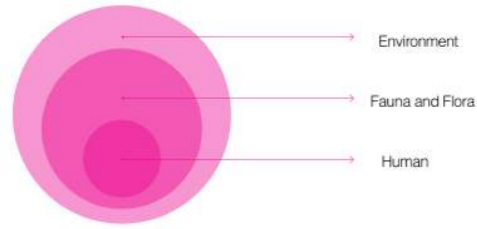


**Problem Statement**



The purpose of this project was to explore the possibilities of revealing an abandoned brownfield to the development of an urban ecological park space, to declare the environmental influence of the post-industrial field, to take the advantage of existing infrastructure, to introduce the natural remediation methods of cleaning the contaminants remained, to activate the site again not only for human outdoor activities, recreation, education, but also to create the habitats of animals, plants so as to increase the biodiversities, and to experiment the new media interaction into the public space. Based on these findings, the project proposes a master plan, sections, perspectives and the drawings which are necessary for a former coke plant and coal mining site redeveloping development, the Zeche König Ludwig Trasse in Recklinghausen, Germany.

**Design AIM**



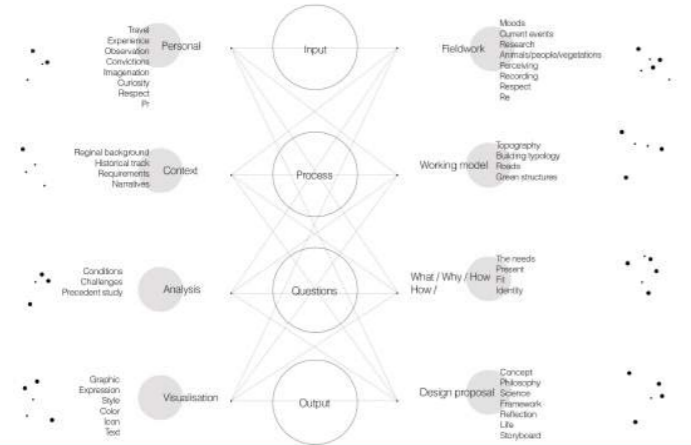
**Design Aim**

The purpose of this project was to explore the possibilities of transforming an abandoned brownfield to the development of an urban ecological park space, to declare the environmental influence of the post-industrial field, to take the advantage of existing infrastructure, to introduce the natural remediation methods of cleaning the contaminants remained, to activate the site again not only for human outdoor activities, recreation, education but also create the habitats of animals, plants so as to increase the biodiversities, and to experiment the new media interaction into the public space. Based on these findings, the project proposes a master plan, sections, perspectives and the drawings which are necessary for a former coke plant and coal mining site redeveloping development, the Zeche König Ludwig Trasse in Recklinghausen, Germany.

**Sub-problems:**

1. What are the environmental matters of former coke plant and coal mining site?
2. Which could bioremediation methods be integrated the natural process and clean up the property effectively?
3. What are the benefits of the brownfield reuse and transform it to so-called "greenfield"?

**Approach / Connected - Independent**

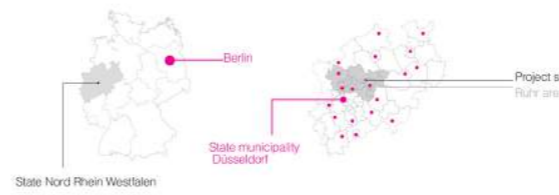


**1.0 Approach**

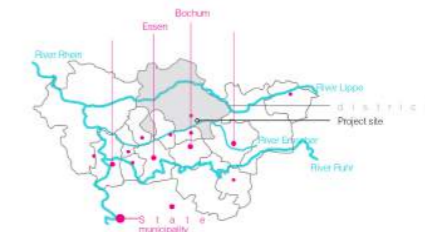
**Analysis**

**2.0 Context**

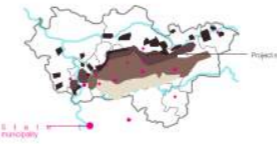
**Location\_Germany\_Nord Rhein Westfalen**



