

AR3UA100 URABN ARCHITECTURE GRADUATION STUDIO
2023-24 _ FINAL RESEARCH REPORT

PASSAGE OF WIND

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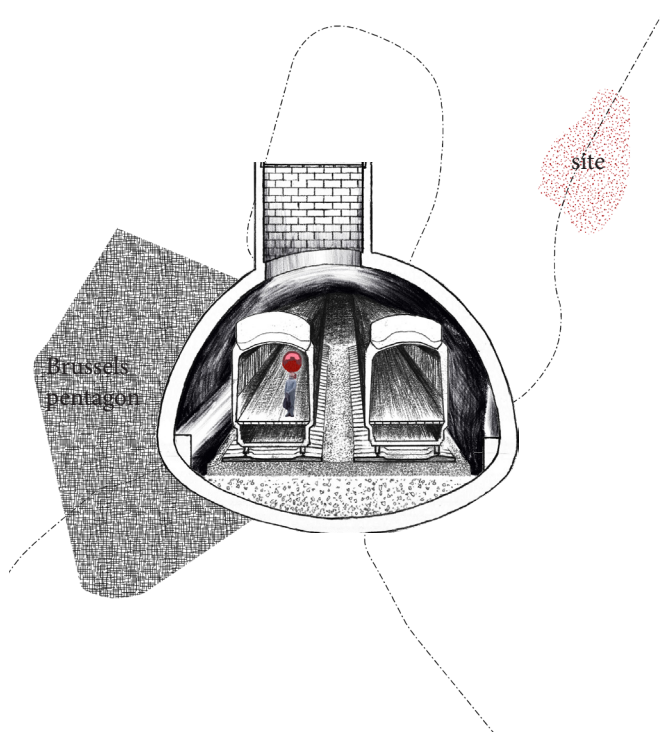
Mentors:

Rosie van der Schans, Lex van Deudekom, Leeke Reinders

Aeolus School

2023 Fall - Friche Josaphat, Schaerbeek, Brussels, Belgium
Tutor: Rosie van der Schans, Lex van Deudekom, Leeke Reinders

Master of Science - Architecture, Urbanism and Building Sciences
Graduation Studio: Urban Architecture - Cum Laude

