

GRÜNTUCH ERNST ARCHITEKTEN

WGIC Berlin 28.06.2023

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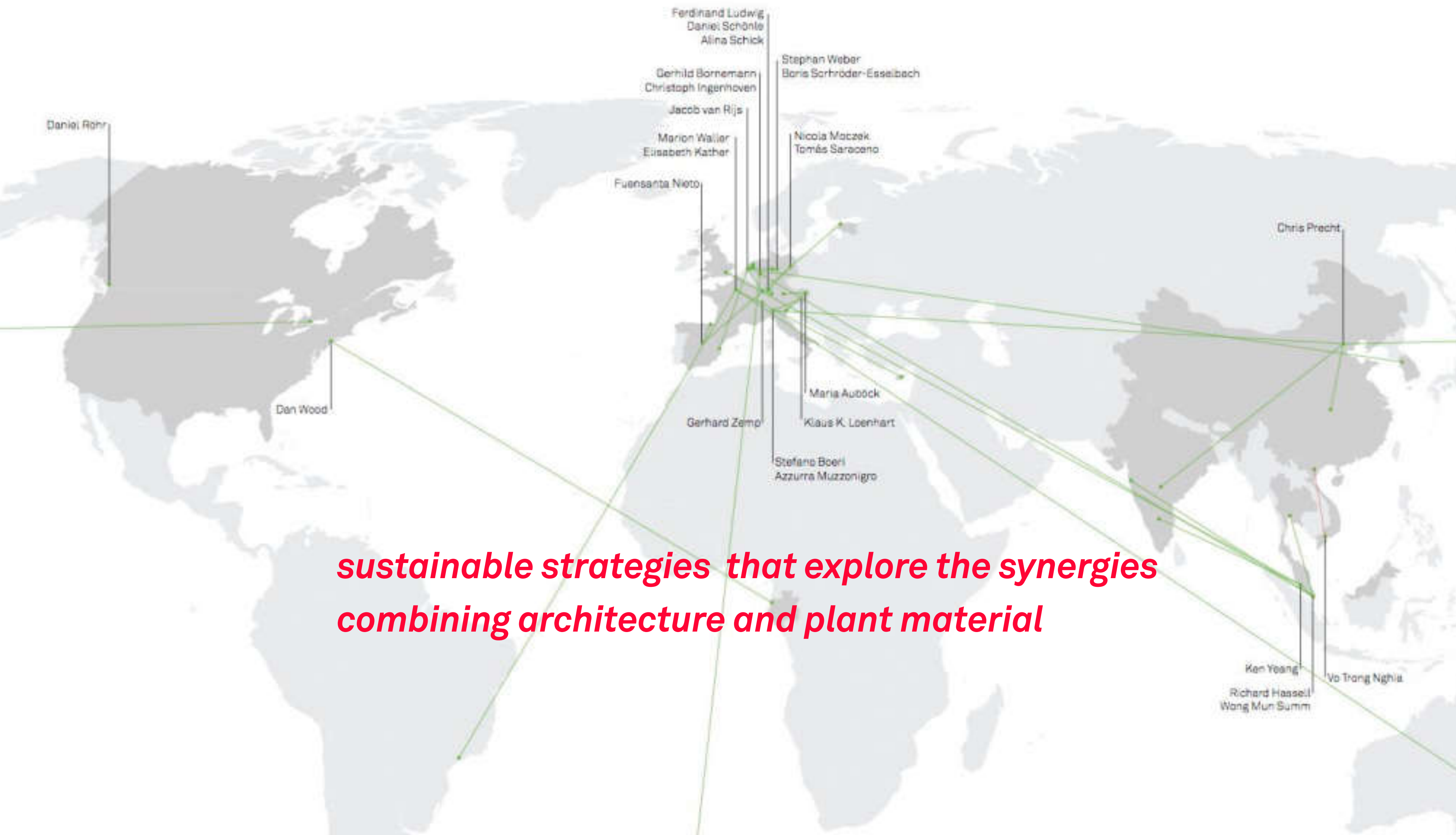




Technische
Universität
Braunschweig

Institute for Design
and Architectural Strategies





*sustainable strategies that explore the synergies
combining architecture and plant material*

HORTITECTURE



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Hanging Gardens of Babylon



1833, Jean Baptiste Rondelet



Ta Prohm Temple, Angkor Wat, Kambodscha



Green Roof Houses, Iceland



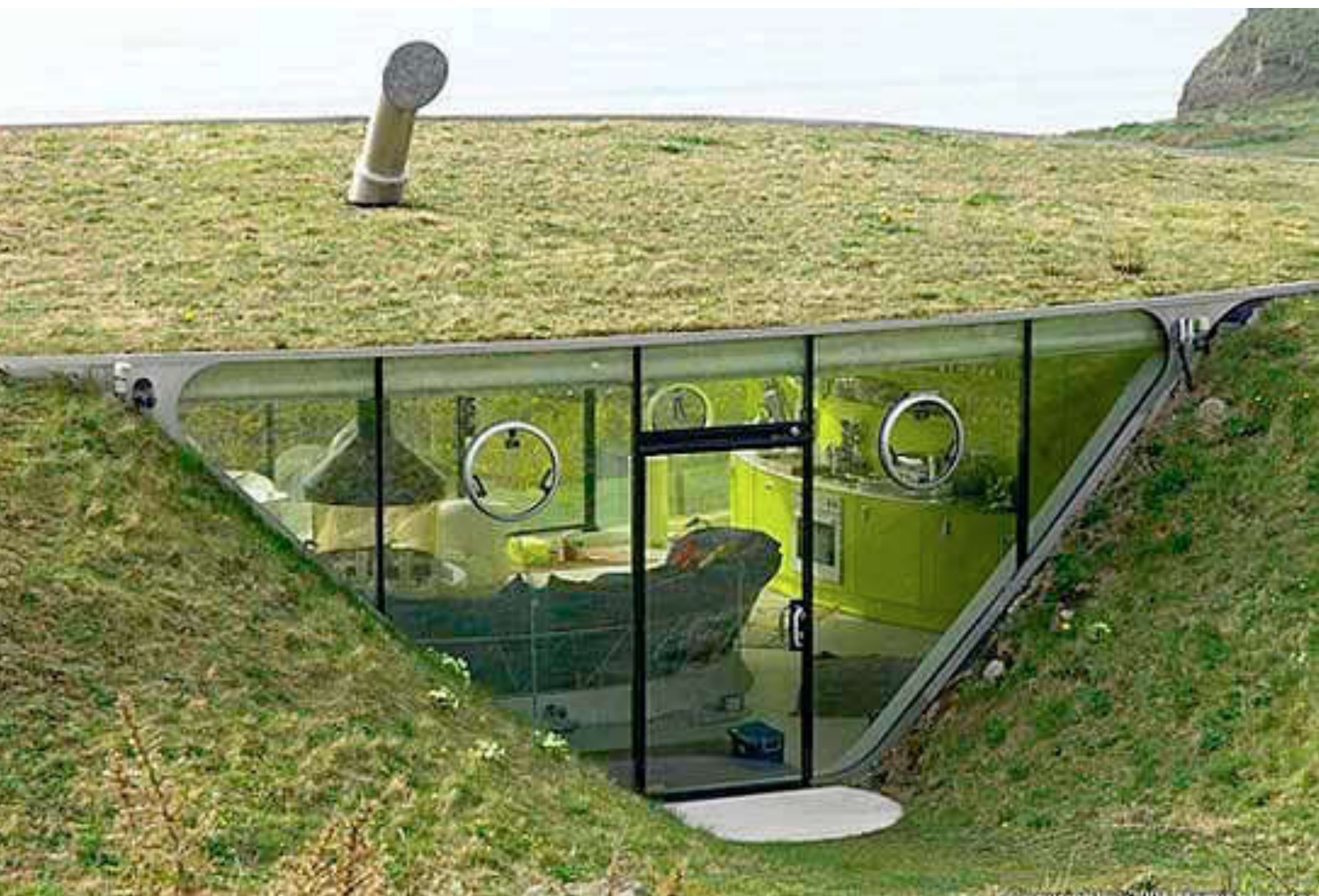
1958-62, Nordic Pavillion, Biennale di Venezia, Sverre Fehn



