COMPLEX PROJECTS NEW EUROPEAN PARLIAMENT

P5 Tudor Cosma 03/07/2023 index

1. INTRODUCTION

- 2. RESEARCH
- 3. DESIGN BRIEF
- 4. CONCEPT
- 5. IMPLEMENTATION
- 6. **DEVELOPMENT**
- 7. CHAMBER
- 8. CONCLUSION



introduction
INFORMATION SOCIETY

introduction INFORMATION PROBLEMS



introduction

CONSEQUENCES OF MISINFORMATION



introduction **PROBLEM STATEMENT**

With an increasing reliance on the immaterial world provided by the digital, **the parliament as a building typology** is in need of a **re-evaluation**.

introduction **RESEARCH QUESTION**

How can a **parliament** building actively engage with the

public in an information society?

complex

introduction **PARLIAMENT OF THE PEOPLE**

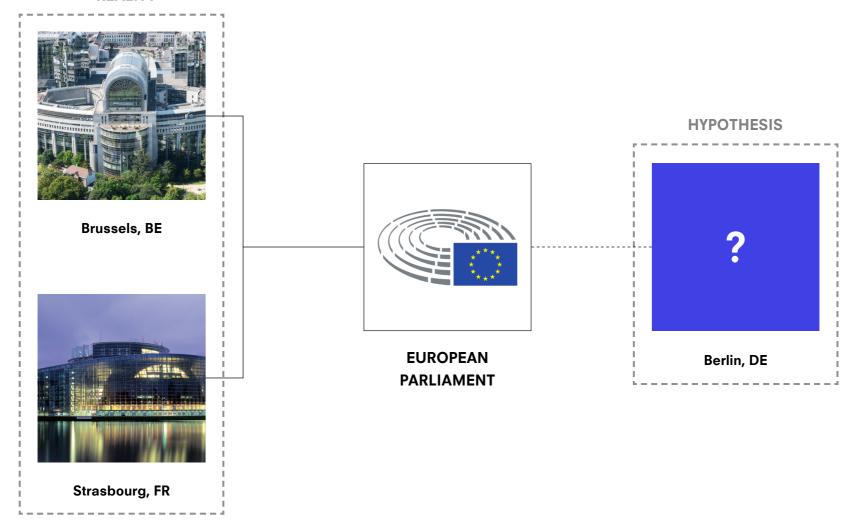


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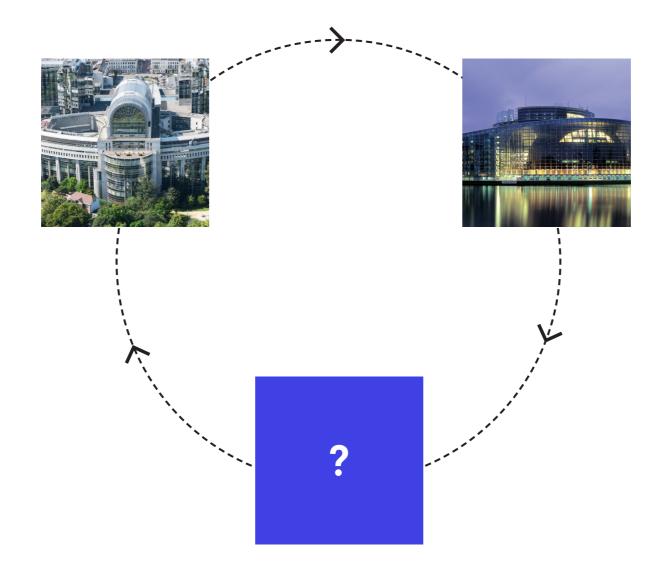
- 1. INTRODUCTION
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EXPERIMENT

REALITY



EXPERIMENT

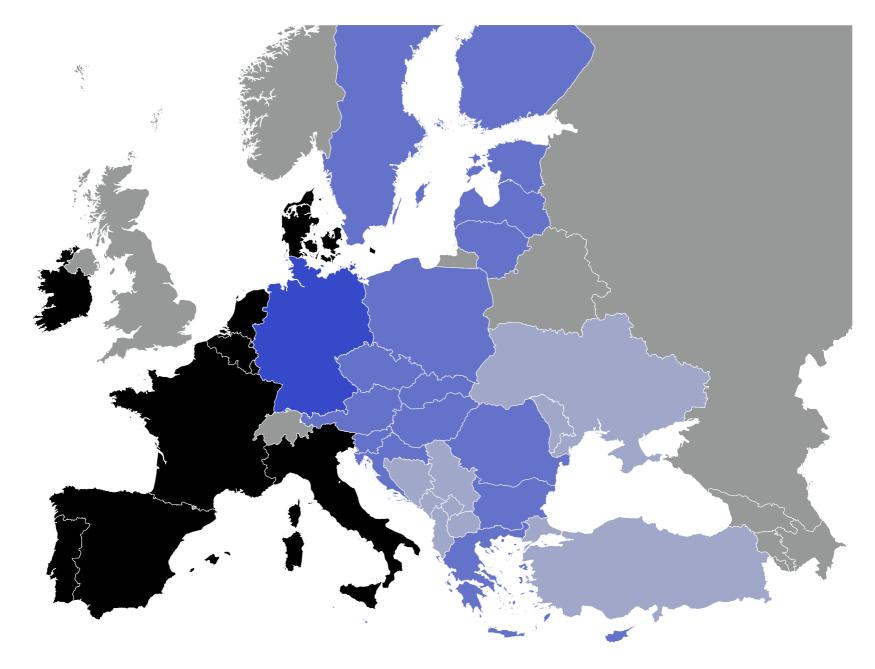




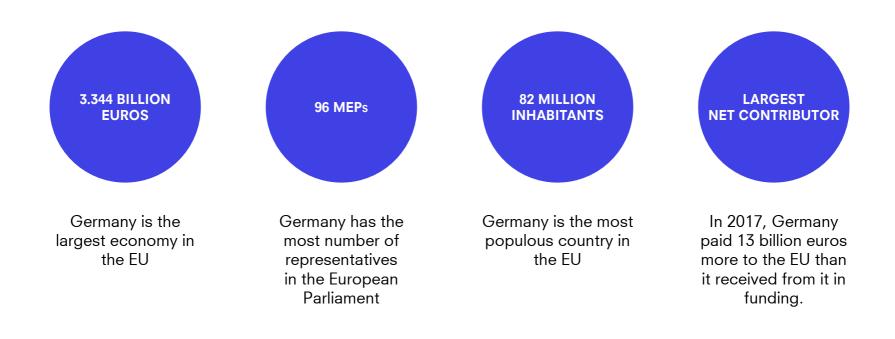
Why should Germany host a new European Parliament

building in Berlin?

GATE TO THE WEST



research FACTS & FIGURES



source: https://www.deutschland.de/en/topic/politics/germanys-role-in-the-eu-ten-facts-and-figures

research EU LEADERSHIP

Kom

110

TEN

ai Bizottsá

éenne

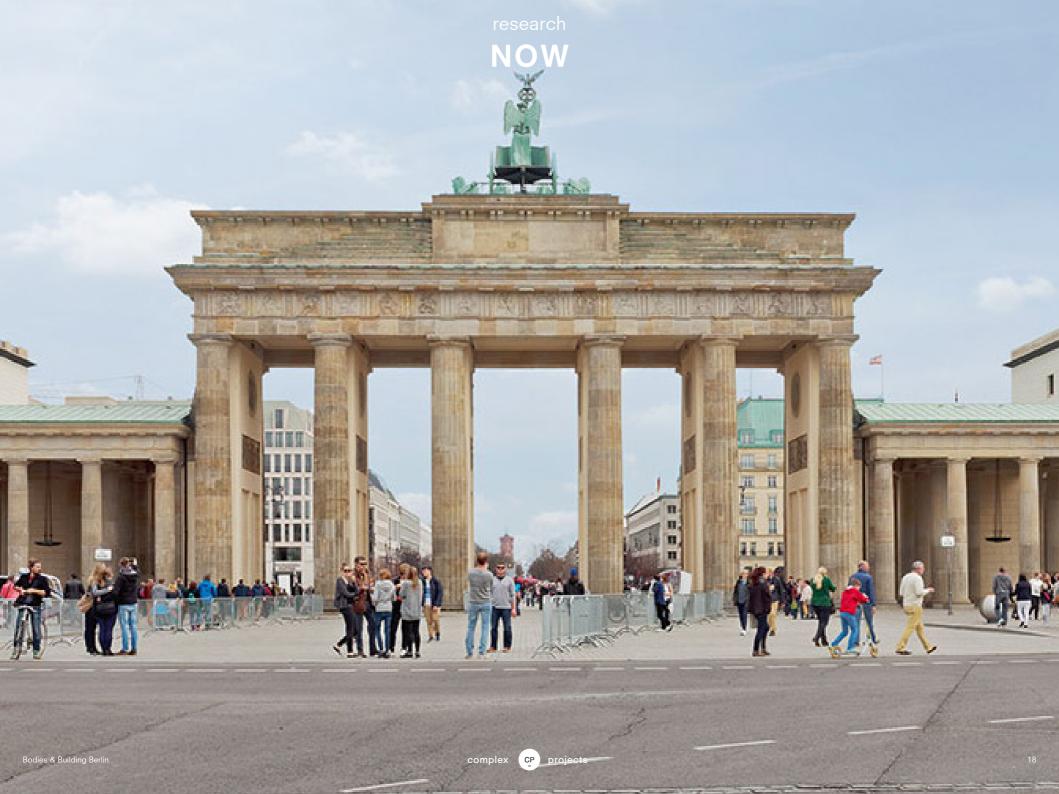
20

Due to Germany's leadership in multiple European departments, it can be argued that it has become the de facto **political leader of the EU**.

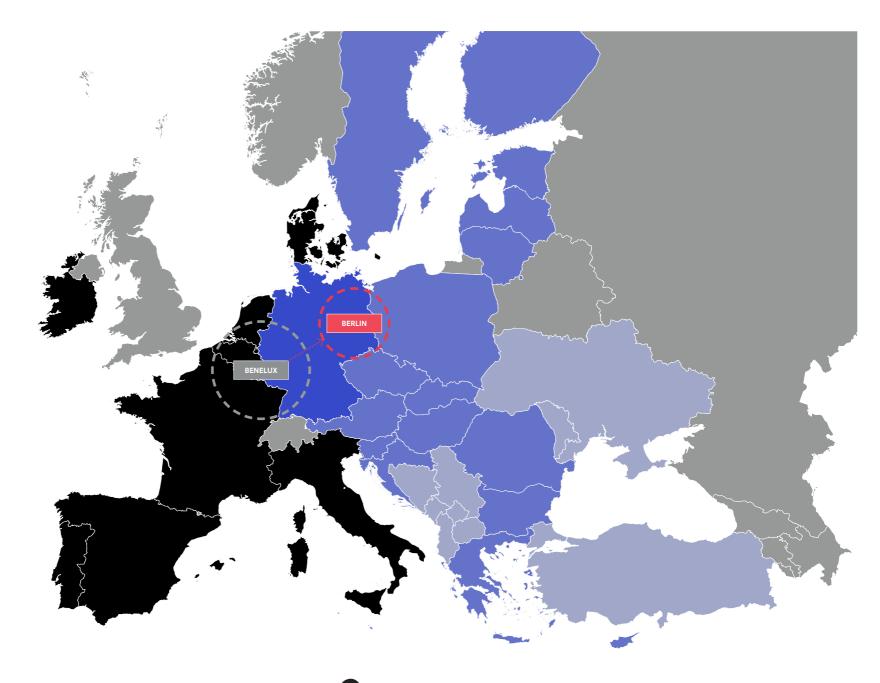
CP project

complex





research SPREADING OUT



research WHAT IS A PARLIAMENT?