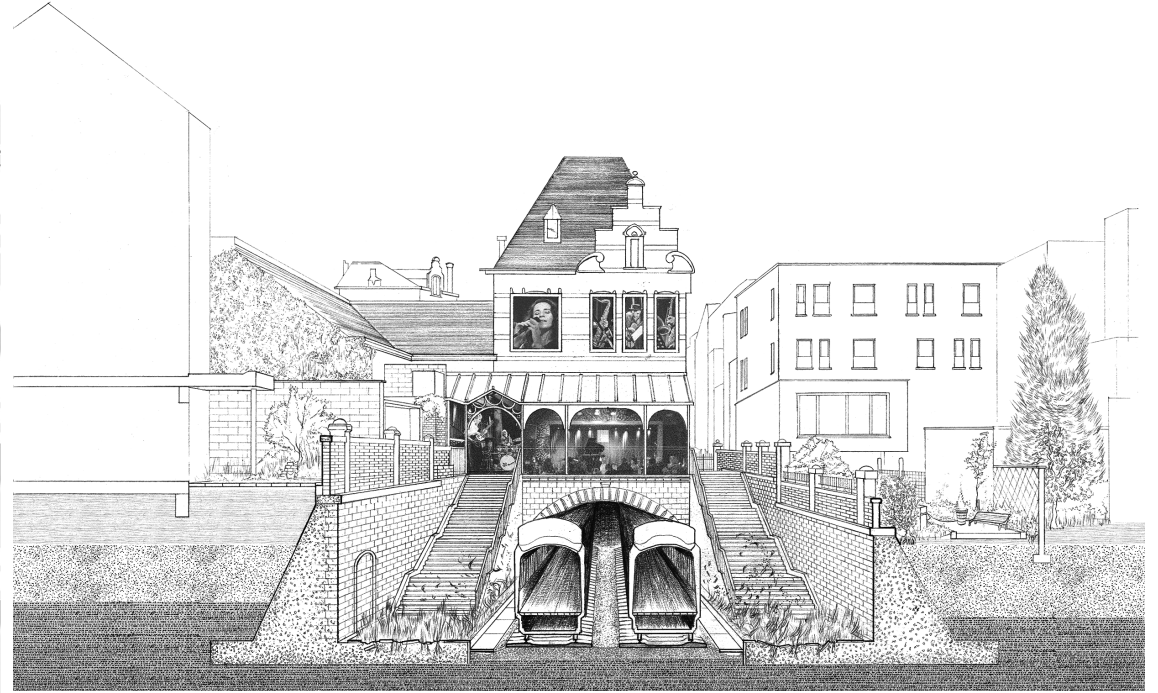
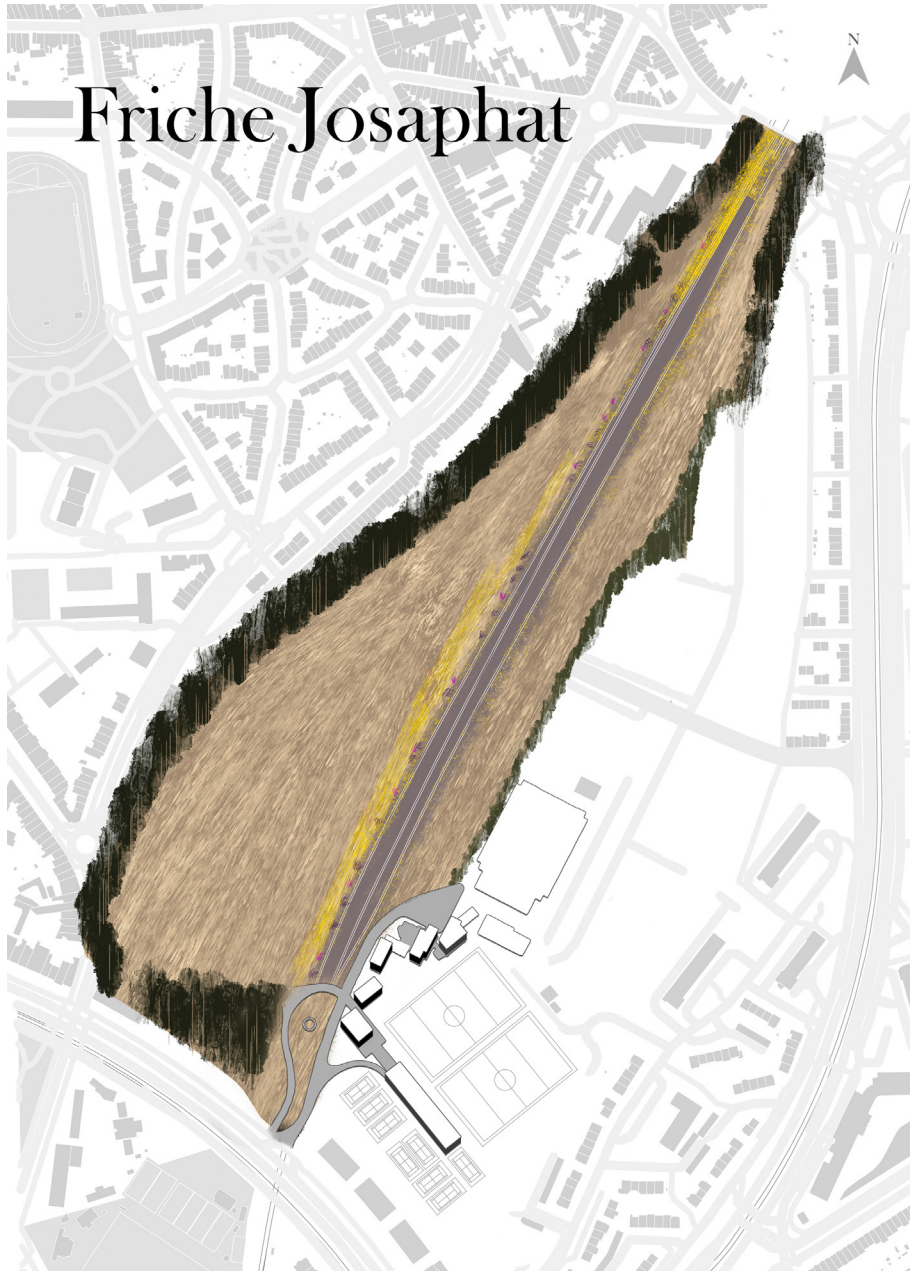


Can the Abandoned become the
Character of a new neighbourhood?



