


ADAPTABLE BUNDESTAG COMPLEX



P5 PRESENTATION
COMPLEX PROJECTS
ING. J.C.L. LEROY GÖRES



COMPLEX PROJECTS

ADAPTABLE BUNDESTAG COMPLEX

P5 Graduation presentation

ing. J.C.L. Leroy Göres

04/07/2024

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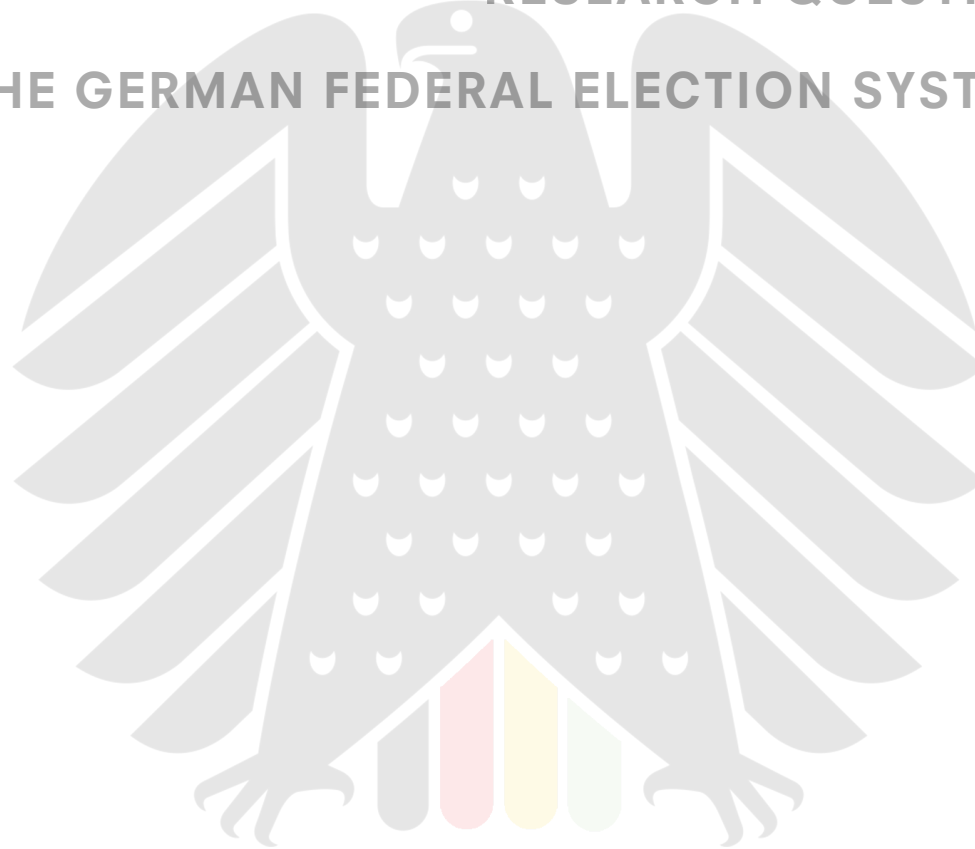
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INTRODUCTION

PROJECT INTRODUCTION

RESEARCH QUESTION

THE GERMAN FEDERAL ELECTION SYSTEM



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Project introduction

WHAT IS THE BUNDESTAG



Project introduction


WHAT IS THE BUNDESTAG



THE GERMAN FEDERAL PARLIAMENT
HAS 736 REPRESENTATIVES
ONLY FEDERAL BODY DIRECTLY
CHOSEN BY THE GERMANS

Project introduction


WHAT IS THE BUNDESTAG



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Project introduction

WHAT IS THE BUNDESTAG



**THE GERMAN FEDERAL PARLIAMENT
HAS 736 REPRESENTATIVES
ONLY FEDERAL BODY DIRECTLY
CHOSEN BY THE GERMANS**

Project introduction

HISTORY OF THE BUNDESTAG



Project introduction

HISTORY OF THE BUNDESTAG

**THE SUCCESSOR TO THE REICHSTAG
MET FOR THE FIRST TIME IN 1949**



Project introduction

HISTORY OF THE BUNDESTAG

THE SUCCESSOR TO THE REICHSTAG
MET FOR THE FIRST TIME IN 1949



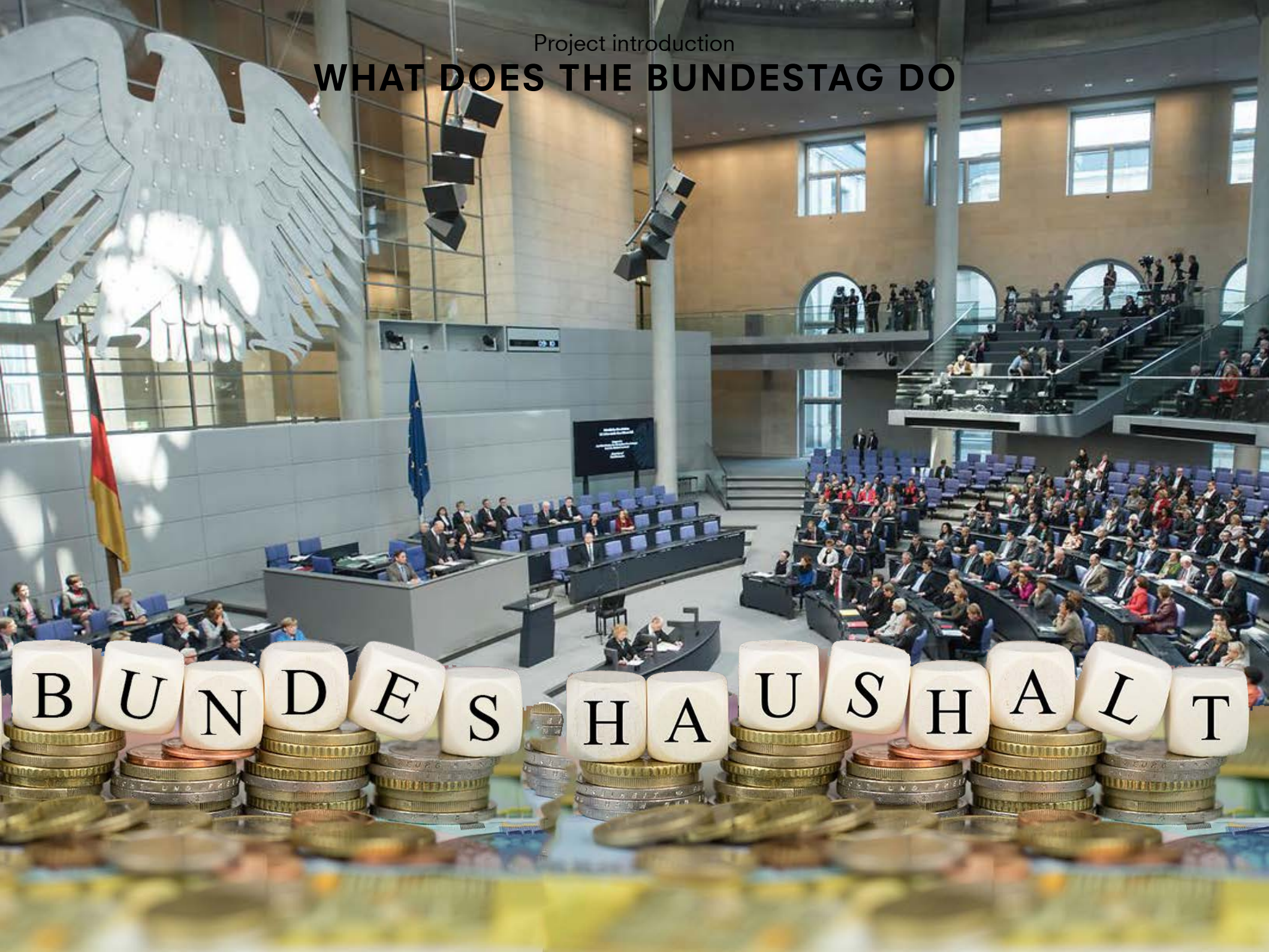
Project introduction

WHAT DOES THE BUNDESTAG DO



Project introduction

WHAT DOES THE BUNDESTAG DO



BUNDES HAUSHALT

Project introduction

WHAT DOES THE BUNDESTAG DO

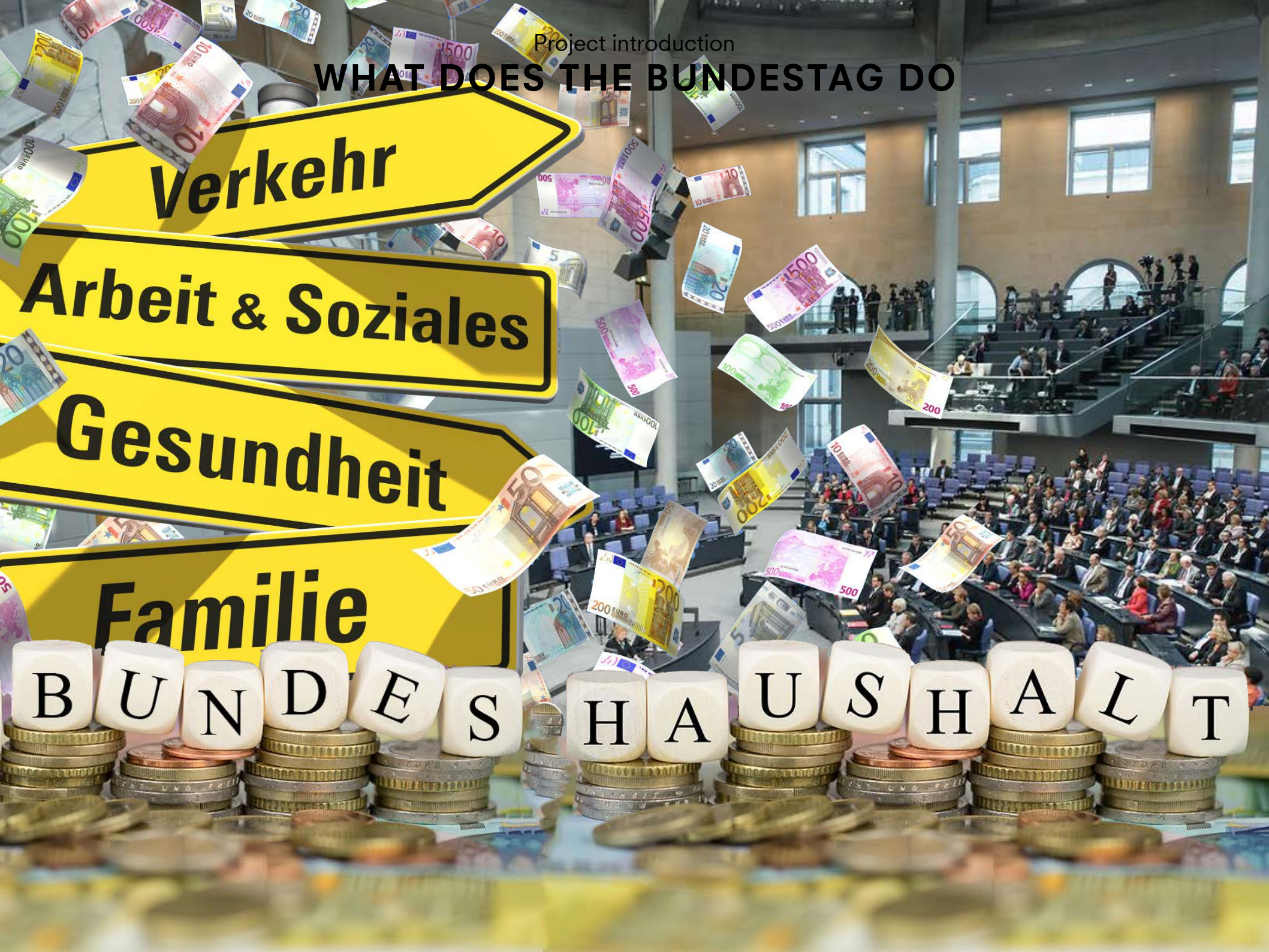
Verkehr

Arbeit & Soziales

Gesundheit

Familie

B U N D E S H A U S H A L T



Project introduction

WHAT DOES THE BUNDESTAG DO

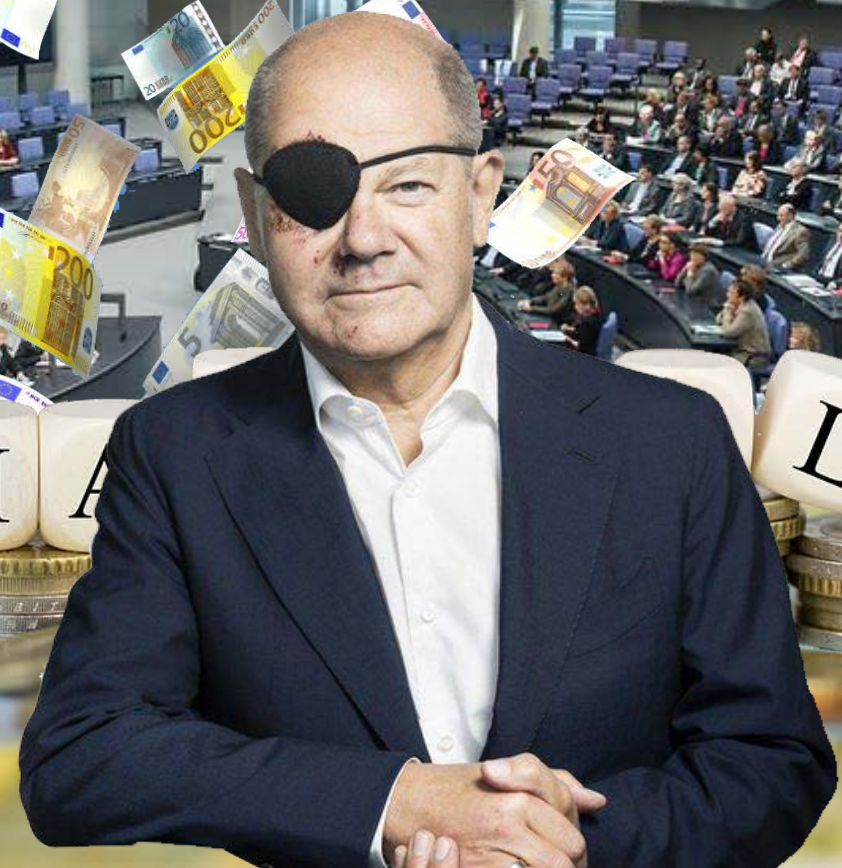
Verkehr

Arbeit & Soziales

Gesundheit

Familie

B U N D E S H A L T



Project introduction

THE BUNDESTAG BUILDING



Project introduction

THE BUNDESTAG BUILDING



**PLENARY HALL IN THE OLD
REICHSTAG BUILDING**
FAMOUS AND TUMULTUOUS HISTORY
OVER 2 MILLION VISITORS PER YEAR

Project introduction

THE BUNDESTAG BUILDING



PLENARY HALL IN THE OLD
REICHSTAG BUILDING
FAMOUS AND TUMULTUOUS HISTORY
OVER 2 MILLION VISITORS PER YEAR

Project introduction

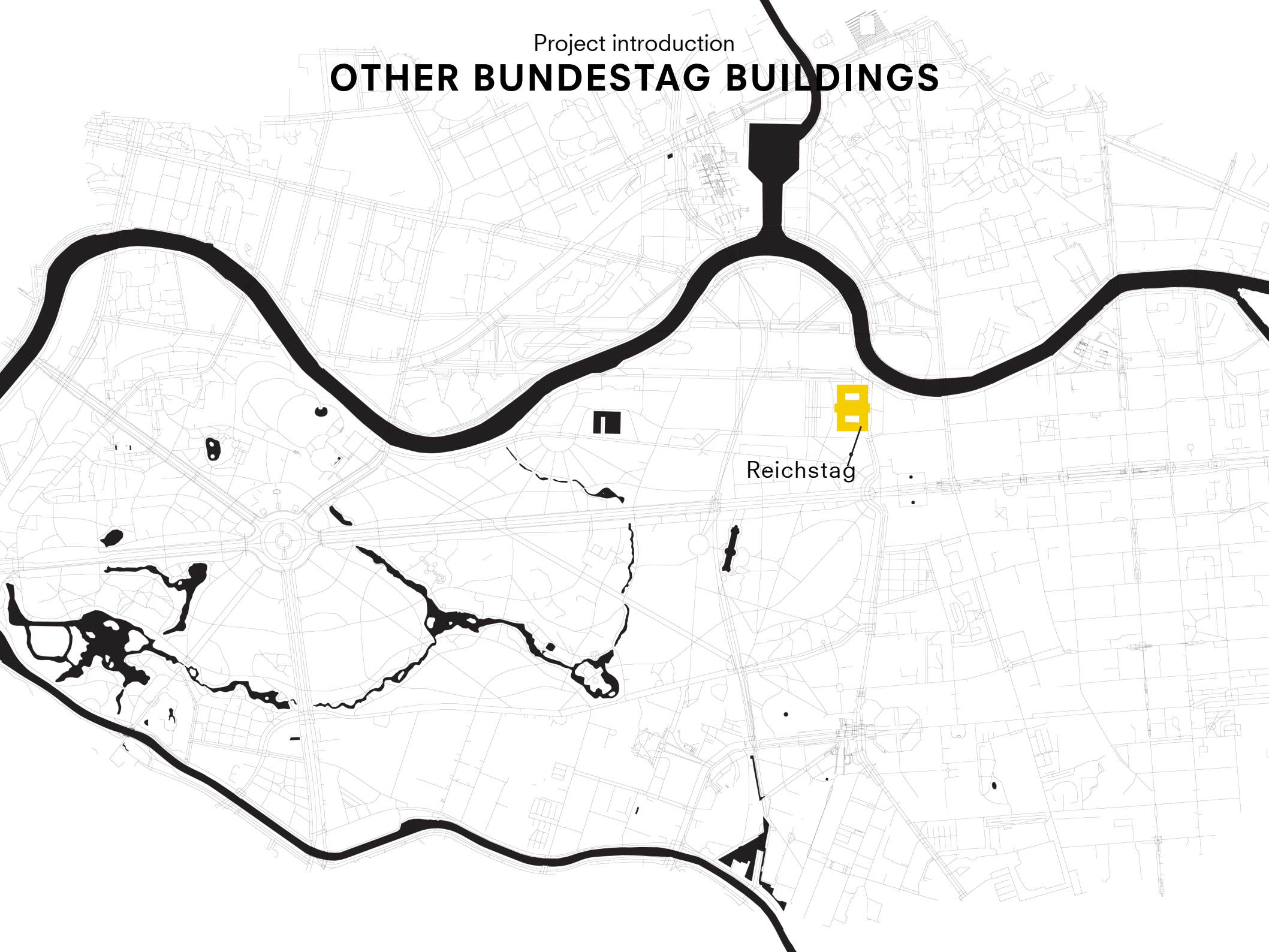
THE BUNDESTAG BUILDING



PLENARY HALL IN THE OLD
REICHSTAG BUILDING
FAMOUS AND TUMULTUOUS HISTORY
OVER 2 MILLION VISITORS PER YEAR

Project introduction

OTHER BUNDESTAG BUILDINGS

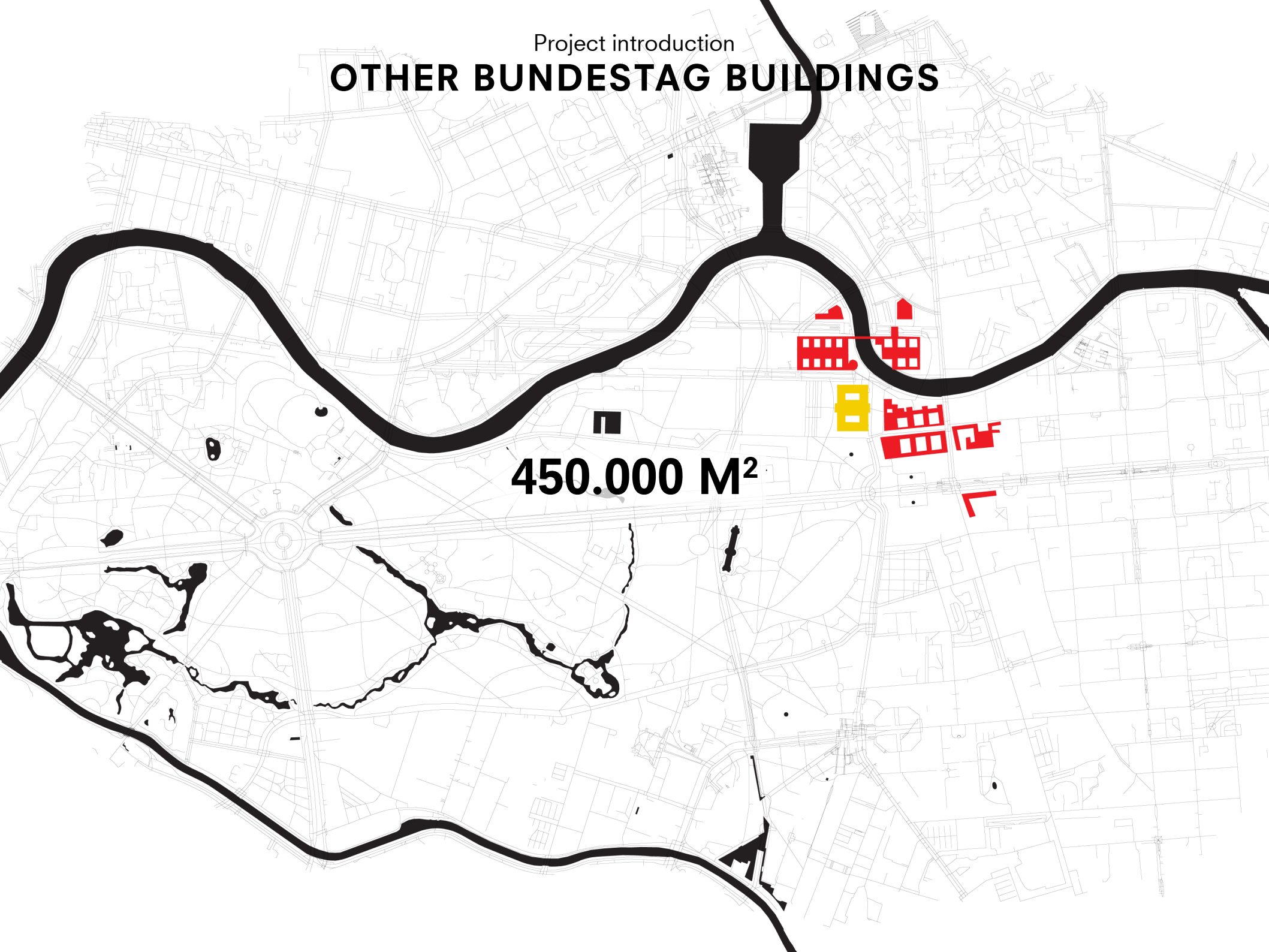


Reichstag

Project introduction

OTHER BUNDESTAG BUILDINGS

450.000 M²



Project introduction

SIZE OF THE BUNDESTAG



Project introduction

SIZE OF THE BUNDESTAG

6.000 OFFICES



Project introduction

SIZE OF THE BUNDESTAG



Project introduction

SIZE OF THE BUNDESTAG

ALMOST 10.000 EMPLOYEES

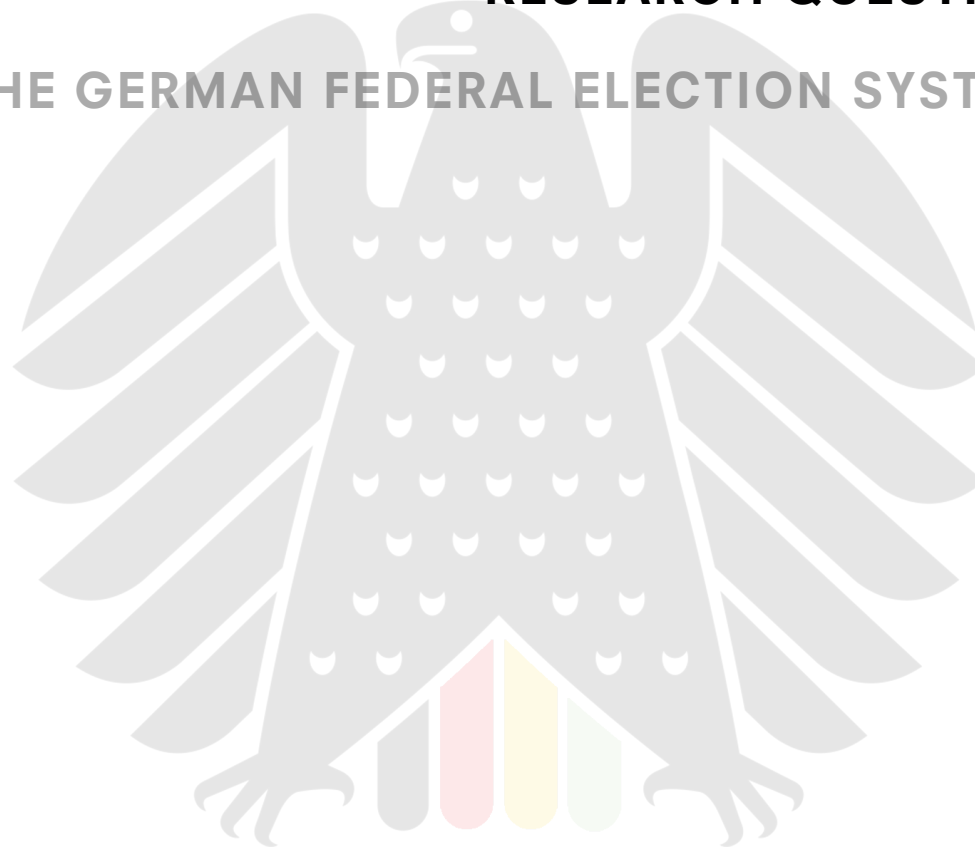


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THE GERMAN FEDERAL ELECTION SYSTEM



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Research question

MAIN RESEARCH QUESTION



Research question

MAIN RESEARCH QUESTION

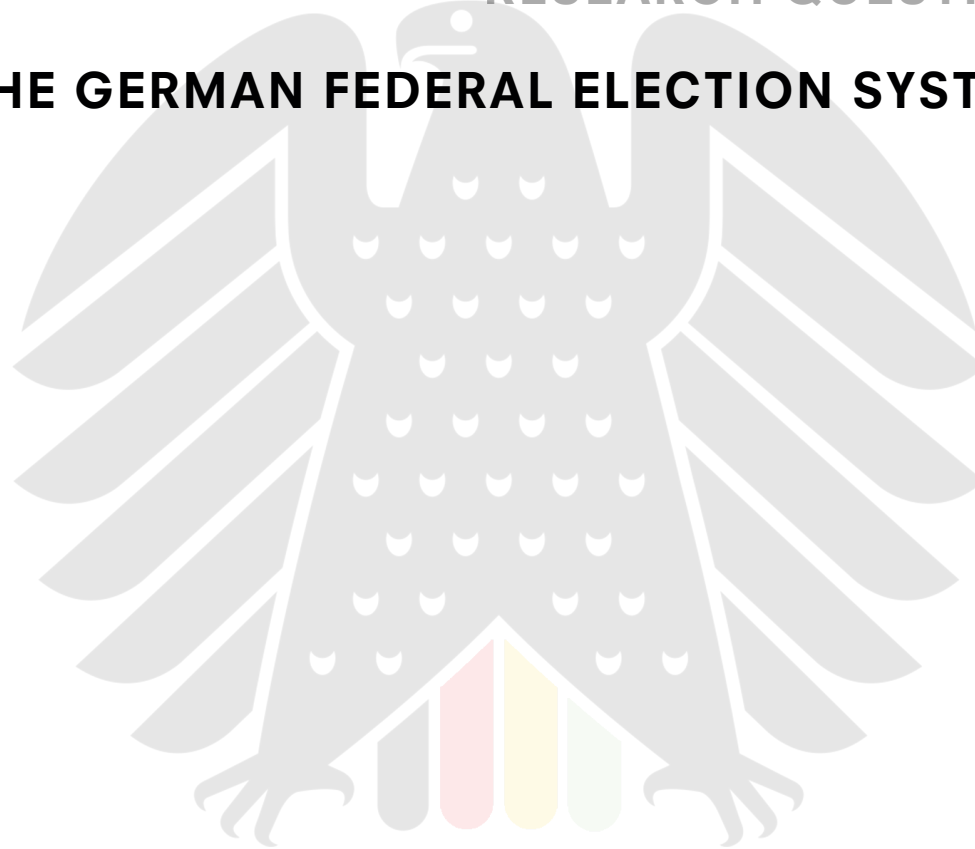
*"HOW TO DESIGN THE ADAPTABLE
BUNDESTAG PARLIAMENT OF THE FUTURE TO
SUSTAINABLE FACILITATE THE FLUCTUATING
NUMBER OF MEMBERS?"*

INTRODUCTION

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RESEARCH QUESTION

THE GERMAN FEDERAL ELECTION SYSTEM



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German Federal election system

THE GERMAN FEDERAL ELECTION SYSTEM

Sie haben 2 Stimmen

hier 1 Stimme
für die Wahl
eines/einer
Wahlkreisabgeordneten

hier 1 Stimme
für die Wahl
einer Landesliste (Partei)
- maßgebende Stimme für die Verteilung
Sitze insgesamt auf die einzelnen Parteien

Erststimme

Marschall von Bieberstein, Matern MdB, Verleger March	CDU Christlich Demokratische Union Deutschlands	<input type="radio"/>
Söhne, Julia wiss. Mitarbeiterin Freiburg im Breisgau	SPD Sozialdemokratische Partei Deutschlands	<input type="radio"/>
Kopf, Chantal Politikwissenschaftlerin Freiburg im Breisgau	GRÜNE BÜNDNIS 90/DIE GRÜNEN	<input type="radio"/>
Raffelhüschen, Claudia Dozentin Freiburg im Breisgau	FDP Freie Demokratische Partei	<input type="radio"/>
Näger, Marco	AfD	<input type="radio"/>

Zweitstimme

<input type="radio"/>	CDU	Christlich Demokratische Union Deutschlands Dr. Wolfgang Schäuble, Annette Andreas Jung, Steffen Bilger,
<input type="radio"/>	SPD	Sozialdemokratische Partei Deutschlands Saskia Esken, Dr. Nils Schm Dr. Martin Rosemann, Katja
<input type="radio"/>	GRÜNE	BÜNDNIS 90/DIE GRÜNEN Dr. Franziska Brantner, C Christian Kühn, Dr. Sandr
<input type="radio"/>	FDP	Freie Demokratische Partei Michael Theurer, Judith Pascal Kober, Dr. Flori
<input type="radio"/>	AfD	Alternative für De Alice Weidel, Martin

German Federal election system

THE GERMAN FEDERAL ELECTION SYSTEM

hier 1 Stimme
für die Wahl
eines/einer
Wahlkreisabgeordneten

hier 1 Stimme
für die Wahl

einer Landesliste (Part
- maßgebende Stimme für die Ver
Sitze insgesamt auf die einzelne

THE GERMAN ELECTORAL SYSTEM
COMBINES A **PERSONAL VOTE**
IN **SINGLE MEMBER DISTRICT**
WITH THE PRINCIPLE OF **FEDERAL**
PROPORTIONAL REPRESENTATION.

Marschall von

MdB, Verleger
March

Söhne, Julia

wiss. Mitarbeiterin
Freiburg im Breisgau

Kopf, Chantal,

Politikwissenschaftlerin
Freiburg im Breisgau

Raffelhüschen, Claudia

Dozentin
Freiburg im Breisgau

Näger, Marco

GRÜNE

BÜNDNIS 90/DIE GRÜ

FDP

Freie Demokratische Partei

AfD

GRÜNE

Dr. Franziska Brantner, C
Christian Kühn, Dr. Sandr

FDP

Michael Theurer, Judith
Pascal Kober, Dr. Flori

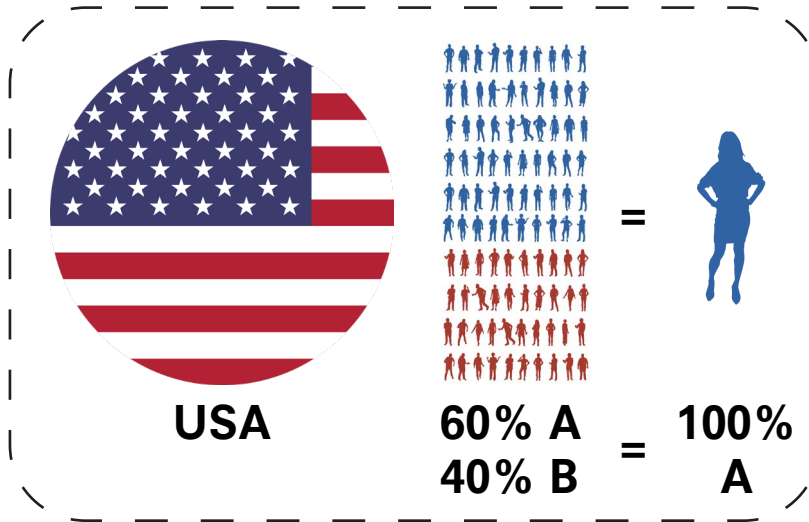
AfD

Alternative für De

Alice Weidel, Martin

THE GERMAN FEDERAL ELECTION SYSTEM

Single member district
representation



THE GERMAN FEDERAL ELECTION SYSTEM

**Single member district
representation**



USA



=



**60% A
40% B**

=

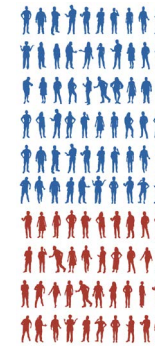
**100%
A**

+

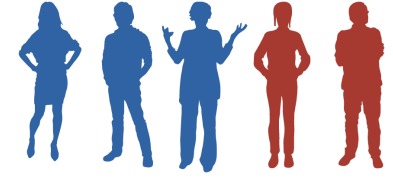
**Federal proportional
representation**



NETHERLANDS



=



**60% A
40% B**

=

**60% 40%
A B**

THE GERMAN FEDERAL ELECTION SYSTEM

Single member district
representation



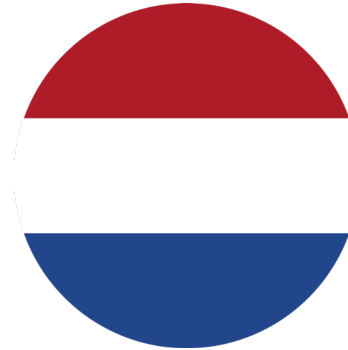
USA



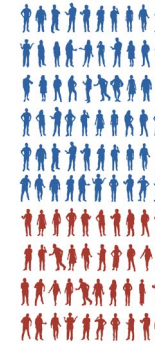
60% A
40% B = 100%
A

+

Federal proportional
representation



NETHERLANDS



60% A
40% B = 60% 40%
A B

Single member district representation
Federal proportional representation

=



GERMANY

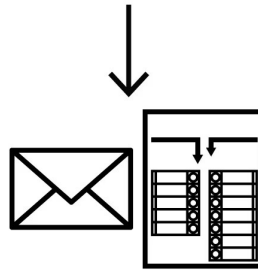


60% A
40% B = 100%
A + 60% 40%
A B



EXAMPLE VOTE

The German voters have **2 votes**



1

1st vote for a particular candidate in each **district**



Candidate 1	Party 1	<input checked="" type="radio"/>
Candidate 2	Party 2	<input type="radio"/>
Candidate 3	Party 3	<input type="radio"/>

B

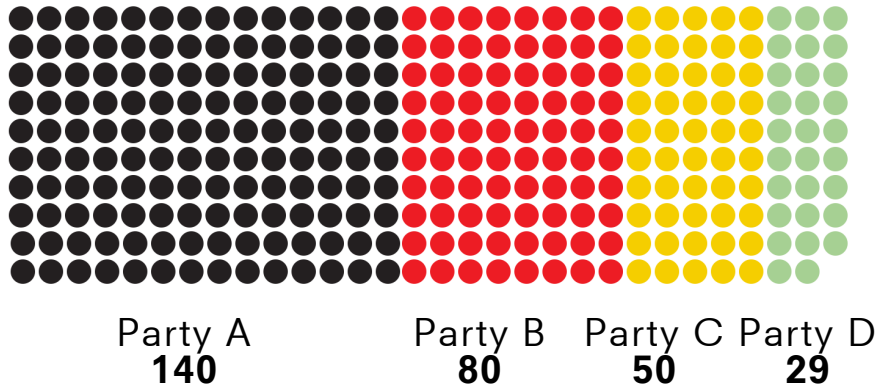
2nd vote for a party list at federal **state** level



<input checked="" type="radio"/>	Party 1	Candidate 1, candidate 2, candidate 3, candidate 4...
<input type="radio"/>	Party 2	Candidate 1, candidate 2, candidate 3, candidate 4...
<input type="radio"/>	Party 3	Candidate 1, candidate 2, candidate 3, candidate 4...

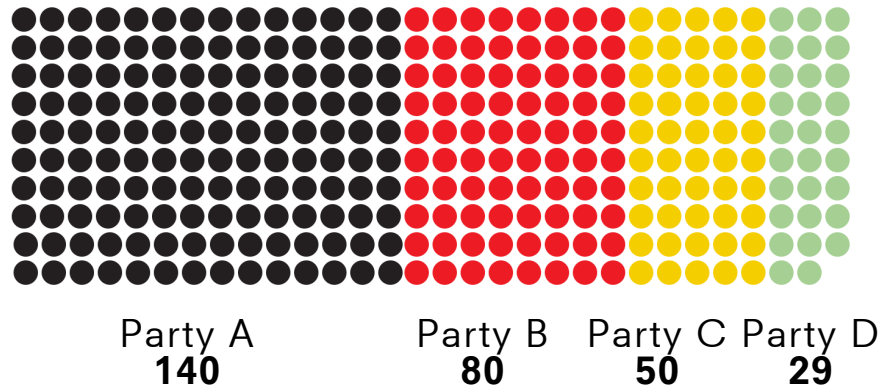
EXAMPLE VOTE

299 district representatives from the 1st vote

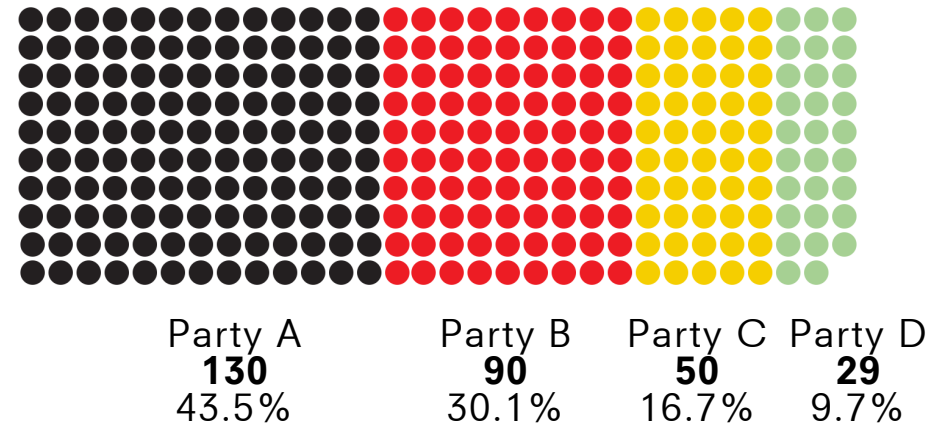


EXAMPLE VOTE

299 district representatives from the 1st vote

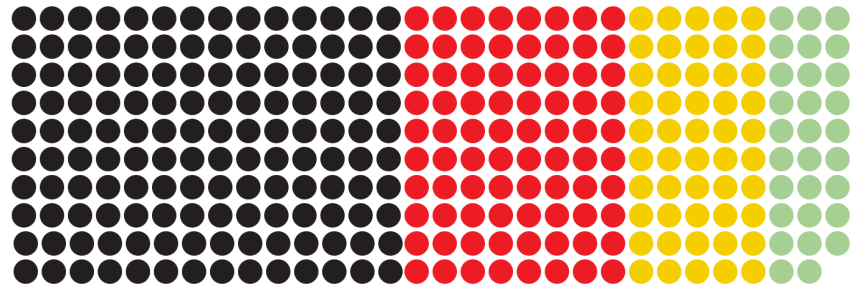


299 party representatives from the 2nd vote



EXAMPLE VOTE

299 district representatives from the 1st vote



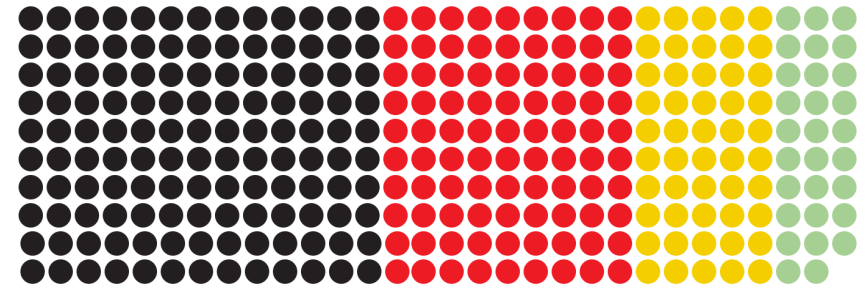
Party A
140

Party B
80

Party C
50

Party D
29

299 party representatives from the 2nd vote

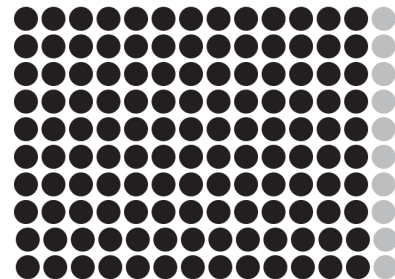
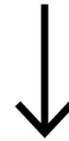


Party A
130
43.5%

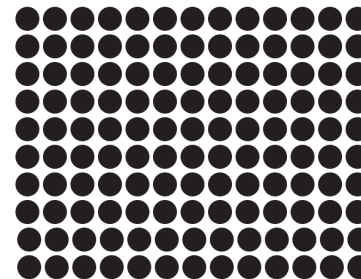
Party B
90
30.1%

Party C
50
16.7%

Party D
29
9.7%



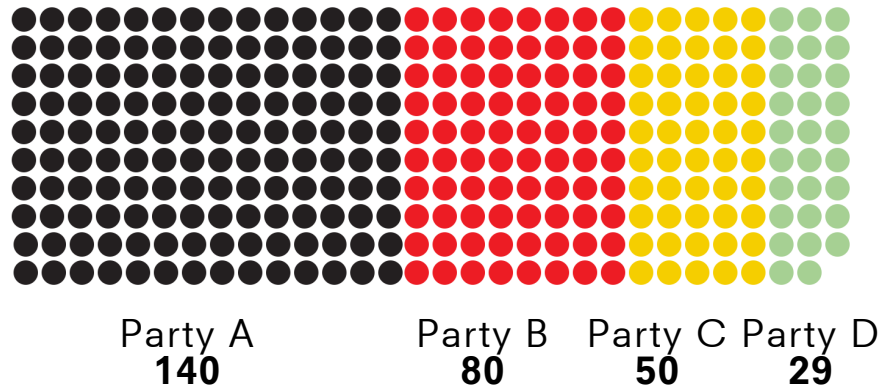
140



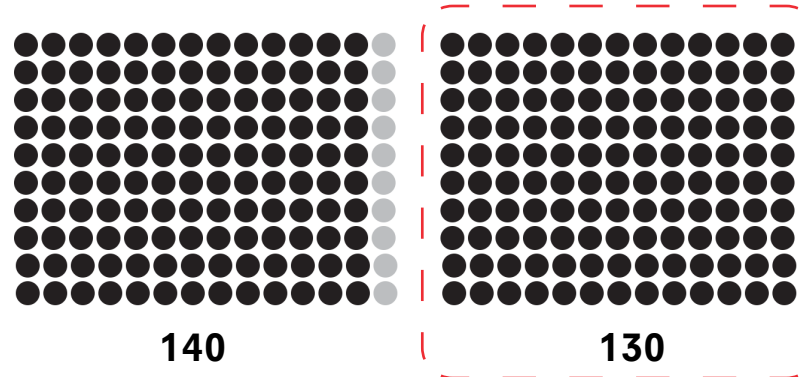
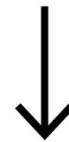
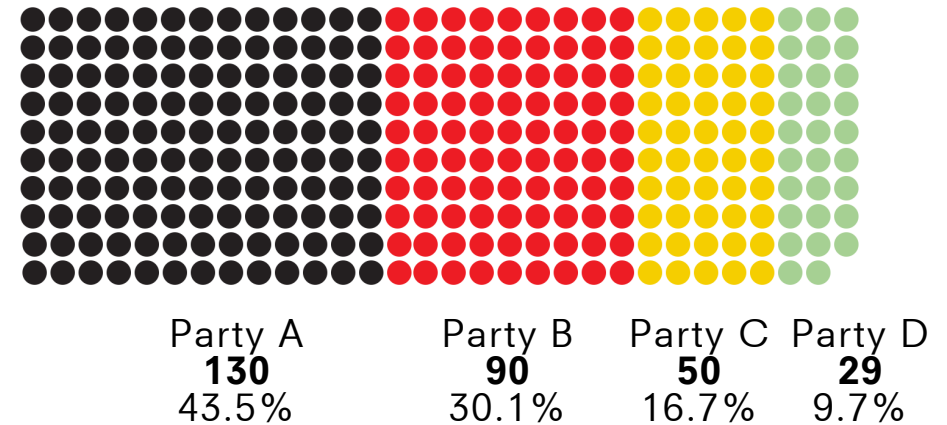
130

EXAMPLE VOTE

299 district representatives from the 1st vote



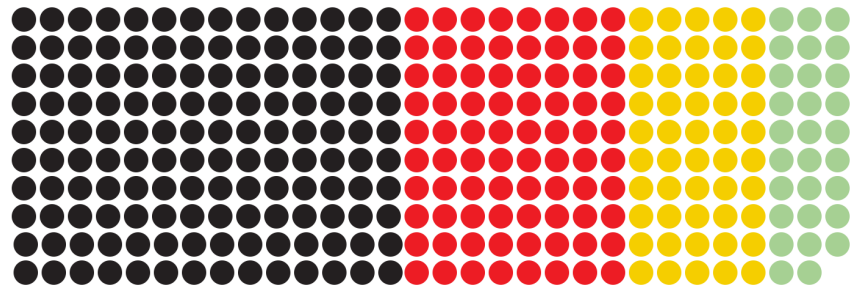
299 party representatives from the 2nd vote



Leading in
Bundestag
size

EXAMPLE VOTE

299 district representatives from the 1st vote



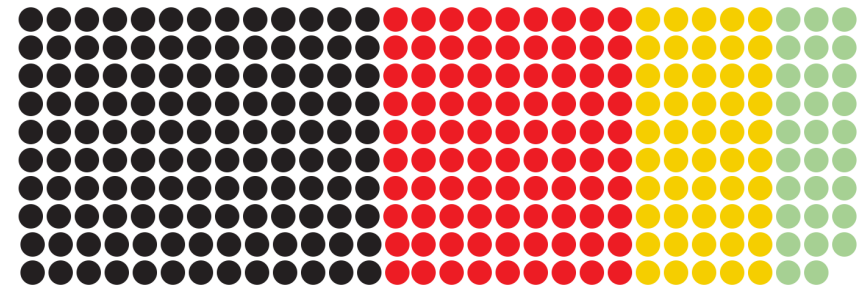
Party A
140

Party B
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Party C
50

Party D
29

299 party representatives from the 2nd vote

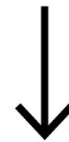


Party A
130
43.5%

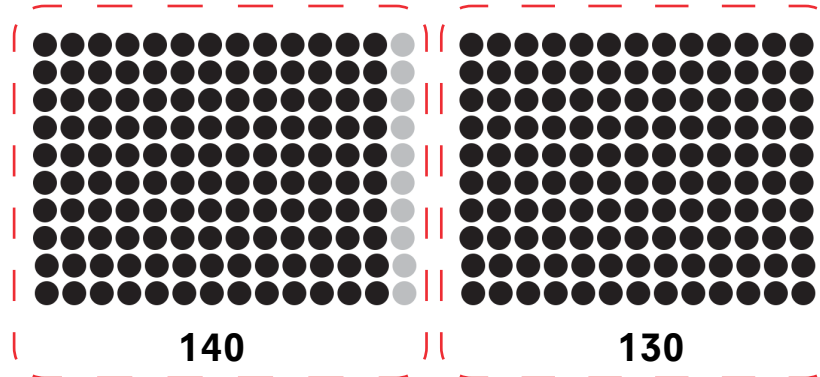
Party B
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30.1%

Party C
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16.7%

Party D
29
9.7%



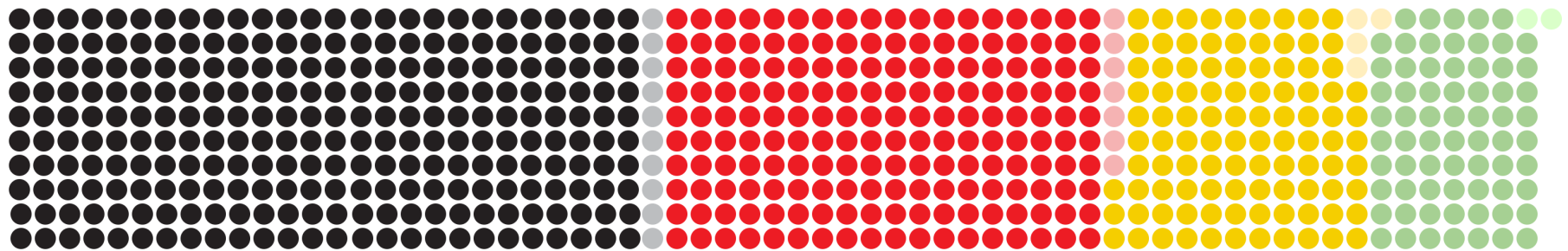
Guaranteed
place in the
Bundestag



Leading in
Bundestag
size

EXAMPLE VOTE

Party **A** has **3.8%** more seats than the 2nd vote allows,
so **all parties get to add the same percentage**



Party A
260+10=270

Party B
180+7=187

Party C
100+4=104

Party D
58+2=60

Total number of members
621 (598+23)

German Federal election system

EXAMPLE VOTE



German Federal election system

EXAMPLE VOTE

**THE CURRENT BUNDESTAG HAS
138 ÜBERHANGMANDATE AND
AUSGLEICHSMANDATE AND THAT
MAKES A TOTAL BUNDESTAG SIZE OF
736 (598+138)**

German Federal election system

EXAMPLE VOTE



German Federal election system

EXAMPLE VOTE

**THIS IS THE LARGEST
BUNDESTAG IN HISTORY**



German Federal election system

EXAMPLE VOTE

中华人民共和国第十四届全国人民代表大会第一次会议

**AFTER CHINA THE LARGEST
LOWER HOUSE IN THE WORLD**



PROBLEM

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PROBLEM

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FLUCTUATING SIZE OF THE BUNDESTAG

SPACE SHORTAGE OF THE BUNDESTAG

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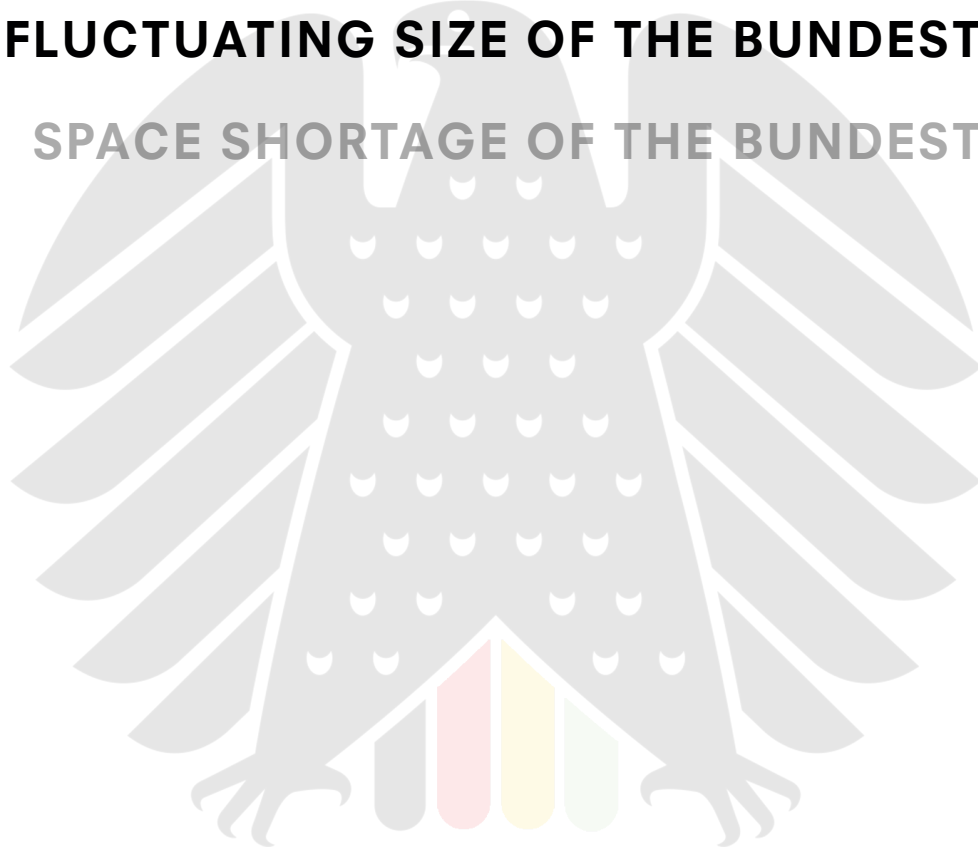
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Problem

FLUCTUATING SIZE OF THE BUNDESTAG






Problem

FLUCTUATING SIZE OF THE BUNDESTAG


THE RANGE OF POSSIBLE MANDATES
VARIES FROM AROUND 600 TO OVER
1,000 MEMBERS

An aerial, high-angle photograph of the Bundestag plenary chamber in Berlin. The chamber is a large, semi-circular hall with tiered seating for members of parliament. The seats are arranged in a semi-circle, with a central aisle and a raised platform at the front. The seating is color-coded by political party, with various colors like blue, red, and green visible. The architecture is modern, with a high ceiling and large windows. The overall atmosphere is formal and institutional.

Problem

FLUCTUATING SIZE OF THE BUNDESTAG

THE RANGE OF POSSIBLE MANDATES
VARIES FROM AROUND 600 TO OVER
1,000 MEMBERS

An aerial photograph of the Bundestag chamber in Berlin, showing the semi-circular seating arrangement with blue chairs and desks. A semi-transparent circular area is overlaid on the upper half of the image, highlighting a specific section of the seating. The text 'Problem' is centered above the main title.

Problem

FLUCTUATING SIZE OF THE BUNDESTAG

THE RANGE OF POSSIBLE MANDATES
VARIES FROM AROUND 600 TO OVER
1,000 MEMBERS



Problem

FLUCTUATING SIZE OF THE BUNDESTAG

THE RANGE OF POSSIBLE MANDATES
VARIES FROM AROUND 600 TO OVER
1,000 MEMBERS

An aerial photograph of the Bundestag chamber in Berlin. The members are seated in a large, semi-circular arrangement of blue desks. The chamber is filled with people, and the architecture features a high, glass-enclosed dome. The text "Problem" is written in small letters above the main title.

FLUCTUATING SIZE OF THE BUNDESTAG

THE RANGE OF POSSIBLE MANDATES
VARIES FROM AROUND 600 TO OVER
1,000 MEMBERS

Problem

FLUCTUATING SIZE OF THE BUNDESTAG



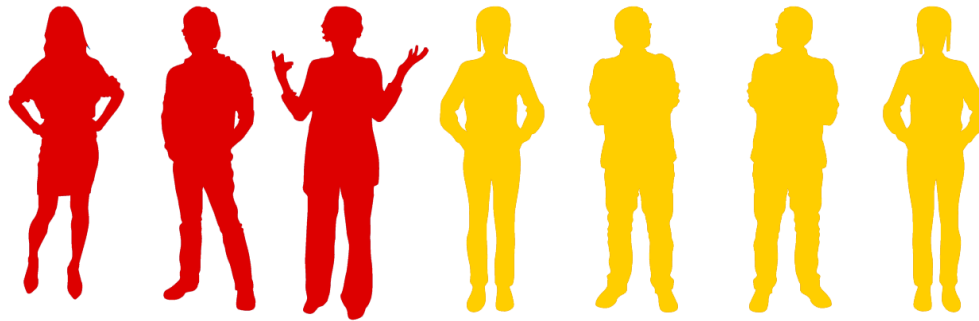
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Problem

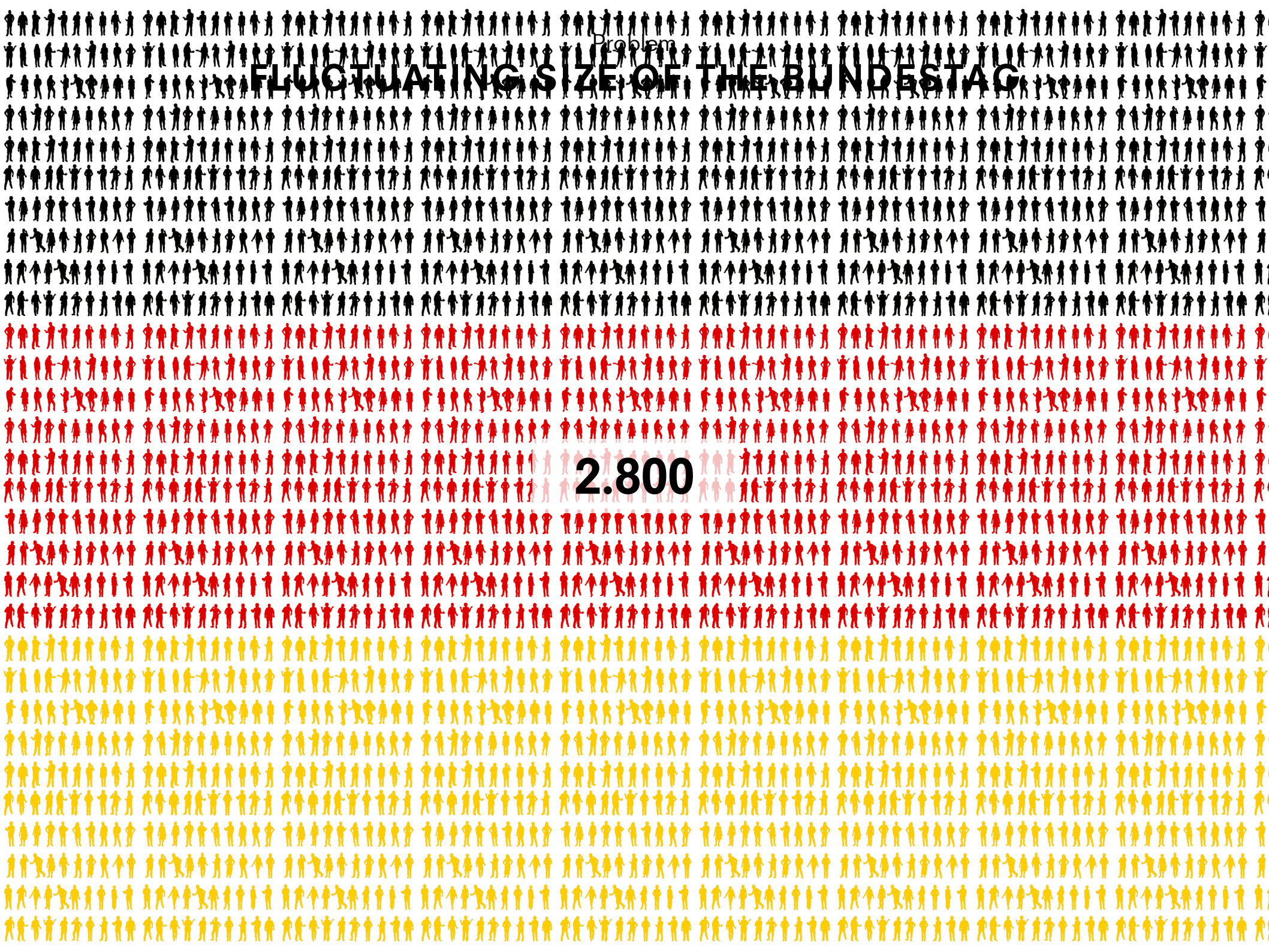
FLUCTUATING SIZE OF THE BUNDESTAG



400



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PROBLEM

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FLUCTUATING SIZE OF THE BUNDESTAG

SPACE SHORTAGE OF THE BUNDESTAG

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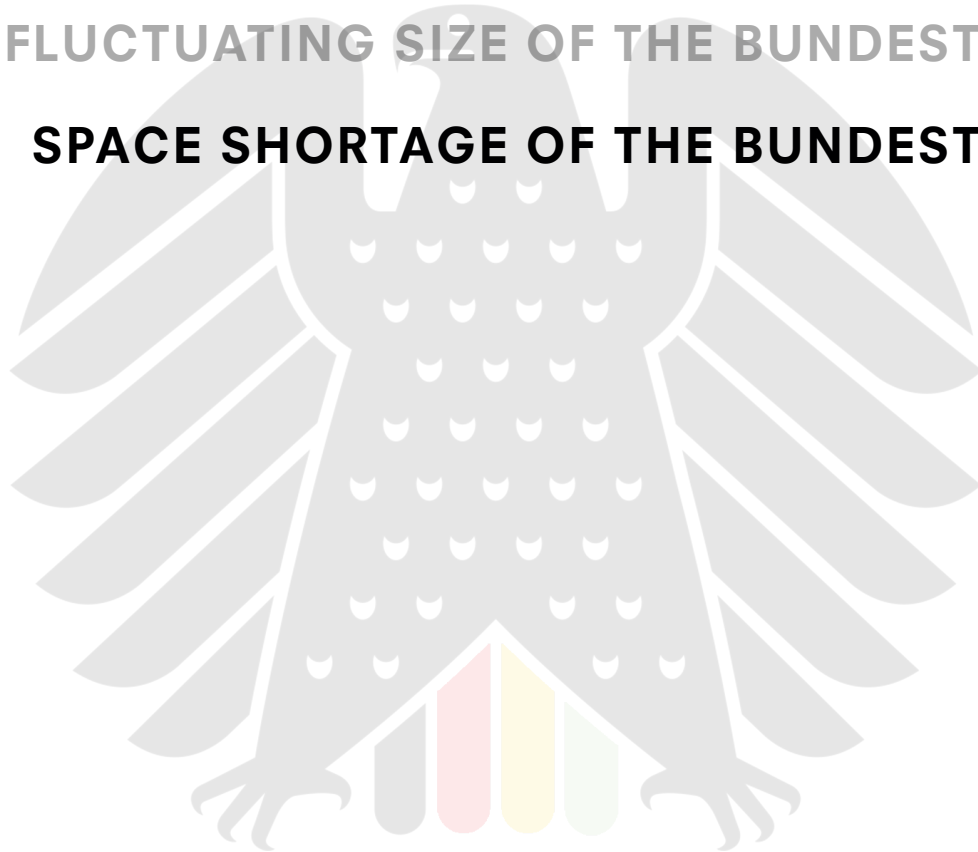
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Problem

SPACE SHORTAGE OF THE BUNDESTAG TAGESSPIEGEL

Suche

Anmelden

ABO



Politik

Internationales

Berlin

Gesellschaft

Wirtschaft

Kultur

Wissen

Gesundheit

Sport

Meinung >

Ampelkoalition

Olaf Scholz

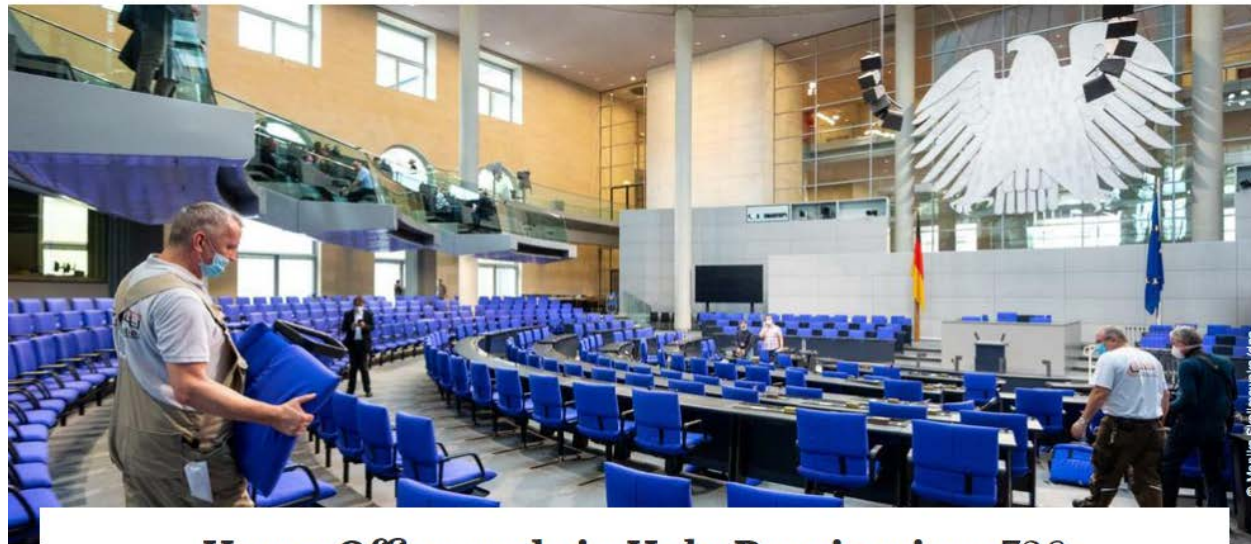
Bundeswehr

Energiewende



Politik

Home-Office und ein Holz-Provisorium: 736 Abgeordnete, aber zu wenig Büros – wie der Bundestag mit Platzmangel kämpft



Home-Office und ein Holz-Provisorium 736

Abgeordnete, aber **zu wenig Büros** – wie der Bundestag
mit **Platzmangel** kämpft

Auf 410 Millionen Euro beziffert der Steuerzahler-Bund die Mehrkosten durch den übergroßen Bundestag. Dort gibt es für neue Abgeordnete vorerst Notlösungen.