Cambridge Dictionary:

parliament (noun) /'pɑ:.lɪ.mənt/ in some countries, the group of (usually) elected politicians or other people who make the laws for their country

parliament

space which houses the eponymous legislative body of government







research DEMOCRACY



17

complex CP projects

AND AL

24

research **TOWER OF BABEL**





INSPIRATION

MATERIALIZATION









complex CP projects

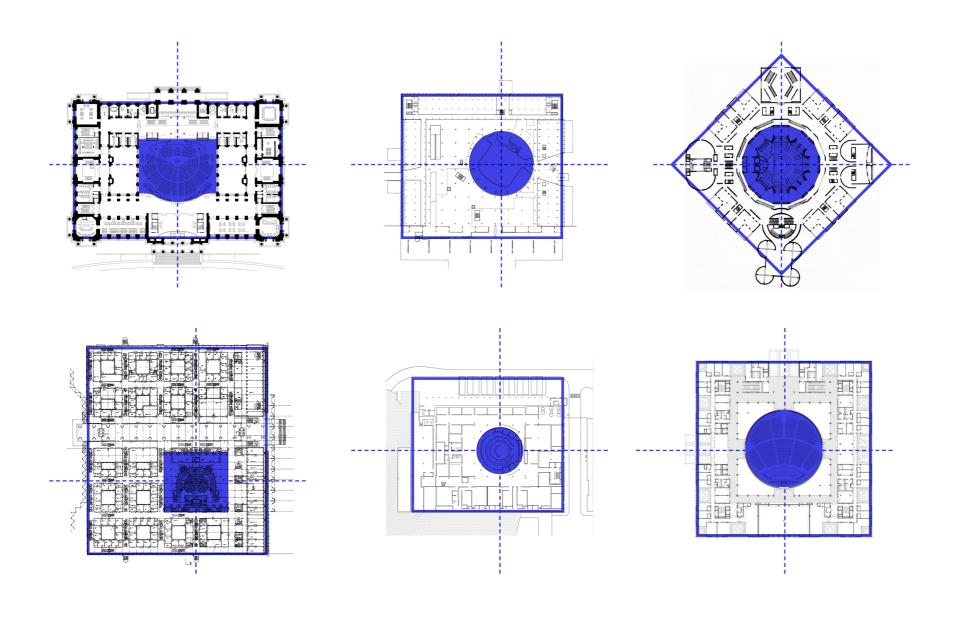
research DEBATE CHAMBER

DEBATE CHAMBER

11

Building Berlin

research HEART OF THE BUILDING



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:			÷	÷		:		:	:
									:
									:
		:	÷	÷		:		:	
1793	1876	1883	1904	1958	1962	1982	1999	2005	2008

AGRARIAN

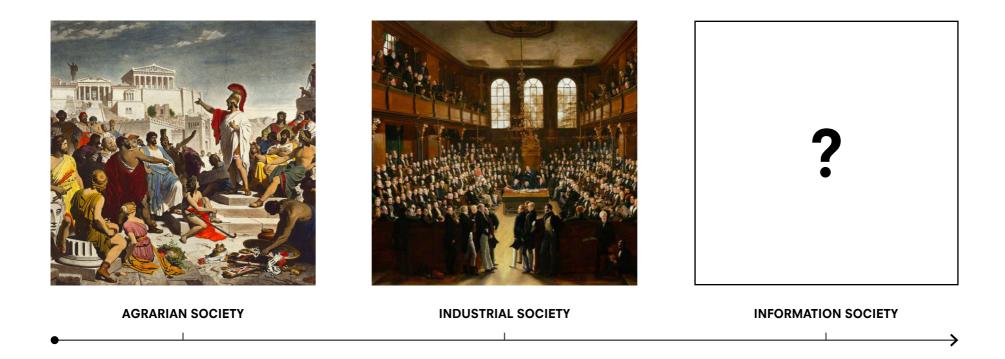
orthogonal composition focus on massive volume ornamental dome revivalist style

INDUSTRIAL

open plan focus on light and space minimalist design iconic shapes modernist style

INFORMATION

free-form focus on user experience use of glass experimental post-modernist style research **POLITICS THROUGH TIME**

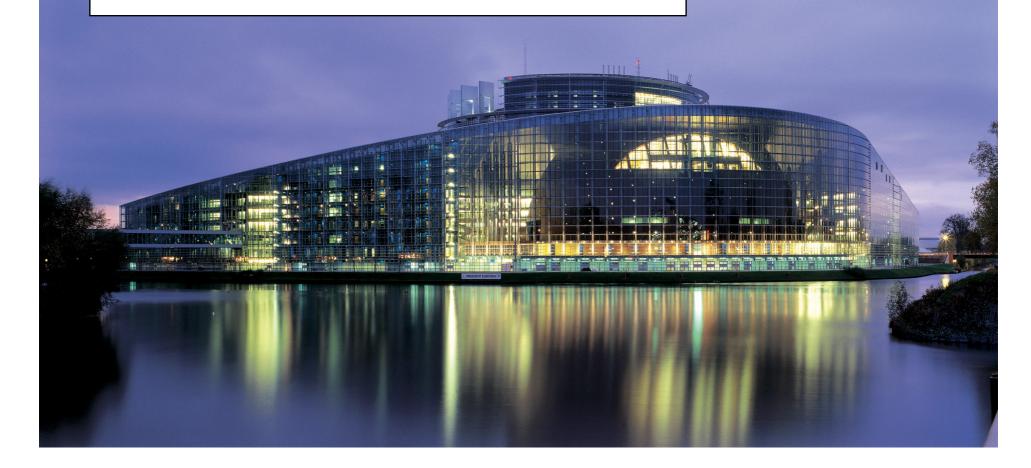


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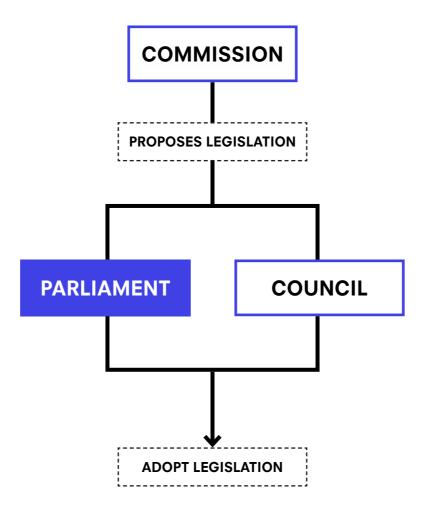
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design brief **PURPOSE**

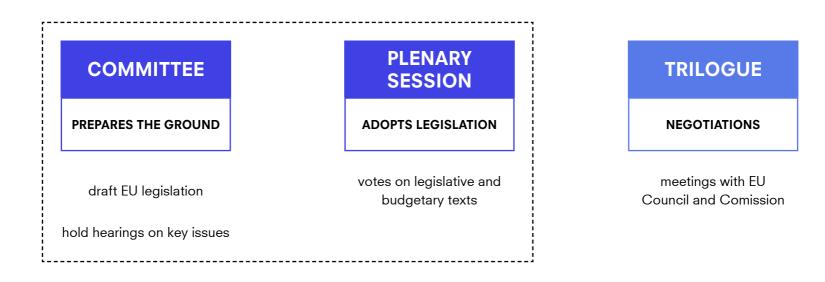
The European Parliament is part of the **legislative process** in the EU. Together with the EU Council, the EP holds the **power to adopt and amend legislative proposals, as well as deciding the EU budget**.



