



International Student Competition

Neckar Landscape Park

Re-imagining the Productive City Region

Working Period: October 2022 - January 2023

Winning teams and finalists

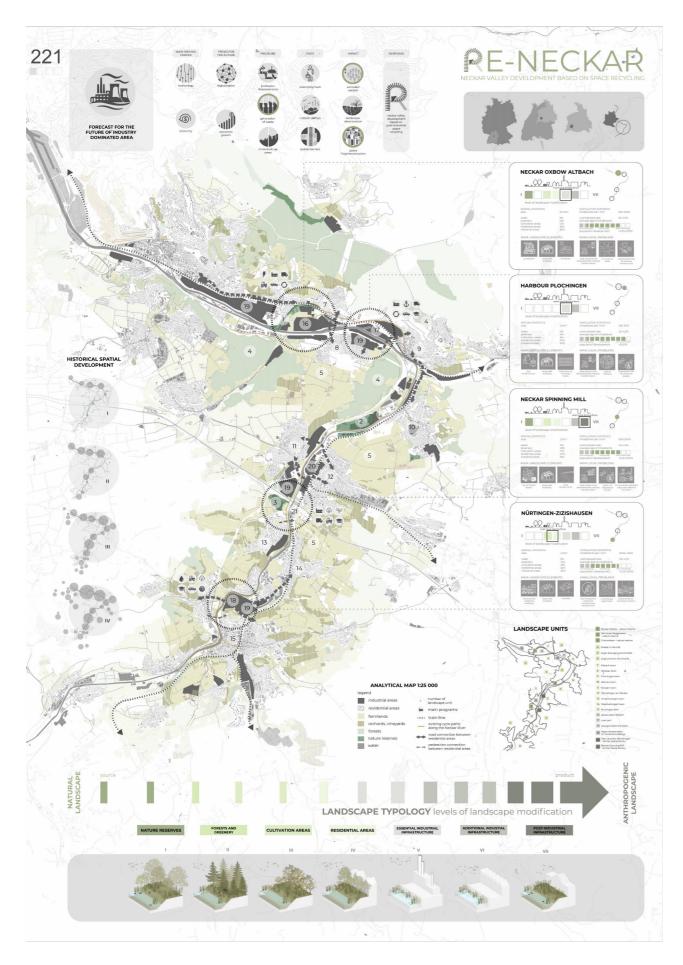












First Prize

Gdańsk University of Technology, Poland

Marta Hrycyna, Natalia Fronczek, Marta Kloch, Liudmila Matsisovich, Szymon Jackowski

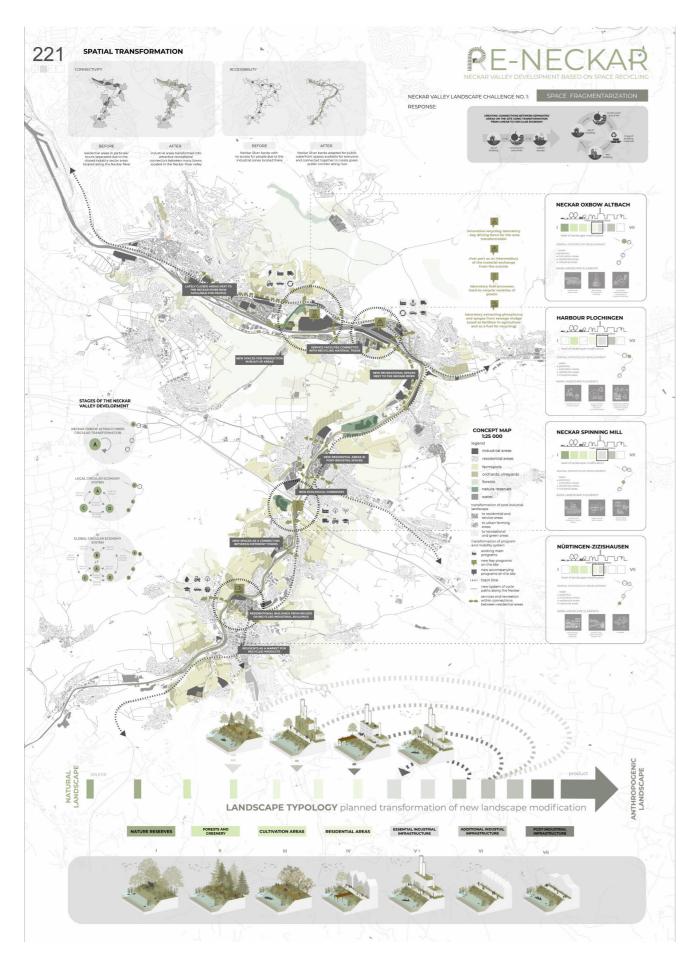
Re-Neckar. Neckar Valley redevelopment based on space recycling

Neckar is a river located in south-western Germany, going through the city of Stuttgart, but most importantly for our project it is going through cities of Altbach, Plochingen, Unterensingen and Wendlingen am Neckar and Nurtingen-Zizishausen. The whole concept of the project is to connect those cities by creating a circular linkproviding new healthy ideas for people, environment and economy.

Our idea of circular economy concerning all four areas is to create spaces for reusing non-decomposable building waste and creating new ways of using it again as a building material. First area, in which we will go into deteails later, is going to be a area of laboratories and science work. Moreover the area will be enriched with new public spaces connected to the science, with educational aspect. Second area, which is a harbour space, could be developed to become a storehouse for all the waste. The materials could be transported to the area by the train or by the river. The third area could be a part of the science process. Old manufactures could be reused as buildings for chemical and mechanical process of transforming waste. Last area is going to be expanded and developed from the reused waste.

Coming back to the island near Altbach, the idea for this area is to create laboratories and science centre from the powerplant building colmplex. In 50 years, shift to green energy is very possible. Powerplant will no longer be needed, due to new ways of creating energy. Energy could be produced from wind, sun, water, vegetation of even plastic. Our complex will have its magazine area, laboratories for scientists and science centre for educational and also fun purposes. Moreover, conference centre is giving possibilities for other people connected to science to broaden their horizons and learn about new technologies.

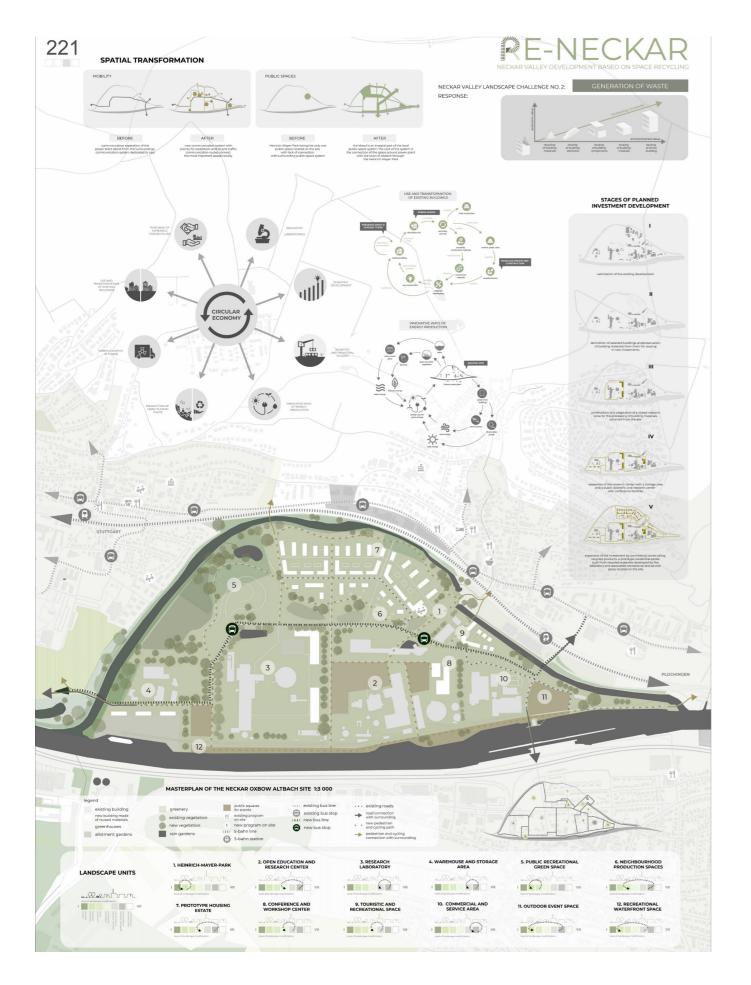
On the east of the island there is going to be an area for tourists, where they can find places for sport and cultural activities. In the place of magazine halls we would like to

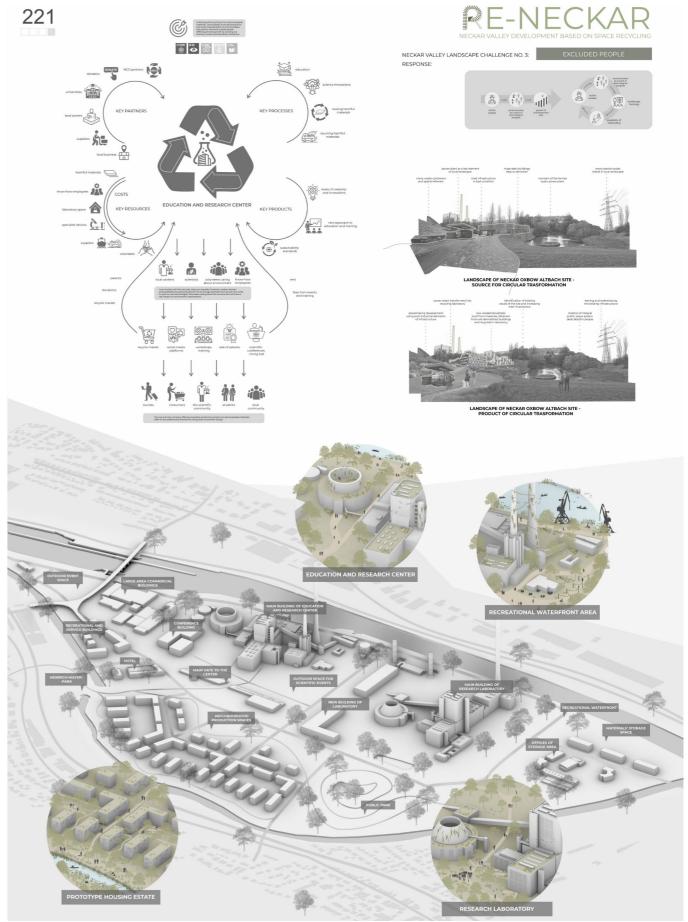


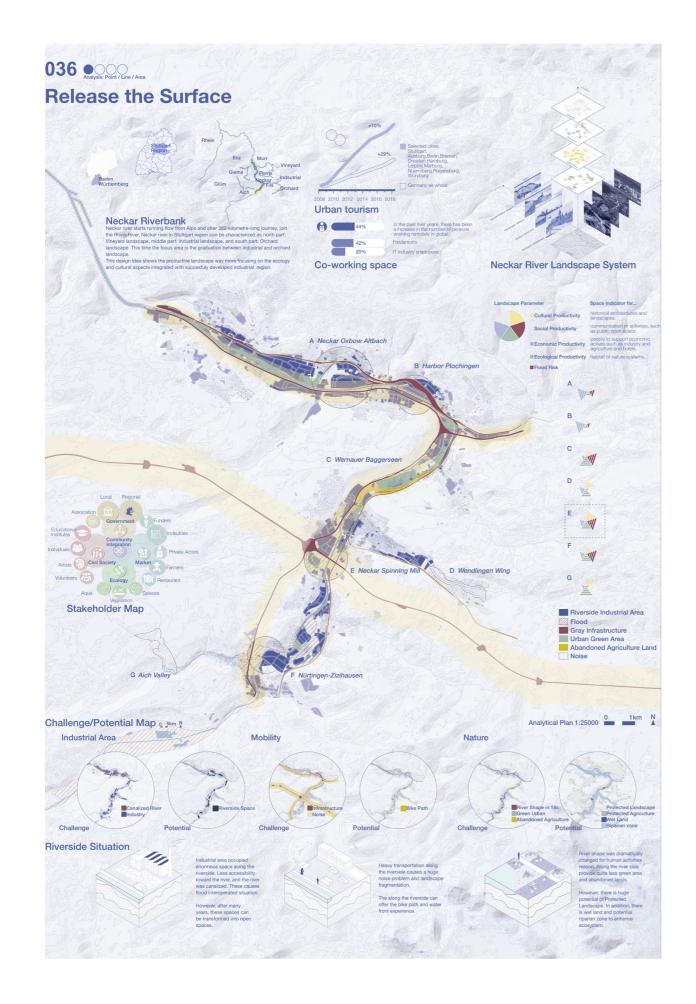
create housing buildings that can also restore canal bank. Between the buildings there are neighbourhood gardens where residents can all together take care of vegetation. This is a way to create bonds between people and place. Lastly, green farming areas and garden plots are preserved and open for people. They are connected to the Heinrich-Mayer Park.