Ismar, G. (2021, 10 23). Abgeordnete, aber zu wenig Büros – wie der Bundestag mit Platzmangel kämpft. Retrieved from Tagesspiegel: <https://www.tagesspiegel.de/politik/736-abgeordnete-aber-zu-wenig-buros--wie-der-bundestag-mit-platzmangel-kampft-8015566.html>

ENERGY GROUP



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ENERGY GROUP

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INTRODUCTION

STRATEGY CARDS

FOR THE BUNDESTAG

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Energy Group
AMBITIONS



Carbon neutral: Emit and offset the same carbon emission

Self-Sufficient: Needing no outside help in satisfying needs

ENERGY GROUP

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INTRODUCTION

STRATEGY CARDS

FOR THE BUNDESTAG

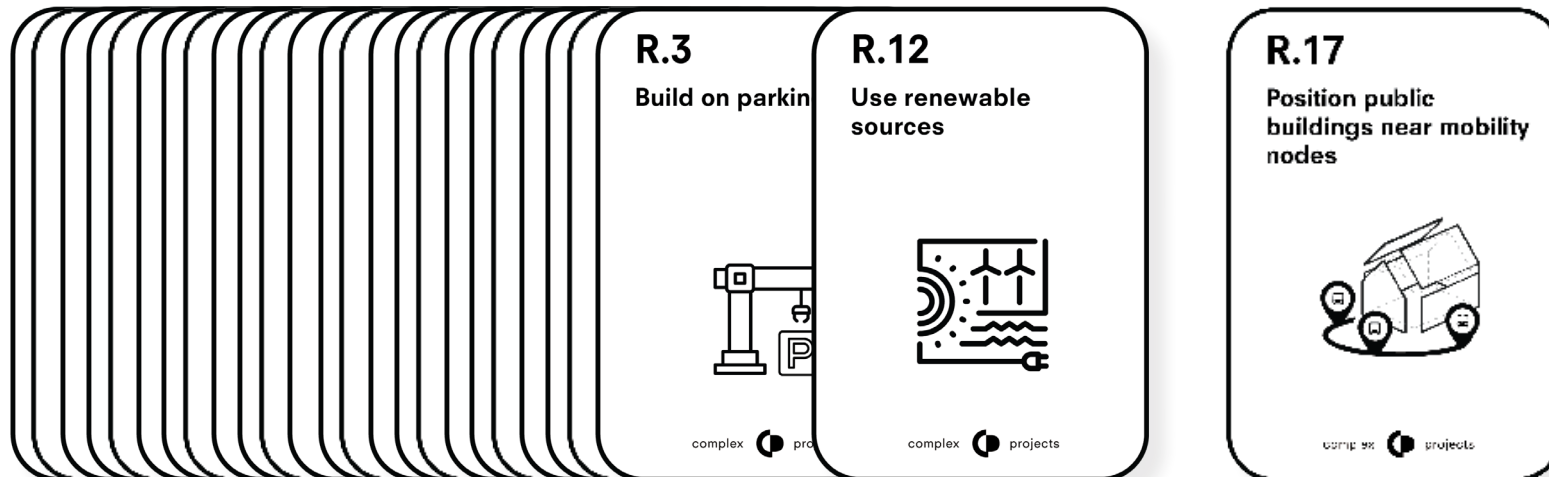
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Energy Group

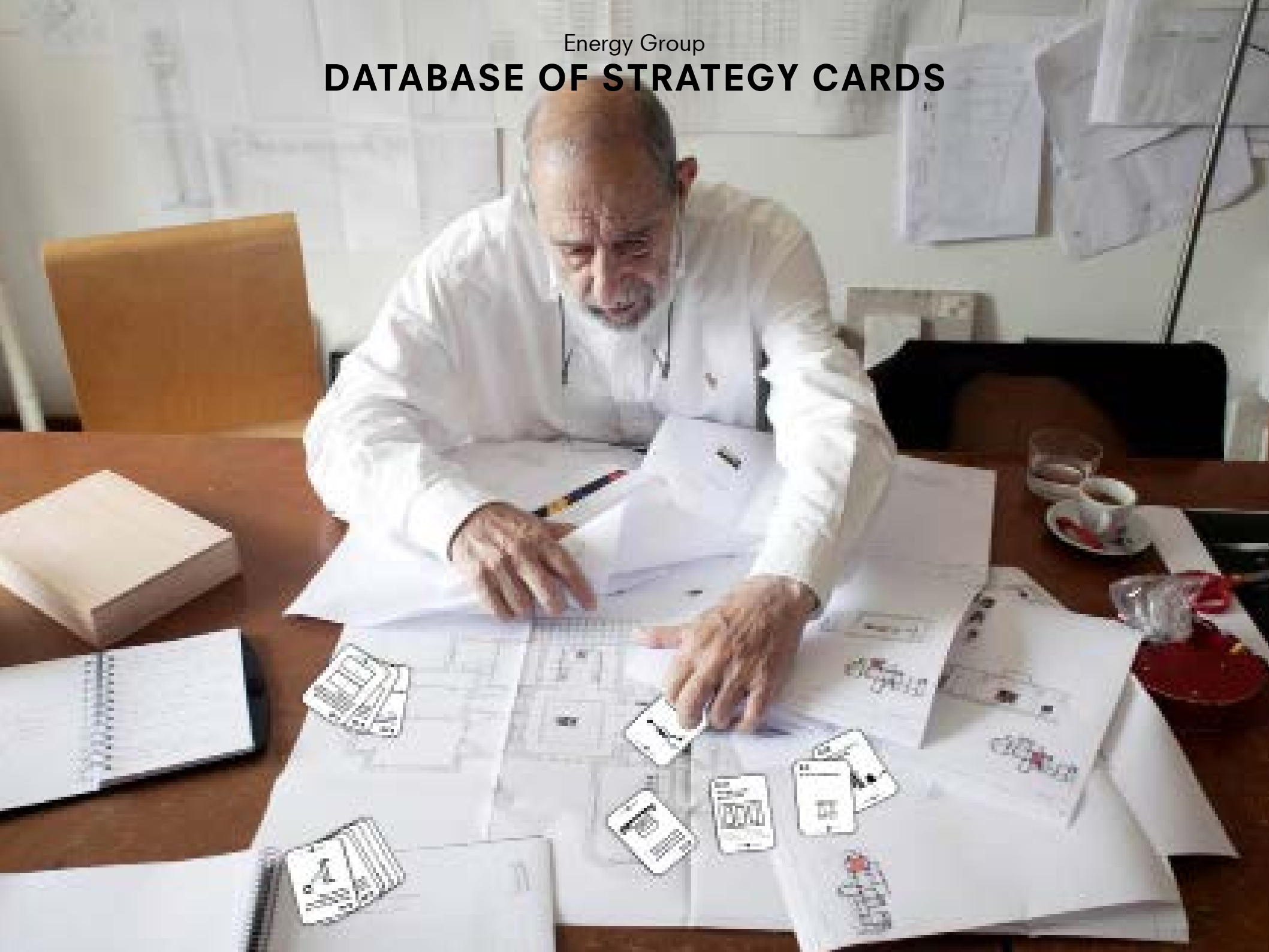
DATABASE OF STRATEGY CARDS



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Energy Group

DATABASE OF STRATEGY CARDS



Energy Group

DATABASE OF STRATEGY CARDS



Energy Group

DATABASE OF STRATEGY CARDS

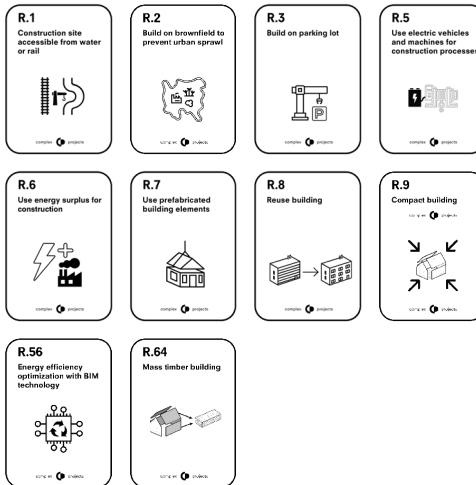


Energy Group

DATABASE OF STRATEGY CARDS



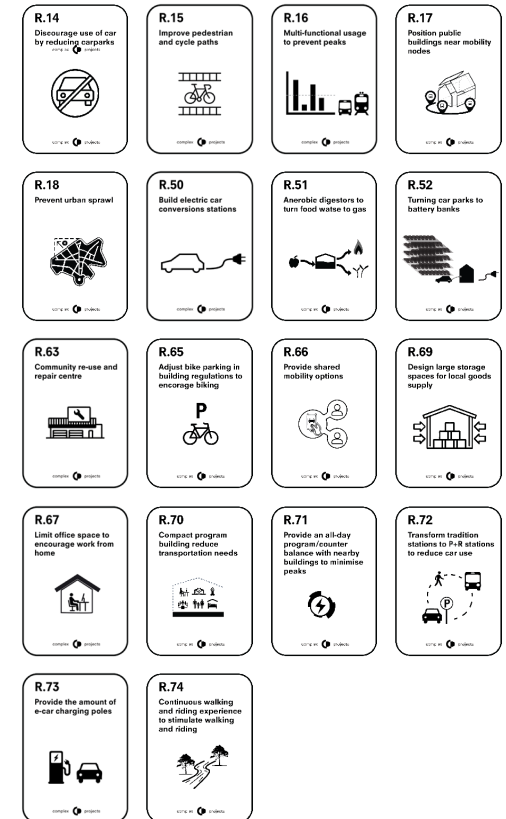
Construction of buildings



Energy usage of buildings



Transportation to buildings

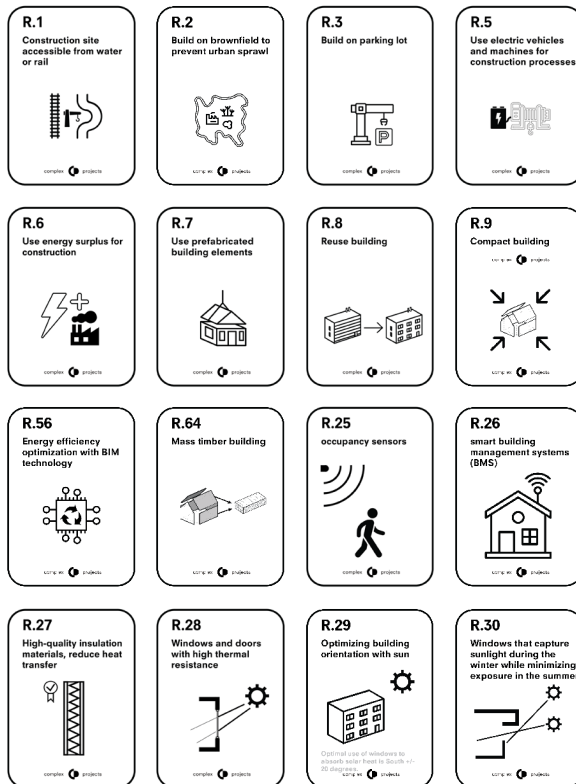


Energy Group

DATABASE OF STRATEGY CARDS

1 point card

This card **has little impact on the design** of the building and the energy saved is almost negligible



2 point card

This card impacts the design and detailing of the building and the energy saved is considerable



3 point card

this card defines the architectural concept of the building and impacts the building's climate concept



Energy Group

DATABASE OF STRATEGY CARDS

1 point card

This card **has little impact on the design** of the building and the energy saved is almost negligible



2 point card

This card impacts the design and detailing of the building and the energy saved is considerable



3 point card

this card defines the architectural concept of the building and impacts the building's climate concept



Energy Group

DATABASE OF STRATEGY CARDS

1 point card

This card **has little impact on the design** of the building and the energy saved is almost negligible



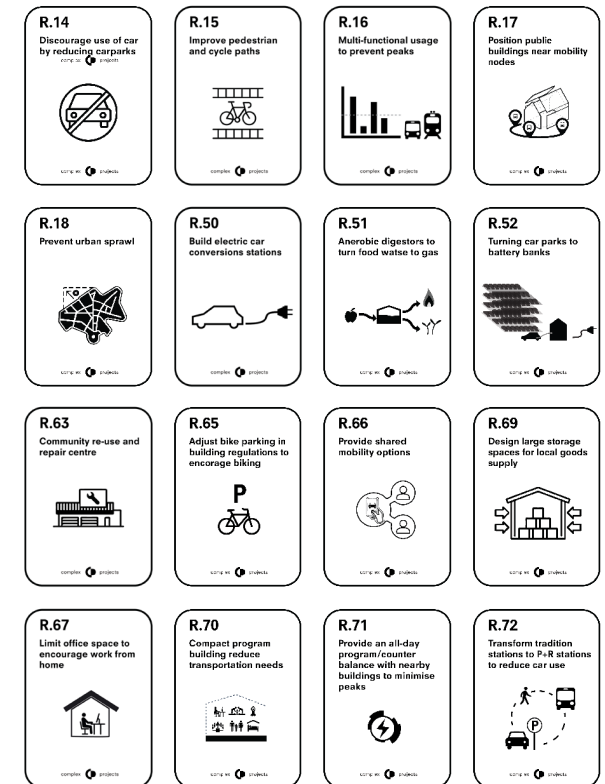
2 point card

This card impacts the design and detailing of the building and the energy saved is considerable



3 point card

this card defines the architectural concept of the building and impacts the building's climate concept



Energy Group

DATABASE OF STRATEGY CARDS

collab card

some strategies strengthen each other,
which is expressed through this card.
(Solar panels and green roof)



power-up card

The project's main card. An energy
concept that defines the buildings'
concept, is a large energy saver and
impacts architectural expression (worth
10 points)



conflict card

some strategies don't work together,
which is expressed through this card
(minimize facade surface and maximize
heat usage from solar radiation)

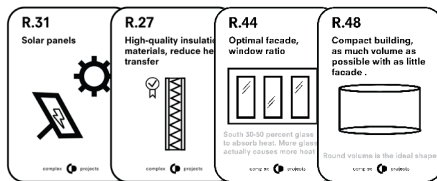


Energy Group

DATABASE OF STRATEGY CARDS

common buildings

10 PT



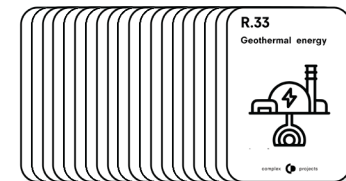
future ambitions

30 PT



our projects

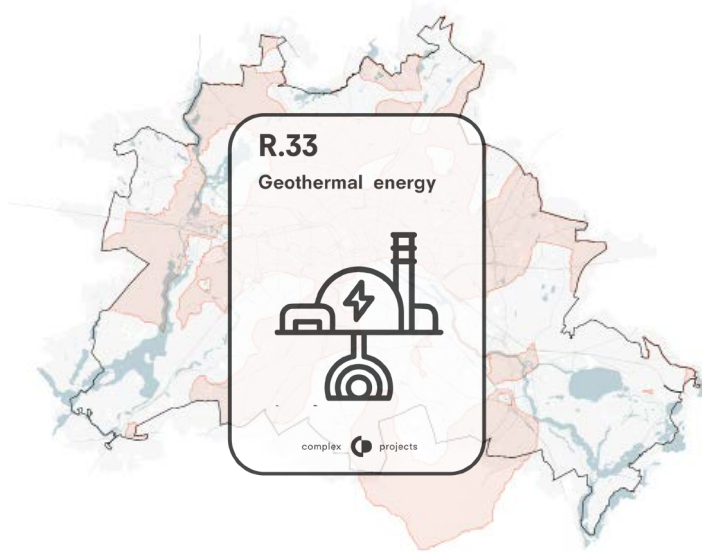
45 PT



Energy Group

DATABASE OF STRATEGY CARDS

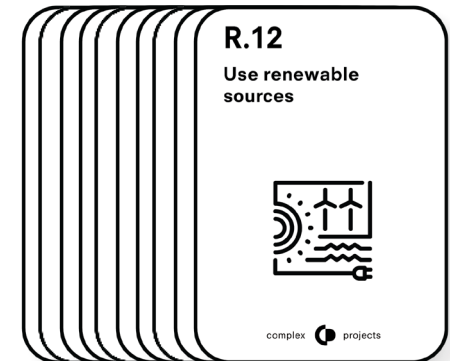
Group common card



Typology power-up card



Extra points



ENERGY GROUP

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INTRODUCTION

STRATEGY CARDS

FOR THE BUNDESTAG

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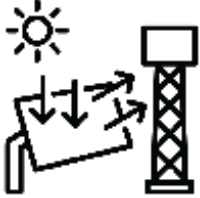
12



Energy Group FOR THE BUNDESTAG

R.93

Use small scale
Concentrated Solar
Power (CSP) to
produce and store
energy

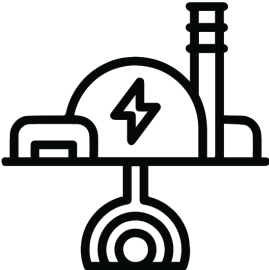


complex projects

10 P

R.33

Geothermal energy



complex projects

3 P

R.14


Discourage use of car
by reducing car parks



complex projects

R.17

Position public
buildings near mobility
nodes



complex projects

R.67

Limit office space to
encourage work from
home




complex projects

9 P

R.28


Windows and doors
with high thermal
resistance



complex projects

R.21


Use of solar updraft
chimney



complex projects

R.29


Optimizing building
orientation with sun



Optimal use of windows to
provide solar heat in South
25 degrees
complex projects

R.35


Green roof, to help
heat absorption



complex projects

R.12


Use renewable
sources



complex projects

R.22


Self regulating
building climate.
Greenhouse effect in
a building.



complex projects

R.30


Windows that capture
sunlight during the
winter while minimizing
exposure in the summer.



complex projects

R.43


Green environment
around building to
reduce heat stress



complex projects

R.56


Energy efficiency
optimization with BIM
technology



complex projects

R.25


occupancy sensors



complex projects

R.2


Build on brownfield to
prevent urban sprawl



complex projects

R.34


Low-flow
fixtures, reduces water
consumption



complex projects

R.64


Mass timber building



complex projects

R.1


Construction site
accessible from water
or rail



complex projects

R.7

Use prefabricated
building elements



complex projects

7 P

16 P

45 P TOTAL

Energy Group
FOR THE BUNDESTAG

PROGRAM

CLIENT

SITE

DESIGN BRIEF



CONCEPT



MASSING



DEVELOPMENT



CONCLUSION

CLIENT



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CLIENT

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NEW PARLIAMENT

OLD REICHSTAG

Client
FOR THE BUNDESTAG



THE GERMAN BUNDESTAG



THE GERMAN PEOPLE

CHOOSE

ANSWER

CONTROL

REPRESENT

CHOOSE

MINISTRY OF CULTURE

THE GERMAN PEOPLE



Bundesministerium
für Bildung
und Forschung

RULE



Client

SIZE OF THE BUNDESTAG

POLITICAL

ADMINISTRATIVE

ADDITIONAL

SIZE OF THE BUNDESTAG**Jobs/Departments****Employees**

Abgeordnete	736
Scientific staff	1.958
Secretaries	841
Clerks	917
Auxiliary staff	1.436
Total for Abgeordnete	5.887

ADMINISTRATIVE**ADDITIONAL**

SIZE OF THE BUNDESTAG

Jobs/Departments

Employees

Abgeordnete	736
Scientific staff	1.958
Secretaries	841
Clerks	917
Auxiliary staff	1.436
Total for Abgeordnete	5.887

Director Department	49
Parliament and MP Department (P)	1.170
Foreign Relations, Europe and Analysis Department (A)	480
Information and Documentation Department (I)	340
Digitization Department (D)	180
Construction and Infrastructure Department (B)	190
The central Department (Z)	840
Total for Bundestag administration	3.249

ADDITIONAL

SIZE OF THE BUNDESTAG

Jobs/Departments

Employees

Abgeordnete	736
Scientific staff	1.958
Secretaries	841
Clerks	917
Auxiliary staff	1.436
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Director Department	49
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Foreign Relations, Europe and Analysis Department (A)	480
Information and Documentation Department (I)	340
Digitization Department (D)	180
Construction and Infrastructure Department (B)	190
The central Department (Z)	840
Total for Bundestag administration	3.249
Extra staff	718
Total for Extra staff	718
Current bundestag employees	9.854

SIZE OF THE BUNDESTAG

Jobs/Departments

Employees

Abgeordnete	736
Scientific staff	1.958
Secretaries	841
Clerks	917
Auxiliary staff	1.436
Total for Abgeordnete	5.887

THE BUNDESTAG HAS 9.854 EMPLOYEES

Director Department (P)	49
Parliament and MF Department (P)	1.170
Foreign Relations, European Affairs Department (A)	480
Information and Documentation Department (I)	340
Digitization Department (D)	180
Construction and Infrastructure Department (B)	190
The central Department (Z)	840
Total for Bundestag administration	3.249

Extra staff	718
Total for Extra staff	718
Current bundestag employees	9.854

CLIENT

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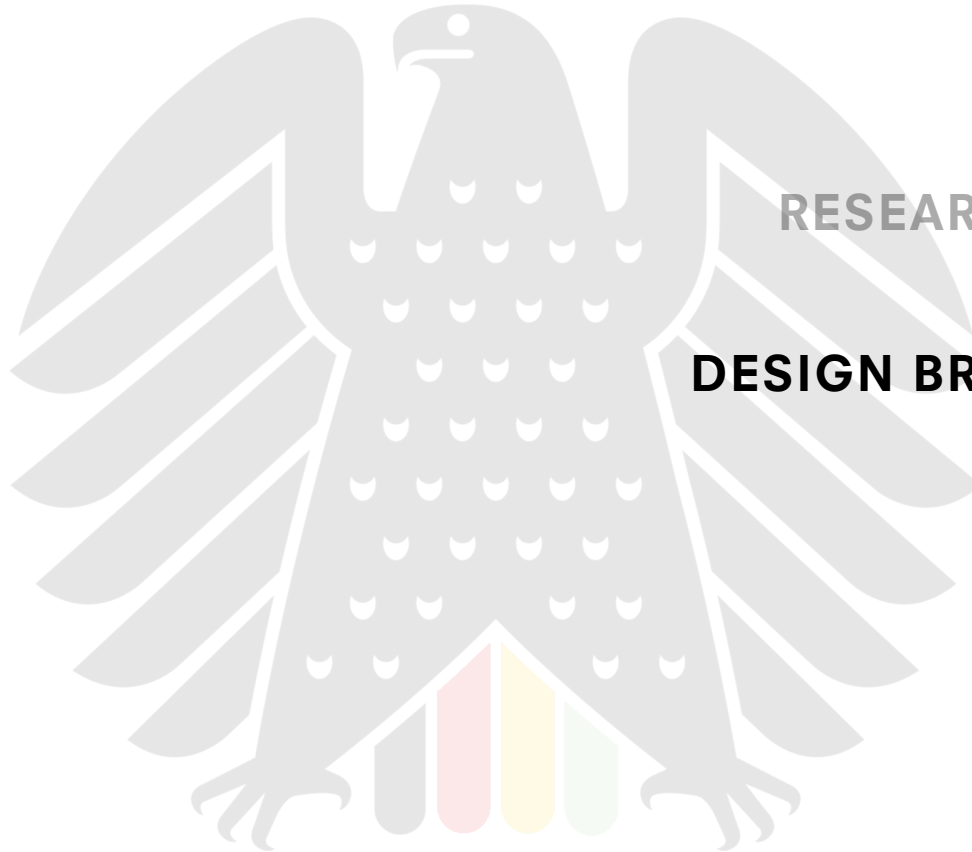
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STAKES OF THE CLIENT

- MODERNIZATION AND EFFICIENCY
- SYMBOLISM AND TRADITION
- ACCESSIBILITY AND INCLUSIVITY
- SECURITY AND SAFETY
- NATIONAL IDENTITY
- PUBLIC PERCEPTION

PROGRAM



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PROGRAM

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Program

CURRENT PROGRAM

Building

Sector

Use

Rooms/program

Parliament

	Politics	Debating	Plenary room Committee rooms Boardrooms Hearing room
		Working	Offices Committees Offices Representatives Offices Parties Offices Ministries Offices Legal advise Offices Other Library Archive Reading room
		Meeting	Conference hall Ältestenrats Conference hall Parties Conference halls
		Lobbying	Lobby areas Walking halls Offices for former Bundeskanzlers Offices Ältestenrats
	Administrative	Working	Offices Bundestag president Offices Bundestag clergy Offices administration
		Meeting	Meeting places Conference halls
	Public	Visiting	Visitor area Visitor stands
		Broadcasting	Media rooms Press TV Studio Offices
		Securing	Security rooms Offices
	Rest	Eating	Cafeteria Restaurant Kitchens
		Meeting	Meeting places Cafes
		Sporting	Doctors office Fitness rooms
	Utility	Powering	Utility rooms Emergency power rooms
		Storing	Storage rooms Server room
	Site	Maintaining	Cleaning rooms Facility rooms
		Parking	Parking garage Taxi/ P+R
		Recreating	Waterfront Public park
		Interacting	Walking routes Modern amfitheater

Program

CURRENT PROGRAM



PROGRAM

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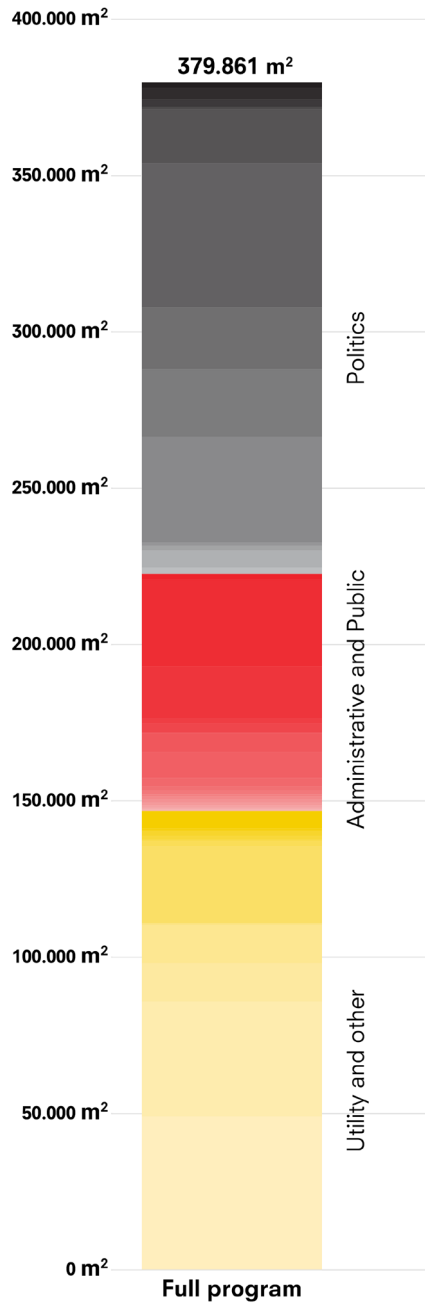
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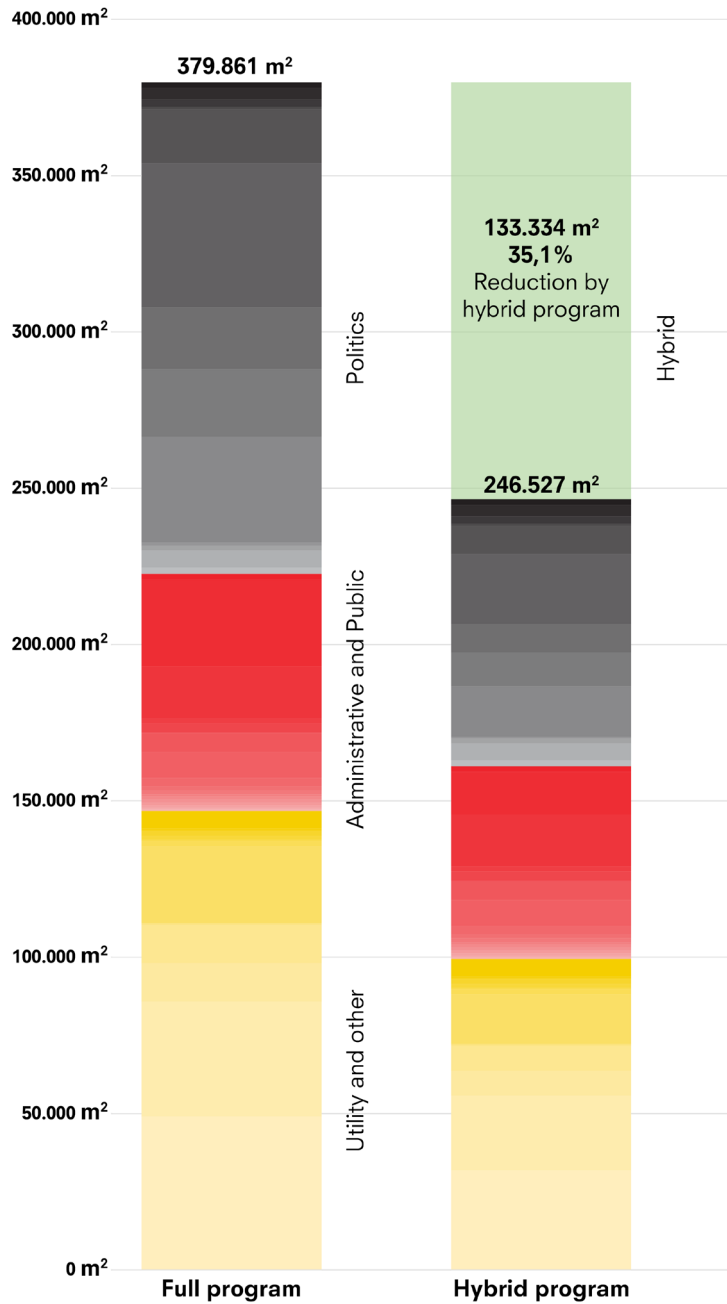
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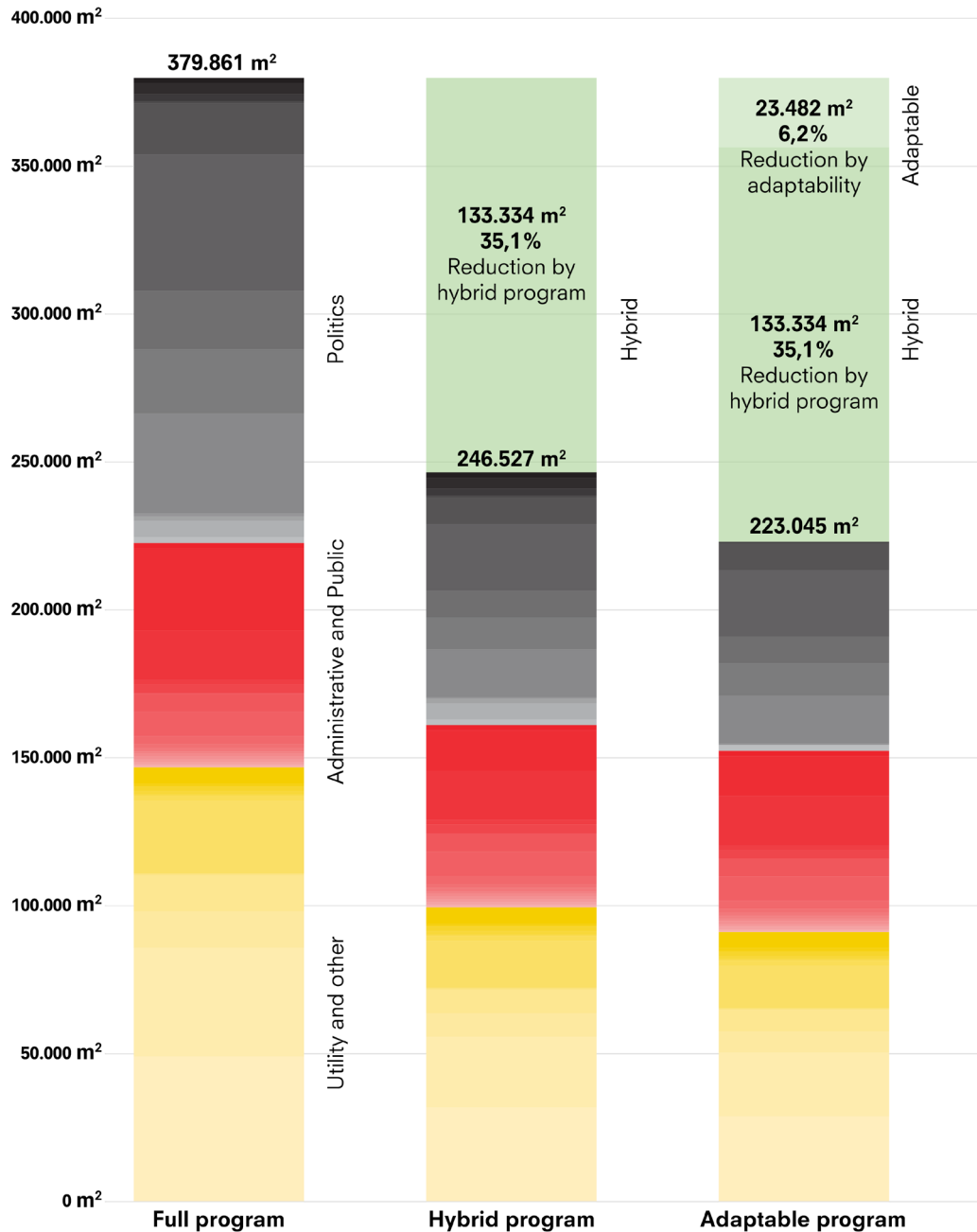
Program NEW PROGRAM



Program NEW PROGRAM HYBRID

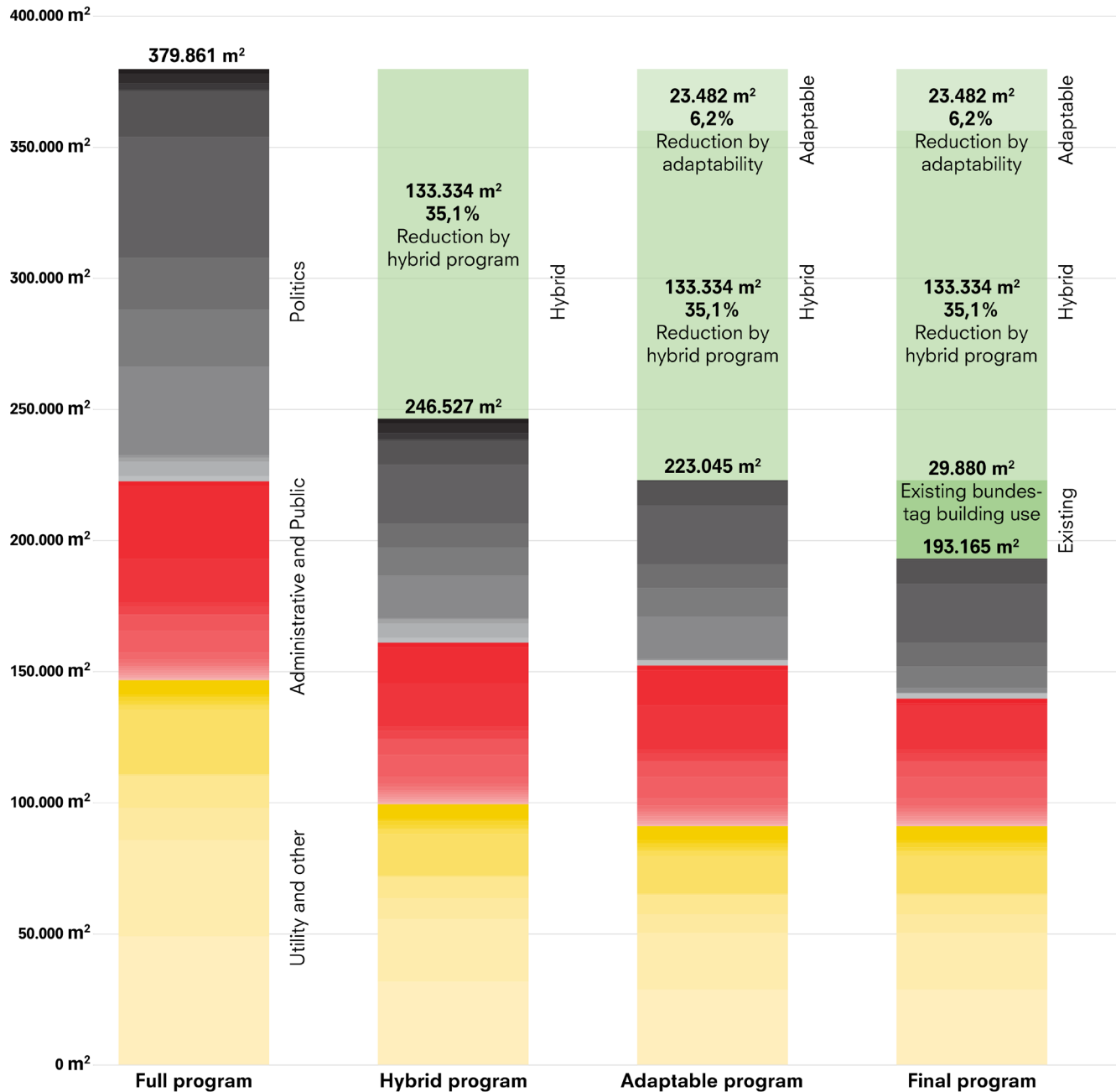


Program NEW PROGRAM ADAPTABLE

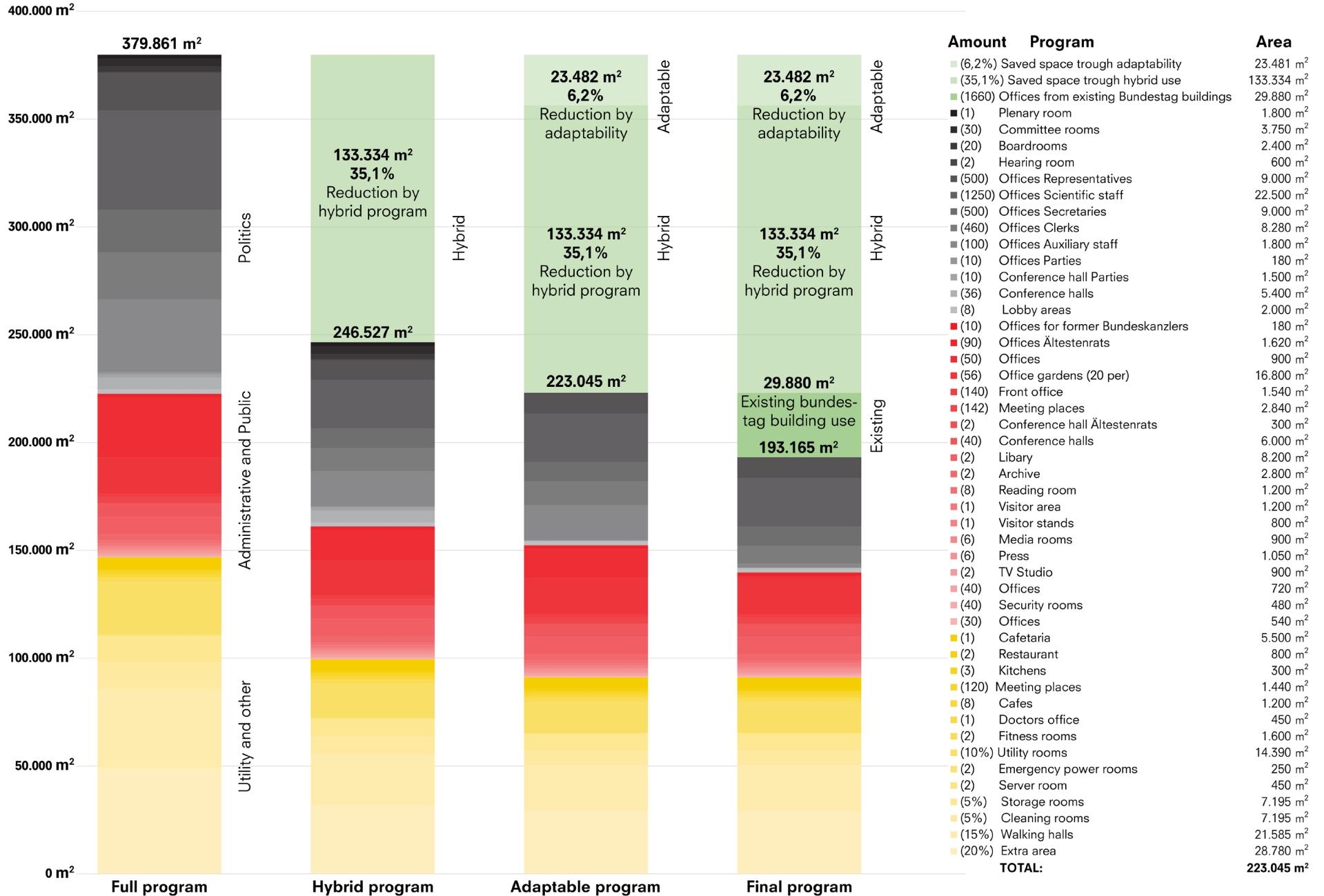


Program

NEW PROGRAM WITH EXISTING BUILDINGS



Program NEW PROGRAM



Program NEW PROGRAM

Amount	Program	Area			
■ (6,2%)	Saved space trough adaptability	23.481 m ²	■ (2)	Archive	2.800 m ²
■ (35,1%)	Saved space trough hybrid use	133.334 m ²	■ (8)	Reading room	1.200 m ²
■ (1660)	Offices from existing Bundestag buildings	29.880 m ²	■ (1)	Visitor area	1.200 m ²
■ (1)	Plenary room	1.800 m ²	■ (1)	Visitor stands	800 m ²
■ (30)	Committee rooms	3.750 m ²	■ (6)	Media rooms	900 m ²
■ (20)	Boardrooms	2.400 m ²	■ (6)	Press	1.050 m ²
■ (2)	Hearing room	600 m ²	■ (2)	TV Studio	900 m ²
■ (500)	Offices Representatives	9.000 m ²	■ (40)	Offices	720 m ²
■ (1250)	Offices Scientific staff	22.500 m ²	■ (40)	Security rooms	480 m ²
■ (500)	Offices Secretaries	9.000 m ²	■ (30)	Offices	540 m ²
■ (460)	Offices Clerks	8.280 m ²	■ (1)	Cafeteria	5.500 m ²
■ (100)	Offices Auxiliary staff	1.800 m ²	■ (2)	Restaurant	800 m ²
■ (10)	Offices Parties	180 m ²	■ (3)	Kitchens	300 m ²
■ (10)	Conference hall Parties	1.500 m ²	■ (120)	Meeting places	1.440 m ²
■ (36)	Conference halls	5.400 m ²	■ (8)	Cafes	1.200 m ²
■ (8)	Lobby areas	2.000 m ²	■ (1)	Doctors office	450 m ²
■ (10)	Offices for former Bundeskanzlers	180 m ²	■ (2)	Fitness rooms	1.600 m ²
■ (90)	Offices Ältestenrats	1.620 m ²	■ (10%)	Utility rooms	14.390 m ²
■ (50)	Offices	900 m ²	■ (2)	Emergency power rooms	250 m ²
■ (56)	Office gardens (20 per)	16.800 m ²	■ (2)	Server room	450 m ²
■ (140)	Front office	1.540 m ²	■ (5%)	Storage rooms	7.195 m ²
■ (142)	Meeting places	2.840 m ²	■ (5%)	Cleaning rooms	7.195 m ²
■ (2)	Conference hall Ältestenrats	300 m ²	■ (15%)	Walking halls	21.585 m ²
■ (40)	Conference halls	6.000 m ²	■ (20%)	Extra area	28.780 m ²
■ (2)	Library	8.200 m ²		TOTAL:	223.045 m²

Program

NEW PROGRAM

Amount	Program	Area
■ (6,2%)	Saved space trough adaptability	23.481 m ²
■ (35,1%)	Saved space trough hybrid use	133.334 m ²
■ (1660)	Offices from existing Bundestag buildings	29.880 m ²
		186.695 m²

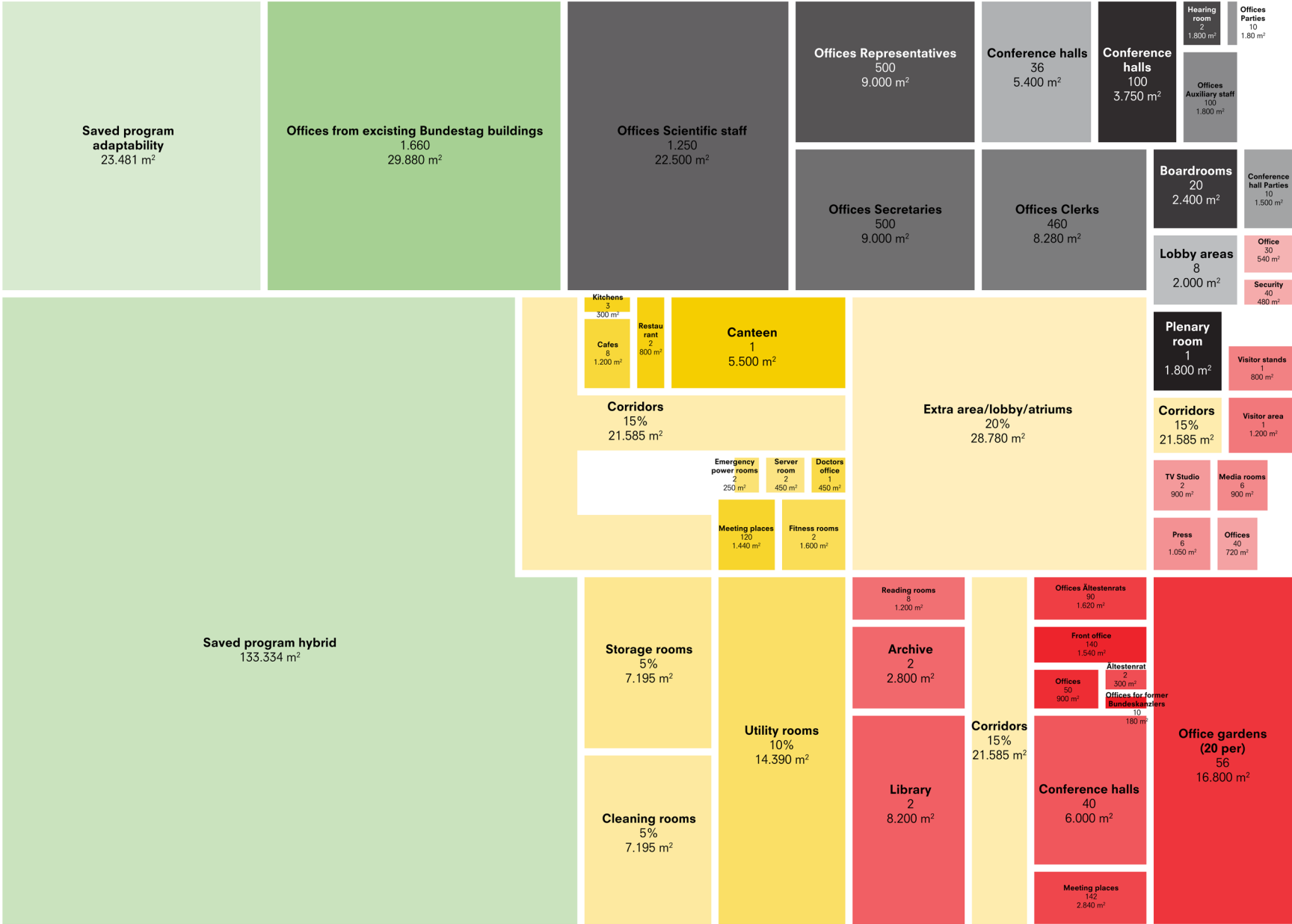
Parliament

Program NEW PROGRAM

Sector	Use	Rooms/program	m2
Politics	Debating	Plenary room	1.800 m ²
		Committee rooms	3.750 m ²
	Working	Boardrooms	2.400 m ²
		Hearing room	600 m ²
		Offices Representatives	9.000 m ²
	Meeting	Offices Scientific staff	22.500 m ²
		Offices Secretaries	9.000 m ²
		Offices Clerks	10.800 m ²
	Lobbying	Offices Auxiliary staff	16.200 m ²
		Offices Parties	540 m ²
Administrative	Working	Library	8.200 m ²
		Archive	2.800 m ²
	Meeting	Reading room	1.200 m ²
		Conference hall Ältestenrats	300 m ²
		Conference hall Parties	1.500 m ²
	Visiting	Conference halls	5.400 m ²
		Lobby areas	2.000 m ²
	Broadcasting	Walking halls	21.585 m ²
		Offices for former Bundeskanzlers	180 m ²
	Securing	Offices Ältestenrats	1.620 m ²
Public	Working	Offices	13.500 m ²
		Office gardens (20 per)	16.800 m ²
	Meeting	Front office	1.540 m ²
		Meeting places	2.840 m ²
		Conference halls	6.000 m ²
	Visiting	Visitor area	1.200 m ²
		Visitor stands	800 m ²
	Broadcasting	Media rooms	900 m ²
		Press	1.050 m ²
	Securing	TV Studio	900 m ²
Rest	Working	Offices	720 m ²
		Security rooms	480 m ²
	Meeting	Offices	540 m ²
		Cafeteria	5.500 m ²
		Restaurant	800 m ²
	Visiting	Kitchens	300 m ²
		Meeting places	1.440 m ²
	Broadcasting	Cafes	1.200 m ²
		Doctors office	450 m ²
	Securing	Fitness rooms	1.600 m ²
Utility	Powering	Utility rooms	14.390 m ²
		Emergency power rooms	250 m ²
	Storing	Storage rooms	7.195 m ²
		Server room	450 m ²
		Cleaning rooms	7.195 m ²
	Maintaining	Facility rooms	28.780 m ²
		Parking garage	- m ²
	Parking	Taxi/ P+R	- m ²
		Public area	- m ²
	Recreating	Public park	- m ²
Walking routes		- m ²	
Site	-	- m ²	
			223.045 m ²

Program

NEW PROGRAM



SITE



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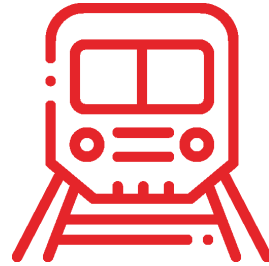