2009, Tree hotel by Tham & Videgård Hansson Arkitekter



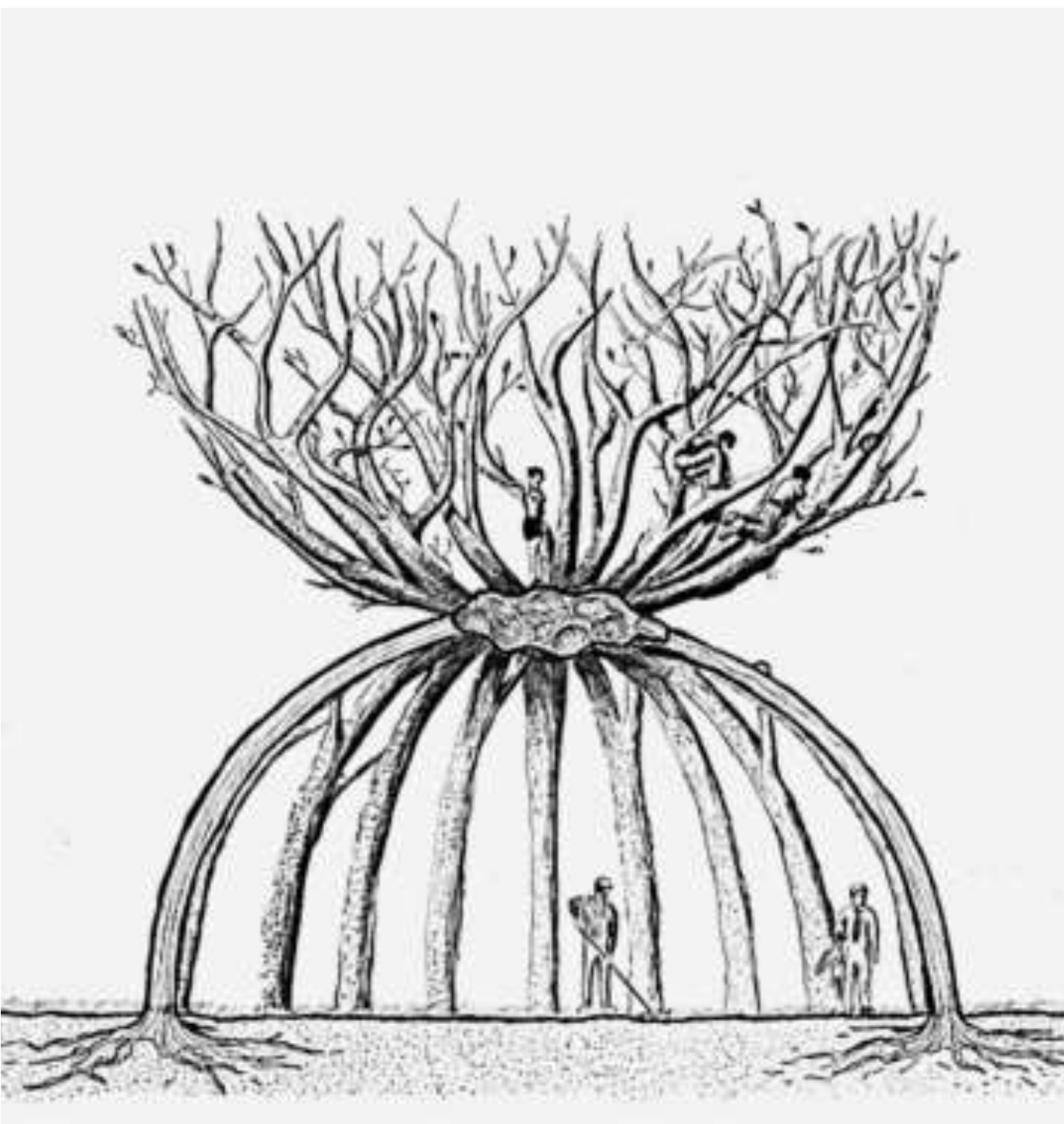
1950, Casa de Vidro, Sao Paulo By Lina Bo Bardi



1998, Malator House, Wales by Future Systems



2014, Per Kristian Nygard, Grassy Valley in Oslo



started 2009, Majestic Cathedral made of living breathing trees, Valsugana Italy by artist Guiliano Mauri



Building techniques: Thatched Roofs

2008, Wind and Water Bar Binhduong, Vietnam, VTN Architects



2010, Brooklyn Grange Rooftop



2008, P.F.I (Public Farm one) WORKac Company



Green Houses



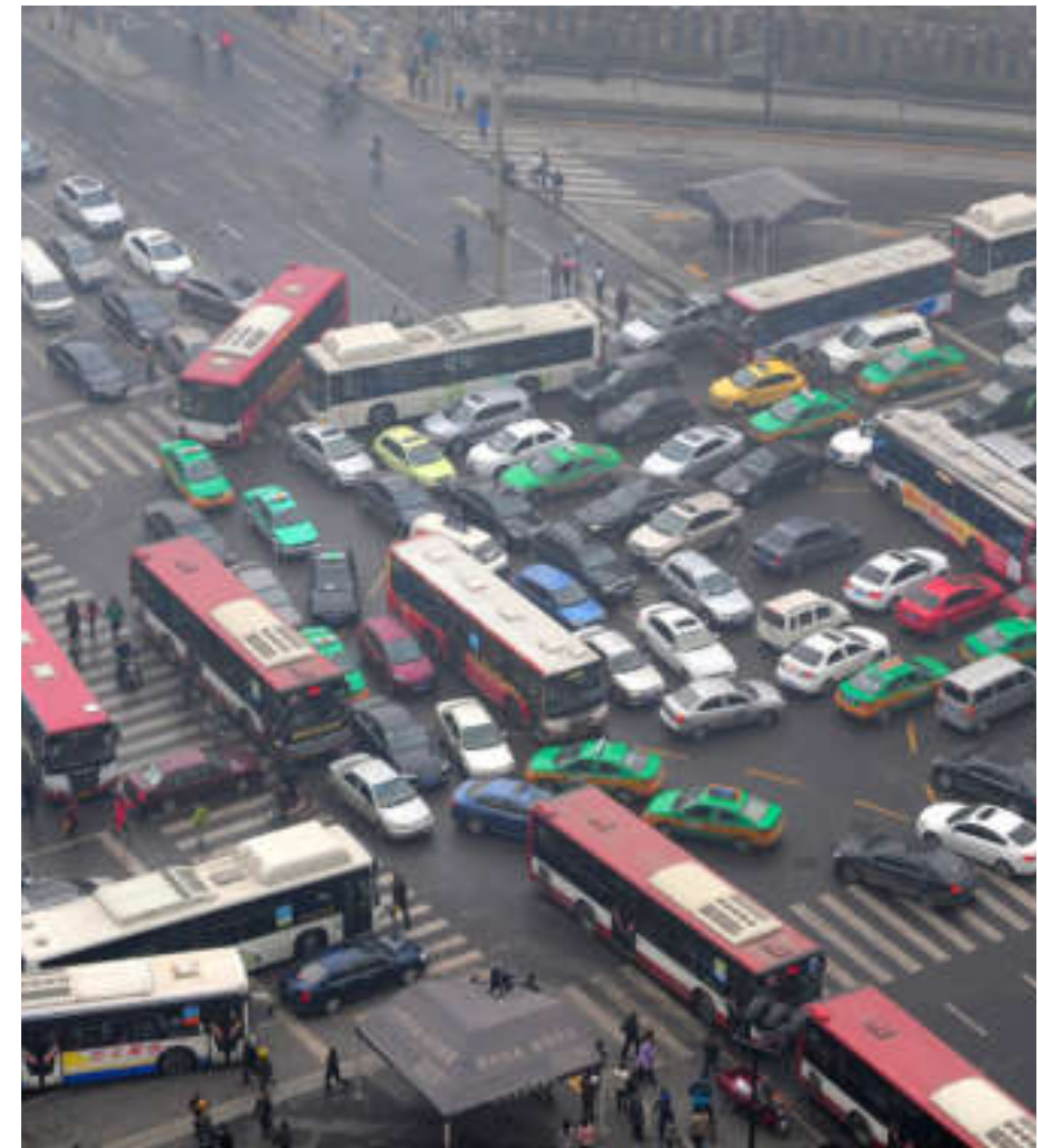
Omega Garden, Cylindrical Hydroponic - high quality food all year