The park and buildings create a view axis that leads to the public space in the area of science centre and longshore promenade. The idea for the business is to create new working places for workers who used to work in the powerplant. Moreover, laboratories focus on the environment and help to preserving it by searching for new ways of reusing building waste. The resources could come from re-built areas near the Neckar river and be for example: concrete, window frames or light bulbs. It is a huge opportunity for science world, environment and local people.

In conclusion, this change would make the arae of Neckar river a cradle of circular economy. The complex of laboratories and science centre will bring new life to the beautiful area of the island by Altbach. Also, it will give new opportunities for economical growth of the region.







Second Prize

HfWU Nürtingen-Geislingen HSWT Weihenstephan-Triesdorf, Germany

Yuga Tanaka

Release the surface

The Neckar river in focus area has challenge with intensive industrial land use consume(point), and heavy demand of mobility (line) which cause critical flood risk, and fragmentation of nature connection.

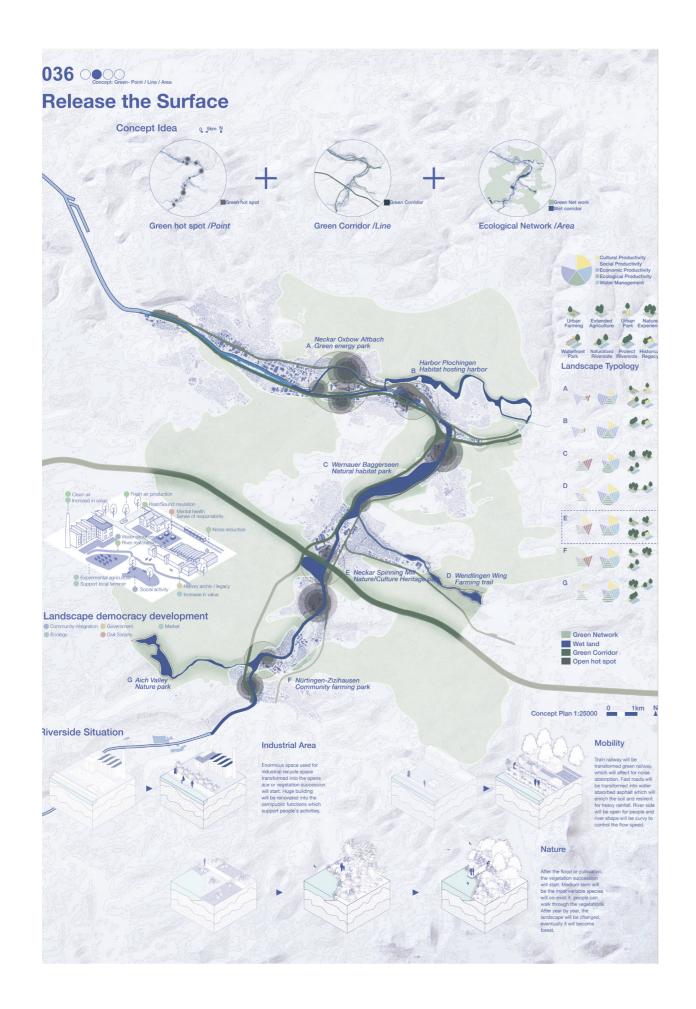
These conditions have been happened by intensive and rapid urban development. The main idea to improve this situation, is to design the landscape in a long-term process.

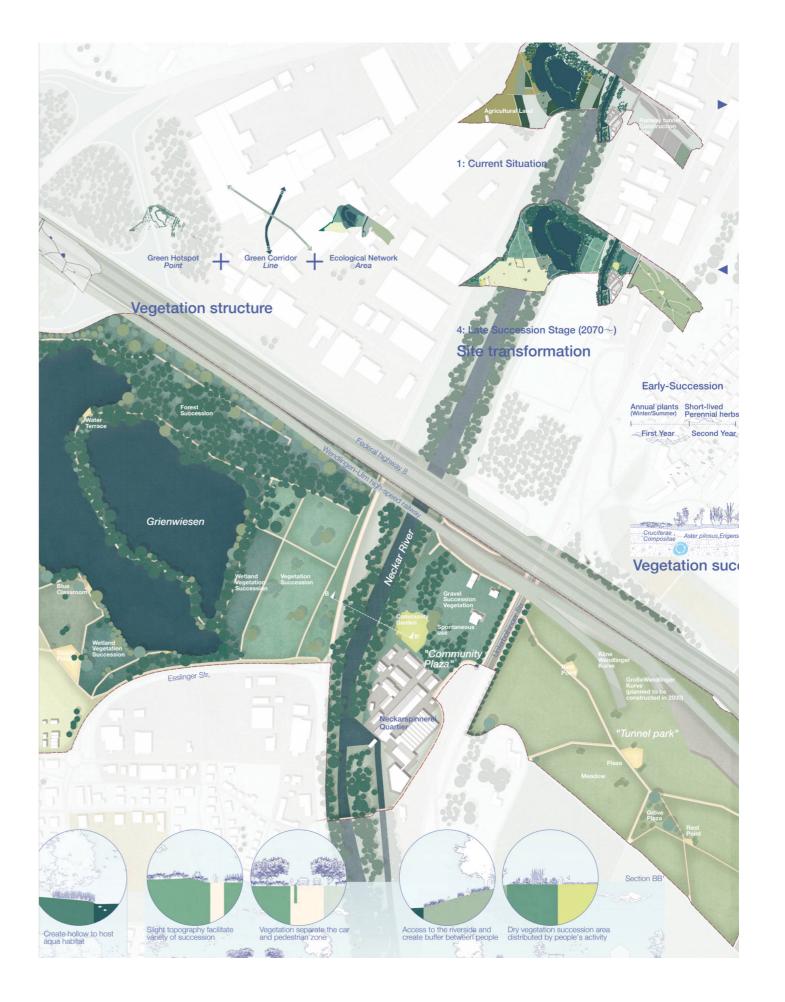
The proposal is to release the surface so that the vegetation succession start and grow which provide for spices ecology and people recreational and nature experience. To achieve the strong productivity of Ecology / Cultural / Economy/ Social/ Economic/ Water management, we propose the three main green structure which is green hotspot, green corridor, and landscape typology to animate the identity of landscape and livable space for all living things.

In detail focus area is named as Neckarspinnerei Landscape Park, which people can observe the variety type of vegetation succession, depending on soil, sunlight, use of function, that is nature disturbance and human-caused disturbance. The landscape in growing in time will increase people's sense of place and habitat productivity.

Neckarspinerrei, historical industrial architecture, is the core platform for community activities for individuals, government, economic sectors. While the vegetation succession process, community interaction will develop together step by step. The community-landscape interaction though the process is the strategy keeping the sense of place responsibility.

The moment the surface is released, the landscape dynamics will start developing. The landscape in process will enhance the landscape productivity in this Neckar river system.





036 OO Landscape Interaction **Release the Surface** To keep landscape maintenance and to make actions developing landscape architecture, community interaction is necessary. This section shows how the community interact with Neckarspinnerei park. In this project, the democratic landscape is defined as free accessibility to the landscape for all living things. tracteristics of this Neckarspinnerei Park are the cultural landmark: historical ture Neckarspinnerei Quartier, and the ecological landmark of Grienwiesen, the between three administrative authorty bounadries, the vegetation succession. (ii) Community Garden THE PURCHASES ii Blue-Green Class

i Ecological Trail

Exhibition

Short stay

Co-working space

Interaction of

Ecological

landscape and community

Learning

Rest point

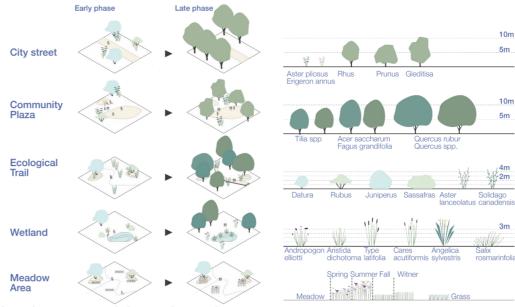
Picnic table/area



Meadow

Dog run

Conifer tree



Landscape spacial transformation



Integration and Interaction of community and landscape devolopment









Neckarspinnerei Community Market





123 SPINNING IDEAS FURTHER at NECKAR LANDSCAPE PARK RESIDENCE LANDSCAPE MOBILITY THREE SCENARIOS - ONE SPACE **GUIDELINES**

Third Prize

Hochschule Geisenheim University, Germany

Anke Otten, Konstantin Schmitt, Jonas Börner, Saskia Quint

Spinnng Ideas Further

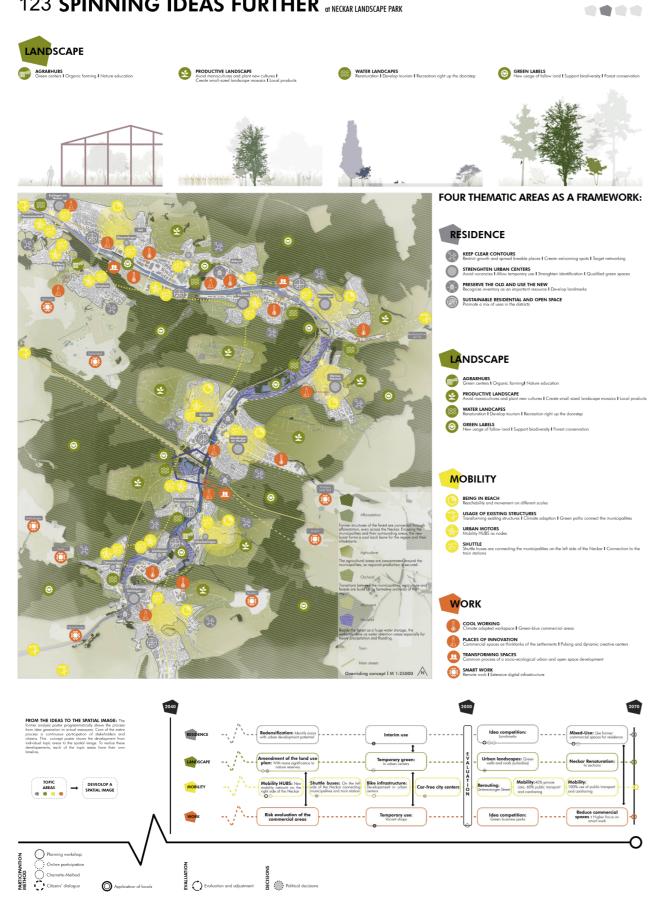
In the period up to 2070, cities will face particular challenges. In analyzing the planning area, the subjects of residence, landscape, mobility and work emerged as key aspects with immense development potential. All of these are in conflict with the impacts of climate change.