design brief EU LEGISLATIVE PROCEDURE



design brief THE WORK OF THE EP



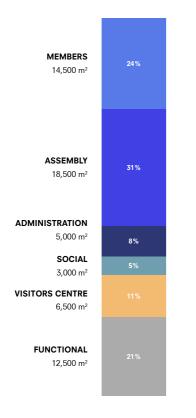
design brief



design brief

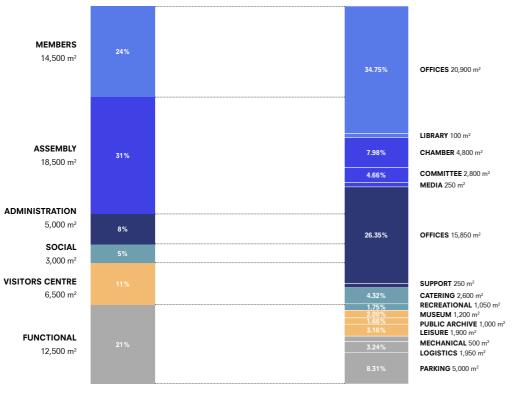


design brief PROGRAM BREAKDOWN



GFA = 60.000 m²

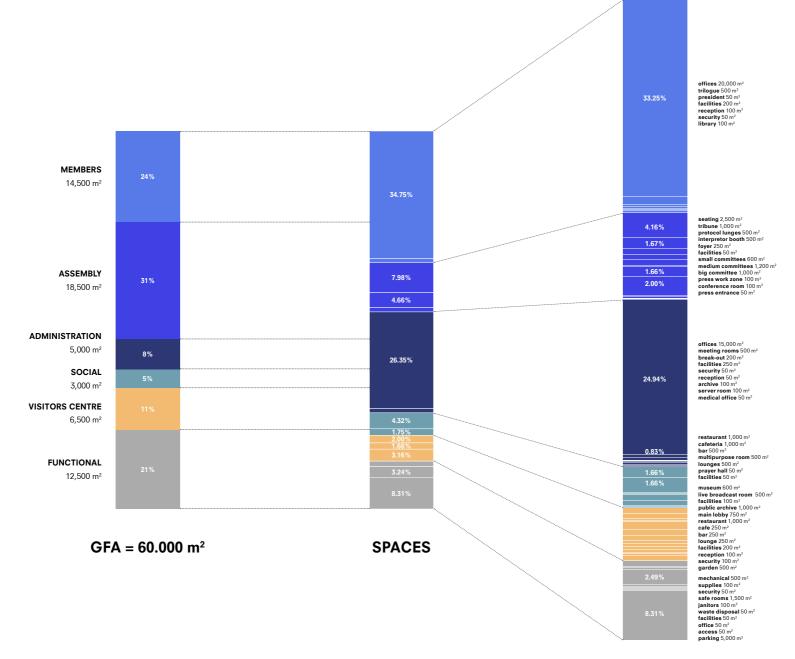
design brief PROGRAM BREAKDOWN



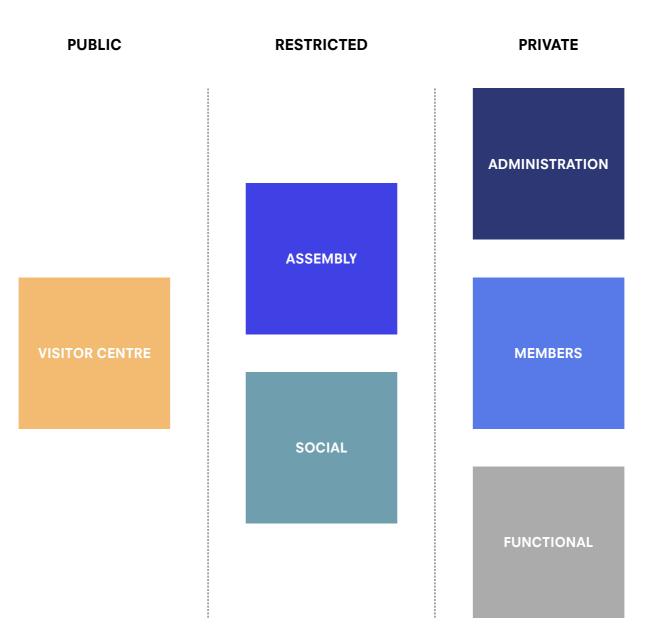
GFA = 60.000 m²

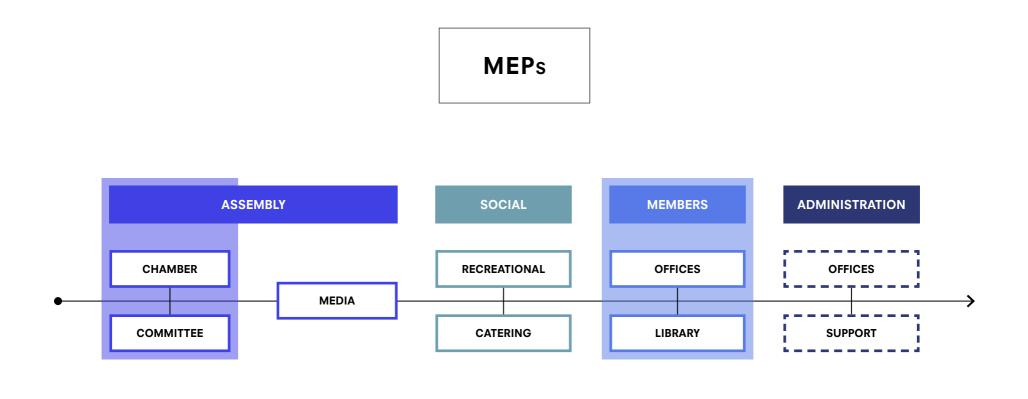
SPACES

design brief PROGRAM BREAKDOWN

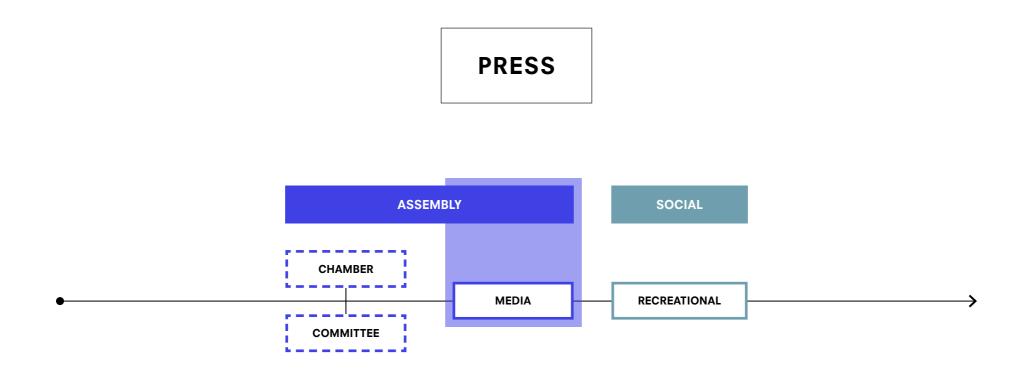


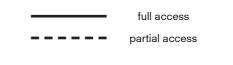
design brief **PRIVACY**

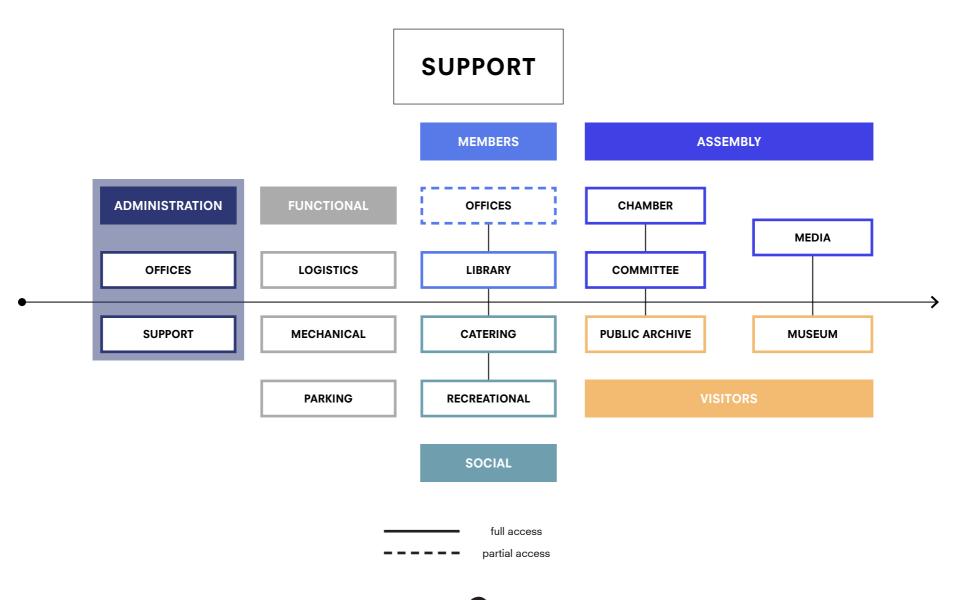


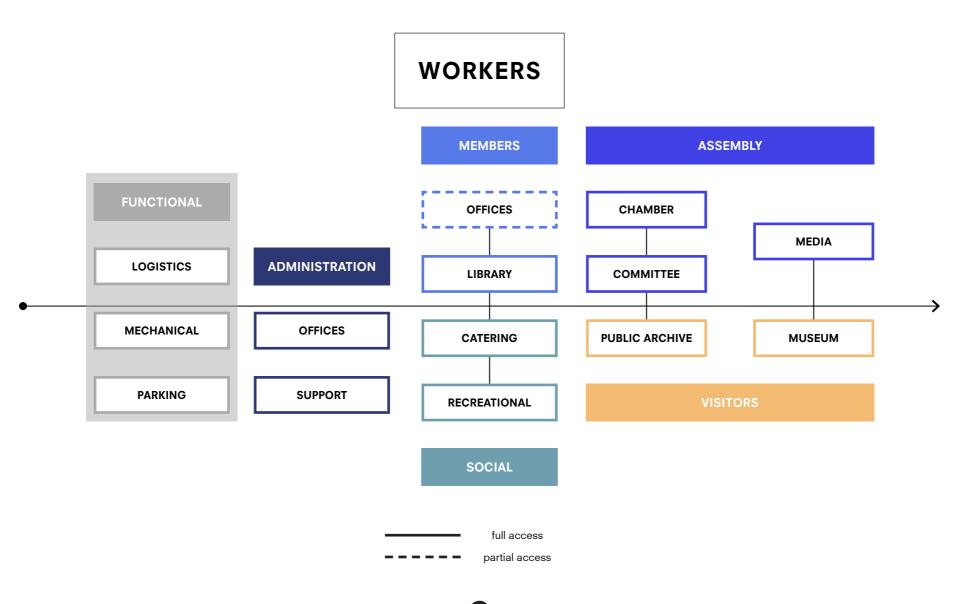


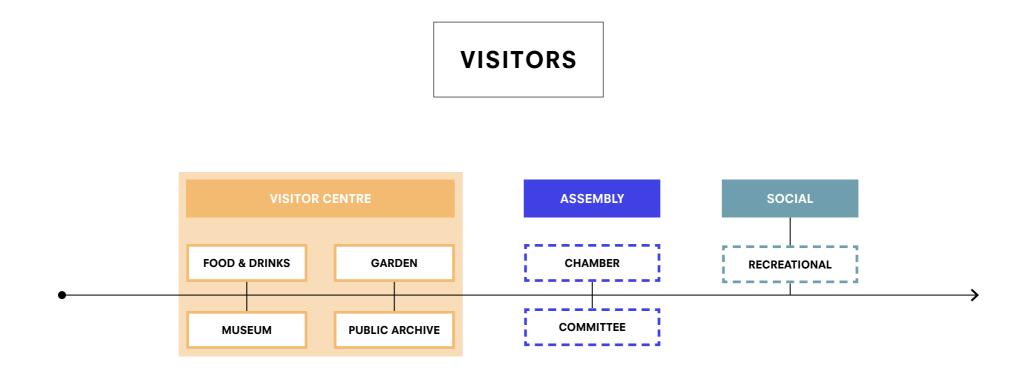






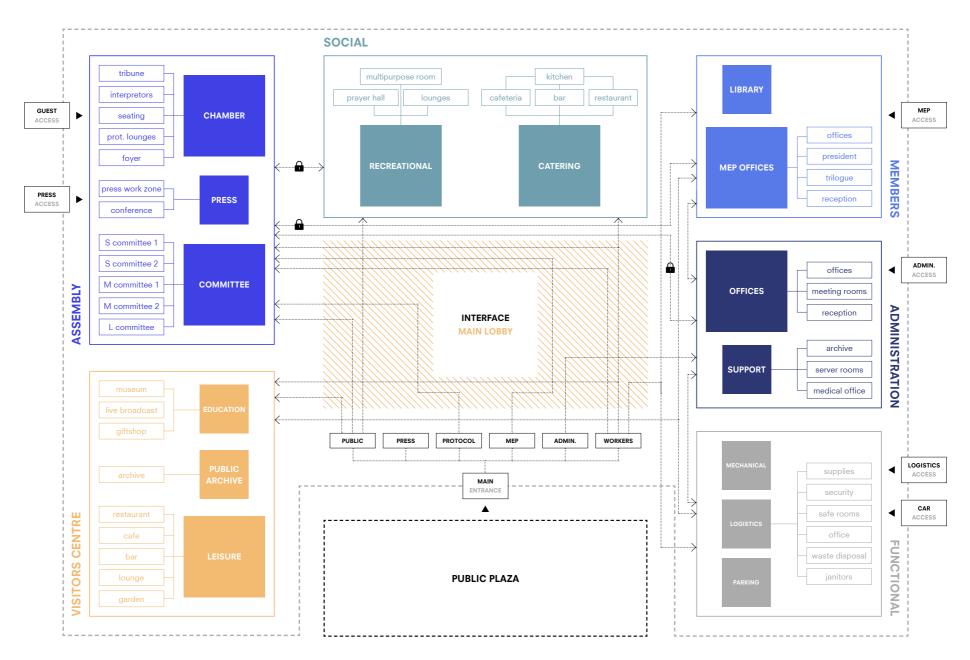








design brief SPATIAL SCHEME



design brief

CP

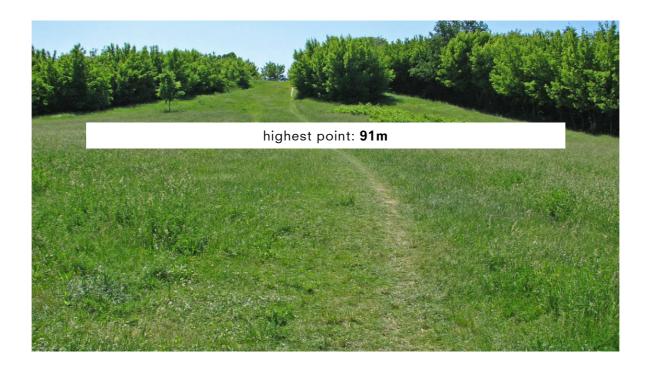
projects

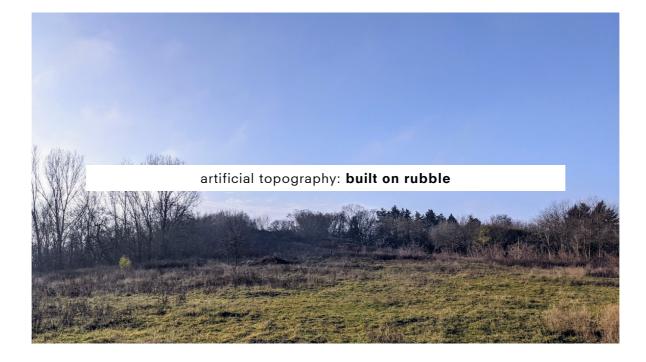
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complex