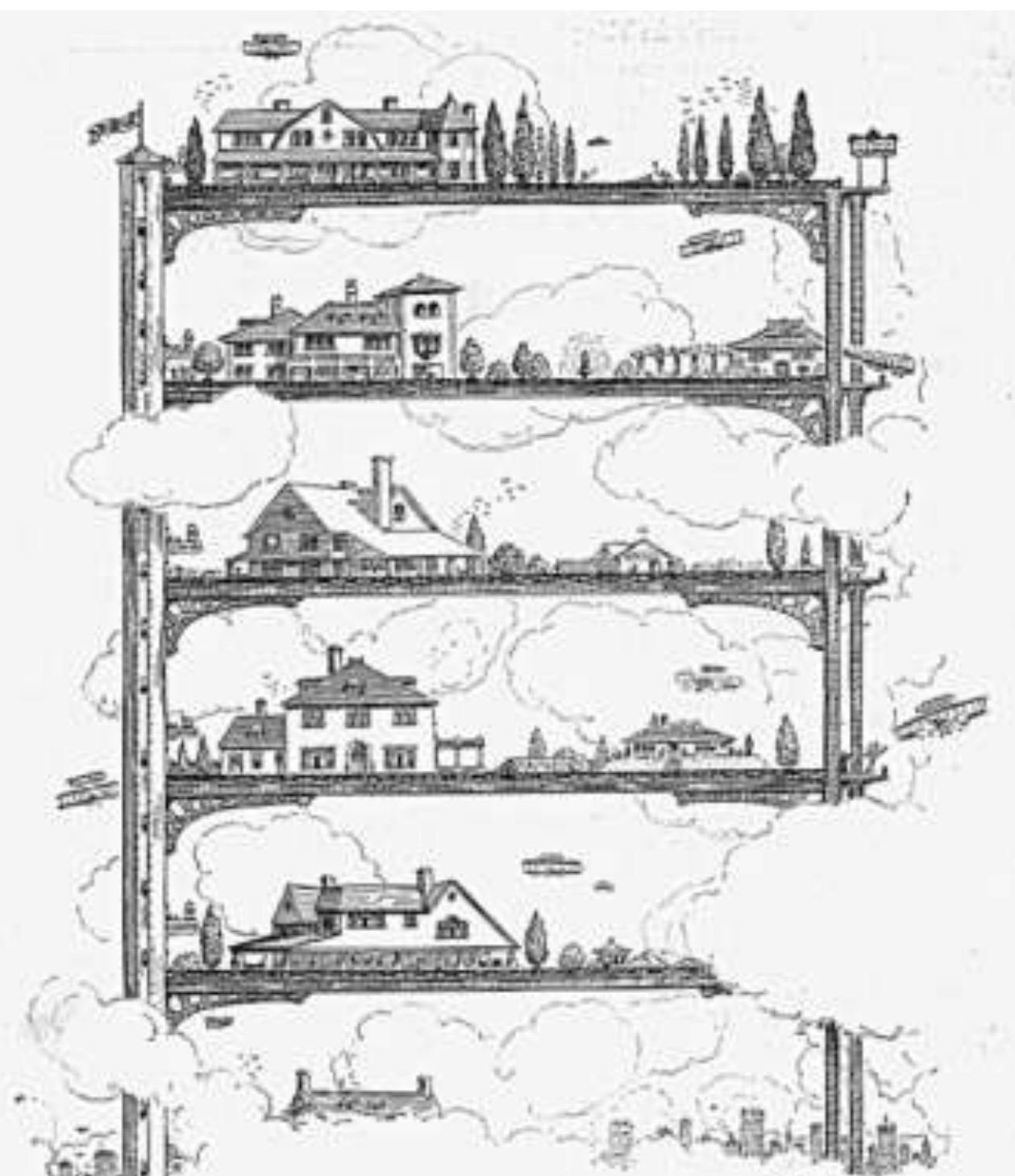
Vertical Farms



Megacities in China



Paris



1909, Celestial Real Estate



1981, Highrise of Homes, James Wines



2012, Bosco Verticale, Milan, Stefano Boeri



2011, Stacking Green House, Vietnam, VTN.Architects



2013, ParkRoyal Collection Pickering, Singapore, WOHA



unknown project in Milan



1958-62, Siedlung Halen, Atelier 5

academic research



Stefano Boeri
Stefano Boeri Architetti, Milano

F. Ludwig | D. Schönle
Research Group Baubotanik, Stuttgart

Nicola Moczek
PSY:PLAN, Berlin

Fuensanta Nieto
Nieto Sobejano, Madrid

Jacob van Rijs
MVRDV, Rotterdam

Tomas Saraceno
Studio Saraceno, Berlin und TU Braunschweig

Vo Trong Nghia
Vo Trong Nghia Architects, Ho Chi Minh City

S. Weber | B. Schröder-Esselbach
TU Braunschweig

Dan Wood
Work ac, New York

Ken Yeang
Hamzah&Yeang, Kuala Lumpur

HORTITECTURE

International Symposium
public lectures focusing on
alternative sustainable strategies
that explore the synergies
combining architecture and plant material

10.12.2014
11-20h

TU Braunschweig
Hauptgebäude Altbau

IDAS—Institute for Design
and Architectural Strategies
Prof. Almut Grüntuch-Ernst



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Braunschweig

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Ferdinand Ludwig
Baubotanik, Stuttgart

Alina Schick
visioverdis, Stuttgart

Gerhild Bornemann
German Aerospace Center, Cologne

Daniel Röhr
UBC, Vancouver

Marion Waller
Reinventing Paris, Paris

Stefano Boeri
Stefano Boeri Architetti, Milano

Klaus K. Loenhardt
terrain_ Graz / Munich

Christoph Ingenhoven
Ingenhoven architects, Düsseldorf

Richard Hassell
WOHA, Singapore

HORTITECTURE 02

International Symposium

public lectures focusing on
alternative sustainable strategies
that explore the synergies
combining architecture and plants

15.11.2016
10-20h

TU Braunschweig
Hauptgebäude Altbau

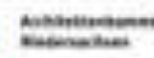
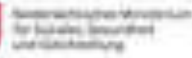


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IDAS
Institute for Design and
Architectural Strategies
Prof. Almut Grüntuch-Ernst

In cooperation with / exhibiting biocentric student projects with:
Institute of Geoecology Prof. Boris Schröder-Esselbach
Institute for Landscape Architecture Prof. Gabriele Kiefer
Polytechnic University of Milan Prof. Stefano Boeri

Wir danken die folgenden für die finanzielle Unterstützung der Veranstaltung: Ministerium für Soziales, Gesundheit und Gleichberechtigung, Architektinnen-Netzwerk, wvtd-architects.com, Prof. Almut Grüntuch-Ernst, International Day of the Girl Child



Chris Precht
PENDA Studio, Salzburg & Beijing

Wilfrid Middleton
Researcher, Munich

Marco Schmidt
Berlin University of Technology

Gerhard Zemp
aplantis, Bern

Diana Scherer
Artist, Amsterdam

Dieter Volkmann
Biologist, Bonn

Maria Auböck
Auböck + Kárász Landscape Architects, Vienna

Thomas Corbasson
Chartier - Corbasson Architectes, Paris

Susanne Thomaier
ZFarm, Berlin

Niklas Weisel
Botanic Horizon, Sehmatal-Cranzahl

Cassian Schmidt
Schaugarten Weinheim

Elisabeth Kater
Ateliers Jean Nouvel, Paris

HORTITECTURE 03

International Symposium

public lectures focusing on
alternative sustainable strategies
that explore the synergies
combining architecture and plants

15.11.2017
10-20h

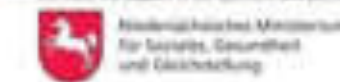
TU Braunschweig
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HORTITECTURE explores the synergies of combining architecture and vital plant material—taking plants off the ground to a new conceptual and spatial context. It is a search for the potential of plant material as a construction material, in the provision of ecosystem services, in urban food production and for the poetic power of built compositions. The book documents symposia events with international experts—focusing on interdisciplinary practices for creating more sustainable future cities.



HORTITECTURE
THE POWER OF ARCHITECTURE AND PLANTS

Almut Grüntuch-Ernst
IDAS Institute for Design and
Architectural Strategies (Eds.)

Almut Grüntuch-Ernst
IDAS Institute for Design and
Architectural Strategies (Eds.)

HORTITECTURE
THE POWER OF ARCHITECTURE AND PLANTS

jovis

jovis



Technische
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interdisciplinary Seminar

**IDAS - Institute for Design and
Architectural Strategies**

**IGÖ - Landscape Ecology and
Environmental Systems Analysis
Prof. Boris Schröder-Esselbach**



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HORTITECTURE

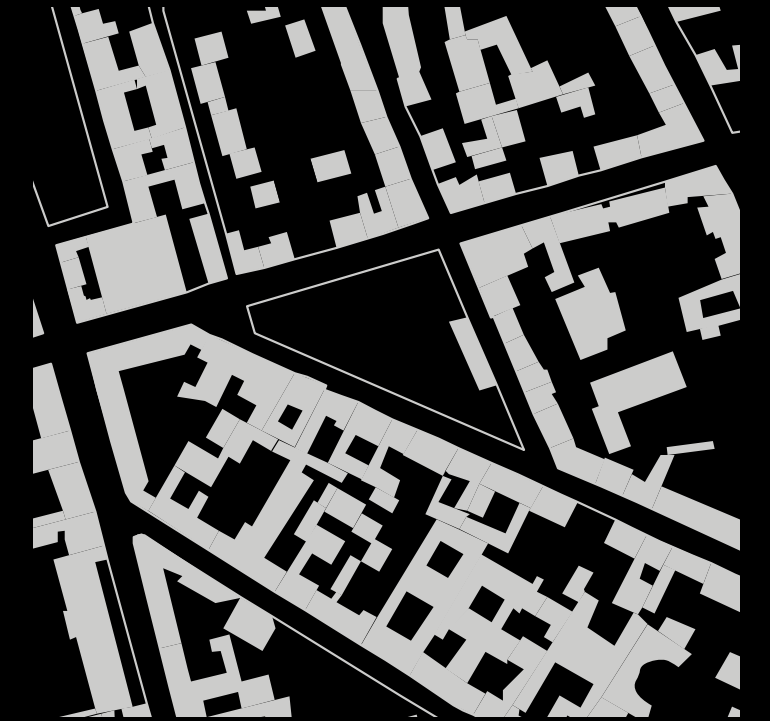
architectural practice

teaching

research

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Auguststrasse 51 Berlin, 2009