Through the concept 'spinning ideas further' it is possible to strengthen the identity of the neighborhoods. Central is a quick access to green space, especially for the green-blue areas around the Neckar River. Here, a great potential for combining ecosystem services, flood prevention measures and local recreation becomes apparent. In addition, the renaturalized forests as well as the traditional vineyards and orchards are increasing. In the mobility sector, the existing infrastructure will be upgraded, especially for pedestrians, cyclists and public transport. Due to digitalization, many people work in flexible places, in mixed-use neighborhoods.

Guidelines are needed to achieve these goals. These include monitoring and evaluating change, giving time to change and setting goals, creating strong communities and shared value.

Wendlingen's old Cotton Mill area in particular becomes a field of experimentation and a future best practice model illustrating the points mentioned above. Through temporary projects, new developments can be tested together with citizens and expert planners and incorporated into the spatial image. By preserving the factory buildings, an important contribution is made to the preservation of the industrial and cultural heritage. The urban reorganization creates a self-regulating social structure within the dense existing development, which can pursue various uses and activities

123 SPINNING IDEAS FURTHER of NECKAR LANDSCAPE PARK

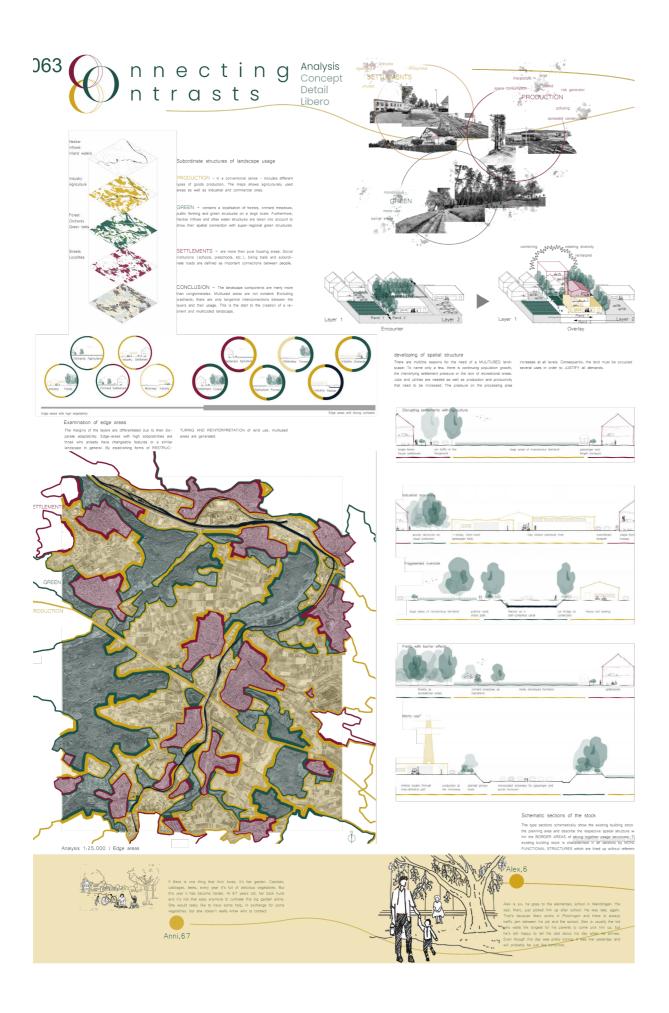


123 SPINNING IDEAS FURTHER OT NECKAR LANDSCAPE PARK



††† EVAPORATION





Honorable Mention

HSWT Weihenstephan-Triesdorf, Germany

Veronika Ort, Philippine Denies, Rebekka Heeg, Melanie Hofer, Felicia Wasmeier

Connecting Contrasts

In the analysis, three different types of usages come together: green, production and settlements. They do not cross and barely overlap. The concept starts on the margin of functional spaces and offers a solution to the prospective surface pressure caused by space occupancy.

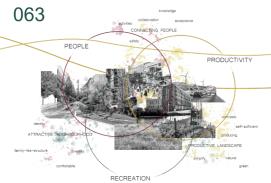
Currently, different limits have a varying adaptation tolerance and therefore differently-sized potential for overlapping uses. The idea is that contrasting usages generate interesting spaces. Since functions overlap, it's possible to connect further usage types unconventionally.

Connecting Contrasts are being joint.

At first the edges are viewed in general sections and then equipped with possible changes in the sense of superimposition. For this, a toolbox is providing elements, which can be applied to the edge-areas. As a longterm development, it has to adapt to current aspects. There are three steps to it: Over the next 10 years, toolbox-elements are being tested and strengthened in five pilot projects. In 20-years time, additional intersections are being initiated in appropriate spots. The superimposition is being developed and individualised.

50 years from now, the development is spreading into the landscape. The concept is carried by the general public in a longterm participation concept. Spacial, it is being embedded in the Neckar-festival, which will establish the "bahn.brechend" festival in the region later on.

On festival grounds between the track area a site of participation is being created in order to celebrate the diversity and connection of the landscape elements. Simultaneously, it is the epicentre for every superimposition and the connecting axis of the region.



PRODUCTIVITY — This layer expands to include all types of productivity, it no longer designates just apriculture and industry, meaning a pure production of goods, but occupies parts of the settlement, education and recreation landscape. This includes, among others, meregy production, EUCLATION and research, agriculture, CREATIVITY, industry, infellectual achievements, production at a broader level and classical trade encourse the same volume.

Since these functions overlap, it becomes possible for more areas to be taken into RECREATIONAL USE and to be linked unconventionally to production areas.

CONNECTING CONTRASTS is based on the overlay allegely competing usage structures. Arready a current trend of lar expension in bourger and production means is to be observed. The concept renterprets the effect of land consumption. Therefore, existing areas are being renterprets the effect of land consumption. Therefore, existing areas are being renterpreted in terms of their USAGE STRUCTURA. The key to the speakl streeter of the concept is the BORDER AREA. Areas, that meet and define the translation of usage bottoms to more

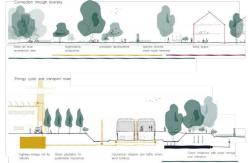
HUMAN — The focus lies on the human being as an INDIVI-DUAL. The needs regarding everyday life will be adapted to future requirements and circumstances.

RECREATION - Green spaces as RECOVERY SPACES are made ACCESSIBLE for people and are used in a variety of ways. This also includes unconventional areas, such as newly created intermediate areas of felicis.

These places, due to their different usage claims, provide space will a level of DVERSITY that makes then lively and inferesting. According to the title. Connecting Contrasts a place, where Collinary meet and IOD/INTV emerges, is developed. The vision is to one accessible, multiple space specified spaces that followed in vision is to one accessible, multiple spaces accessible, multiple an inverved in elevating an exciting, appealing landrage in the Nector region. Report enabled to live at the same soot where they unrised and work.



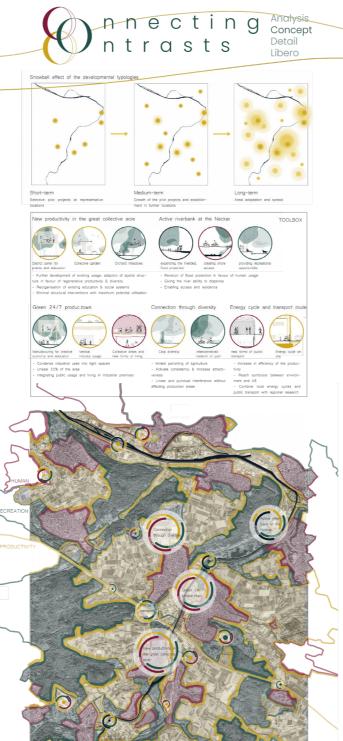




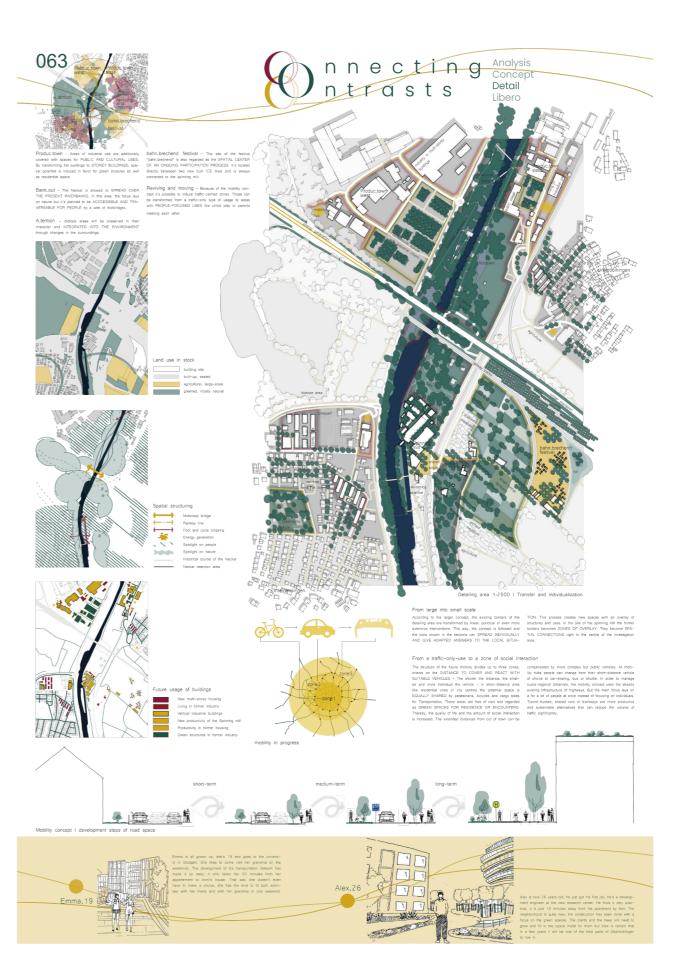
Schematic sections of the development typolog

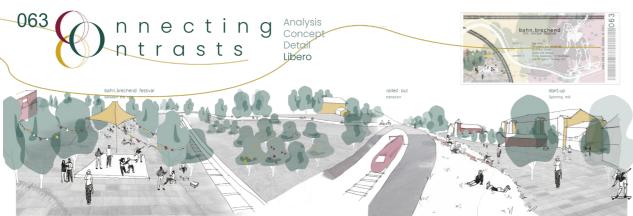
Based on selected locations, PRINCIPILES OF OVERLAPPING USA-GE are explained. These types demonstrate the transformation of encas, which CONNECT me layers meeting each other and enable vertaille use. They represent the functions that are superimposed of the contraction of the c

 the sections are INDIVIDUALIZED during the implementation deif pending on the situation and adapted to the places. An exemplary application of this construction kit is shown by the following design of the detailing area.