Brussels, a city built on a wet marshland, has a rich history of landscape design and engineering. Earth was removed and resettled to create higher ground while parks and avenues were built to patch the gaps among different infrastructures. Thus the network of green spaces and parks in Brussels has become an important topic of its modern and contemporary urban development. Recently, there is a massive abandoned trainyard around the north-east suburbs of Brussels, waiting to be urbanised and transformed into a new neighbourhood. This situation was chosen to be the brief of the graduation studio of the urban architecture studio 2023 at TU Delft.

Friche Josaphat



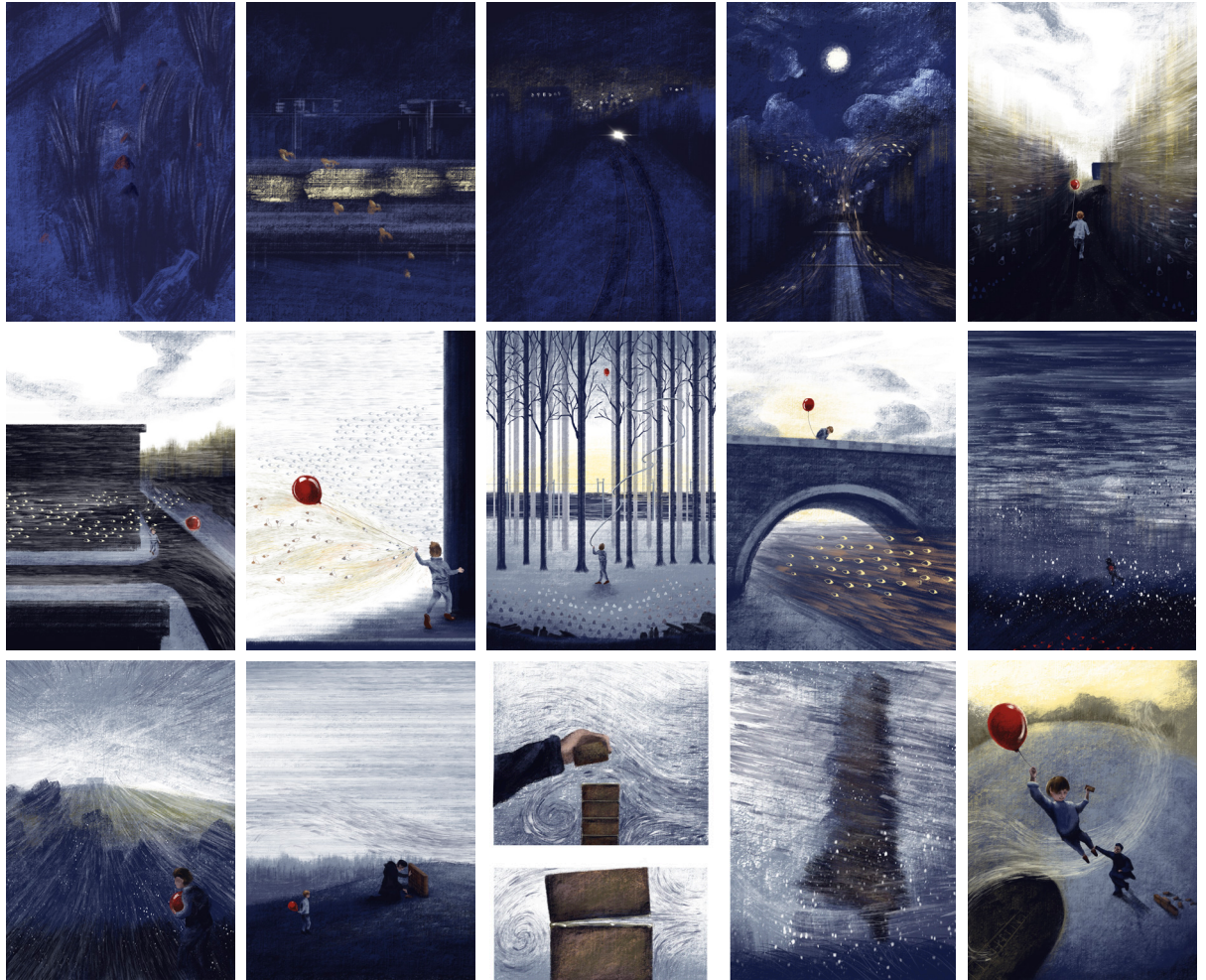
The abandoned land is called the Friche Josaphat, bordered by tall trees and torn apart by an operating railway: the east part was occupied by warehouses and sport fields while the other side sheltered an ecosystem for urban bird and insect species. The distinct characteristics of having two contrasting sides have inspired the government, urban planners and architects to densify the site with elevated walkways, complex urban blocks and asphalt roads, raising the opposition from the ecologists and local activists who want to conserve the particular ecosystem