Marthashof Berlin, 2012

First Prize 2006

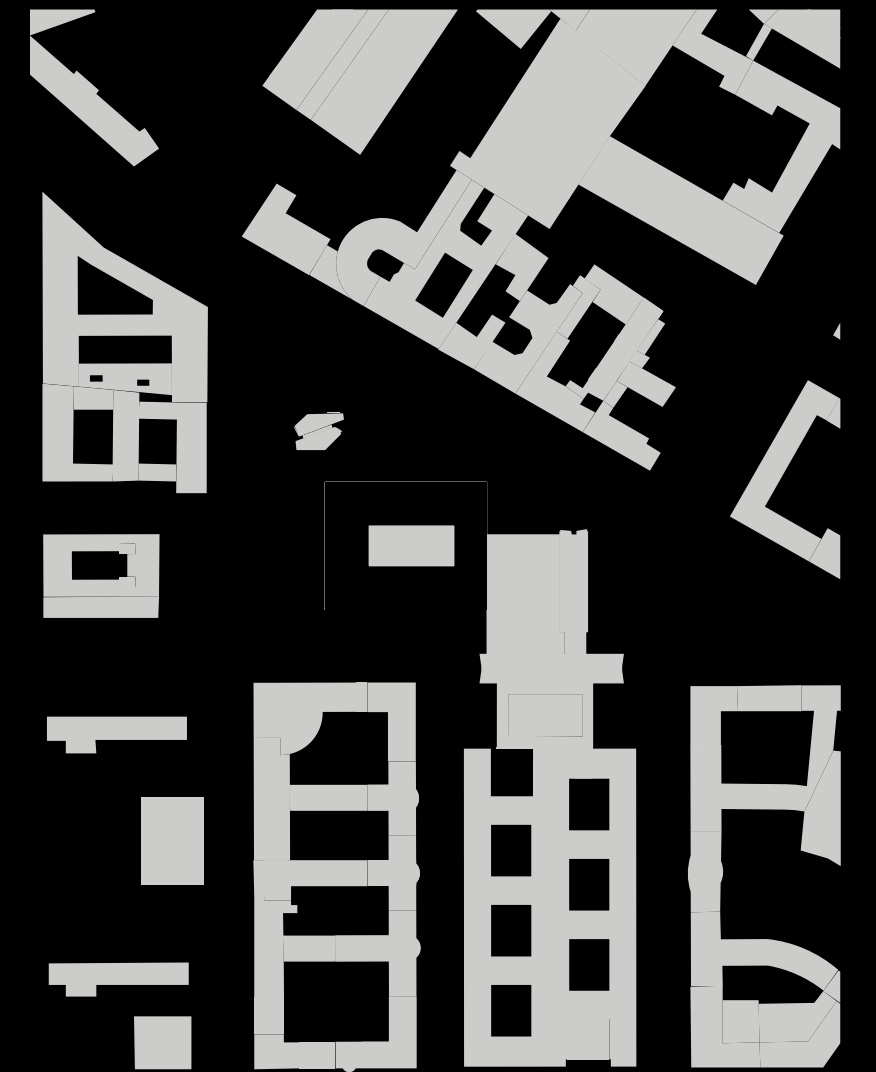


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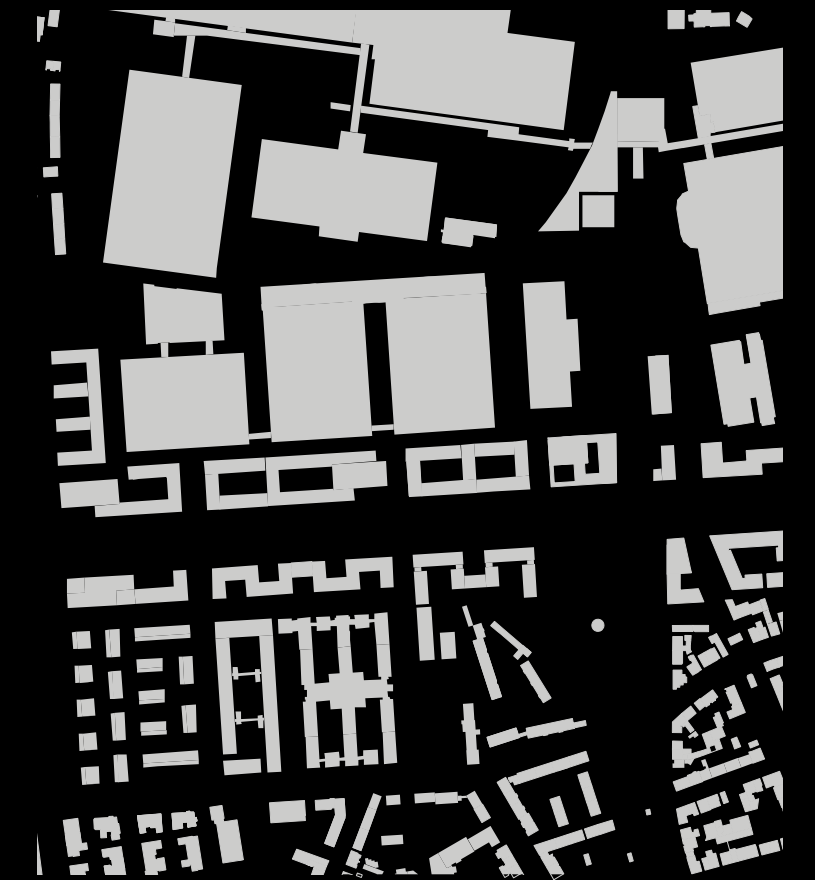
Axel Springer Campus Berlin

Shortlist 2015



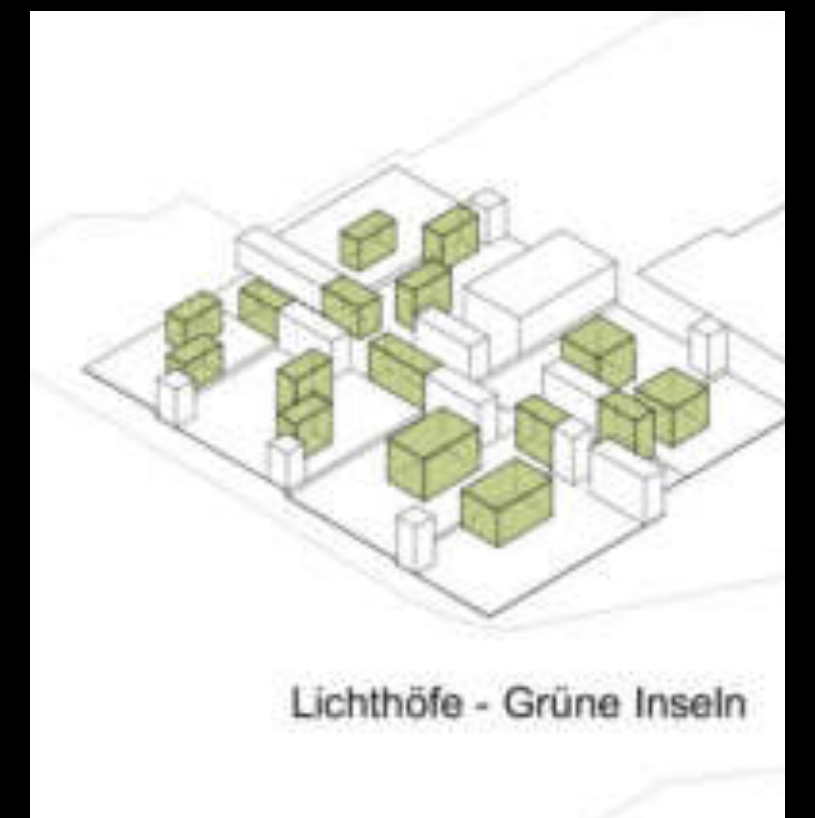
Porsche Design Tower Frankfurt

First Prize 2014



Balluff Campus Neuhausen

First Prize 2017



Time Layers, Material Traces and Nature in the City



Hotel Wilmina, Kantstraße 79

Bauherr: Wilmina GmbH

Fachplaner: Ingenieurbüro Weltzer, Berlin (Haustechnik)

GTB-Berlin Gesellschaft für Technik am Bau, Berlin (Tragwerksplanung)

StudioC Nicole Zahner, Berlin (Tragwerksplanung)

Marc Pouzol (atelier le balto) und Christian Meyer

(Beratung in Fragen der Freianlagen und Gartengestaltung)