Punctual overlay of the edge areas



Open-Space-Programme Spinning Mill and Festival

Due to the building site there is no stock to be considered at

Iliding. Sittle there is no stock to be considered at state of fact the connect is designed for dealing with settled the place is dealt with a different approach clinic mass well as the spatial studies readowly, it is imgraphically control of the participation is emphasized clinic mass well as the spatial studies readowly, it is imgraphically control in e. John. Directord? Festival.

he spinning mill represents the centre of our new

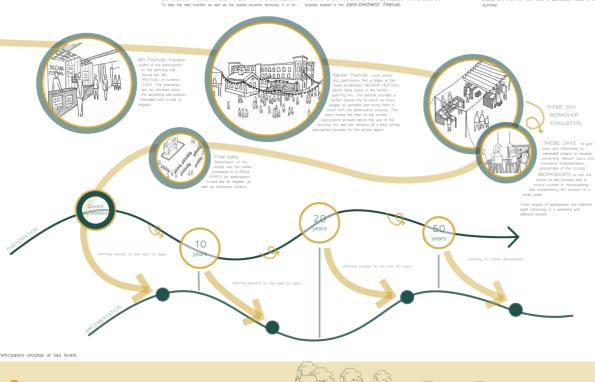
productivity — versite use with different functions generates RESURDEC AND VARIETY, by conforming offerent types of professions – just like science, culture and are – in the new-jub buil offices, we give them space to FEEL INSPREED and to benefit from each other. Buildings in the north of housing sease in combination with promisedes story literate and unique green structures correct the new productivity with hearings life and in-creations use, in its functions and established festable location with a correction list in its functions and settlement festable locations with a correction list of the SEAN_RECORDIO festals. The former control spring will become as QUIDILIZER of commonster ground development and a hub for long-term genicoption as a diving force for concept impremisation.

emocratic landscape design - In the detailing area at a Spinning mill, participation is started on a small scale during to IBA and future participation is spatially located in the bahn.

On a large scale, PARTIZIPATION states with the transfer of the overstriving corcept to the small scale. The desemblation of the concept with the further location of the cuts and their individual adaptation to the spaces happens through the oliteris on site. People ecognitive posterials on their own docestips and are encouraged to implement the proposed measures to equivalent places in the summericial.

The desired participatory output thus lies concretely in two things: Further, SELF-DESIGNED INITIAL POINTS of the concept idea, as well as suggestions for locally appropriate INDIVIDUALIZATION

To keep participation going, CONTROL MECHANISMS constantly record how well citizens are still involved in the transformation





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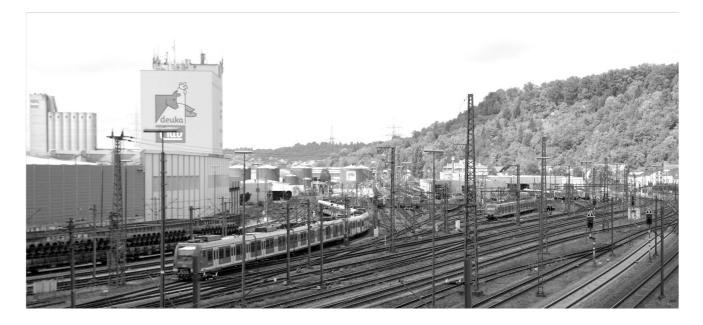
The following 7 projects reached the final evaluation round. This round was already at a significantly high quality level.

In total, we received 52 valid proposals out of which 25 were considered in the second evaluation round.

We aim at presenting all projects at least digitally and in different formats on site during the IBA'27 Festival and the Landscape Forum Stuttgart Region.

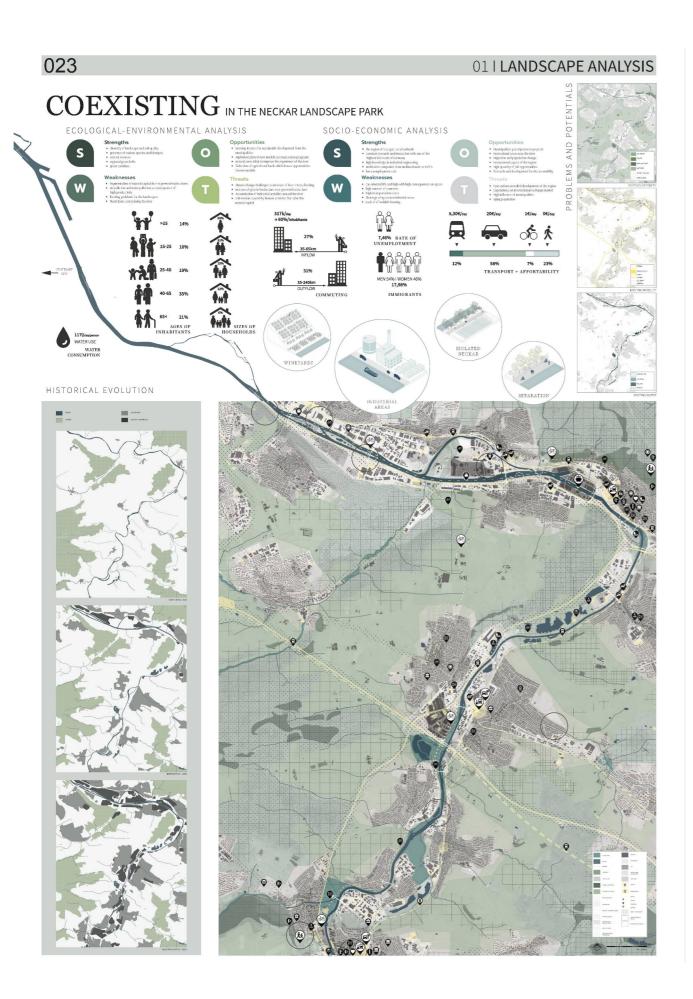
We will make all projects available online!











La Sapienza University Rome, Italy

Judith Leppert, ERASMUS Student University of Stuttgart, DE
Natacha Englebergt, ERASMUS Student ULB Brussels, BE
Clara Christiaens, ERASMUS Student ULB Brussels, BE

Stitching Together

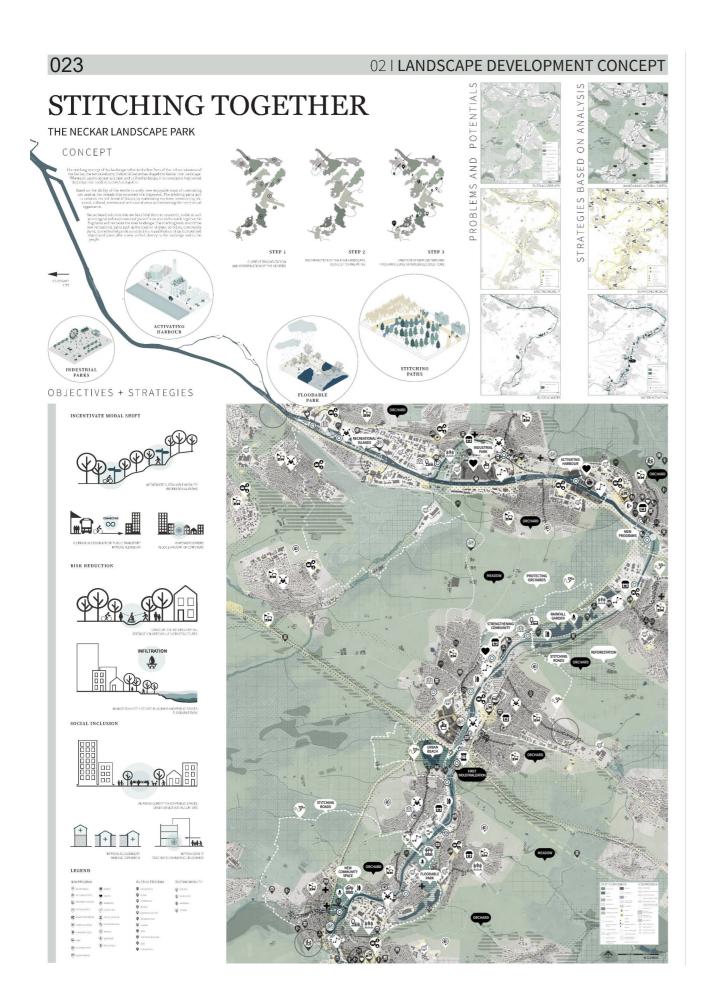
The stitching concept of the landscape refers to the first form of the industrialization of the Neckar, the textile industry. Industrialization has shaped the Neckar river landscape. Whereas it used to appear as a calm and unified landscape, it is nowadays a fragmented landscape that needs to be stitched together. In addition to the fast industrialization, the inhabitants of the region are facing other barriers such as heavy commuting roads and railways preventing them to connect. The integration's problem is a real challenge the Stuttgart region is facing.

The proposed revitalization process starts with the identification of the centers or potential centers of the fragments. Based on the ability of the textile to unify, new enjoyable ways of commuting are used as the threads that reconnect the fragments by linking their centers.

The stitching paths aim to enhance the red thread of history by reactivating the river, reconnecting historical, cultural, recreational and natural areas and enhancing the river's initial appearance. The creation of a friendly environment for pedestrians and cyclists combined with a developed public transport network aim to incentivize a transition to low mobility. The stitching mobility network aims to reconcile the isolated communities and landscapes.

New functions punctuate the stitching network and requalify the centers. Nature based solutions that are beneficial from an economic, social as well as ecological and environmental point of view are used to stitch together the fragments and revitalize the river landscape. The stitching tools around the new recreational paths help fighting climate change while offering a new unified identity to the landscape and to the people.

The green infrastructure plan includes infiltration areas, carbon forests, floodable parks, renewable energy zones,... Urban beaches and floodable parks ensure the protection of





023

04 | NEW LANDSCAPE SYSTEM MODEL

STITCHING TOGETHER

THE NECKAR LANDSCAPE PARK

NEW CONNECTING INTERACTIVE PROGRAMS















NEW DIFFUSE NETWORK

the region against flood. Green areas are stitched together thanks to green corridors so that grey infrastructure is also a mean of connection. Those sustainable solutions also benefit the well-being of the inhabitants. It allows them to experience their landscape by offering green recreational areas, community parks, meeting squares, ...