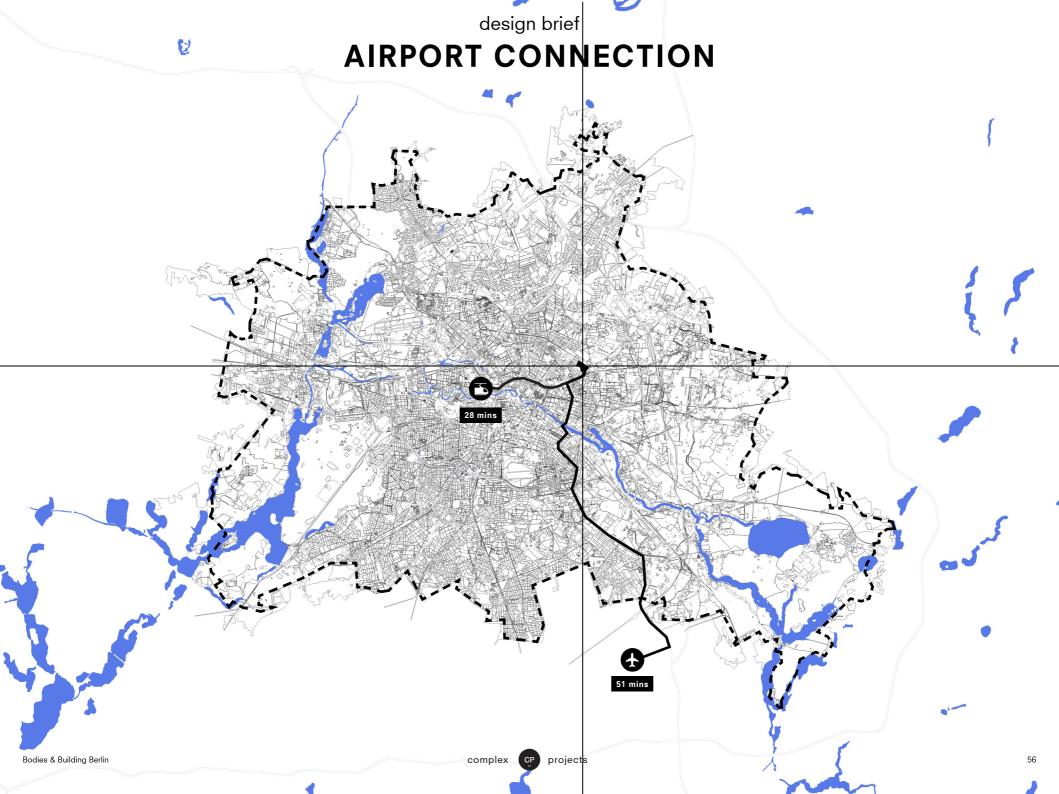




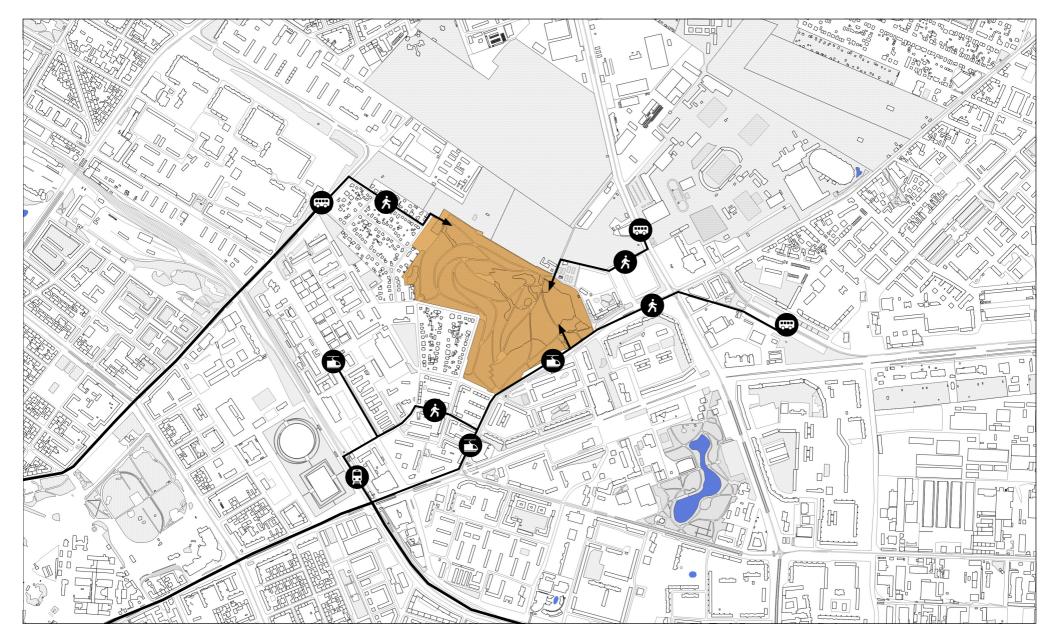








design brief PUBLIC TRANSPORT INFLUX



design brief **POTENTIAL EXPANSION**



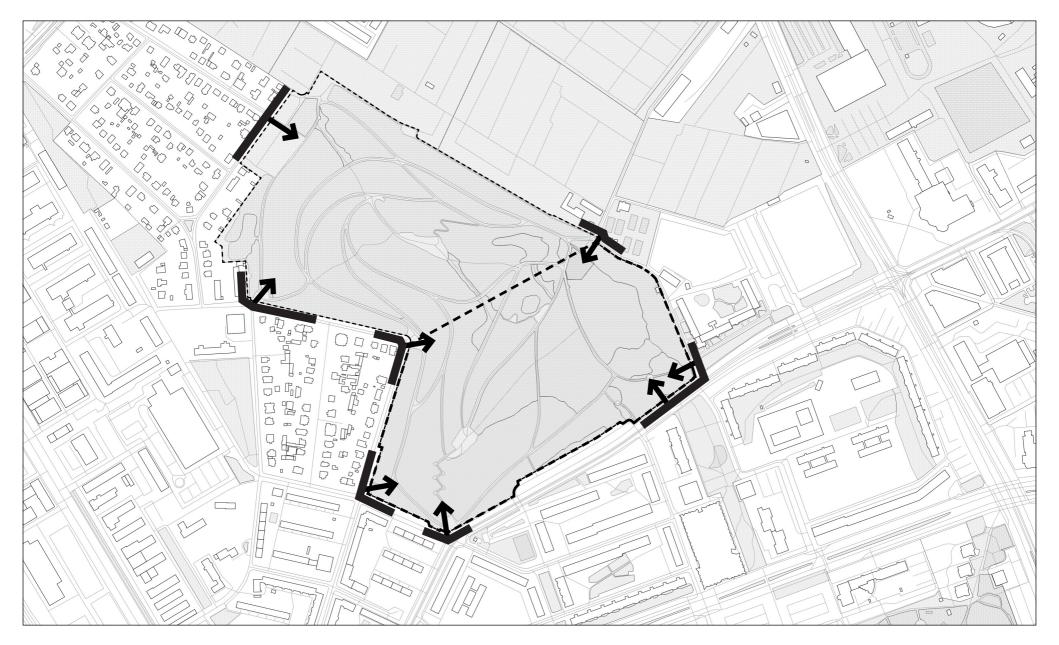
design brief **TOPOGRAPHY**



design brief



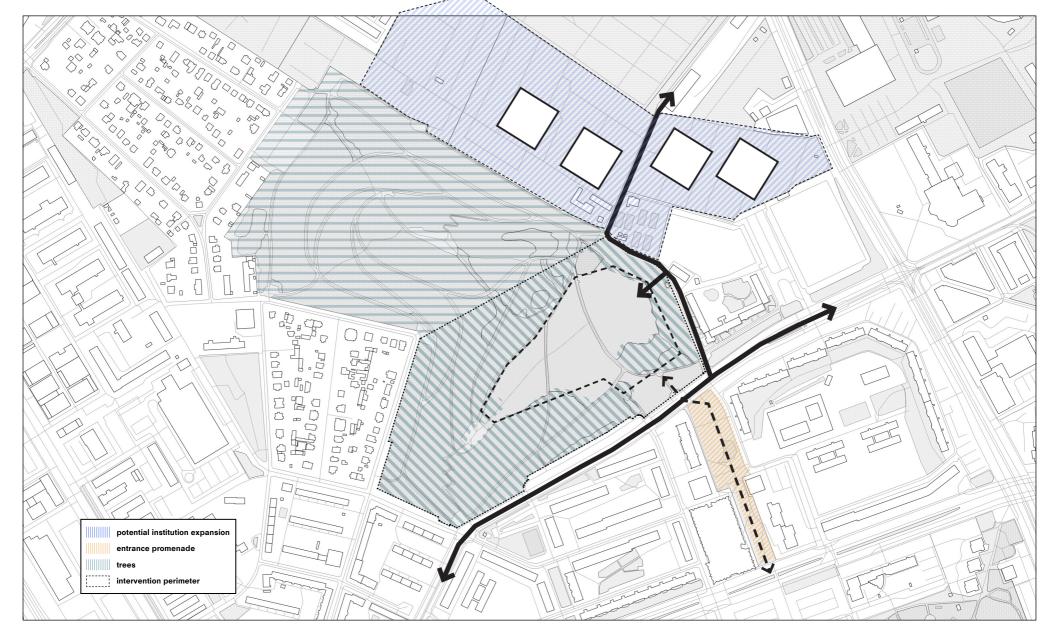
design brief **PUBLIC ACCESS**



design brief **PRIVATE ACCESS**



design brief URBAN VISION 2050



500 m

 (\mathbf{T})

50

150

250

0

index

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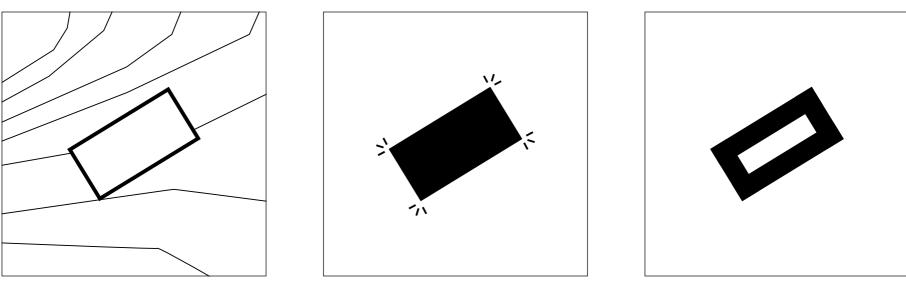


?

concept VISION INSPIRATION



concept DESIGN CHALLENGES

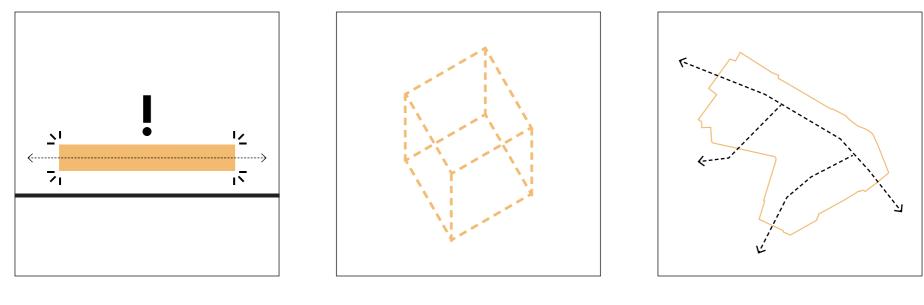


TOPOGRAPHY

BIG MASS

VILLA IN THE PARK

concept DESIGN AMBITIONS

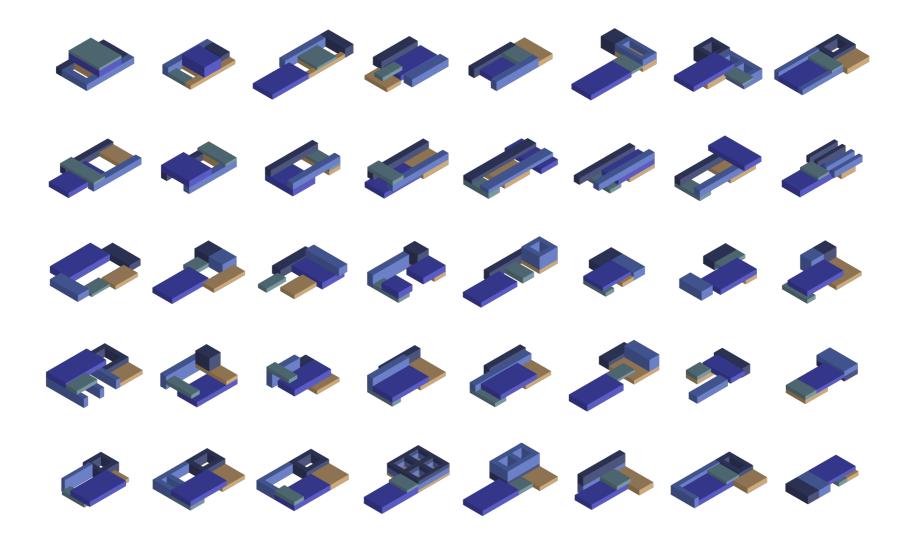


HORIZONTAL MONUMENTALITY

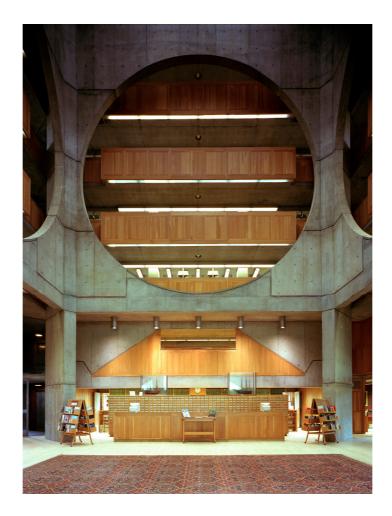
TRANSPARENT PROCESS

SITE CONTINUITY

concept MASSING ITERATIONS

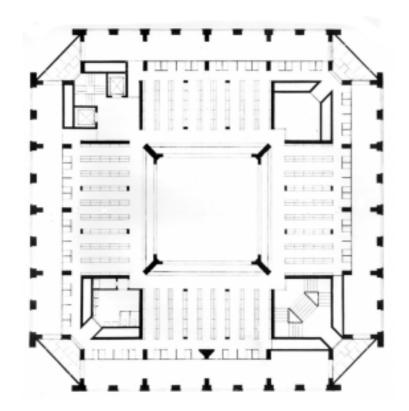


concept COMPOSITIONAL CLARITY



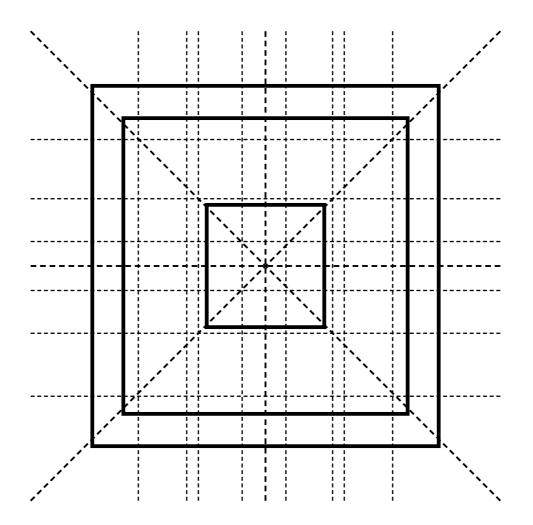
PHILIP EXETER LIBRARY Louis Kahn, 1972

concept COMPOSITIONAL CLARITY



PHILIP EXETER LIBRARY Louis Kahn, 1972

concept COMPOSITIONAL CLARITY

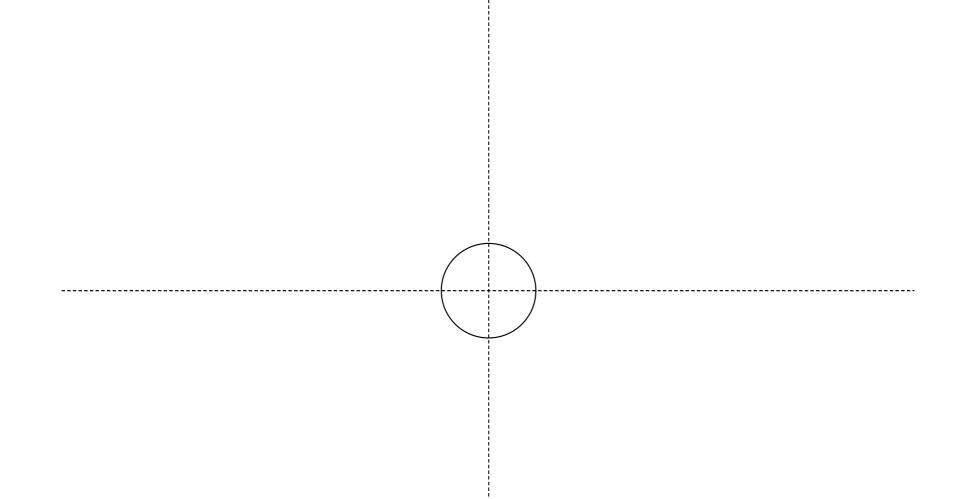


PHILIP EXETER LIBRARY Louis Kahn, 1972

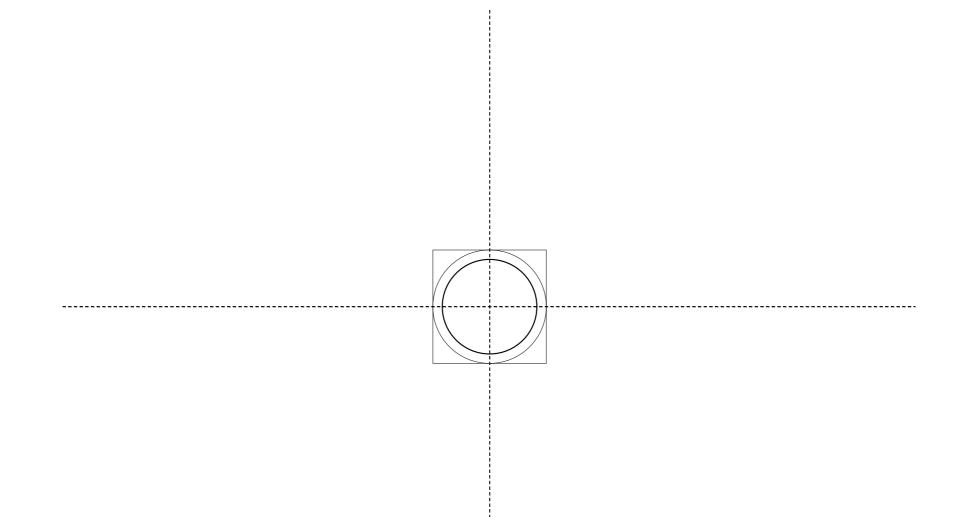
concept COMPOSITIONAL CLARITY

?