Fotos: Grüntuch Ernst Architekten, Patricia Parinejad, Markus Gröteke

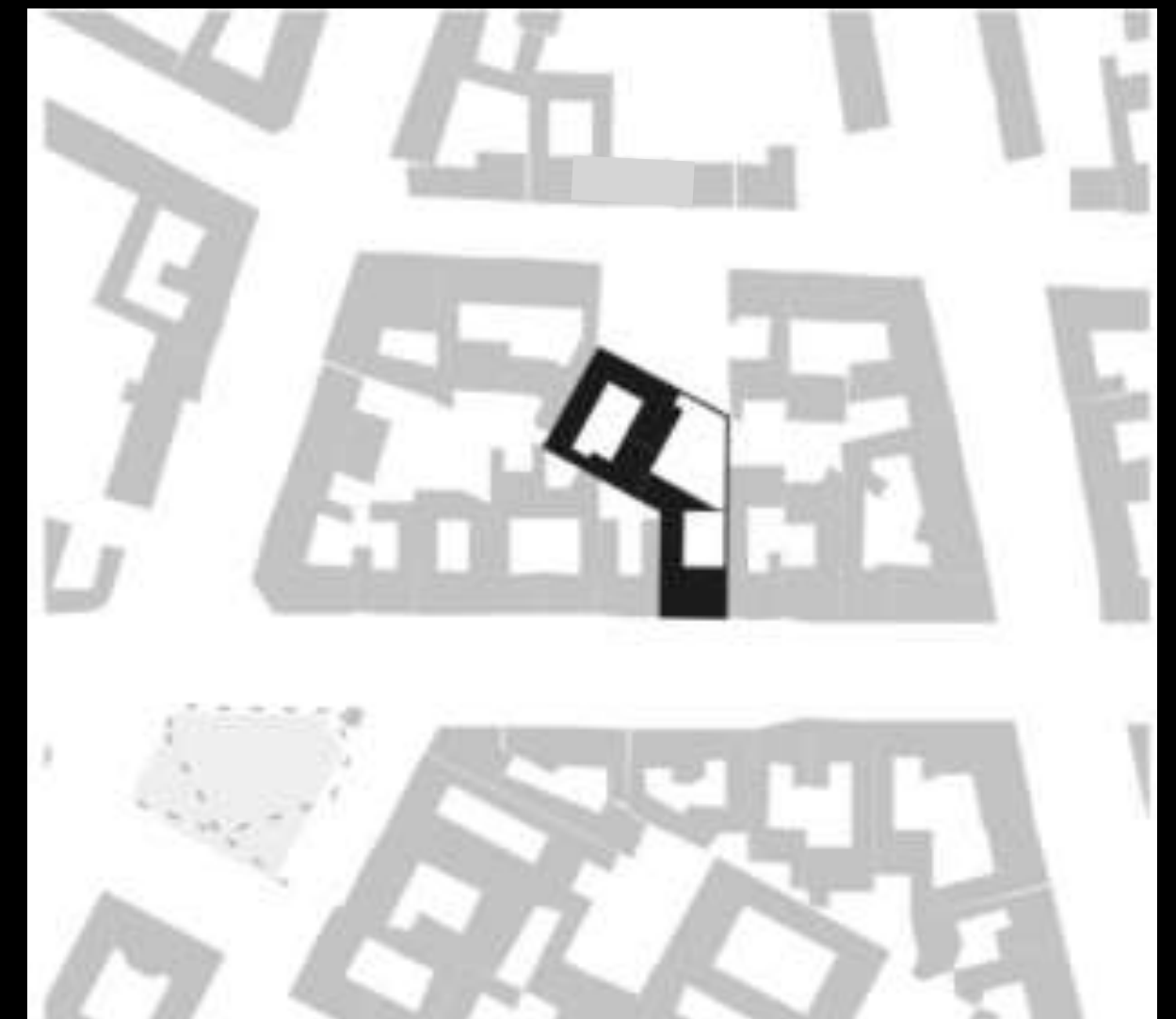
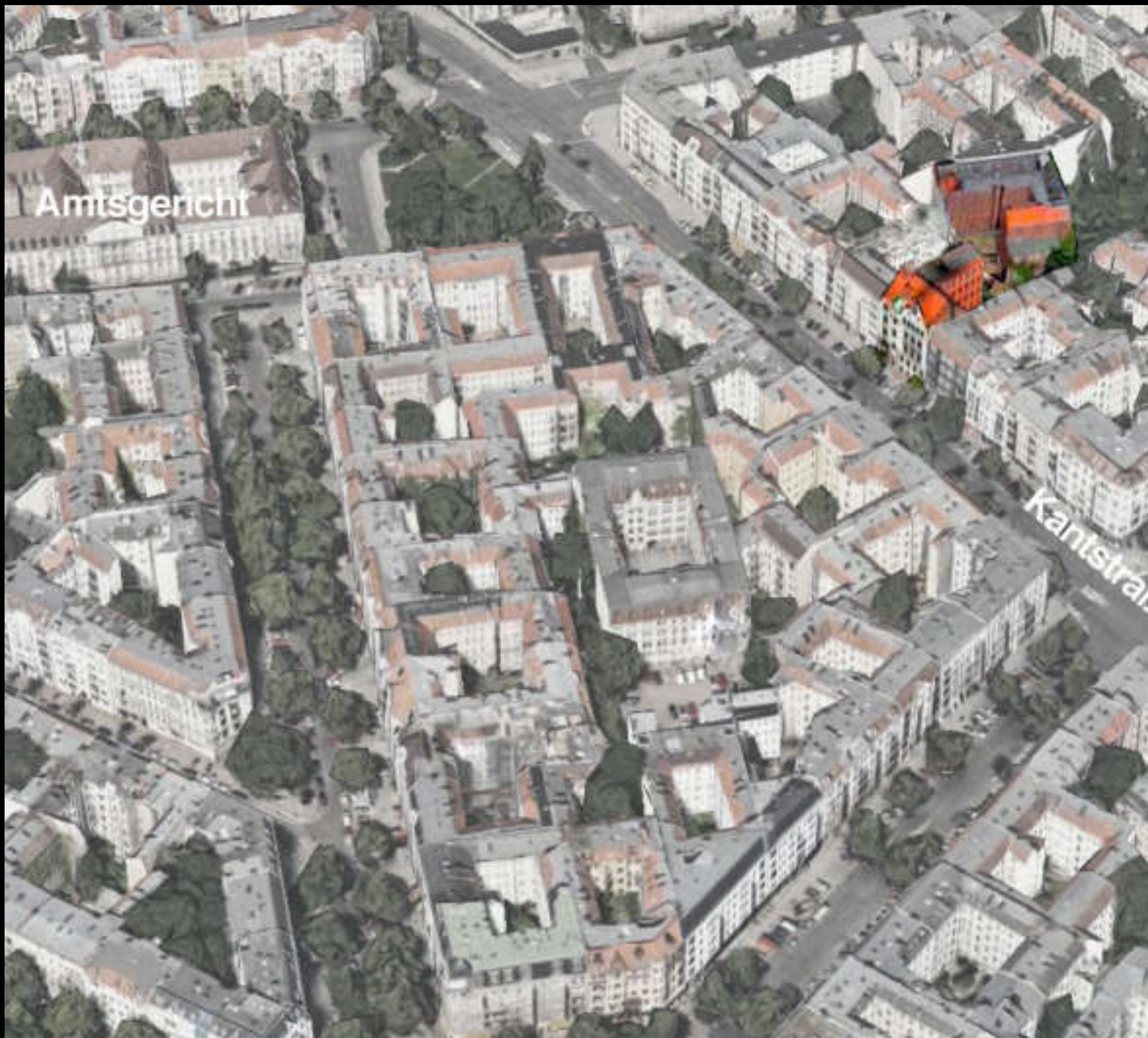
www.wilmina.com

