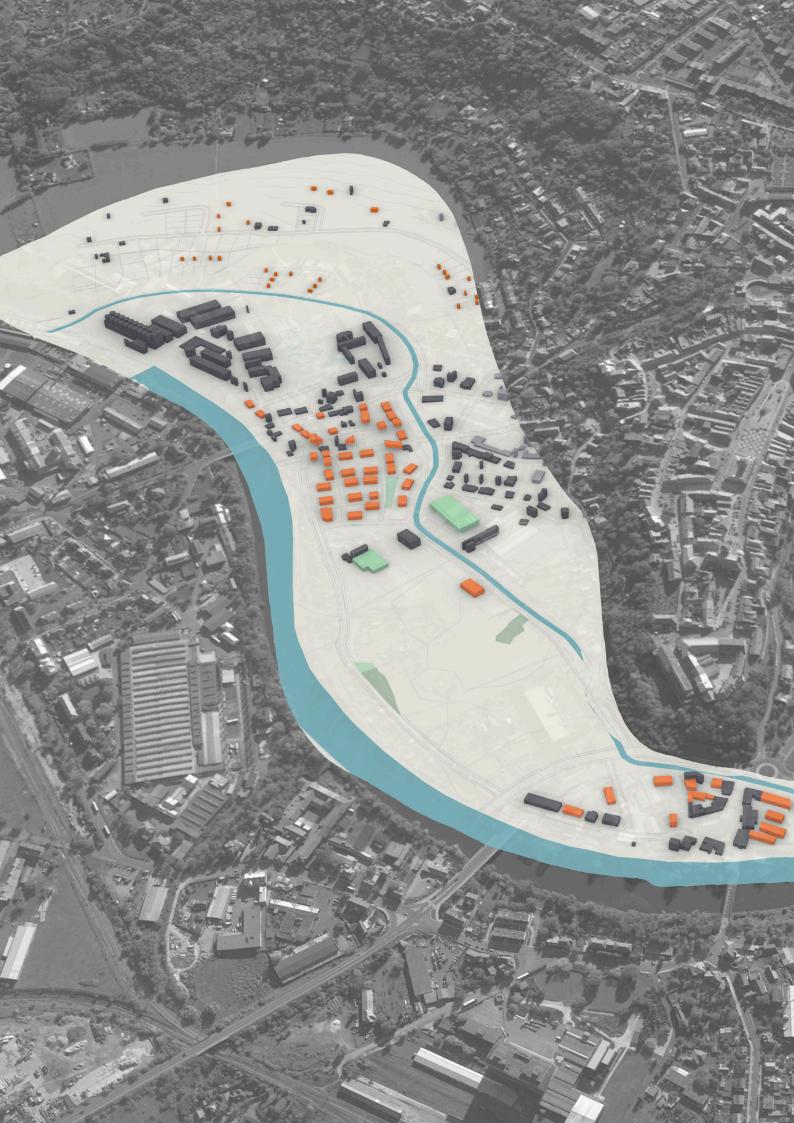




CONCLUSION

Žatec is a beautiful town with green streets, great views, a strong multicultural history, great traditions and preservation efforts of its identity.

I wanted to explore the more human and local scale of an intervention to improve its local life, I do believe this to be the best way not only to preserve Žatec's unique character but to help it evolve into a living things rather than a distant memory we are reminded of, upon seeing the chimneys of the old factories.





ŽATEC: RECLAIMING THE RIVERPLAIN **DESIGN PORTFOLIO**