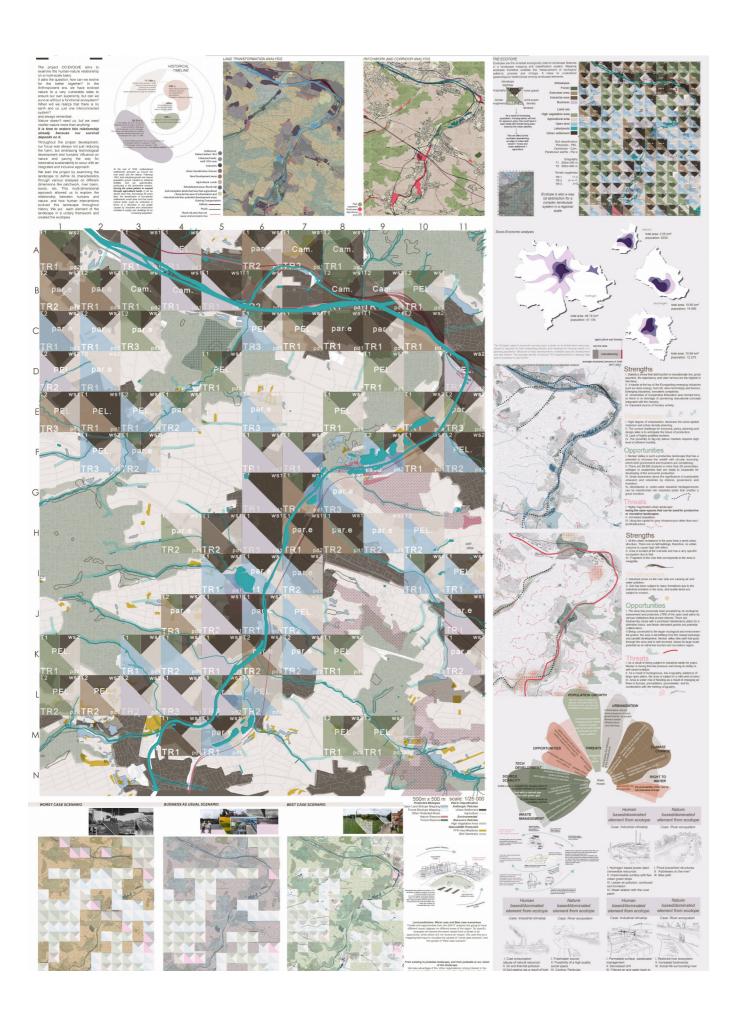
The neckar cotton mill area, that gave birth to industrial activities and the fragmentation can also be the initiator of a unified pleasant sustainable future. The proposal for the neckar cotton mill tends to demonstrate the potential of the neckar landscape. A more self-sufficient neighborhood based on circular metabolism is created.

Using water and sun energy, the neighborhood is energetically independent. Food and materials circularity take place in the cotton mill areas. The coexistence of start-up and coworking areas with housings and youth residences allow knowledge sharing that takes place in the form of workshops and do-it-yourself ateliers. Like stitching a spider's web, every program created in the cotton mill echoes in the surrounded fragments.

A connected network is created.

The neckar seam is the final stitch of the landscape. It works in direct relation with the river and its surroundings. While the river can vary in size, the walkable seam still allows direct communication between the communities. It creates passage. The river and its potential are enhanced by renaturalizing, reconnecting and redeveloping interactions.

Our proposition aims to be the start of a resilient future that promotes sustainability, growth, culture and social development to create a stronger bond between all the actors and the landscape



La Sapienza University Rome, Italy

Nur Sultan Karaman, Lamiya Garayeva, Haydar Akyol

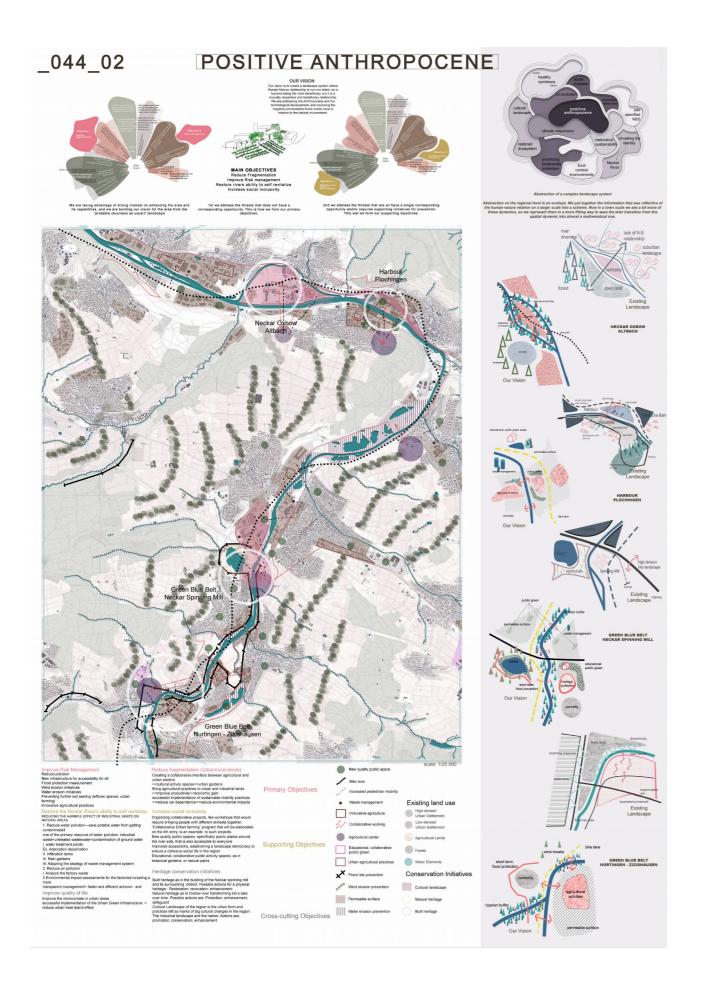
Positive Anthropocene

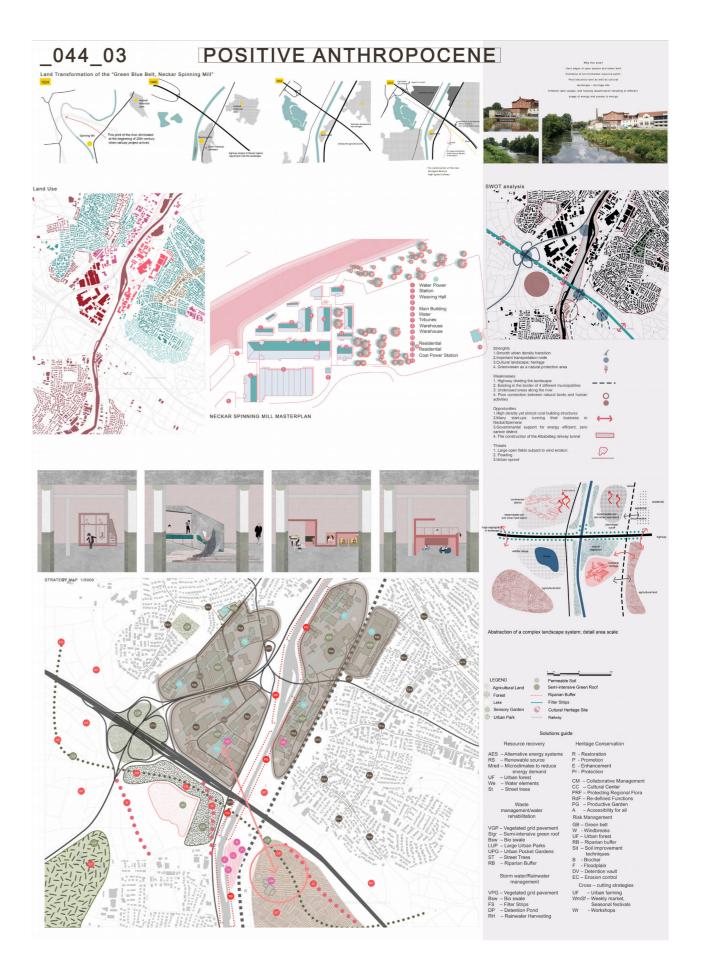
The project aims to examine the human-nature relationship on a multi-scale basis. It asks the question, how can we evolve for the better together? In the Anthropocene era, we have transformed nature into a very vulnerable state to ensure our own superiority, but can we survive without a functional ecosystem? There is no earth and us, just one interconnected system. And we should always remember that nature doesn't need us, but we need mother nature more than anything.

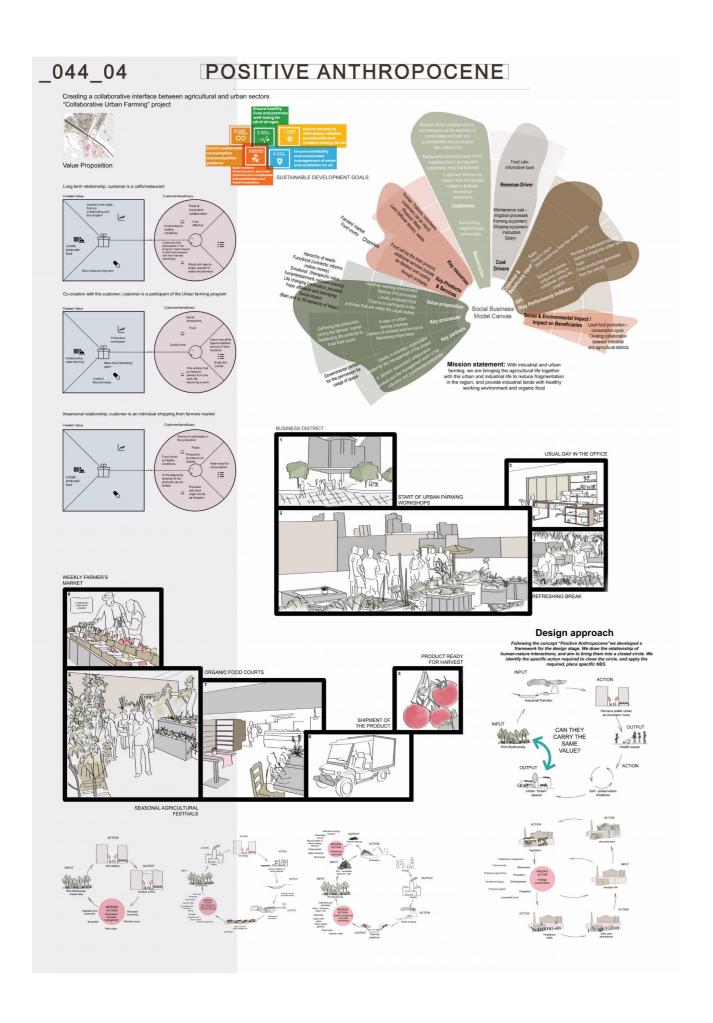
Throughout the project development, our focus was always on not just reducing the harm, but paving the way for restorative sustainability to occur with an integrated and inclusive approach. We start the project by examining the landscape to define its characteristics through various analyses on different dimensions like patchwork, river basin, swots, etc.

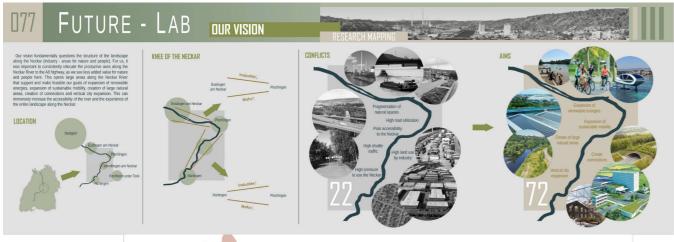
This multi-dimensional approach allowed us to explore the relationship between humans and nature, and how human interventions evolved this landscape throughout history. We put each element of the landscape in a unitary framework and we created the ecotopes. Afterward, we move into different scales of this relationship to create a system where we can see the "missing" aspects of these relationships that prevent them from being circular; mutually beneficial.