Site

SITE REQUIREMENTS



**Rule 1: Govern-
ment district**



**Rule 2: Public
transportation**



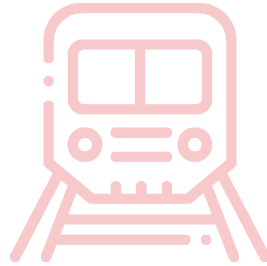
**Rule 3: Landmark
visibility**

Site

SITE REQUIREMENTS



**Rule 1: Govern-
ment district**



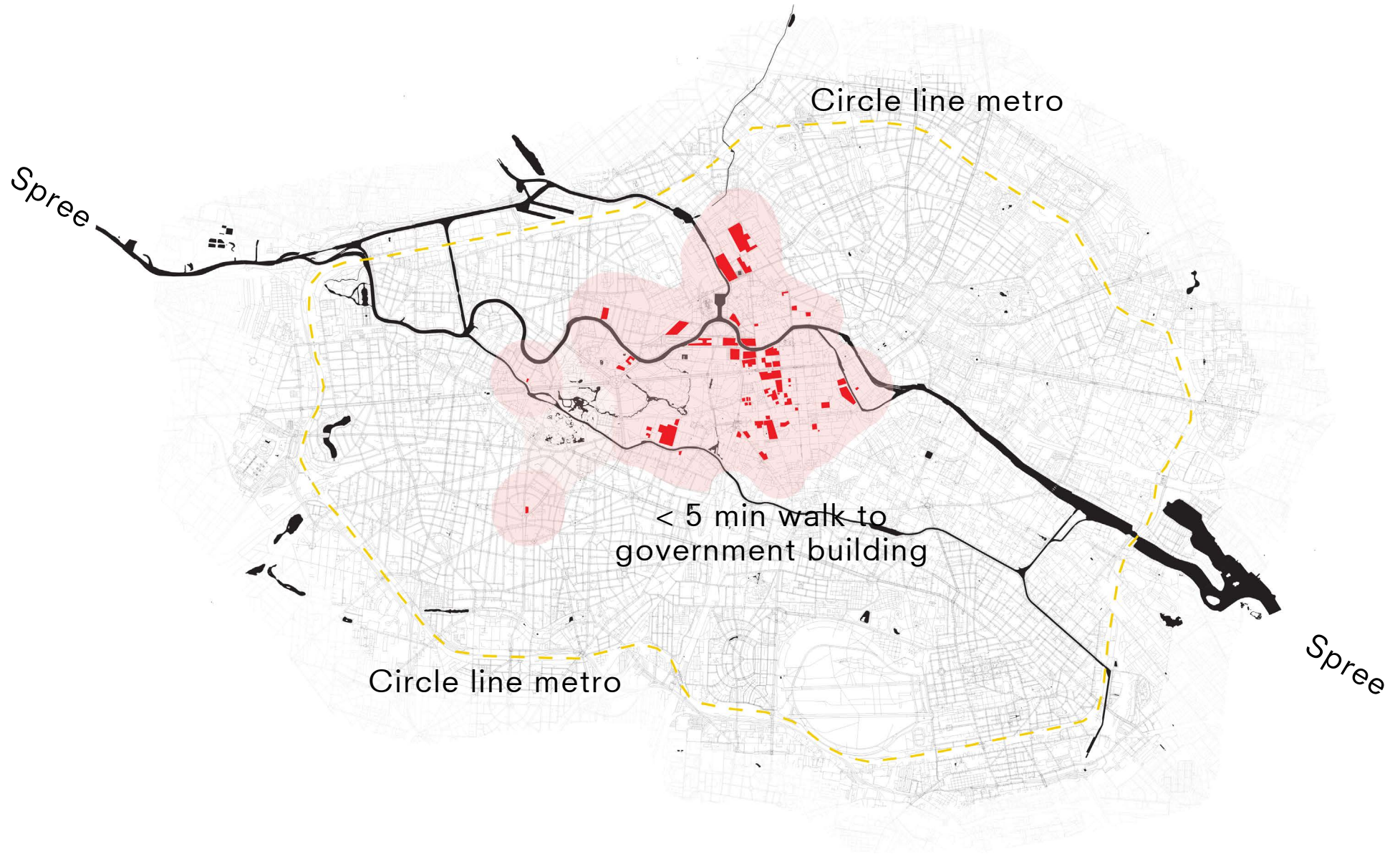
**Rule 2: Public
transportation**



**Rule 3: Landmark
visibility**

Site

SITE REQUIREMENTS

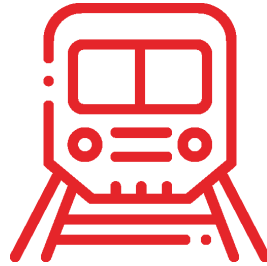


Site

SITE REQUIREMENTS



**Rule 1: Govern-
ment district**

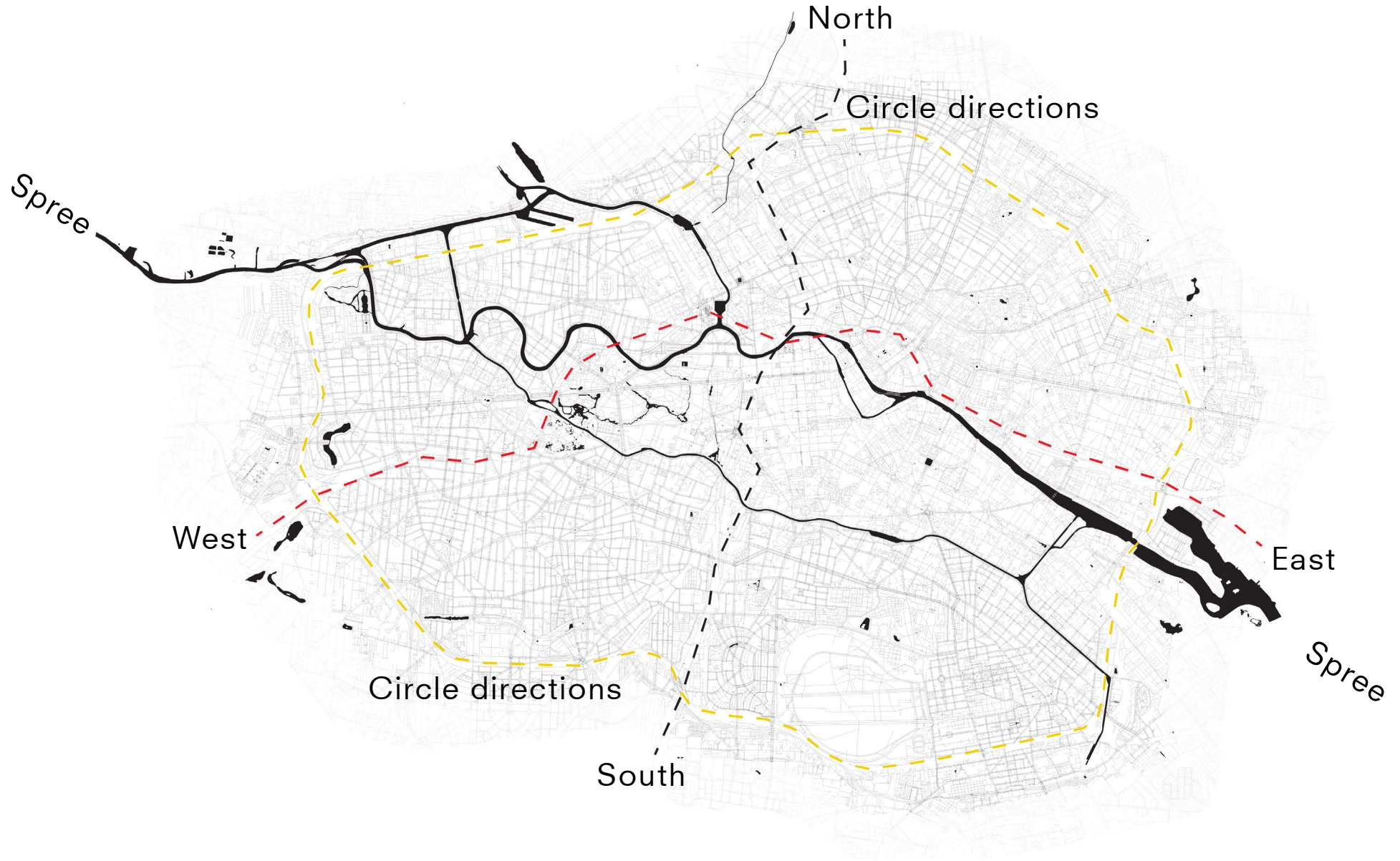


**Rule 2: Public
transportation**

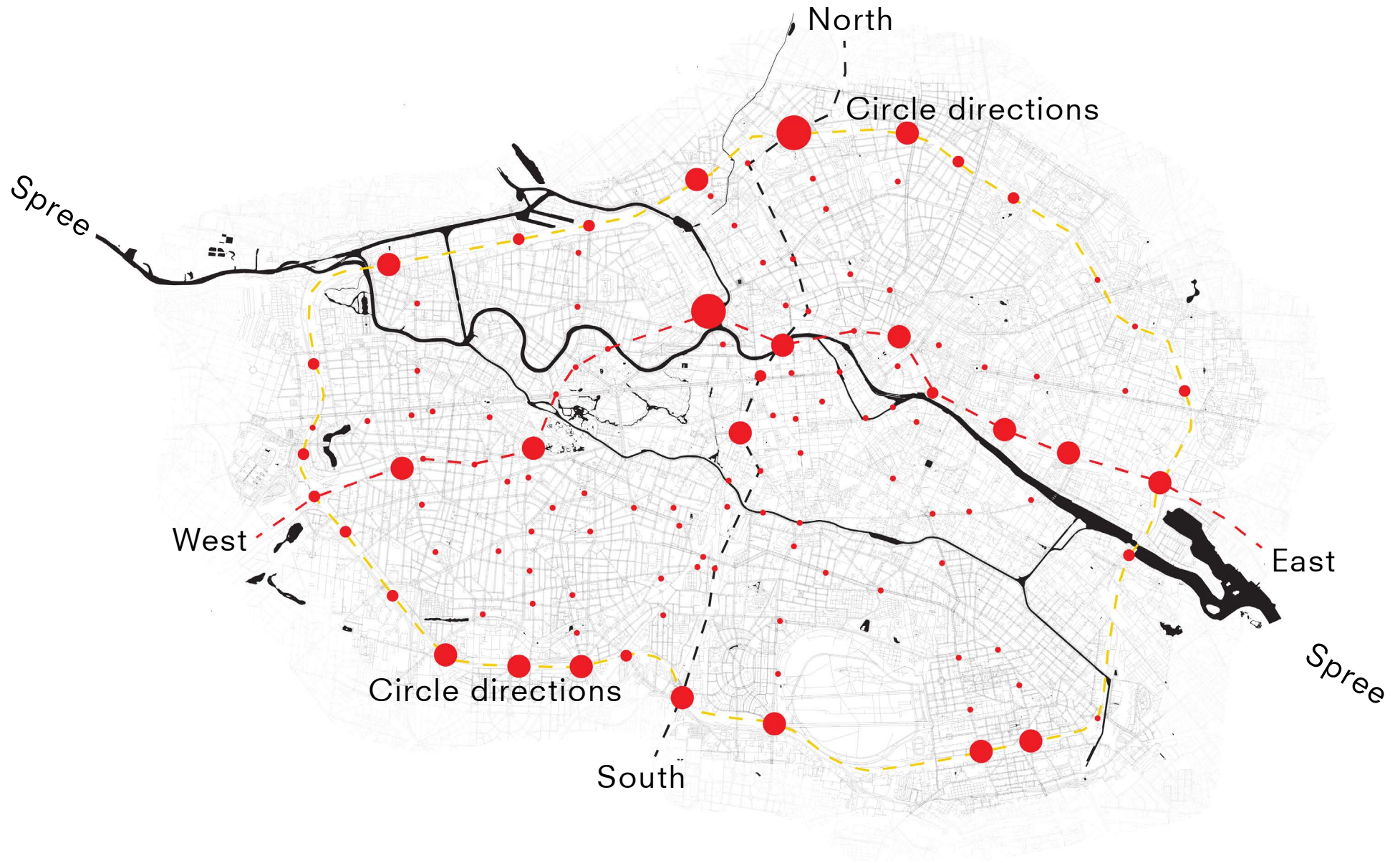


**Rule 3: Landmark
visibility**

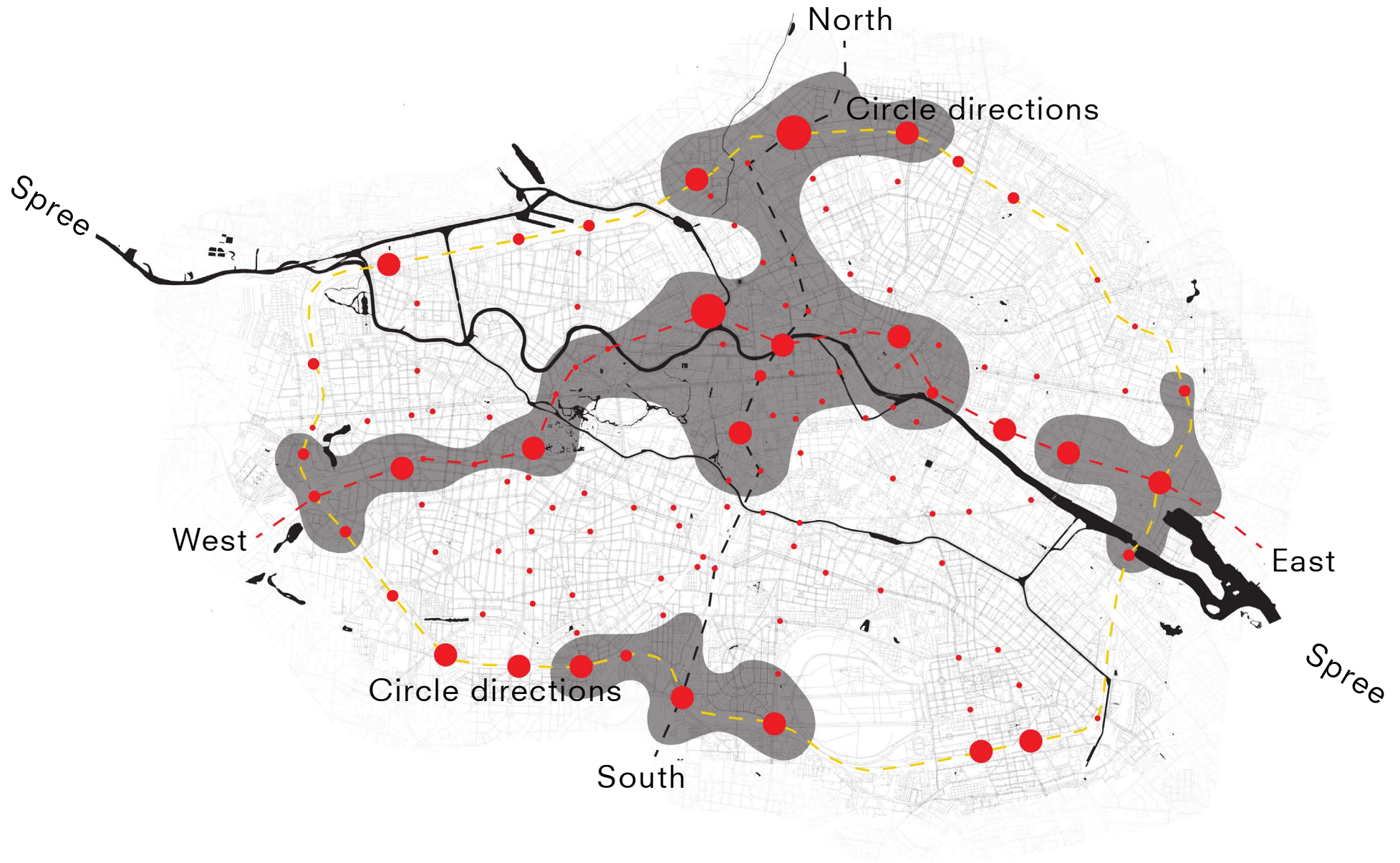
Site SITE REQUIREMENTS



Site SITE REQUIREMENTS



Site SITE REQUIREMENTS

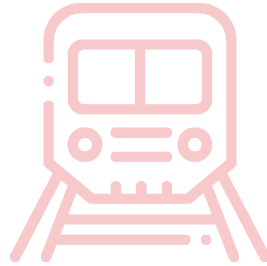


Site

SITE REQUIREMENTS



**Rule 1: Govern-
ment district**



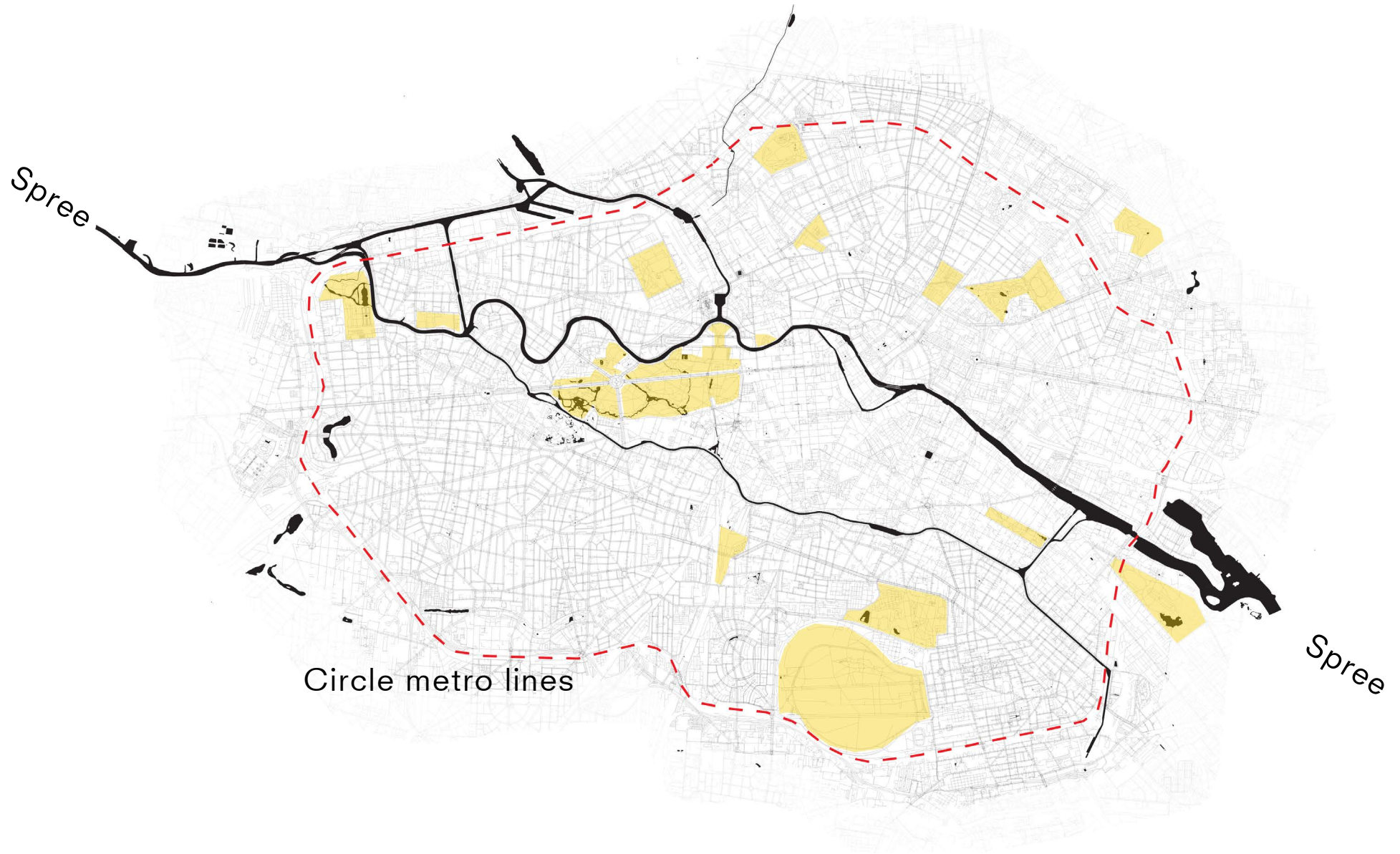
**Rule 2: Public
transportation**



**Rule 3: Landmark
visibility**

Site

SITE REQUIREMENTS

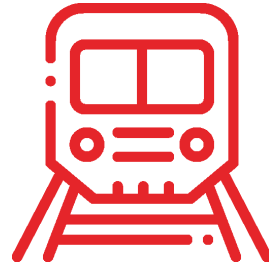


Site

SITE REQUIREMENTS



**Rule 1: Govern-
ment district**



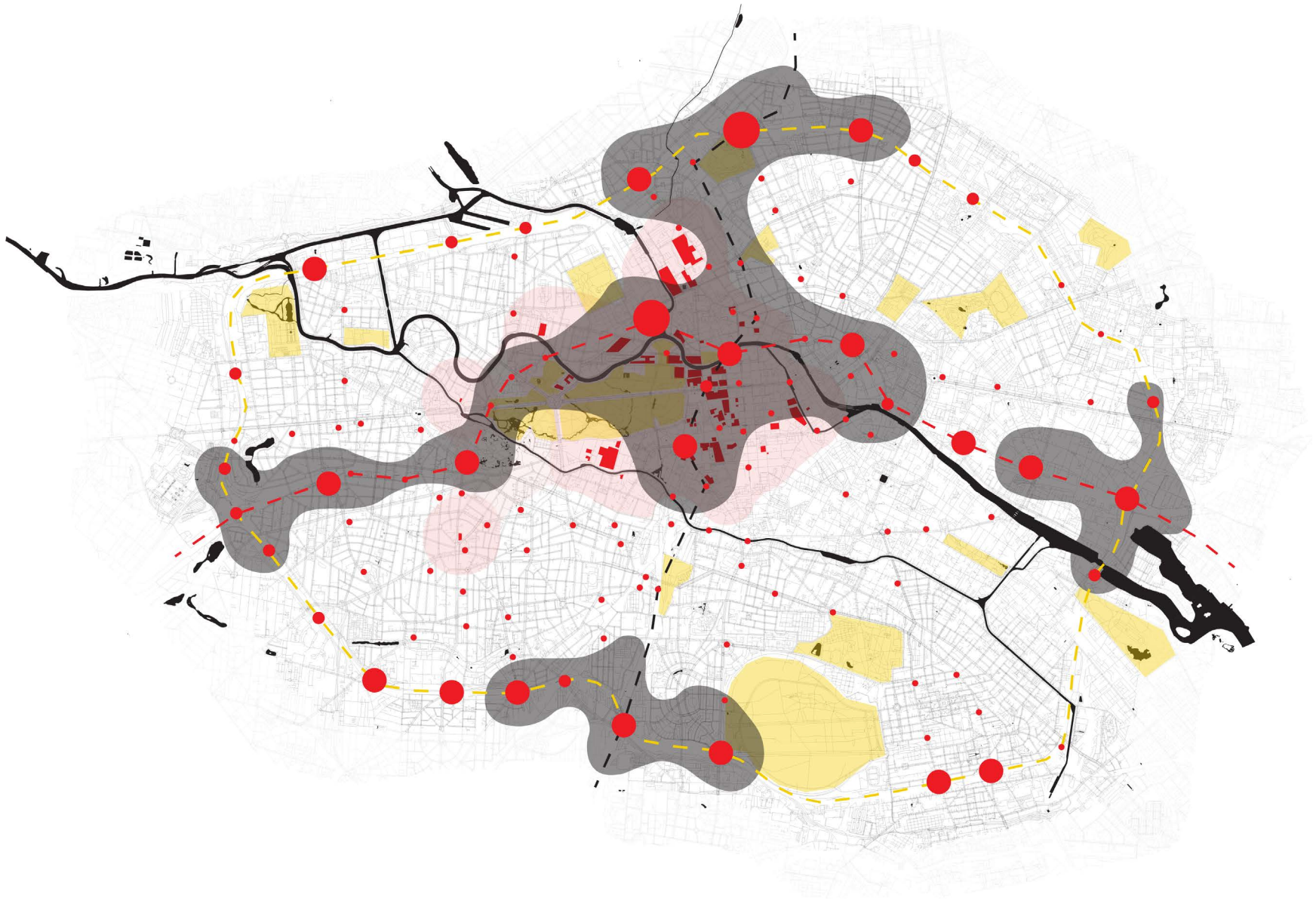
**Rule 2: Public
transportation**



**Rule 3: Landmark
visibility**

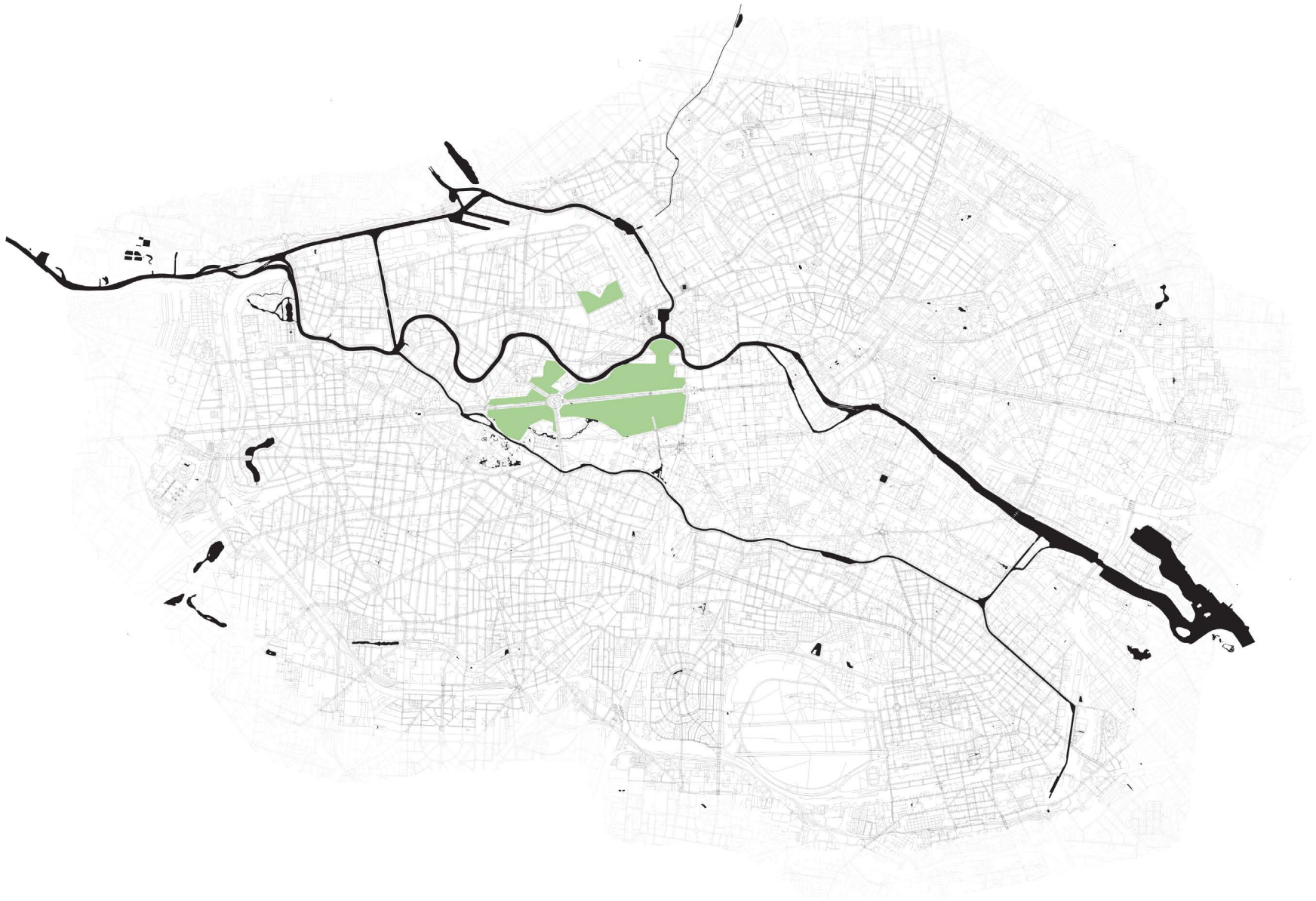
Site

SITE REQUIREMENTS



Site

SITE REQUIREMENTS



SITE

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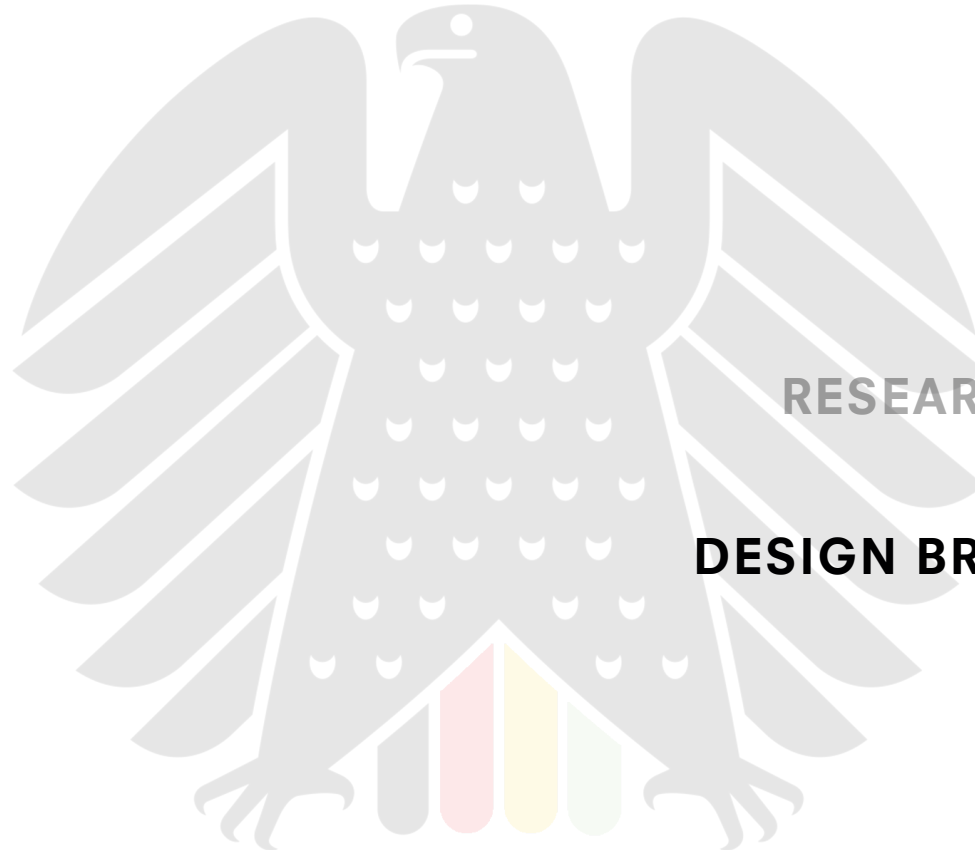
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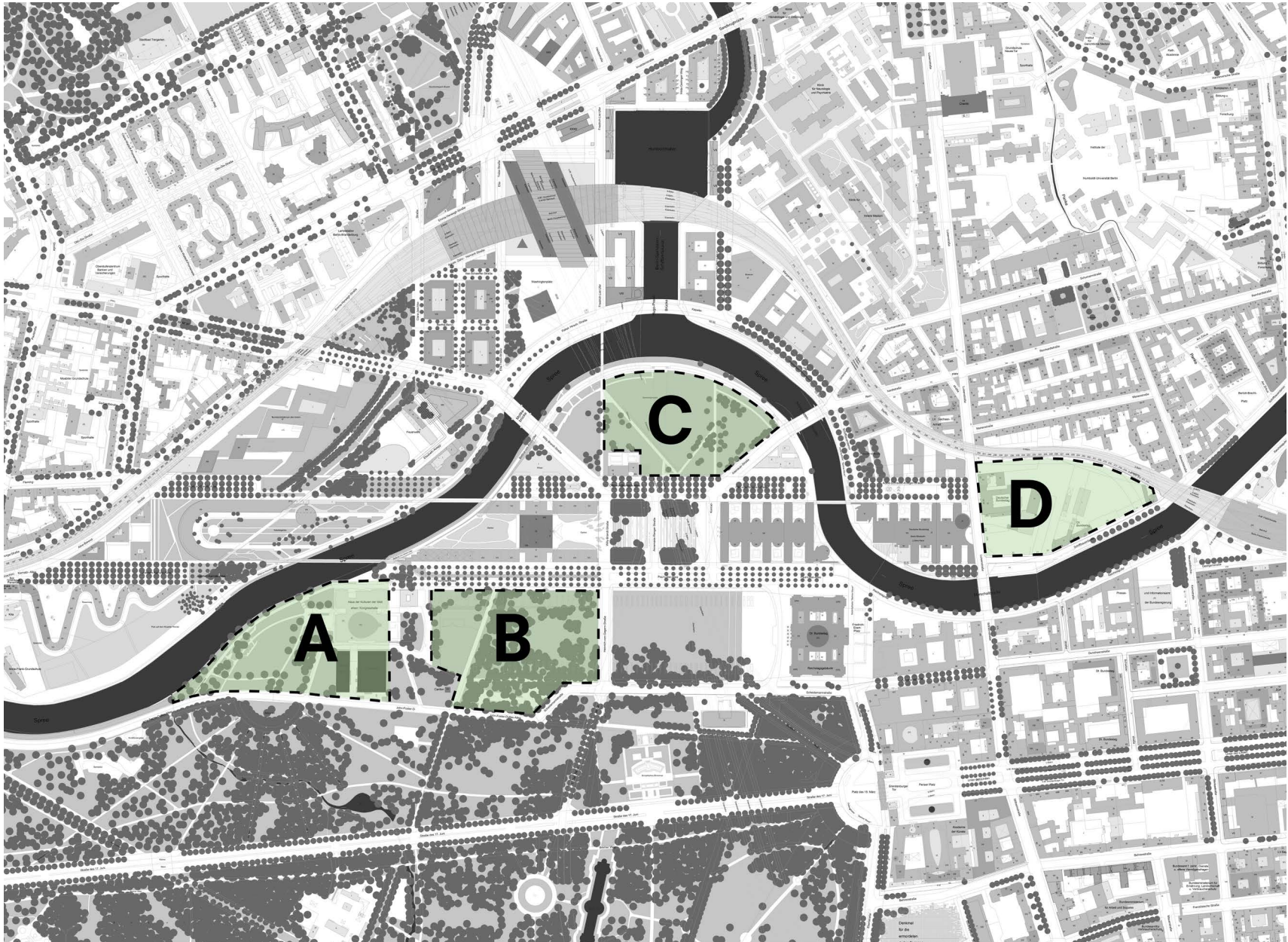
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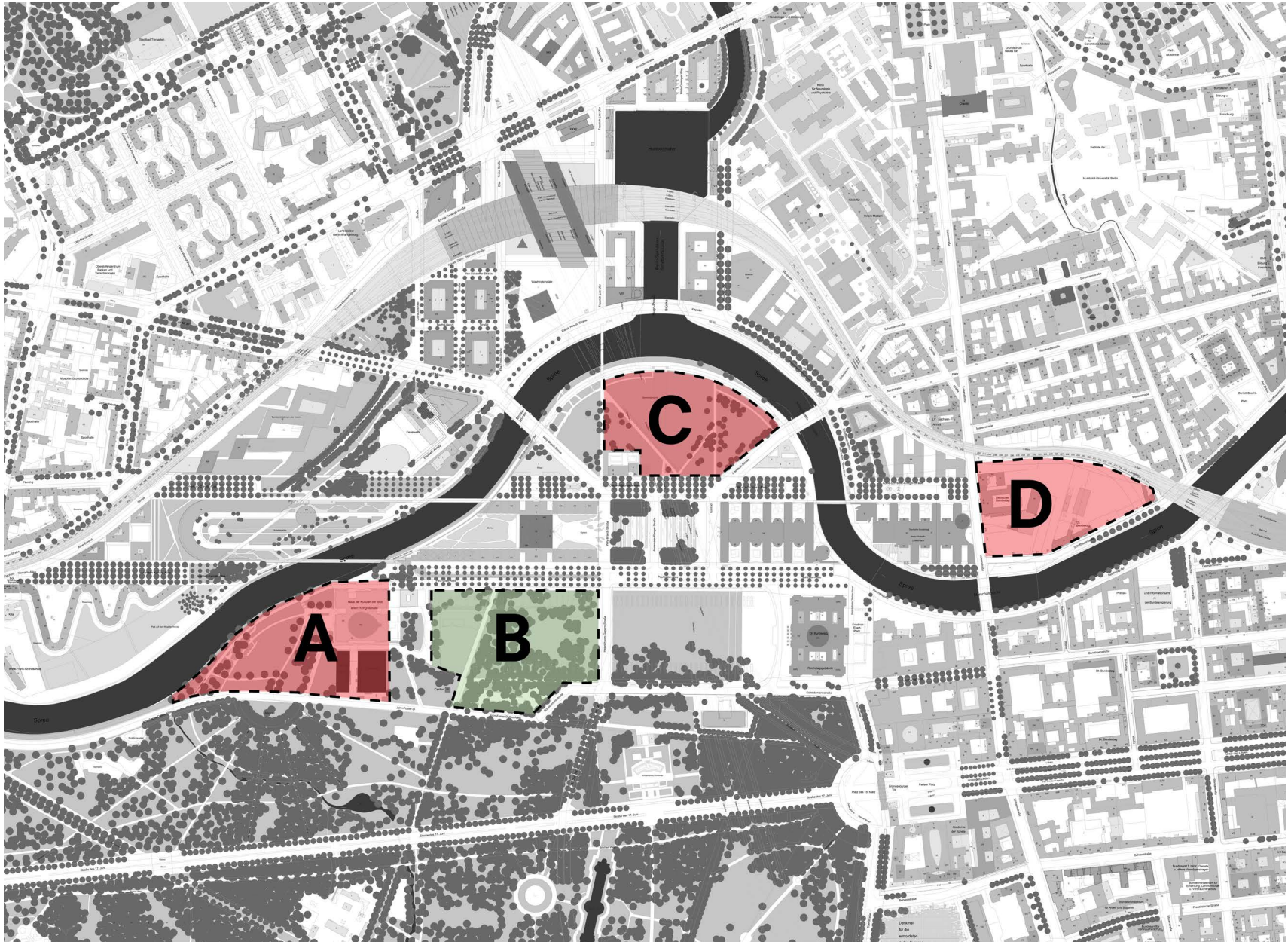
Site

SITE CHOICE



Site

SITE CHOICE



Site
SITE CHOICE



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SITE CHOICE



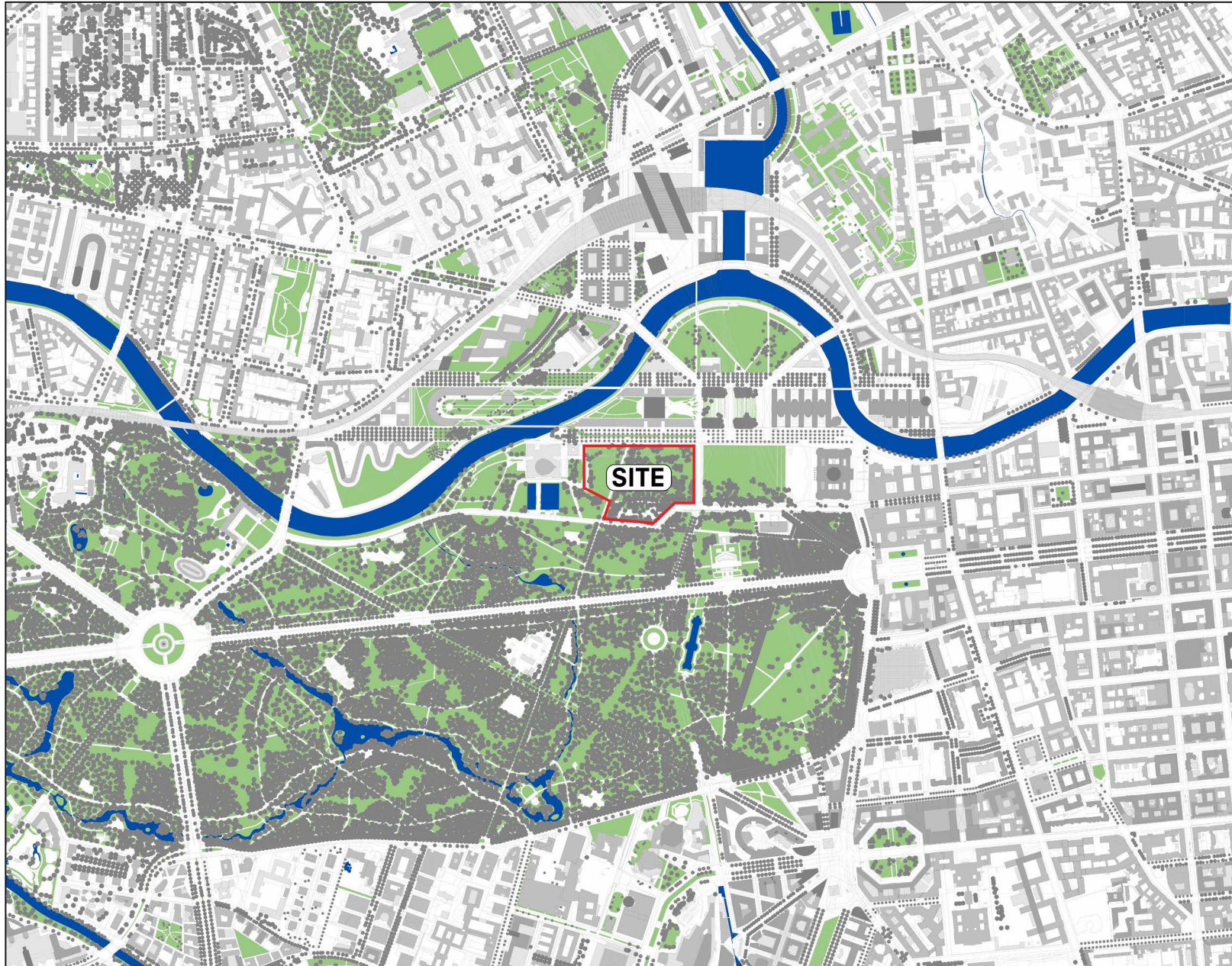
Site
SITE CHOICE



Site

RESEARCH

M-Scale: Parks, open spaces, and water

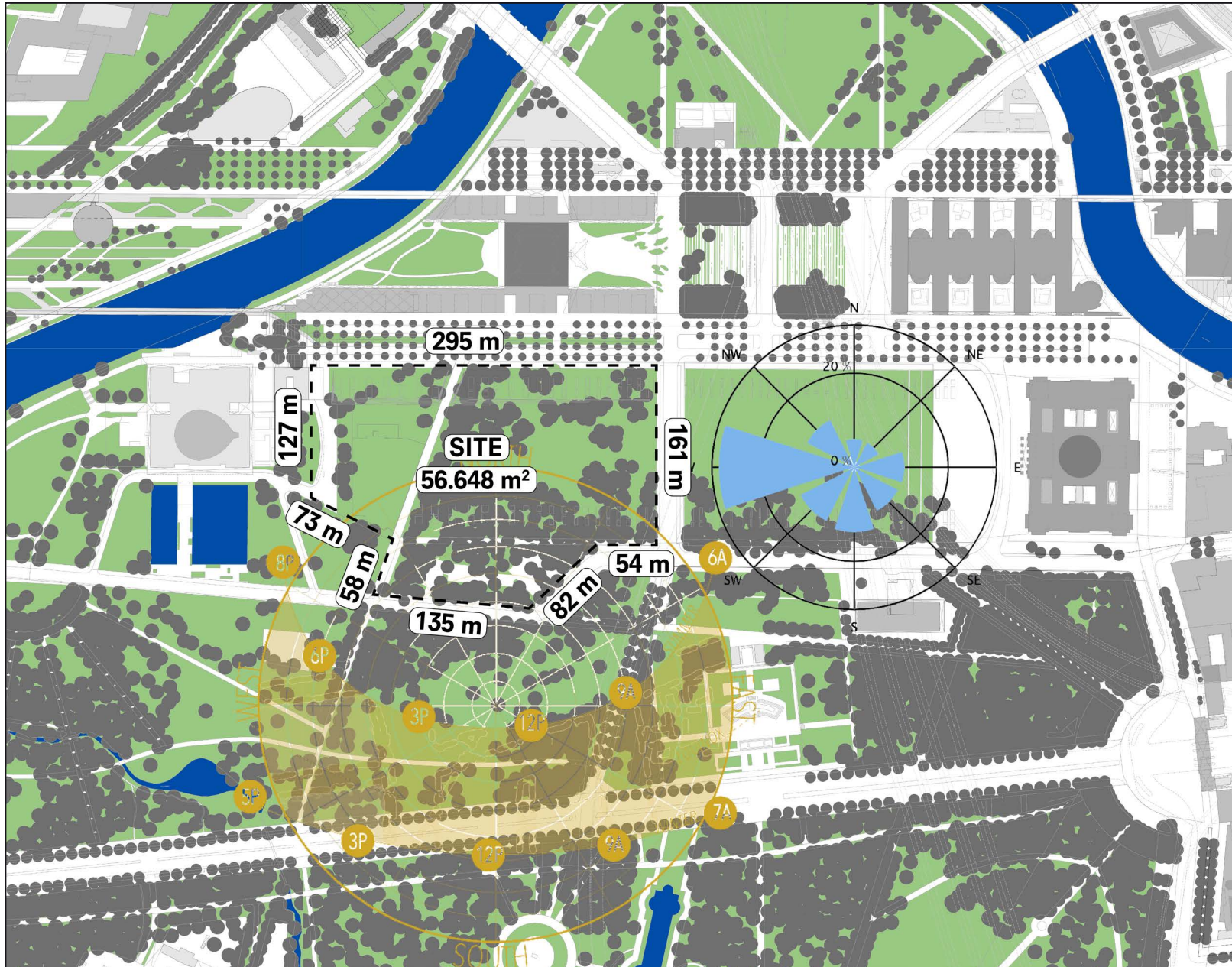


Legend

- Water
- Open spaces
- Site boundaries

Site
RESEARCH

S-Scale: Parks, open spaces, and water

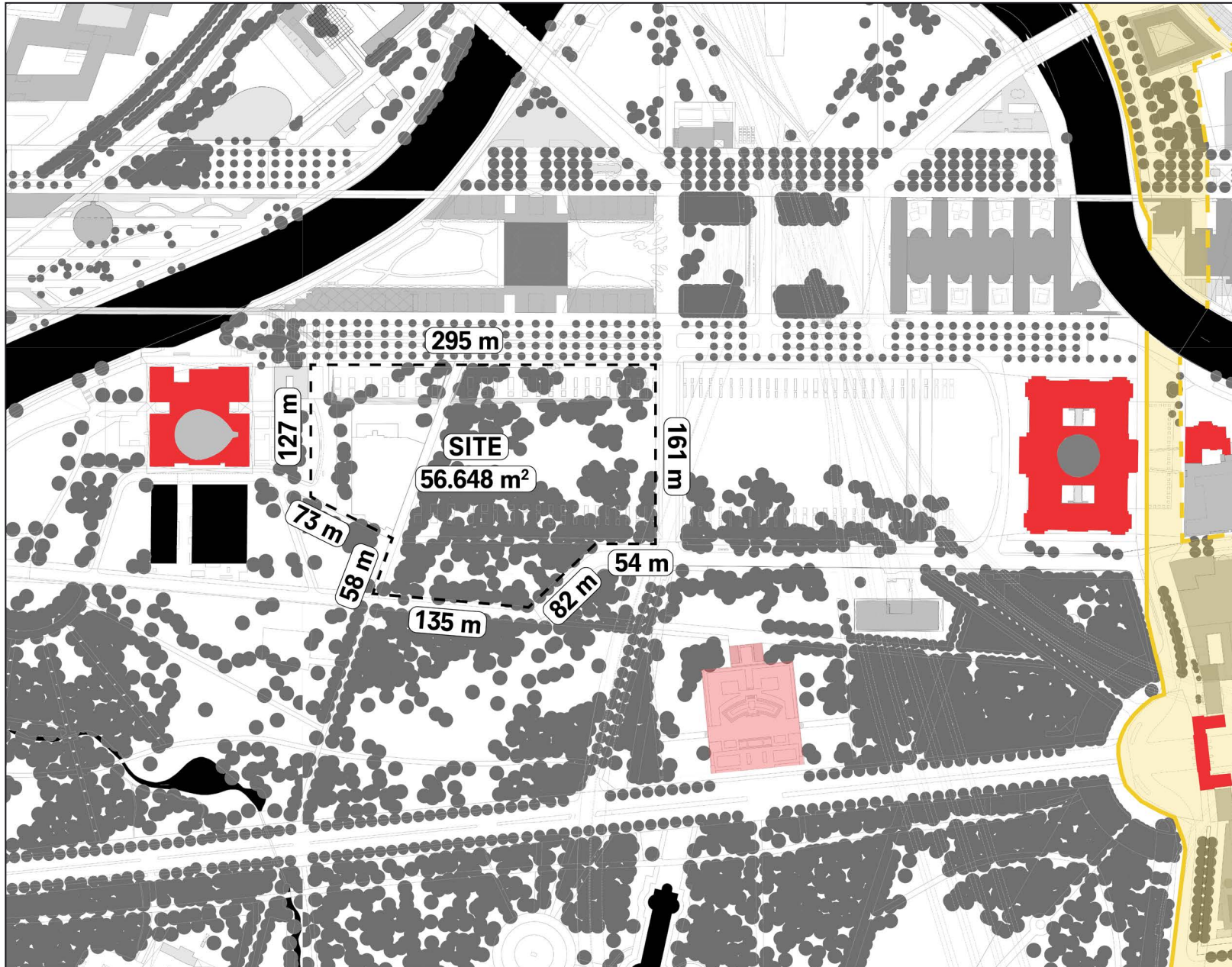


Legend

- Water
- Open spaces
- Site boundaries

Site
RESEARCH

S-Scale: History and heritage



Legend

- Monuments
- Former Berlin Wall
- Site boundaries

Site

RESEARCH

S-Scale: Building forms, heights and views



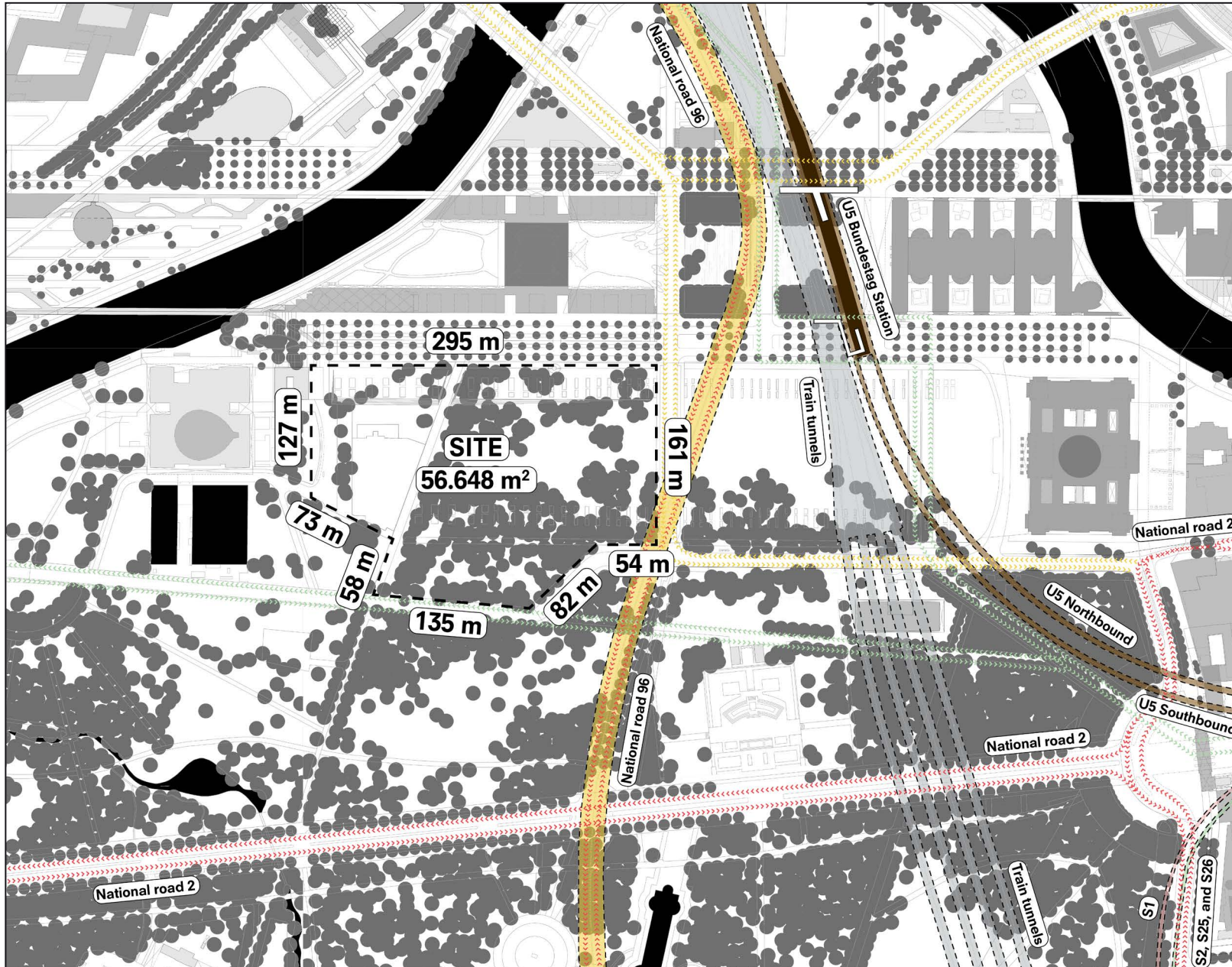
Legend

- 0-10 meters
- 10-20 meters
- 20-30 meters
- 30-40 meters
- Courtyards
- Form follows river
- Site boundaries
- Sightlines
- Democratic ribbon

Site

RESEARCH

S-Scale: Public transportation, traffic, pedestrian, and tunnels



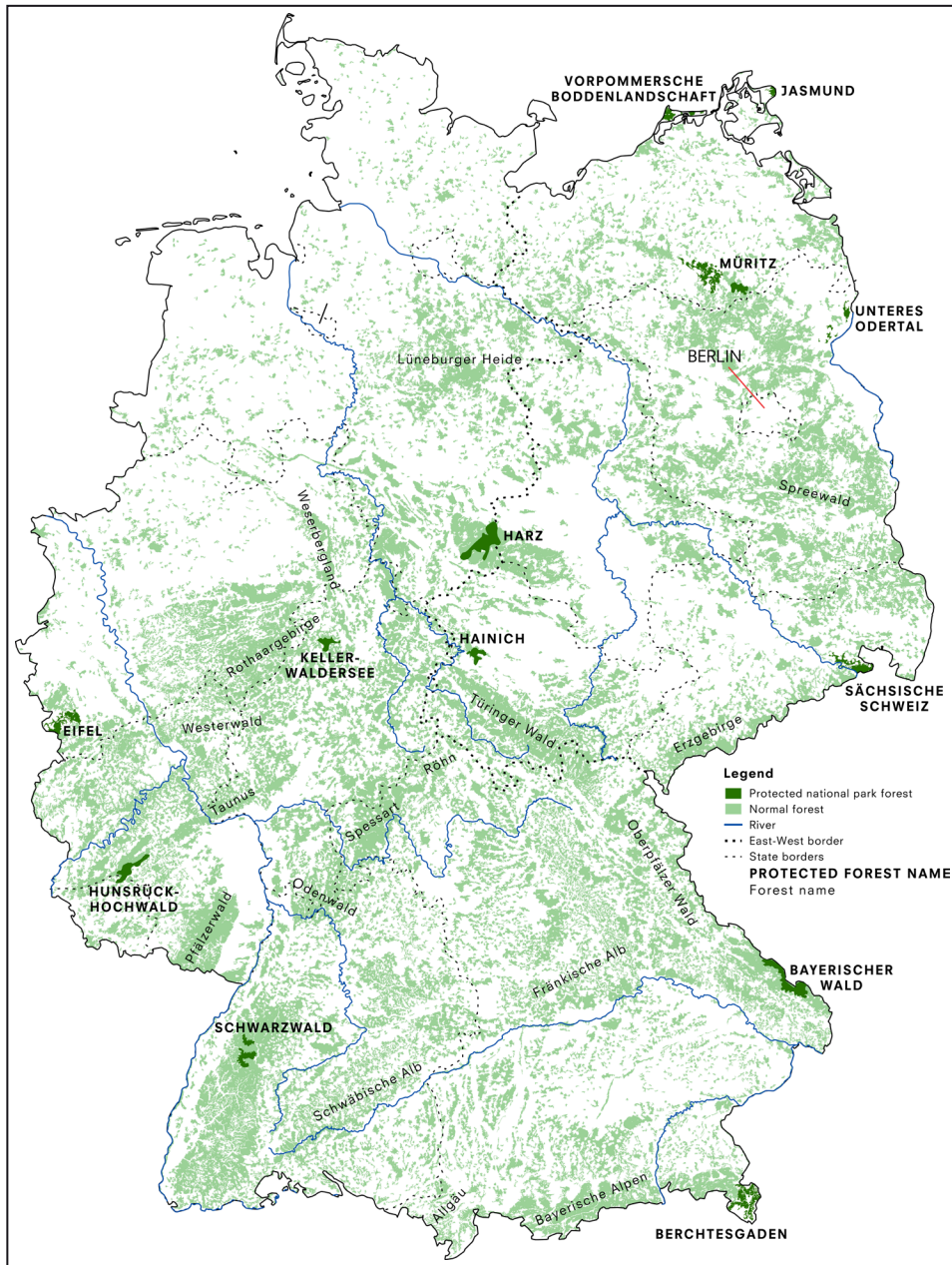
Legend

- U5 U-Bahn
- Train tunnels
- Road tunnels
- S1 S-Bahn
- S2 S-Bahn
- Site boundaries
- - - National road
- - - Main traffic
- - - Pedestrian traffic

Site

FORM FOLLOWS TREES

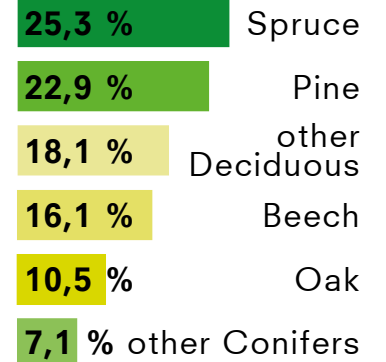
XL-Scale: Trees and forests in Germany



Total forest area in Germany



Main tree types in Germany



Legend



Site

FORM FOLLOWS TREES

M-Scale: Trees in Berlin Mitte



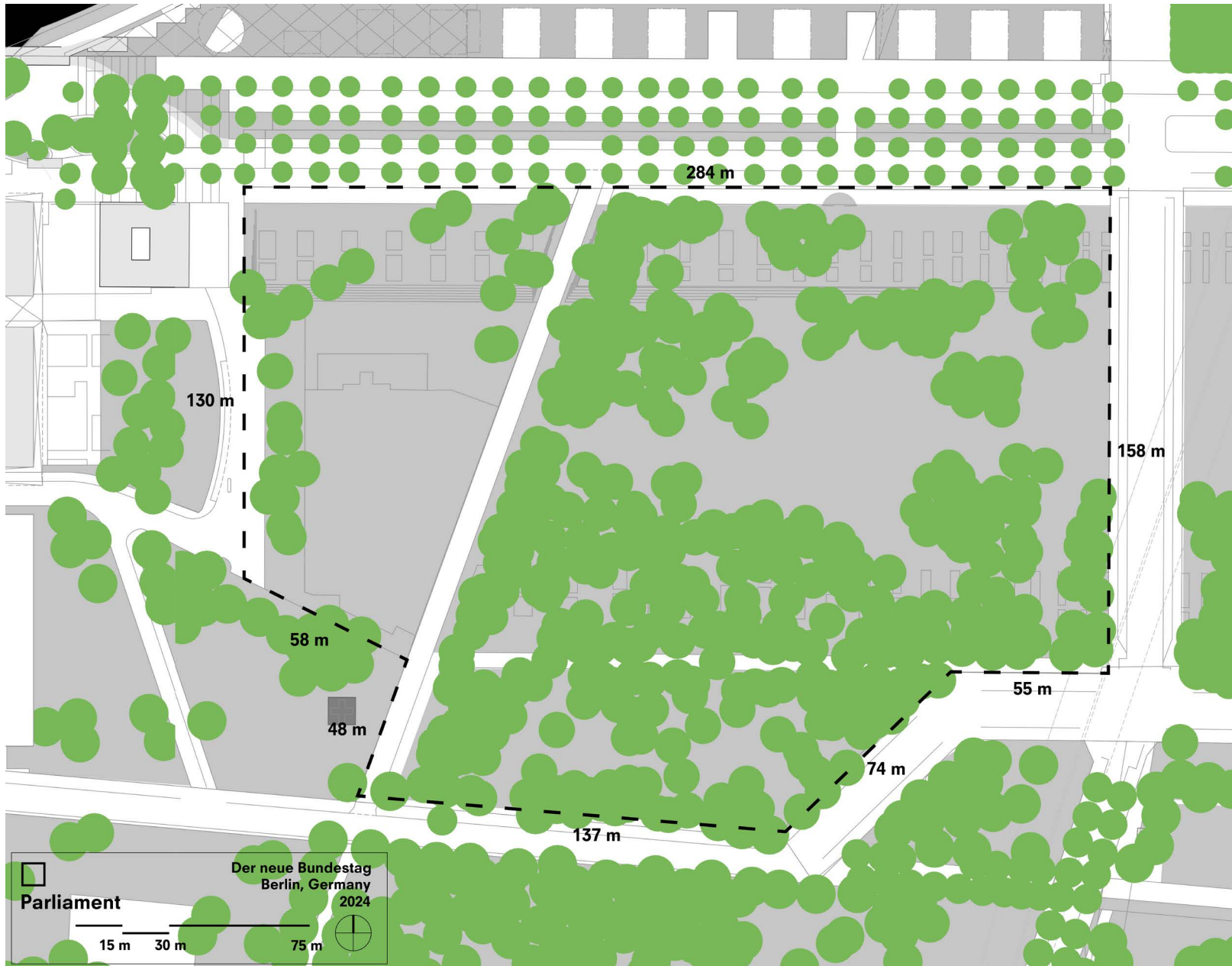
Legend

- Water
- Trees
- Site boundaries

Site

FORM FOLLOWS TREES

SITE-Scale: Trees on the site



Site FORM FOLLOWS TREES

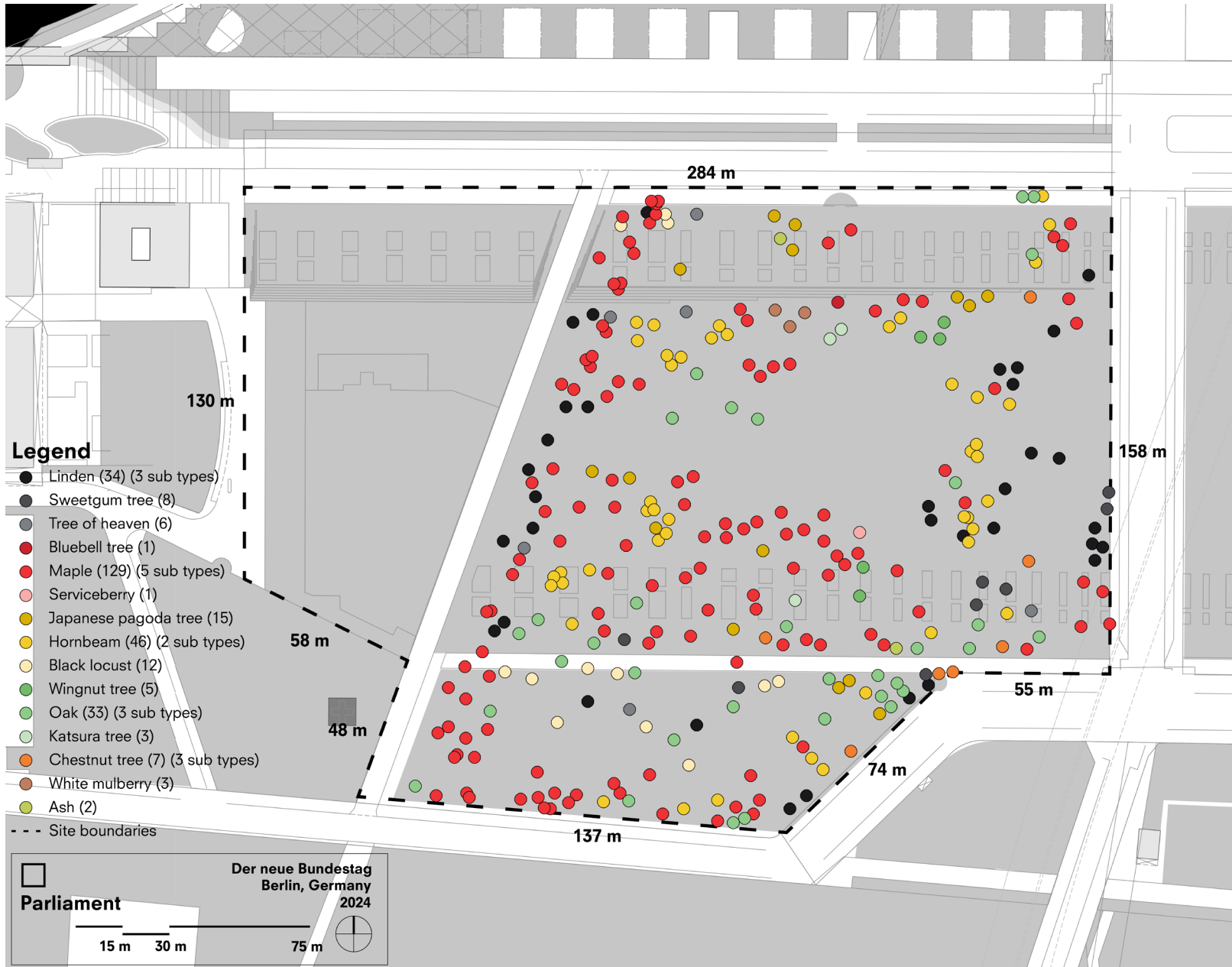
NUM-BER	SECTOR	NR.	GERMAN NAME	TYPE SCORE		AGE	AGE SCORE	HEIGHT	HEIGHT SCORE	BONUS SCORE	TOTAL SCORE	
				SITE	BERLIN GERMANY							
1	BLACK	60	Amberbaum	7	6	2	28	2	8	1	0	18
2	BLACK	96	Amberbaum	7	6	2	29	2	7	1	0	18
3	RED	87	Amberbaum	7	6	2	31	2	8	1	0	18
4	RED	88	Amberbaum	7	6	2	31	2	8	1	0	18
5	RED	80	Amberbaum	7	6	2	32	2	10	1	0	18
6	RED	34	Amberbaum	7	6	2	33	2	9	1	0	18
7	RED	72	Amberbaum	7	6	2	34	2	11	2	0	19
8	RED	76	Amberbaum	7	6	2	35	2	11	2	0	19
9	RED	24	Amerikanische Rot-Eiche	8	2	1	39	3	11	2	0	16
10	RED	7	Amerikanische Rot-Eiche	8	2	1	41	3	11	2	0	16
11	GOLD	79	Amerikanische Rot-Eiche	8	2	1	74	6	15	2	0	19
12	BLACK	21	Amerikanische Rot-Eiche	8	2	1	80	6	16	3	0	20
13	RED	58	Amerikanische Rot-Eiche	8	2	1	110	9	21	4	1	25
14	RED	46	Berg-Ahorn 'Atropurpureum'	3	1	1	67	5	16	3	1	15
15	GOLD	91	Berg-Ahorn, Weiss-Ahorn	3	1	1	22	1	8	1	1	9
16	RED	134	Berg-Ahorn, Weiss-Ahorn	3	1	1	31	2	8	1	1	10
17	GOLD	40	Berg-Ahorn, Weiss-Ahorn	3	1	1	33	2	7	1	1	10
18	RED	136	Berg-Ahorn, Weiss-Ahorn	3	1	1	33	2	8	1	1	10
19	RED	135	Berg-Ahorn, Weiss-Ahorn	3	1	1	34	2	8	1	1	10
20	RED	36	Berg-Ahorn, Weiss-Ahorn	3	1	1	35	2	10	1	1	10
21	RED	57	Berg-Ahorn, Weiss-Ahorn	3	1	1	38	3	12	2	1	12
22	BLACK	8	Berg-Ahorn, Weiss-Ahorn	3	1	1	58	4	12	2	1	13
23	GOLD	114	Berg-Ahorn, Weiss-Ahorn	3	1	1	61	5	12	2	1	14
24	BLACK	2	Berg-Ahorn, Weiss-Ahorn	3	1	1	61	5	15	2	1	14
25	GOLD	47	Berg-Ahorn, Weiss-Ahorn	3	1	1	61	5	15	2	1	14
26	GOLD	24	Berg-Ahorn, Weiss-Ahorn	3	1	1	62	5	12	2	1	14
27	RED	157	Berg-Ahorn, Weiss-Ahorn	3	1	1	62	5	15	2	1	14
28	GOLD	27	Berg-Ahorn, Weiss-Ahorn	3	1	1	66	5	12	2	1	14
29	GOLD	43	Berg-Ahorn, Weiss-Ahorn	3	1	1	66	5	14	2	1	14
30	RED	72	Berg-Ahorn, Weiss-Ahorn	3	1	1	67	5	15	2	1	14
31	RED	155	Berg-Ahorn, Weiss-Ahorn	3	1	1	69	5	15	2	1	14
32	GOLD	1	Berg-Ahorn, Weiss-Ahorn	3	1	1	71	5	15	2	1	14
33	GOLD	54	Berg-Ahorn, Weiss-Ahorn	3	1	1	61	5	17	3	1	15
34	RED	47	Berg-Ahorn, Weiss-Ahorn	3	1	1	67	5	16	3	1	15
35	GOLD	113	Berg-Ahorn, Weiss-Ahorn	3	1	1	74	6	13	2	1	15
36	GOLD	61	Berg-Ahorn, Weiss-Ahorn	3	1	1	74	6	16	3	1	16
37	GOLD	62	Berg-Ahorn, Weiss-Ahorn	3	1	1	74	6	16	3	1	16
38	RED	59	Berg-Ahorn, Weiss-Ahorn	3	1	1	75	6	20	3	1	16
39	BLACK	29	Berg-Ahorn, Weiss-Ahorn	3	1	1	76	6	17	3	1	16
40	GOLD	50	Berg-Ahorn, Weiss-Ahorn	3	1	1	79	6	18	3	1	16
41	GOLD	26	Berg-Ahorn, Weiss-Ahorn	3	1	1	86	7	12	2	1	16
42	GOLD	89	Blauglockenbaum	8	6	2	38	3	7	1	0	20
43	RED	119	Eisbeere	8	6	2	18	1	5	0	1	18
44	GOLD	33	Eschen-Ahorn	8	4	2	37	3	9	1	1	19
91	BLACK	39	Götterbaum	7	6	2	82	6	20	3	0	24
92	RED	166	Götterbaum	7	6	2	112	9	20	3	1	28
93	BLACK	74	Hainbuche	4	4	1	24	1	6	1	1	12
94	BLACK	72	Hainbuche	4	4	1	26	2	7	1	1	13
95	BLACK	75	Hainbuche	4	4	1	27	2	6	1	1	13
96	GOLD	106	Hainbuche	4	4	1	30	2	6	1	1	13
97	GOLD	104	Hainbuche	4	4	1	31	2	6	1	1	13
98	GOLD	93	Hainbuche	4	4	1	32	2	8	1	1	13
99	GOLD	92	Hainbuche	4	4	1	33	2	8	1	1	13
100	RED	78	Hainbuche	4	4	1	33	2	10	1	1	13
101	GOLD	107	Hainbuche	4	4	1	37	3	5	0	1	13
102	BLACK	64	Hainbuche	4	4	1	33	2	12	2	1	14
103	GOLD	23	Hainbuche	4	4	1	42	3	9	1	1	14
104	RED	112	Hainbuche	4	4	1	42	3	10	1	1	14
105	GOLD	22	Hainbuche	4	4	1	43	3	9	1	1	14
106	BLACK	43	Hainbuche	4	4	1	46	3	10	1	1	14
107	GOLD	29	Hainbuche	4	4	1	47	3	10	1	1	14
108	RED	109	Hainbuche	4	4	1	40	3	12	2	1	15
109	RED	110	Hainbuche	4	4	1	40	3	12	2	1	15
110	BLACK	58	Hainbuche	4	4	1	41	3	11	2	1	15
111	RED	102	Hainbuche	4	4	1	41	3	12	2	1	15
112	RED	15	Hainbuche	4	4	1	44	3	11	2	1	15
113	RED	104	Hainbuche	4	4	1	44	3	13	2	1	15
114	RED	101	Hainbuche	4	4	1	45	3	12	2	1	15
115	RED	111	Hainbuche	4	4	1	47	3	13	2	1	15
116	BLACK	86	Hainbuche	4	4	1	50	4	10	1	1	15
117	RED	103	Hainbuche	4	4	1	51	4	13	2	1	16
118	BLACK	54	Holländische Linde	2	0	0	84	6	17	3	2	15
119	BLACK	25	Holländische Linde	2	0	0	119	9	22	4	2	19
120	GOLD	32	Japanischer Schnurbaum	6	6	2	26	2	5	0	0	16
121	BLACK	128	Japanischer Schnurbaum	6	6	2	26	2	6	1	0	17
122	GOLD	102	Japanischer Schnurbaum	6	6	2	26	2	6	1	0	17
123	GOLD	15	Japanischer Schnurbaum	6	6	2	26	2	7	1	0	17
124	GOLD	100	Japanischer Schnurbaum	6	6	2	27	2	7	1	0	17
125	BLACK	85	Japanischer Schnurbaum	6	6	2	28	2	7	1	0	17
126	GOLD	99	Japanischer Schnurbaum	6	6	2	30	2	8	1	0	17
127	RED	28	Japanischer Schnurbaum	6	6	2	32	2	8	1	0	17
128	RED	128	Japanischer Schnurbaum	6	6	2	33	2	8	1	0	17
129	GOLD	14	Japanischer Schnurbaum	6	6	2	33	2	8	1	0	17
130	RED	143	Japanischer Schnurbaum	6	6	2	34	2	9	1	0	17
131	RED	154	Japanischer Schnurbaum	6	6	2	35	2	6	1	0	17
132	GOLD	34	Japanischer Schnurbaum	6	6	2	37	3	8	1	0	18
133	RED	149	Japanischer Schnurbaum	6	6	2	37	3	9	1	0	18
134	BLACK	88	Japanischer Schnurbaum	6	6	2	44	3	10	1	0	18
135	GOLD	86	Katsurabaum, Kuchenbaum	8	6	2	33	2	9	1	0	19
136	GOLD	87	Katsurabaum, Kuchenbaum	8	6	2	34	2	9	1	0	19

45	RED	10	Esskastanie, Marone	7	3	2	32	2	7	1	0	15	
46	RED	26	Esskastanie, Marone	7	3	2	35	2	8	1	0	15	
47	RED	118	Feld-Ahorn	3	1	1	2	21	1	7	1	1	9
48	RED	120	Feld-Ahorn	3	1	1	2	21	1	7	1	1	9
49	RED	121	Feld-Ahorn	3	1	1	2	23	1	7	1	1	9
50	GOLD	94	Feld-Ahorn	3	1	1	2	28	2	6	1	1	10
51	GOLD	77	Feld-Ahorn	3	1	1	2	35	2	8	1	1	10
52	RED	20	Feld-Ahorn	3	1	1	2	35	2	9	1	1	10
53	GOLD	95	Feld-Ahorn	3	1	1	2	36	2	7	1	1	10
54	BLACK	7	Feld-Ahorn	3	1	1	2	37	3	8	1	1	11
55	GOLD	78	Feld-Ahorn	3	1	1	2	38	3	6	1	1	11
56	GOLD	59	Feld-Ahorn	3	1	1	2	40	3	10	1	1	11
57	RED	21	Feld-Ahorn	3	1	1	2	42	3	9	1	1	11
58	GOLD	6	Feld-Ahorn	3	1	1	2	39	3	11	2	1	12
59	GOLD	8	Feld-Ahorn	3	1	1	2	41	3	13	2	1	12
60	GOLD	36	Feld-Ahorn	3	1	1	2	41	3	13	2	1	12
61	BLACK	13	Feld-Ahorn	3	1	1	2	43	3	12	2	1	12
62	BLACK	14	Feld-Ahorn	3	1	1	2	43	3	12	2	1	12
63	GOLD	4	Feld-Ahorn	3	1	1	2	45	3	13	2	1	12
64	RED	108	Feld-Ahorn	3	1	1	2	47	3	14	2	1	12
65	GOLD	55	Feld-Ahorn	3	1	1	2	50	4	12	2	1	13
66	GOLD	37	Feld-Ahorn	3	1	1	2	53	4	13	2	1	13
67	GOLD	52	Feld-Ahorn	3	1	1	2	53	4	15	2	1	13
68	RED	164	Feld-Ahorn	3	1	1	2	55	4	14	2	1	13
69	BLACK	4	Feld-Ahorn	3	1	1	2	69	5	15	2	1	14
70	RED	159	Feld-Ahorn	3	1	1	2	72	5	15	2	1	14
71	GOLD	9	Feld-Ahorn	3	1	1	2	65	5	16	3	1	15
72	RED	167	Feld-Ahorn	3	1	1	2	74	6	18	3	1	16
73	GOLD	85	Feuer-Ahorn	7	1	2	22	1	7	1	1	13	
74	GOLD	18	Feuer-Ahorn	7	1	2	25	2	6	1	1	14	
75	GOLD	30	Feuer-Ahorn	7	1	2	20	2	6	1	1	14	
76	GOLD	96	Flügelhuss	8	6	2	31	2	7	1	0	19	
77	GOLD	98	Flügelhuss	8	6	2	33	2	8	1	0	19	
78	RED	117	Flügelhuss	8	6	2	33	2	9	1	0	19	
79	GOLD	97	Flügelhuss	8	6	2	38	3	8	1	0	20	
80	RED	69	Flügelhuss	8	6	2	43	3	10	1	0	20	
81	BLACK	97	Gemeine Rosskastanie	7	3	2	37	3	9	1	0	16	
82	BLACK	78	Gemeine Rosskastanie	7	3	2	39	3	9	1	0	16	
83	BLACK	98	Gemeine Rosskastanie	7	3	2	41	3	9	1	0	16	
84	RED	8	Beschlitzter Silber-Ahorn	5	1	2	35	2	10	1	1	12	
85	RED	67	Beschlitzter Silber-Ahorn	5	1	2	75	6	17	3	1	16	
86	RED	8	Gewöhnliche Esche	7	1	2	34	2	11	2	0	13	
87	RED	81	Götterbaum	7	6	2	41	3	11	2	0	20	
88	GOLD	46	Götterbaum	7	6	2	70	5	17	3	0	25	
89	GOLD	12	Götterbaum	7	6	2	79	6	16	3	0	24	
90	GOLD	73	Götterbaum	7	6	2	82	6	16	3	0	24	
137	RED	66	Katsurabaum, Kuchenbaum	8	6	2	36	2	10	1	0	19	
138	RED	106	Pyramiden-Eiche	3	2	1	38	3	13	2	1	12	
139	RED	141	Pyramiden-Hainbuche	4	4	1	29	2	9	1	1	13	
140	GOLD	64	Pyramiden-Hainbuche	4	4	1	30	2	9	1	1	13	
141	RED	146	Pyramiden-Hainbuche	4	4	1	31	2	10	1	1	13	
142	GOLD	66	Pyramiden-Hainbuche	4	4	1	32	2	10	1	1	13	
143	RED	140	Pyramiden-Hainbuche	4	4	1	34	2	9	1	1	13	
144	RED	39	Pyramiden-Hainbuche	4	4	1	34	2	10	1	1	13	
145	GOLD	74	Pyramiden-Hainbuche	4	4	1	35	2	9	1	1	13	
146	GOLD	75	Pyramiden-Hainbuche	4	4	1	35	2	9	1	1	13	
147	GOLD	76	Pyramiden-Hainbuche	4	4	1	35	2	9	1	1	13	
148	RED	152	Pyramiden-Hainbuche	4	4	1	35	2	10	1	1	13	
149	RED	156	Pyramiden-Hainbuche	4	4	1	35	2	10	1	1	13	
150	GOLD	63	Pyramiden-Hainbuche	4	4	1	36	2	9	1	1	13	
151	GOLD	68	Pyramiden-Hainbuche	4	4	1	36	2	10	1	1	13	
152	RED	54	Pyramiden-Hainbuche	4	4	1	35	2	11	2	1	14	
153	RED	51	Pyramiden-Hainbuche	4	4	1	35	2	12	2	1	14	
154	RED	52	Pyramiden-Hainbuche	4	4	1	35	2	12	2	1	14	
155	RED	145	Pyramiden-Hainbuche	4	4	1	37	3	10	1	1	14	
156	GOLD	67	Pyramiden-Hainbuche	4	4	1	37	3	10	1	1	14	
157	RED	144	Pyramiden-Hainbuche	4	4	1	38	3	10	1	1	14	
158	RED	142	Pyramiden-Hainbuche	4	4	1	39	3	10	1	1	14	
159	GOLD	65	Pyramiden-Hainbuche	4	4	1	43	3	10	1	1	14	
160	GOLD	63	Robinie	6	3	2	37	3	12	2	0	16	
161	BLACK	63	Robinie	6	3	2	38	3	12	2	0	16	
162	BLACK	19	Robinie	6	3	2	40	3	11	2	0	16	
163	BLACK	22	Robinie	6	3	2	40	3	12	2	0	16	
164	BLACK	20	Robinie	6	3	2	42	3	11	2	0	16	
165	BLACK	24	Robinie	6	3	2	43	3	12	2	0	16	
166	BLACK	26	Robinie	6	3	2	43	3	12	2	0	16	
167	GOLD	11	Robinie	6	3	2	43	3	12	2	0	16	
168	BLACK	62	Robinie	6	3	2	45	3	13	2	0	16	
169	BLACK	41	Robinie	6	3	2	53	4	15	2	0	17	
170	BLACK	55	Robinie	6	3	2	71	5	17	3	0	19	
171	GOLD	2	Robinie	6	3	2	77	6	15	2	0	19	
172	RED	126	Rot-Ahorn	7	1	2	33	2	8	1	1	14	
173	RED	139	Rot-Ahorn	7	1	2	33	2	8	1	1	14	
174	RED	138	Rot-Ahorn	7	1	2	37	3	8	1	1	15	
175	RED	137	Rot-Ahorn	7	1	2	37	3	9	1	1	15	
176	GOLD	112	Rotblühende Rosskastanie	7	3	2	81	6	10	1	0	19	
177	RED	94	Rotblühende Rosskastanie	7	3	2	82	6	13	2	0	19	
178	GOLD	108	Silber-Ahorn	5	1	2	30	2	9	1	1	12	
179	GOLD	82	Silber-Ahorn	5	1	2	33	2	9	1	1	12	
180	GOLD	83	Silber-Ahorn	5	1	2	34	2	10	1	1	12	
181	GOLD	81	Silber-Ahorn	5	1	2	36	2	10	1	1	12	
182	RED	123	Silber-Ahorn	5	1	2	40	3	10	1	1	13	

Site

FORM FOLLOWS TREES

SITE-Scale: All tree types on the site (15 main types)



