portfolio architecture selected works 2019-2024

# václav heginger

## content

Find your own voice.
Stay true to the voice and true to the ideas, never turn down a good idea, but never take a bad idea.

David Lynch

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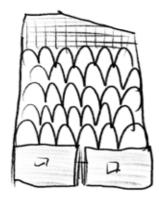
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ATAMA projects

## soil and the void

advisors \_ Johan Nielsen and Johannes Berry studio \_ Roadside picnic period \_ 10/2022-06/2023 final Master thesis at KU Leuven

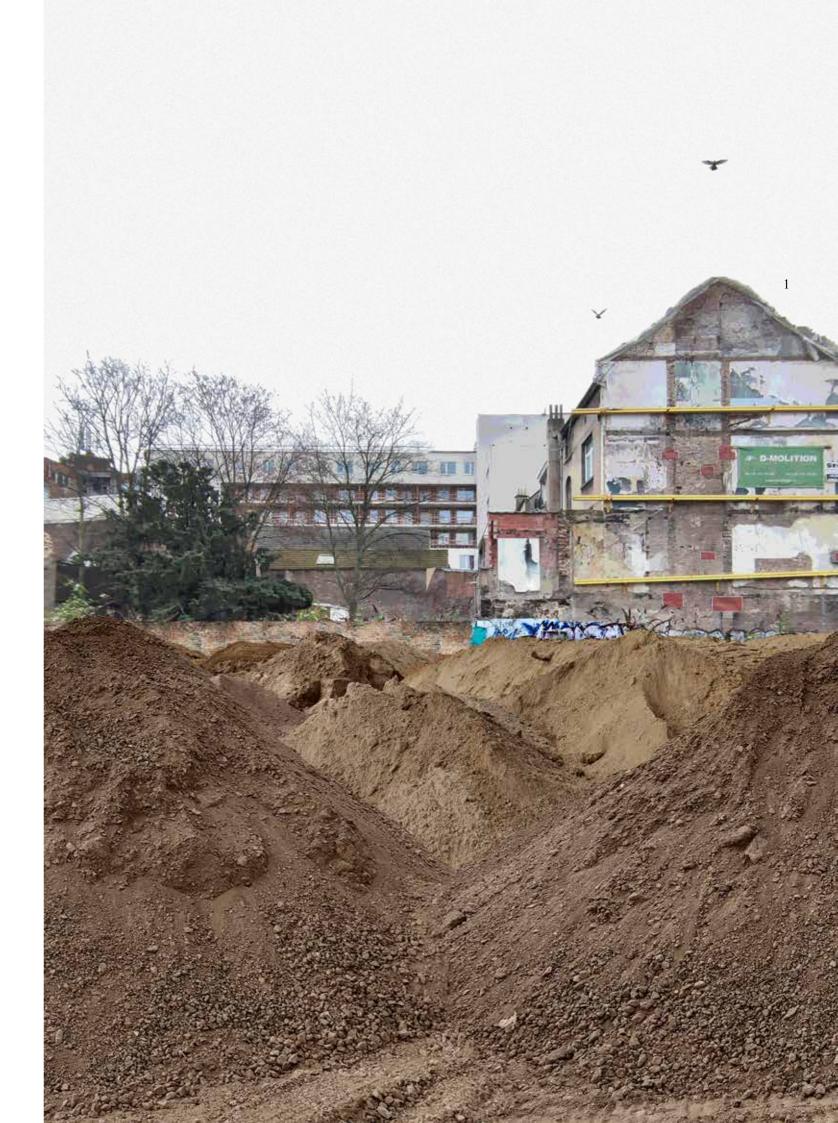


The city is a dynamic and ever-changing entity, continuously developing and redeveloping over time. One of the significant influences on the urban structure and processes comes from infrastructural earthworks. These projects involve vast quantities of materials extracted from beneath the city, essentially making it an urban mine, an abundant source of valuable material. The process involves digging up the soil, storing it, transporting it, and reusing it for various purposes. In this project, the focus is on exploring the potential use and re-use of residual soil in the urban context. By extracting soil from below the surface and bringing it to light, the project aims to raise awareness about the consequences of human actions on the environment. The chosen location for this intervention is rue d'Aerschot, a forgotten void within an urban block that holds great potential to benefit the local community.