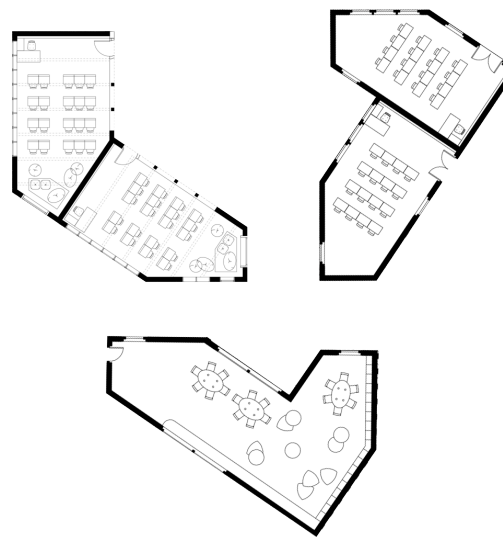
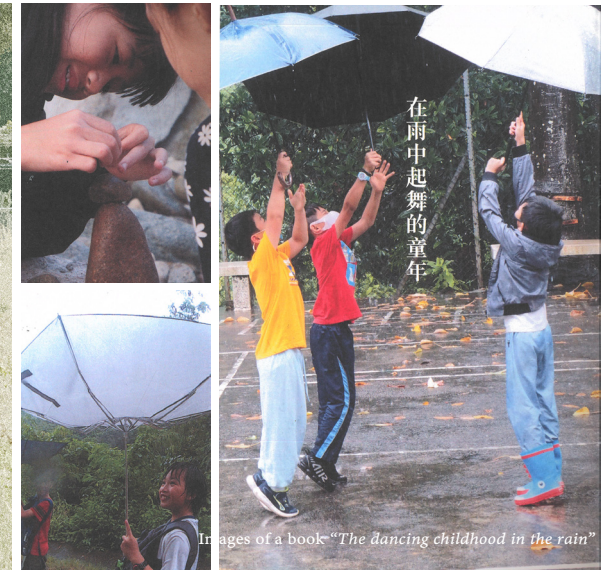
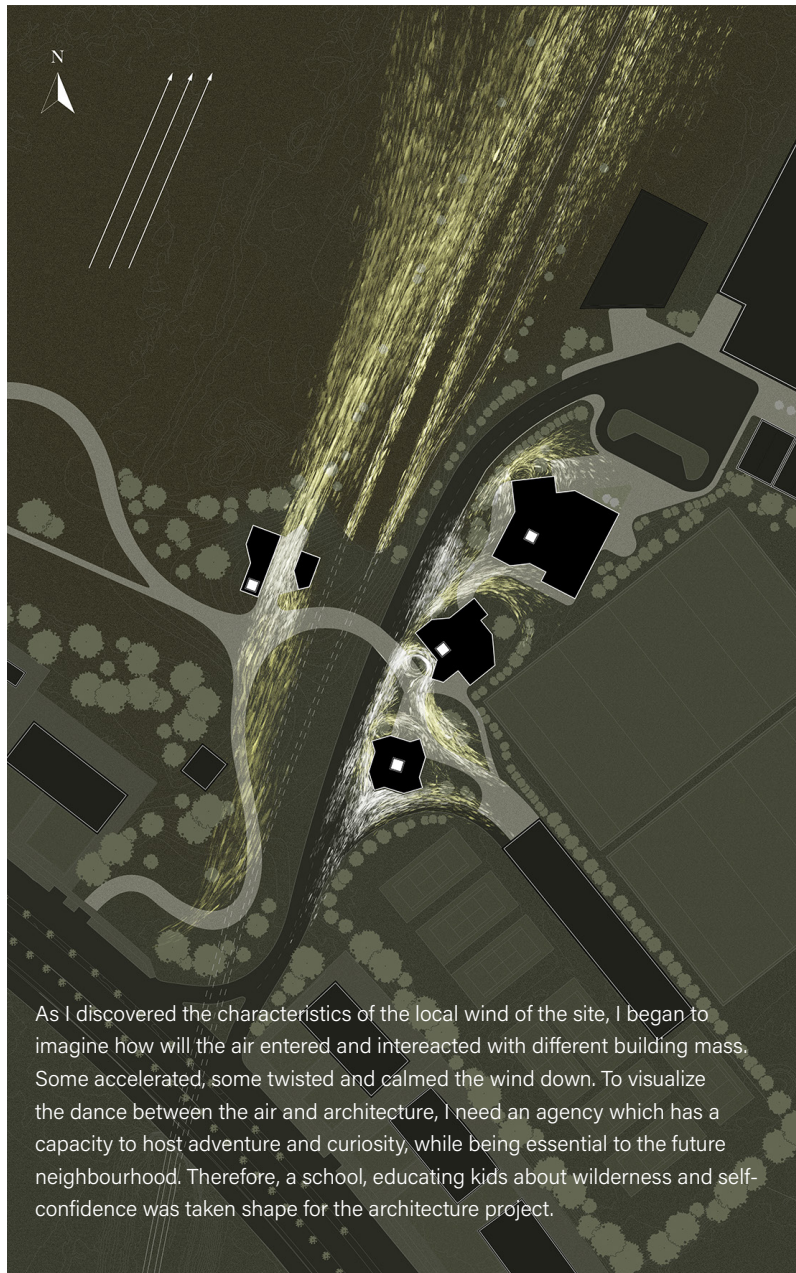