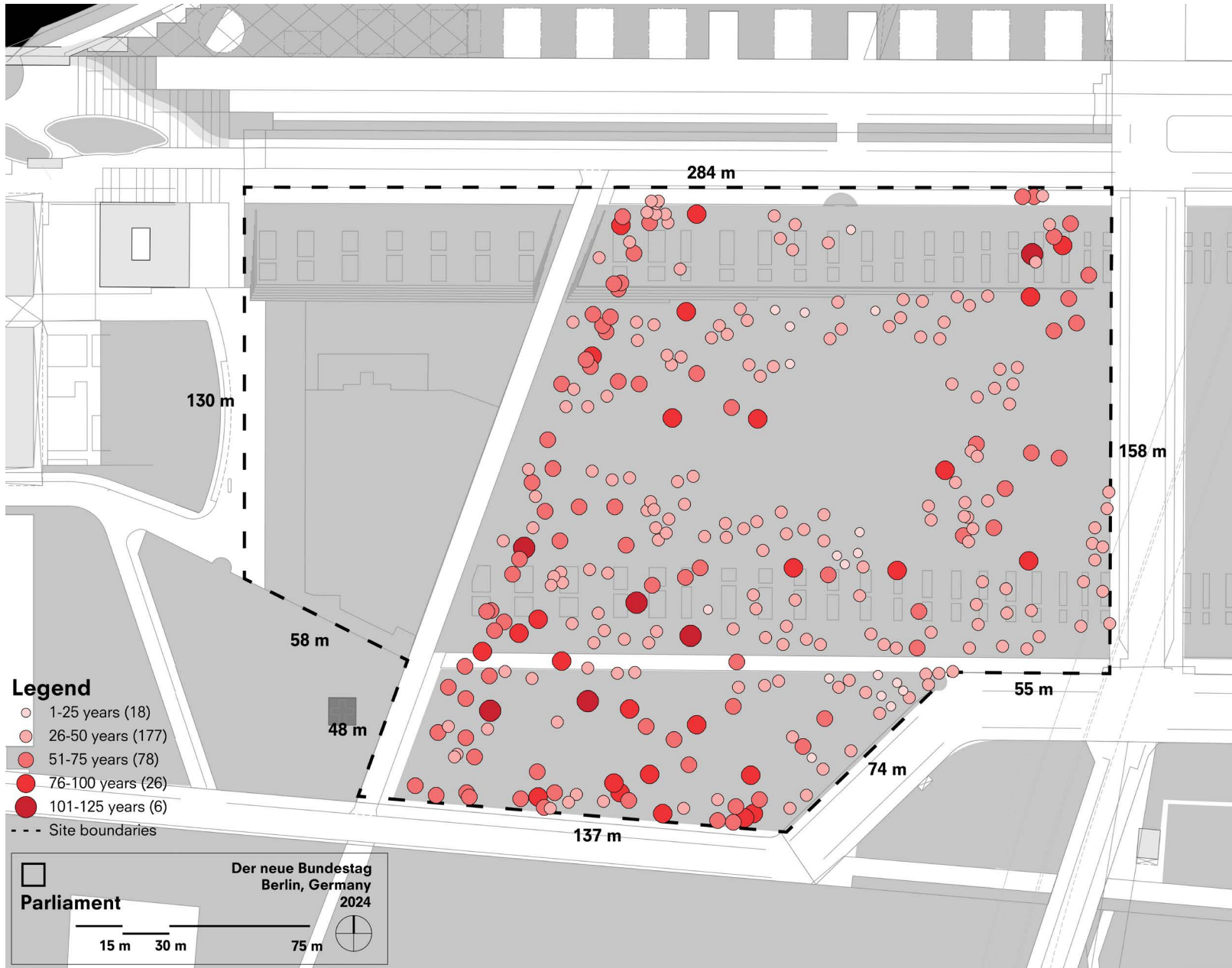
Legend

- Linden (34)
- Sweetgum tree (8)
- Tree of heaven (6)
- Bluebell tree (1)
- Maple (129)
- Serviceberry (1)
- Jap. pagoda tree (15)
- Hornbeam (46)
- Black locust (12)
- Wingnut tree (5)
- Oak (33)
- Katsura tree (3)
- Chestnut tree (7)
- White mulberry (3)
- Ash (2)
- Site boundaries

Site

FORM FOLLOWS TREES

SITE-Scale: Age map of trees on the site (1-125 years)



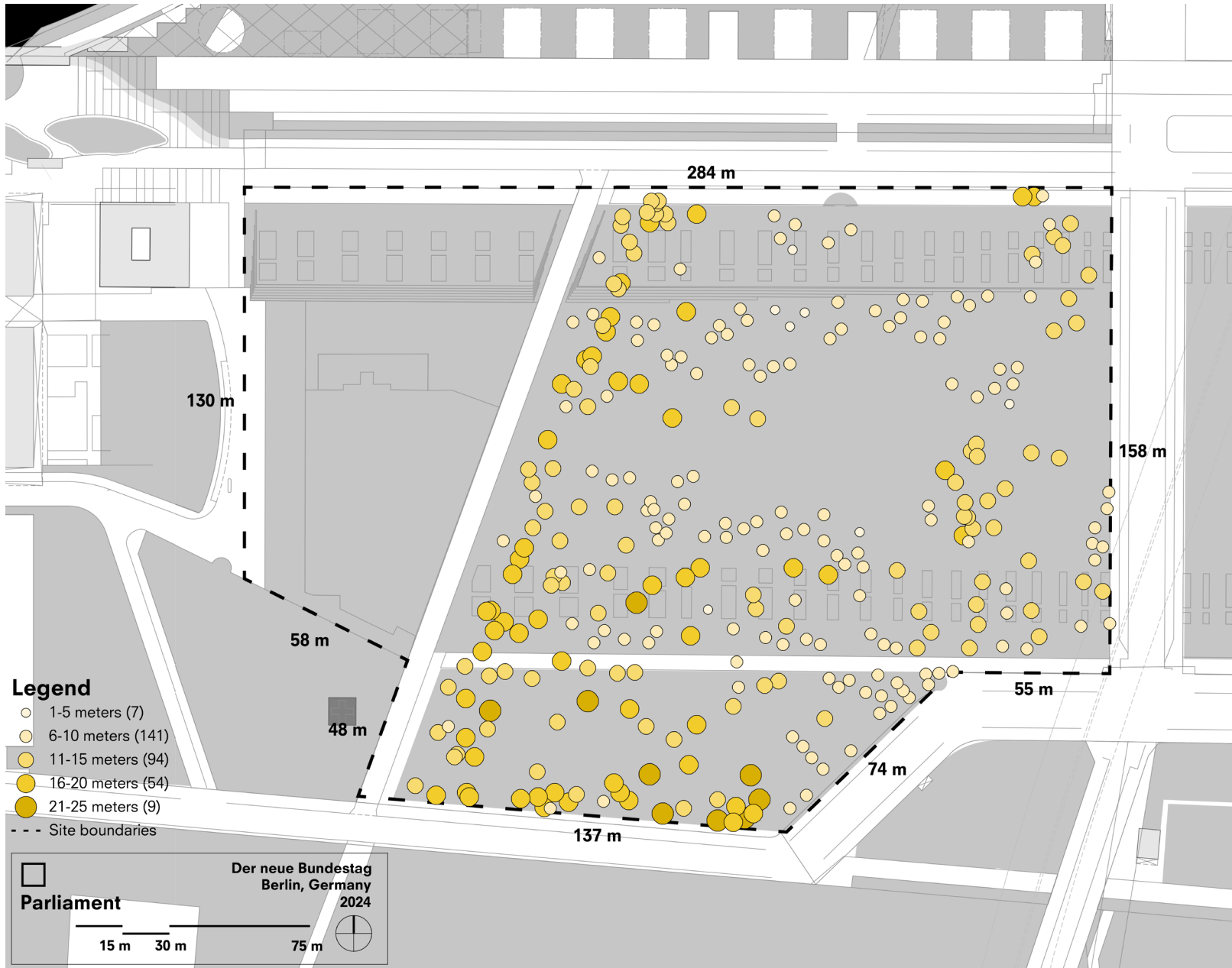
Legend

- 1-25 years (18)
- 26-50 years (177)
- 51-75 years (78)
- 76-100 years (26)
- 101-125 years (6)
- Site boundaries

Site

FORM FOLLOWS TREES

SITE-Scale: Height map of trees on the site (1-25 meters)



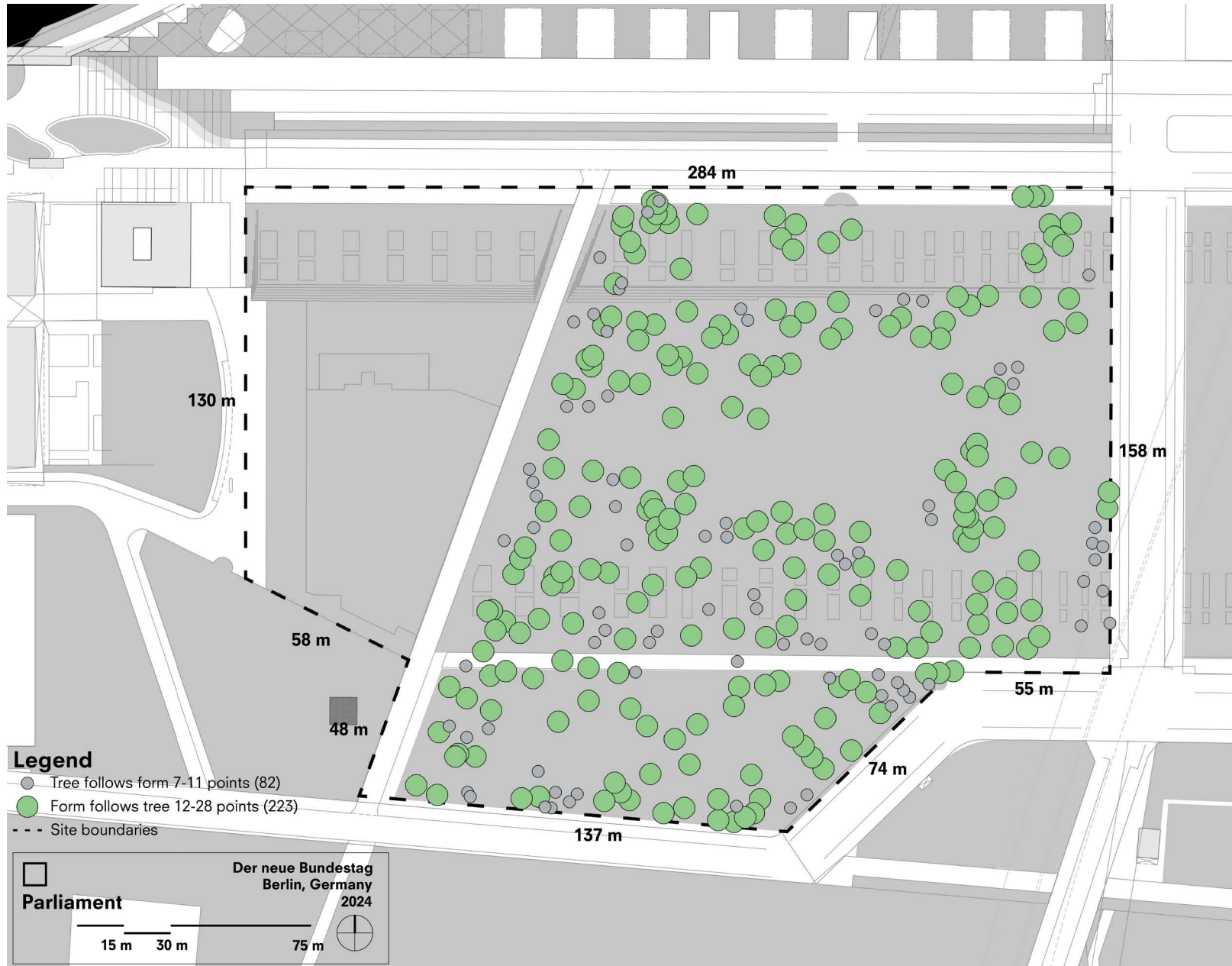
Legend

- 1-5 meters (7)
- 6-10 meters (141)
- 11-15 meters (94)
- 16-20 meters (54)
- 21-25 meters (9)
- Site boundaries

Site

FORM FOLLOWS TREES

SITE-Scale: Tree score map



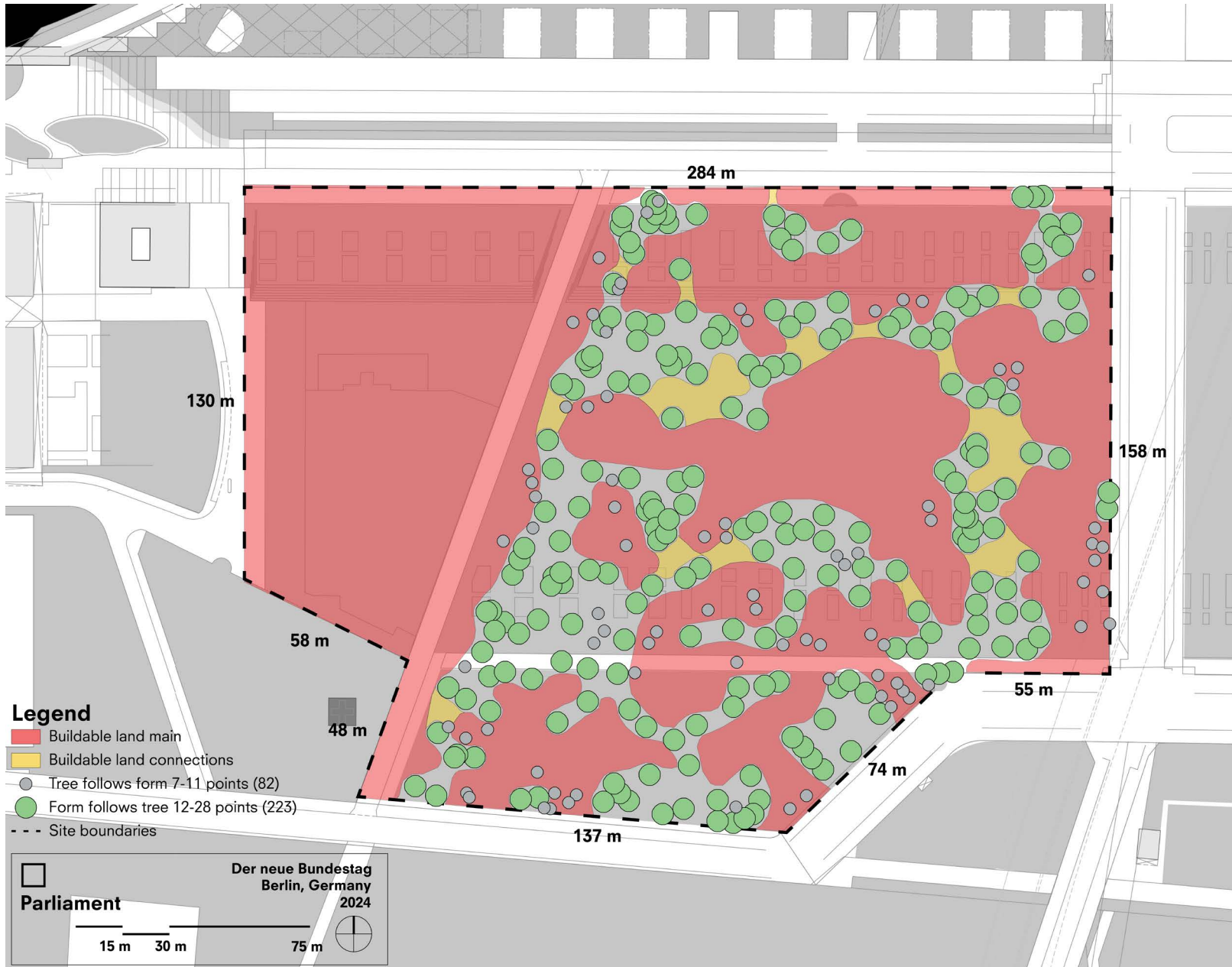
Legend

- Tree follows form-
7-11 points (82)
- Form follows tree-
12-28 points (223)
- Site boundaries

Site

FORM FOLLOWS TREES

SITE-Scale: Buildable area



Legend

- Buildable land main
- Buildable land-connections
- Tree follows form- 7-11 points (82)
- Form follows tree- 12-28 points (223)
- Site boundaries

DESIGN BRIEF



01

02

03

04

05

06

07

08

09

10

11

12

DESIGN BRIEF

01

02

03

04

05

06

07

DESIGN BRIEF SUMMARY

FIRST MASTERPLAN

08

09

10

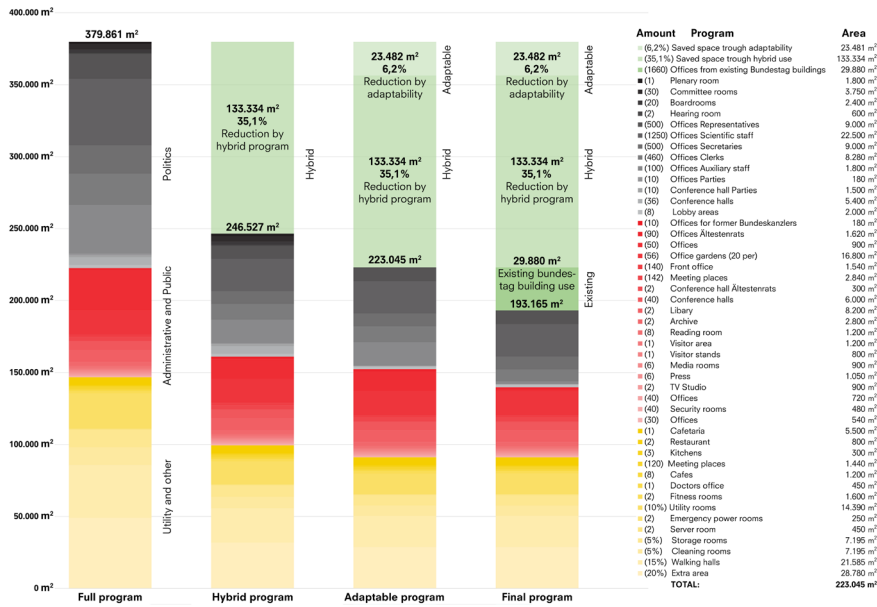
11

12

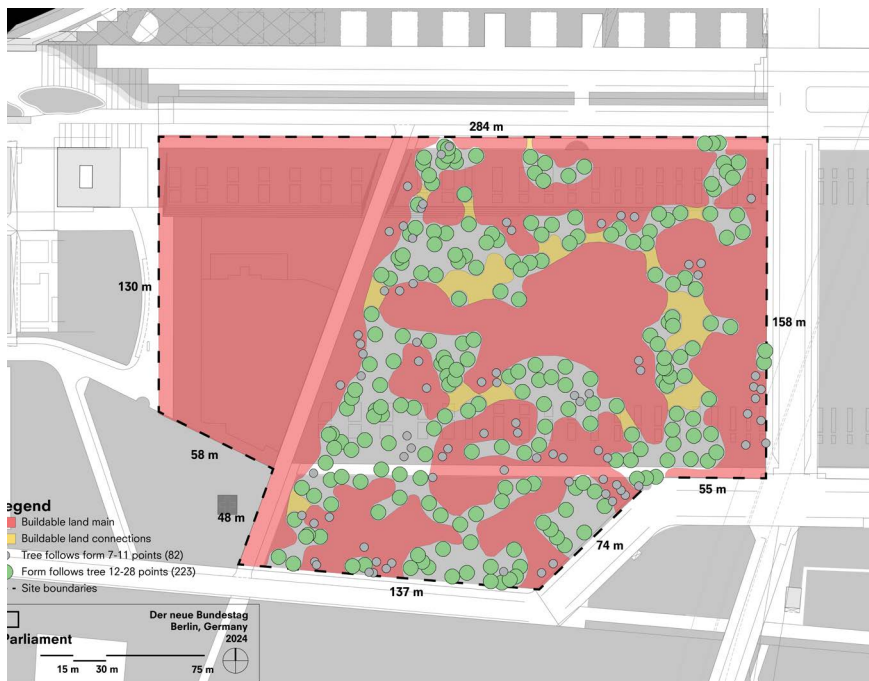


Design brief

DESIGN BRIEF SUMMARY

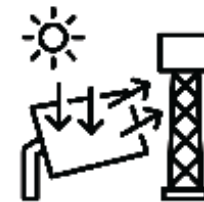


- MODERNIZATION AND EFFICIENCY
- SYMBOLISM AND TRADITION
- ACCESSIBILITY AND INCLUSIVITY
- SECURITY AND SAFETY
- NATIONAL IDENTITY
- PUBLIC PERCEPTION



R.93

Use small scale
Concentrated Solar
Power (CSP) to
produce and store
energy



USE OF CSP

DESIGN BRIEF

01

02

03

04

05

06

07

DESIGN BRIEF SUMMARY

FIRST MASTERPLAN

08

09

10

11

12



Design brief FIRST MASTERPLAN

284 m



CONCEPT



01

02

03

04

05

06

07

08

09

10

11

12

CONCEPT

01

02

03

04

05

06

07

08

CONCEPT EXPLANATION

RESEARCH QUESTION LINK

09

10

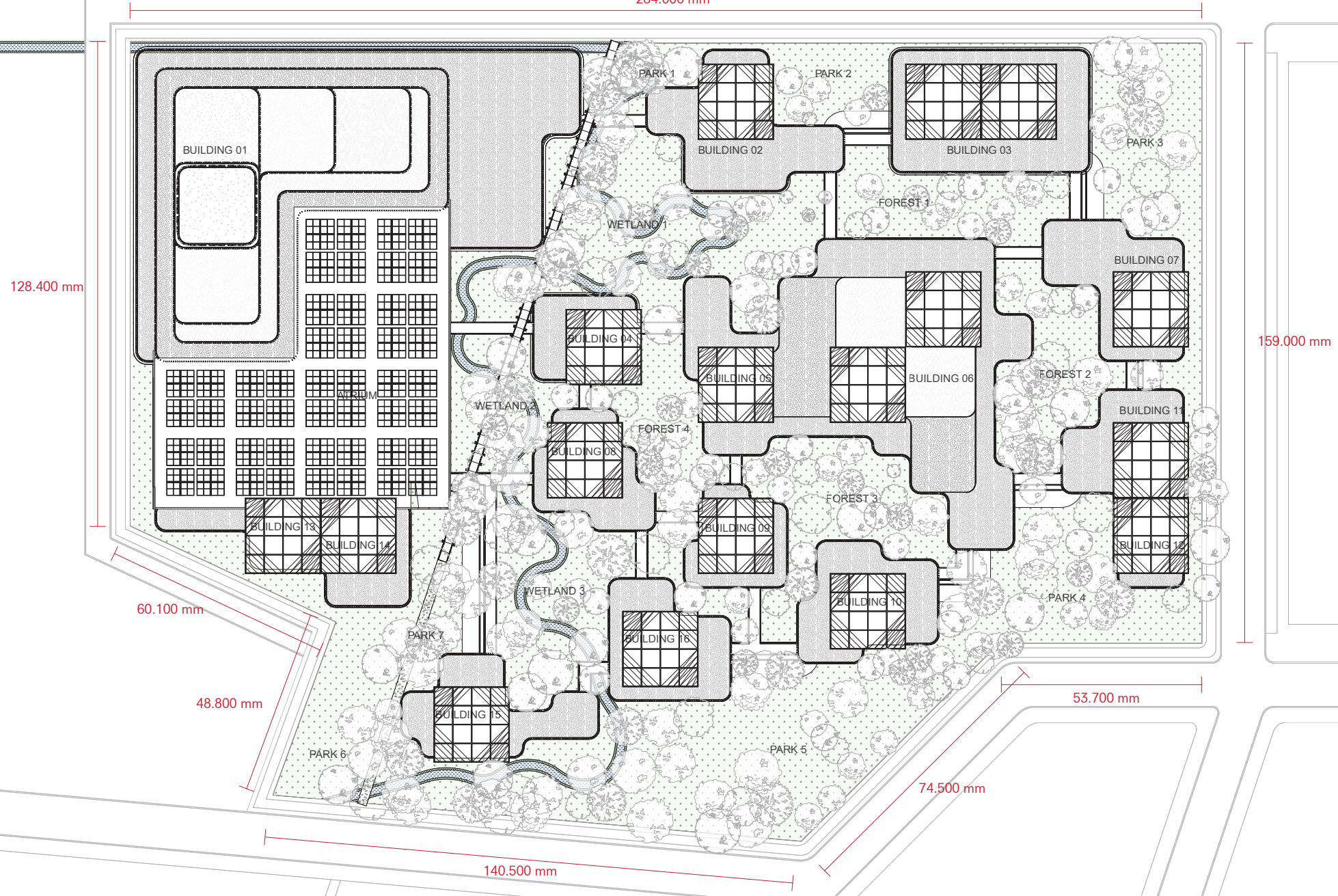
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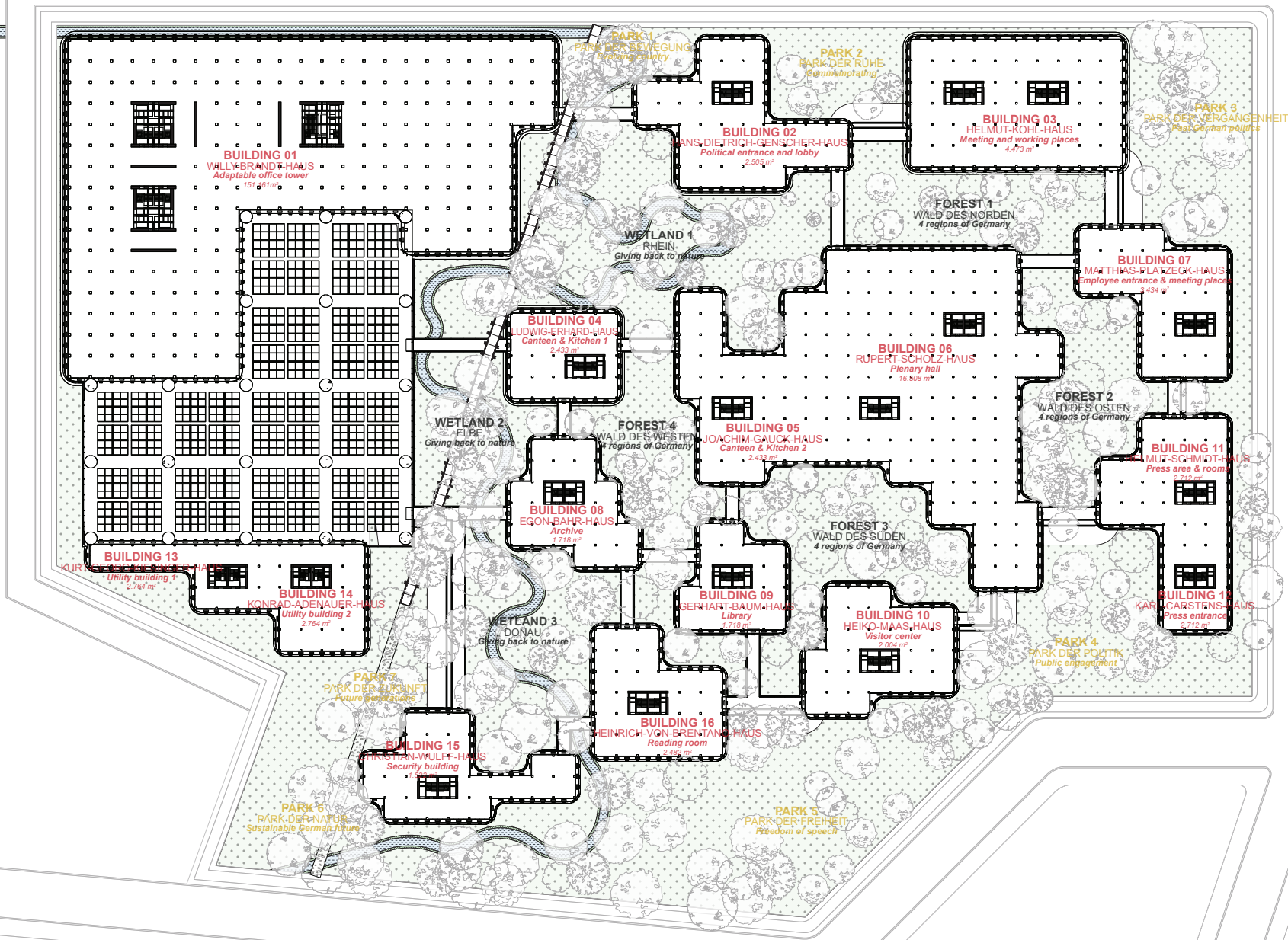
Concept

CONCEPT EXPLANATION



Concept

CONCEPT EXPLANATION



CONCEPT

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CONCEPT EXPLANATION

RESEARCH QUESTION LINK

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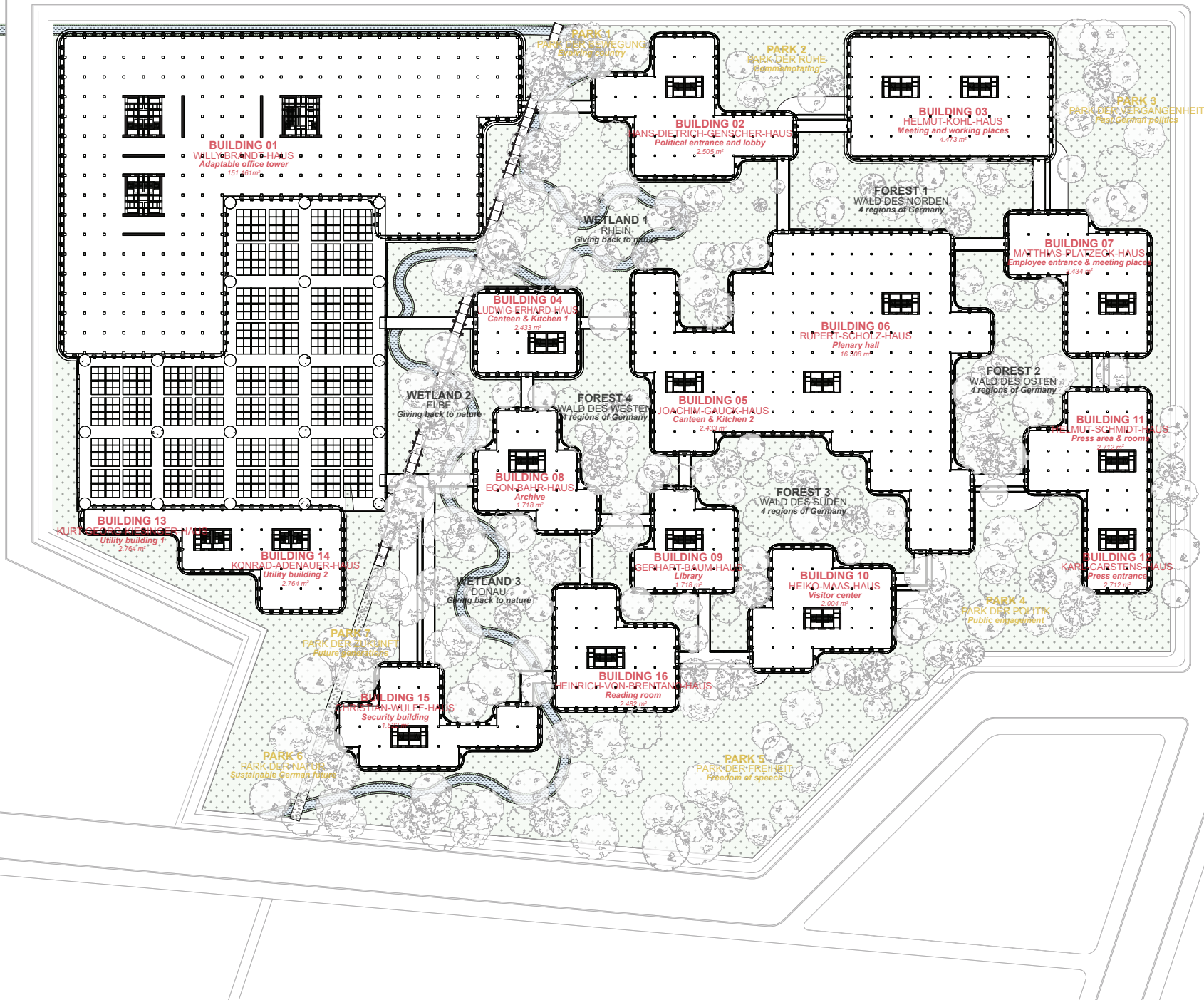
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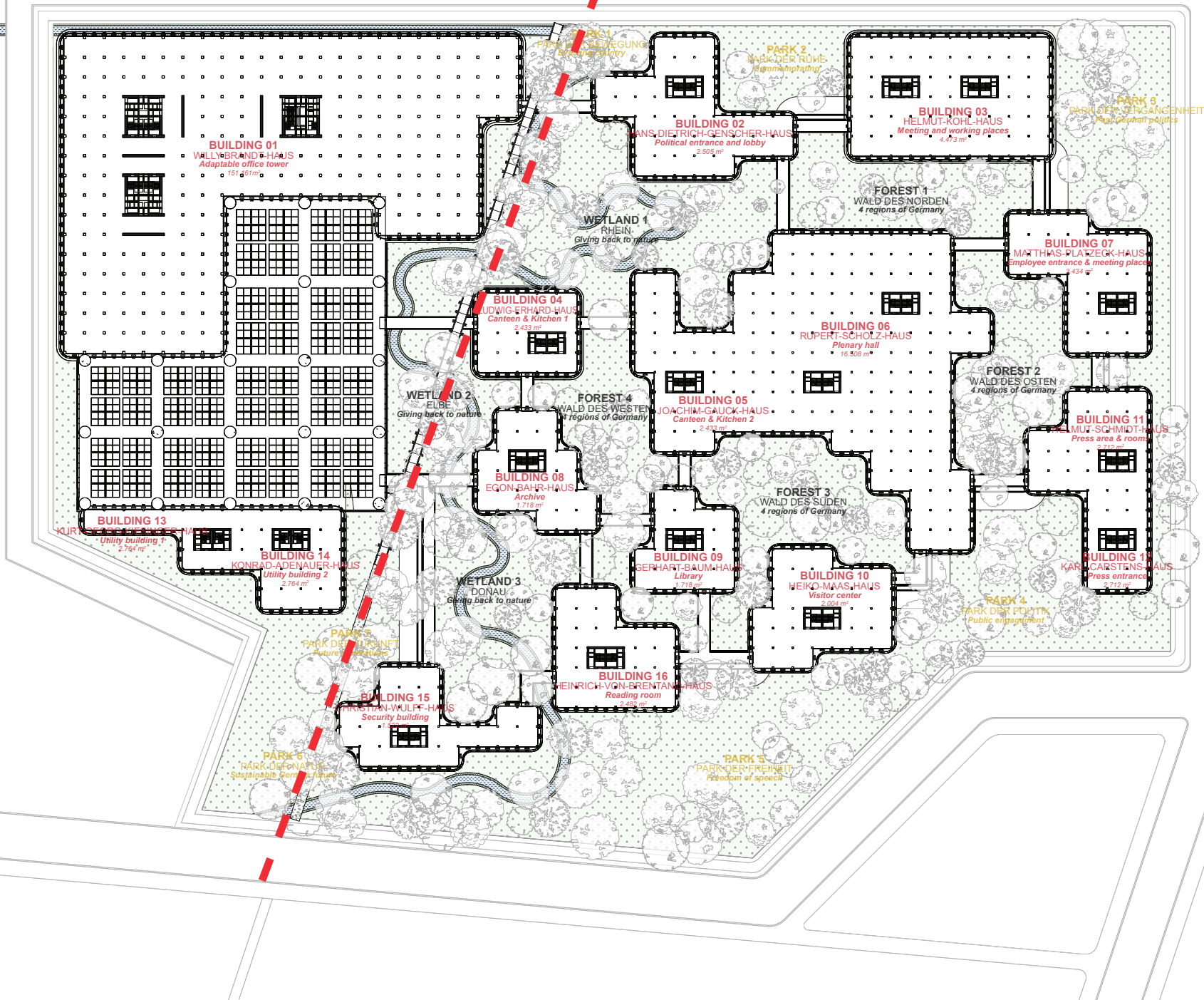
Concept

RESEARCH QUESTION LINK



Concept

RESEARCH QUESTION LINK



IMPLEMENTATION



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IMPLEMENTATION

01

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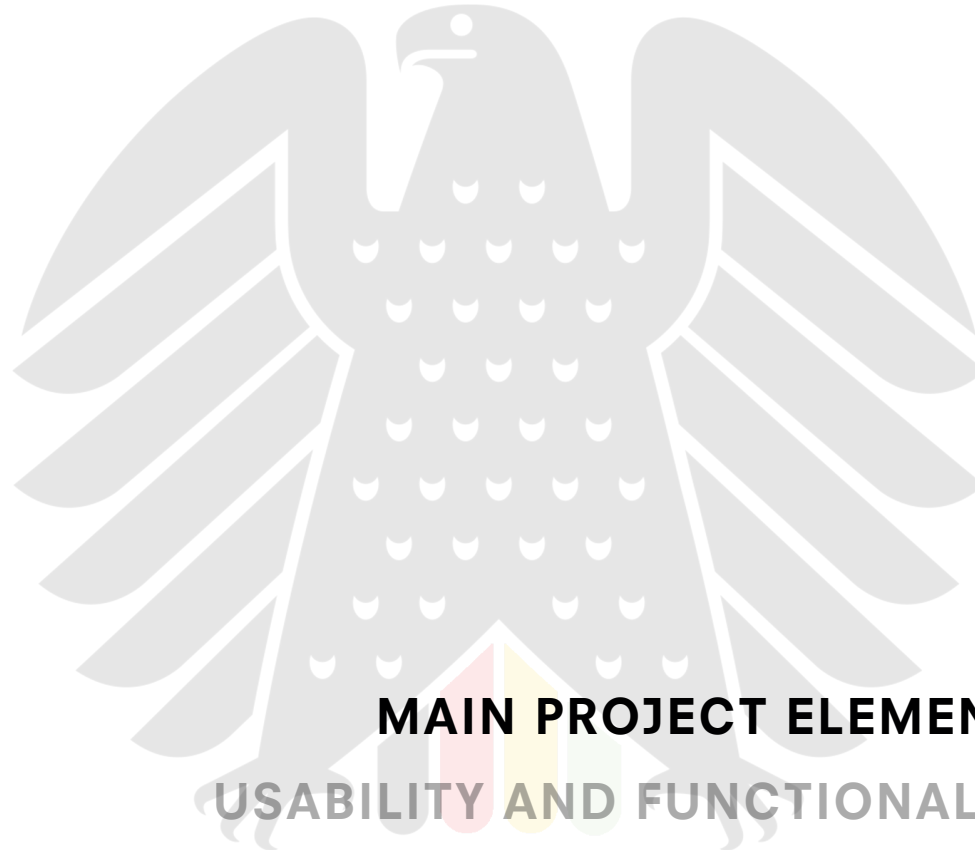
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MAIN PROJECT ELEMENTS

USABILITY AND FUNCTIONALITY

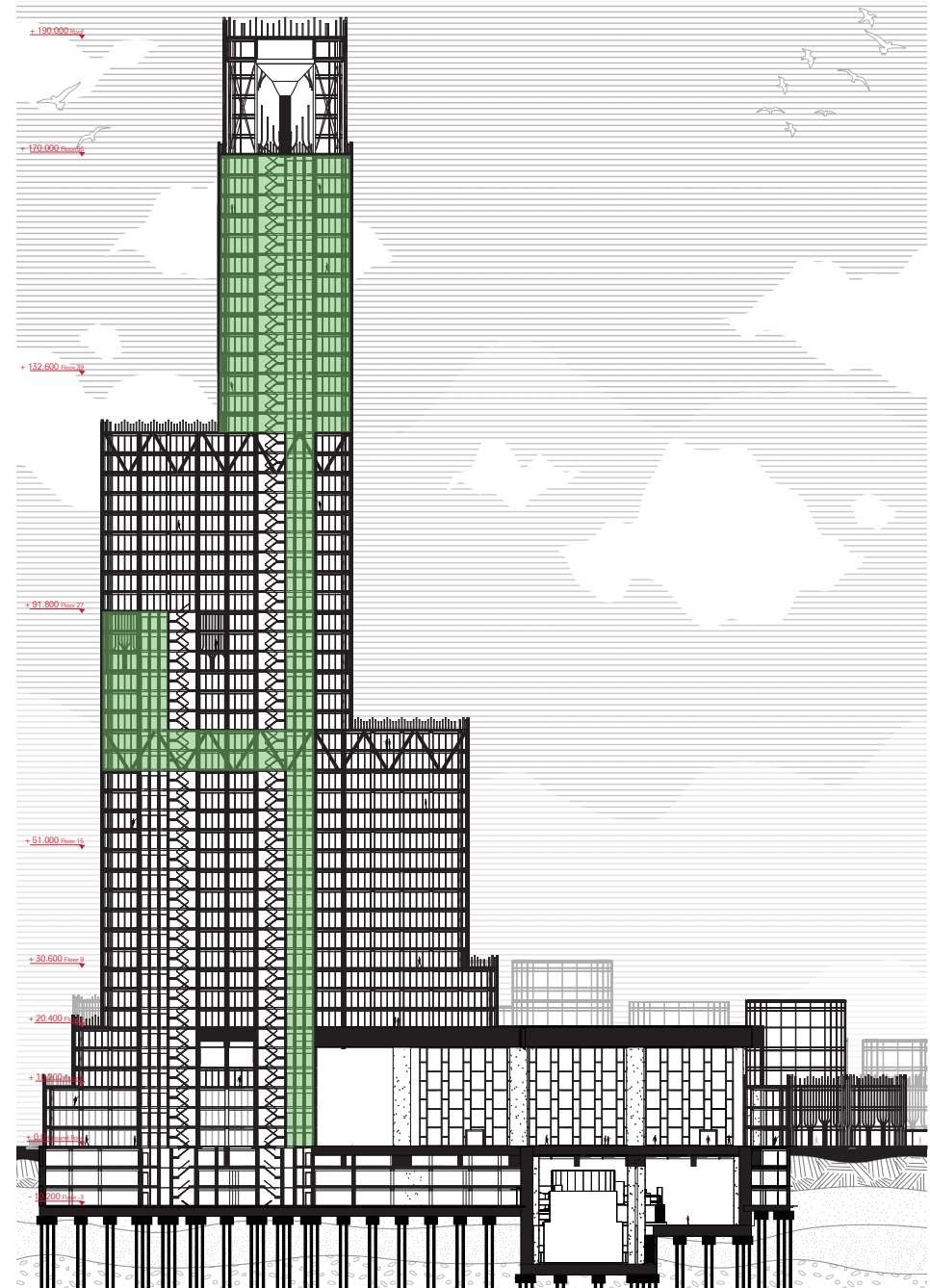
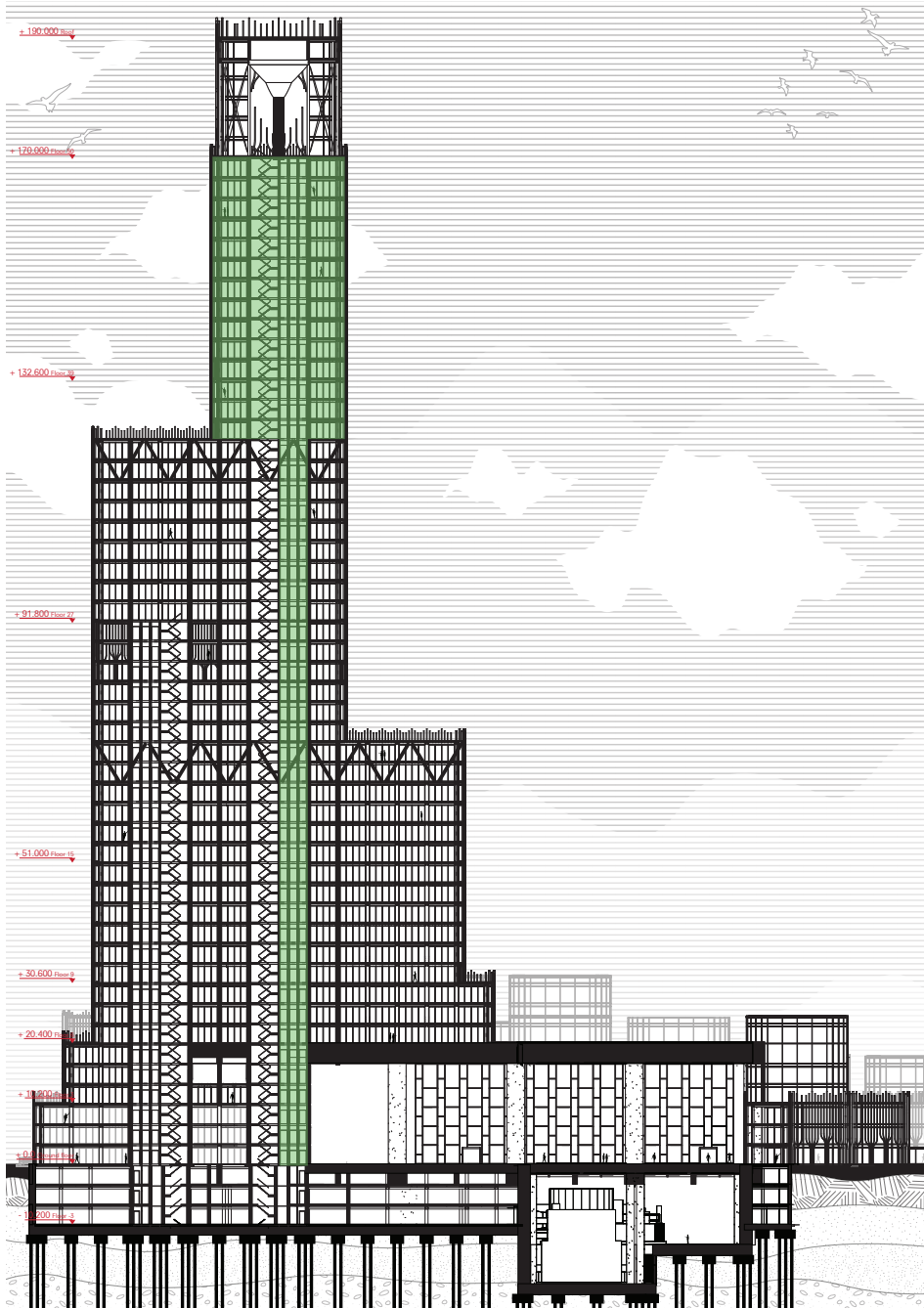
MATERIAL AND EXPERIENCE

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Implementation **ADAPTABILITY**



Implementation

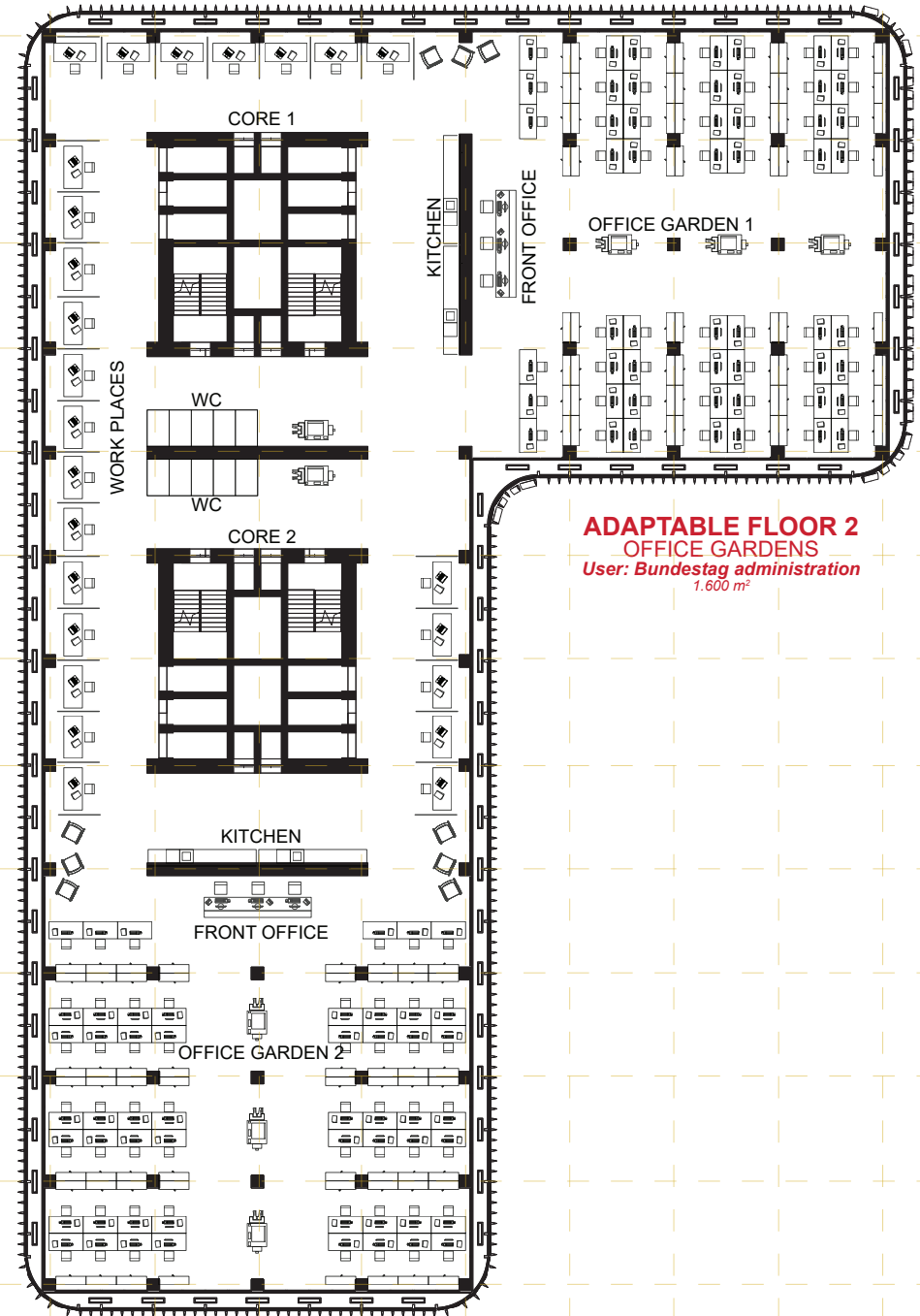
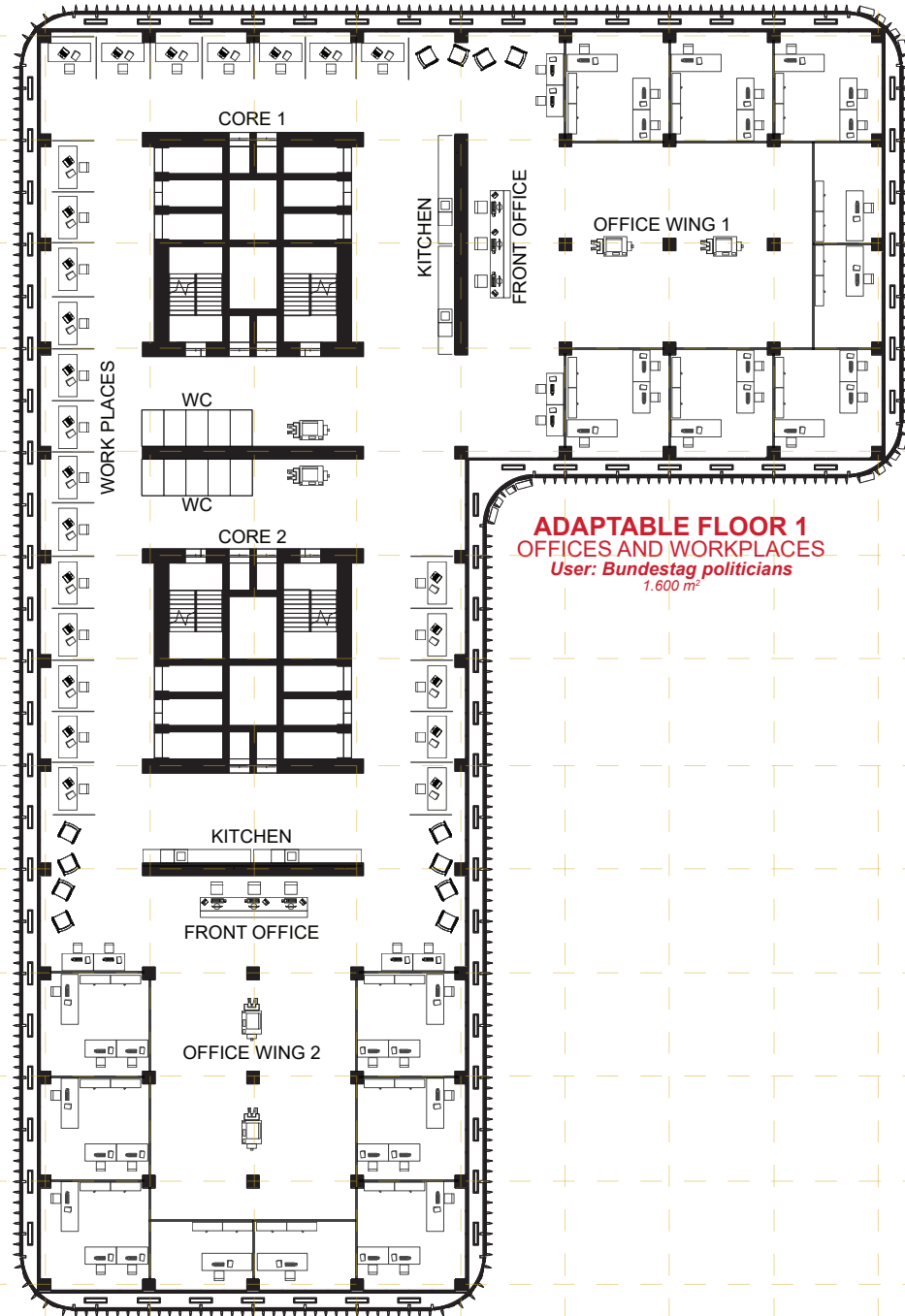
ADAPTABLE FOR NATIONAL AND PUBLIC



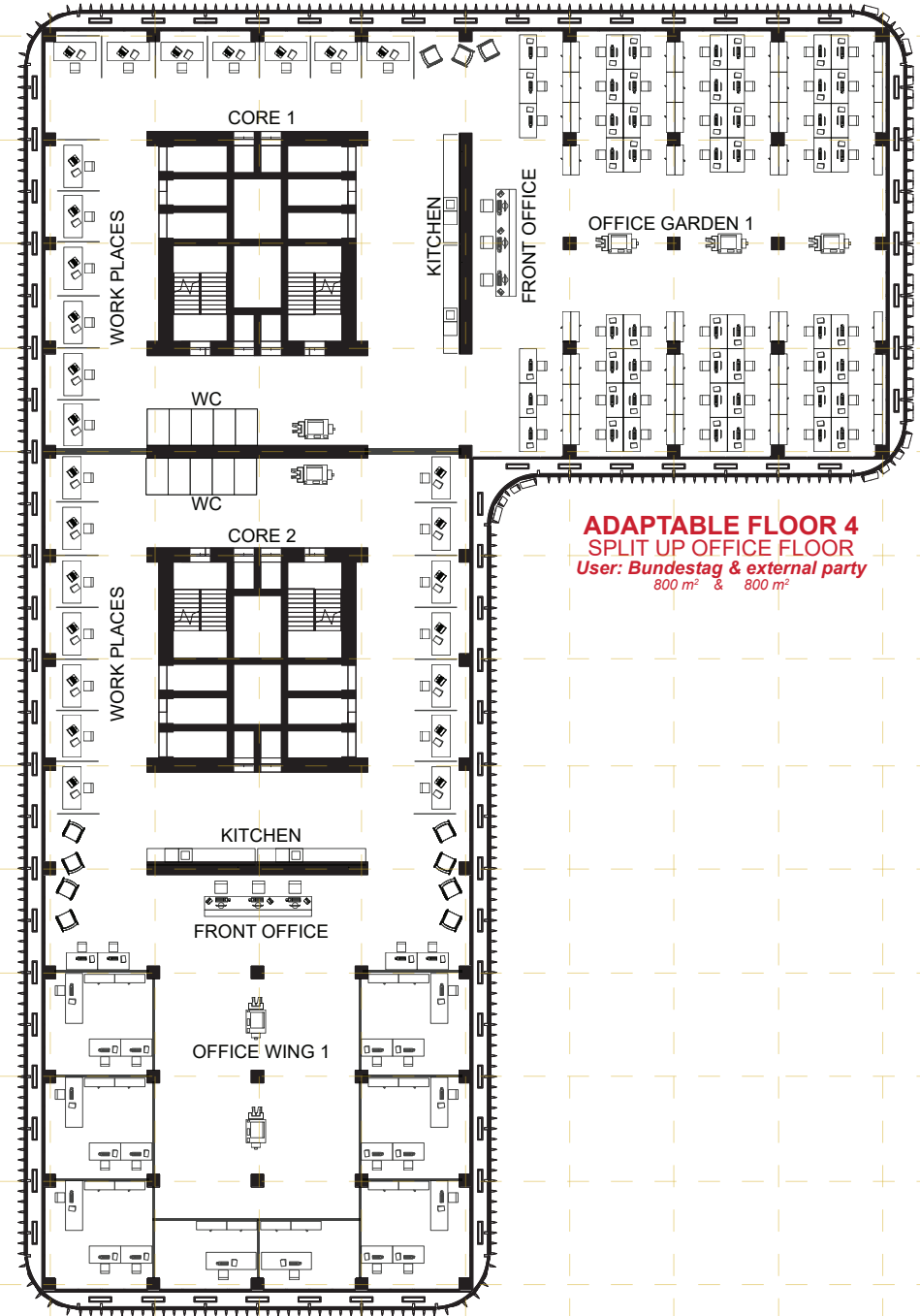
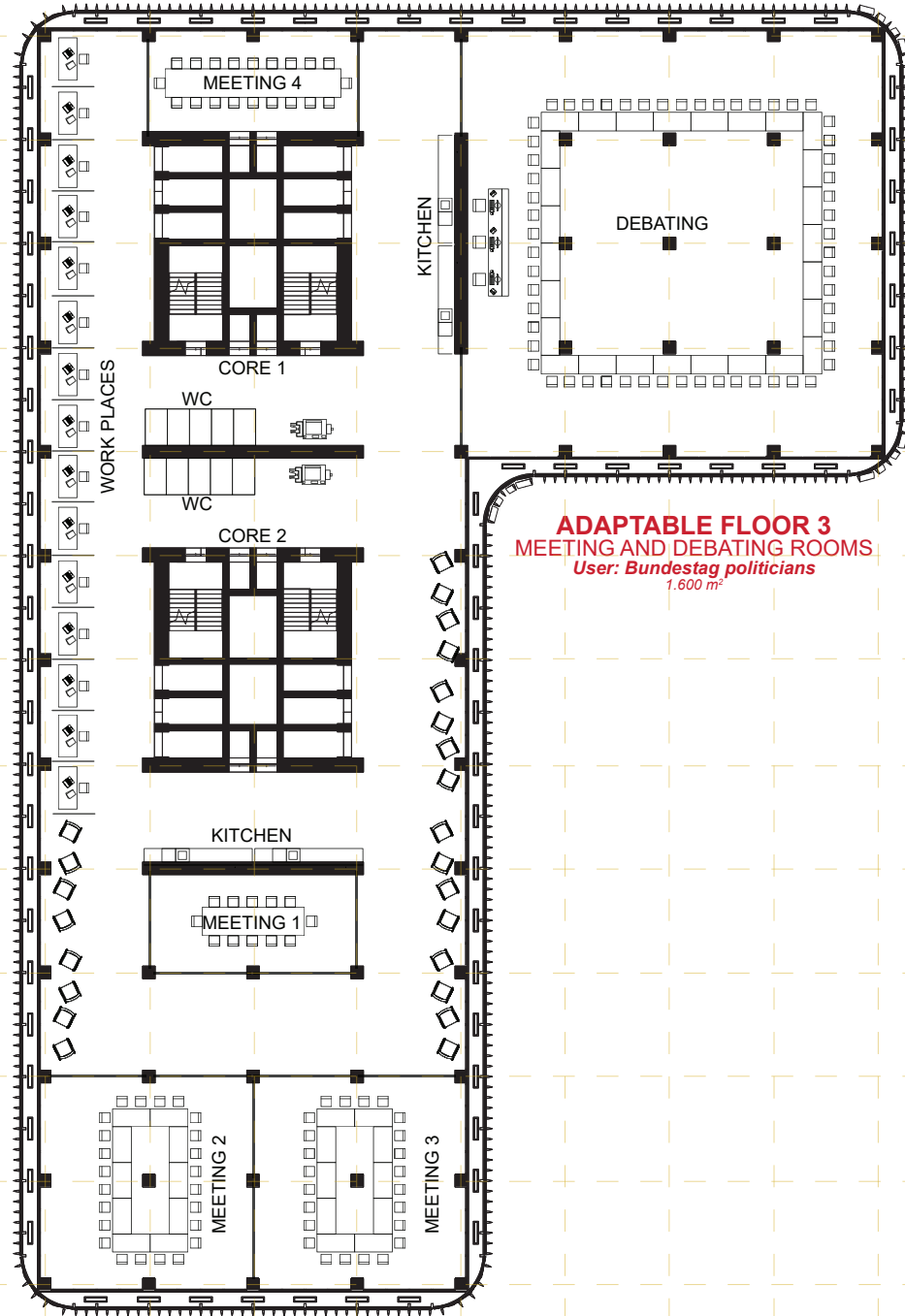
**DEUTSCHE
NATIONAL
BIBLIOTHEK**