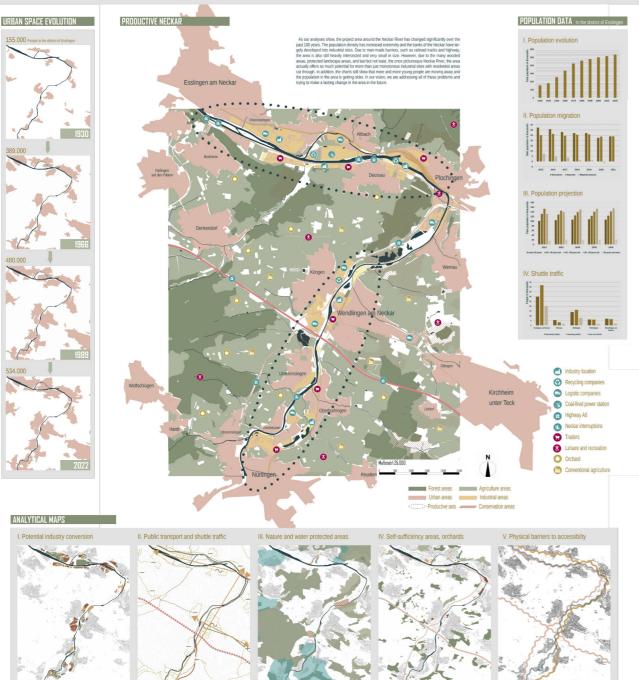
From this point, we can compose a site specific NBS (nature-based solutions) to implement in the landscape to generate the "missing aspect". Additionally, we take advantage of the previously approved initiatives on the landscape and build our vision from a probable landscape with the additional cross-cutting strategies that would support the existing plans for the area











HSWT Weihenstephan-Triesdorf

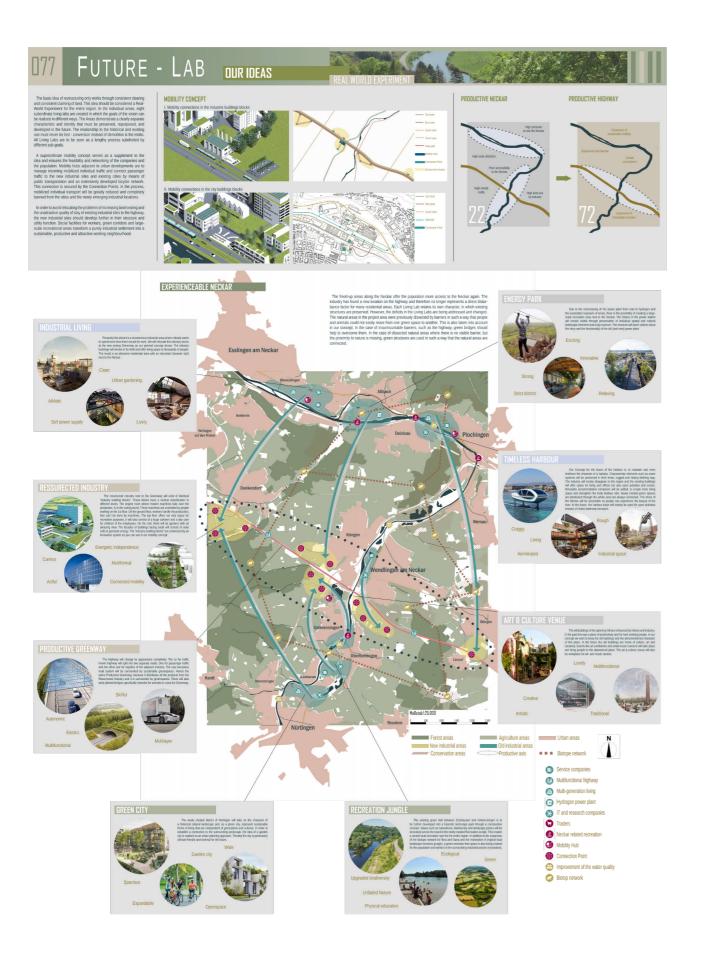
Maximilian Kaufmann, Jakob Brause, Moritz Bader, Sebastian Fischer, Florian Berjamin

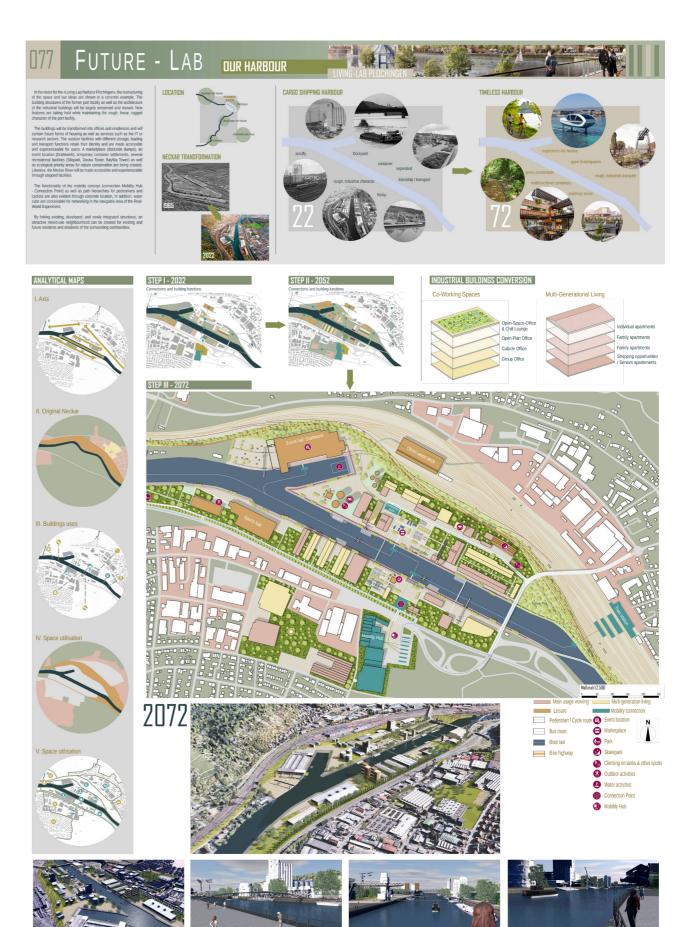
Future Lab

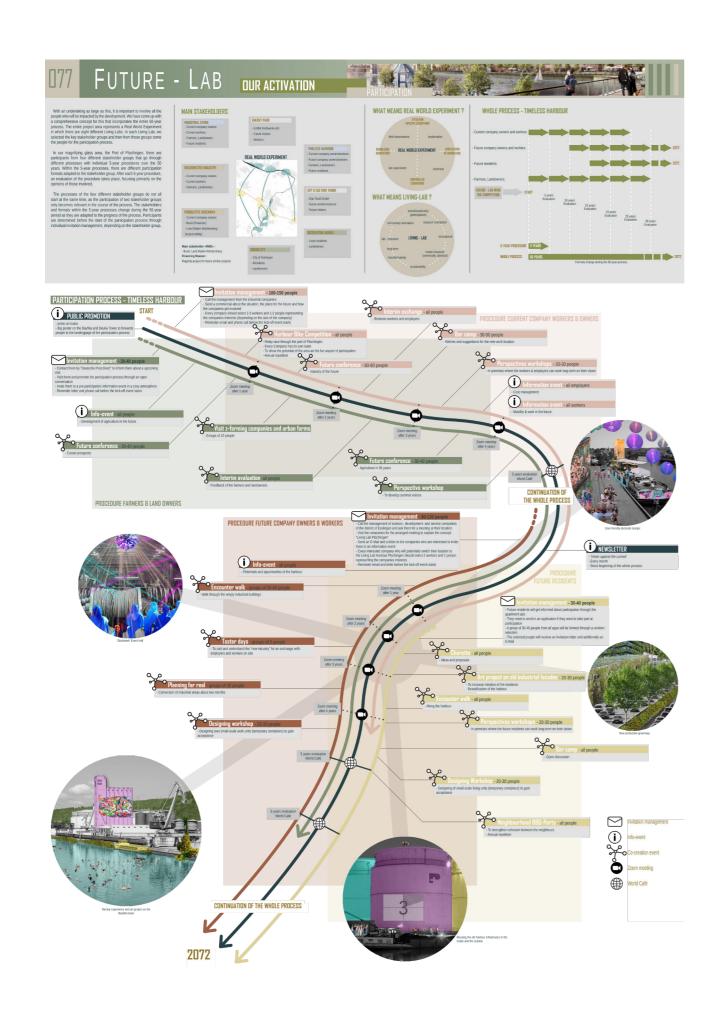
Our vision fundamentally questions the structure of the landscape along the Neckar (industry - areas for nature and people) in order to minimize the ever-increasing pressure on the Neckar. For us, it was important to relocate the productive axes along the Neckar River that had emerged from the analysis by consistently clearing and consequently claiming land and relocating them to the A8 highway.

The primary goals are to increase the accessibility of the Neckar River, to contain motorized individual traffic, and to encourage vertical expansion of cities. This vision should be viewed as a Real World Experiment for the entire region. In the individual areas, eight subordinate Living Labs (our ideas) are thus created, in which the goals of the vision can be realized in different ways. In the process, the vacated buildings are to be made attractive for future user groups through conversion, which is shown in detailon poster 3 for the Hafen magnifying glass area (our harbour).

The current character and identity of the respective loupe areas should be entirely preserved and further developed - made fit for the future. The entire Real Labor is a lengthy process that must be financially subsidized by higher-level partners. However, the people of the region are to be involved in the project primarily through a participation process tailored to the Living Labs in order to be able to contribute ideas and createacceptance as well as motivation for the restructuring (our activation)



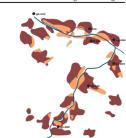




Productive mobility Sustainable thoughts about future









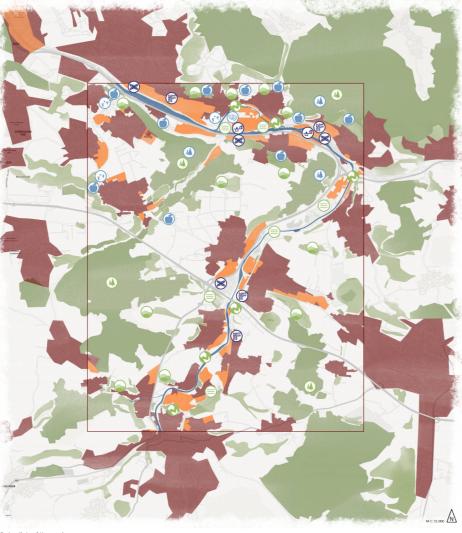






















Final Evaluation Round

HSWT Weihenstephan-Triesdorf

Dominik Zitzmann, Sebastian Heindl, Jakob Neef, Korbinian Nickl, Tobias Pauleit

Productive Mobility

The greater Stuttgart area is characterized by a densely developed road and rail infrastructure. Due to the topography, the traffic roads are often located directly on the Neckar. The concept includes a comprehensive restructuring of traffic. A route is to be built along the Neckar, which will directly connect towns and local recreation areas. They are used for individual traffic and are driven at a lower speed of up to a maximum of 30 km/h. Goods will only be delivered to four planned logistics centers. From here, the goods are distributed autonomously to all consumers with small vehicles, so that heavy traffic does not have to drive to settlements. In the future, traffic will be autonomous, more efficient and space-saving. The street areas can be smaller and a larger part of the parking spaces will be eliminated. A strong gain in area can therefore be assumed.

Industrial and commercial areas are also often located directly on the Neckar.

Therefore, heavy industry and disruptive trades should be combined in purely industrial areas as far as possible away from settlements and the course of the river.

Some trades, such as logistics companies, will also no longer be necessary due to the logistics centers. The logistics centers function as central warehouses for all goods. Logistics service provider ensures that the goods are distributed to all consumers.