To achieve this, I have selected the context of a *new metro line construction in Brussels*, which generates substantial quantities of soil. By using a portion of this earth, I propose to fill the void at rue d'Aerschot, creating a new quality space for the community. The proximity of the void to the metro construction site allows for quick and easy transportation of the soil. The intervention itself is relatively simple, bringing the material on-site and *filling up the void* gradually, using one truck as a measuring unit. Piles of earth are methodically placed to fill the void, giving rise to a new type of space in the city - *the third landscape*.

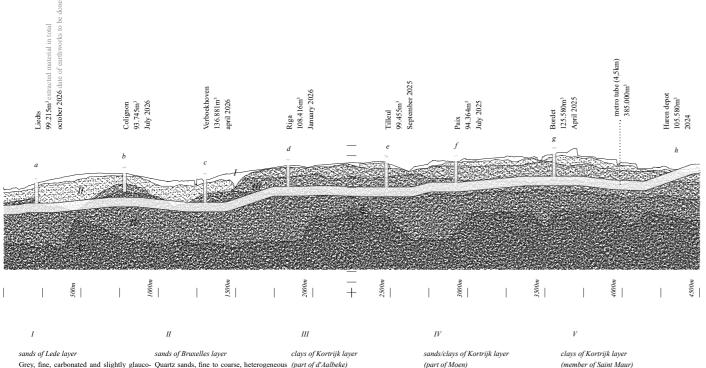
As time passes the site will see the emergence of plant life, adding a touch of green to this transformed urban space. This project exemplifies the potential of utilizing residual soil in a sustainable and meaningful manner, demonstrating how cities can benefit from their own resources while promoting ecological awareness. *Life finds a way...* 

raw soil dumped on the site creating a landscape full of heaps\_1 route of new metro line on the north of Brussels\_2 section through the geological layers\_3 the amount of soil visualized through heaps (angle of repose is 40°)\_4 view on the void, now filled with a heaps and wall\_5 layout of the soil heaps estimation counts with 90 heaps of soil\_7 site plan of the void\_8 original tiles\_12 entrance to the garden\_13 physical model of the proposal\_14



reaches 12 m.





Grey, fine, carbonated and slightly glauco- Quartz sands, fine to coarse, heterogeneous (part of d'Aalbeke) nious sand. The sand is characterised by a and very slightly glauconious, characterised Gray to grey-brown clay, very finely silty. Heterogeneous deposit of silty to clayey Very finely silty clay with some thin interfew benches of sandy limestone. Towards by the presence of hard beds and/or by sand- The average thickness is 4 m.

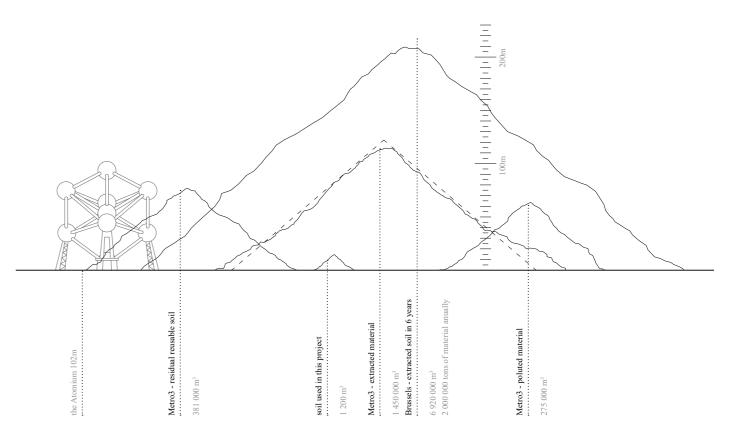
the base, presence of coarser levels and at stone nodules of very capricious shapes. The

of clay. Presence of nummulites. The aver- clayey silt. The average thickness is 30 m. the very base, a well marked gravel with el- presence of Nummulites laevigatus fossils is ements revamped. The maximum thickness typical. The thickness is 70m.