Elektrizitätswerk 1900



Strafgericht 1896







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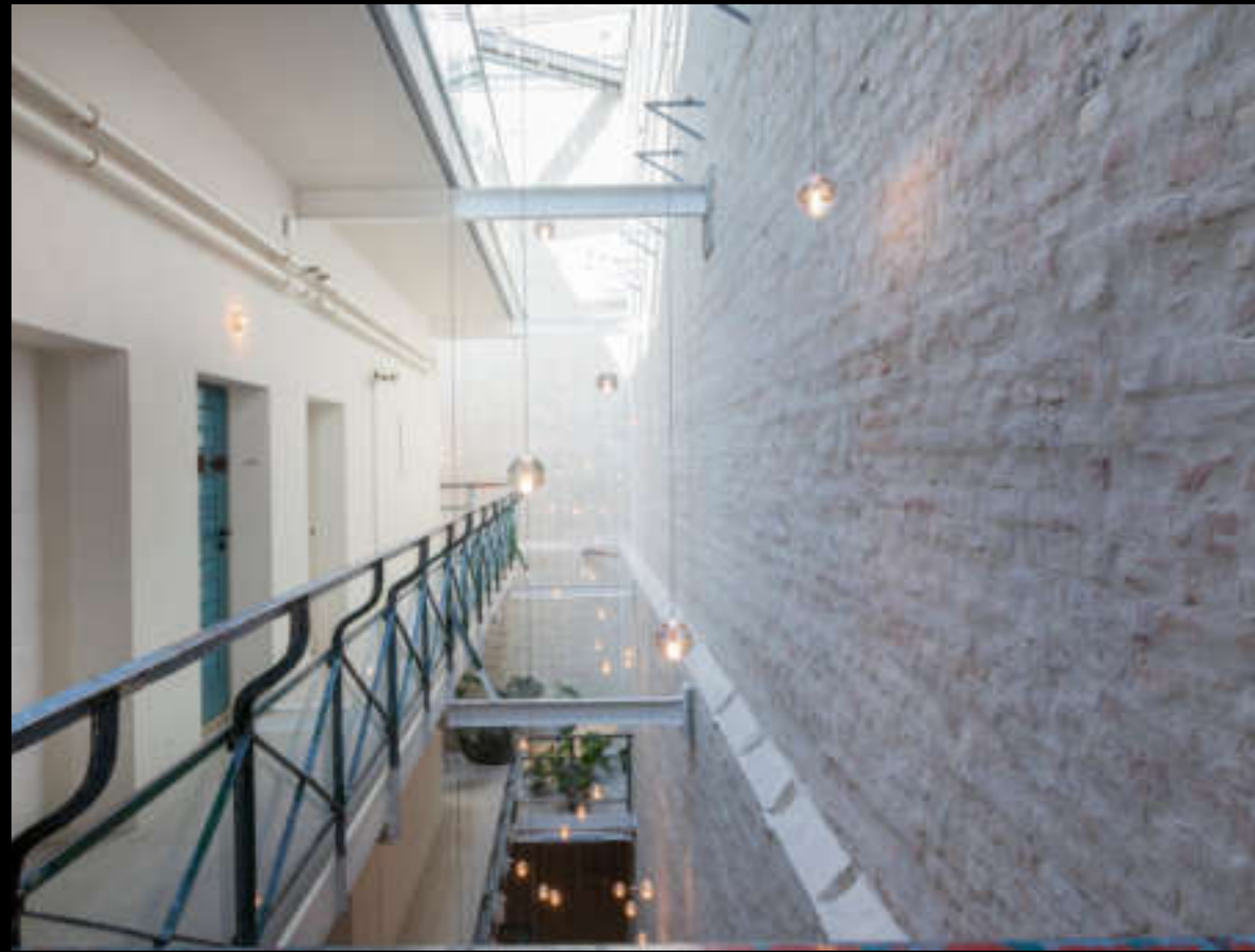
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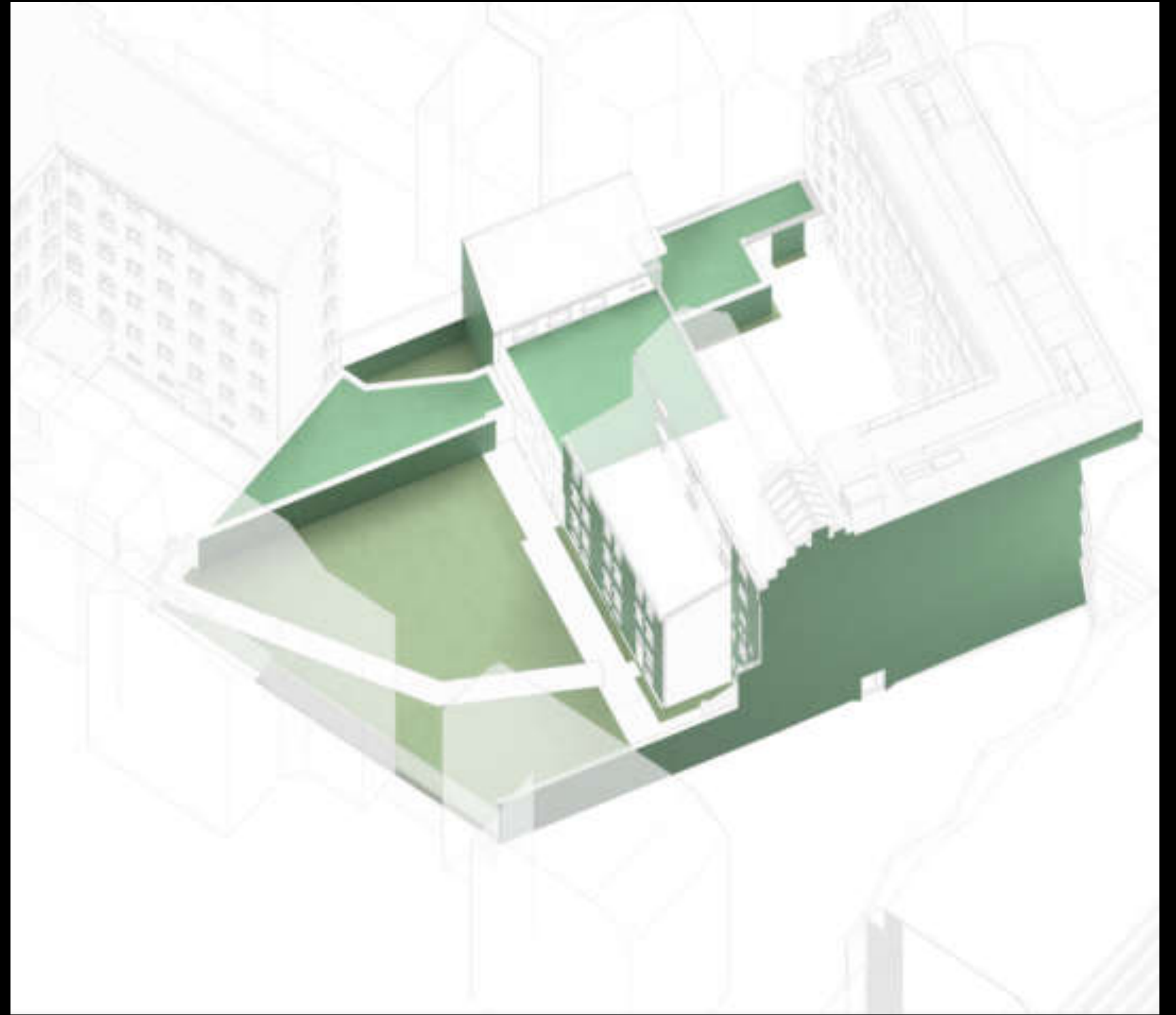
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Bürohaus Darwinstraße

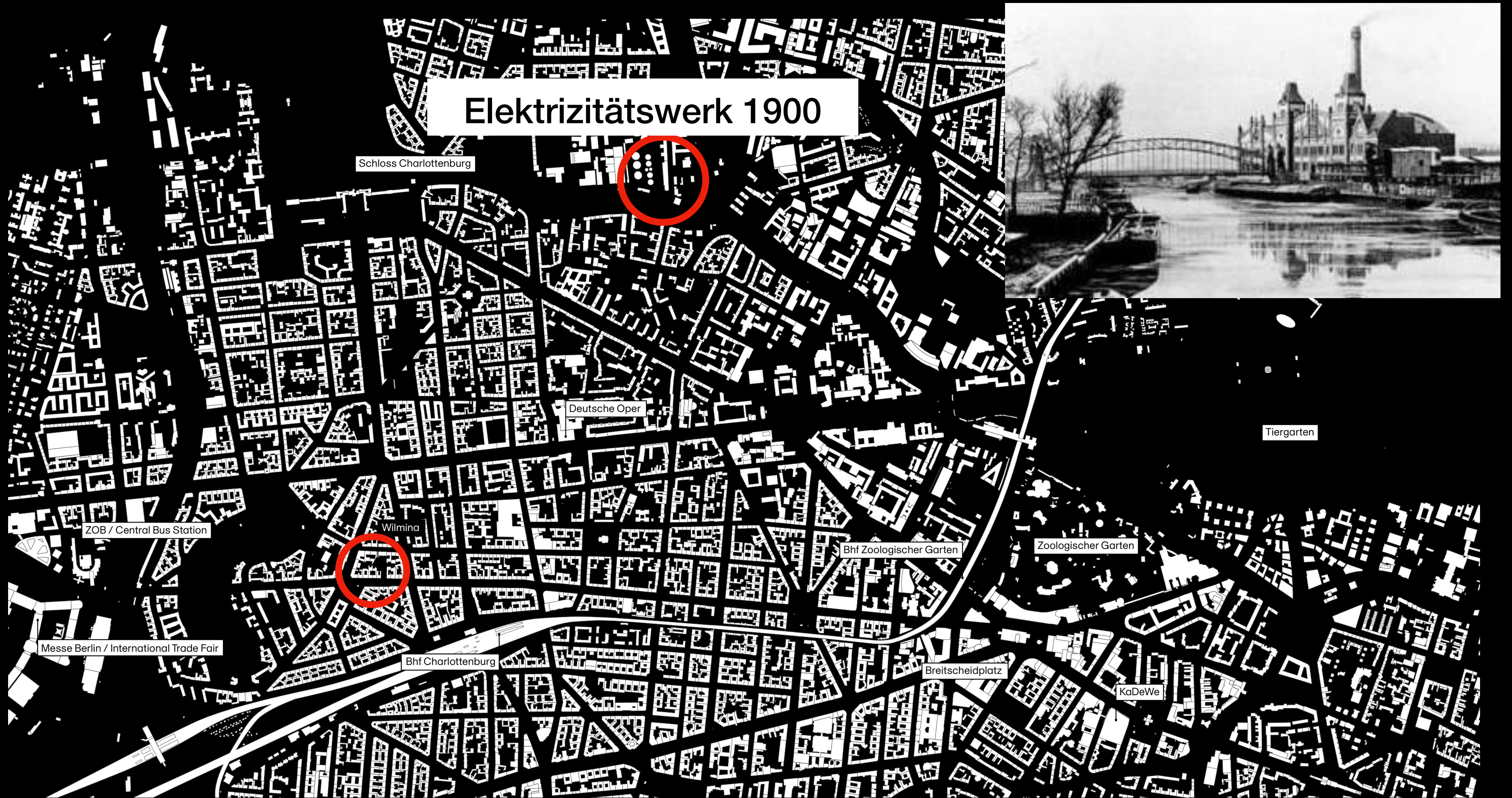
Bauherr: BAUWENS Development Berlin GmbH

Fachplaner: capattistaubach urbane landschaften, Berlin (Freianlagen)

A.R.T. GmbH, Magdeburg (Tragwerksplanung)

Ingenieurbüro Liebert Versorgungstechnik GmbH & Co. KG, Berlin (TGA)