Passage of Wind

Before choosing which side to stand for, I believe that there is something still waiting to be noticed from the site. The emptiness, feeling of being abandoned and the vast horizon were whispering besides me. The sky and the land were once again connected while the trail of wind and weather became so visible and overwhelming. I made Wind became my main research and design theme, questioning how will the aerial landscape respond before and after the urbanization.

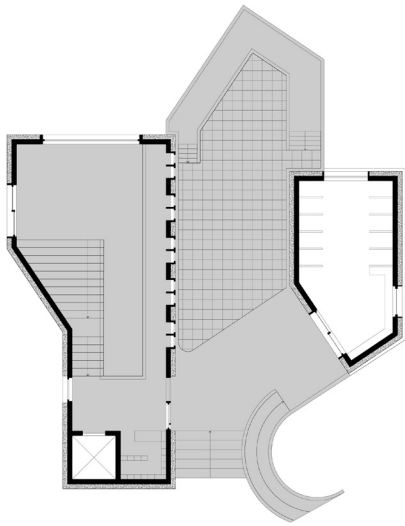




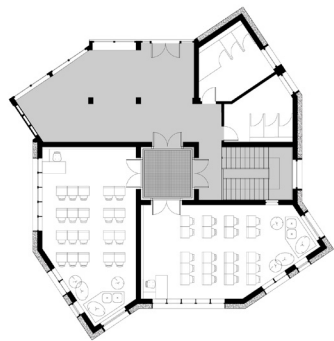
Plan Prototypes of the basic modules of classroom design