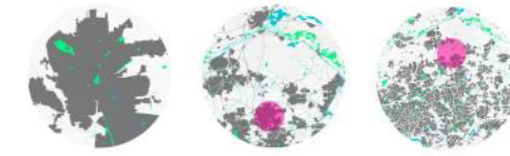
**City group in Ruhr Area**



**Ruhr area mining migration**



**Park space debate**

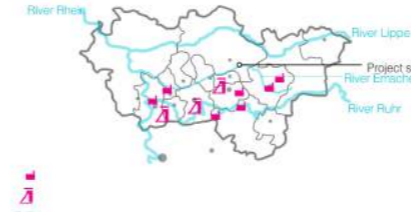


City Recklinghausen	Circle Recklinghausen	Ruhr District
Population: 114.330	Population: 617.807	Population: 1.14.330
Land area: 66.43 km²	Land area: 760.27 km²	Land area: 1.435 km²
People per sq. mi: 1721	People per sq. mi: 810	People per sq. mi: 387

**Water shift map in Ruhr area**



**Industrial culture spots in Ruhr area**



**4.0 Site Analysis**

**Contaminants Zone**



**Impeareable Surface Area**



**Industrial Heritage**



**"A Waiting Lab"**

Post-Industrial Park Design in König Ludwig Trasse  
Recklinghausen, Germany

Author: Boyuan Chen  
Supervisor: Prof.Dr. Nicole Uhrig \_ Dipl.Ing.Thomas Mielke  
Hochschule Anhalt \_ Master of Landscape Architecture\_03.2017

Country / City Germany/Bernburg

University / School Hochschule Anhalt, University of applied Sciences

Academic year 2015-2017

Title of the project A Waiting Lab

Authors B





# PERFORMATIVE NATURE

Barcelona International Landscape Architecture Biennial

September 2018 **Barcelona**

SCHOOL PRIZE

X International Landscape Architecture Biennial

Máster d'Arquitectura del Paisatge -DUOT - UPC

ETSAB- Escola Tècnica Superior

d'Arquitectura de Barcelona

Avenida Diagonal, 649 piso 5

08028 Barcelona-Spain

## TECHNICAL DOSSIER

Title of the project A Waiting Lab  
Authors Boyuan Chen  
Title of the course Masters of Landscape Architecture  
Academic year 2015-2017  
Teaching Staff Prof.Dr.Nicole Uhrig  
Department/Section/Programofbelonging Department Agriculture, Ecotrophology and Landscape Development  
University/School Hochschule Anhalt, University of Applied Sciences

Written statement, short description of the project in English, no more than 250 words

Waiting; is a longing toward to the future; a courisity for the new comming things and the border of respect. A lab, is the place for trying, testing, discovering the uncertainty. Therefore, a waiting lab which combines the desire to later and the experimenting for now. The redevelopment of the KLT diliapidated site presents the responsibility to revitalize the landscape; and offer several possibilities for people to wait, observe and explore themselves from active zone to dirt way that is in order to find themselves in both man made and natural landscape. And this project identifies the environmental concerns including fauna and floral as far as human recreation and amenities. The Idea of converting an industrial brownfield into a wild nature piece which also serves as an urban park space is proposed. More specifically, the project reveals the relations between a former coal mining site of König Ludwig Trasse and the appearing wildness. The redesign of the site aims to establish its new functions to benefit the passers-by, to offer a delightful habitat for the richness of biodiversity as well as to lead a trail for discovering the beauty of industrial nature otherwise hidden.

Since the size of the site is around 1,800,000 square meters and could not be perceived as a conservation area but an open lab for recreating different types of habitats; such as wet prairie, shrub zones, the woodland zones from the abandoned. It is also promising to regenerate a healthy and sustainable biotope to welcome the vegetation and animals to live, hunt, nest, mate, etc.