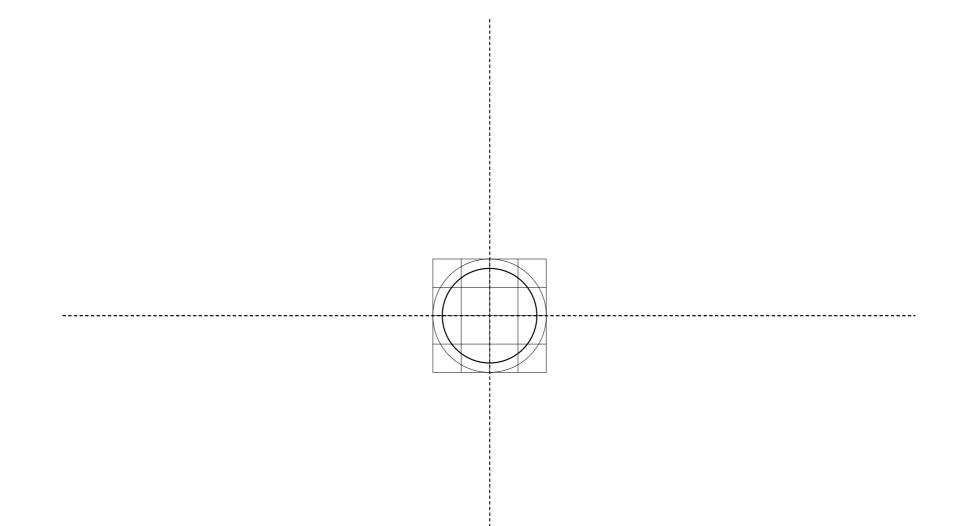
concept **DEBATE CHAMBER**



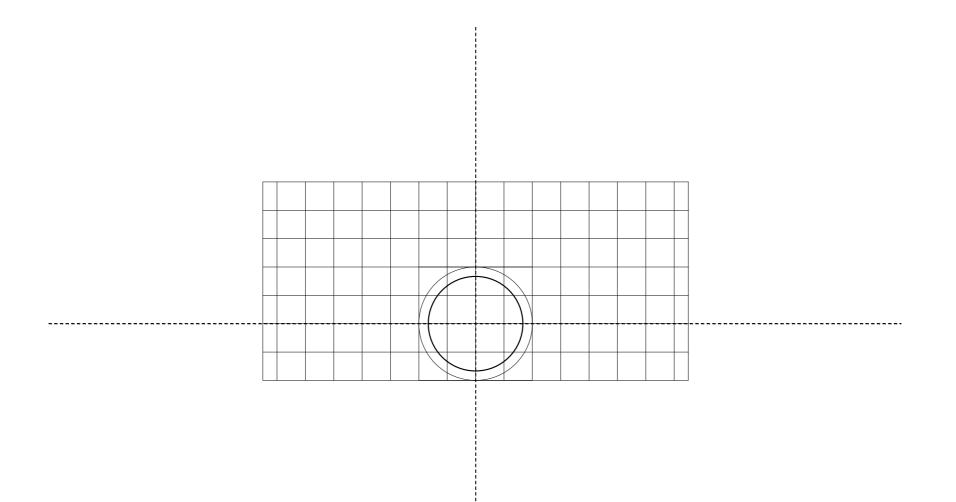
concept 60 x 60 SQUARE



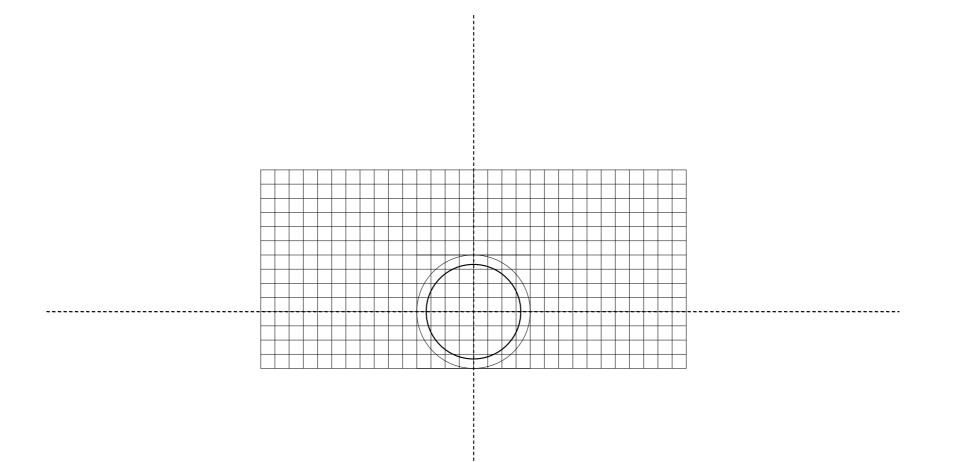




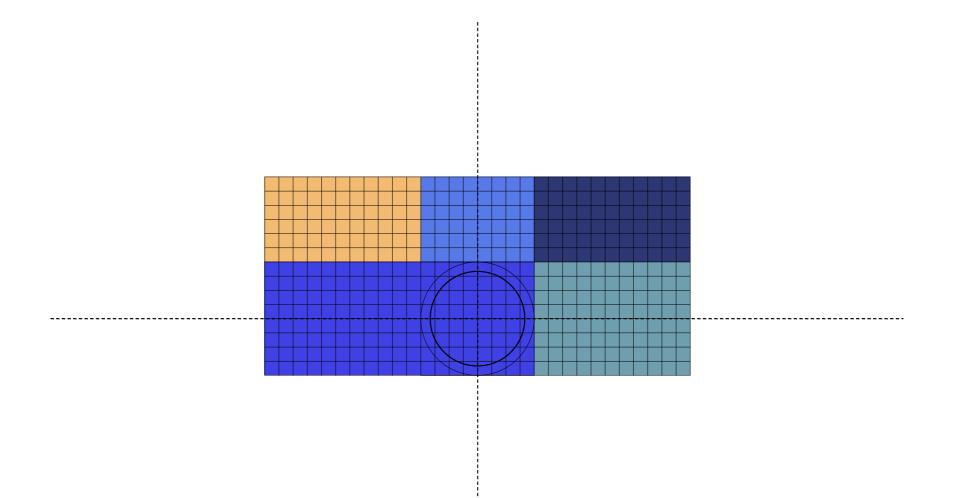




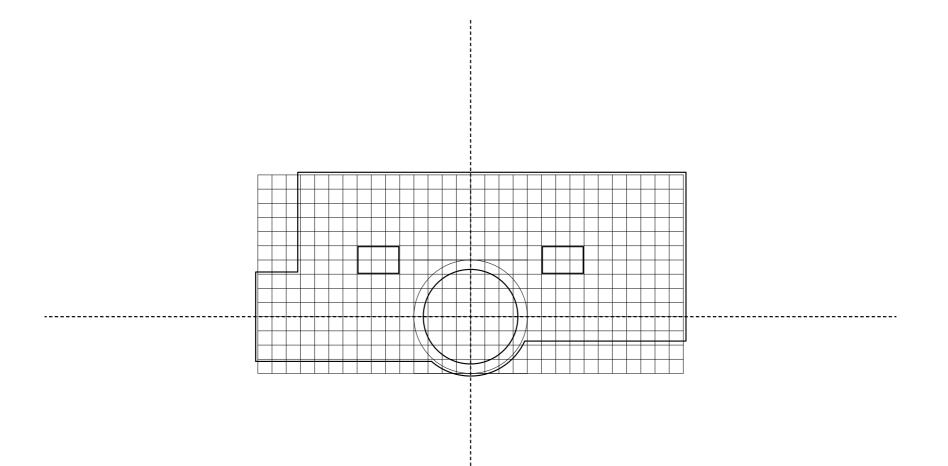
concept 7.5 x 7.5 GRID



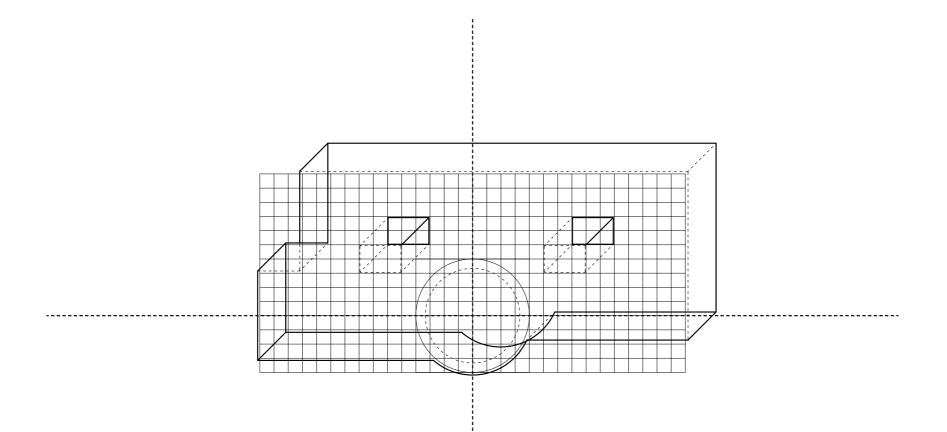




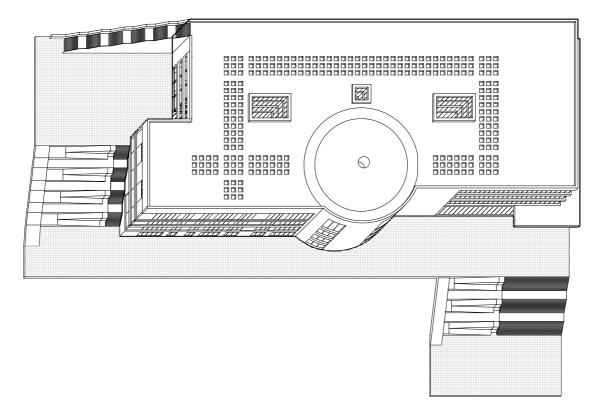


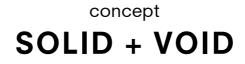




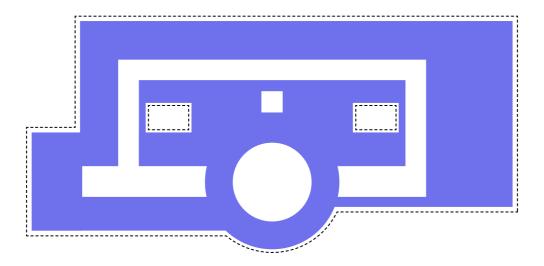


concept BUILDING FORM





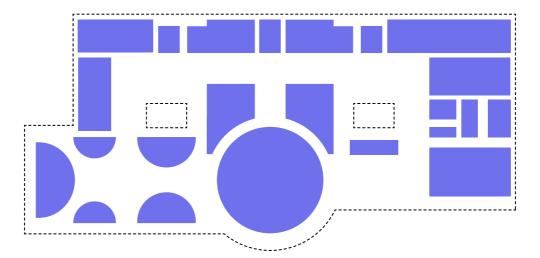




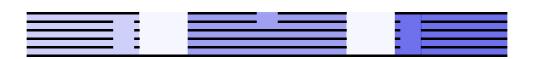


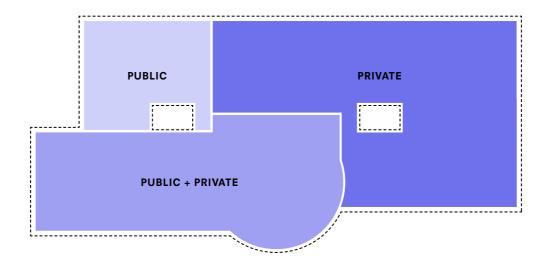






concept PUBLIC + PRIVATE

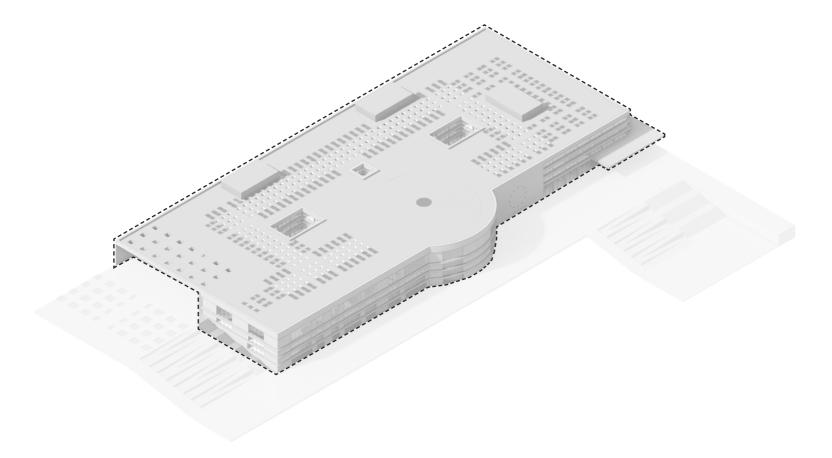