GOVERNMENT OR PUBLIC
ORGANISATIONS CAN USE THE
ADAPTABLE FREE SPACE WITHOUT ANY
PAYMENT

Implementation

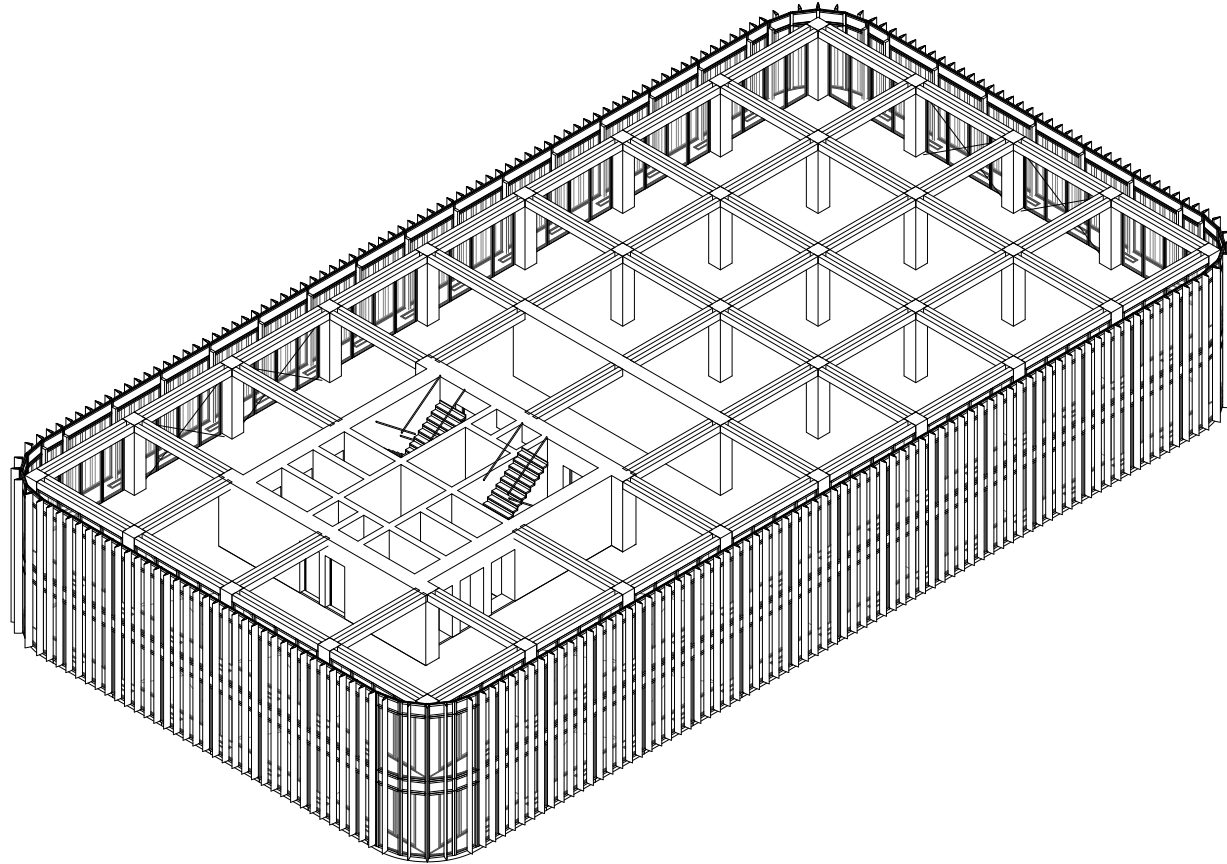


Implementation



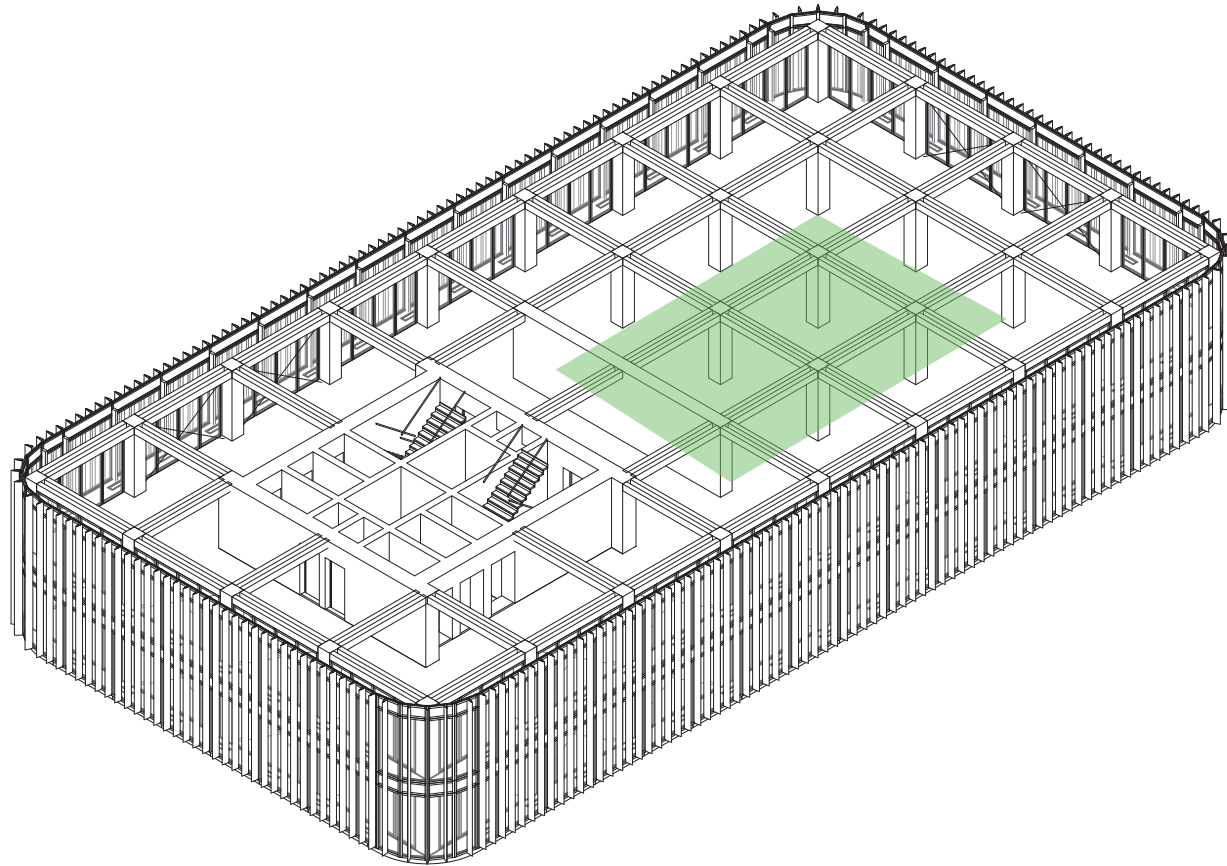
Implementation

ADAPTABILITY



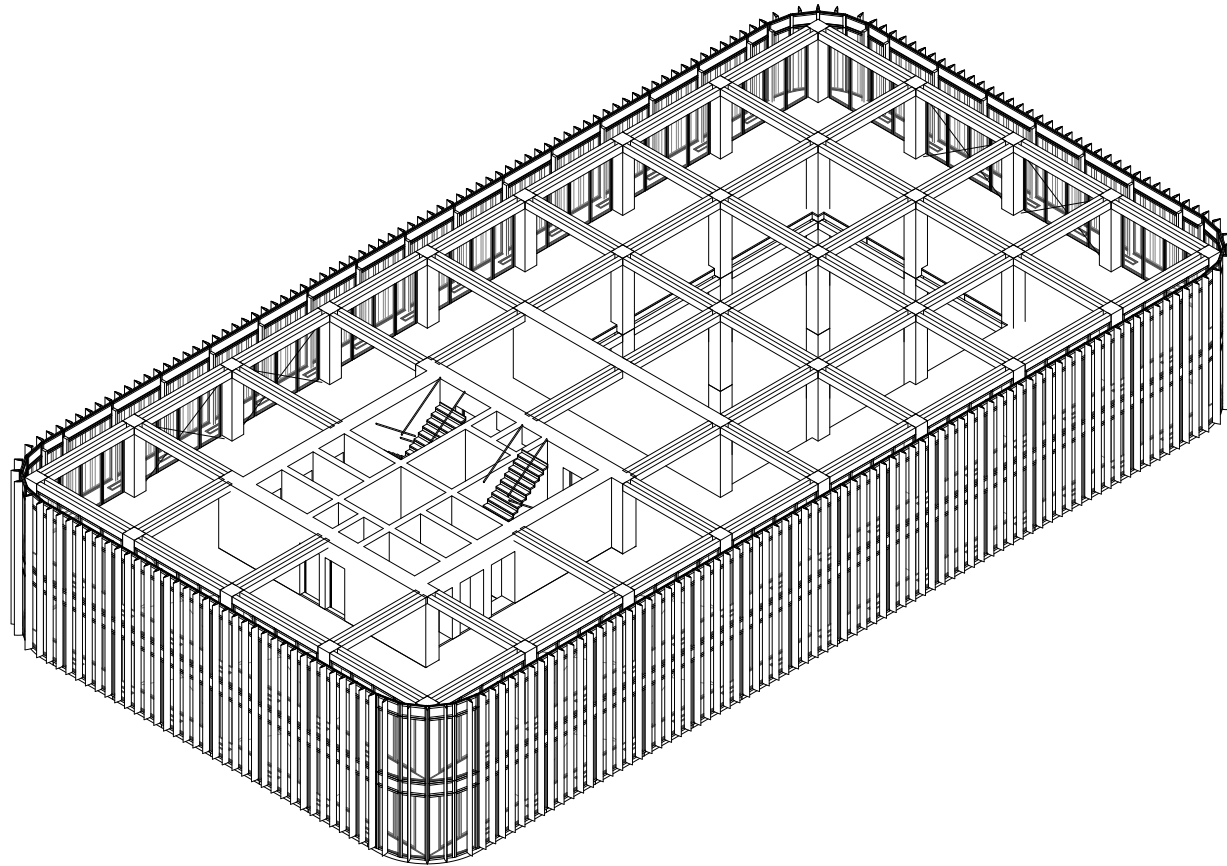
Implementation

ADAPTABILITY



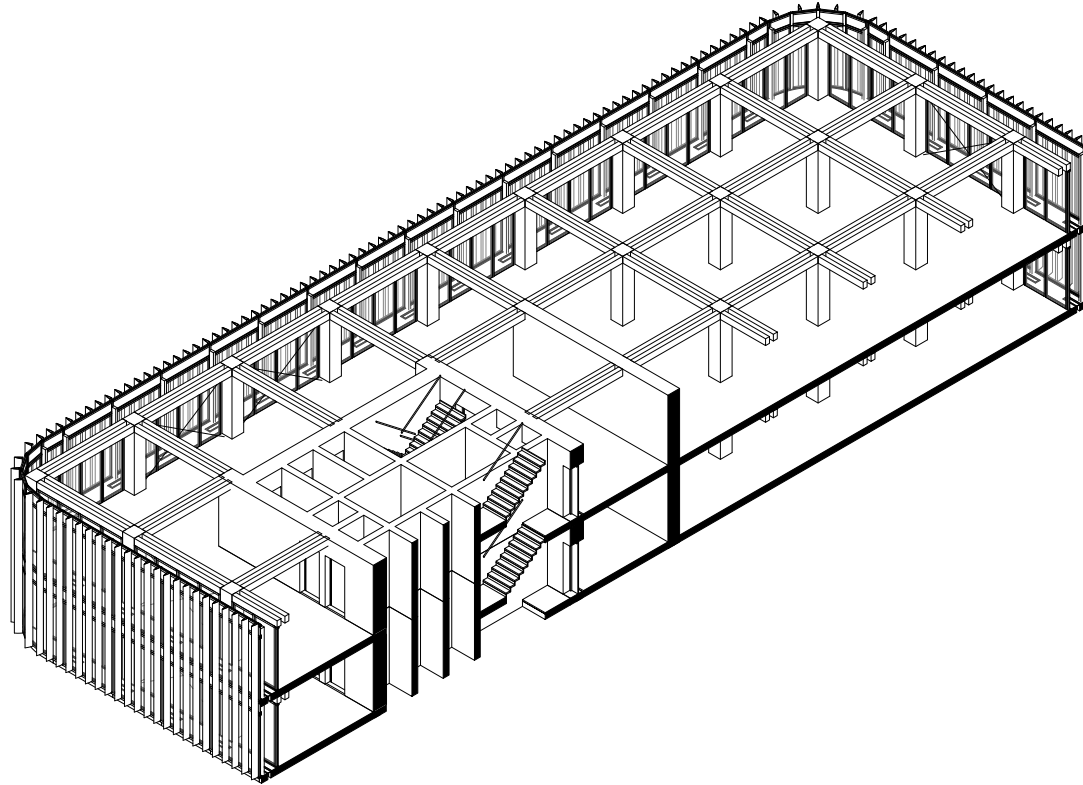
Implementation

ADAPTABILITY



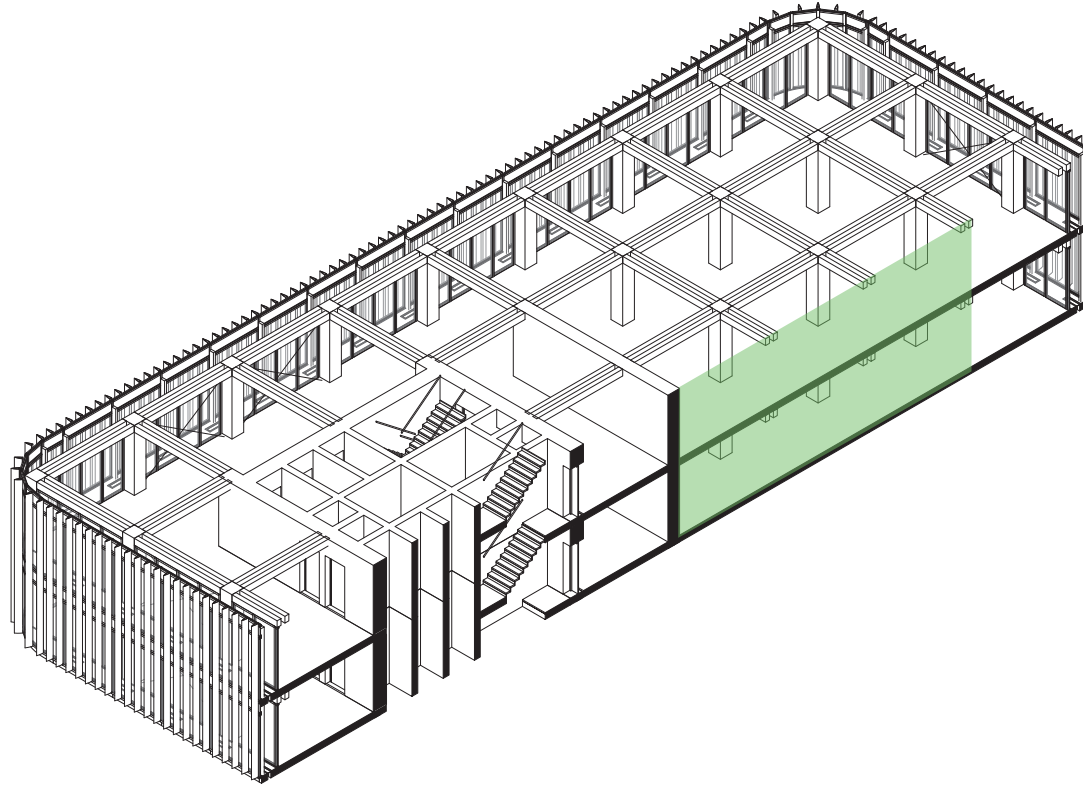
Implementation

ADAPTABILITY



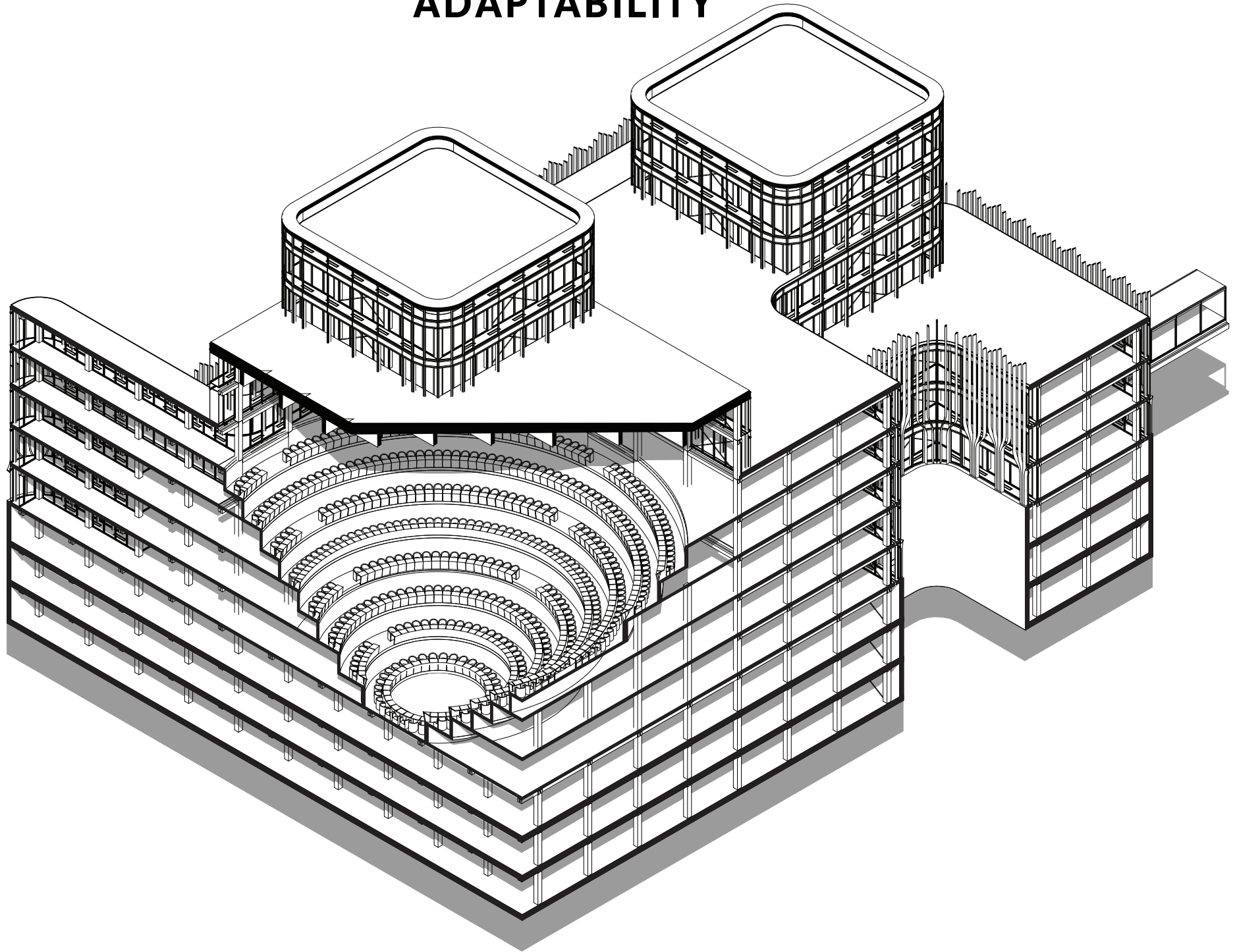
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ADAPTABILITY

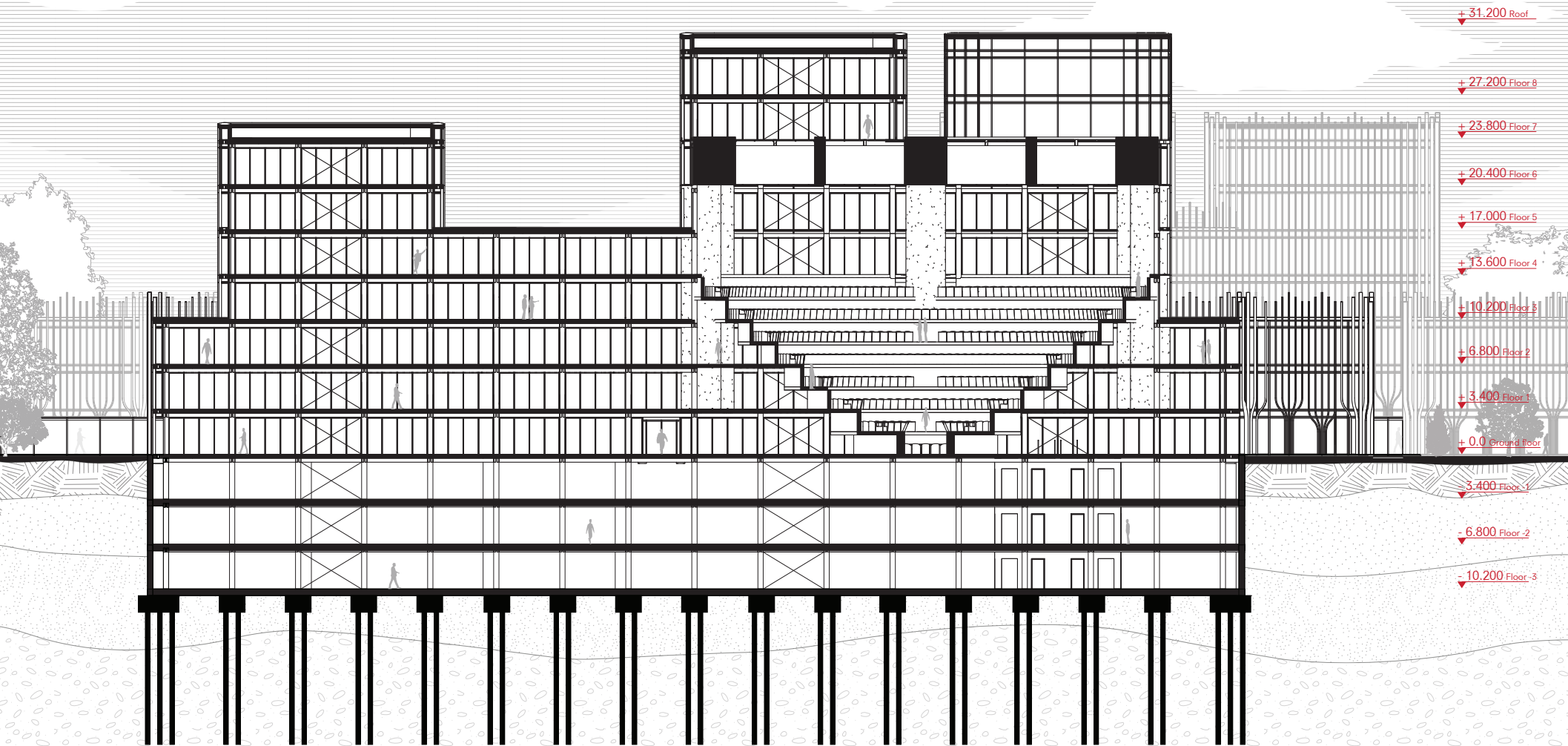


Implementation

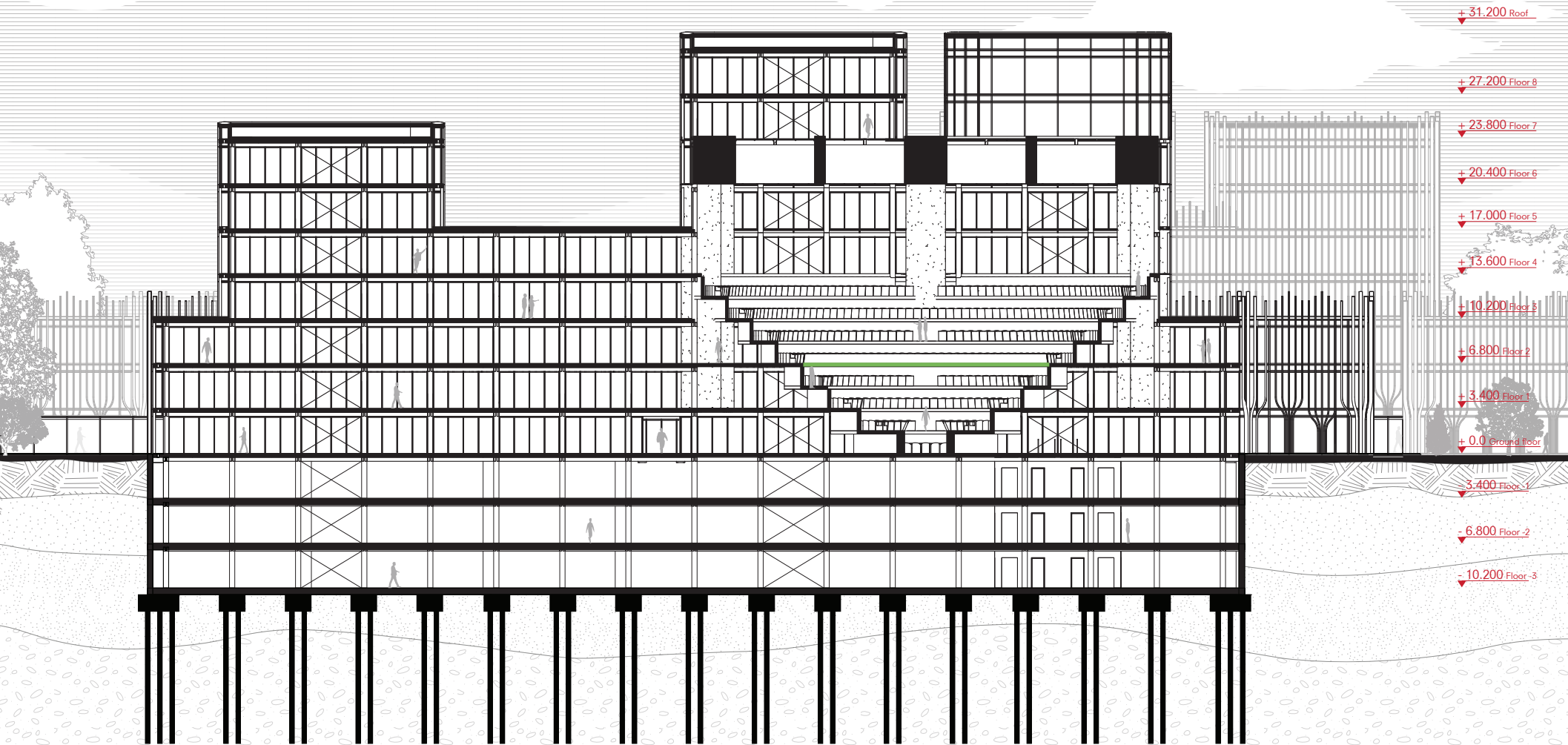
ADAPTABILITY



Implementation **ADAPTABILITY**



Implementation **ADAPTABILITY**



IMPLEMENTATION

01

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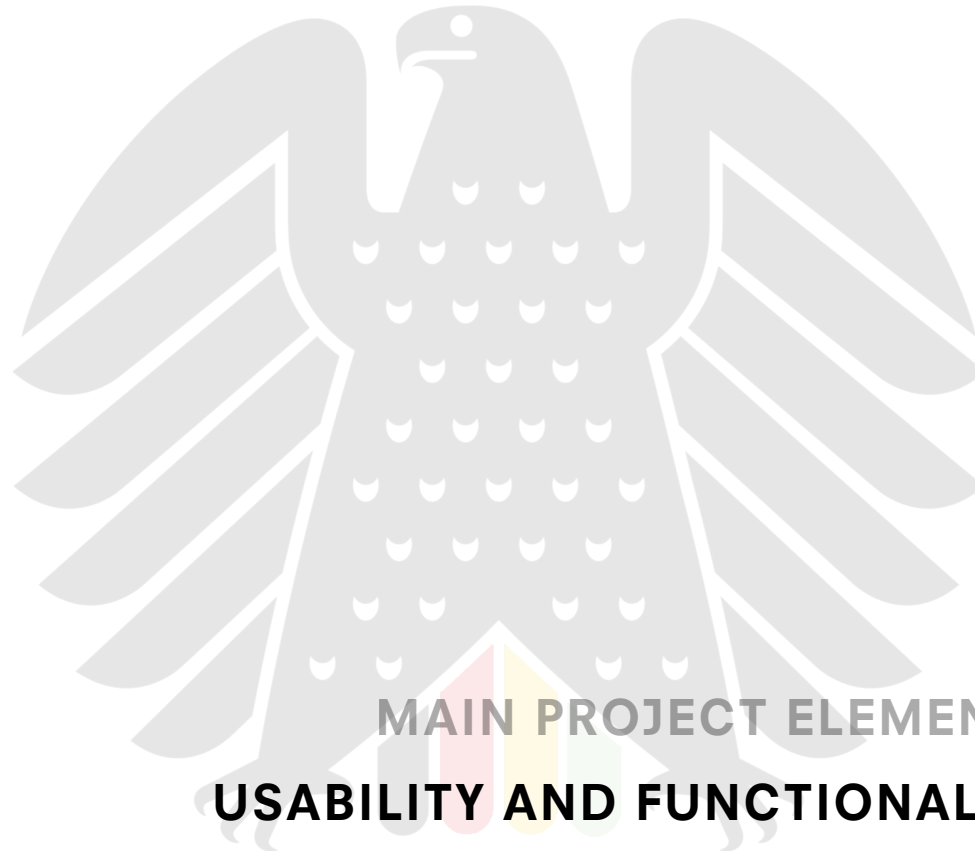
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MAIN PROJECT ELEMENTS

USABILITY AND FUNCTIONALITY

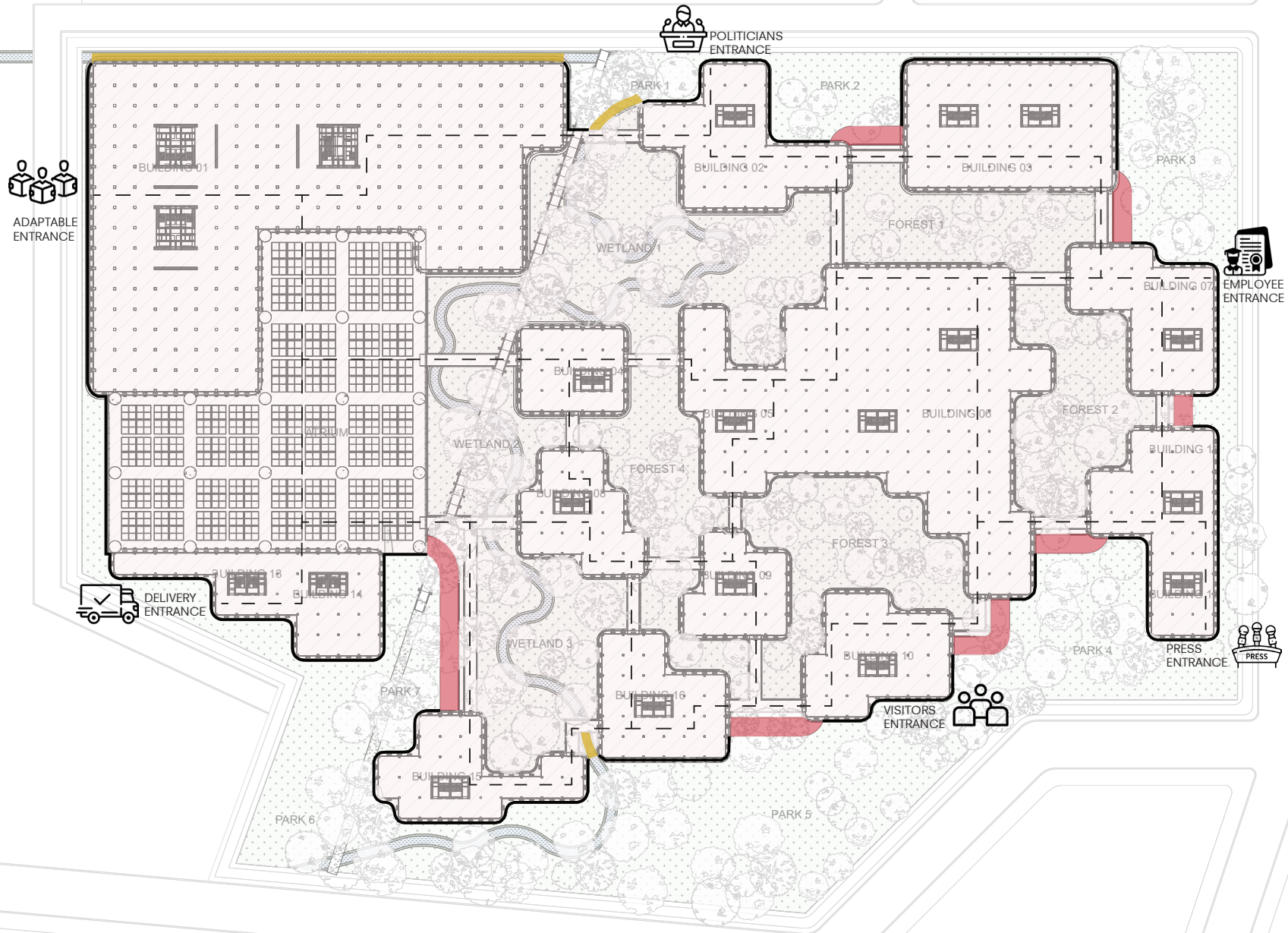
MATERIAL AND EXPERIENCE

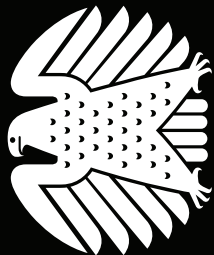
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USABILITY AND FUNCTIONALITY

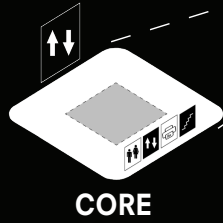




Ing. J.C.L. Leroy Göres

VISITOR

MAP



USABILITY AND FUNCTIONALITY

36-49

26-35

15-26

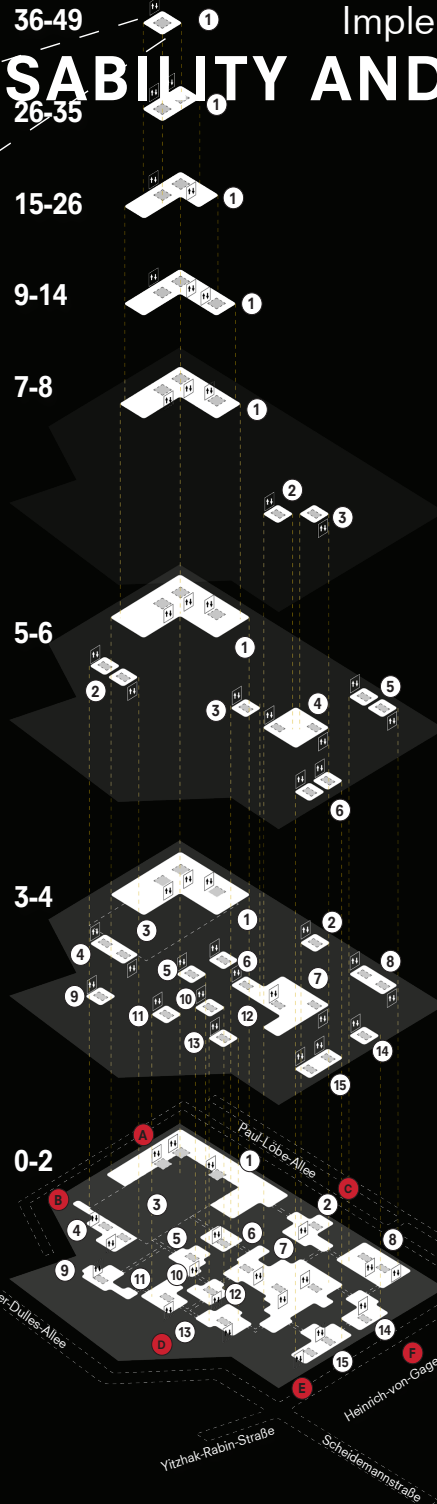
9-14

7-8

5-6

3-4

0-2



Implementation

36-49

26-35

15-26

9-14

7-8

5-6

3-4

0-2

1. Adaptable office space

1. Adaptable office space

1. Adaptable office space

1. Adaptable office space

1. Adaptable office space

1. Adaptable office space

1. Adaptable office space

2. Utility

3. Canteen 2

4. Plenary Hall

5. Workspaces

6. Press

1. Adaptable office space

2. Lobby area

3. Atrium

4. Utility building

5. Archive

6. Canteen 1

7. Plenary Hall

8. Workspaces

9. Security building

10. Library

11. Reading rooms

12. Canteen 2

13. Visitor center

14. Workspaces

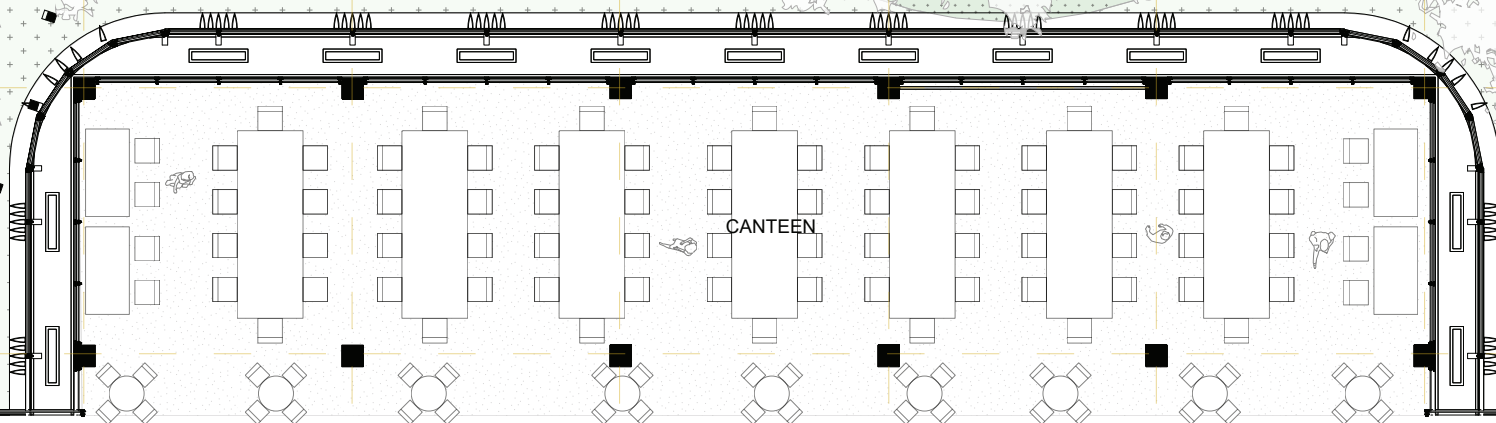
15. Press area



Implementation

USABILITY AND FUNCTIONALITY

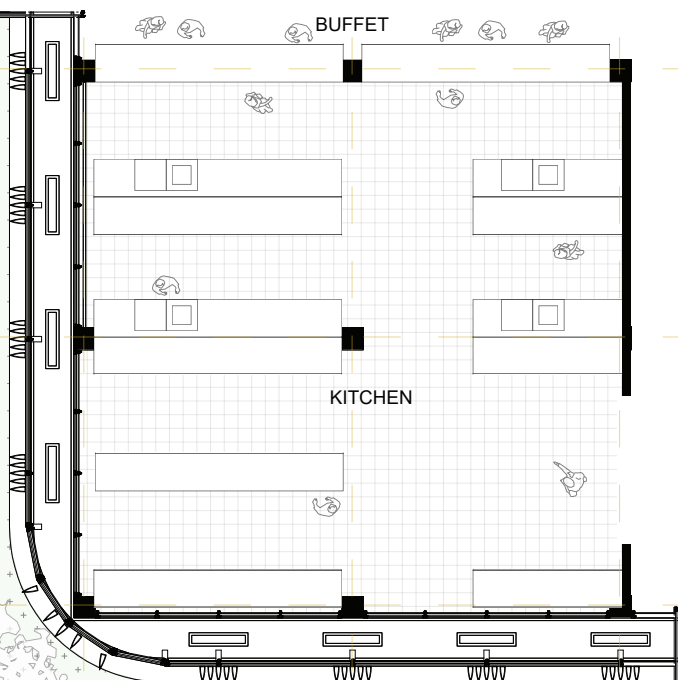
WETLAND 2
ELBE
Giving back to nature.



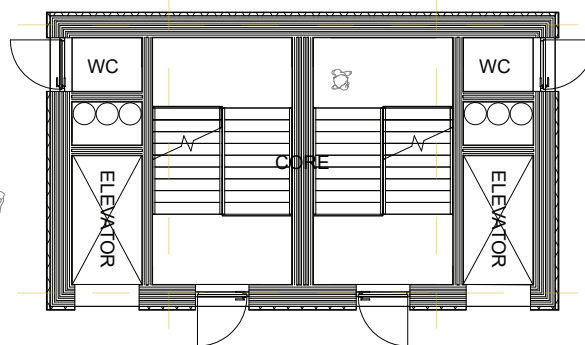
TOWARDS ATRIUM

BUILDING 04
LUDWIG-ERHARD-HAUS
Canteen & Kitchen 1
1.980 m²

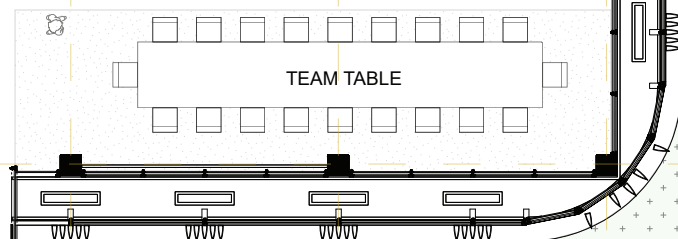
TOWARDS CANTEEN 2



WETLAND 2
ELBE
Giving back to nature.



TOWARDS
ARCHIVE



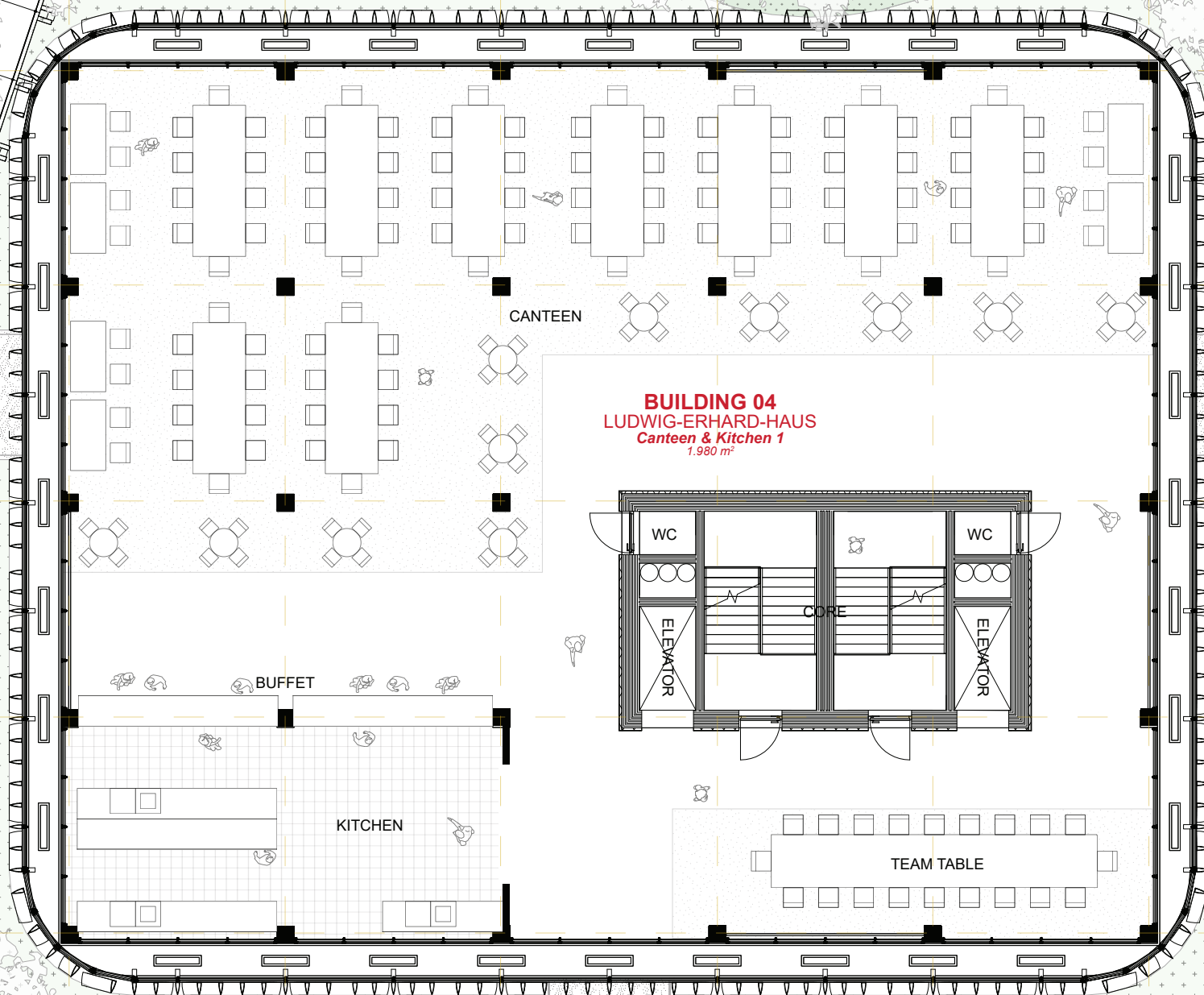
FOREST 4
WALD DES WESTEN
4 regions of Germany

Implementation

USABILITY AND FUNCTIONALITY

WETLAND 2
ELBE
Giving back to nature.

WETLAND 2
ELBE
Giving back to nature.



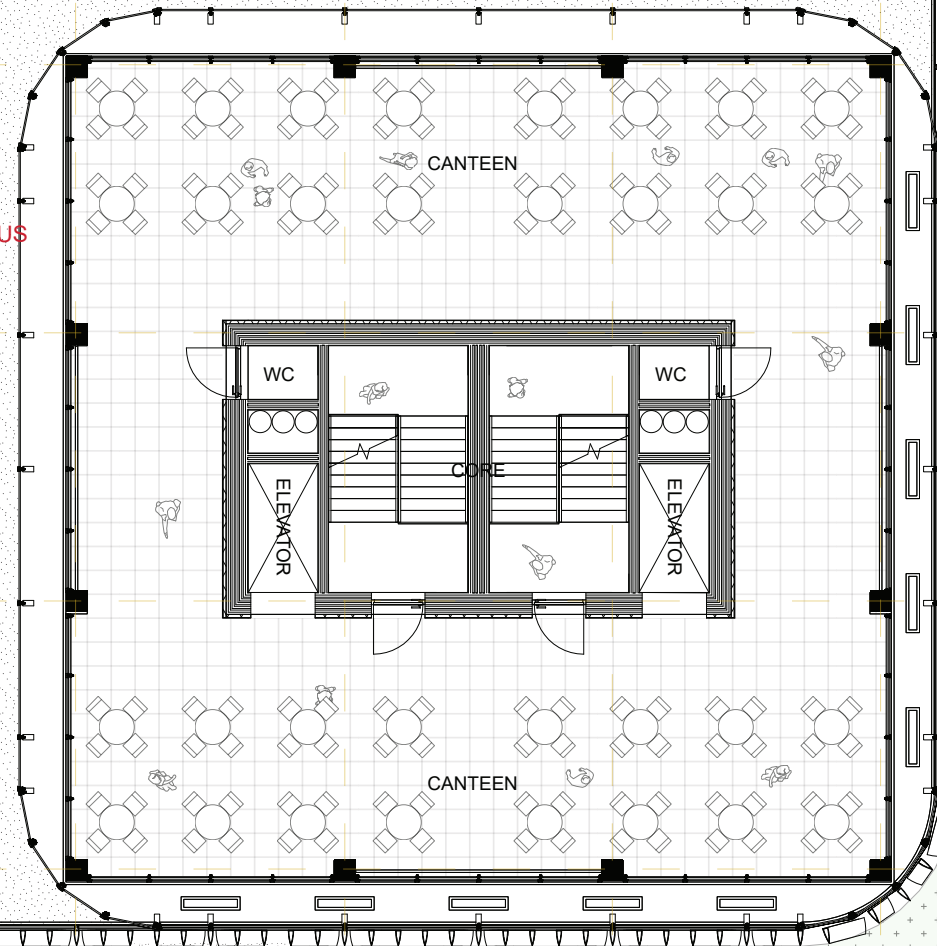
FOREST 4
WALD DES WESTEN
4 regions of Germany

Implementation

USABILITY AND FUNCTIONALITY

WALD DES WESTEN
Giving back to nature

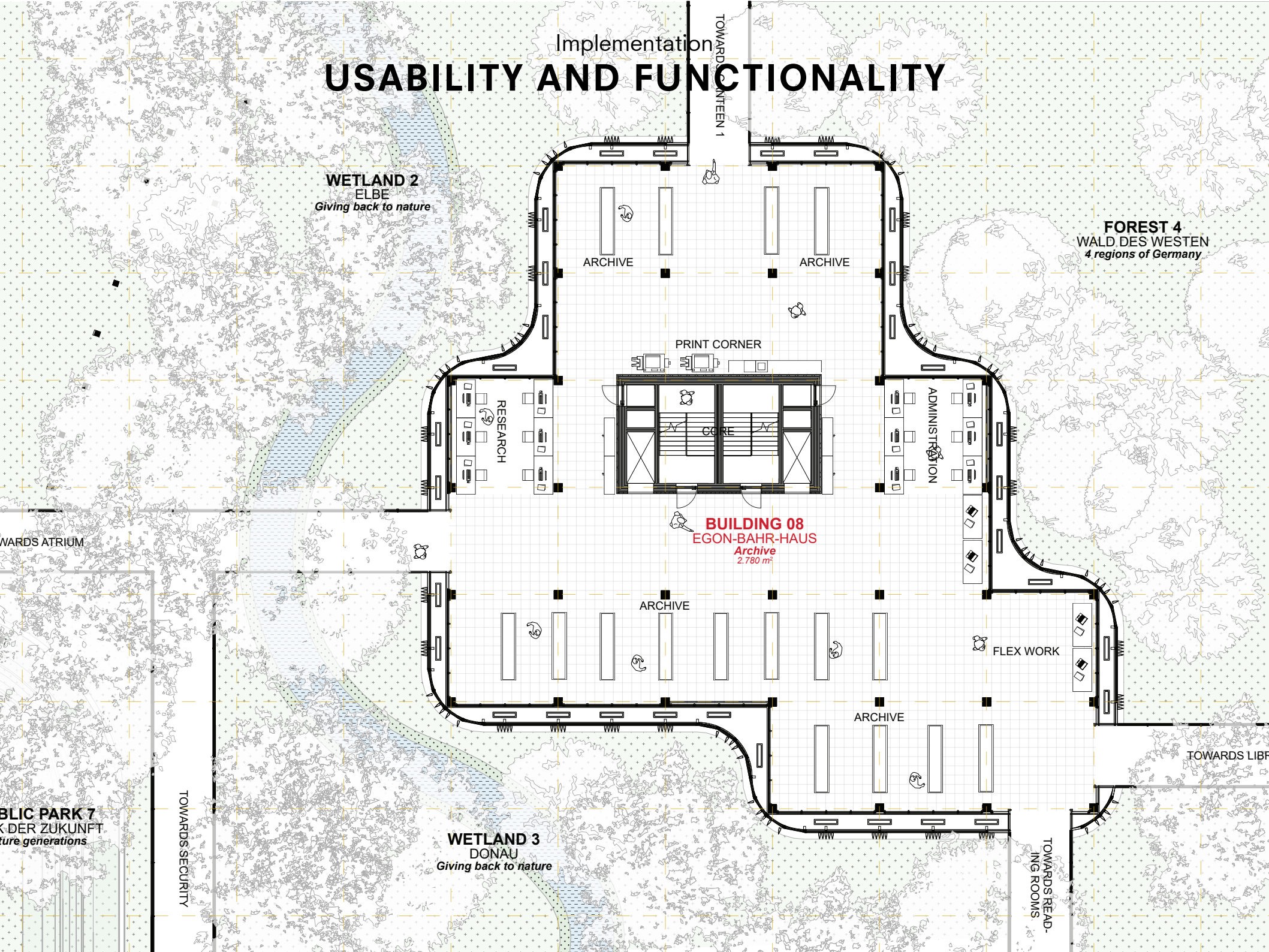
BUILDING 04
LUDWIG-ERHARD-HAUS
Canteen & Kitchen 1
1.980 m²



WETLAND 2
ELBE
Giving back to nature.

FOREST 4
WALD DES WESTEN
4 regions of Germany

USABILITY AND FUNCTIONALITY

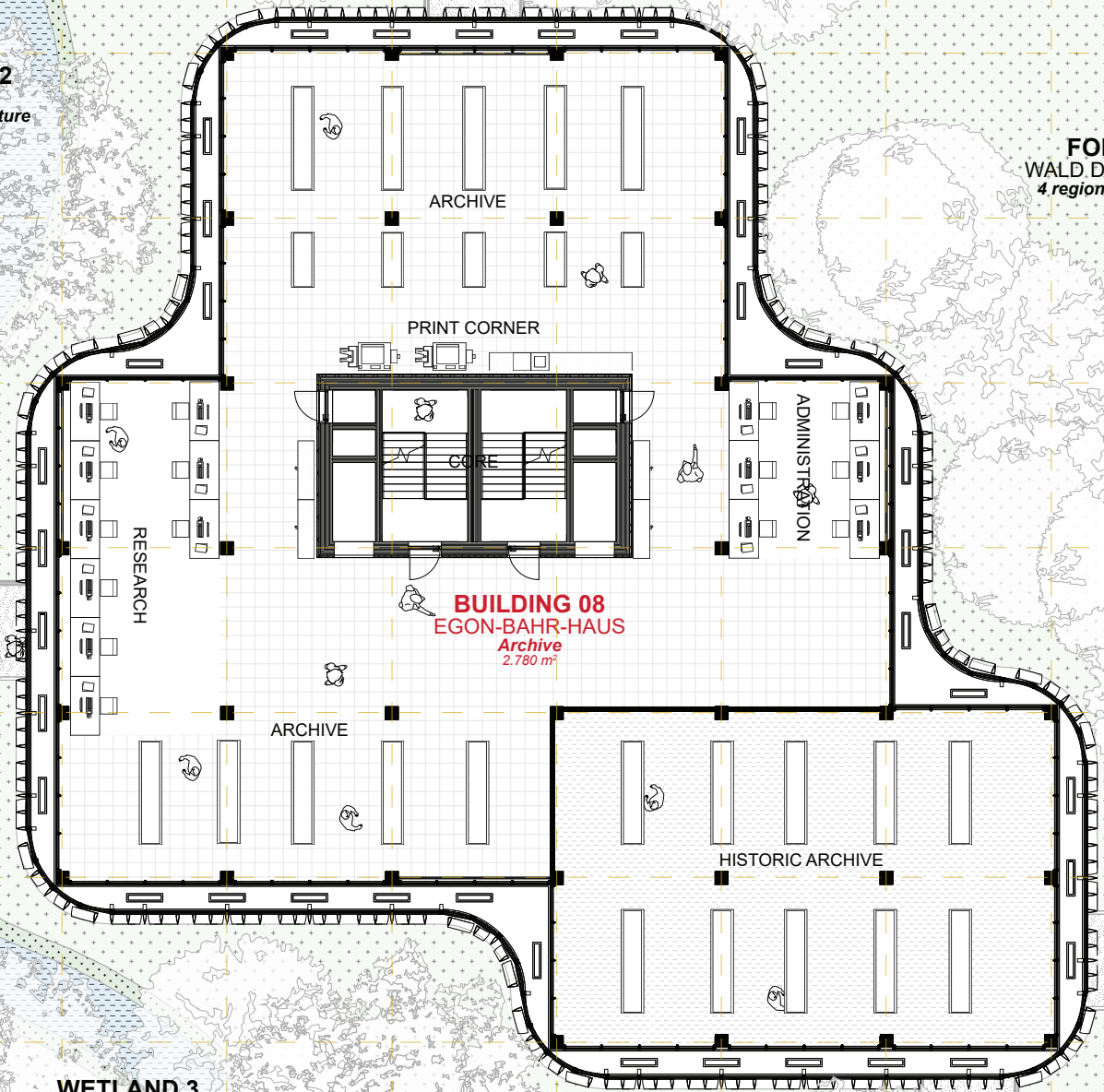


Implementation

USABILITY AND FUNCTIONALITY

WETLAND 2
ELBE
Giving back to nature

FOREST 4
WALD DES WESTEN
4 regions of Germany



PUBLIC PARK 7
KUNST DER ZUKUNFT
Future generations

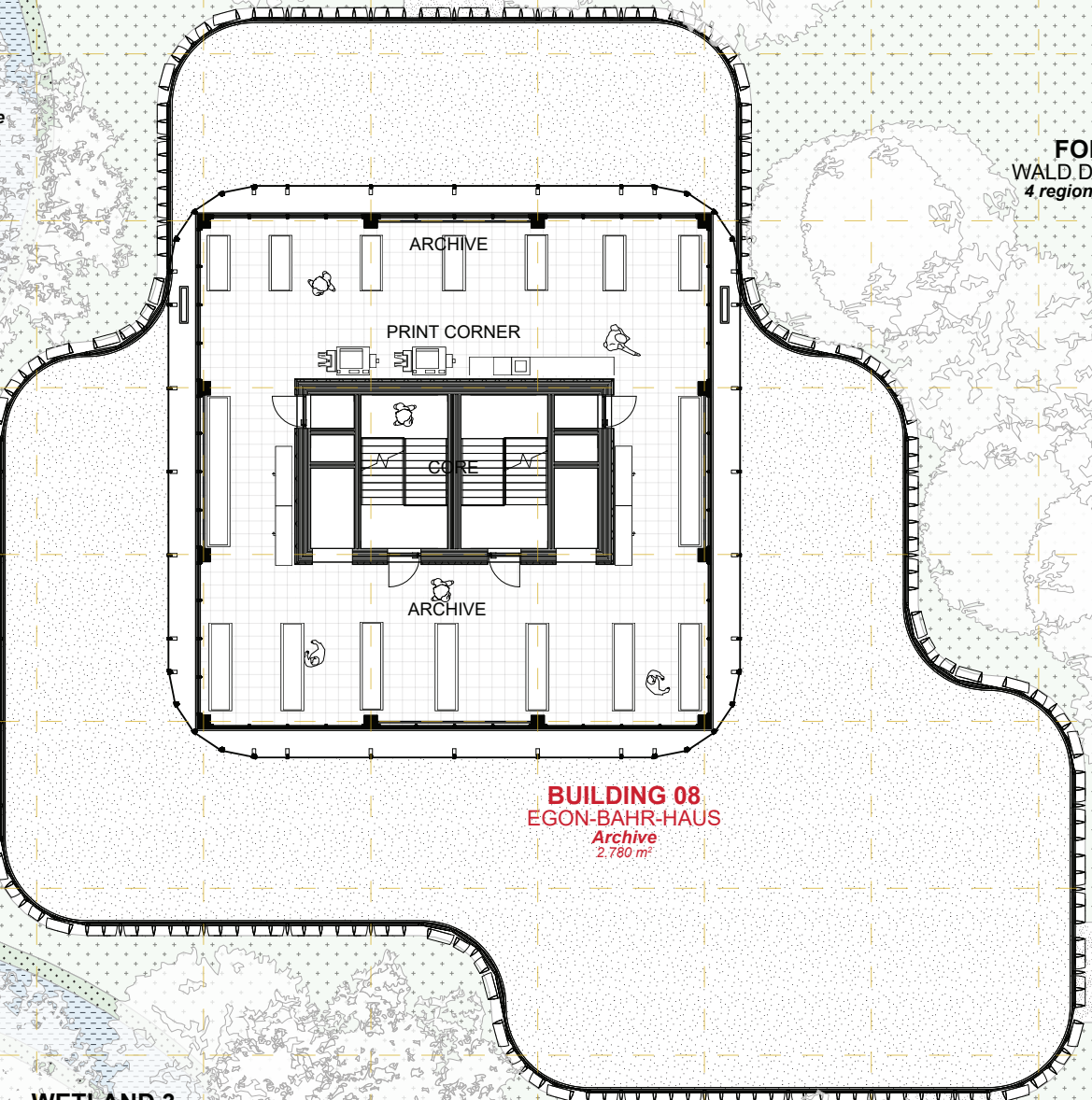
WETLAND 3
DONAU
Giving back to nature

Implementation

USABILITY AND FUNCTIONALITY

WETLAND 2
ELBE
Giving back to nature

FOREST 4
WALD DES WESTEN
4 regions of Germany



BUILDING 08
EGON-BAHR-HAUS
Archive
2.780 m²

WETLAND 3
DONAU
Giving back to nature

PUBLIC PARK 7
KINDER ZUKUNFT
Future generations

IMPLEMENTATION

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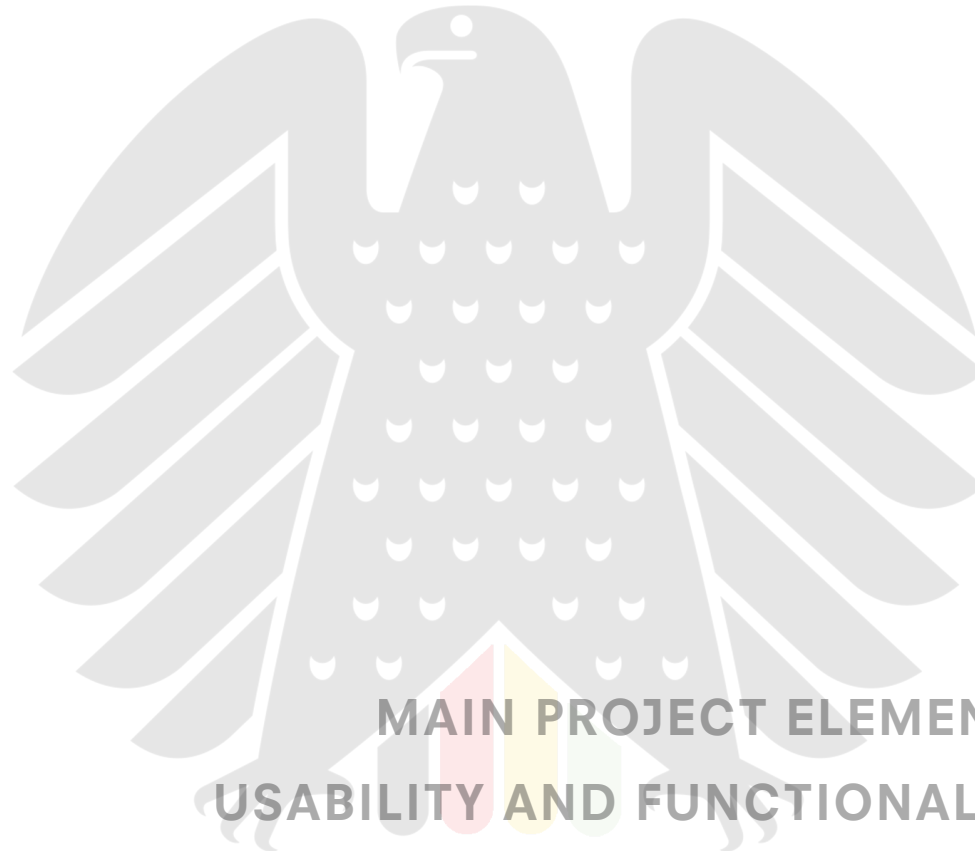
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MAIN PROJECT ELEMENTS

USABILITY AND FUNCTIONALITY

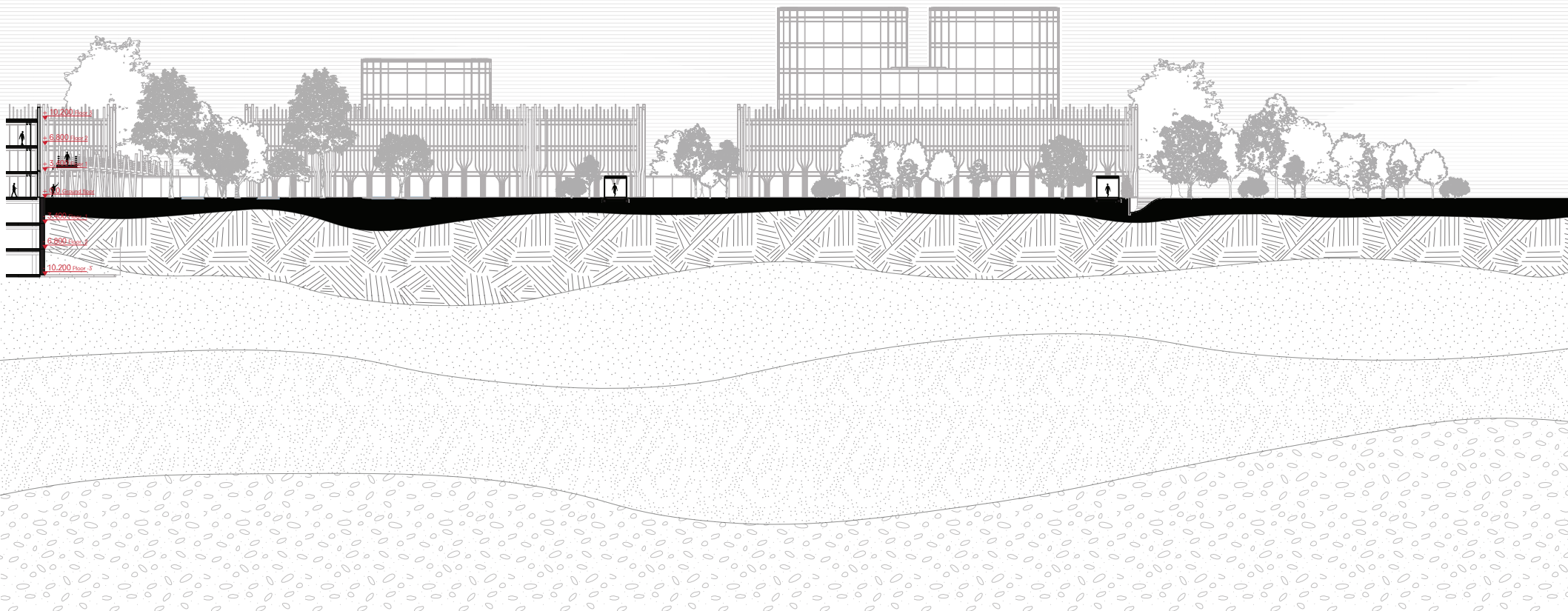
MATERIAL AND EXPERIENCE

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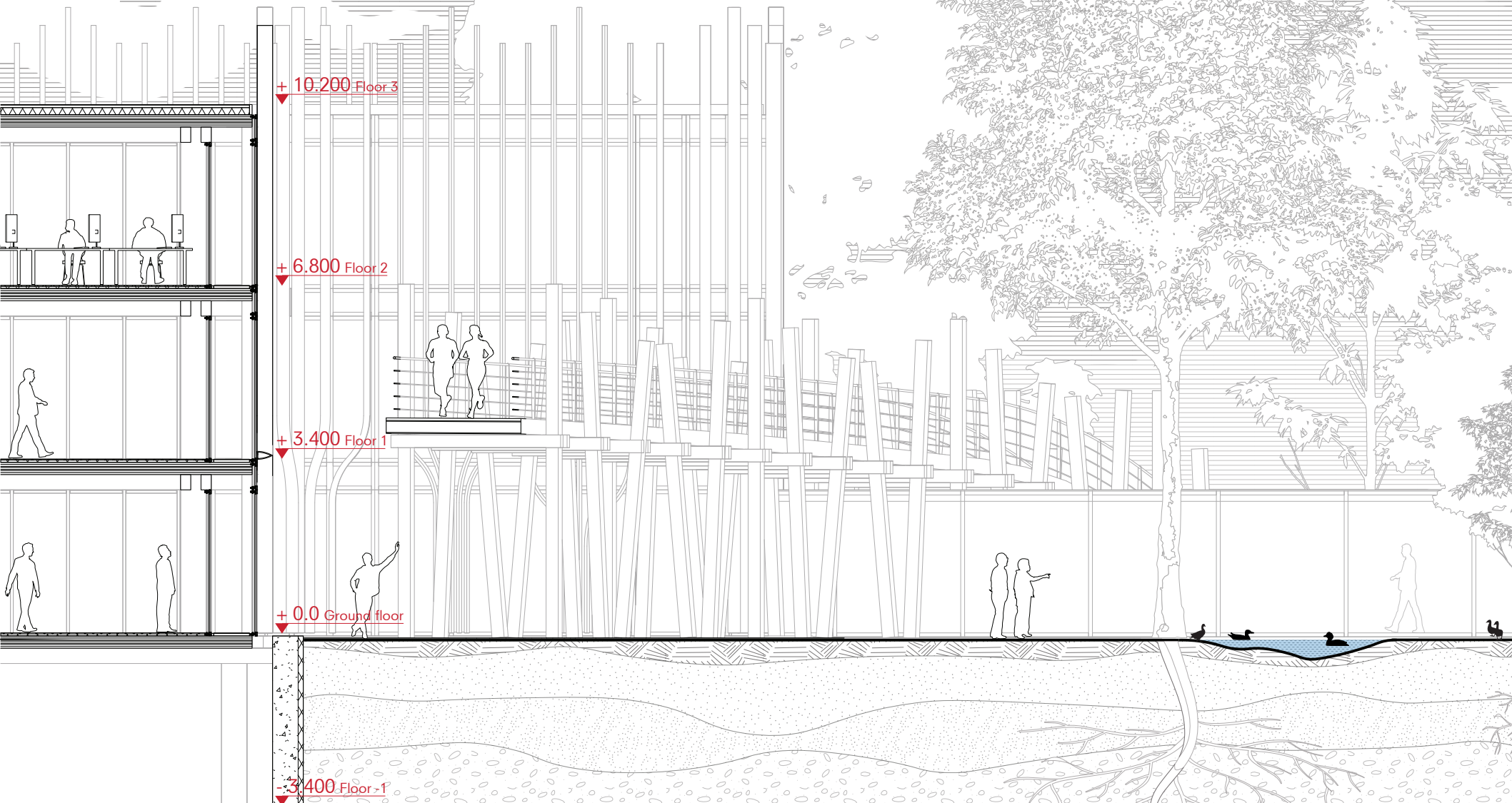
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Implementation **EXPERIENCE**