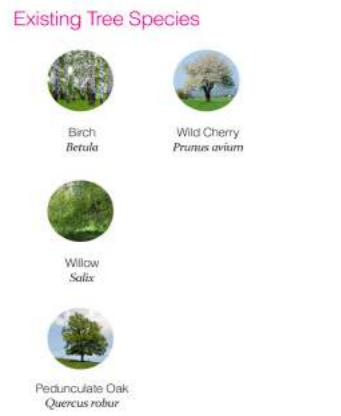
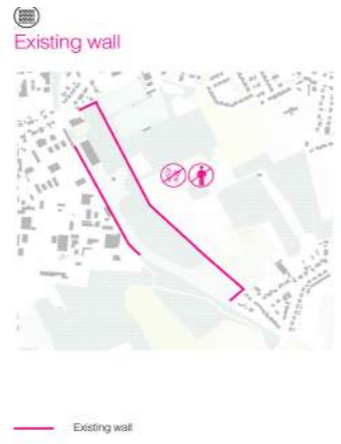
For further information

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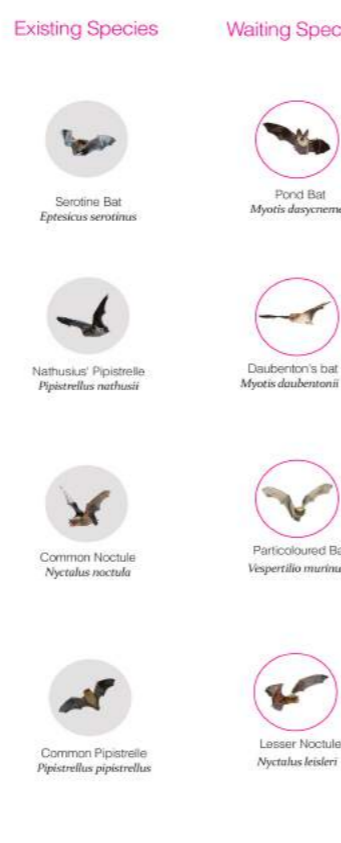
Contact via email at: [biennial.paisatge@upc.edu](mailto:biennial.paisatge@upc.edu)

Consult the web page <http://landscape.coac.net/>



Scientific Name	English Name	*BB	*GB	*RL
<i>Accipiter gentilis</i>	Northern goshawk	x		x
<i>Aegialitis caudatus</i>	Long-tailed tit		x	
<i>Ardea cinerea</i>	Grey heron		x	
<i>Buteo buteo</i>	Common buzzard	x		
<i>Carduelis carduelis</i>	European goldfinch		x	
<i>Carduelis chloris</i>	European greenfinch	x		
<i>Certhia brachyactyla</i>	Short-toed treecreeper	x		
<i>Columba oenas</i>	Great spotted woodpecker	x		
<i>Corvus monedula</i>	Western jay	x		
<i>Dendrocoptes major</i>	Great spotted woodpecker	x		
<i>Eritrichus rubecula</i>	European robin	x		
<i>Falco tinnunculus</i>	Common kestrel		x	x
<i>Fringilla coelebs</i>	Common chaffinch	x		
<i>Garrulus glandarius</i>	Eurasian jay		x	
<i>Motacilla alba</i>	White wagtail	x	x	
<i>Parus caeruleus</i>	Eurasian blue	x		
<i>Parus major</i>	Accipiter gentilis	x		
<i>Parus olustris</i>	Great Tit	x		
<i>Phylloscopus collybita</i>	Marsh tit	x		
<i>Phylloscopus trochilus</i>	Chiffchaff	x	x	
<i>Picus viridis</i>	Willow warbler	x		
<i>Prunella modularis</i>	Duncock	x		
<i>Sitta europaea</i>	Wood nuthatch		x	
<i>Sturnus vulgaris</i>	Common starling	x	x	
<i>Sylvia atricapilla</i>	Eurasian blackcap	x		
<i>Sylvia borin</i>	Garden warbler	x		
<i>Troglodytes troglodytes</i>	Eurasian wren	x		
<i>Turdus merula</i>	Common blackbird	x		
<i>Turdus philomelos</i>	Song thrush	x		

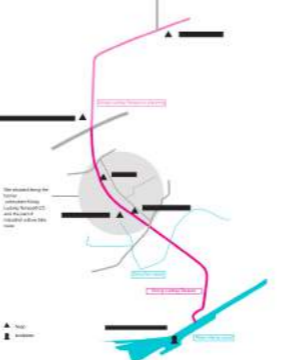
\*BB= Breeding Bird  
\*GB= Guest Bird  
\*RL= red list, \*NFW



## 3.0 Introduction



The district of Recklinghausen (also known as Vestische Kreis) is located in the north of the Ruhr region in the north-west of the state of North Rhine-Westphalia and is, with the exception of the Hanover region, the most populous in the Federal Republic. It is part of the Münster region and is a member of the Landscape Association of Westphalia-Lippe and the regional association Ruhr. The seat of the circle is the city of Recklinghausen.