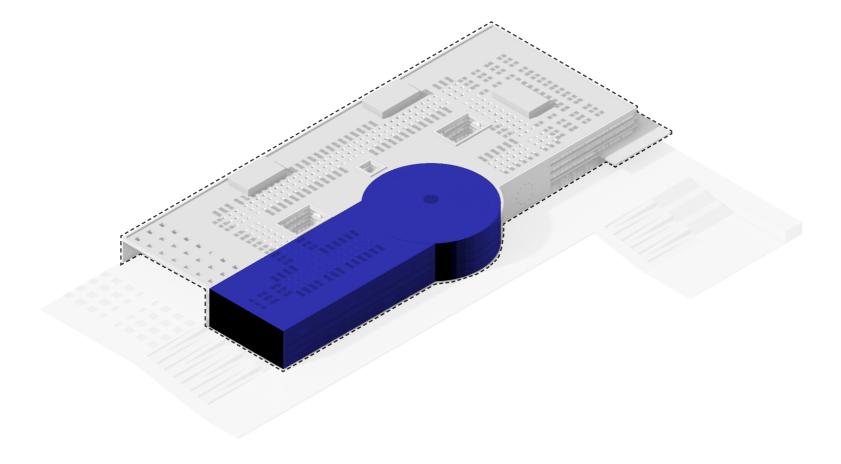




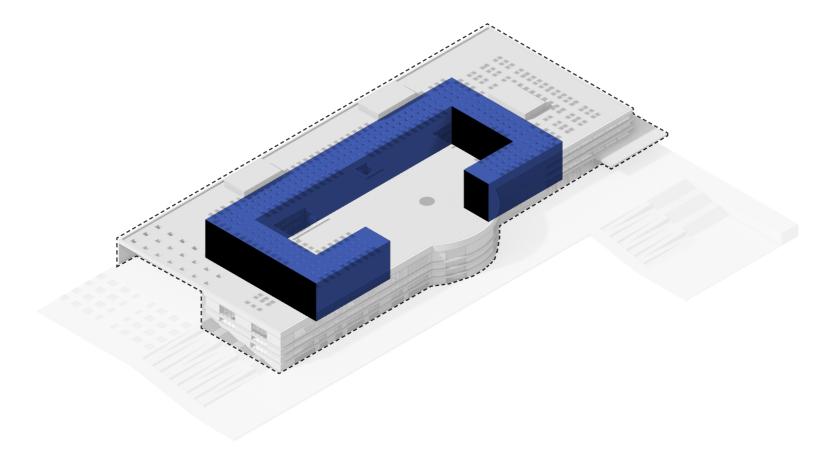
concept **MAIN ELEMENTS**



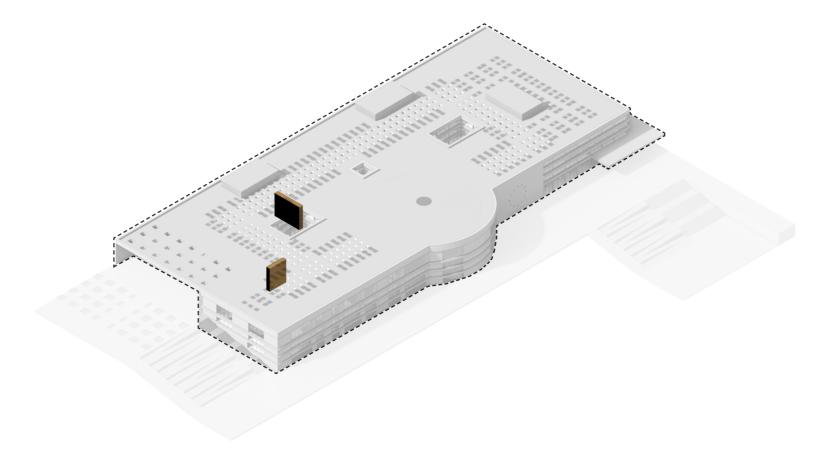




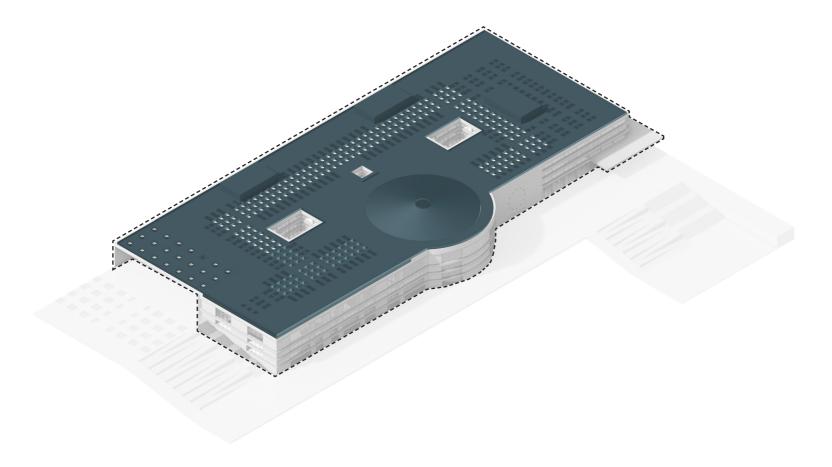










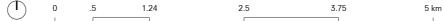


index

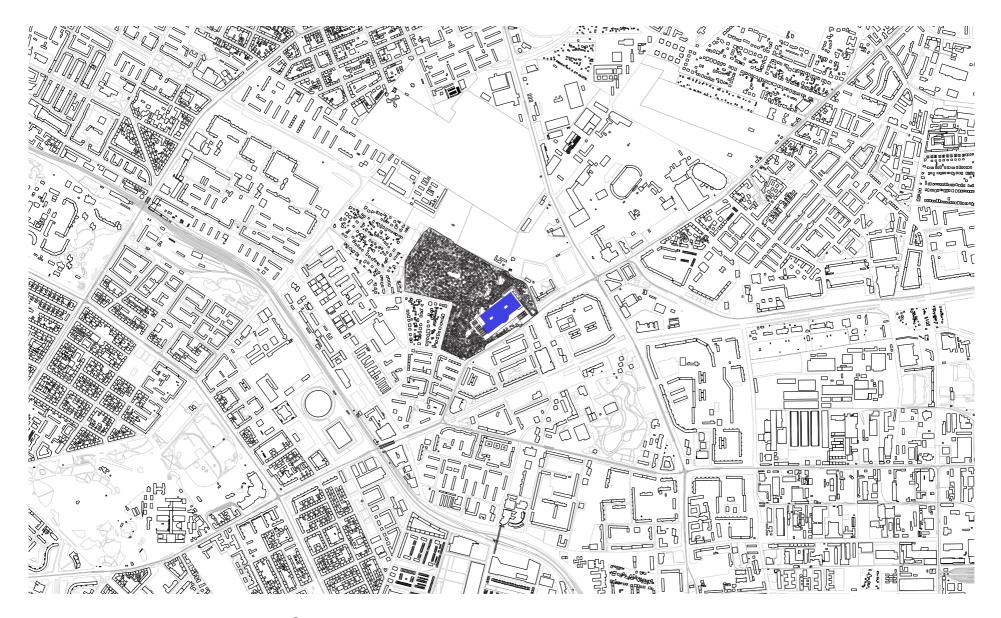
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implementation **FUTURE GROUP**





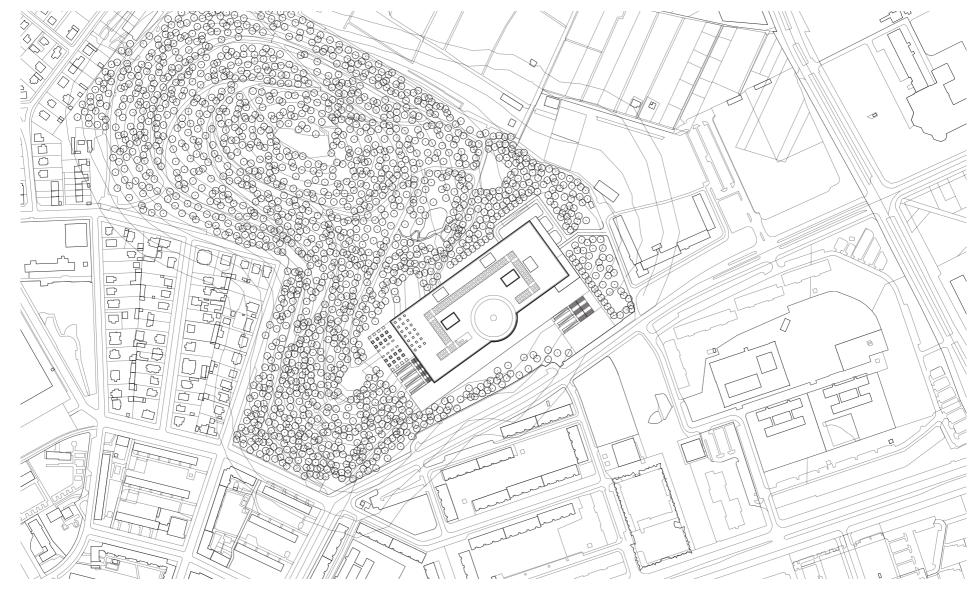
implementation CITY CONTEXT



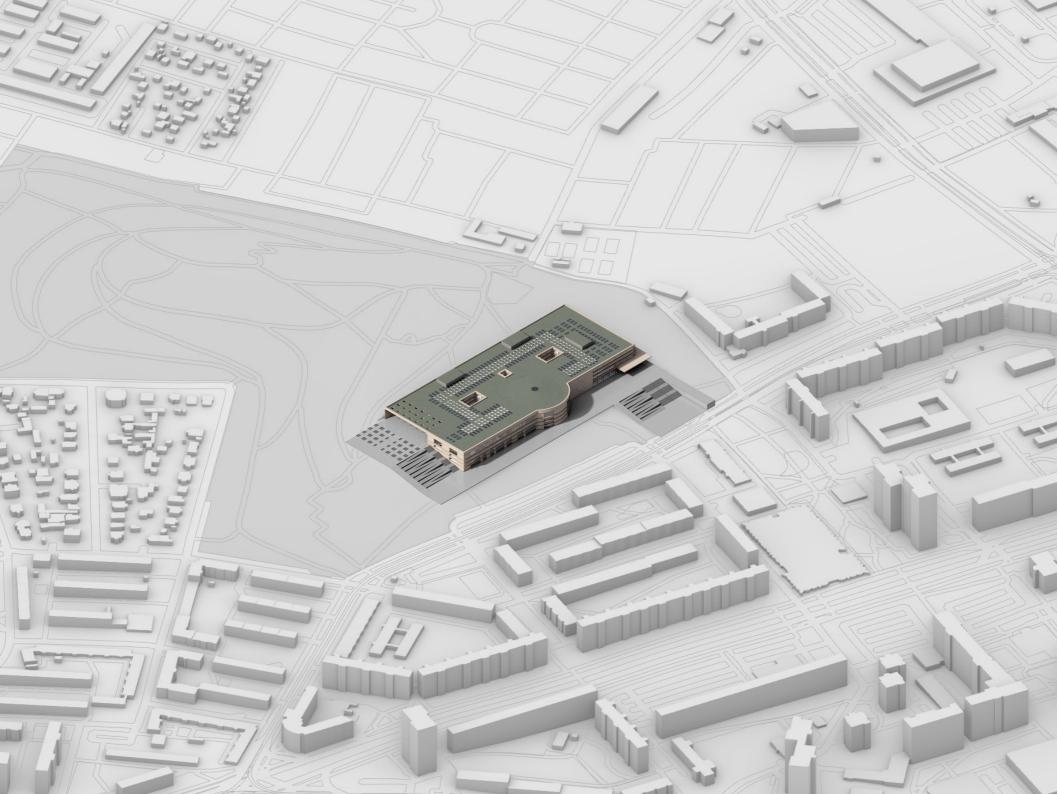
(T) 0 .2 .5 1 1.5 2 km



implementation **SITE PLAN**



(I) 0 50 125 250 375 500 m



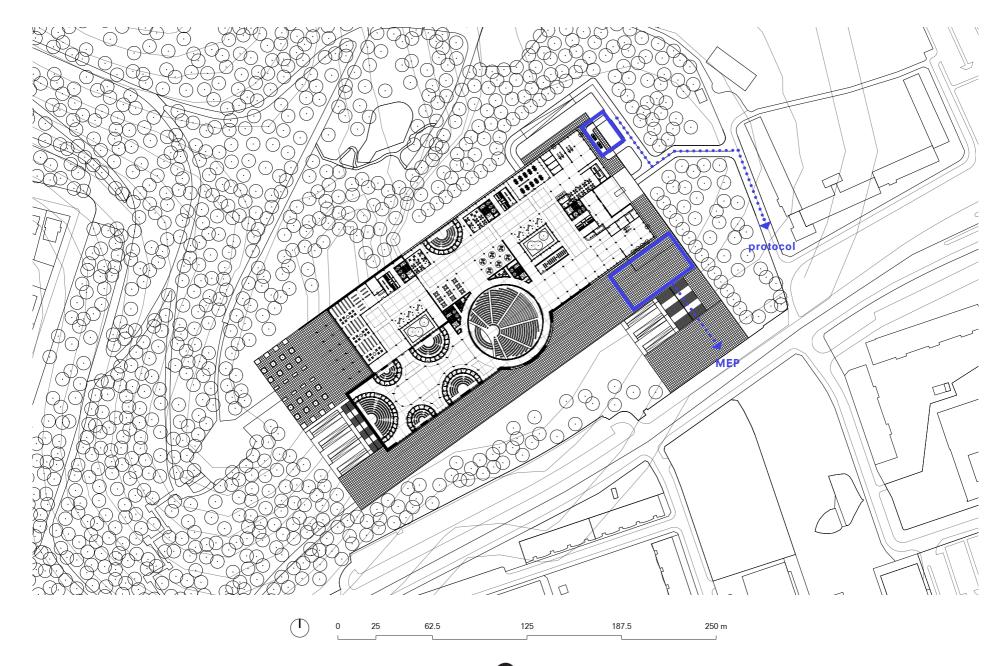
implementation **NEW EUROPEAN PARLAIMENT**