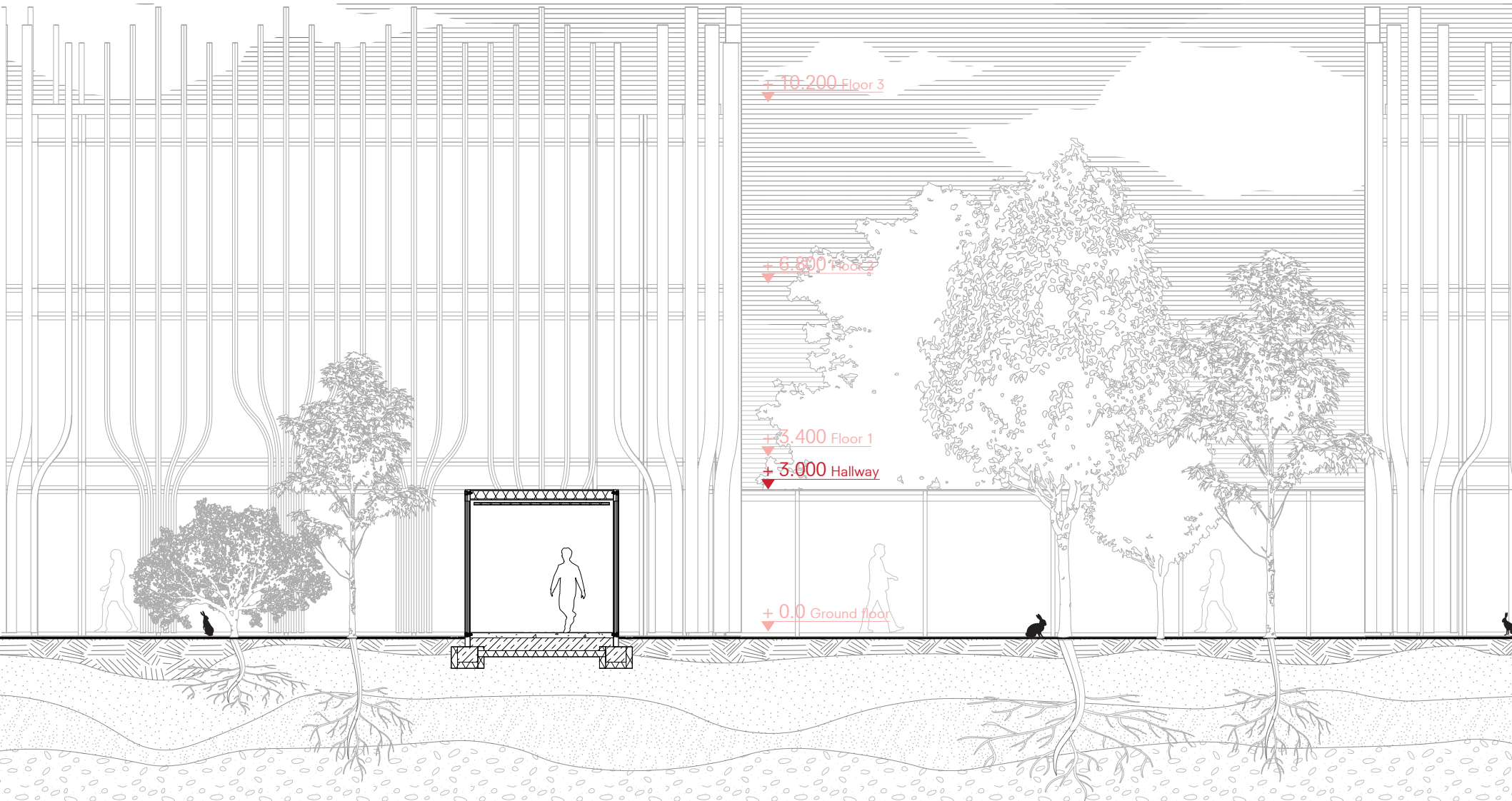
Implementation **EXPERIENCE**



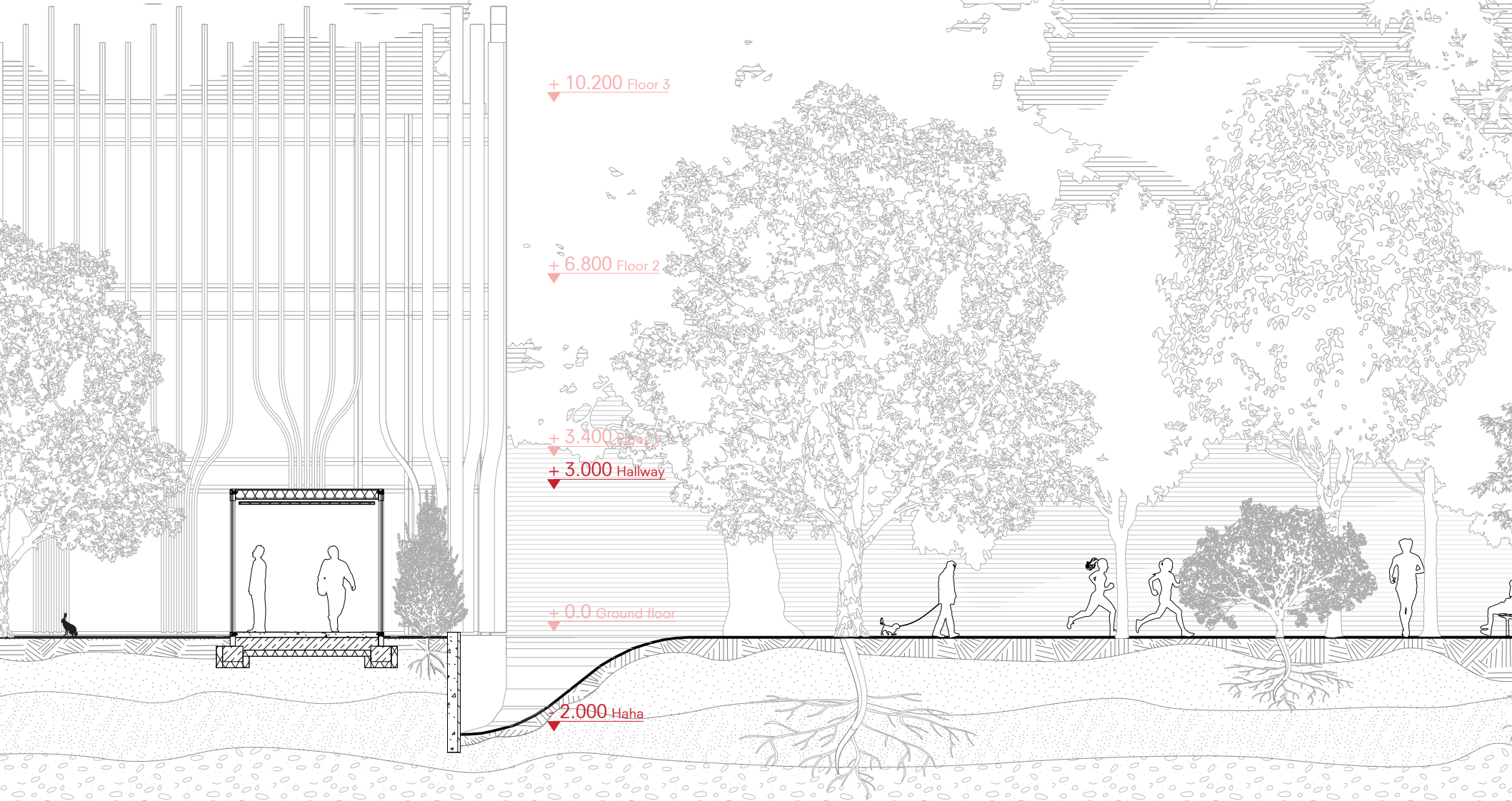
Implementation **EXPERIENCE**



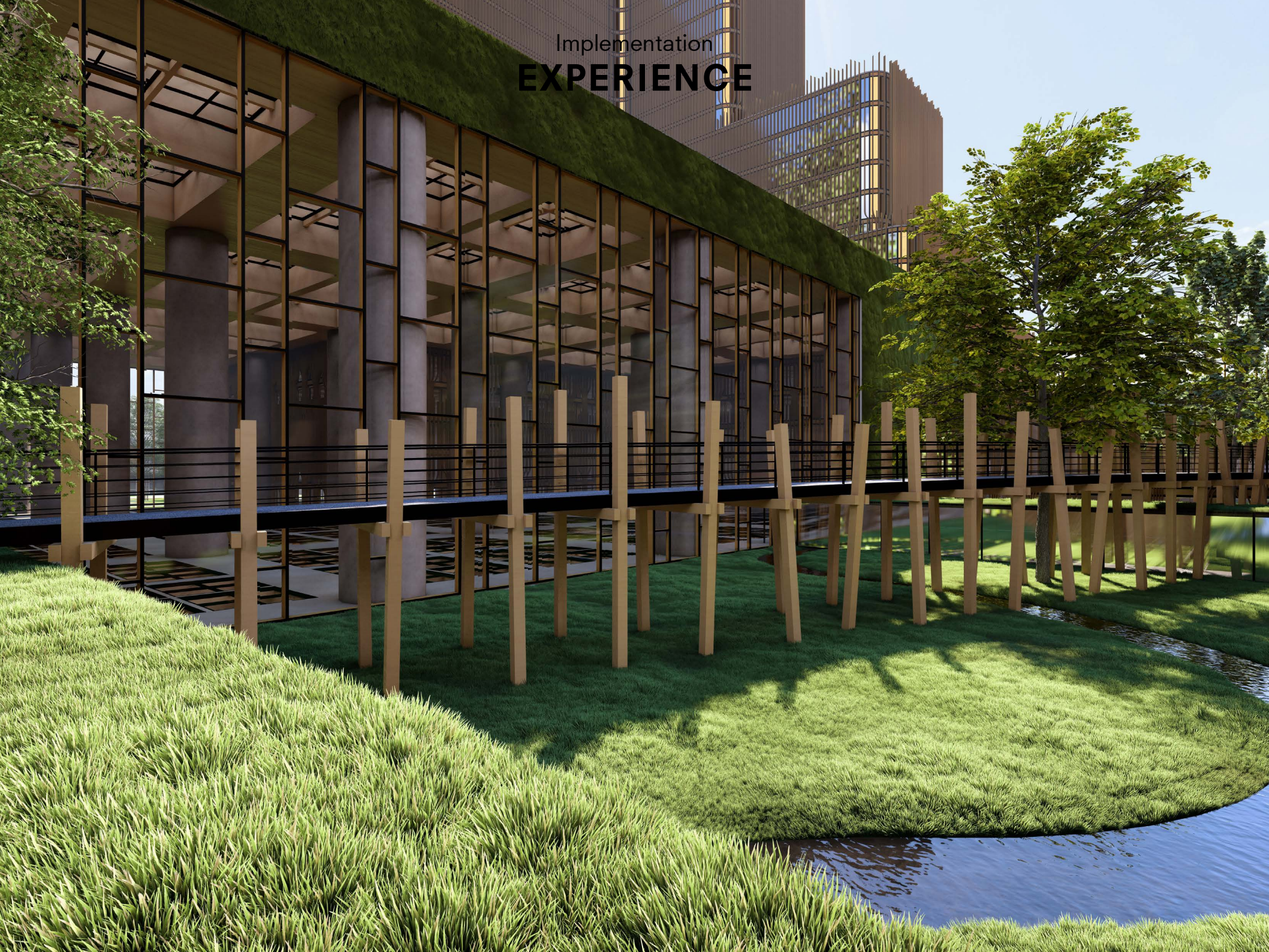
Implementation **EXPERIENCE**



Implementation EXPERIENCE



Implementation
EXPERIENCE



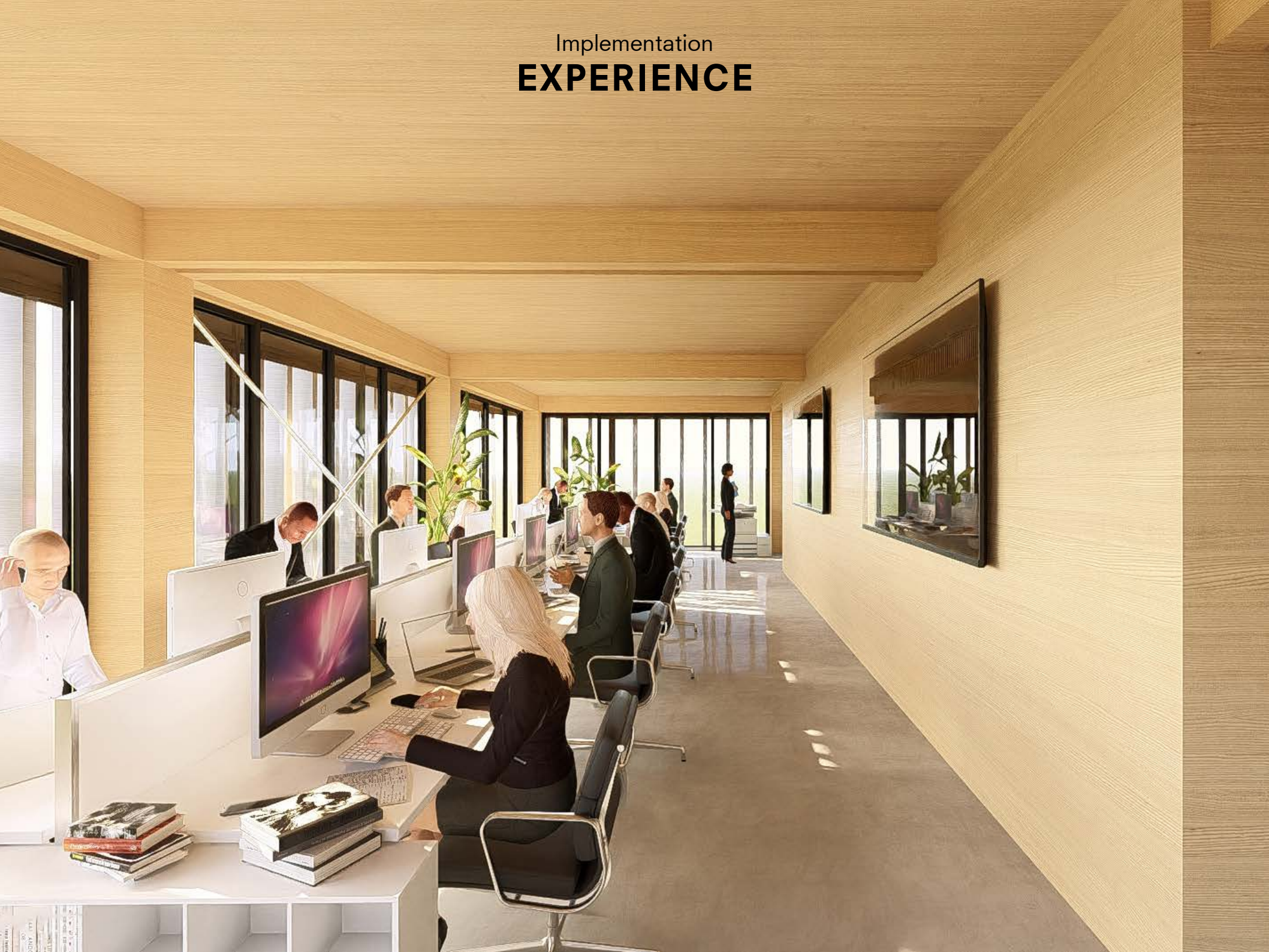
Implementation
EXPERIENCE



Implementation
EXPERIENCE



Implementation
EXPERIENCE



DEVELOPMENT



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DEVELOPMENT

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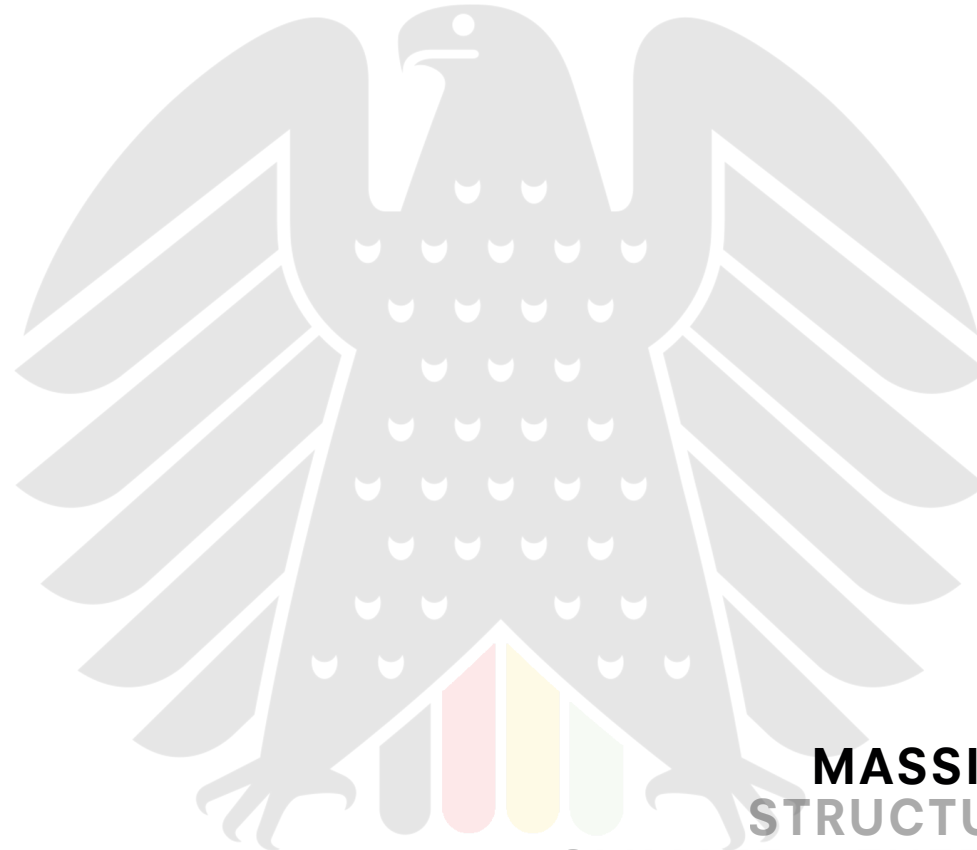
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MASSING
STRUCTURE
CLIMATE & ENERGY
DETAILING
MATERIAL

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Development
MASSING

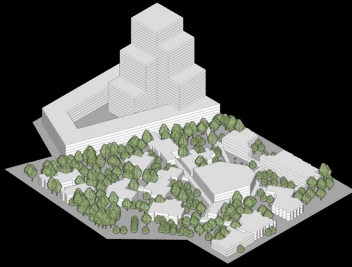
CLIENT

PROGRAM

SITE

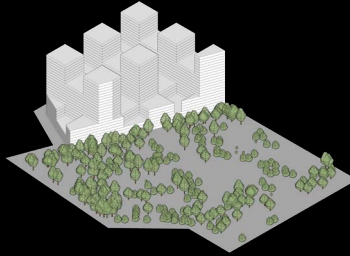
Development
MASSING

CLIENT



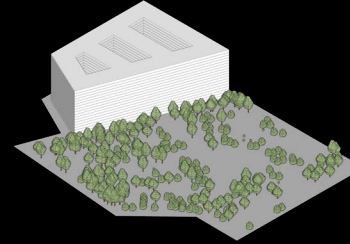
SYMBOLIC: 16 BUILDINGS
& FORM FOLLOWS TREES

+



AUTHORITY: FORM
SHOULD "SHOW POWER"

+

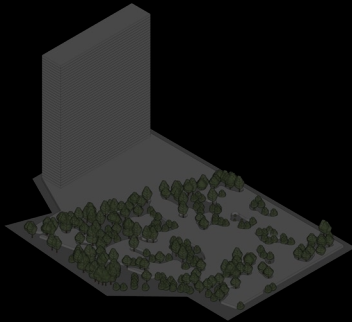


EFFICIENT: GENERIC
COST EFFICIENT FORM

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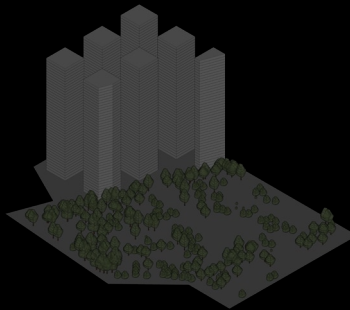
CLIENT: CONCLUSION
MASS FOR CLIENT

PROGRAM



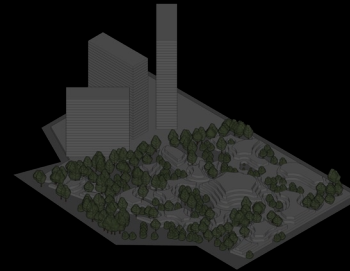
SIMPLE: ALL THE PROGRAM
IN 1 TOWER AND FLOOR

+



GRID: ALL THE PROGRAM
IN 25X25M TOWERS

+

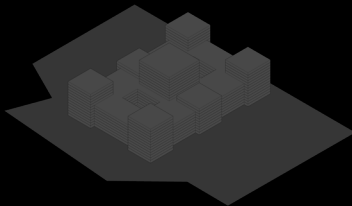


ADAPTABLE: 3 TOWERS
AND BIG GROUND FLOOR

=

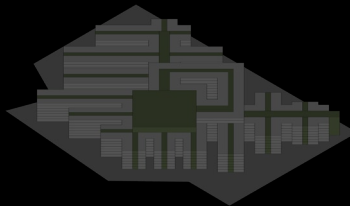
PROGRAM: CONCLUSION
MASS FOR PROGRAM

SITE



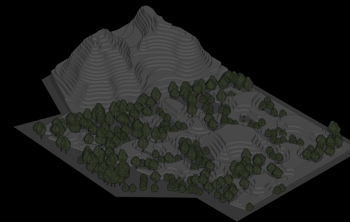
COPY: EXTENTION OF THE
AXIS OF DEMOCRACY

+



FLOW: MASSING FOLLOWS
FLOW AND DAYLIGHT

+



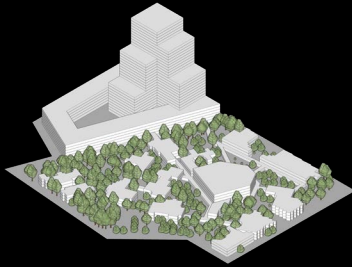
ORGANIC: ORGANIC
FORM FOLLOWS TREES

=

SITE: CONCLUSION
MASS FOR SITE

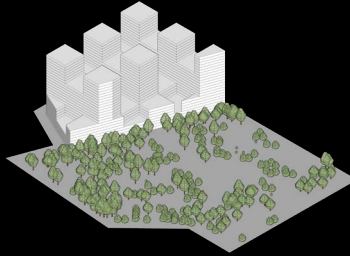
Development
MASSING

CLIENT



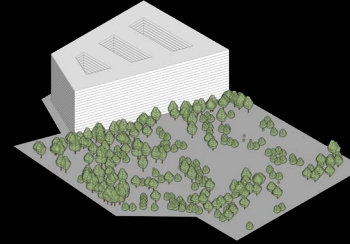
SYMBOLIC: 16 BUILDINGS
& FORM FOLLOWS TREES

+



AUTHORITY: FORM
SHOULD "SHOW POWER"

+

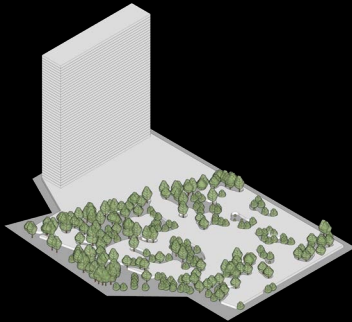


EFFICIENT: GENERIC
COST EFFICIENT FORM

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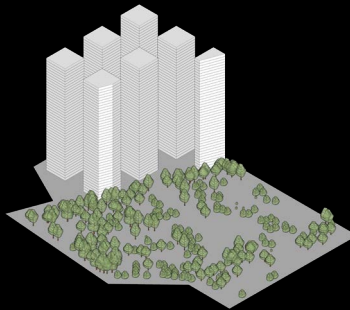
CLIENT: CONCLUSION
MASS FOR CLIENT

PROGRAM



SIMPLE: ALL THE PROGRAM
IN 1 TOWER AND FLOOR

+



GRID: ALL THE PROGRAM
IN 25X25M TOWERS

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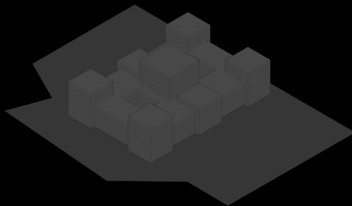


ADAPTABLE: 3 TOWERS
AND BIG GROUND FLOOR

=

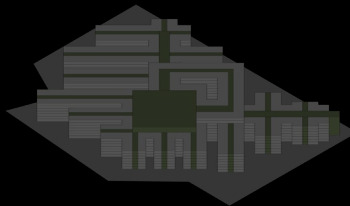
PROGRAM: CONCLUSION
MASS FOR PROGRAM

SITE



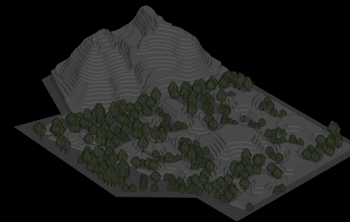
COPY: EXTENTION OF THE
AXIS OF DEMOCRACY

+



FLOW: MASSING FOLLOWS
FLOW AND DAYLIGHT

+



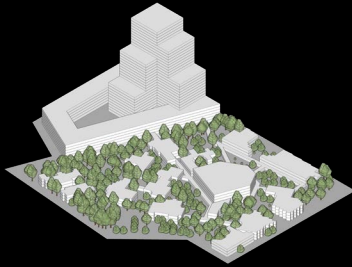
ORGANIC: ORGANIC
FORM FOLLOWS TREES

=

SITE: CONCLUSION
MASS FOR SITE

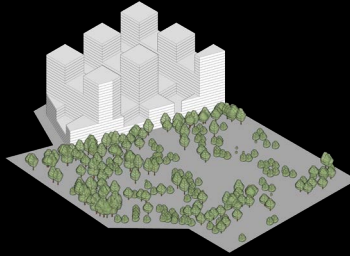
Development
MASSING

CLIENT



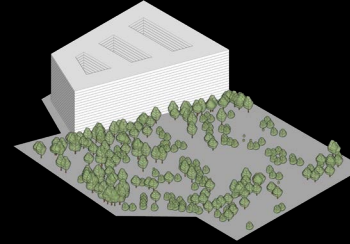
SYMBOLIC: 16 BUILDINGS
& FORM FOLLOWS TREES

+



AUTHORITY: FORM
SHOULD "SHOW POWER"

+

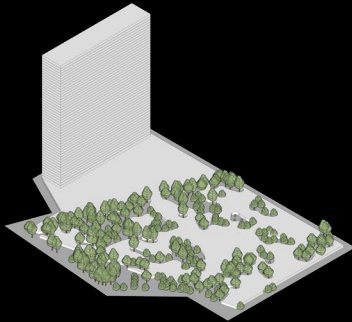


EFFICIENT: GENERIC
COST EFFICIENT FORM

=

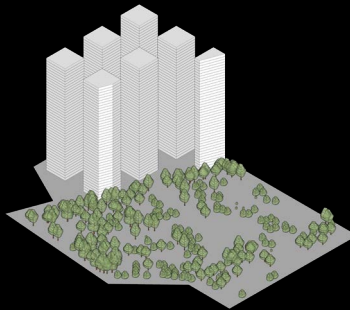
CLIENT: CONCLUSION
MASS FOR CLIENT

PROGRAM



SIMPLE: ALL THE PROGRAM
IN 1 TOWER AND FLOOR

+



GRID: ALL THE PROGRAM
IN 25X25M TOWERS

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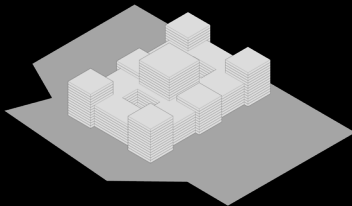


ADAPTABLE: 3 TOWERS
AND BIG GROUND FLOOR

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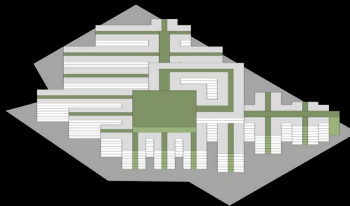
PROGRAM: CONCLUSION
MASS FOR PROGRAM

SITE



COPY: EXTENSION OF THE
AXIS OF DEMOCRACY

+



FLOW: MASSING FOLLOWS
FLOW AND DAYLIGHT

+



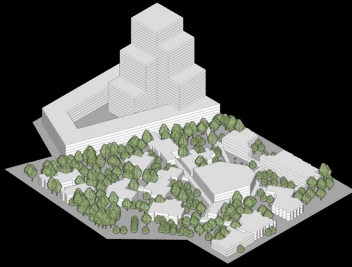
ORGANIC: ORGANIC
FORM FOLLOWS TREES

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SITE: CONCLUSION
MASS FOR SITE

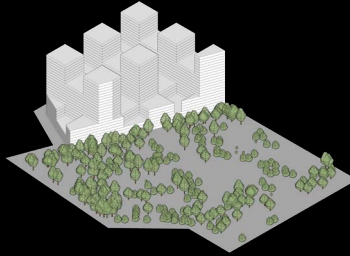
Development MASSING

CLIENT



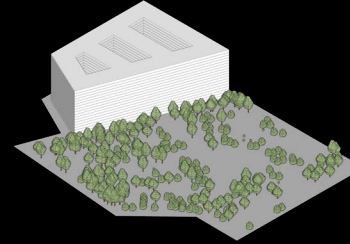
SYMBOLIC: 16 BUILDINGS
& FORM FOLLOWS TREES

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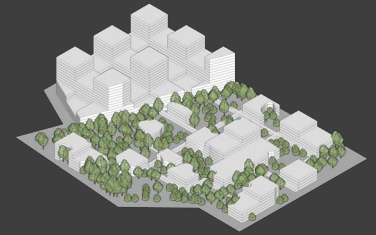
AUTHORITY: FORM
SHOULD "SHOW POWER"

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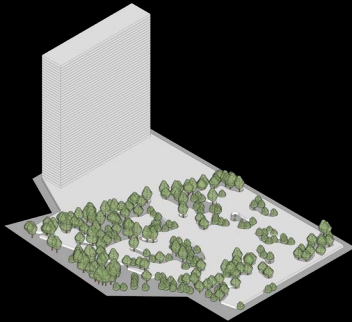
EFFICIENT: GENERIC
COST EFFICIENT FORM

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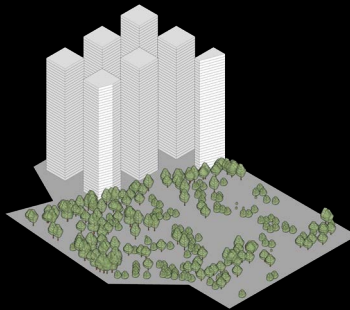
CLIENT: CONCLUSION
MASS FOR CLIENT

PROGRAM



SIMPLE: ALL THE PROGRAM
IN 1 TOWER AND FLOOR

+



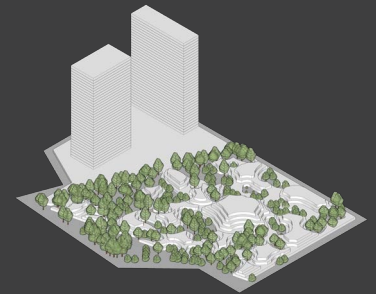
GRID: ALL THE PROGRAM
IN 25X25M TOWERS

+



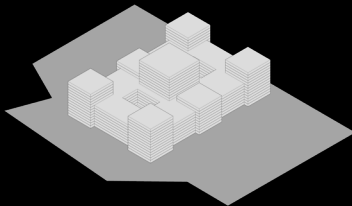
ADAPTABLE: 3 TOWERS
AND BIG GROUND FLOOR

=



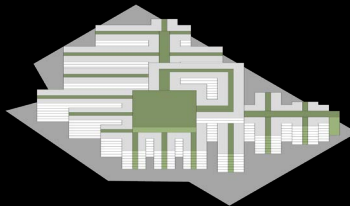
PROGRAM: CONCLUSION
MASS FOR PROGRAM

SITE



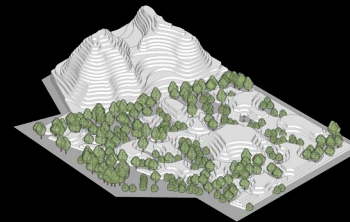
COPY: EXTENSION OF THE
AXIS OF DEMOCRACY

+



FLOW: MASSING FOLLOWS
FLOW AND DAYLIGHT

+



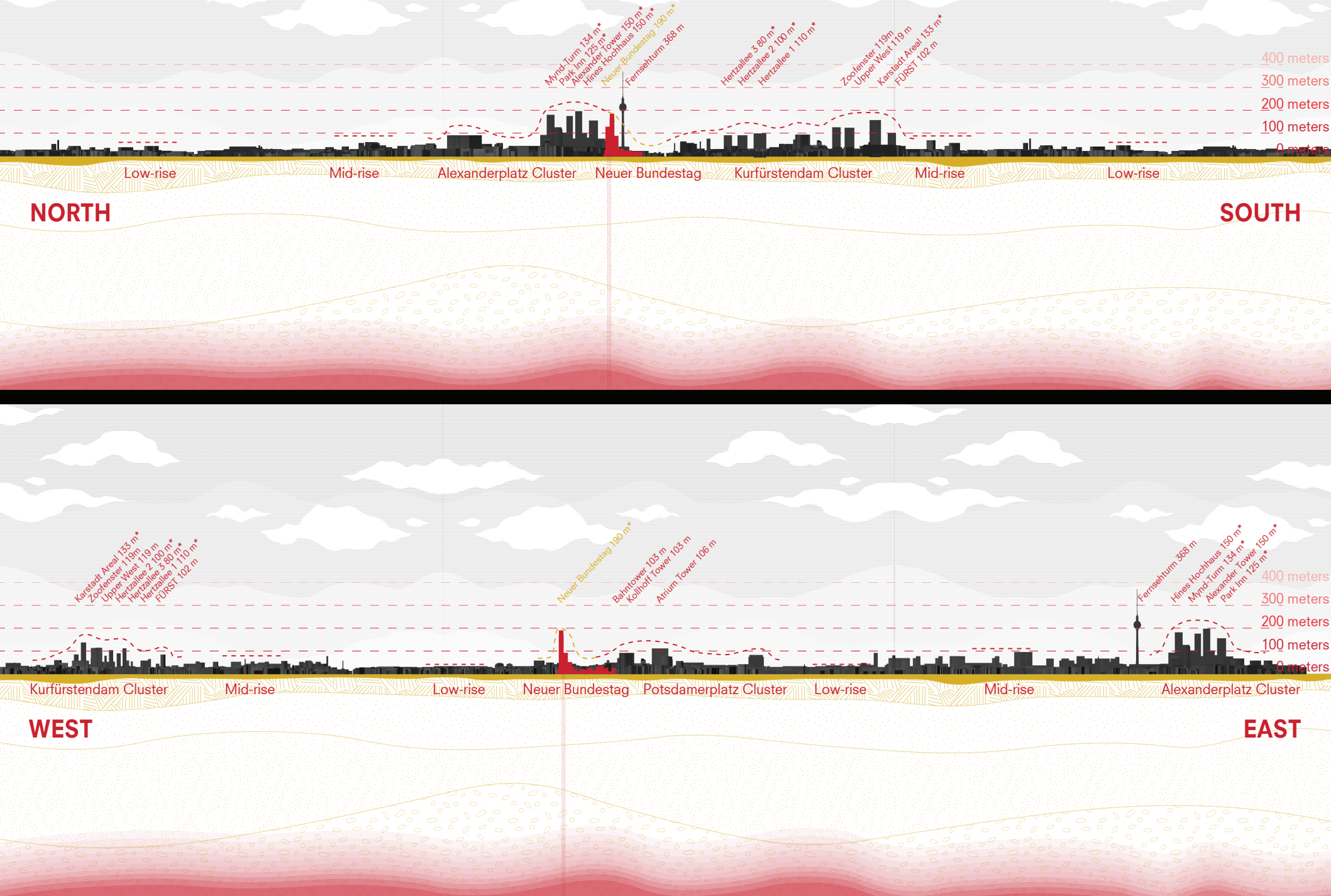
ORGANIC: ORGANIC
FORM FOLLOWS TREES

=



SITE: CONCLUSION
MASS FOR SITE

Development URBAN SECTIONS



Development
URBAN VIEW



DEVELOPMENT

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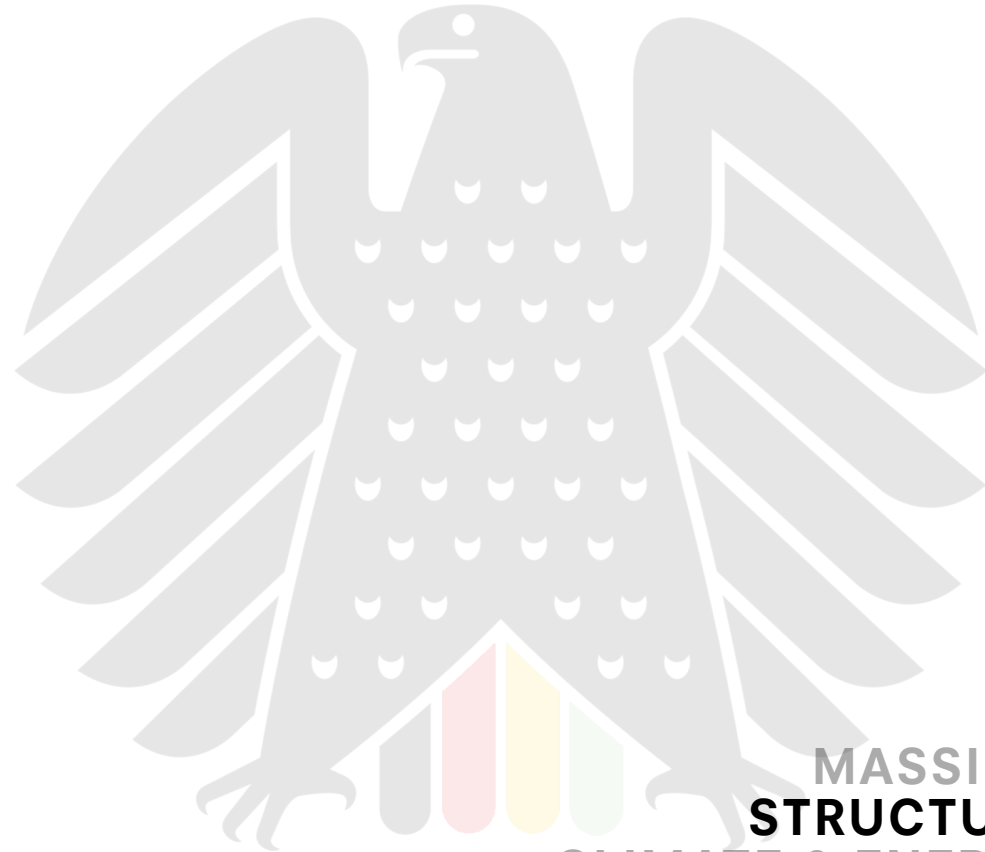
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MASSING
STRUCTURE
CLIMATE & ENERGY
DETAILING
MATERIAL

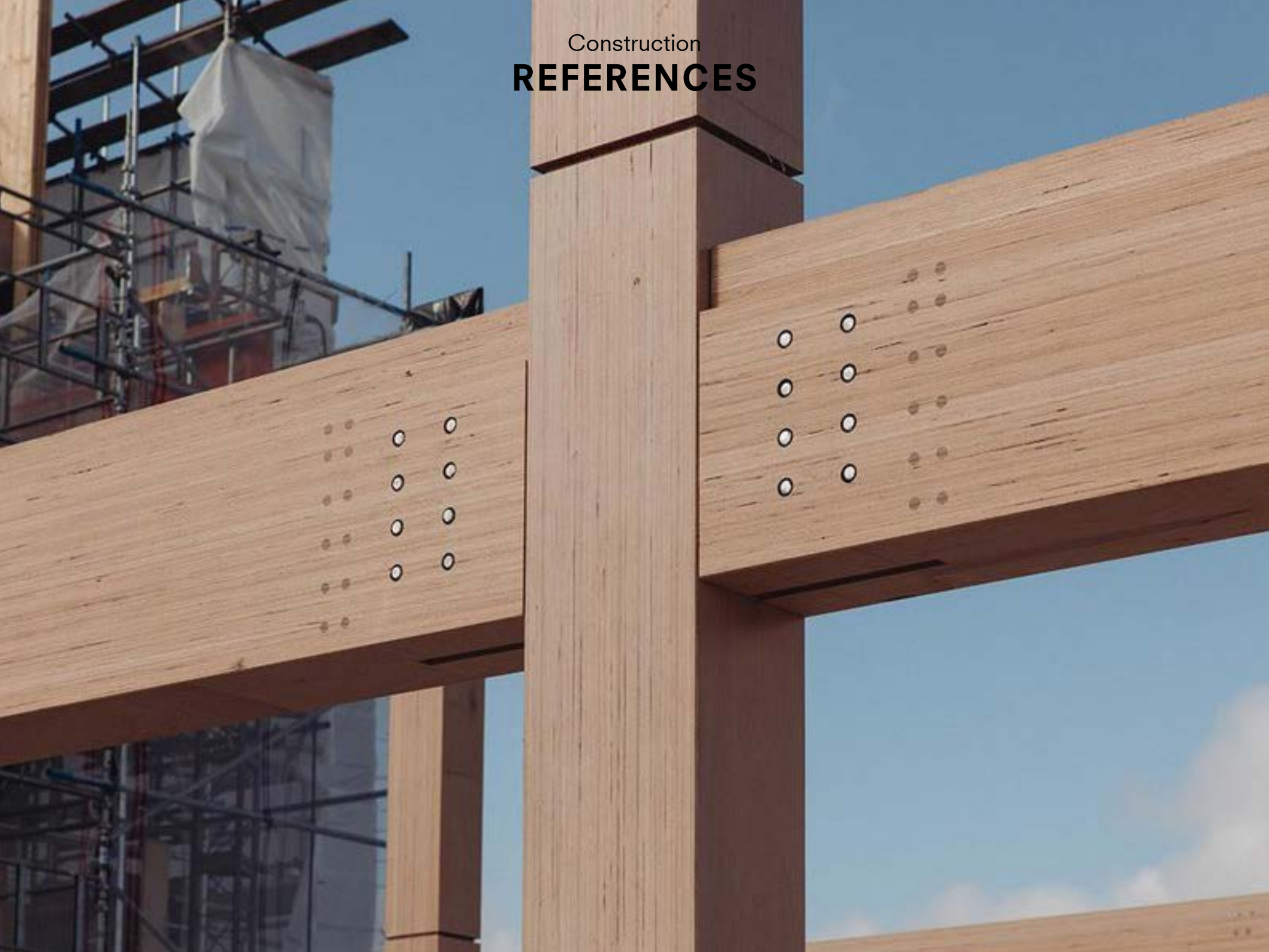
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Construction
REFERENCES