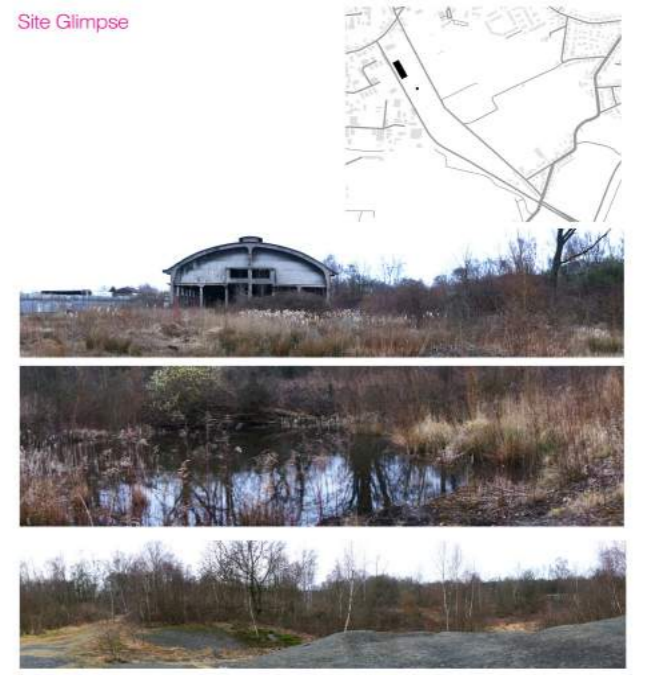


In the first half of the nineteenth century, it was discovered that the carboniferous carbon was not limited to the Essen area, but to the north. In the year 1856, the south of Recklinghausen was found in hard coal boring on trials. However, the construction of the shaft I was started in 1872 after the end of the Franco-Prussian War. In the course of the so-called Grunderboom, which encompassed all of Germany, it was now possible to obtain the capital required. After a lot of plots of land and negotiations, they began to work with the sinking works. The coal mines have emerged from the coalmine Bergigte Hennefengueck, which was drilled between 1856 and 1867. Construction. Over the harbour, coal and coke could be sold to the North Sea ports, but also material could be delivered.

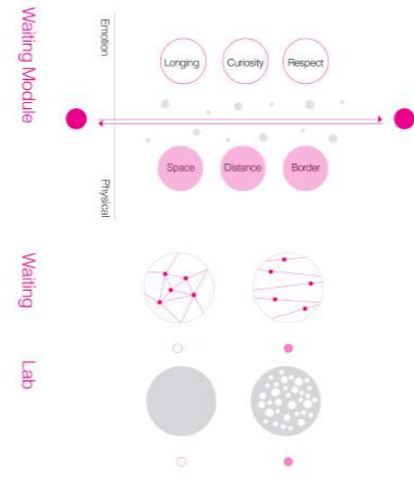
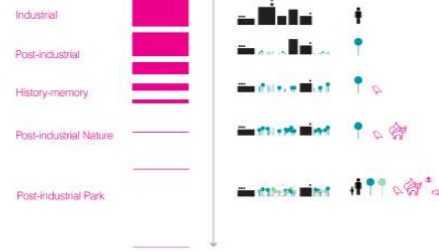


The term "landscape scar" came from Anna Storm which is an exact description of post-industrial fields so-called "brownfields" as well. It represents the pain of the past and often has an ugly appearance and even smells. The wounds continuously opened to the air as long as for being healed. However, the scar also could be seen as a hallmark of significance and a specific cue to remind people of the industrial revolution and demonstrates the laboratory of the healing process. So the landscape architects today are confronted with unforgiving environmental issues and have an opportunity to reflect the result of the overconsuming habit of the society.