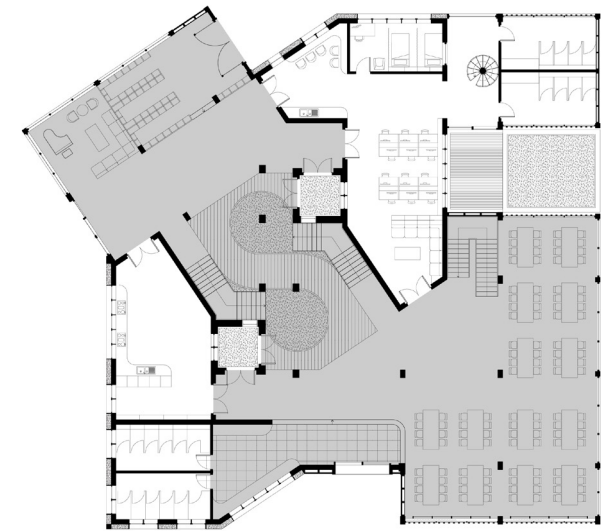
Plan Prototypes of a campus pavilion



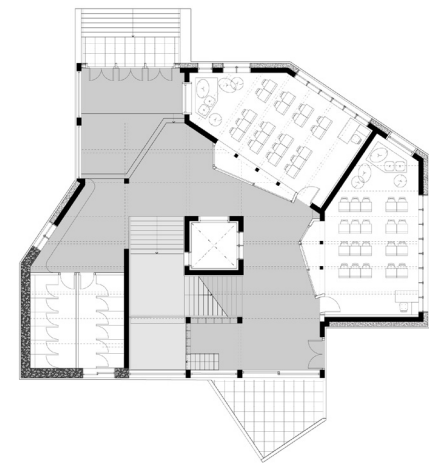
Passage



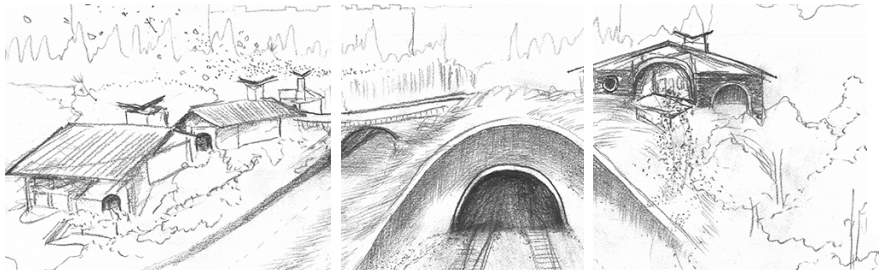
Cape



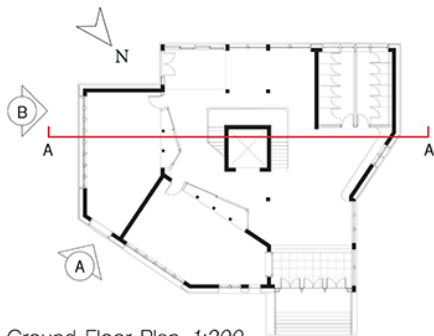
Delta



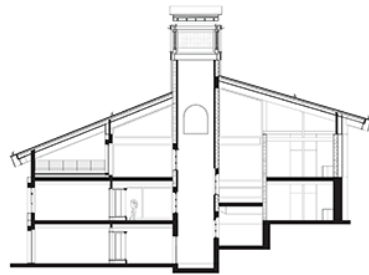
Meander



Compressed rammed earth bricks and prefabricated loam blocks were selected to be main building material for this project, to use the local material which can be reused and recycled even after the lifespan of this particular project. Meanwhile, the aeral quality inside the building was also designed and driven by the wind towers associated with each campus pavilion of the project, delivering fresh air across the building.



Ground Floor Plan 1:200



Section A-A 1:200





AEOLUS