Elektrizitätswerk 1900





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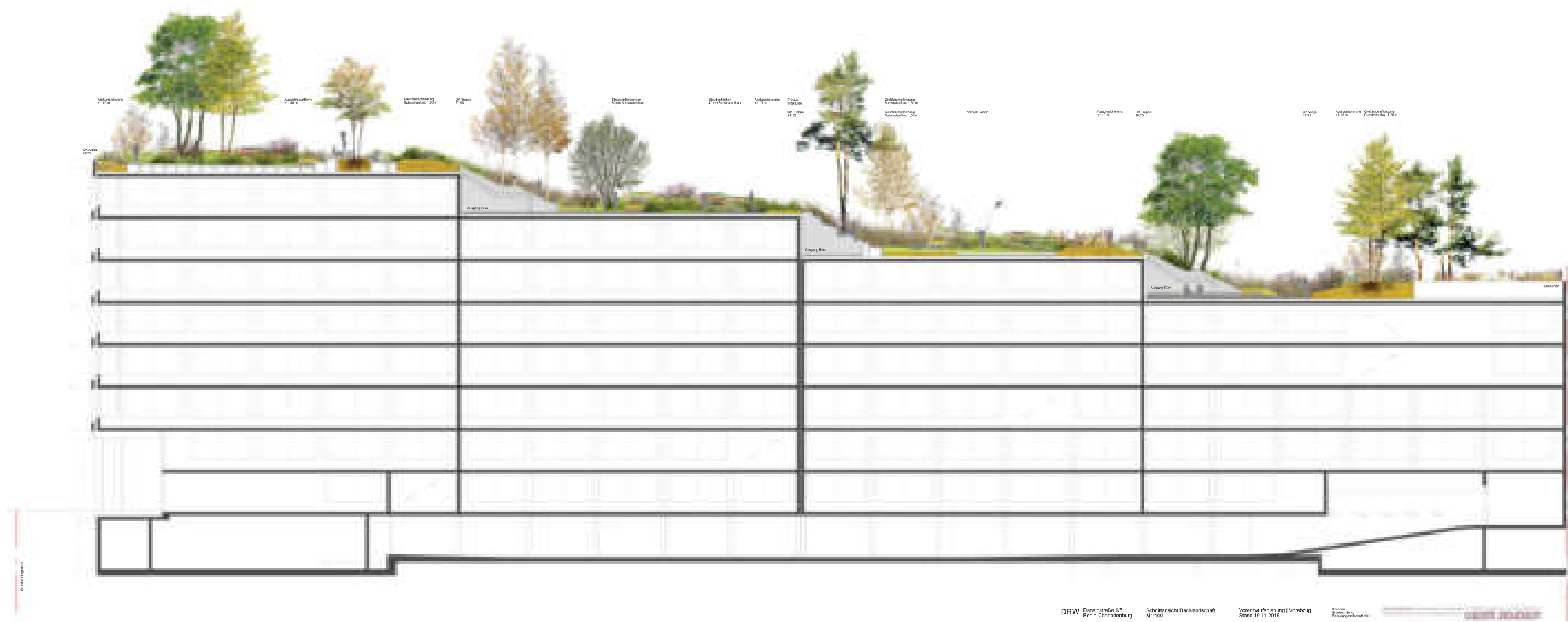


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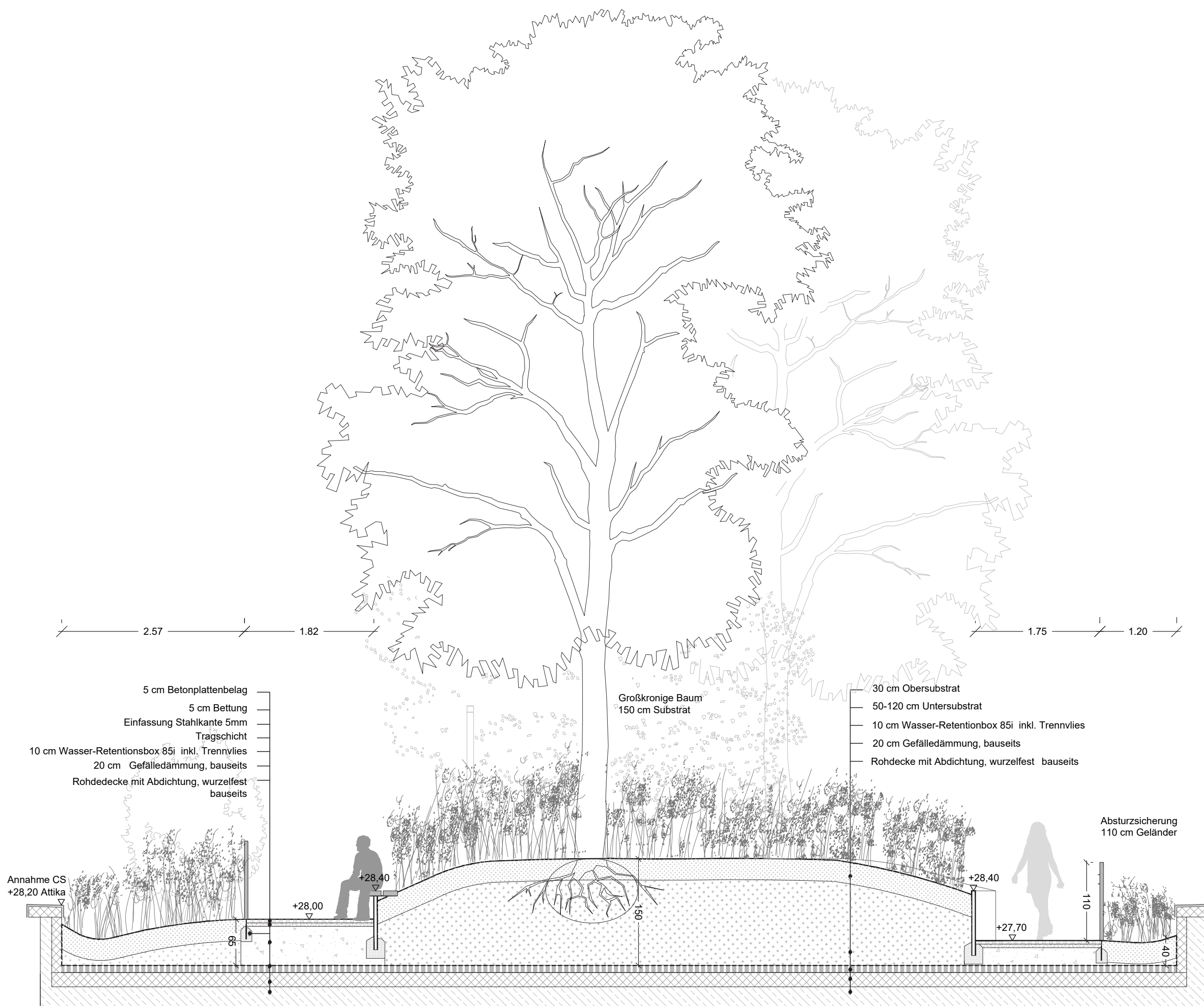