This project has the power to follow the trend of the concept of industrial nature and inspire another form of treatment in underappreciated land in Ruhrgebiet, of which there are elsewhere. It brings many benefits to the quality of life in the surrounding neighbourhood, such as reduced crime, enhanced local environmental quality, activated outdoor activities, introduced wild species including animals and plants. On the other hand, artful elements will be integrated with ecology and remediation methods at the same time which relate the design. A kind of using the media such as cell phone applications which could encourage people to interact with the site rather than simply using it. Furthermore, the park intends to be a waiting lab with the passing time to offer a place for all the creatures that witness the change of selves and others.



Transforming Process



# "A Waiting Lab"

Post-Industrial Park Design in König Ludwig Trasse Recklinghausen, Germany

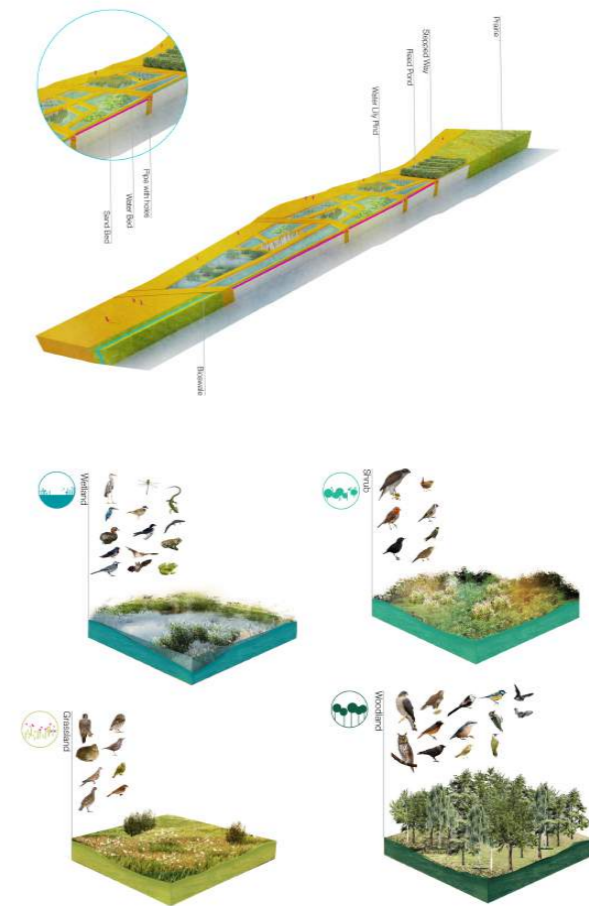
Author: Boyuan Chen  
 Supervisor: Prof. Dr. Nicole Uhrig \_ Dipl. Ing. Thomas Mielke  
 Hochschule Anhalt \_ Master of Landscape Architecture\_03.2017