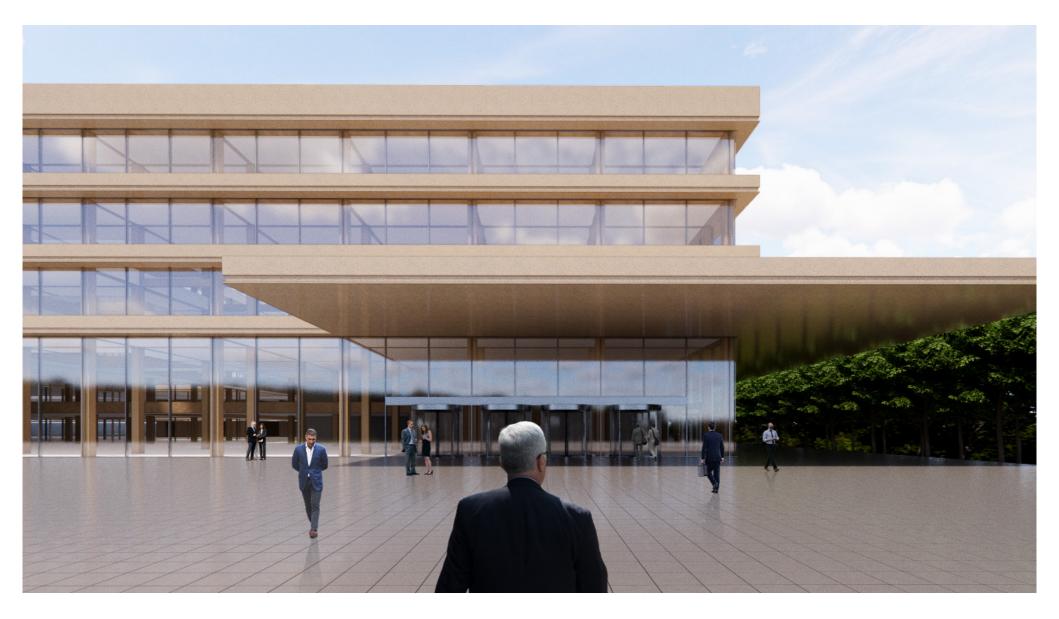
implementation URBAN IMPLEMENTATION



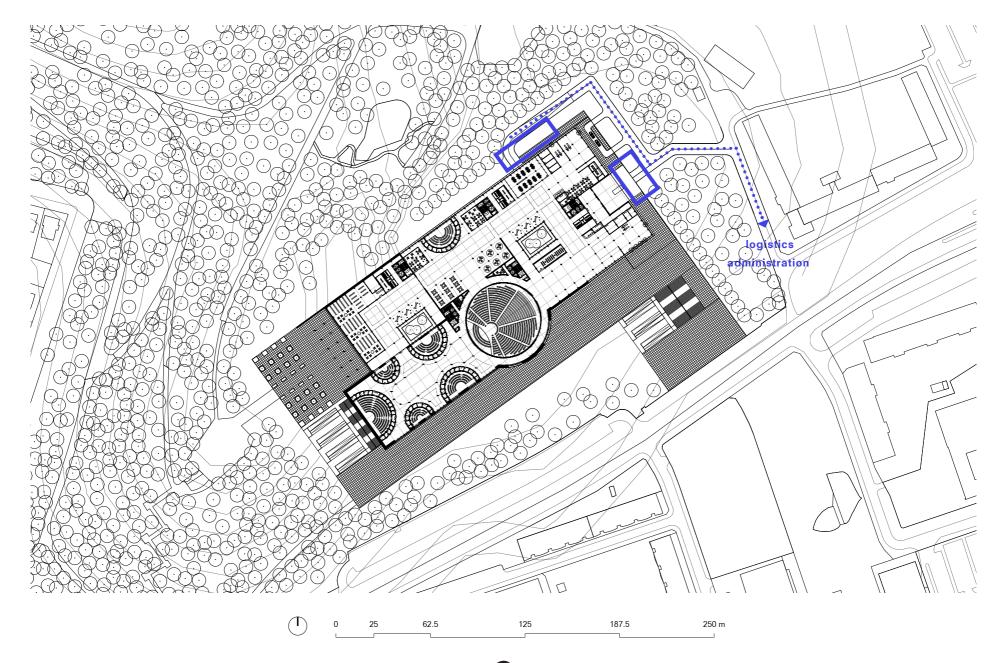
implementation **PRIVATE ACCESS**



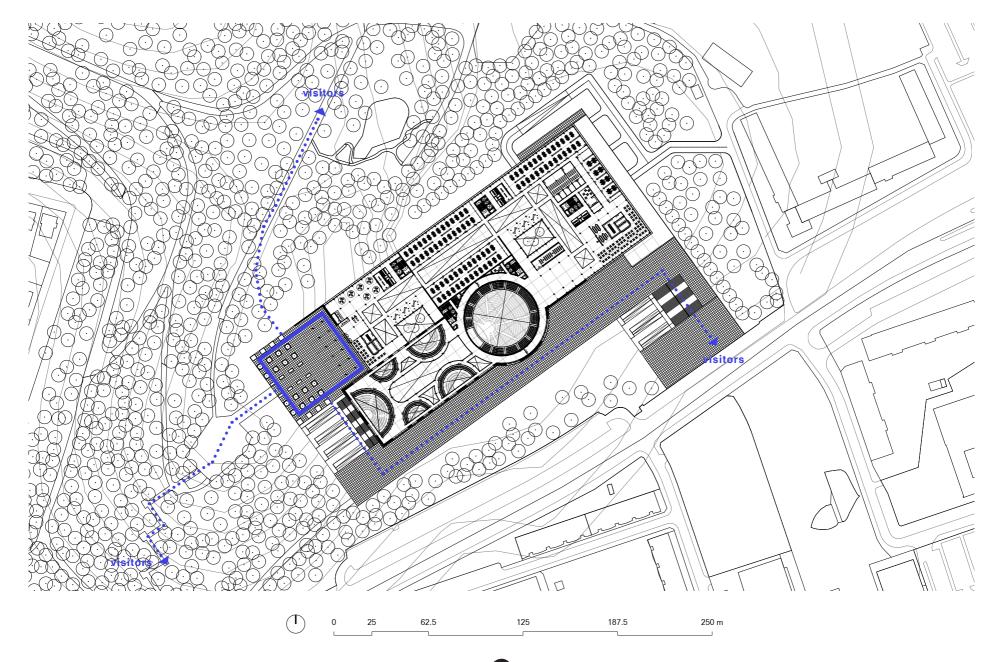
implementation **MEP ENTRANCE**



implementation **PRIVATE ACCESS**



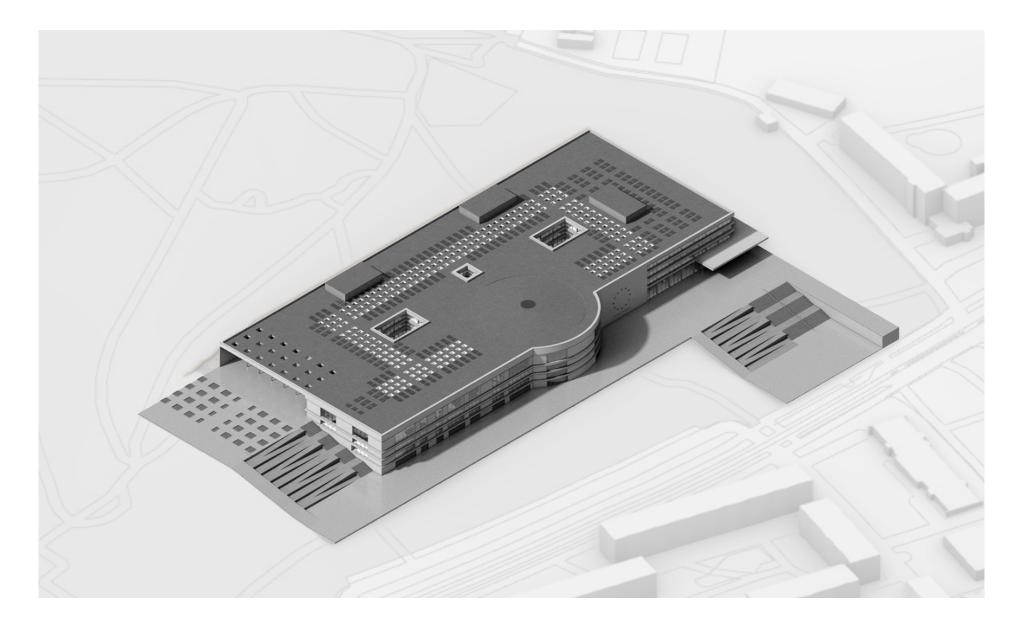
implementation **PUBLIC ACCESS**



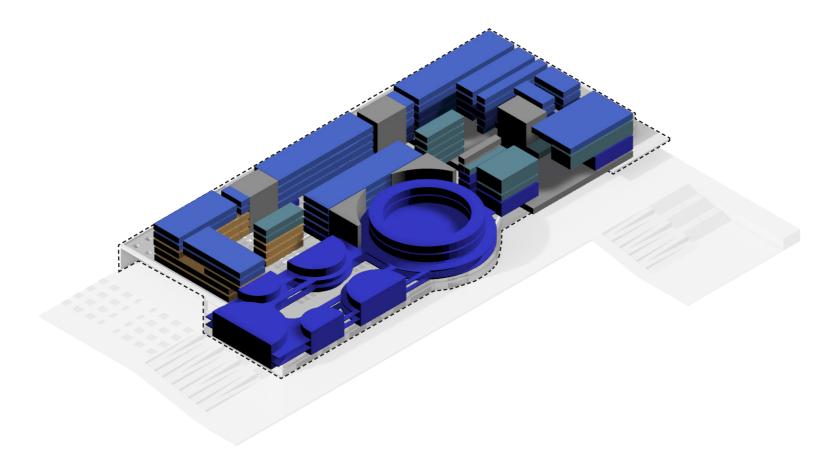
implementation **VISITORS ENTRANCE**



implementation **PROGRAM**

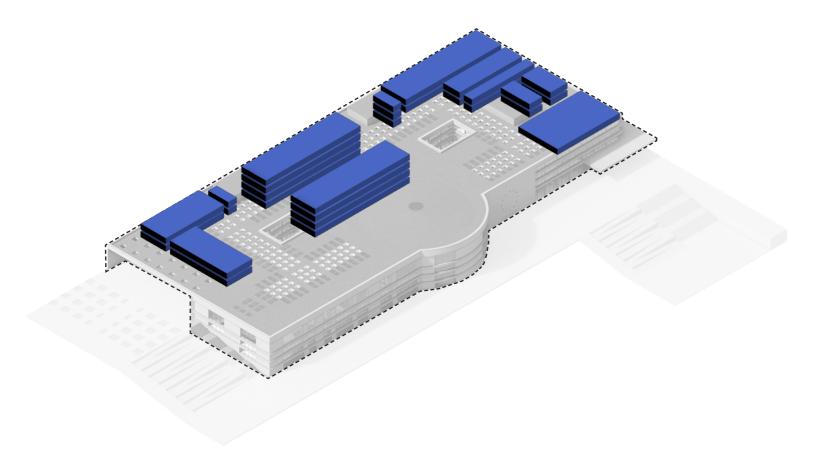






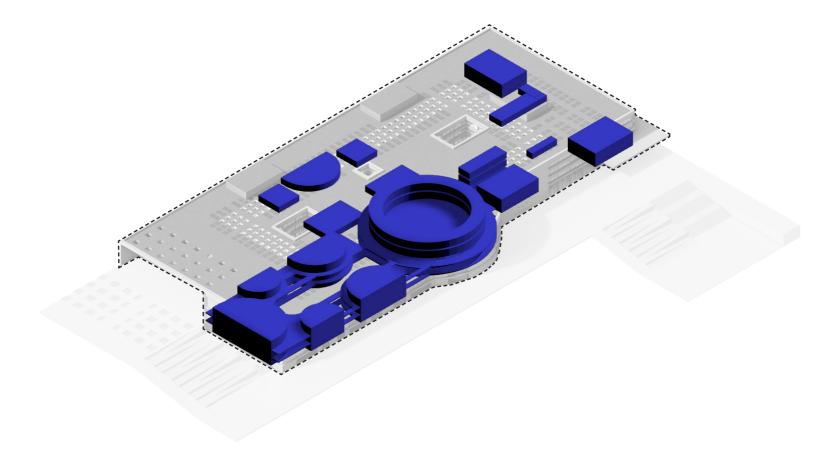