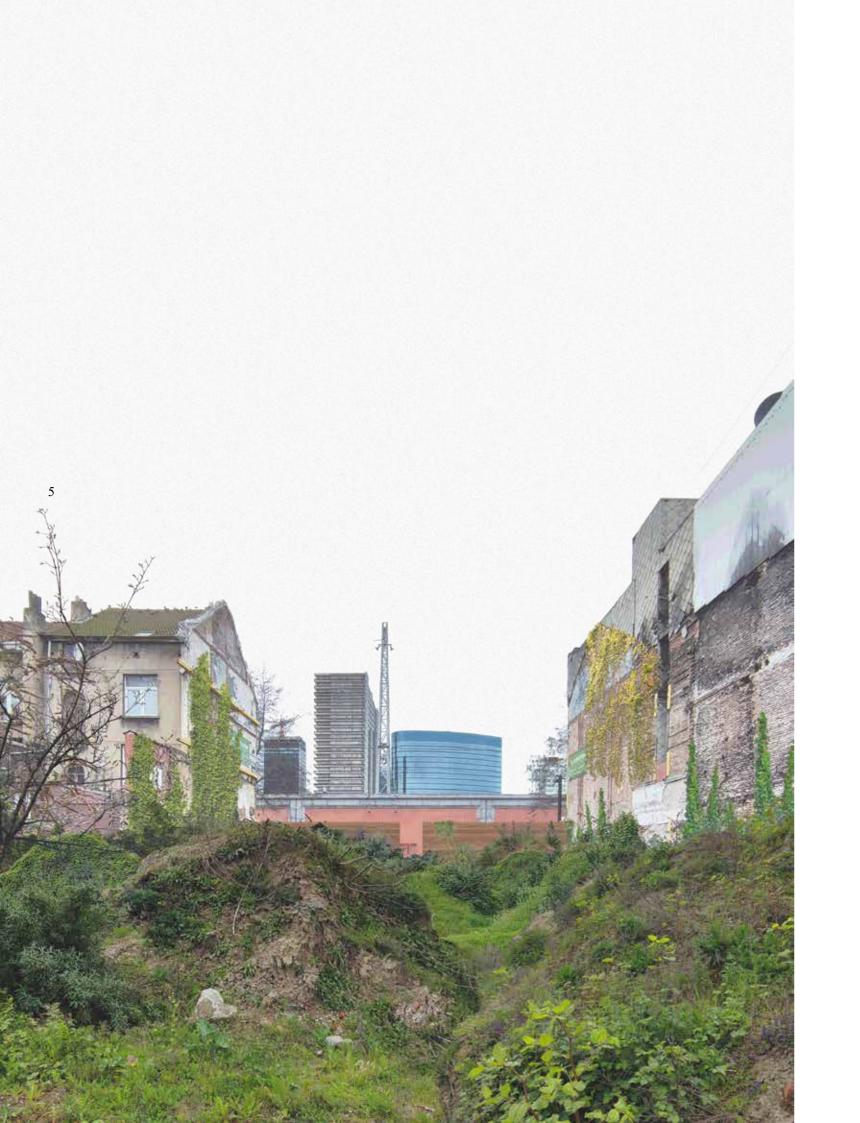
(part of Moen) (member of Saint Maur)

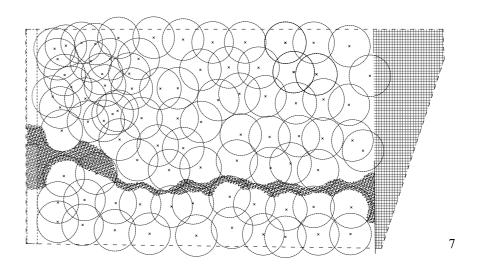
age thickness is 35 m.