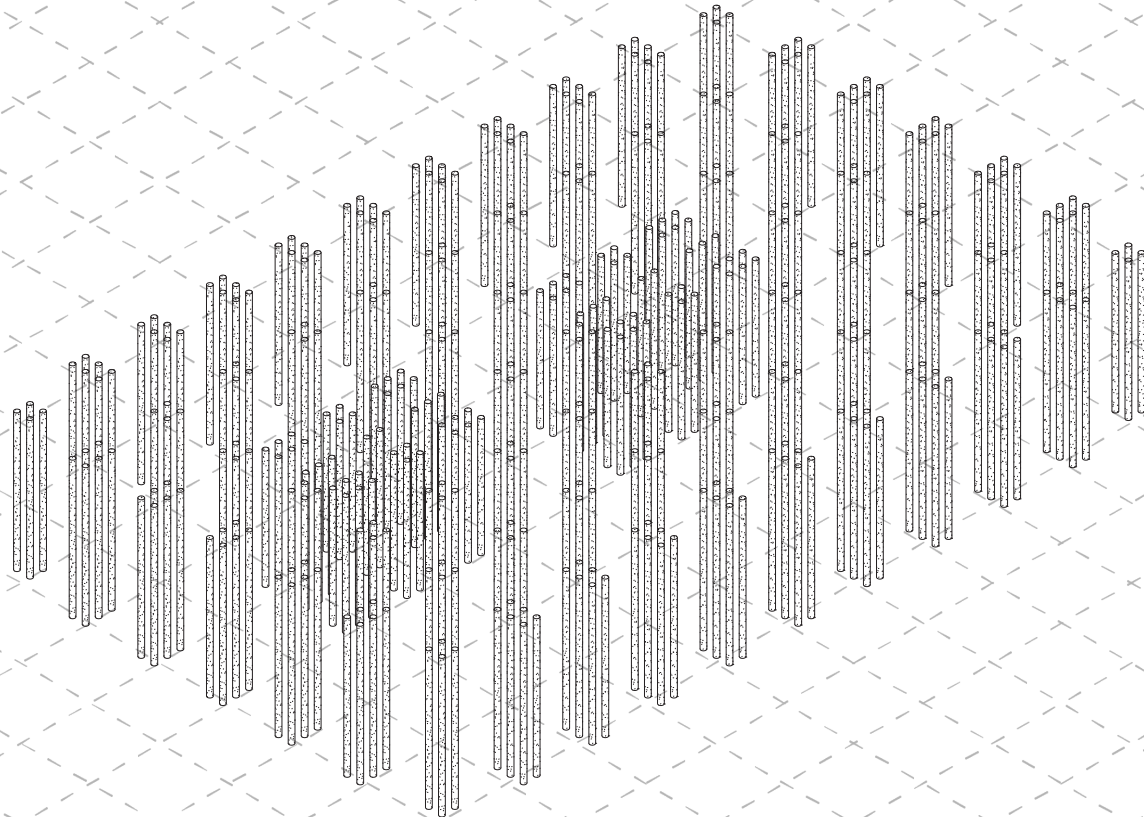
Construction
REFERENCES



Construction

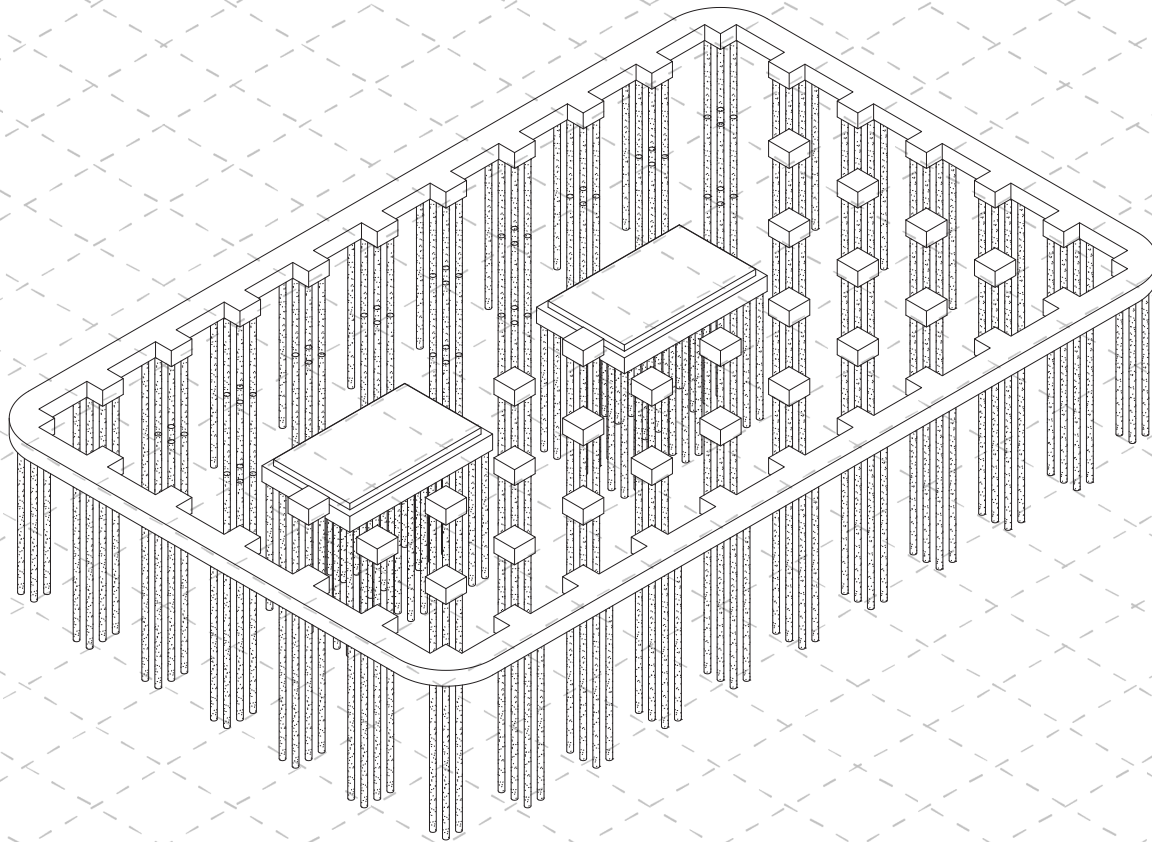
GRID 5X5M

Construction SMALL BUILDINGS



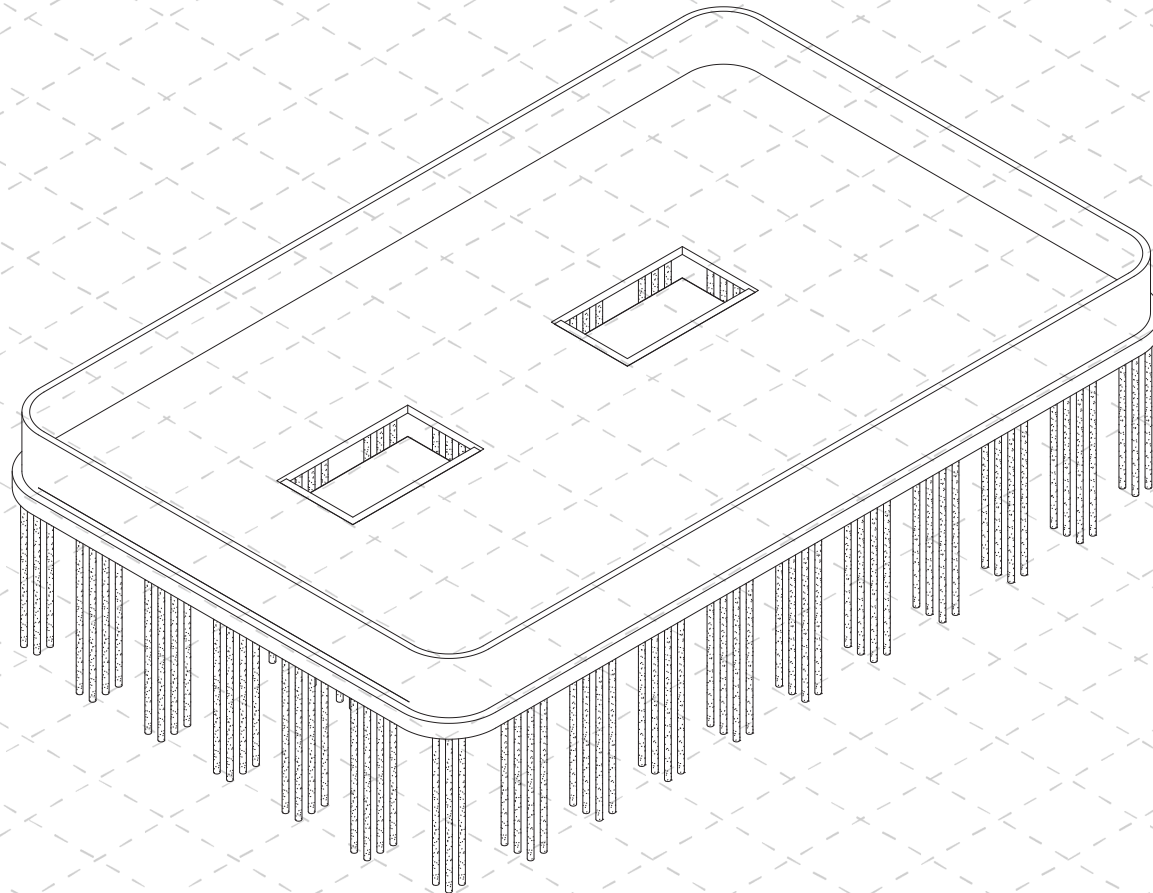
Construction

SMALL BUILDINGS



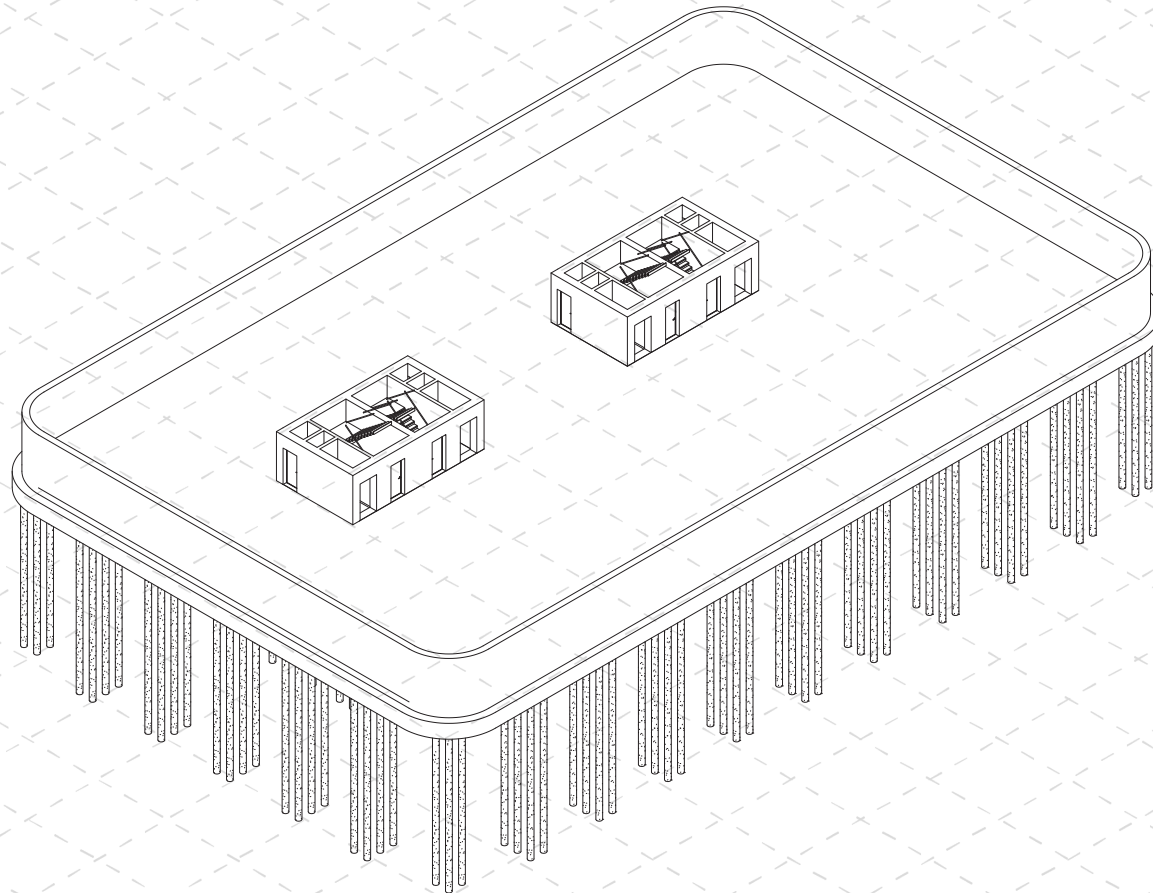
Construction

SMALL BUILDINGS



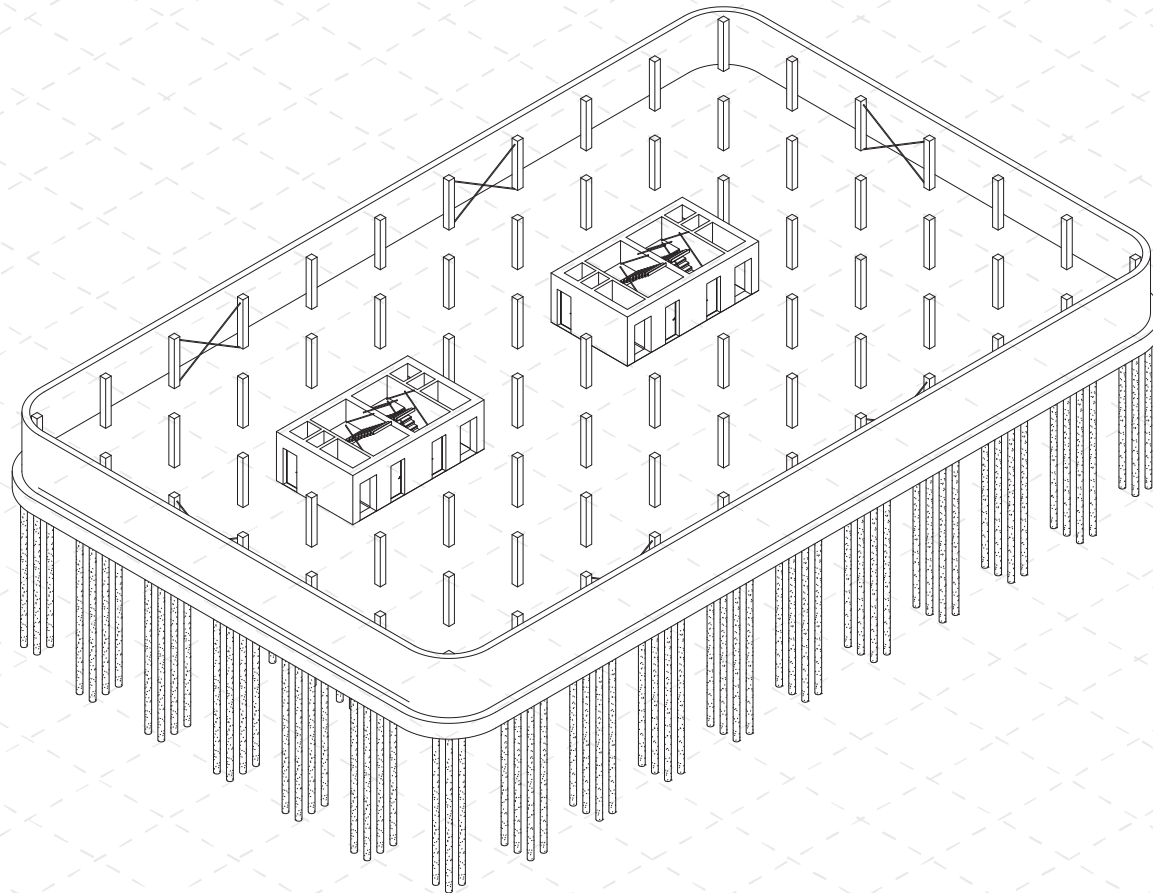
Construction

SMALL BUILDINGS



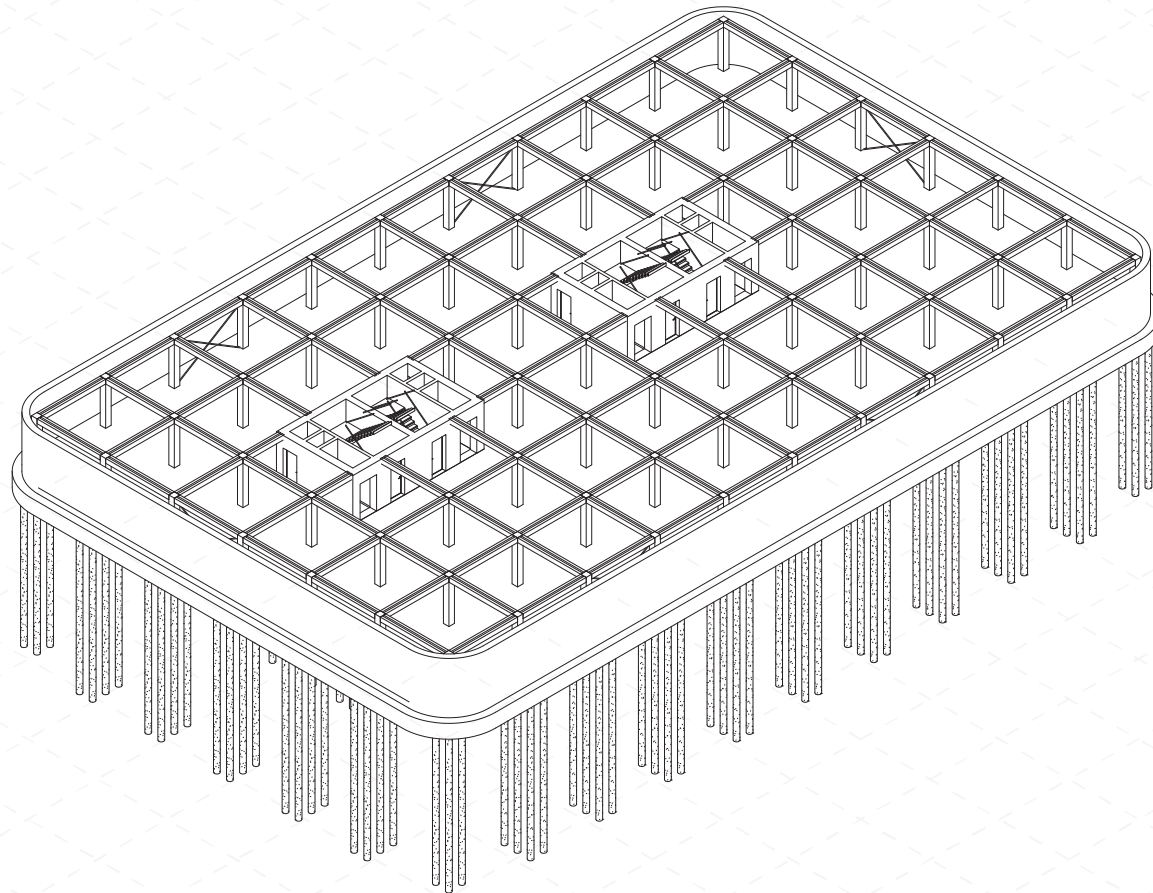
Construction

SMALL BUILDINGS



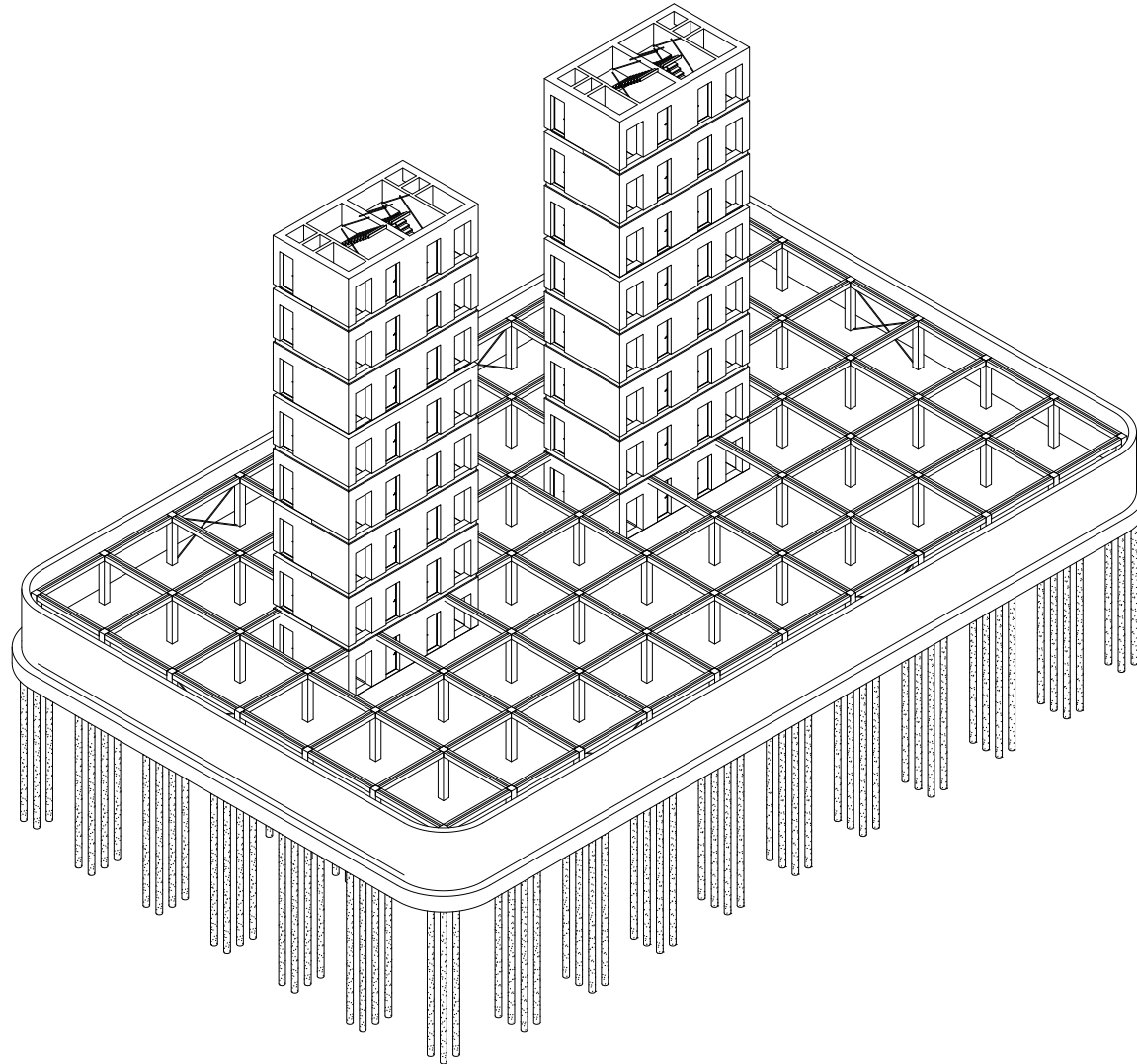
Construction

SMALL BUILDINGS



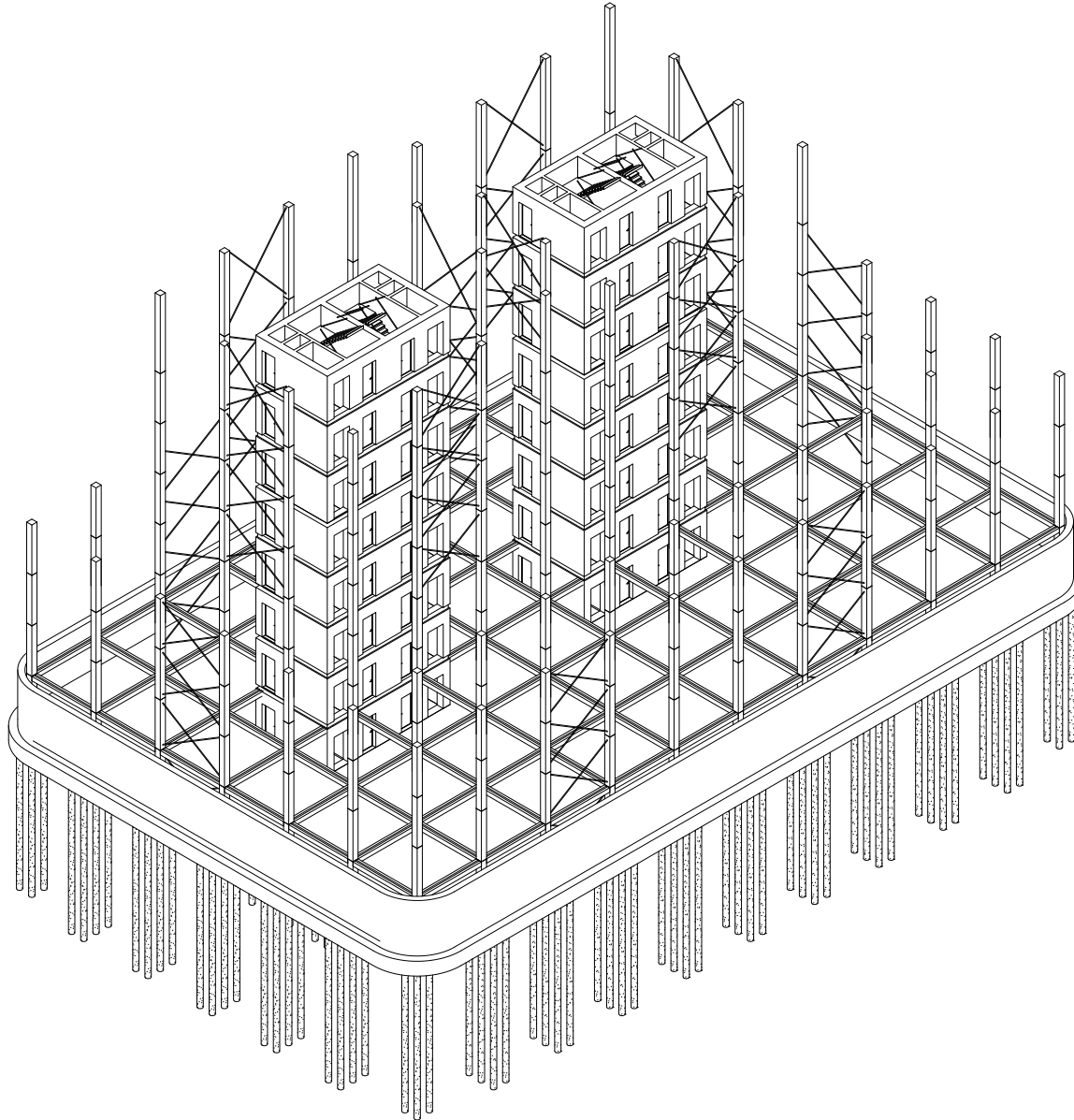
Construction

SMALL BUILDINGS



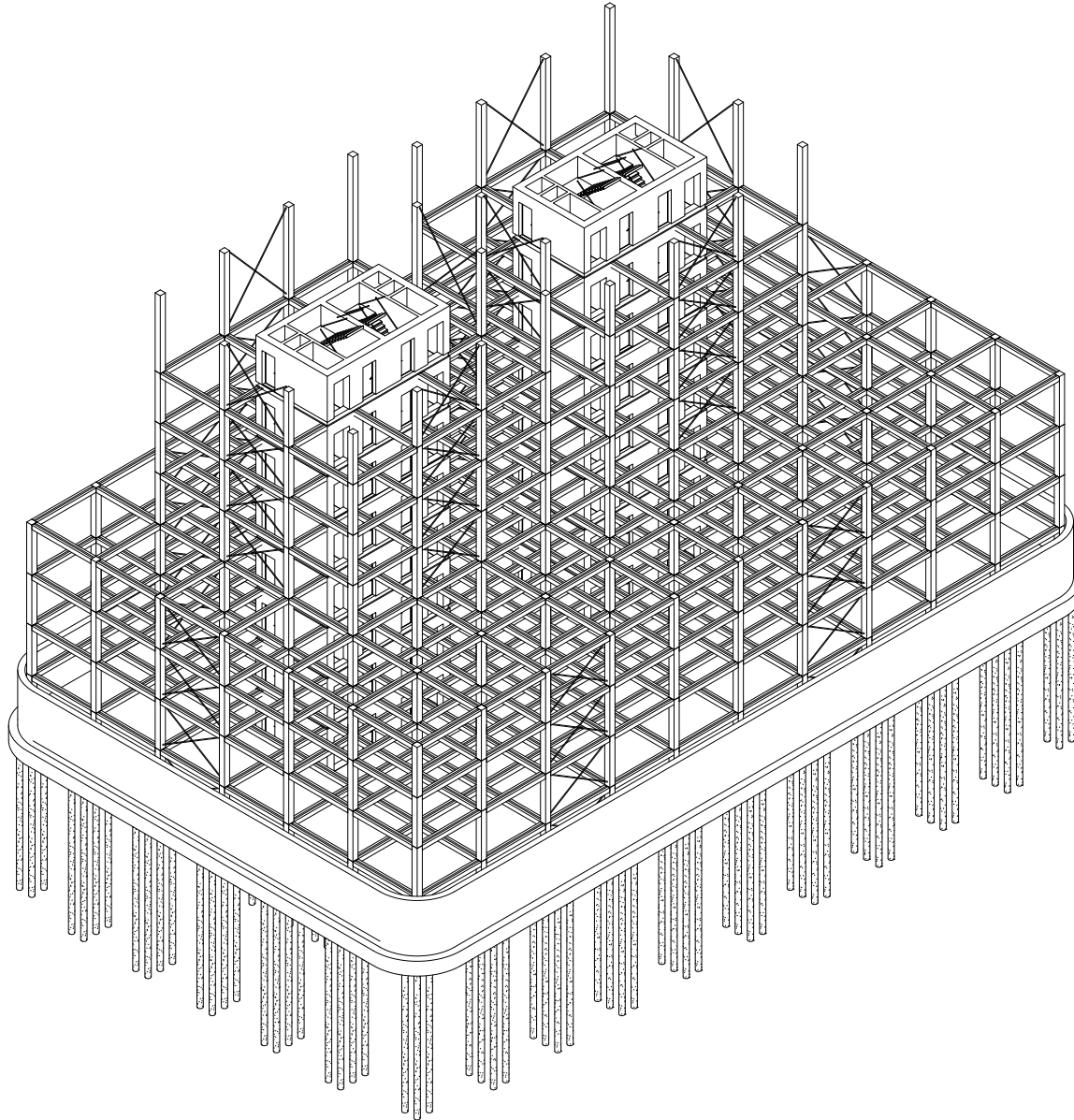
Construction

SMALL BUILDINGS



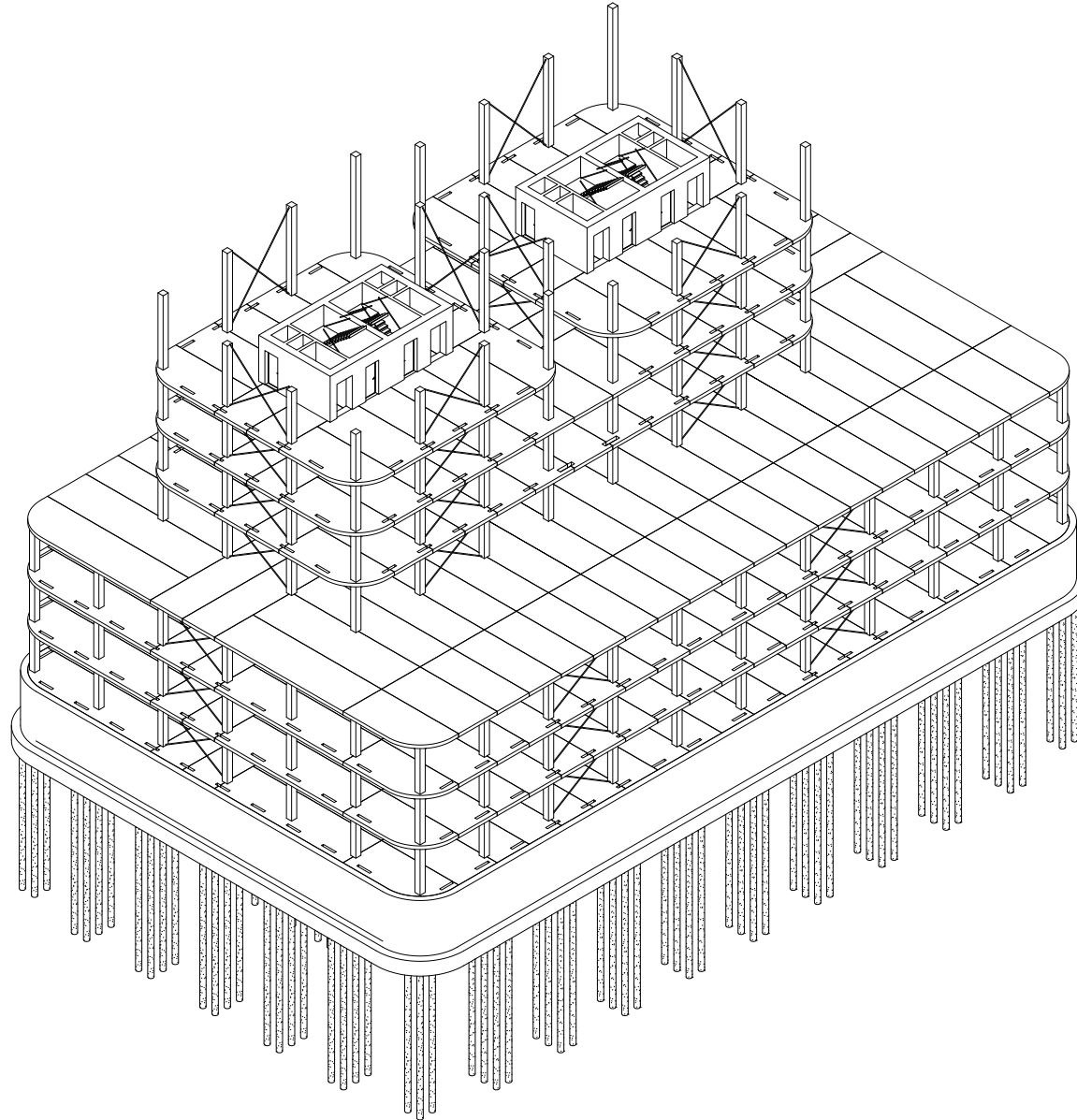
Construction

SMALL BUILDINGS



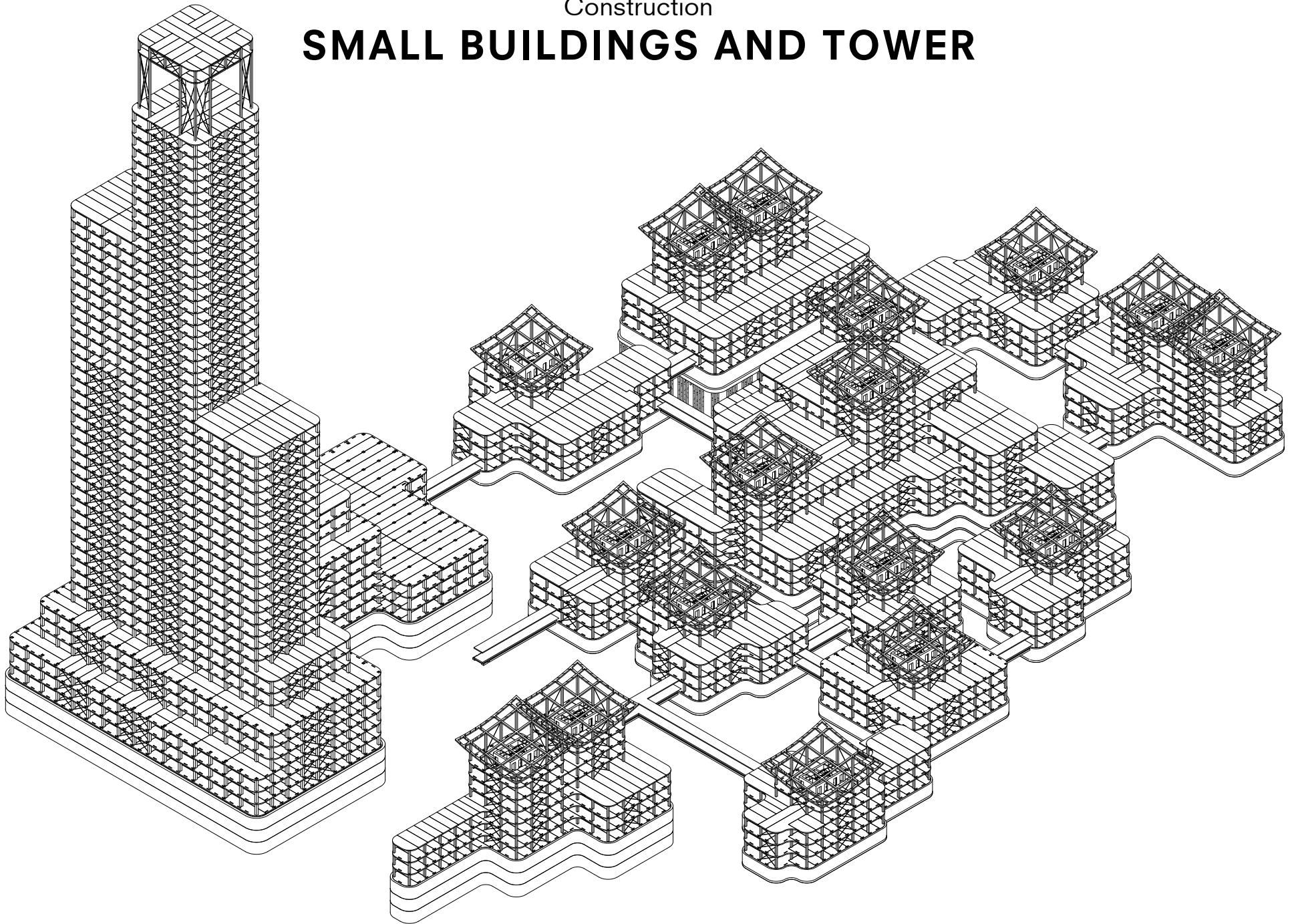
Construction

SMALL BUILDINGS

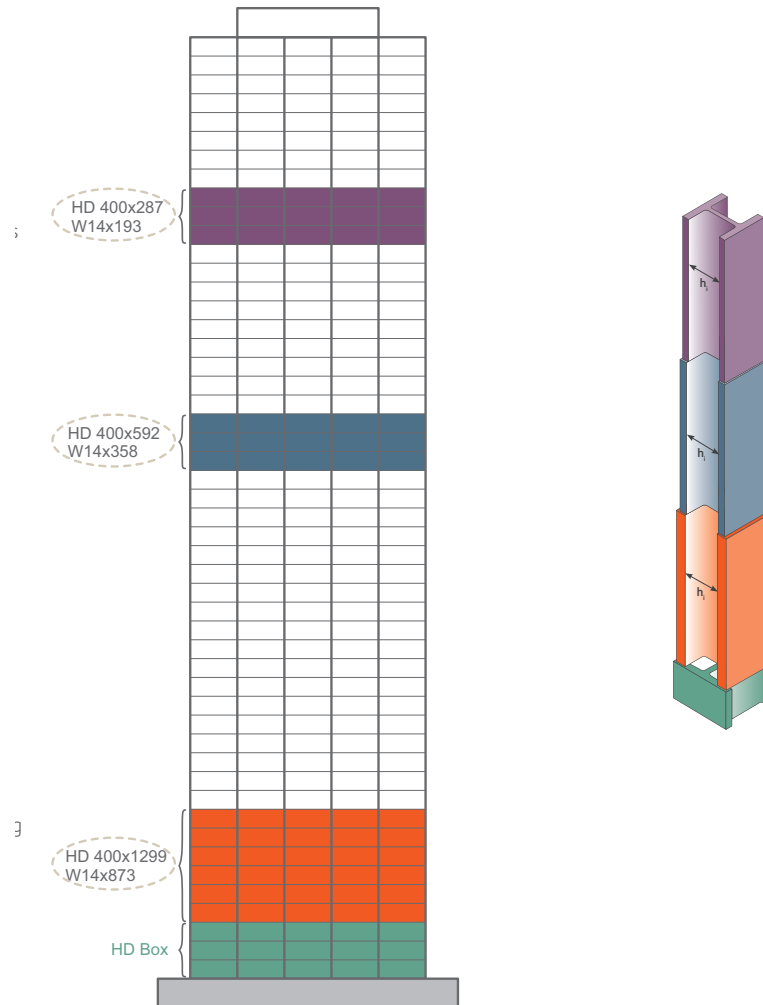
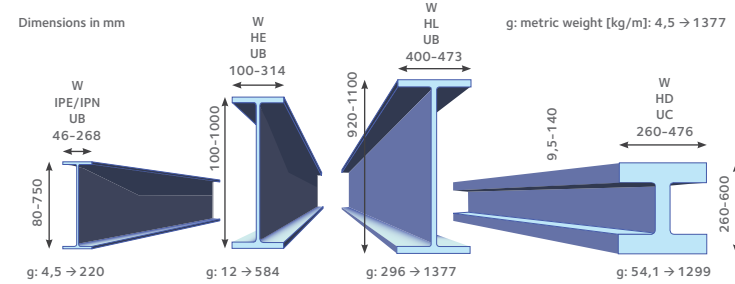
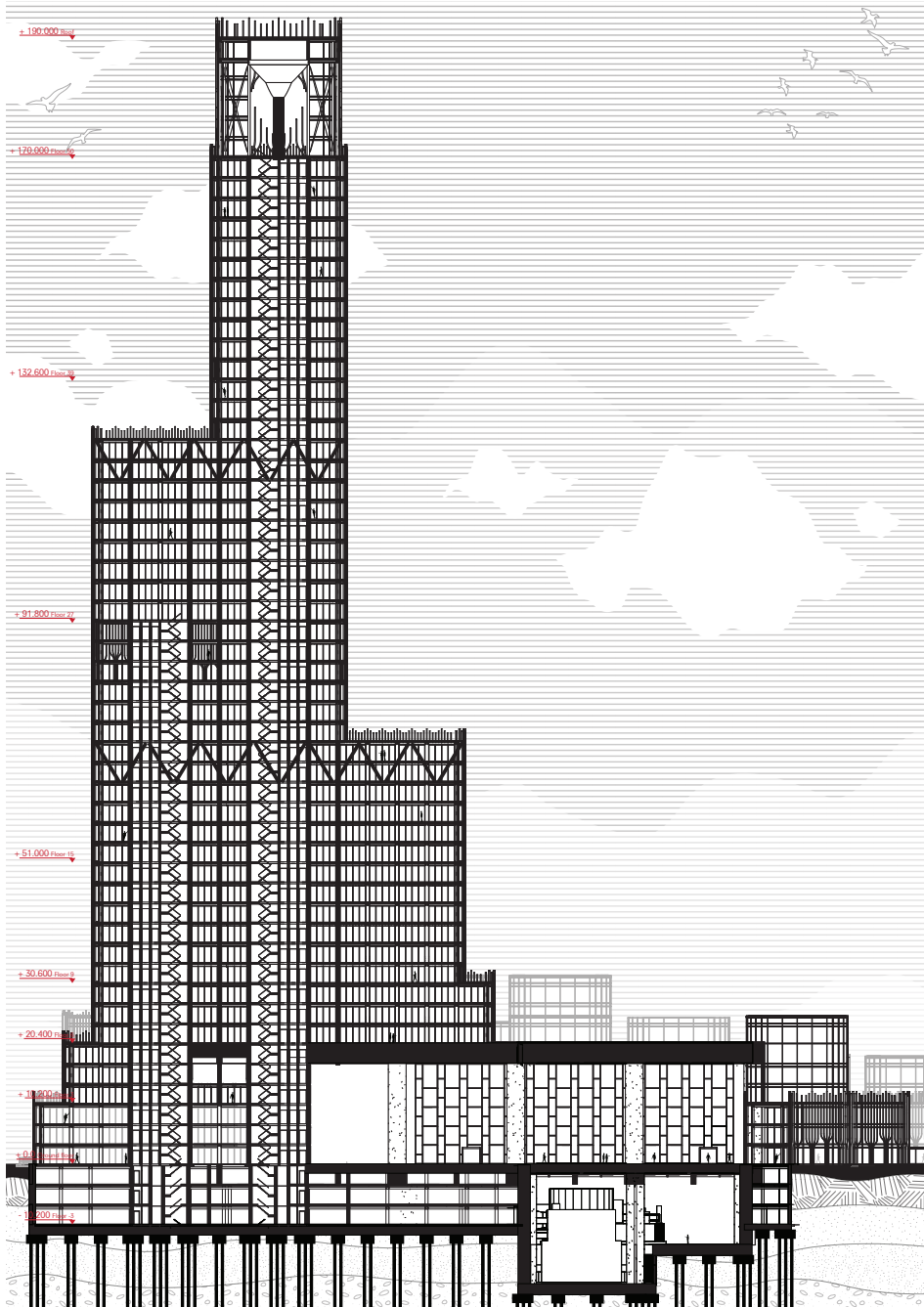


Construction

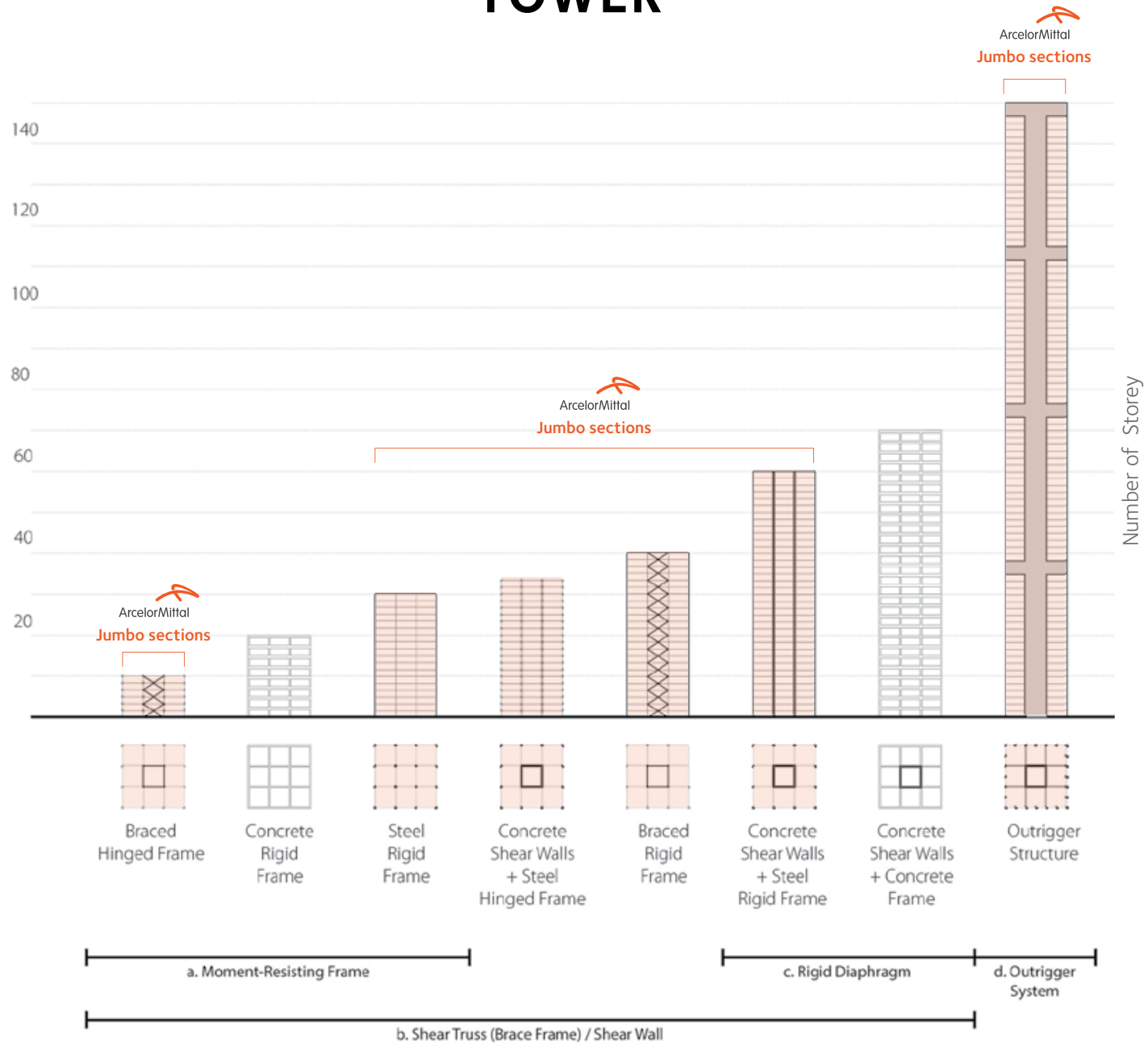
SMALL BUILDINGS AND TOWER



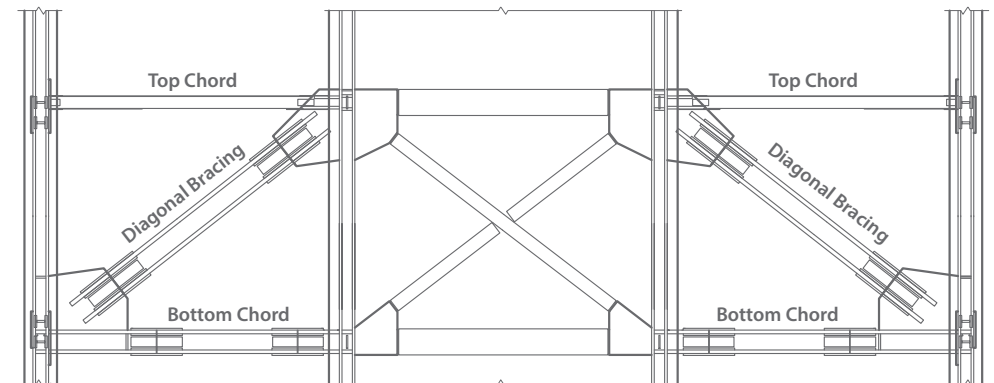
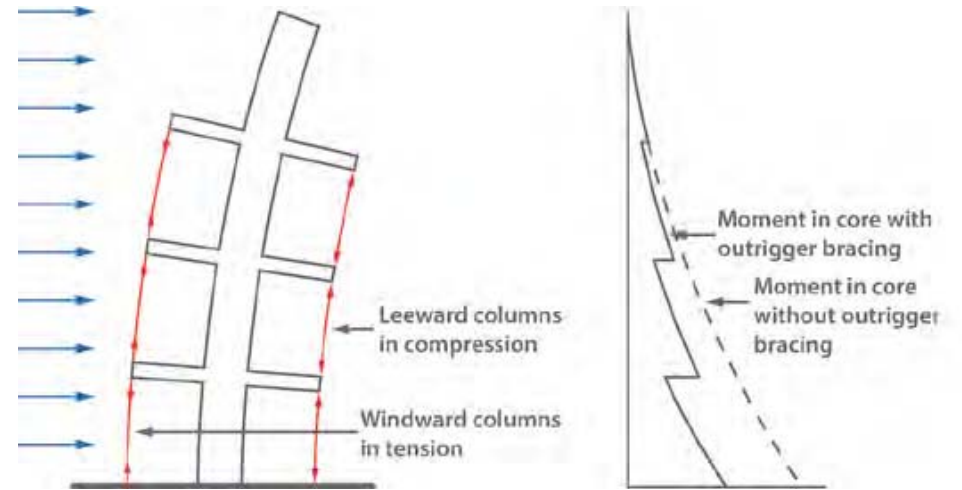
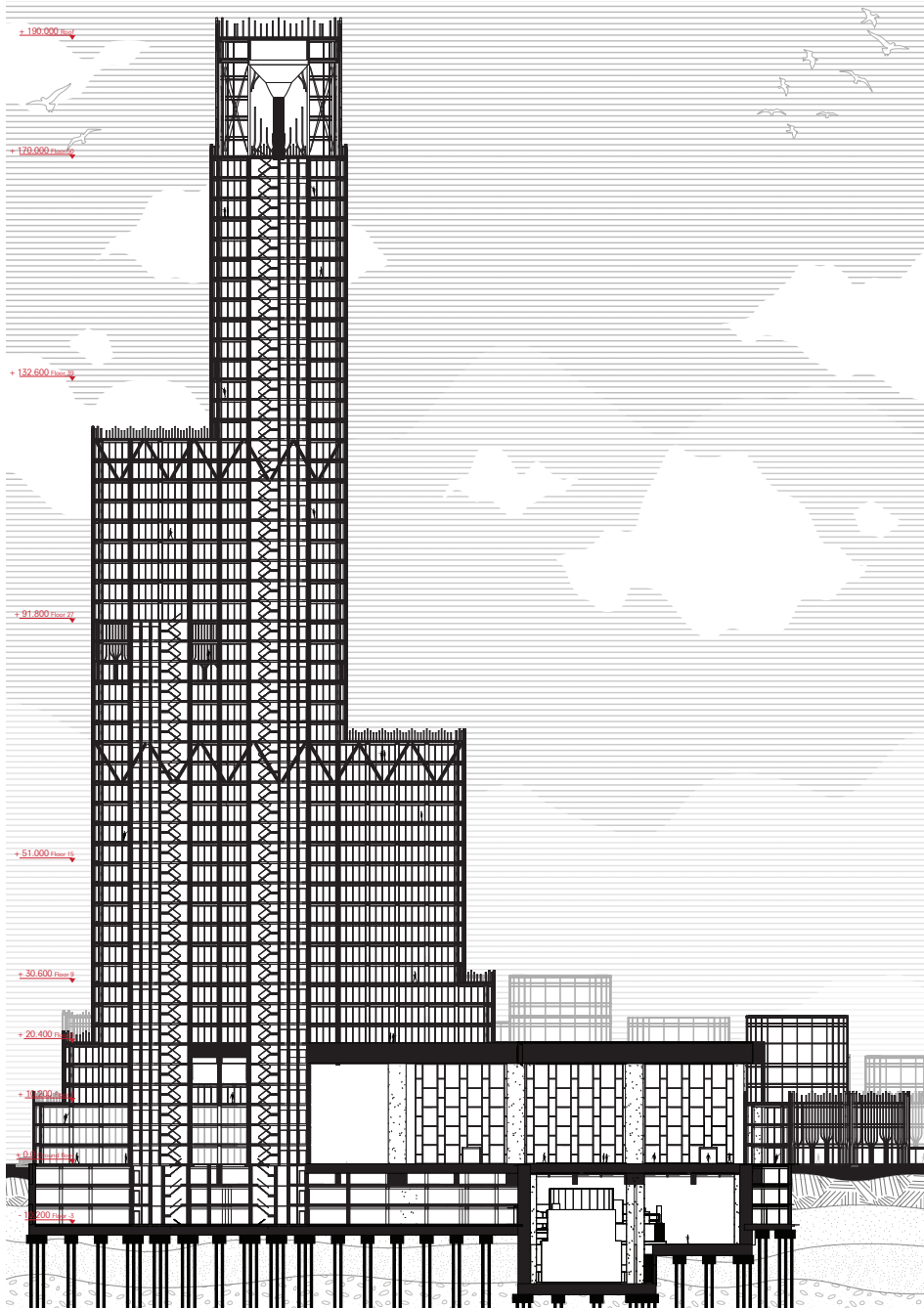
Construction TOWER



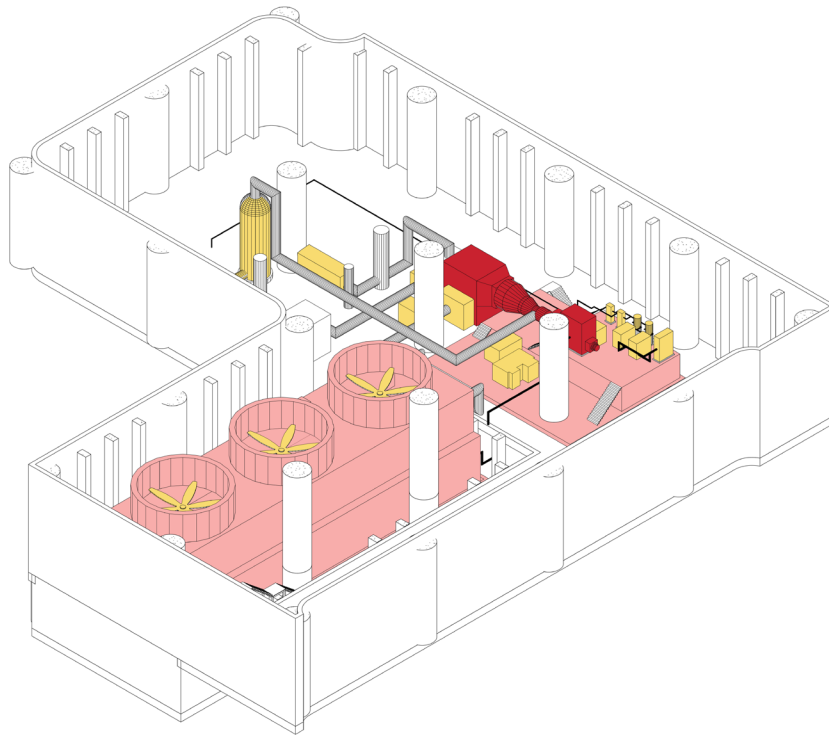
Construction TOWER



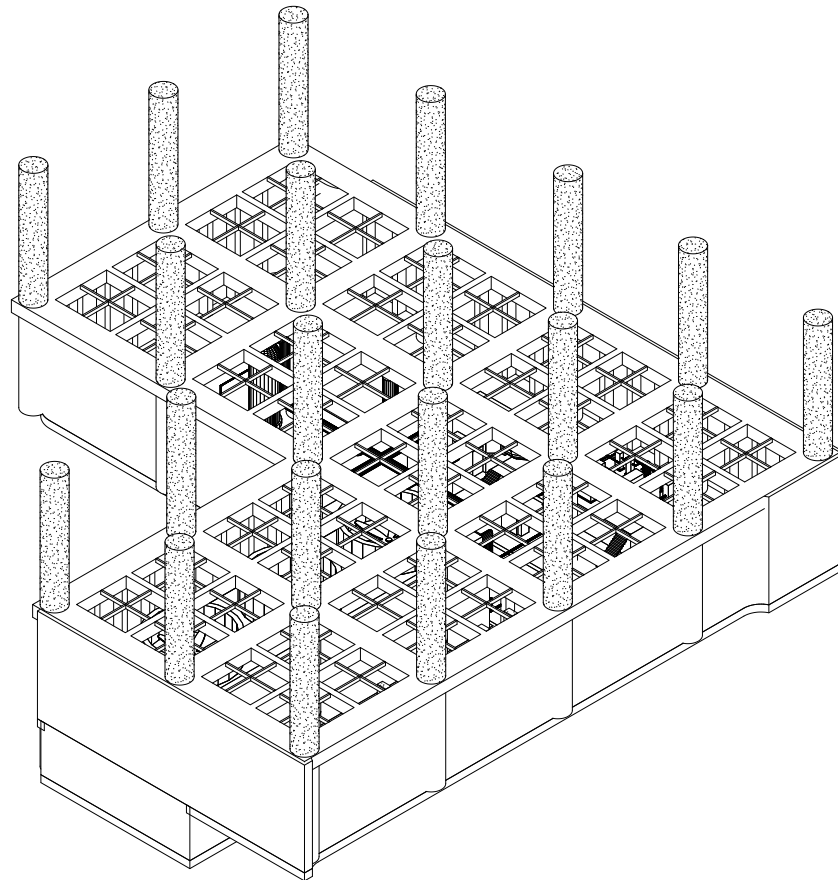
Construction TOWER



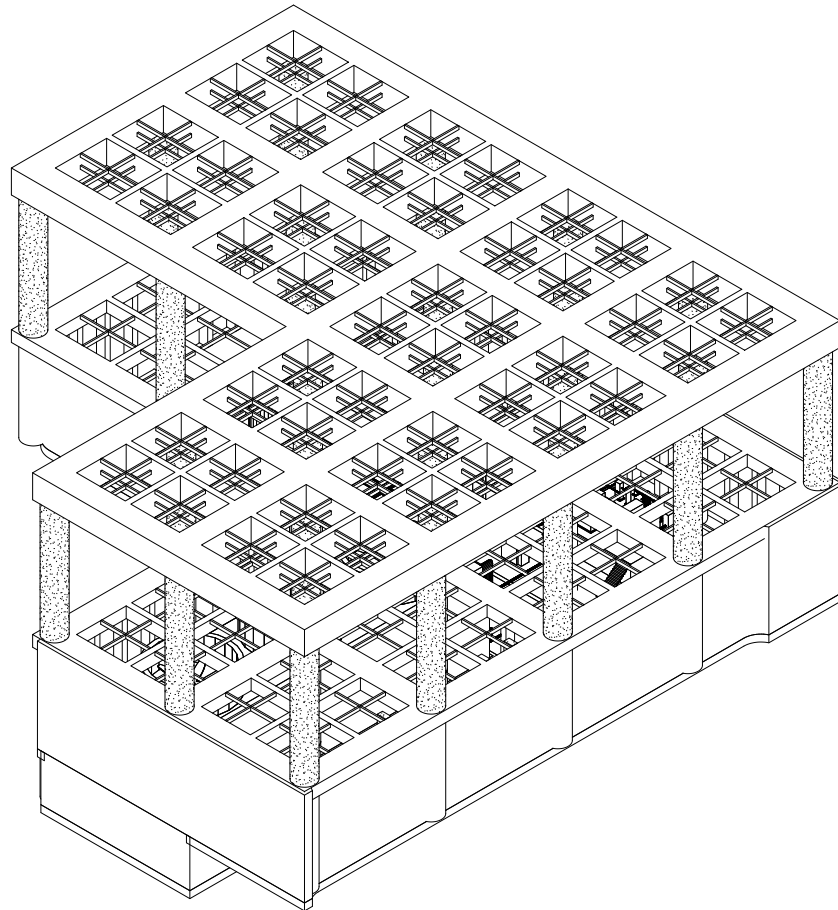
Construction
ATRIUM



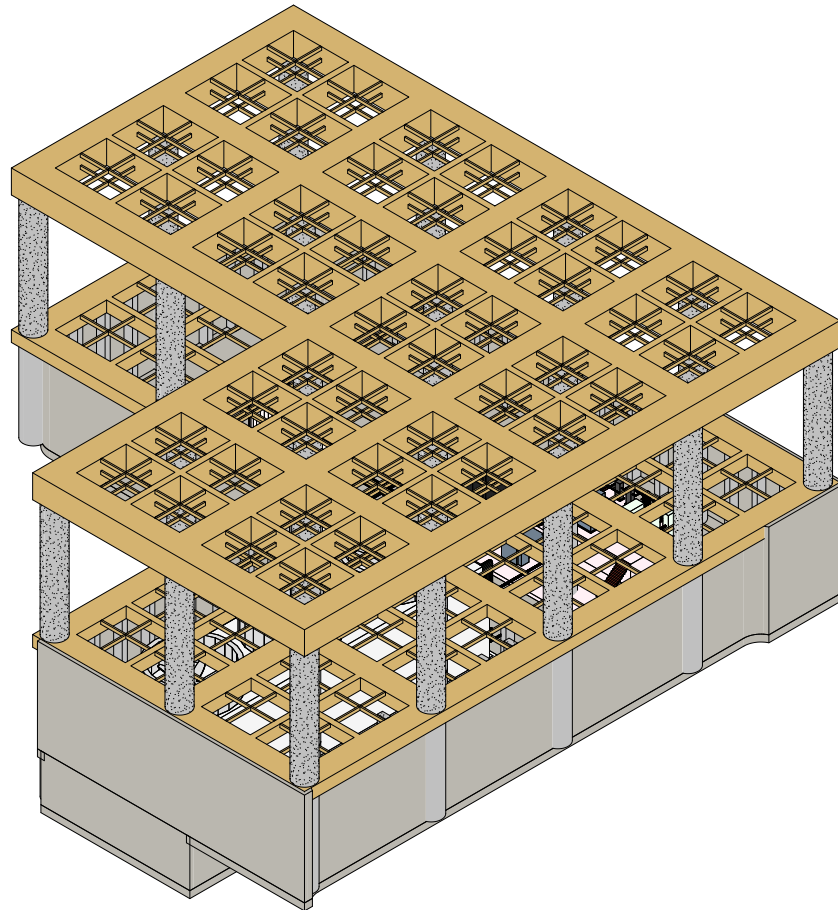
Construction
ATRIUM



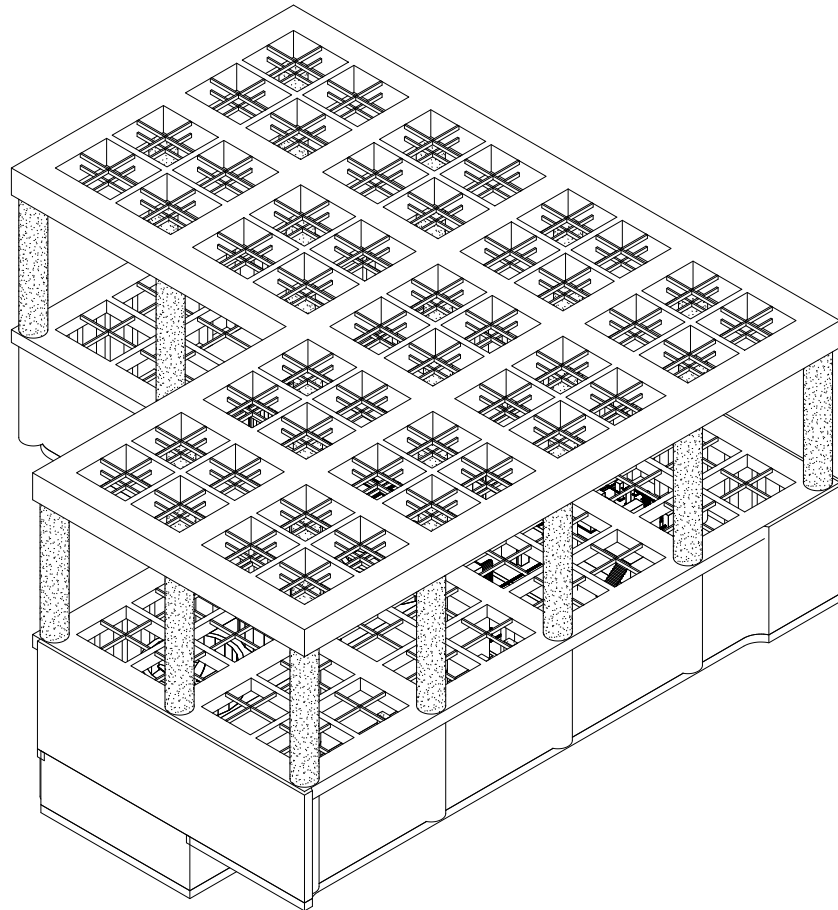
Construction
ATRIUM



Construction
ATRIUM



Construction
ATRIUM



DEVELOPMENT

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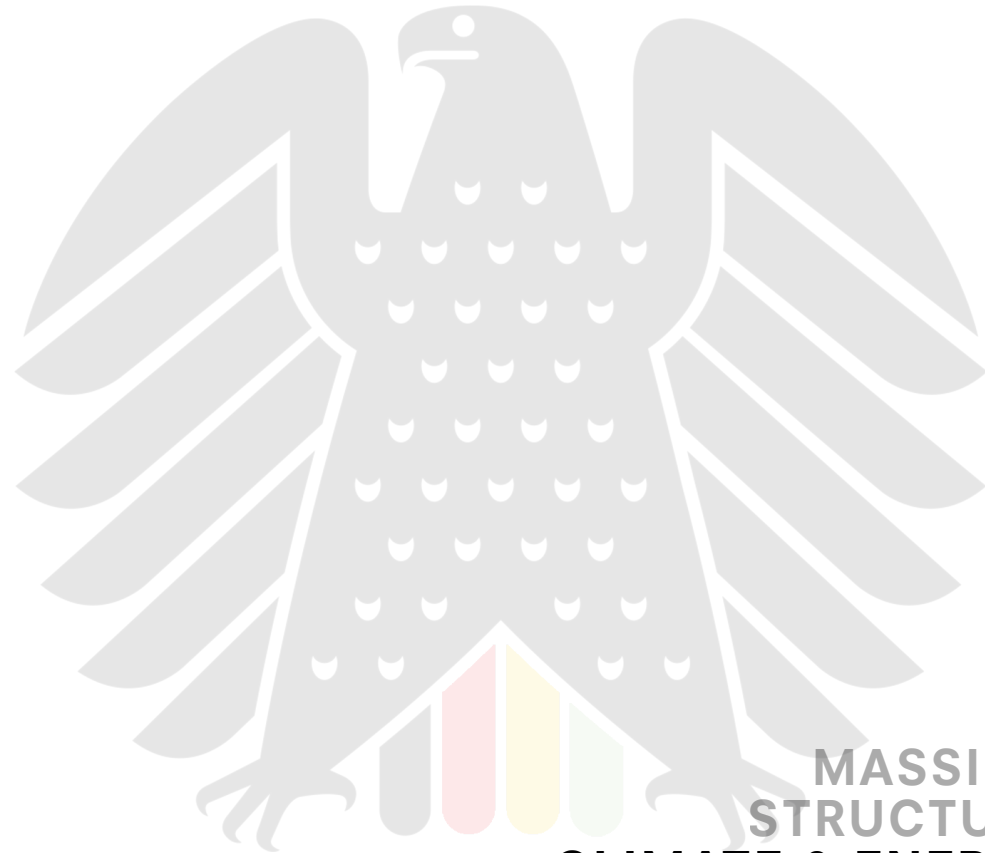
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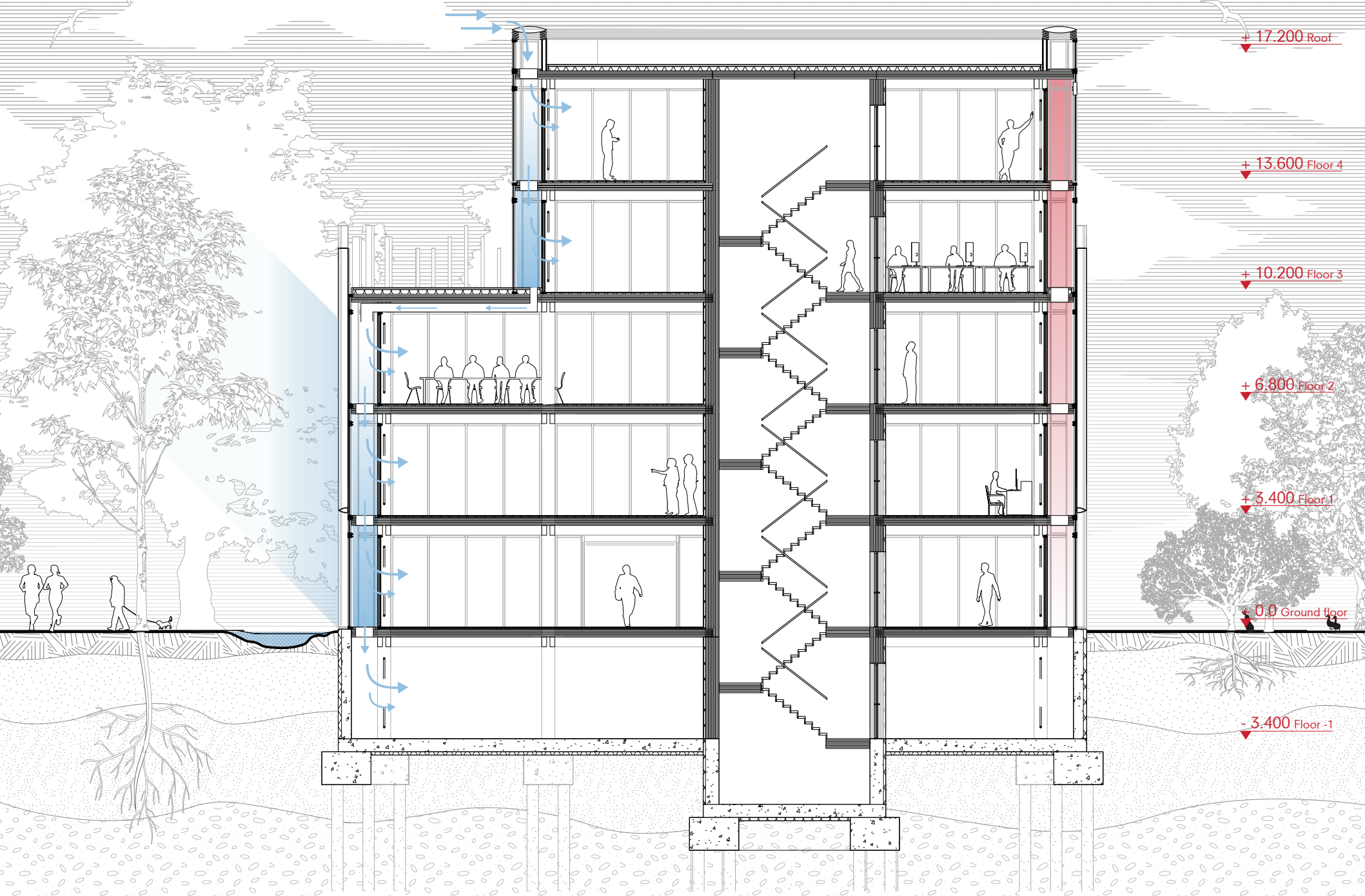


MASSING
STRUCTURE
CLIMATE & ENERGY
DETAILING
MATERIAL

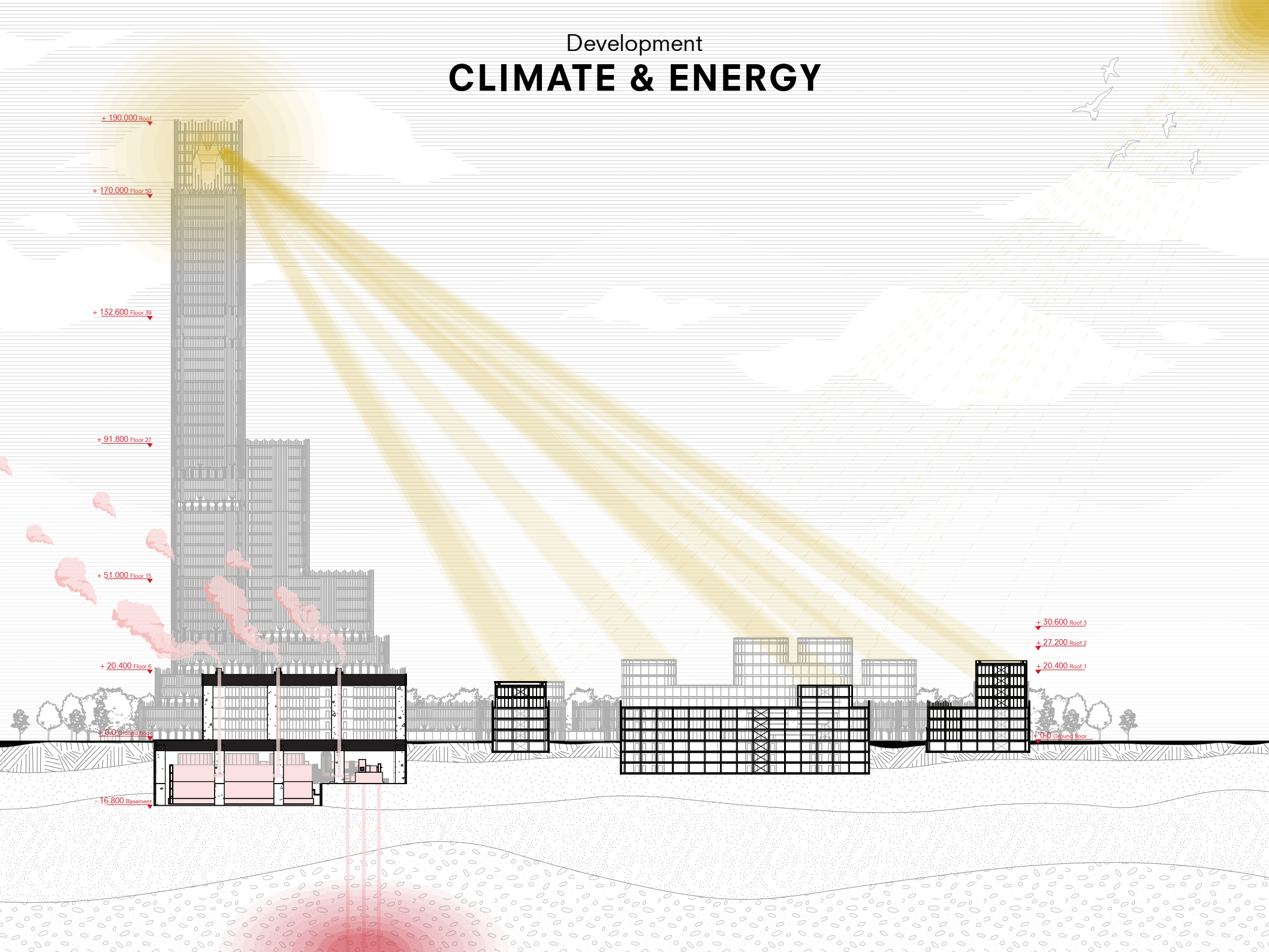
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Development CLIMATE & ENERGY



Development CLIMATE & ENERGY



DEVELOPMENT

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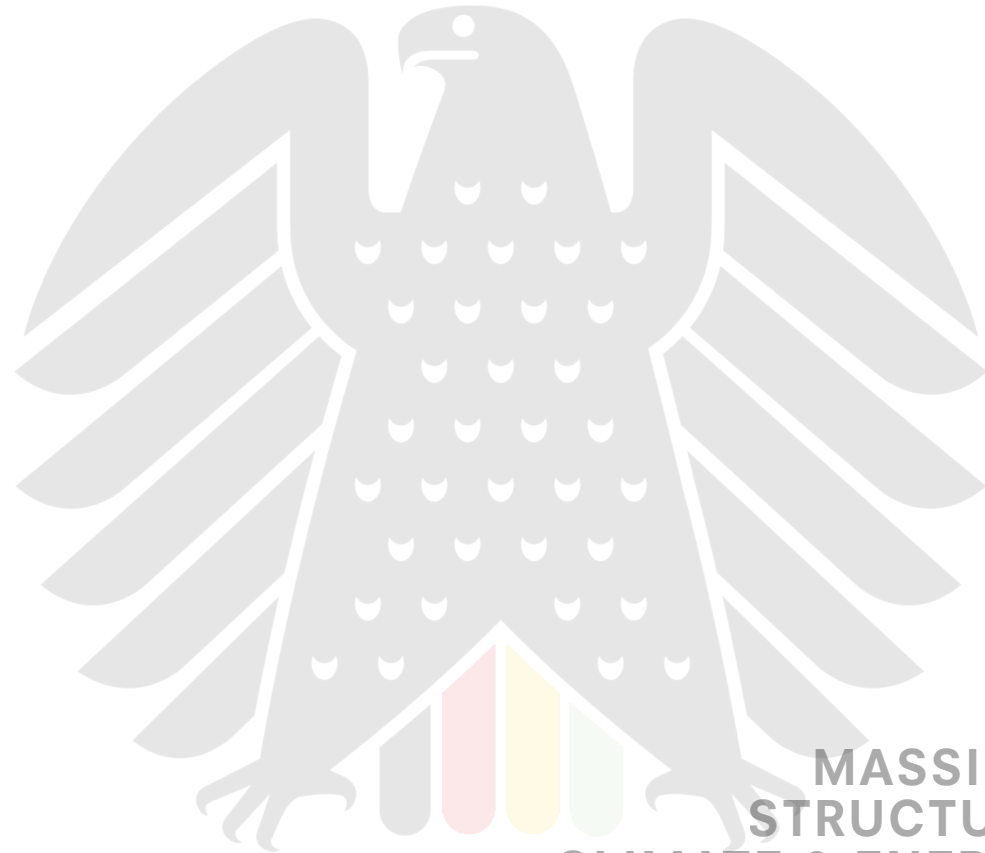
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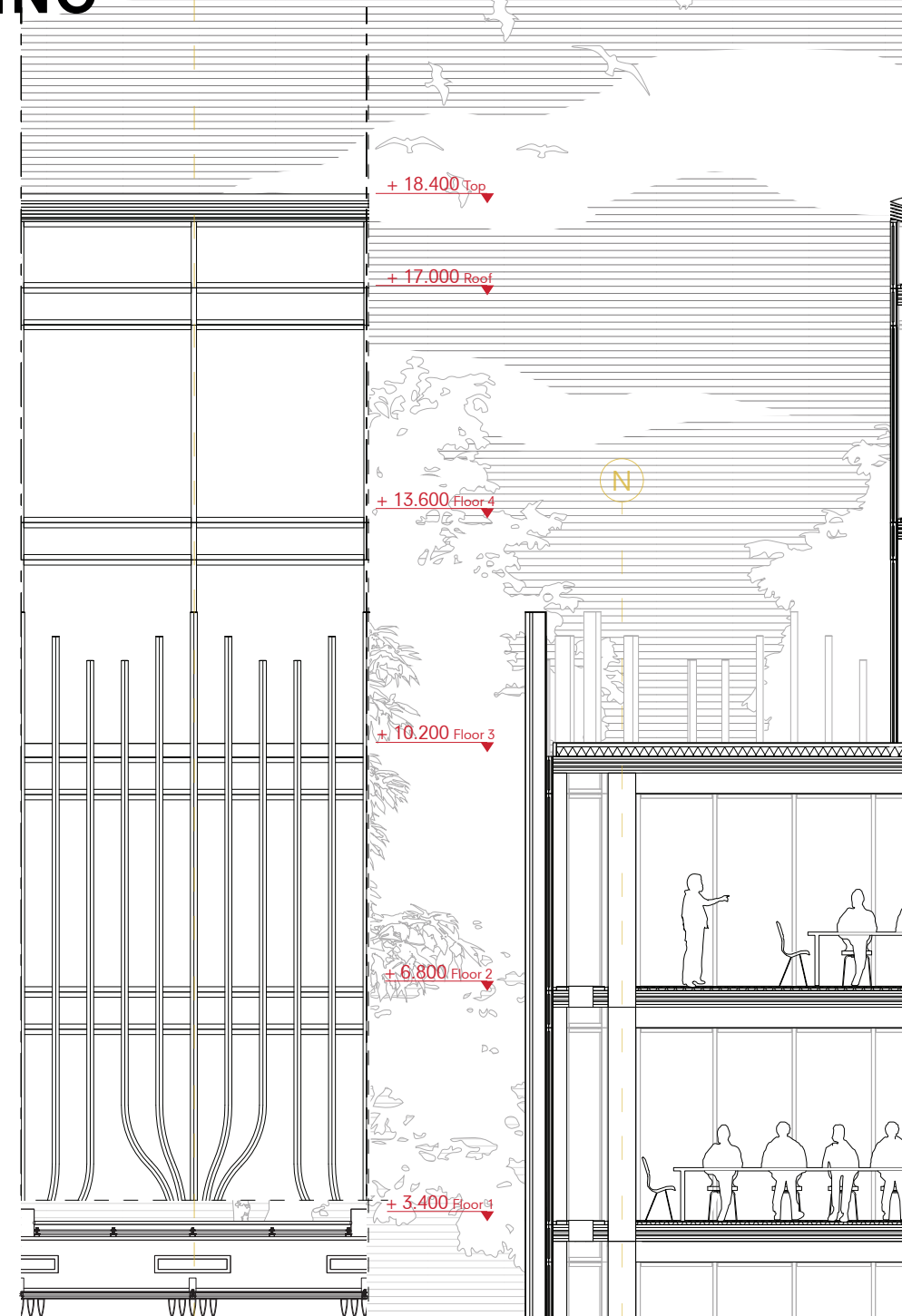
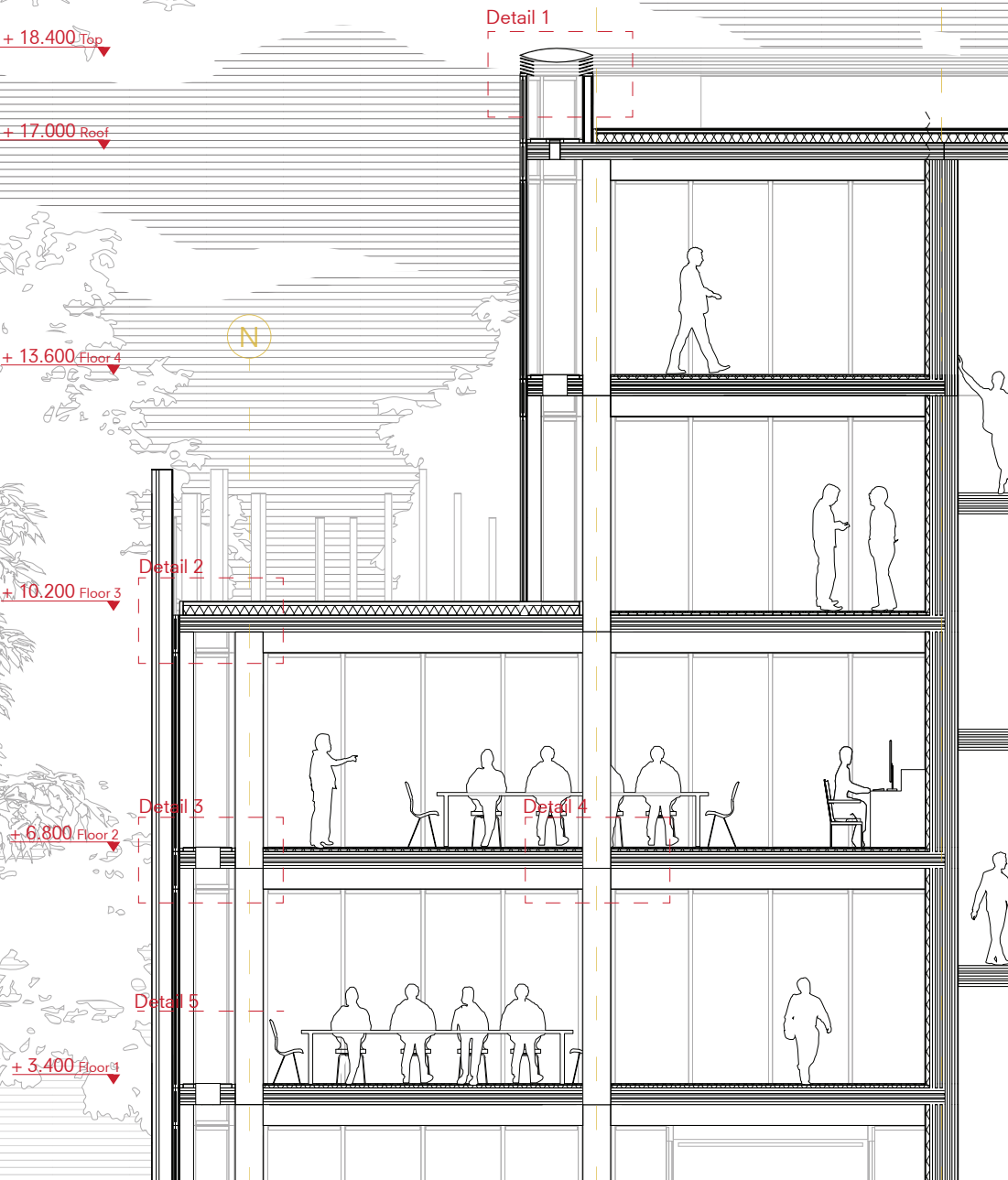


MASSING
STRUCTURE
CLIMATE & ENERGY
DETAILING
MATERIAL

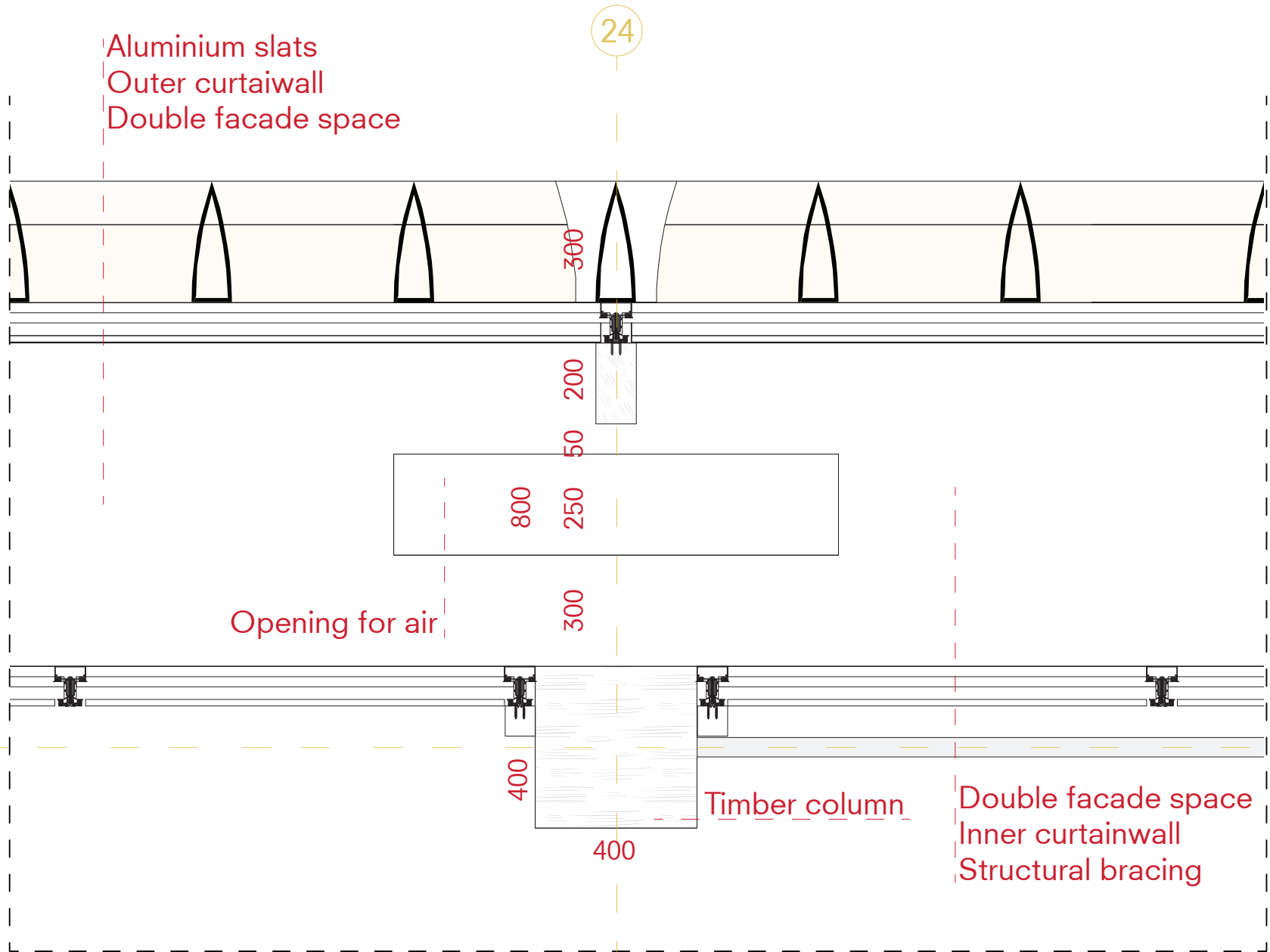
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Development DETAILING

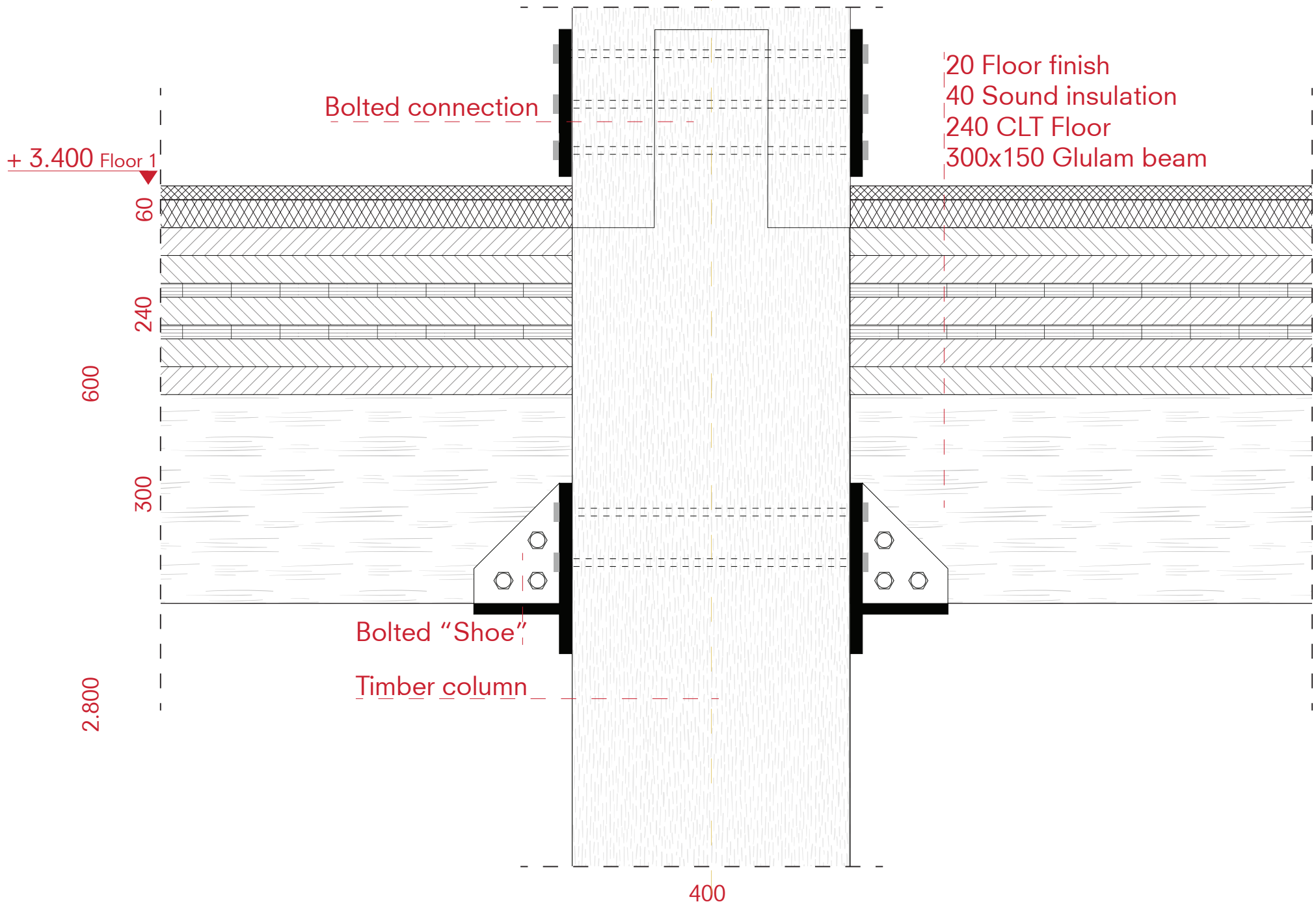


Development DETAILING



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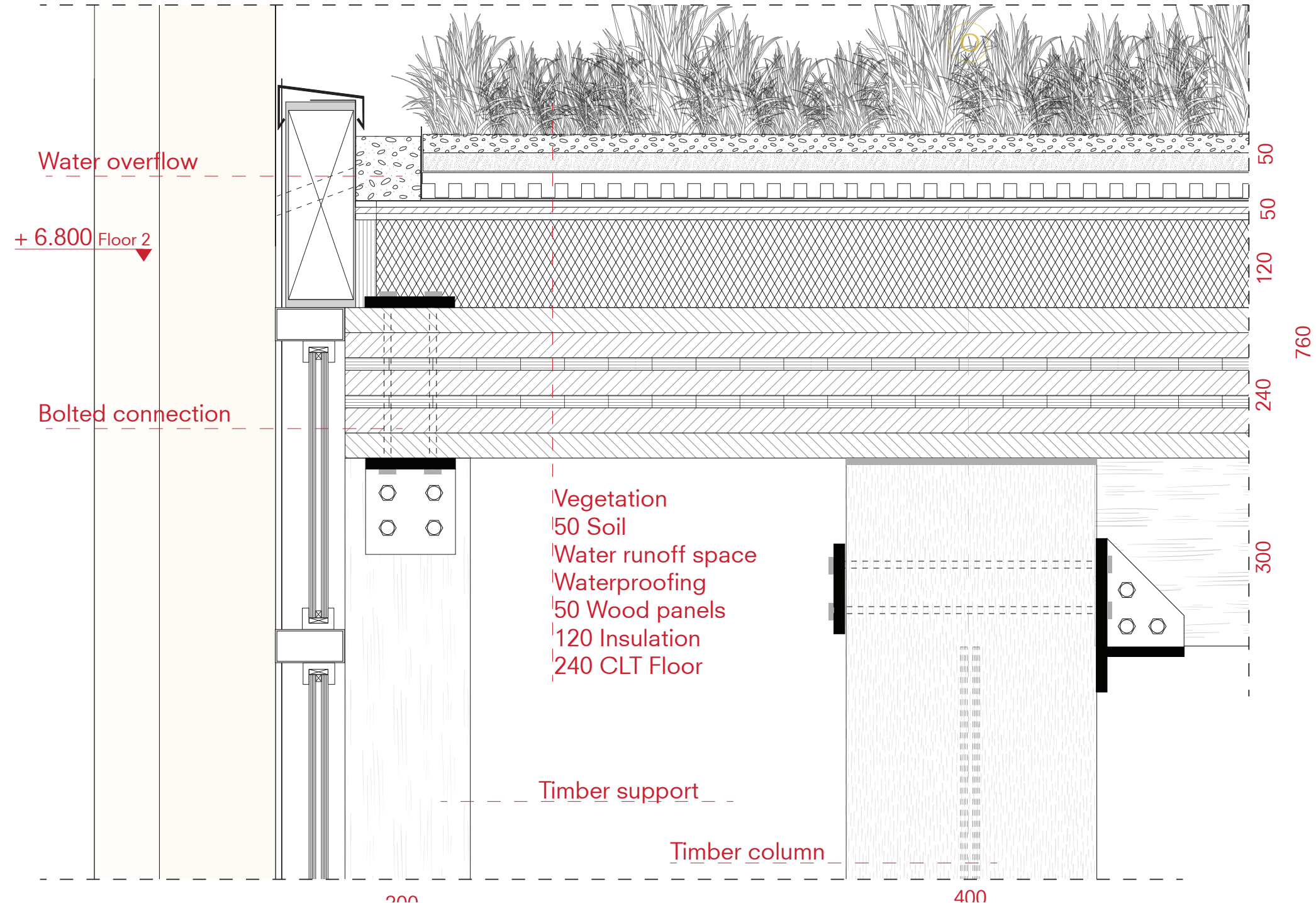
Development DETAILING