Concept blocks









3. Logistic centers

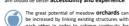




The appearance of the landscape will also be improved through the expansion of the existing











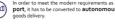




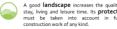








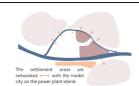


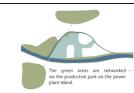


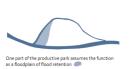




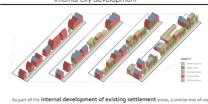


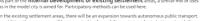








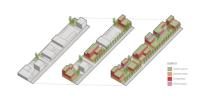






















Elements for future mobility

1. Mobility route





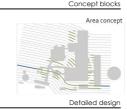


Productive mobility Sustainable thoughts about future







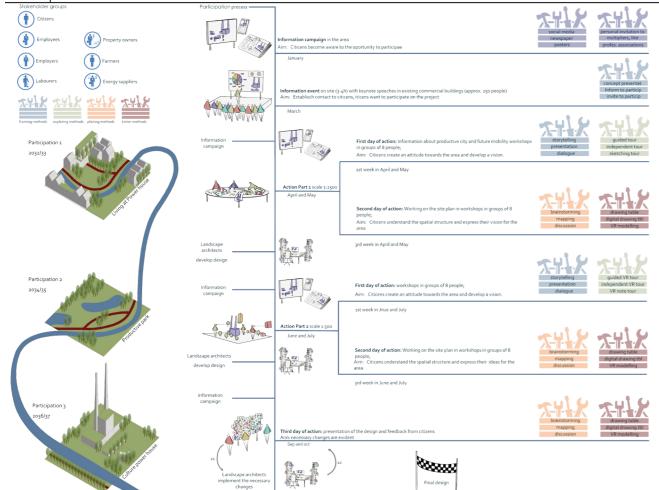








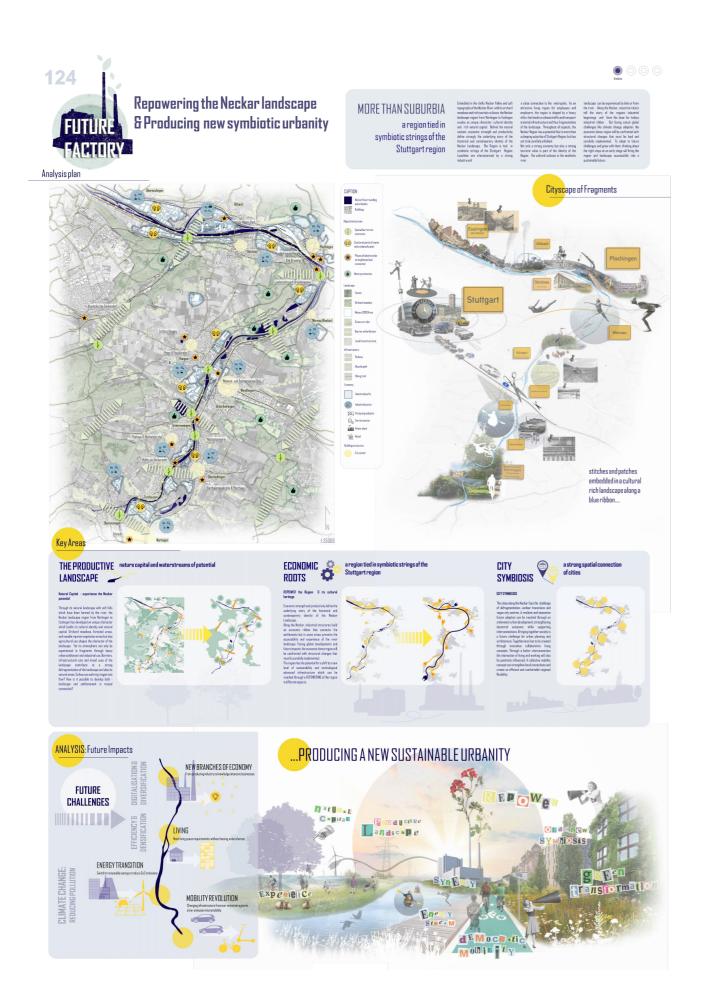
Participation



The restructuring of the commercial areas also ensures a large gain in space within towns and along the Neckar.

Within the framework of inner development and densification, a mix of uses is ensured in the settlement areas. Multifunctionality is achieved by locating jobs, (energy) production, housing, leisure activities and local recreation close to each other. The number of commuters is falling, commutes are becoming shorter and the quality of life is improving. Autonomous public transport ensures good and efficient accessibility. The areas gained through the restructuring of traffic and trade are used for densification, greening and buildings for modern living and working.

On the power plant island, a model city will be created in the space gained, which will demonstrate the mixing of the most diverse forms of use, as well as a modern way of living. The model city serves as a model for internal development. The layout of the model city and the inner development of existing settlement areas reflect a modern understanding of a sustainable and productive city



Hochschule Geisenheim University

Annika Jeschek, Anahita Hartmann, Kiara Pape, Michael Senck

Future Factory

Our concept of Future Factory – metaphorically referring to the industrial identity of the region - considers the landscape as a complex and dynamic product of diverse processes, that are intertwined like gears in a factory. Central gears that fuel and shape the landscape are not only its ecological capital, but also the community of the urban population, its economic capital, and the cultural heritage.

The Repowering of the Region can only be successful through a dynamic development of all aspects:

Living: For a sustainable development of the city the main aim is to build on the existing, condense and stop the extension of its outlines.

Working: The future of economy will be shaped by new knowledge intensive work fields and a hybrid digitalisation. Working hubs and a network to connect are necessary.

Landscape: Connecting the green is the key to a spacial symbiosis of the region & future conservation of biodiversity.

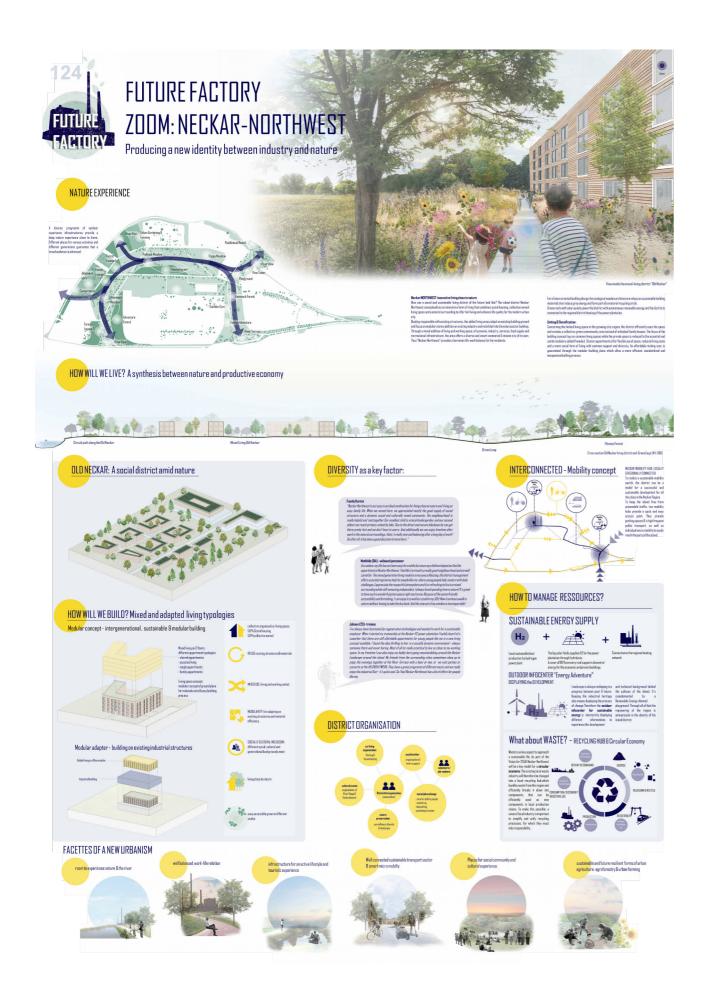
Cultural heritage: Taking responsibility for the cultural and economic heritage of the region while carefully transforming the existing substance.

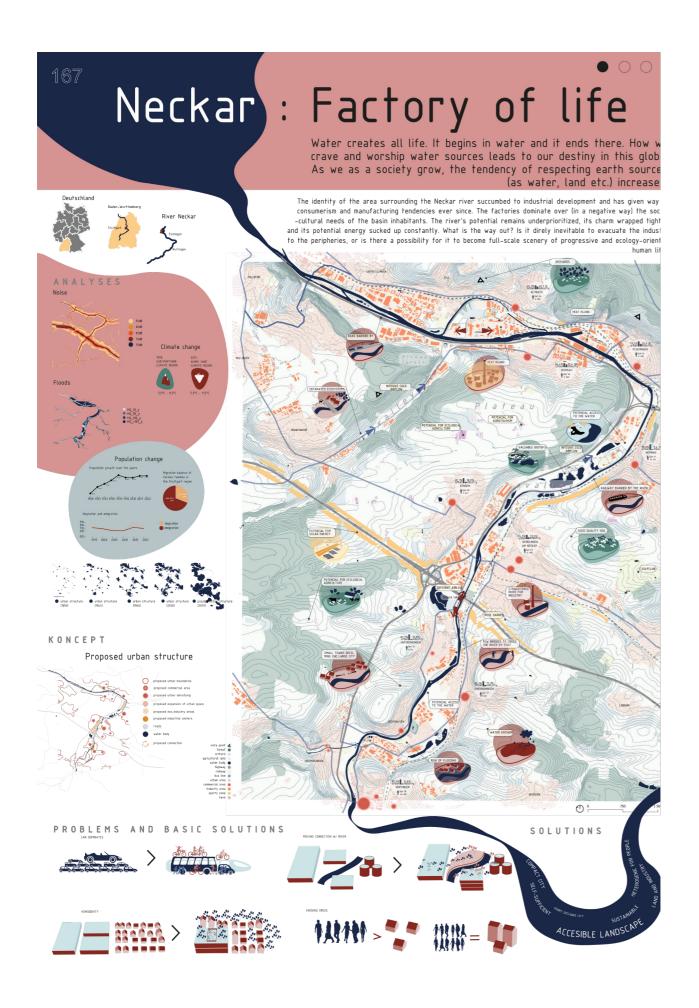
NECKAR NORTHWEST – a social city in-between nature and industry

As a model for a new sustainable living that intertwines the four gears of Future Factory, the island district of Altbach/ Deizisau is developed as a model district for a sustainable Neckar Region: where living, working and an experience of nature are closely connected - an autonomous city in a region where everything is in close reach.