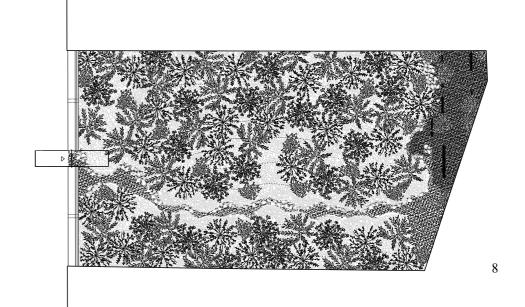
















## changes

advisor \_ Leen Scholiers studio \_ Exhibit's elective period \_ 02/2022-06/2022

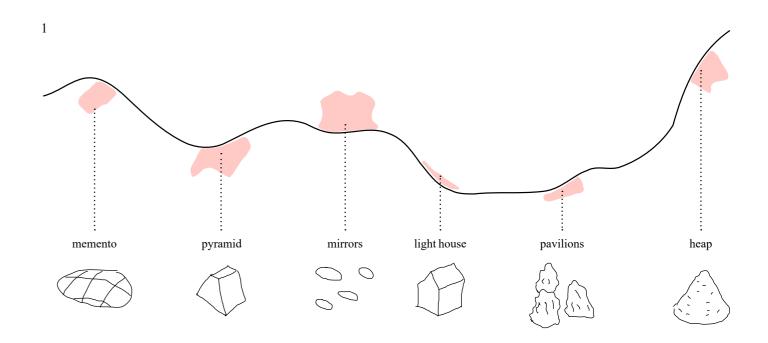


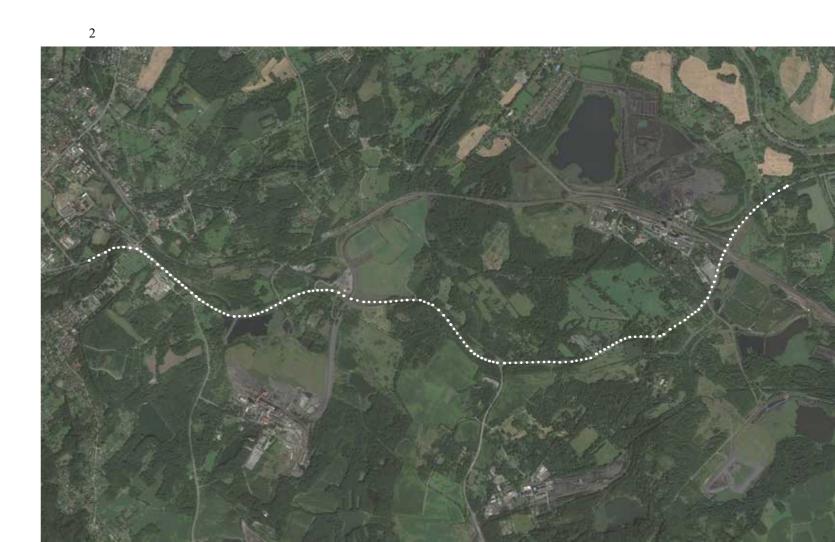
Over the past 50 years, the area between two cities, Orlová and Karviná, has experienced a significant transformation. Historically known for its heavy industry and mining facilities, this region's local weather, natural resources, and landscape have been visibly affected. A notable issue that emerged in the 1960s was ground collapsing, resulting in hills turning into valleys and villages and cities into dust and rubble. This phenomenon has compelled people to relocate, leaving behind a changed cultural landscape.

In response to these challenges, a speculative vision has been developed to reimagine the main road connecting Orlová and Karviná as an **art gallery**. Multiple *interventions along the motorway* now reflect the region's history, the struggles of its local inhabitants, and the current *post-human character of the landscape*. Each intervention is akin to a piece of art, inspired by well-known artists from abroad, but deeply linked to the area's context.

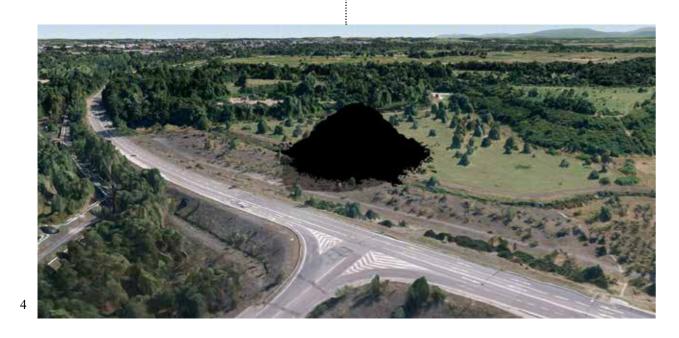
While driving along this transformed road, locals can now admire these artistic interventions and learn more about them through a special radio frequency. Some of the interventions are designed as pavilions, offering a unique experience where visitors can stop their cars and enter to explore an additional layer of the project. The primary aim of this initiative is to attract people to engage with the landscape and its story, particularly the story of coal and miners. As a result, *the landscape seems to breathe again*, *infused with new life and meaning*.