# Design

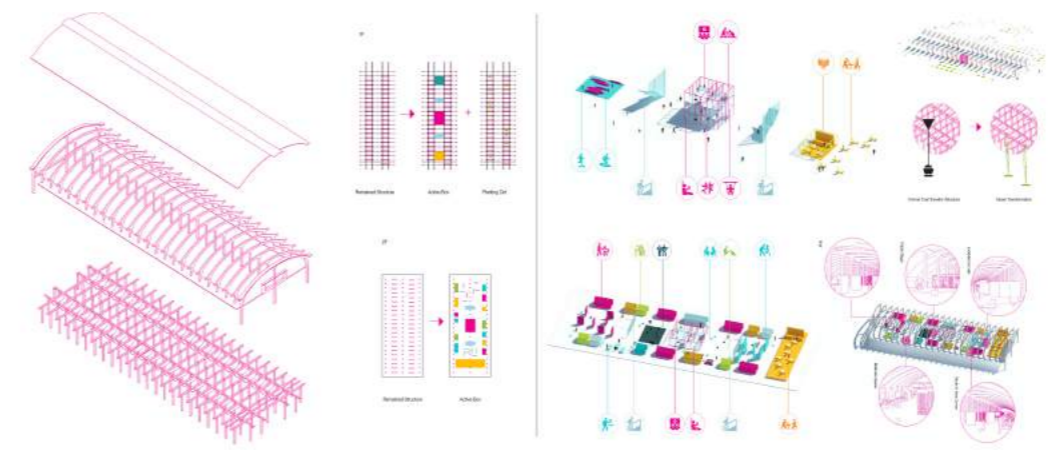
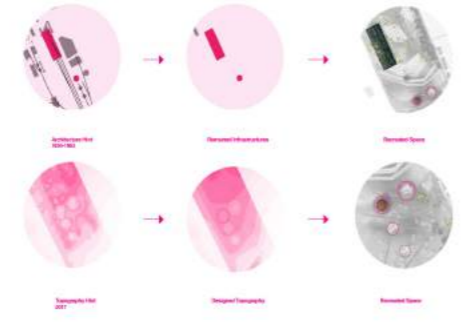
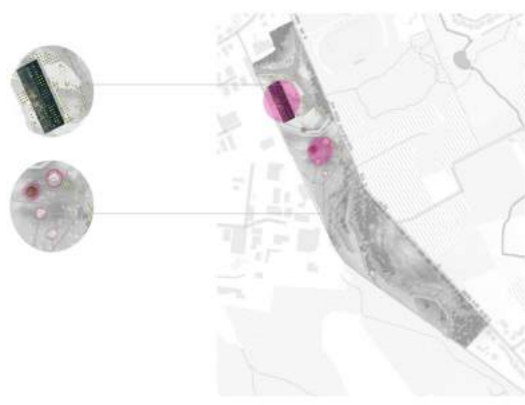


Art & Creative gallery

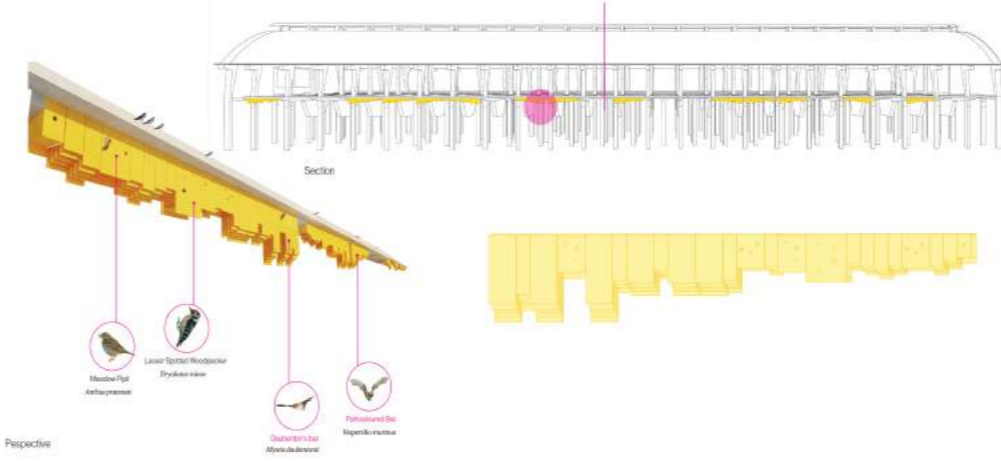
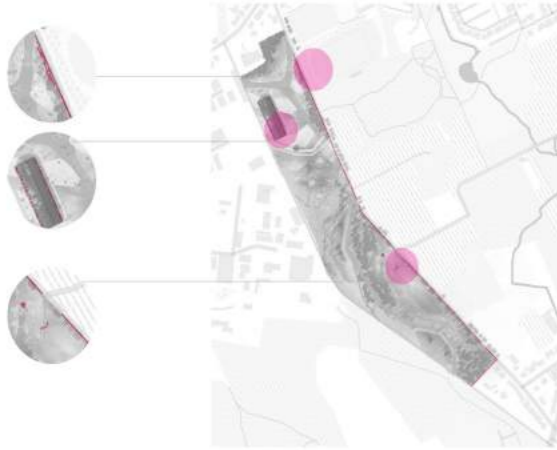




Historical Hints



Animal Aimed Design



Animal Aimed Design

