

Country / City University / School Academic year	The Netherlands, Amsterdam Amsterdam Academy of Architecture 2018 - 2019
	Trees First - The Public Spaces of the Forest-City
	Jean-François Gauthier





TECHNICAL DOSSIER

Title of the project	Trees First - The Public Spaces of the Forest-City
Authors	Jean-François Gauthier
Title of the course	Graduation project
Academic year	2018 - 2019
Teaching Staff	Jana Crepon (mentor), Mirjam Koevoet, Wiebke Klemm
Department/Section/Program of belonging	Landscape Architecture
University/School	Amsterdam Academy of Architecture

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

Let's focus on trees in the city and their needs as a starting point for a better design of public space. Let's look at Brussels as a potential forest territory and let's establish new public space typologies around tree communities. Forest succession will bring a new temporality in the densely populated Belgium capital.

"Trees First" is a research on trees in the city and their needs as a starting point for a better design of public space. New ecological knowledge on forests and their underground social network forms the basis of the proposed urban forest. The design explores various public spaces in the very centre of Brussels that will be connected to each other through the underground system of tree roots. A hidden water system, artificial topography and remains of the initial Brussels valley define a potential forest territory. Different urban situations and very contrasted forest habitats can be found within the perimeter of our project area: the Boulevard Anspach and its surroundings.

Four main forest typologies are defined: the Canyon Forest Boulevard, the Hill Forest Square, the Wetland Forest Park and the Mountain Forest Towers. A green network is built around these forest typologies thanks to soil continuity and permeability. New urban programs can be developed around them. A set of design rules is defined from these case studies, exploring key urban habitats, tree communities, succession strategies. Brussels will receive great benefits in return in terms of ecosystem services and urban forests will contribute to public health and climate change adaptation.

For further information Máster d'Arquitectura del Paisatge -DUOT - UPC

T: + 34 93 401 64 11 / +34 93 552 0842 Contact via email at: biennal.paisatge@upc.edu

Máster d'Arquitectura del Paisatge -DUOT - UPC

ETSAB- Escola Tècnica Superior d'Arquitectura de Barcelona Avenida Diagonal, 649 piso 5 08028 Barcelona-Spain

CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

Barcelona





September 2020 SCHOOL PRIZE

Forest-City Territories

The Hill Forest Square Anneessens



Lowlands and lower slopes of hills



The Wetland Forest Parc Fontainas



Valley territory with constant moisture

The Canyon Forest Boulevard Anspach



Contrasted seasonal changes from flood to drought







The Mountain Forest Brouckère Tower



Contrasted and extremes conditions



Forest-City Communities

The Hill Forest



Tree community at the edge between low and high land





Tilia as mother trees giving nutrients to siblings thanks to mycorrhizal exchange



Narcissus

pseudonarcissus

Anemone

nemorosa



Bridge crossing wet and dry habitats







Salix Alba





Later succession occurs in dryer ground

Populus buffering water in the Boulevard

Stones giving Pioneer ability to grow on stability to trees steep surface

Salix aurita

The Canyon Forest



Pioneer clumps, green walls and open under-story





























The Wetland Forest

Mosaic of wet habitats: valley, fringe and plain

Caltha palustris



The Mountain Forest



Communities of specialist



Pinus nigra as key specie



Asplenium adiantum



Quercus petraea



Prunus mahaleb



Asplenium trichomanis



Betula pendula



Forest-City Successions

The Hill Forest



Pioneer Strategy







The Wetland Forest

Mother Trees Strategy







The Canyon Forest



Spreading Strategy









The Mountain Forest



Vertical Growth Strategy