schematic diagram of each intervention along the road\_1 position of the road within the land-scape of Karvina coal region\_2 current state\_3 after the intervention\_4 in total this project consists out of 7 site specific interventions 5

























floating barrels constructed in a shape of mastaba

11

## corbu again!

advisor \_ Livia de Béthune and Johan Nielsen collaboration \_ Hugo Gómez Borrego studio \_ Open up the city! period \_ 09/2021-01/2022



**The Rotier building** is situated on the outskirts of Brussels and dates back to the 1960s. Its architecture is a striking representation of the **modernistic approach**, characterized by a **solid block amidst lush greenery**.

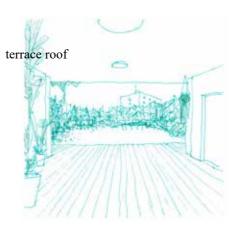
But is that enough?

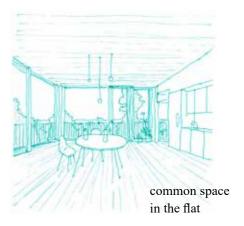
This project aims to take this modernistic philosophy further by drawing inspiration from Le Corbusier's five points of architecture. The goal is to refine and *adapt the principles* of modern architecture to suit the *demands of the 21st century* reacting also on the *post-covid period*.

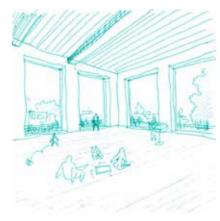
The entire building is undergoing a comprehensive refurbishment to incorporate new communal spaces. Each flat's layout is being redesigned, integrating fresh materials and spatial qualities. The apartments primarily consist of private rooms, with a central technical core. Additionally, a spacious *common area merges the kitchen, living, and dining room*, fostering a sense of togetherness among the residents. Throughout this process, careful consideration is given to preserving the original load-bearing structure.

Furthermore, the project includes the addition of ten new flats within the *new upper structure*. To support this extension, *vierendeels truss and four massive columns* run through the building's core to its base. This structural setup allows for the creation of open and inviting terraces for the inhabitants. The space between the beams offers a large communal area, contributing to a vibrant and engaging living environment for the whole family.

drawings of the buildings interior and exterior\_1 diagram explaining the structural system behind the addition\_2 facade\_3 ground floor\_4 floor 1-7 with apartments\_5 common hall and a roof terrace\_6 floor 9-12 in the new structure\_7 roof terrace with an small garden\_8 detailed floor plan of the spatial conditions in the flat\_9 photos of a current building\_10 photos of a building with an extra added upper structure\_11