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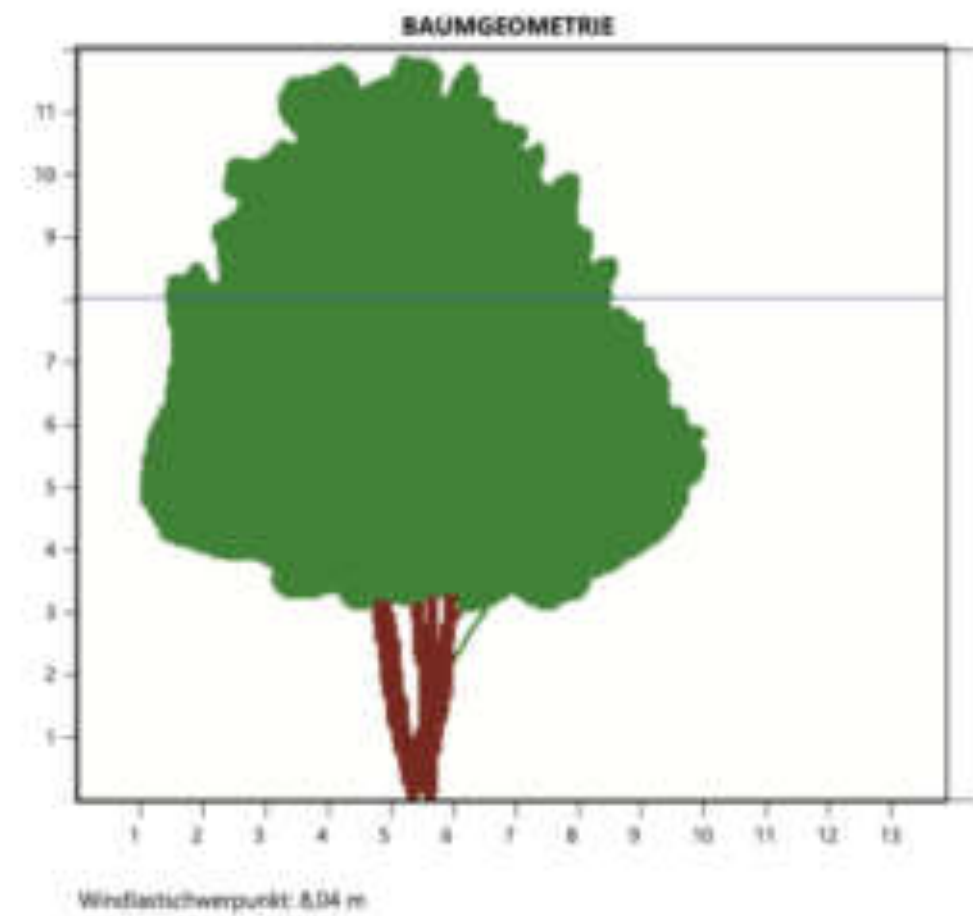
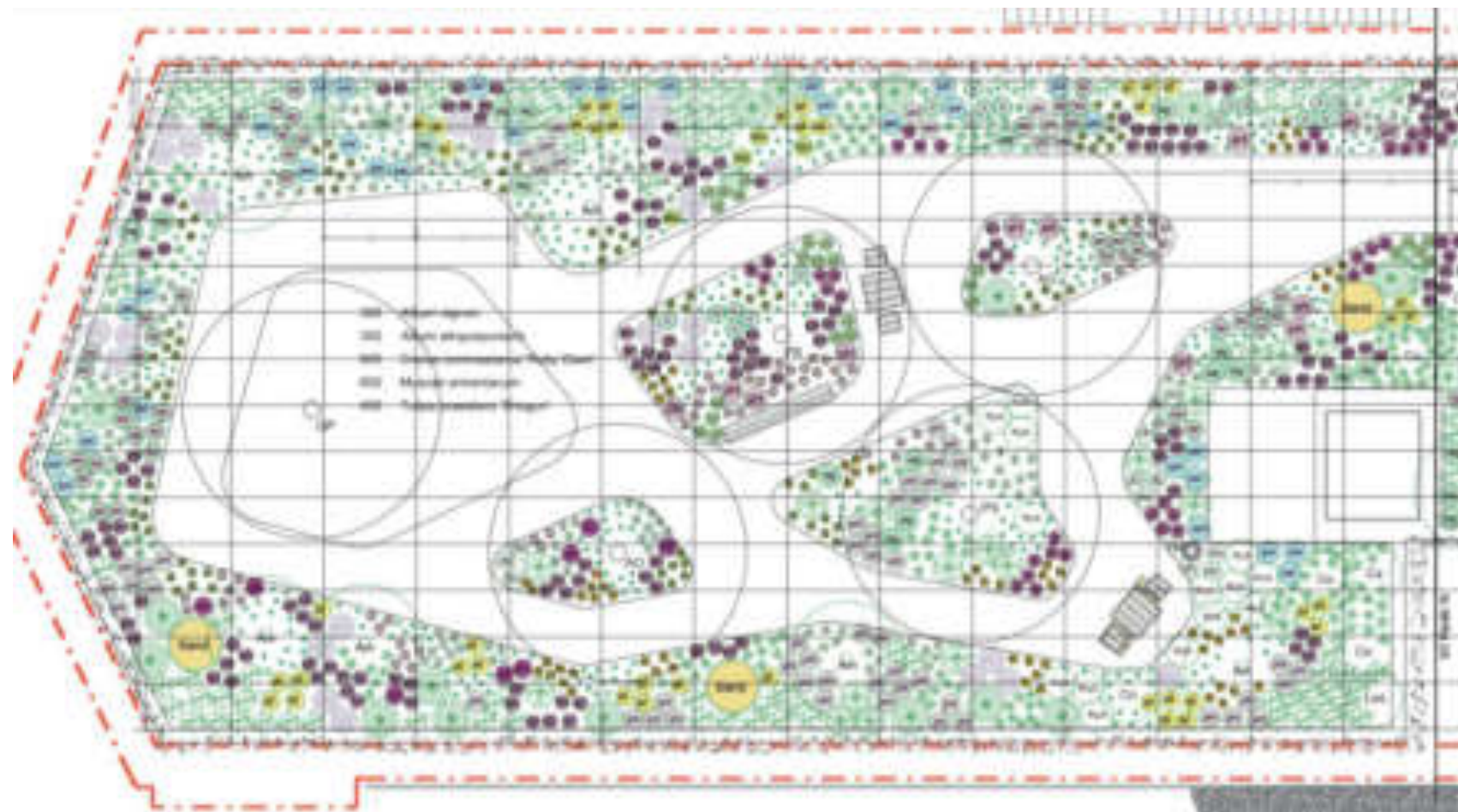
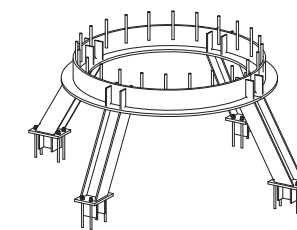
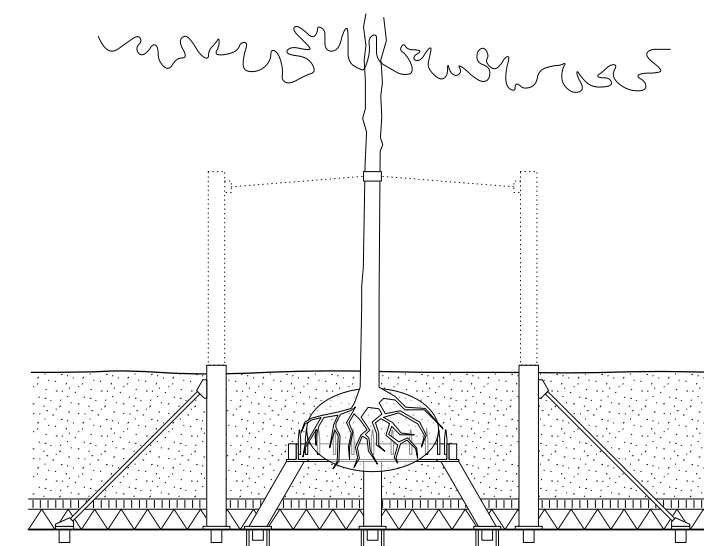
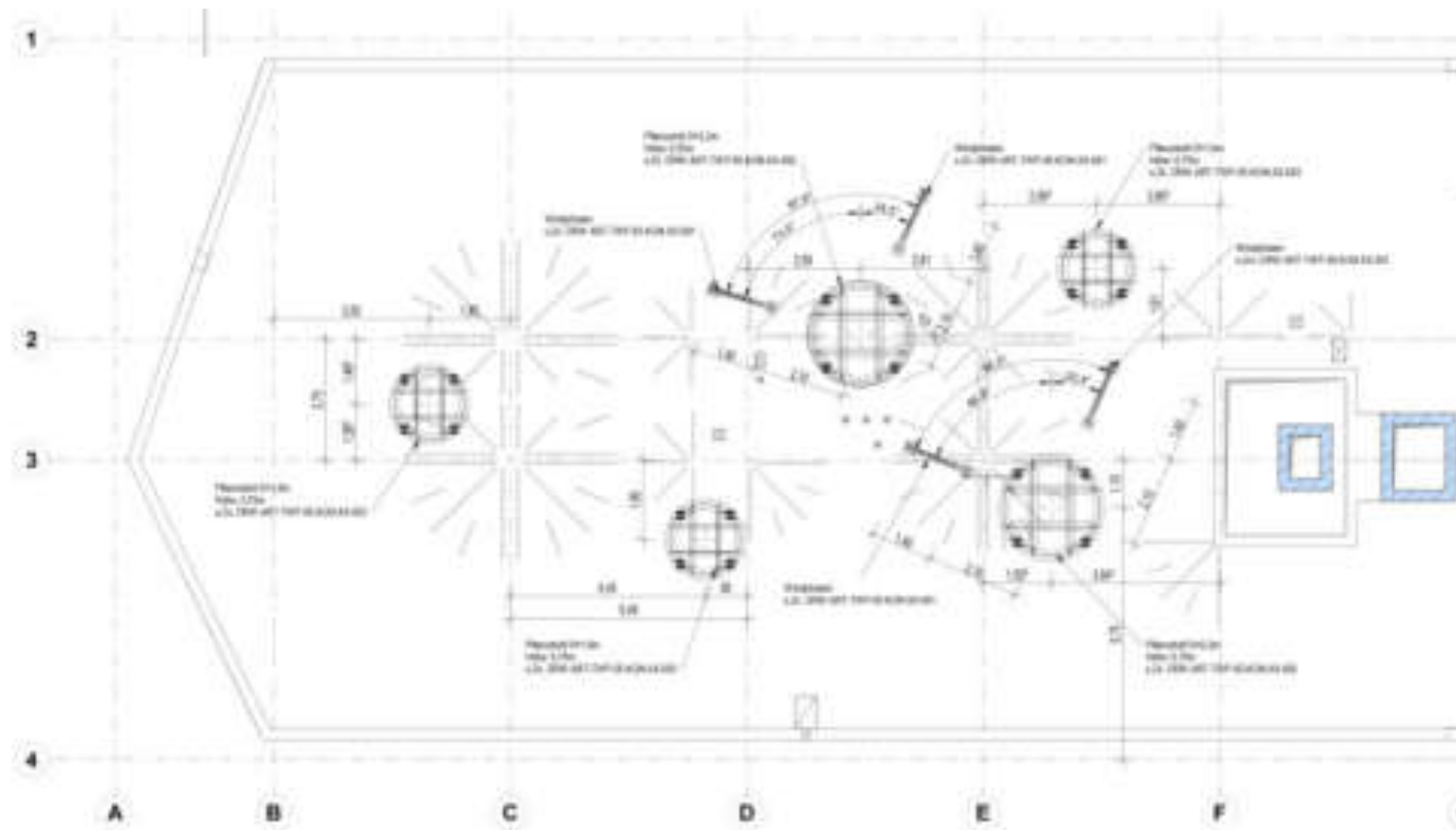
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DRW Darwinstraße 1/5
 Berlin-Charlottenburg
 Schütterschacht Dachlandschaft
 M1:100
 Vorentwurfsplanung | Vorabzug
 Stand 19.11.2019
 Datum:
 2019.11.19
 Planungsnummer: 001



Darwinstraße_capatti-staubach_Schnittansicht AA.pdf





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Univ. Prof. Dipl.-Ing. BDA

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[+49531 391-944-00](http://+49531%20391-944-00) www.idas.tu-bs.de