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Development DETAILING



DEVELOPMENT

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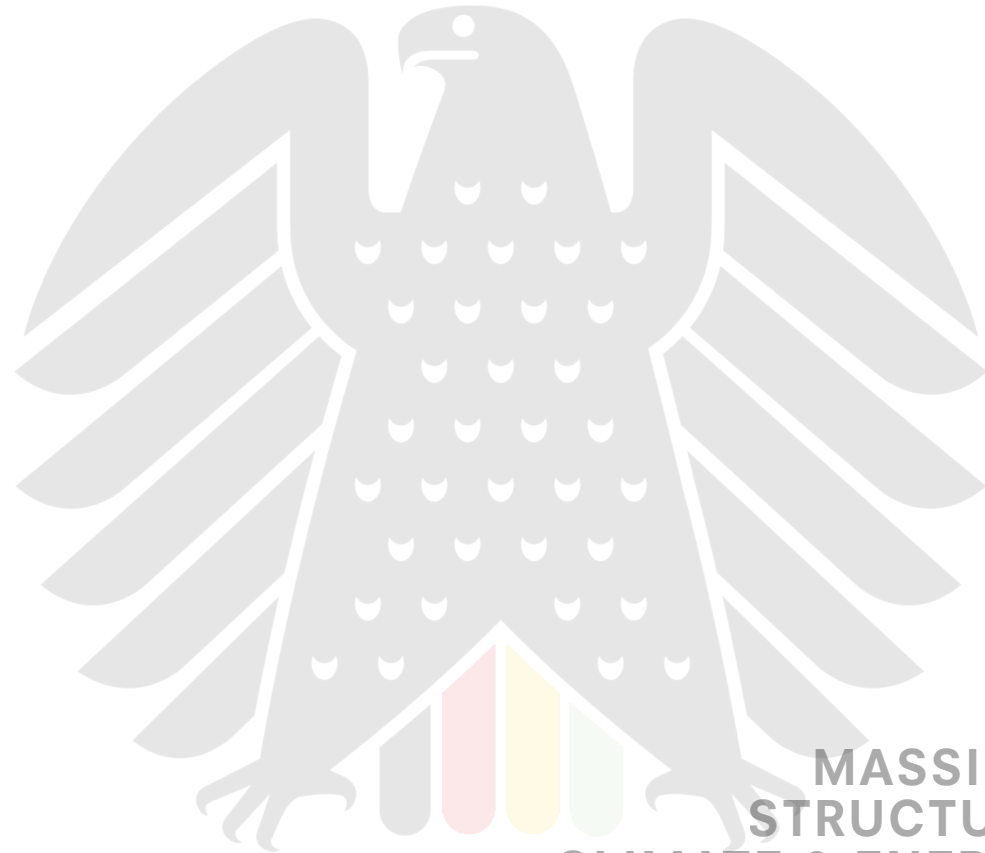
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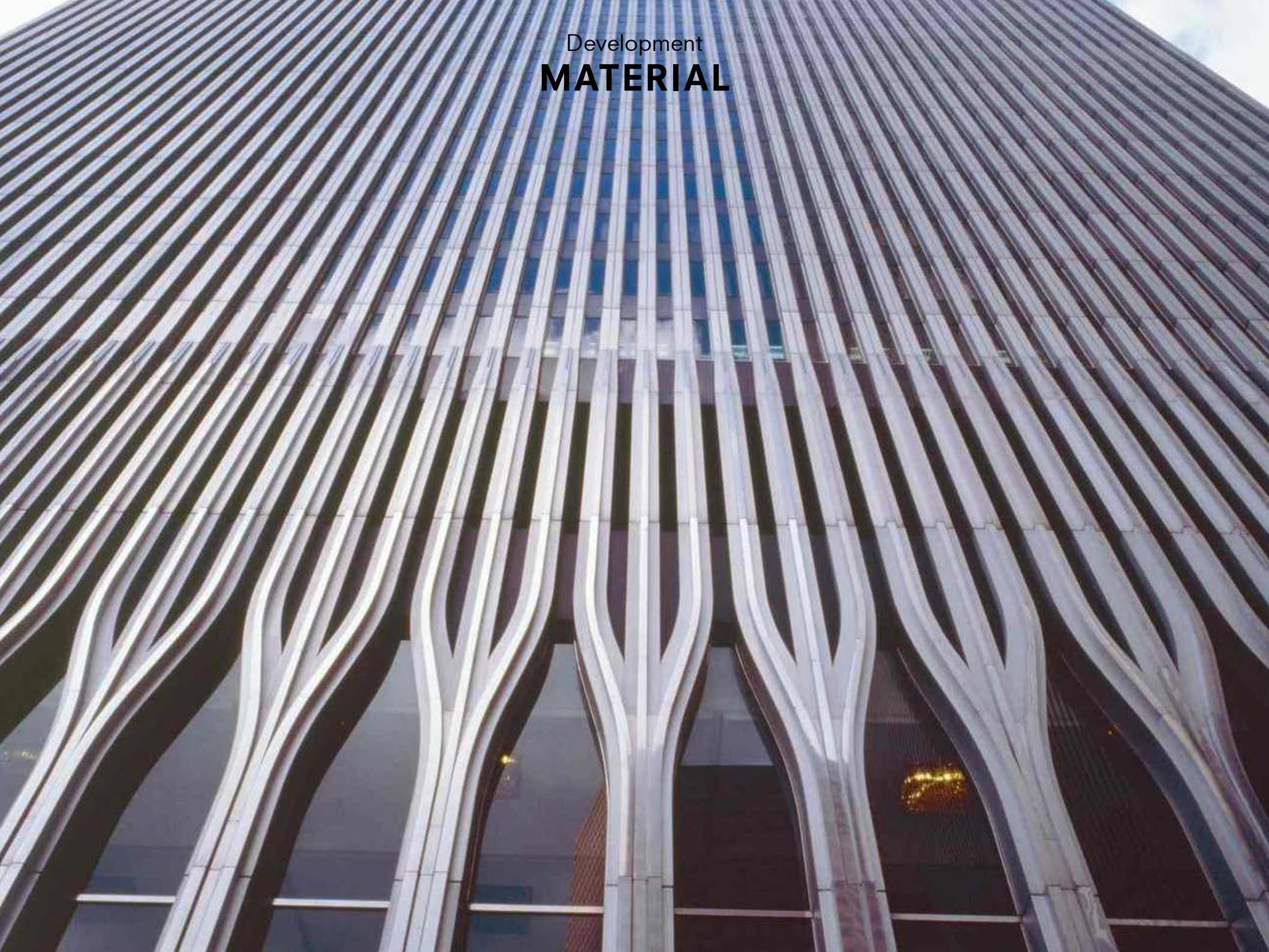


MASSING
STRUCTURE
CLIMATE & ENERGY
DETAILING
MATERIAL

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Development
MATERIAL



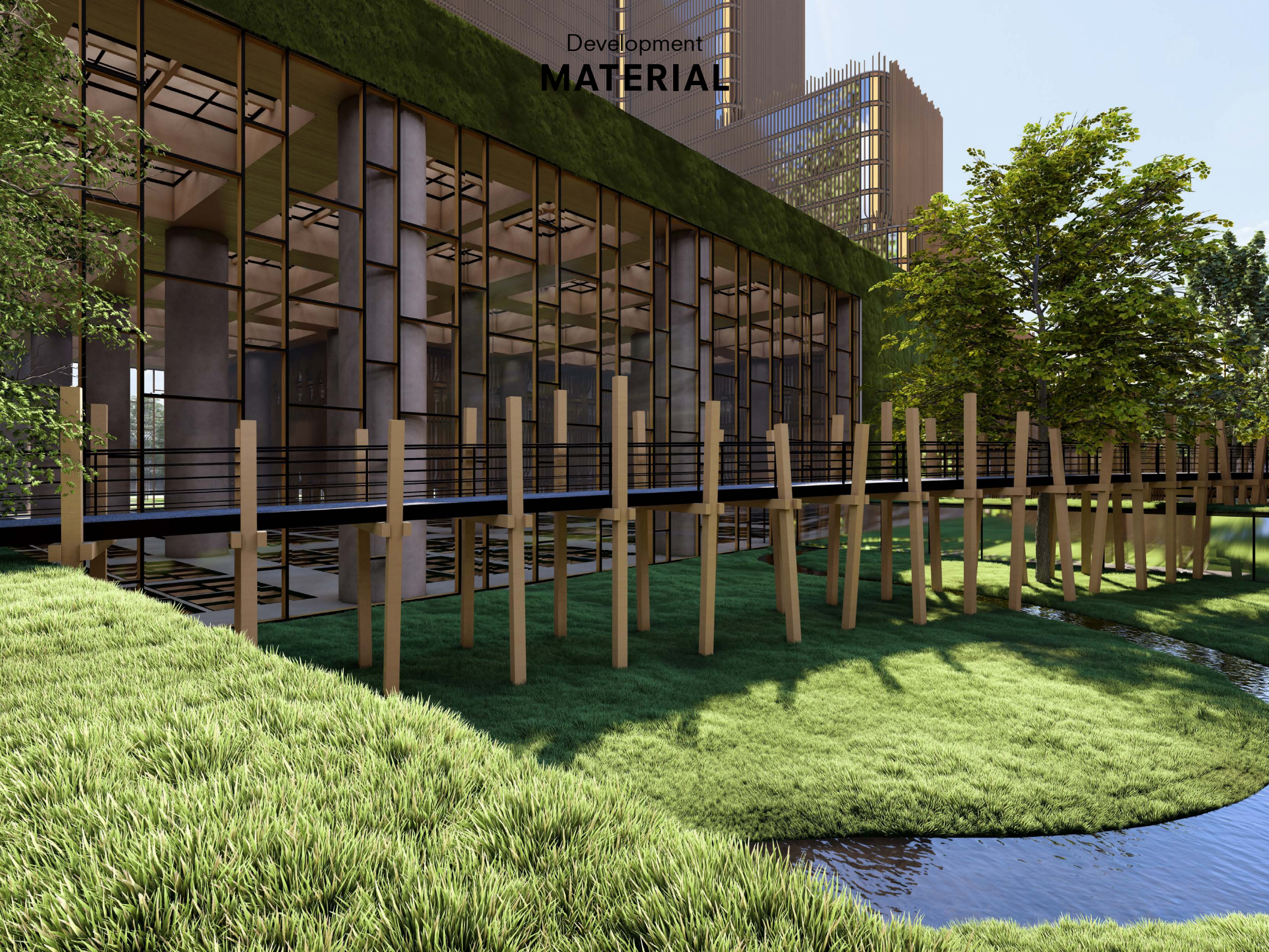
Development
MATERIAL



Development
MATERIAL



Development
MATERIAL



Development
MATERIAL



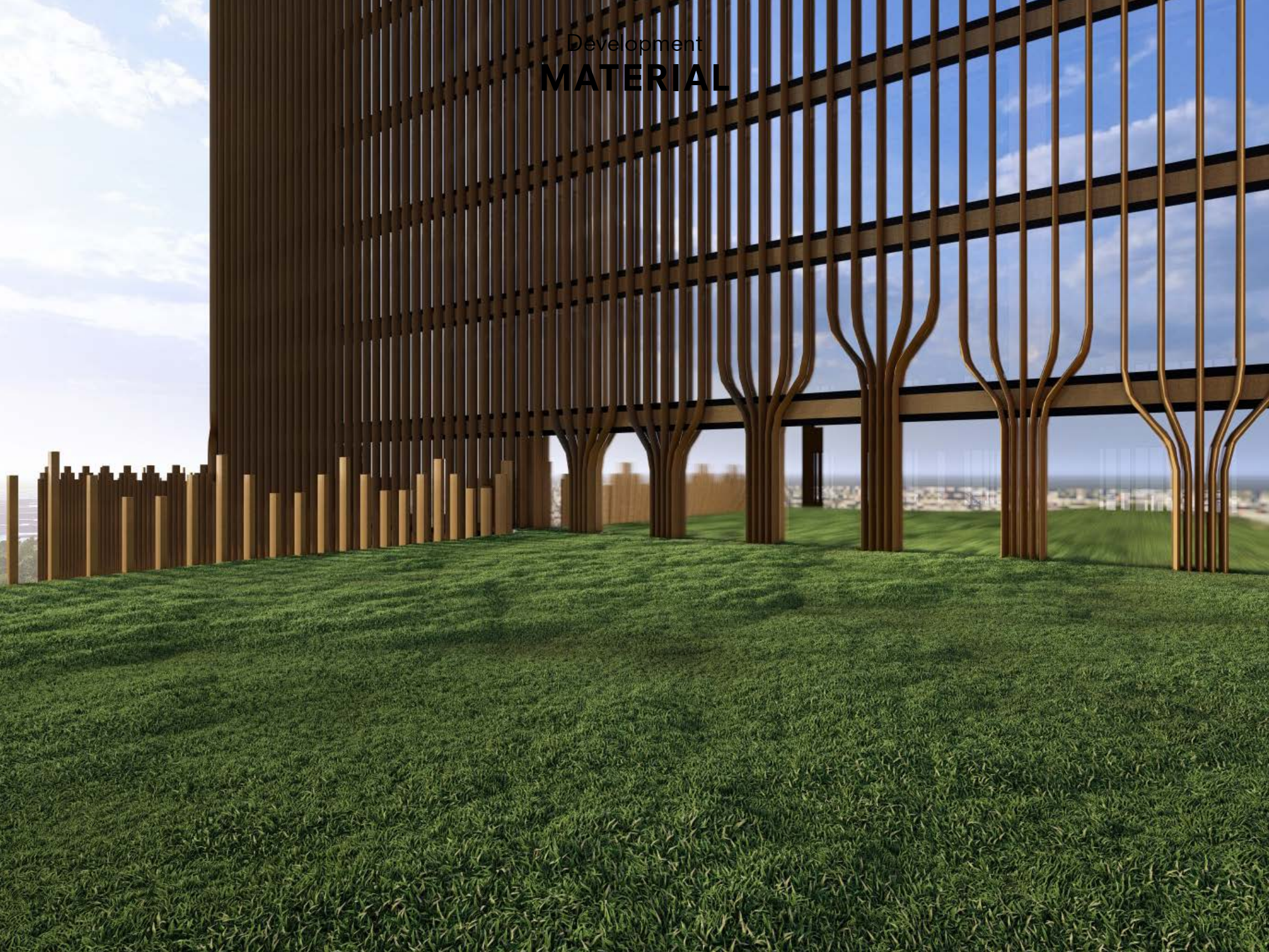
Development
MATERIAL



Development
MATERIAL



Development
MATERIAL



CONCLUSION



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CONCLUSION

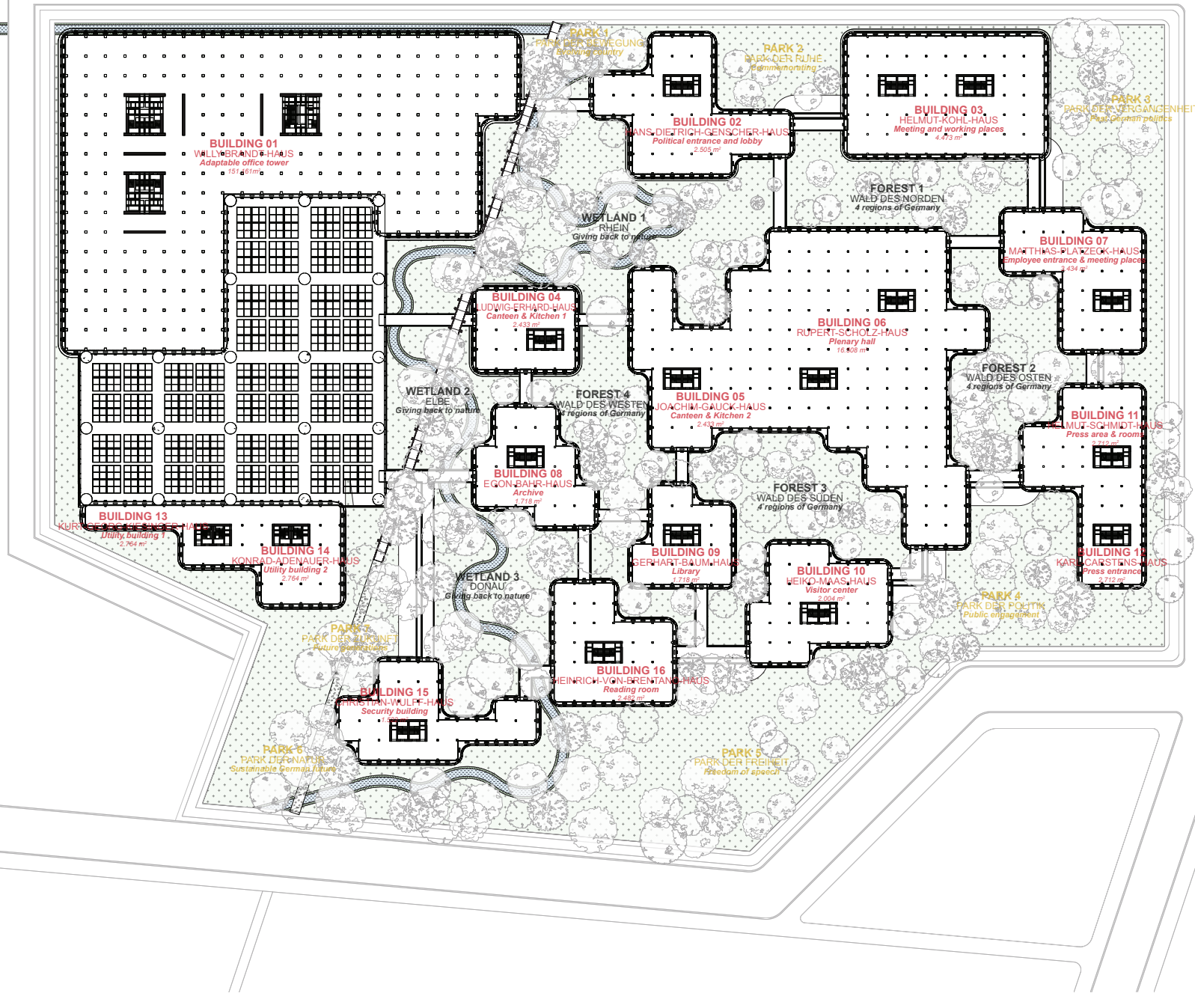


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ANSWER RESEARCH QUESTION

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ANSWER RESEARCH QUESTION



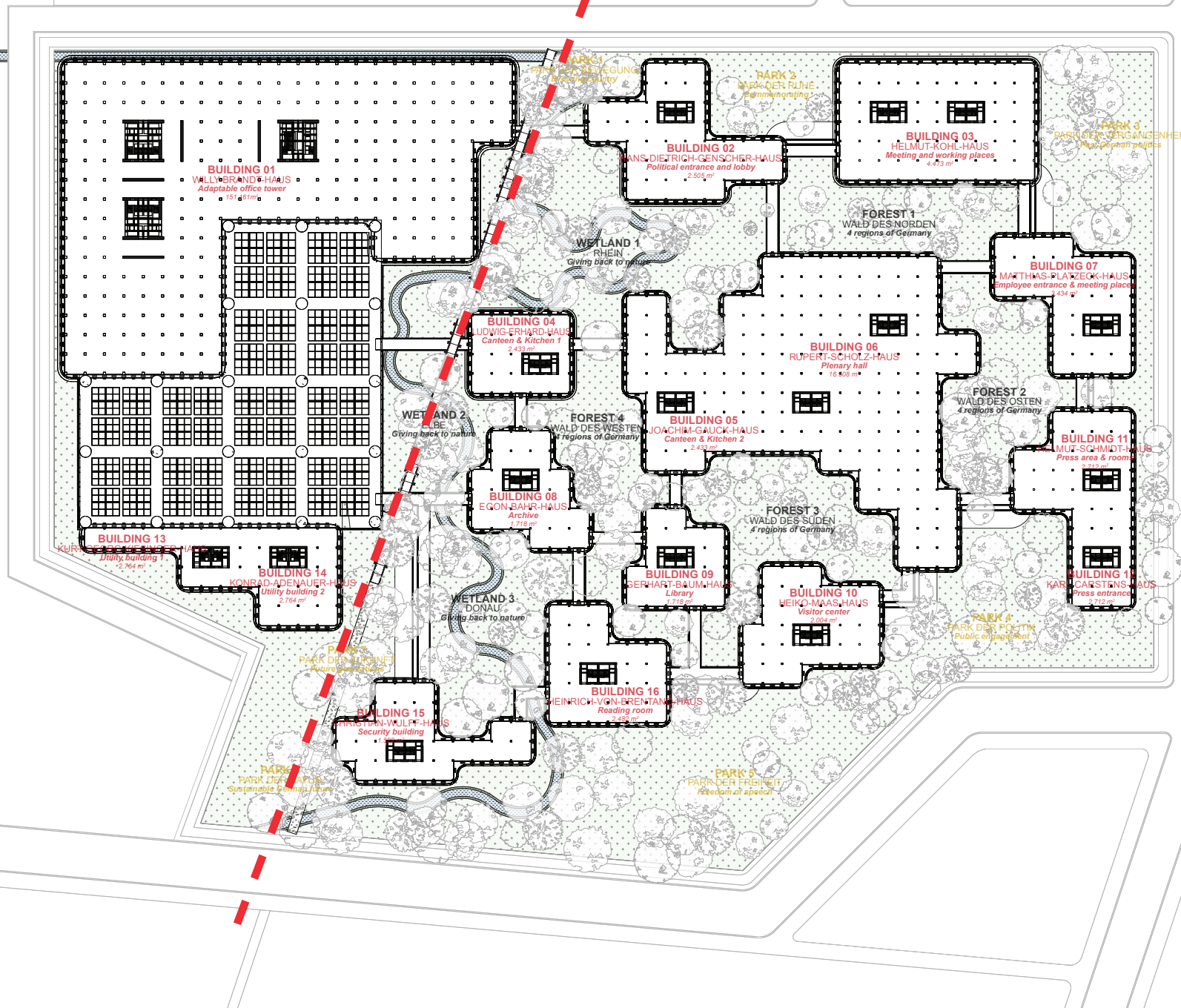
URBAN IMPLEMENTATION

Printed scale 1:1.000

Level of detail 1:500



ANSWER RESEARCH QUESTION



URBAN IMPLEMENTATION

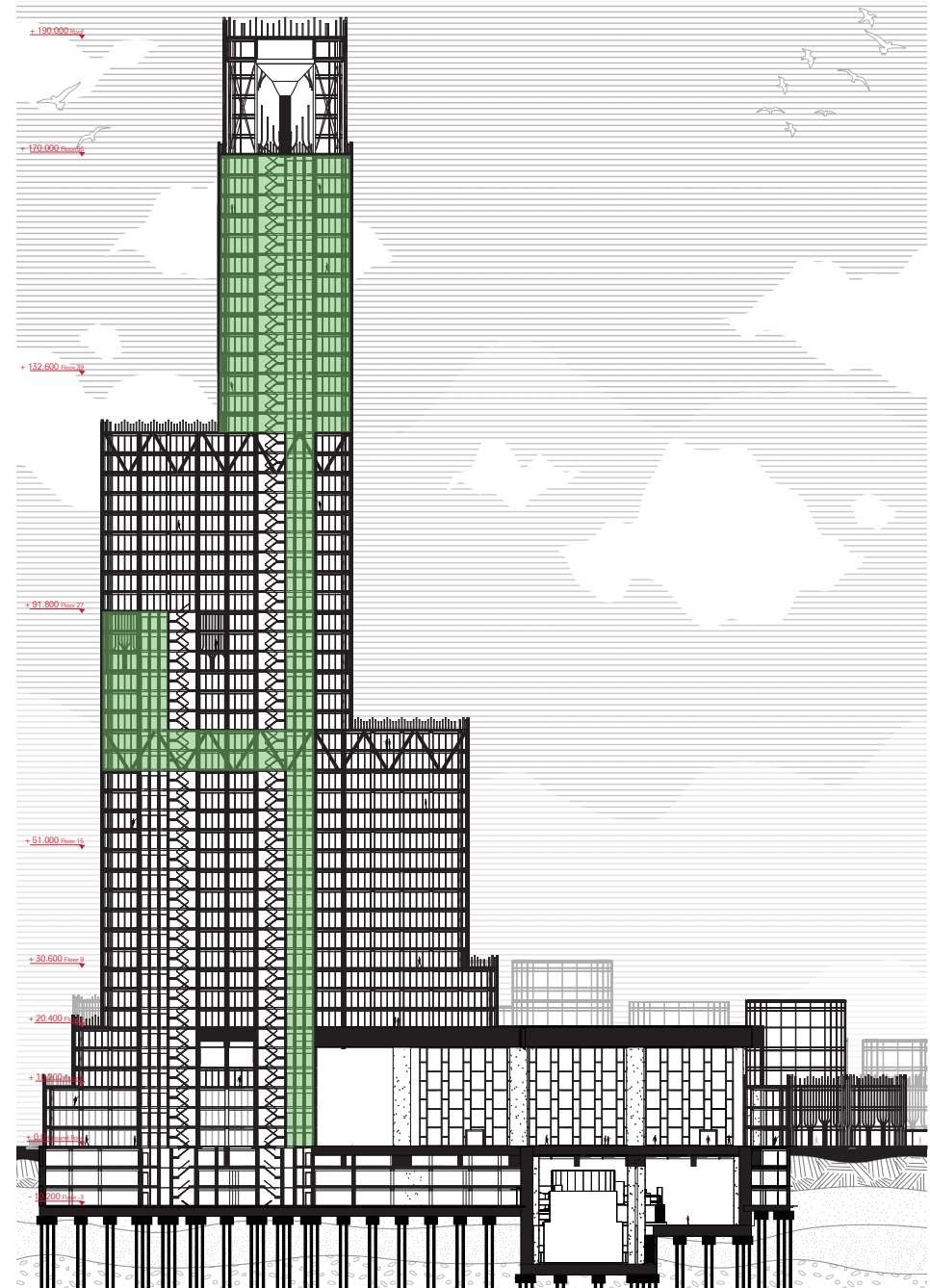
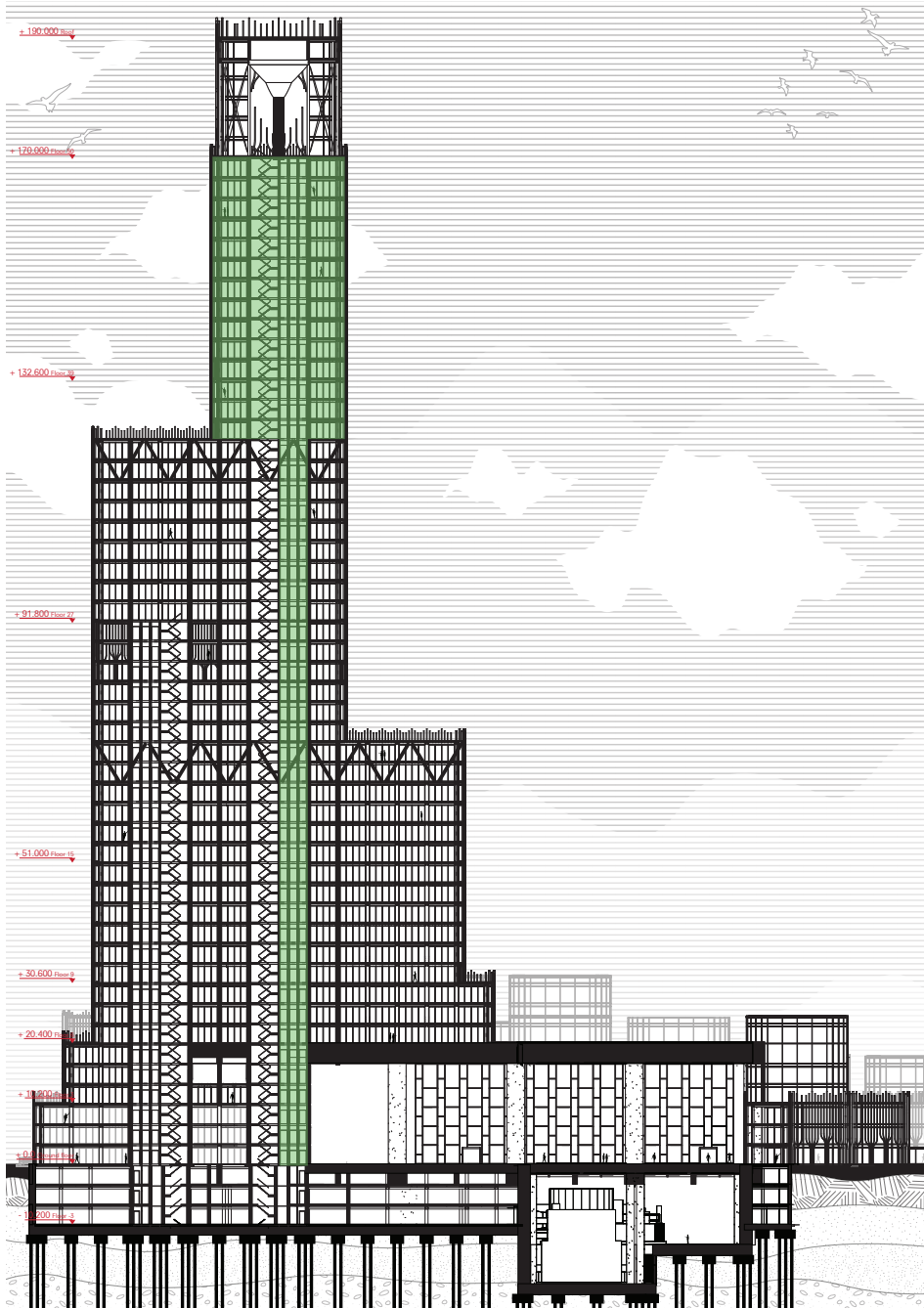
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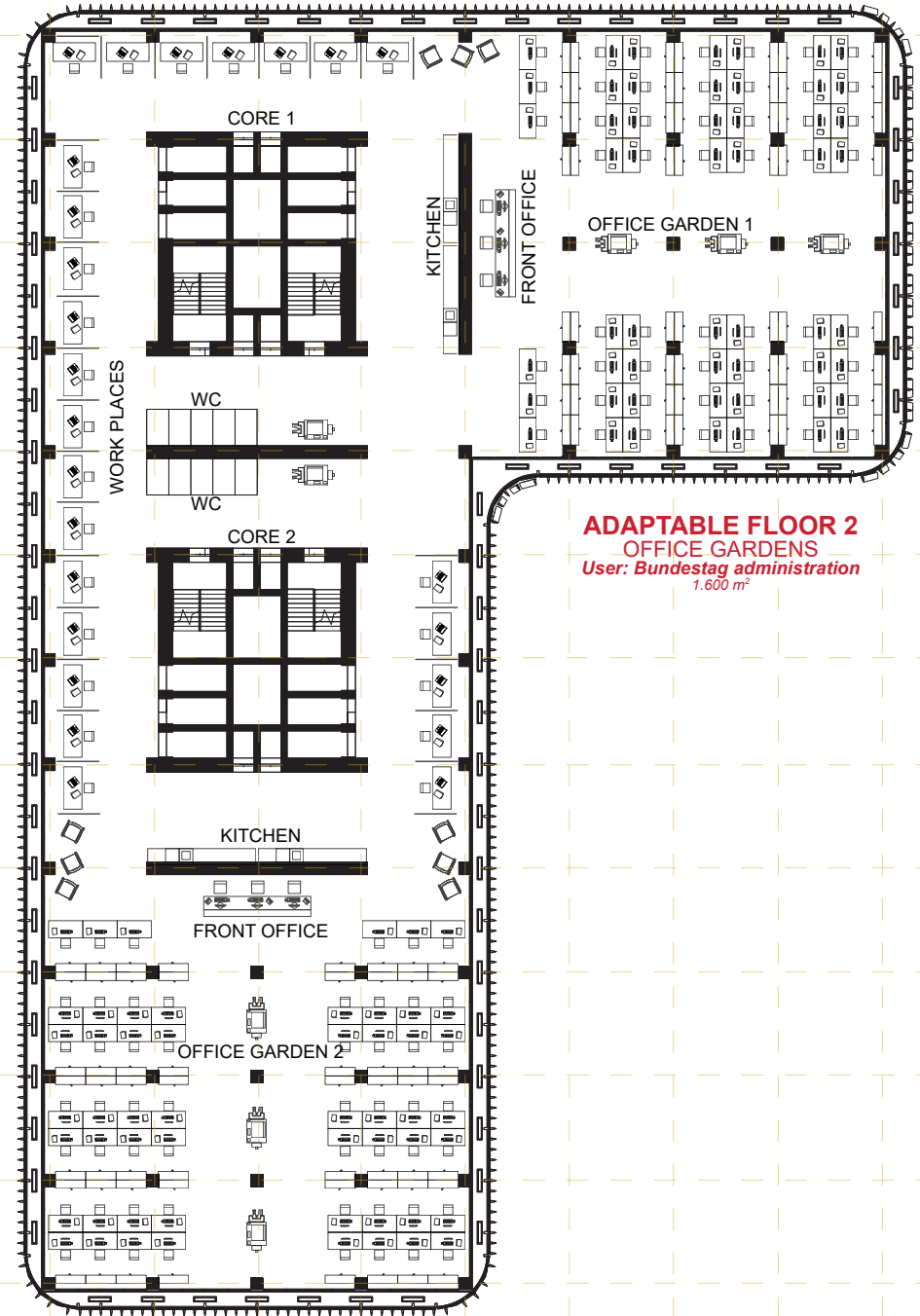
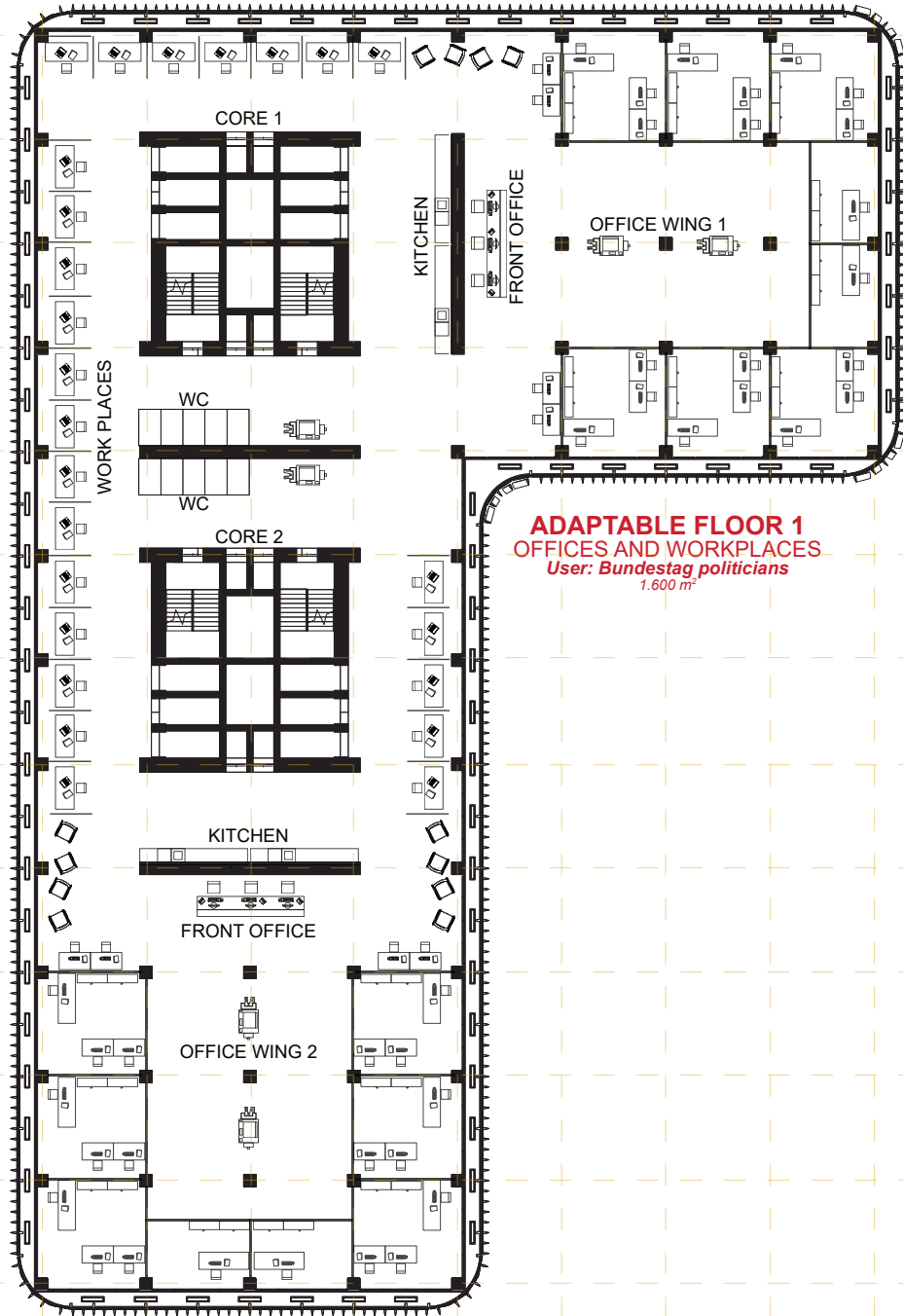


Conclusion

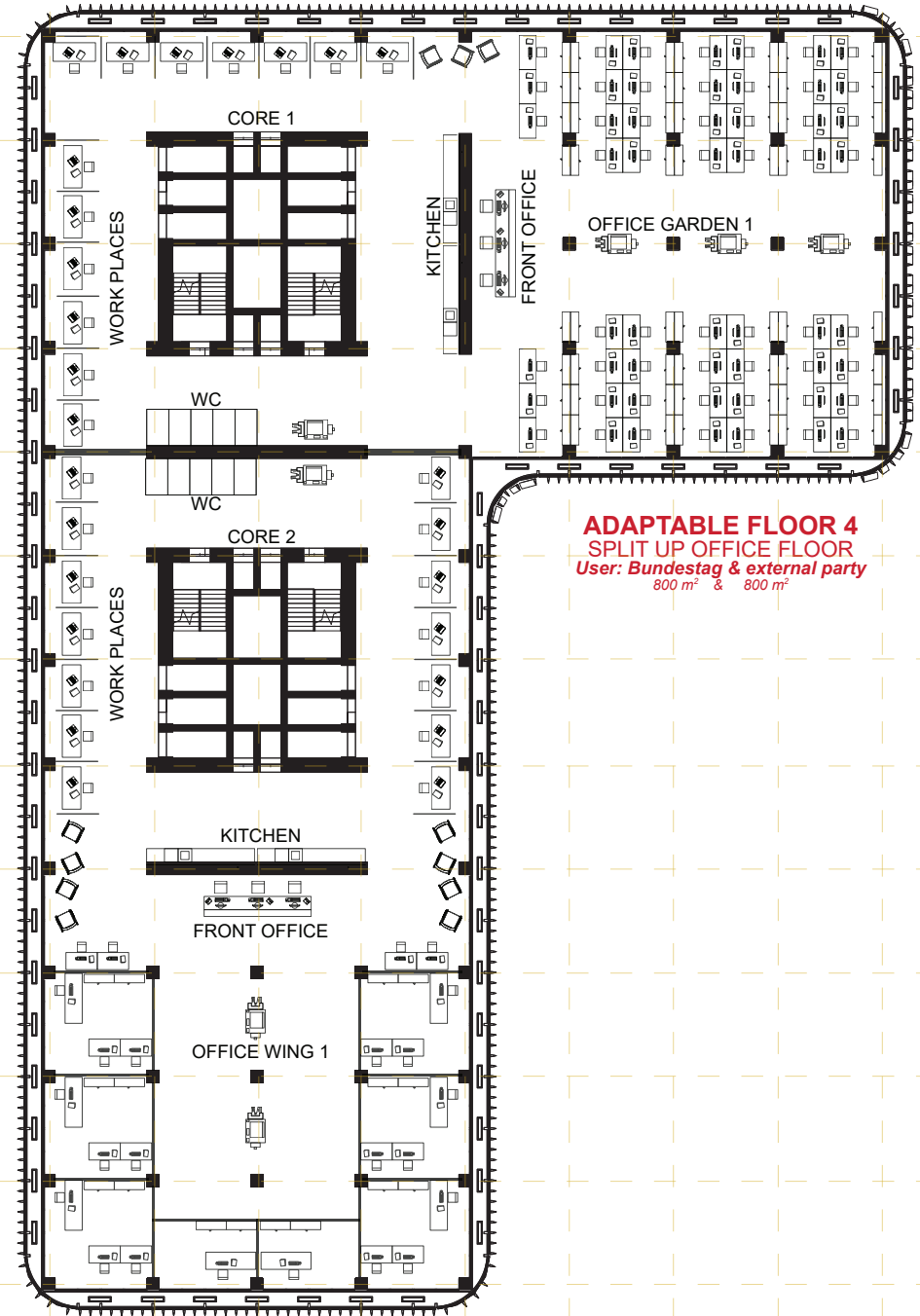
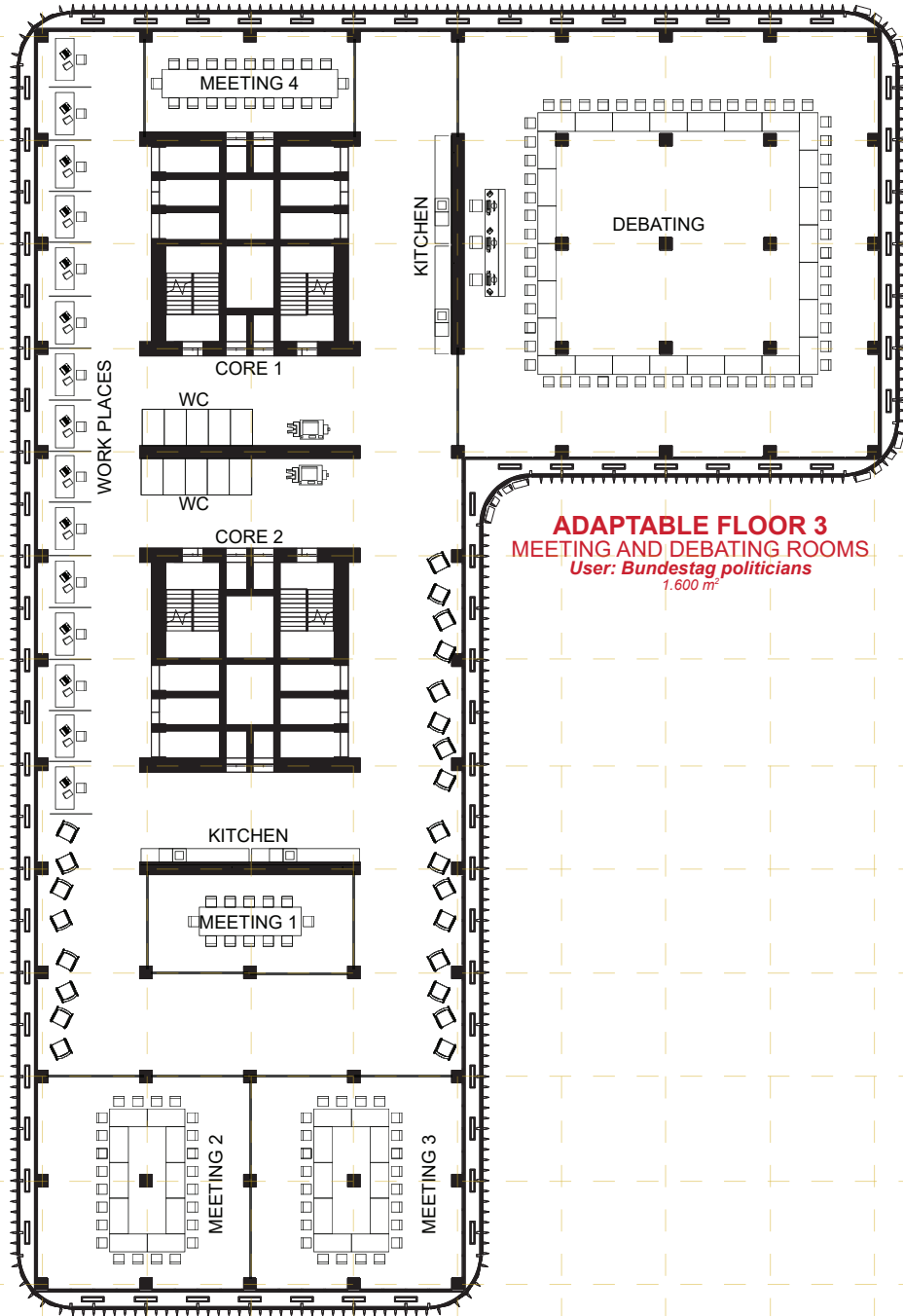
ANSWER RESEARCH QUESTION



Conclusion

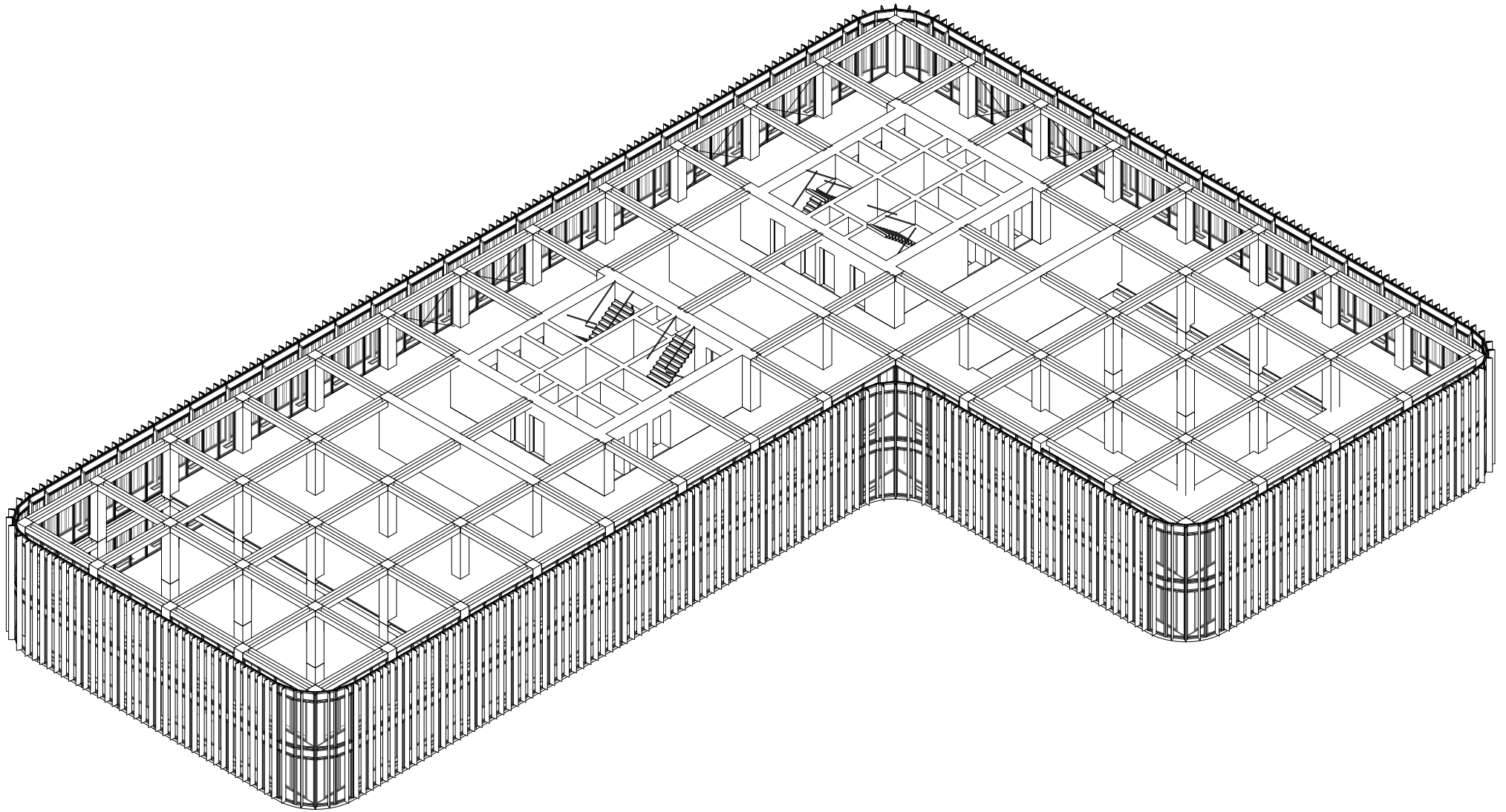


Conclusion



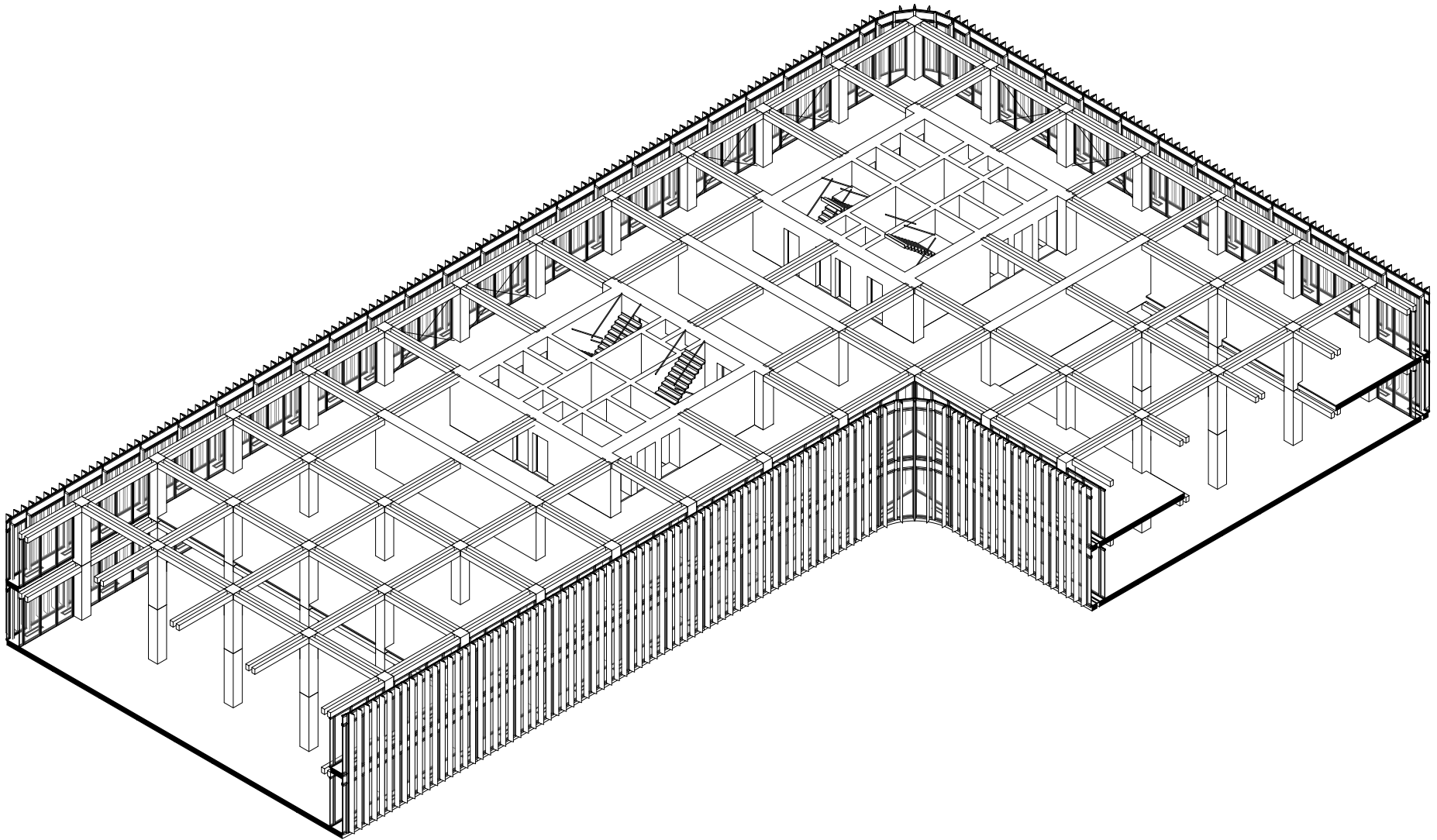
Conclusion

ANSWER RESEARCH QUESTION



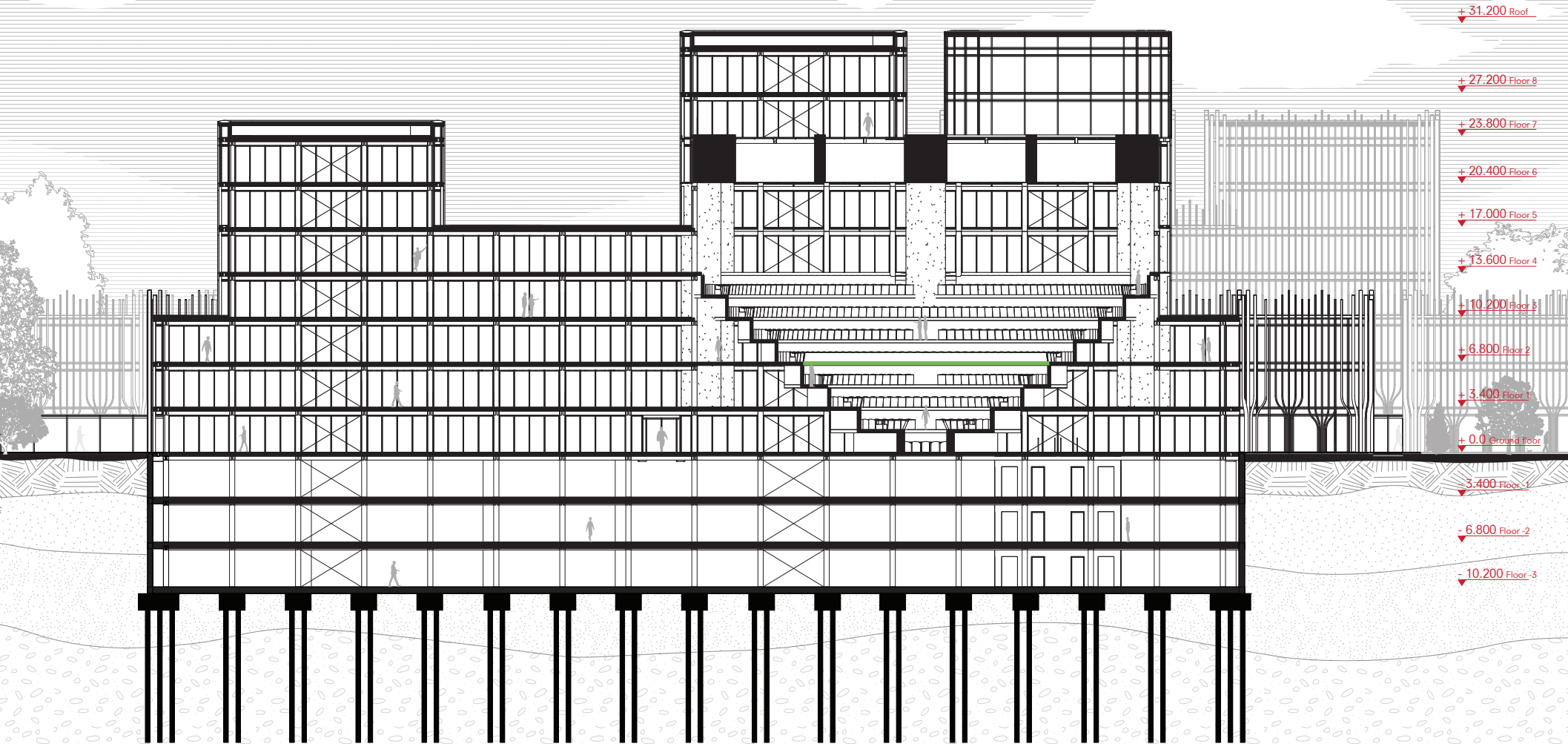
Conclusion

ANSWER RESEARCH QUESTION



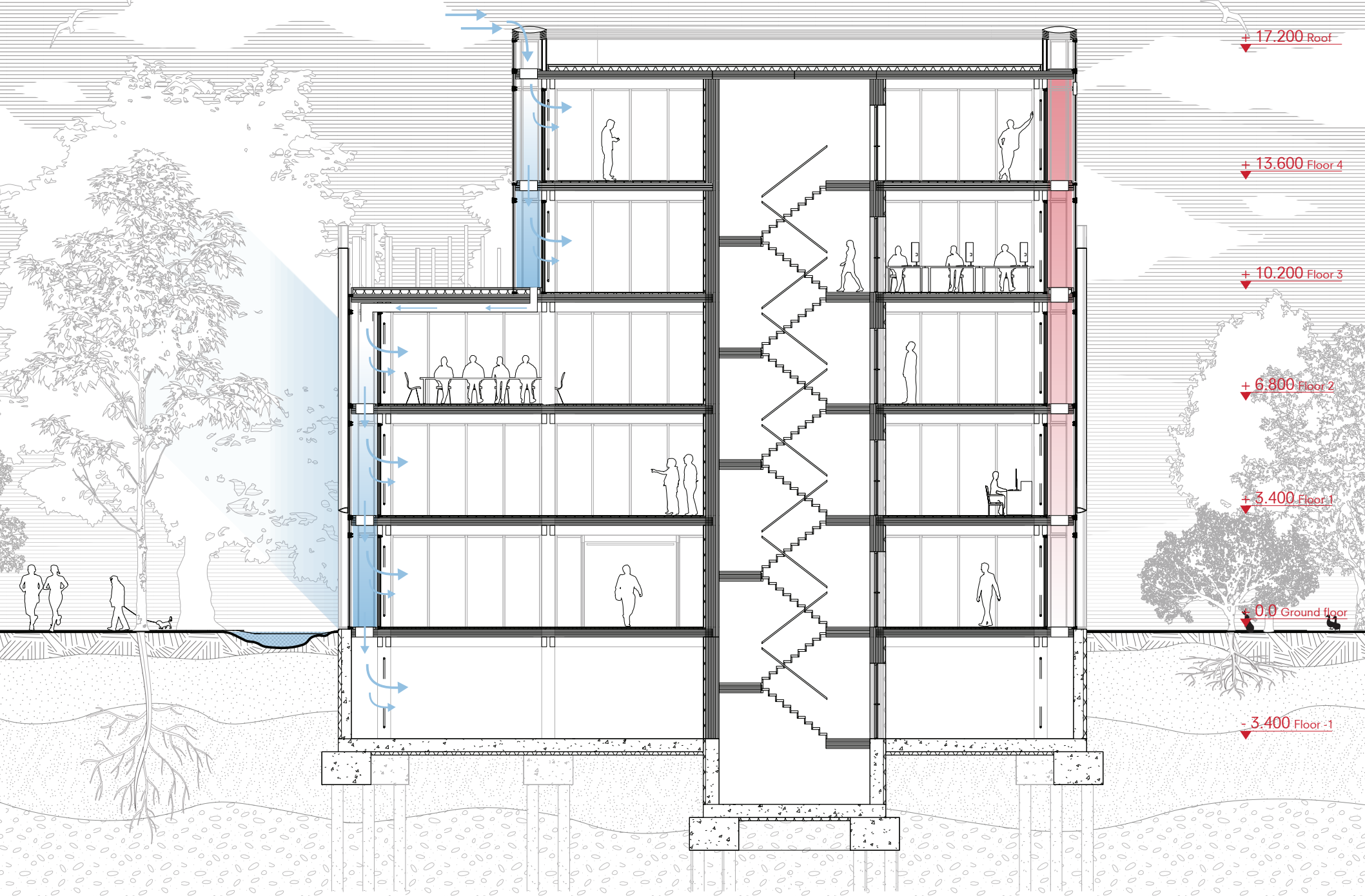
Conclusion

ANSWER RESEARCH QUESTION



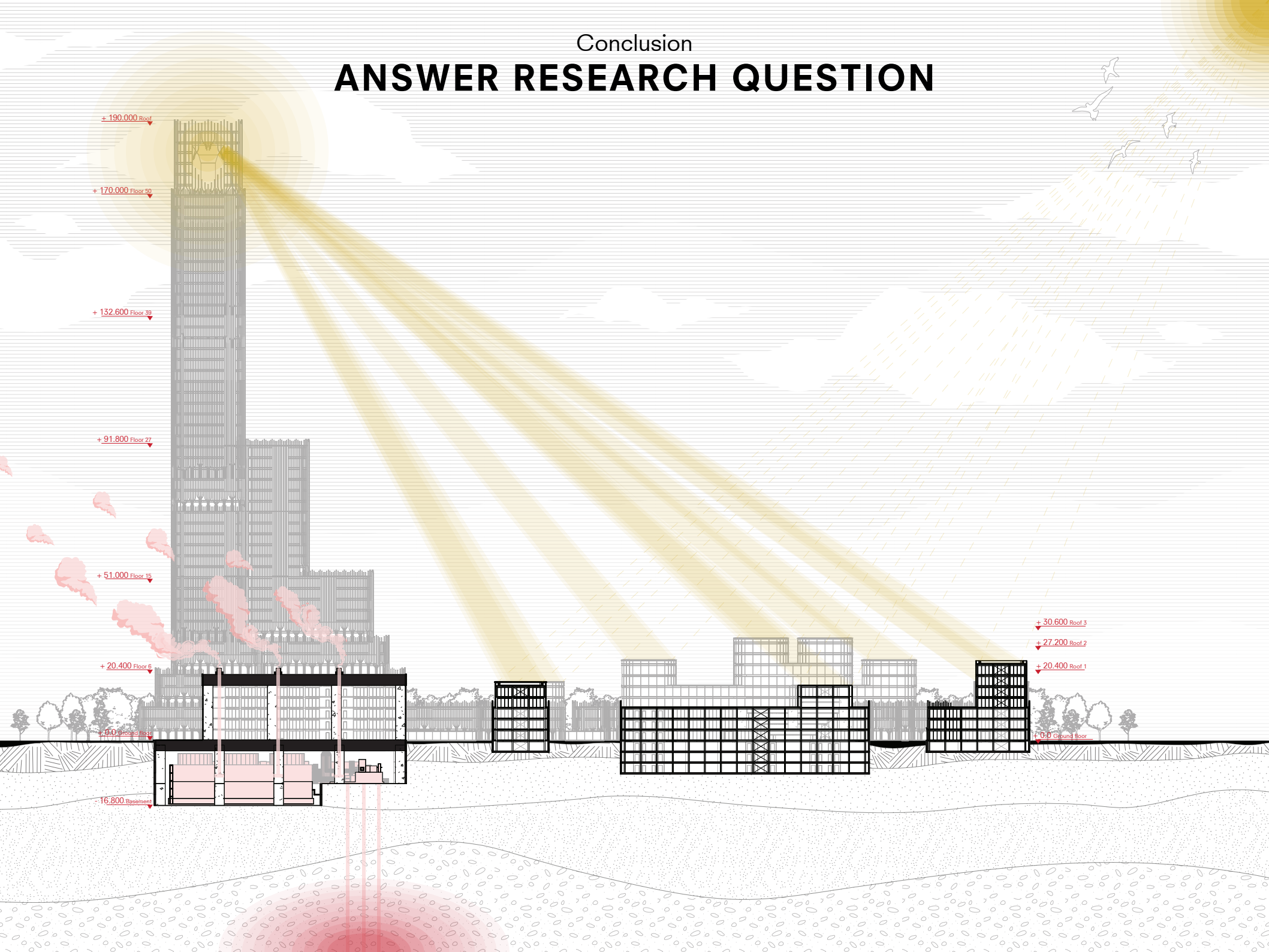
Conclusion

ANSWER RESEARCH QUESTION



Conclusion

ANSWER RESEARCH QUESTION



An architectural rendering of a modern building complex. In the background, a tall, slender tower with a textured, metallic facade and a decorative top section rises against a blue sky with wispy clouds. In the foreground, a large, low-profile building with a green, vegetated roof and glass walls is visible. To the right, another building with a curved facade and vertical slats is partially obscured by lush green trees. A small, winding stream flows through a grassy area in the foreground. The overall scene is bright and sunny, with vibrant green foliage and a clear blue sky.

COMPLEX PROJECTS

ADAPTABLE BUNDESTAG COMPLEX

P5 Graduation presentation

ing. J.C.L. Leroy Göres

04/07/2024