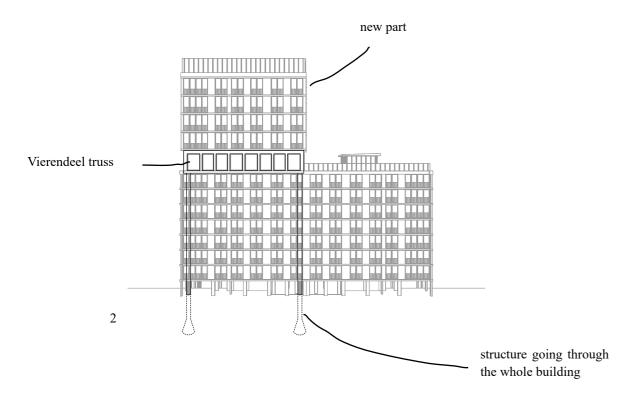


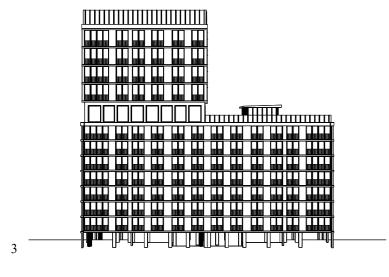




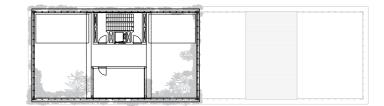




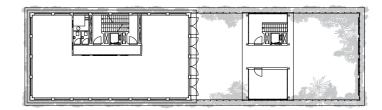


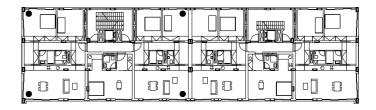


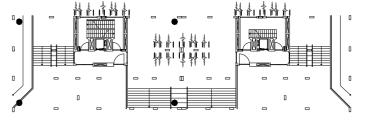
facade

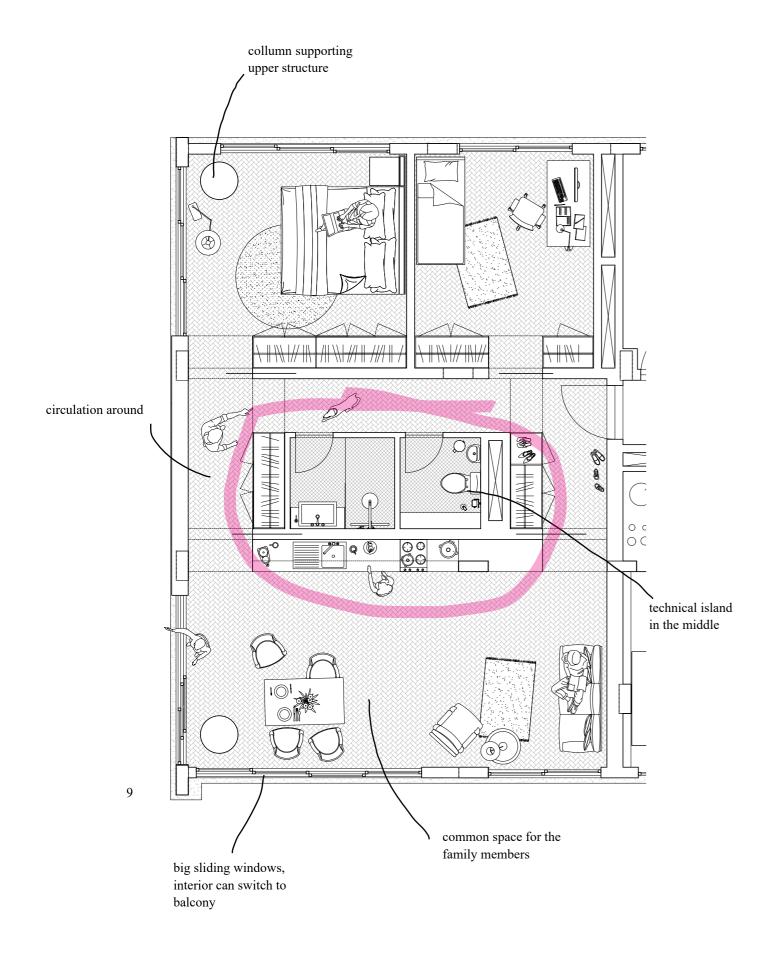








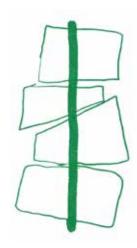






## green enfilade

advisors \_ Caroline Newton and Cecilia Chiappini studio \_ Hypertransformations period 02/2022-07/2022



Belgium recently experienced abrupt heatwaves with temperatures soaring up to 40 degrees, followed by abnormal rainfall that caused flash floods in some regions. The weather in continental Europe is becoming increasingly extreme. In response to these *extreme weather conditions*, this project aims to address the issue on a large scale. The focus is on mitigating the severity of weather and *enhancing nature's resilience and stability*. The key lies in restoring the *water cycle* and *ecological succession* while creating connectivity along the *bike path between Tilburg and Turnhout*. This vast area between the cities is of utmost importance for implementing impactful changes, as the *urban landscape* significantly affects the local climate.