Mendel University Brno and Brno University of Technology, Czech Republic

Sofya Issakova, Andrea Durčáková, Johana Kratochvilová, Marie Školová, Mária Kačalová, Zuzana Fialová; Markéta Kubíková

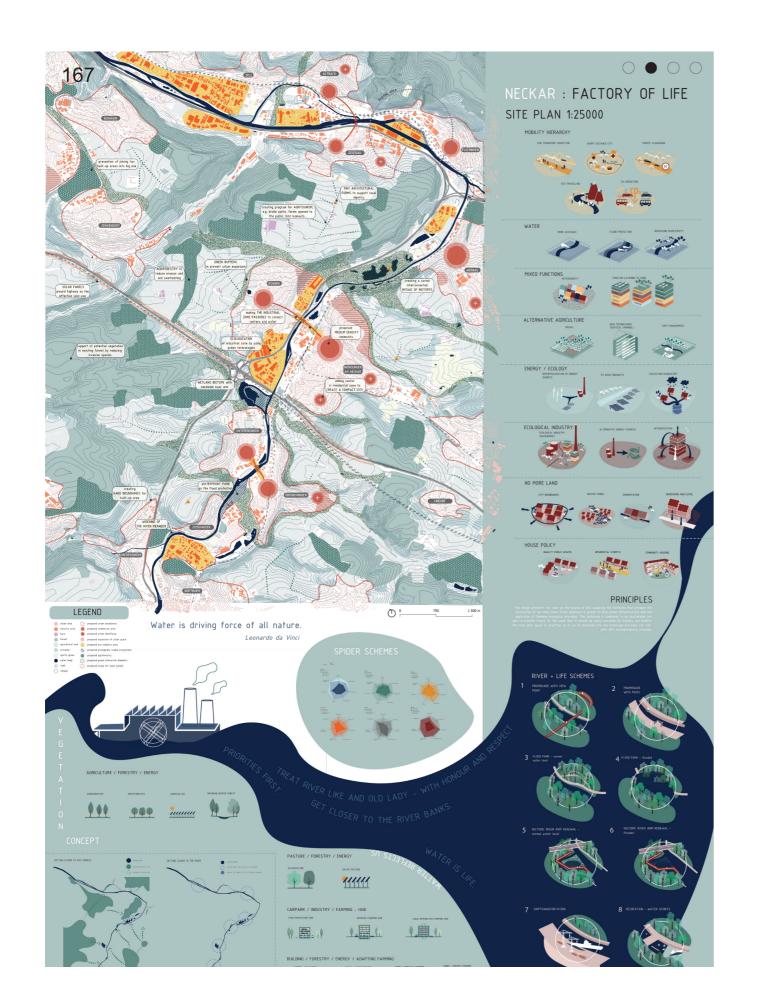
Neckar - Factory for Life

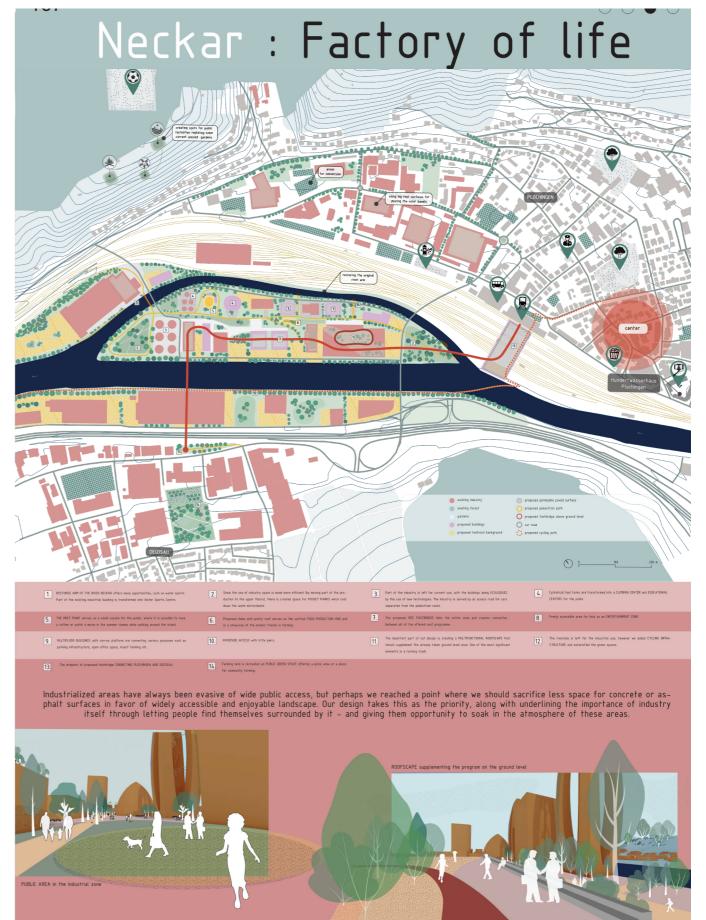
The most prominent elements of the region are industry and the river Neckar. Industry > Buildings/Employment > Factory. River > Water > Life. Factory for Life. The river works as a factory which brings life not only in the sense of fauna and flora and the blue-green infrastructure, but it also brings life for people as a source of water, a source of energy, a source of livelihood.

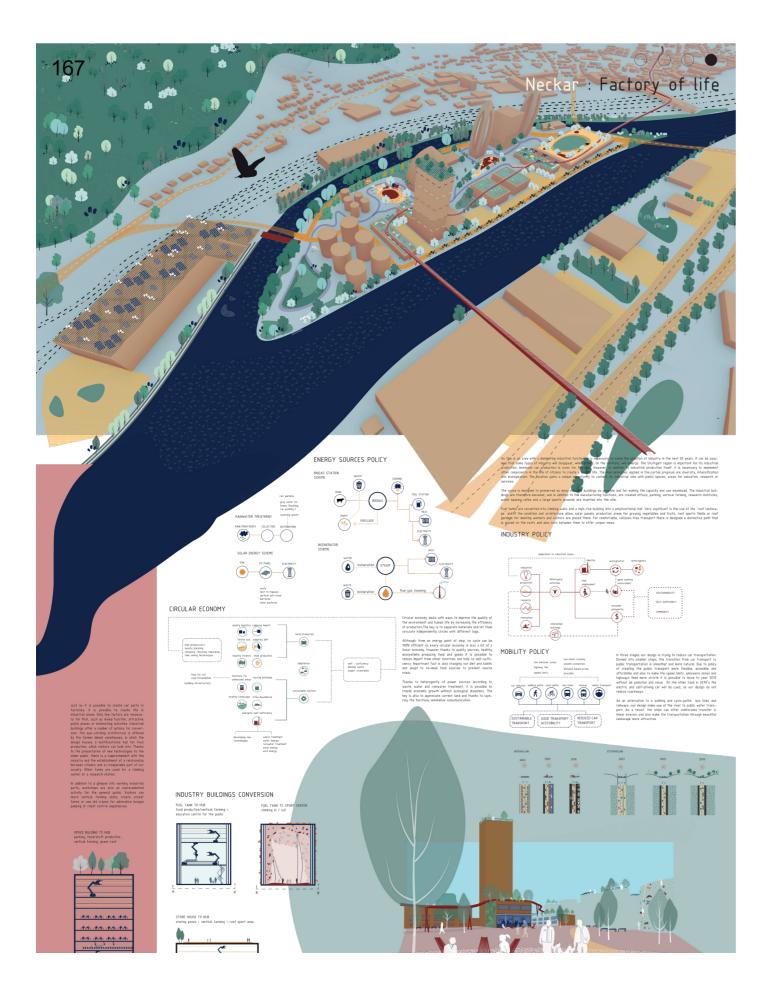
Even though the study area includes the river floodplain as well as the plain above, the greatest problems occur in the floodplain due to the concentration of life there. The dominance of car traffic, monofunctionality and low intensity housing, which leads to lack of development areas for industry and to a housing crisis, or barriers that lower the permeability and accessibility of landscape are just a few to mention.

Our concept focuses on several principles which support sustainability and viability of this region. We propose increasing heterogeneity of space and buildings (hubs) by mixing different functions, not only in industrial and urban areas but also in agriculture by creating a rich mosaic and by using new technologies e.g. in stacked farming.

Support for mixed functions and intensification of the use of already built-up areas ensure compliance with the no-more-land policy, the city boundaries are strictly defined, and construction is allowed only for densification or increment of height. Industrial sites should create a place for alternative energy sources and support ecological principles, just like within the energy industry where we support decentralization of energy sources and



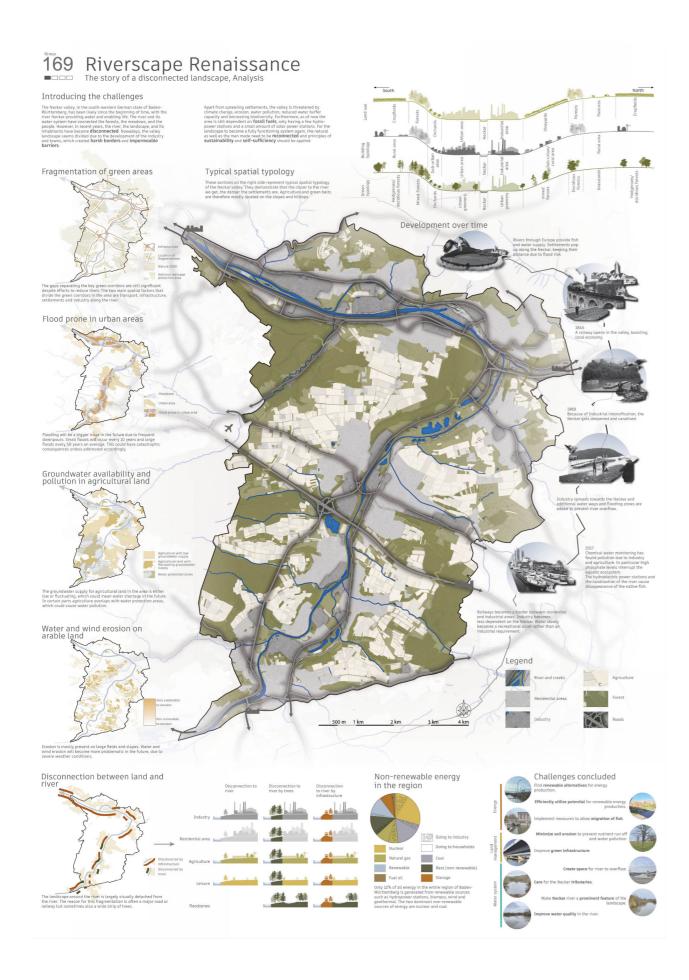




accumulation of potential energy. The support of public and shared transport or the creation of short-distance cities should help reduce the number of cars and create an appropriate mobility hierarchy.

One of the proposed ways of acquiring space for residents should be to promote the river - making some segments accessible and supporting biodiversity in its surroundings. In addition, the development of public spaces and streets within urban areas should be supported.

In the same manner these principles are implemented in the focus area to bring life there. The previously industrial site is made available to people by creating collision-free access or defining industrial, recreational,natural and multifunctional areas. Life is brought also above ground by constructing green roofs and an aboveground pedestrian footbridge connecting Plochingen and Deizisau.



Van Hall Larenstein University Velp and Breda University of Applied Sciences, The Netherlands and Agricultural University of Nitra, Slovakia

Souraya van Helmond, Hylke Vonk, Margaréta Baňasová, Tara Murk, Dean Lahaije, Jenna van Gemert, Iki van Koningsbrugge,

Riverscape Renaissance

The goal of our design is to achieve a gradual revival of the river landscape through thoughtful interventions across three fields: Energy, Land Management and most importantly, Water System. It is water that ties the whole valley together, therefore regenerating the Neckar and its tributaries means transforming the riverscape as a whole.

First, we strive to create more space for fluctuating water levels, which will provide new landscapes along the Neckar for socializing, production and for biodiversity. The areas at the river will eventually become multi-functional, supplying space for living, working, leisure and wildlife. Our next step is to rejuvenate and expand the creeks and thus form a strong green-blue infrastructure across the urban and agricultural areas.

We also suggest sustainable water management practices to improve the quality of aquatic habitats, which will make the river safe to swim and to fish in. To tackle the energy problem, we propose changes in infrastructure and urban planning to reduce energy consumption, as well as several options for local renewable energy sources, mainly agrovoltaics and biomass production making the region largely self-sufficient.

Our design also proposes revised land management that combines diverse agricultural practices and extensive green corridors to address soil degradation, uneven rainfall distribution and growing demand for food. The solutions in our design will make the riverscape productive, accessible and attractive, while also restoring the Neckar River to its rightful place as the lead aspect of the landscape.