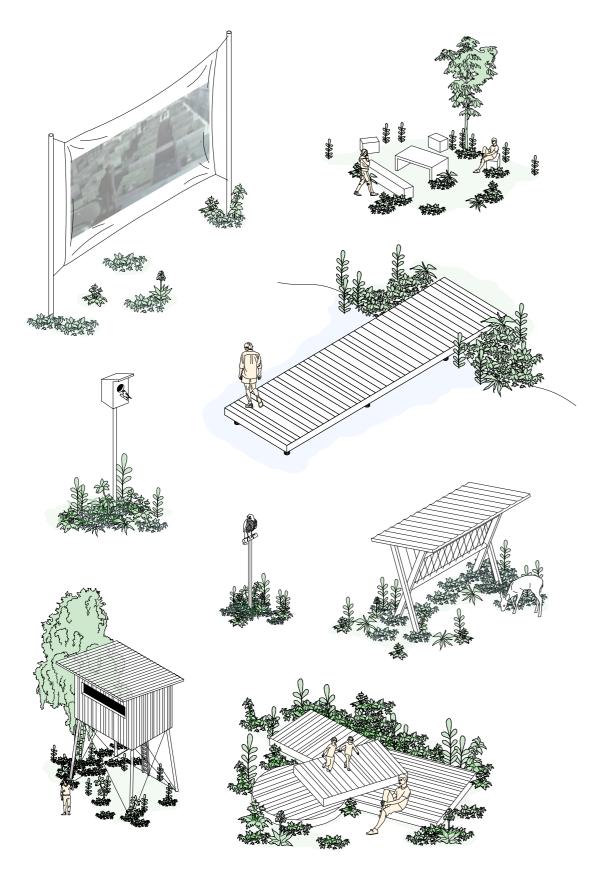
The proposed scenario involves *converting the agricultural land* along the bike path back to nature. Through this transformation, the area is reimagined as green spaces with water bodies and new forestation, untaming the ecological succession. As a result, the region is soon transformed into a network of interconnected green spaces, akin to a landscape-scale enfilade, series of inviting rooms along the path.

To bring life back to these newly emerged green spaces, a diverse range of *interventions* is employed. These interventions are listed in *catalogues* and differ in size, placement, and intended users. Some are designed for animals, others for people. Soon the area thrives with renewed vitality and biodiversity. By embracing these innovative strategies, the project aims to create a harmonious balance between the urban landscape and nature, making the environment more resilient to extreme weather conditions

what was once an agricultural land is now a new restored landscape\_1 restored natural spaces are centered along the bike bath, together it creates a system of green rooms\_2 analysis of the area and bike line conecting Tilburg and Turnhout\_3 current layout of the city and land\_4 agricultural spaces in touch with the bike corrifor are transformed into green thriving reservoirs\_5 ecological succession in a procces\_6 interventions will bring new quality to users. both animals and people 7









## **ATAMA**

presentation of projects I contributed to during my stay in the office

I was primarily involved in competition projects, actively participating as a team member throughout all phases of the design process

for more clarity, there is a list of all my constributions within each project



## **GLL**

architecture comptition Greenbizz in Brussels workshop and atelier units transformabel into housing

## my contribution

- preparing architectural drawings, focusing on façade and detailed floor plans for apartments
- developing the initial volumetric model to explore massing and spatial relationships
- constructing a physical model for the final presentation, use of CNC
- modeling the project in Rhino to support visualization production
- assisting in the preparation of the final project booklet, creating conceptual diagrams and producing cut-through axonometric drawings

## **GREENBIZZ DANS LE QUARTIER**



### hiter & travailler dans un quertier paturell

Les bătimets et le passage ferre un teut indisociatie, les programmes se sont dirigite vers un paysage d'unble, avec "une masse serb" suffiscate peu existe, et devel un loosystème drunble. La dernité habitable se tourne vers la dernité paysagée et intégrée dans le quartier pour une congtienentarité de l'une et de l'autre.

Seion nous, et conforté par les ambitions du maître d'average, le prégarame de un alément es condicien. Notre projet ne mest avent troit un facilitation pour les différents programmes or lesents et pour l'ameir. Des chonnes exort changeaires. Ce qui est fisé dée le départ, c'inst la relation du volume construit avec et quartire. Celle et a édie conque avec le plus quand sérieux.

### Greenbizz s'ouvre au quartier

La projet se présente comma un équiètre parfait entre la vieurbaine et la reture urbaine, cò la fonctionnalité et l'esthétique convergent pour créer un environnement qui réponé

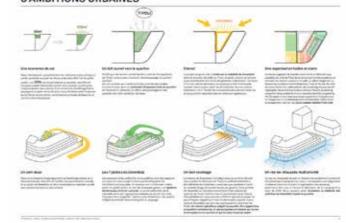
on seulement aux besoins urbains contemporains, skibre égaloment la richéese naturelle du cadre.

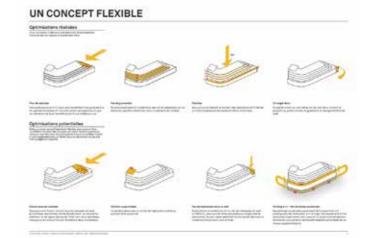
Creat pour cutil casion gue nous avents tout d'abord enrinegaingrand grad pubble (soionzi), toue a tireol. Ce jardin seracençu se grande partie par le baies d'us processus participatif, afin de répondre deplament aux d'éfficants anomaists des différentes parties prenentés. Le jardin sera un espoce vevit actuaunt, partagal avec les différents fonctions du Graechizzseront visibles et accessibles. Ce jardin deviendre le visage de Graechizz.



Un profit appropris, qui recuté à des endroits précis, s'intègidans le quartier.
 Le bitiment se situs au milies entre l'industriel et domestique et pout fusible les deux programmes.
 Le bitiment et le paysage constituent une boude de liais dans le quertier.

### 8 AMBITIONS URBAINES





## LE PAYSAGE COMME MOTEUR



### TRANSFORMER & HABITER



## LOGISTIQUE INTÉGRÉE



### Un fonctionnement logistique simple par la rue.

Tous tes accès logistiques servoit concentrés au rivessu de la rius Deudonné Leffeurs et de l'entrés digé existante du parkin souterrain. La zone de changiement et de déchangement ses viriégrée à l'oriteirur du billiment ains d'autre les désagréments sur les unes publiques simil que les problèmes actualitiques La sone de chargement et de déchangement set les lancois au les les les montres et de déchangement set les lancois au les les les montres et de déchangement set les lancois de la les les les montres de la lancois de la lancois la lancois de la lancois de la montre de la lancois de la lancois la lancois de la lancois de la montre de la lancois la lancois de la lancois de la montre de la lancois la lancois de la lancois de la lancois de la lancois la lancois de la lancois de la lancois la lancois

### Les vélos visible

Lan vidios auranti uma place de premier plan dens Greenbitz II. Un regione glerierus e nera ambraga en rivierus de sos sur l'angle amondi visible. Cet espace constitue également une entrée secondaire de complexes pour les cyclistes et se connecte à la zone de obculation.



### Parking-1

Note autora ajoute sole rampe supplémentairs à l'étagenouternain, Lee paulings de l'exemblez de re franctionnent actuellement répair lement, Lee rampes avoit éducipées de train de agradiautoir. Il entitée également des outerants possitions où les sont trains et du la rampe de l'emenait et peut avoire de d'entaire et la rampe de Genorat à de corrie, oritant avois une bouche. Des et manifolies plus en l'étable dans les notes





CIT BLATON KITAMA BURDAU BOUNTSCHINIK BRIGGO-UNG-CHRISKWAT BROS

TRATOR ATMIC BUREAU BURNTONICO ENGLIS UND UNDERWATERIO

## **ERS**

architecture comptition Schaerbeek, Brussels transformation of the tram depot into an educational centre

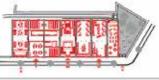
## my contribution

- producing architectural drawings, concentrating on façades and sections
- preparing a detailed Rhino model for visualization purposes (rendering handled by an external firm)
- conducting post-processing of rendered images to enhance presentation quality
- leading the production of a 1:100 physical model, responsible for: preparing CNC files, managing material selection and operating the office CNC machine

## VERNIEUWD ERFGOED...vier respectvolle ingrepen die de uitstraling in de buurt versterken



### 1 Duidelijke adres



### 2 Gevel openen

### 3 Een eigen terras

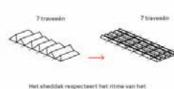


## DAGLICHT & INTERNE RELATIES: WELZIJN









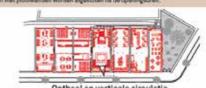
### Een performant industrieel sheddak: daglicht en flexibiliteit

## WELKOM









Daglicht tot op gelijkvloers

Een bijkomend voordeel van de dubbelhoge onthaalnuimte is dat daglotht, komende van het nieuwe dak (zie verder) tot in het oentrom van het gebouweit. Het diepe, donkere gebouw wordt zo in het hert sangelicht.

ATAMA CASEAU MICENSONISSING