implementation



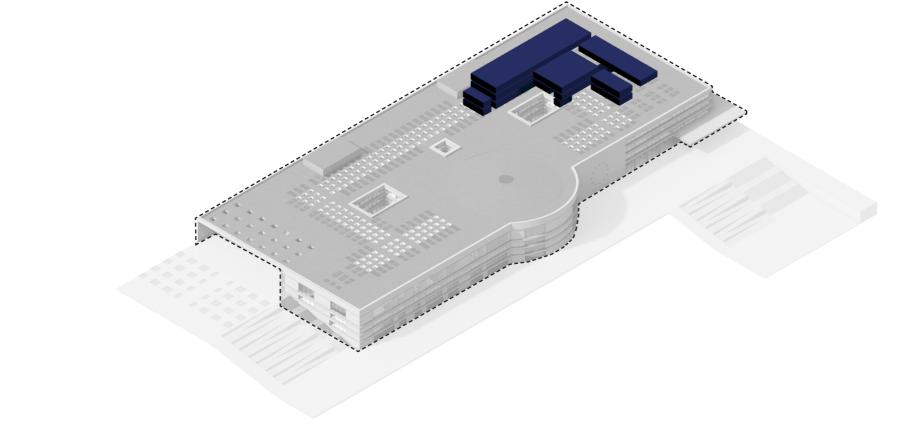


implementation

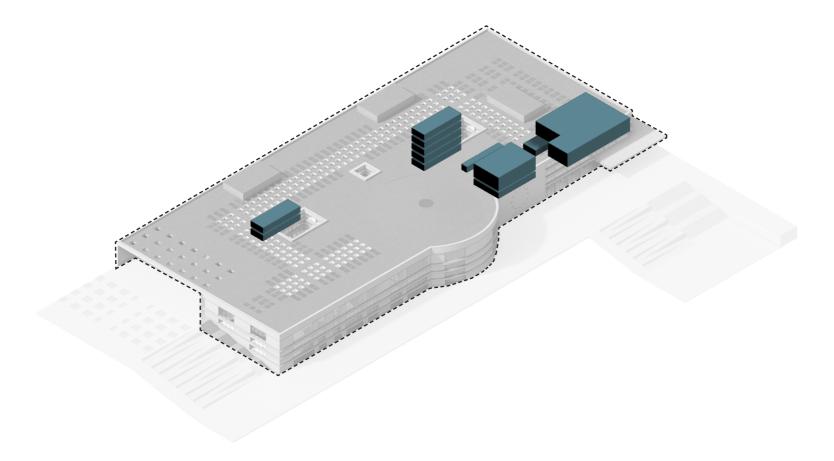




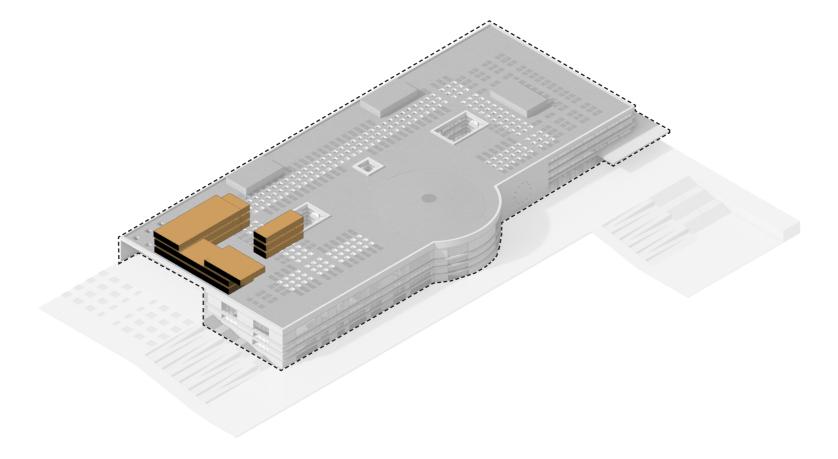
implementation **ADMINISTRATION**



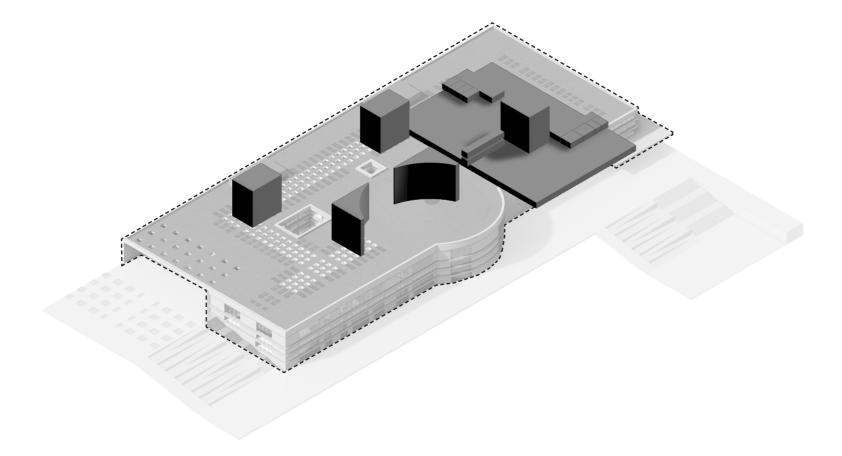
implementation **SOCIAL**



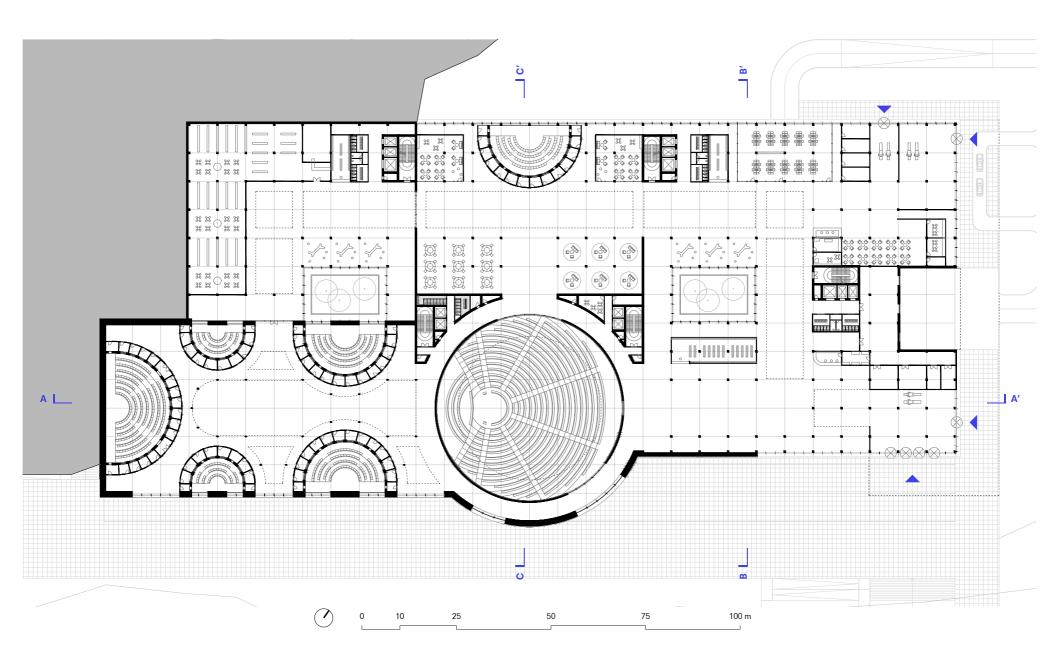




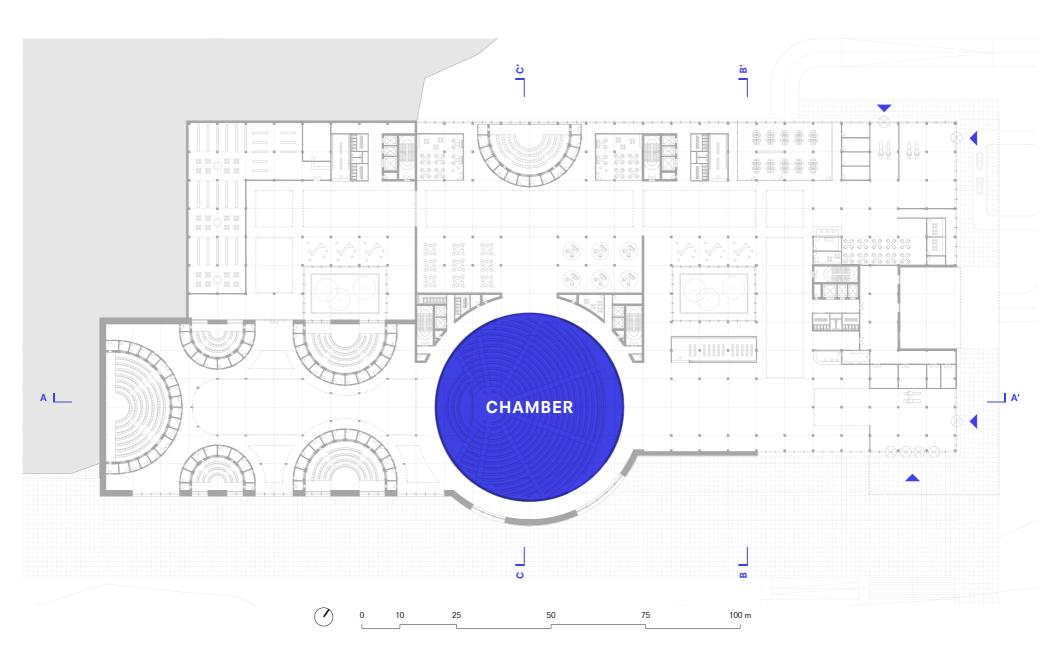




LEVEL 0

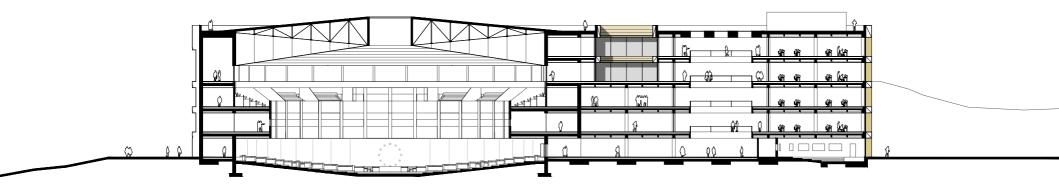


LEVEL 0



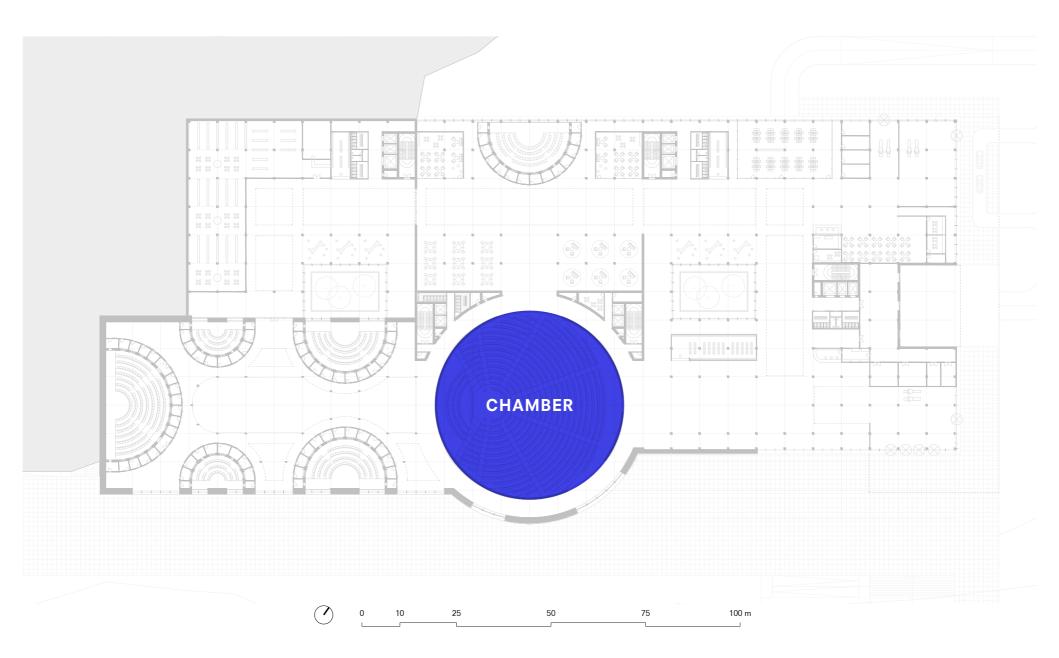




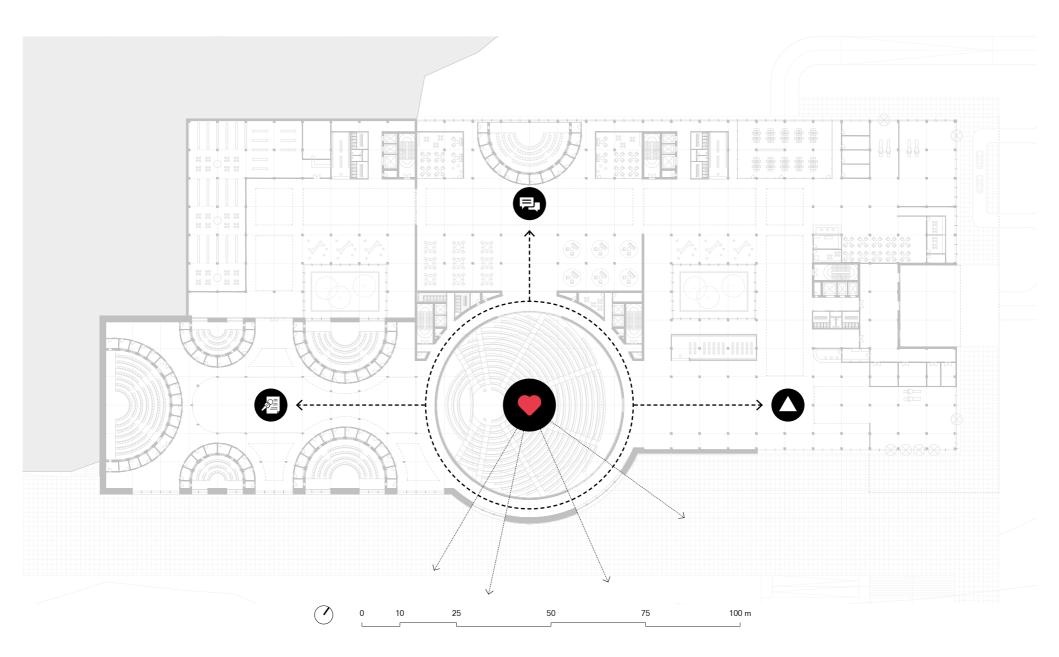




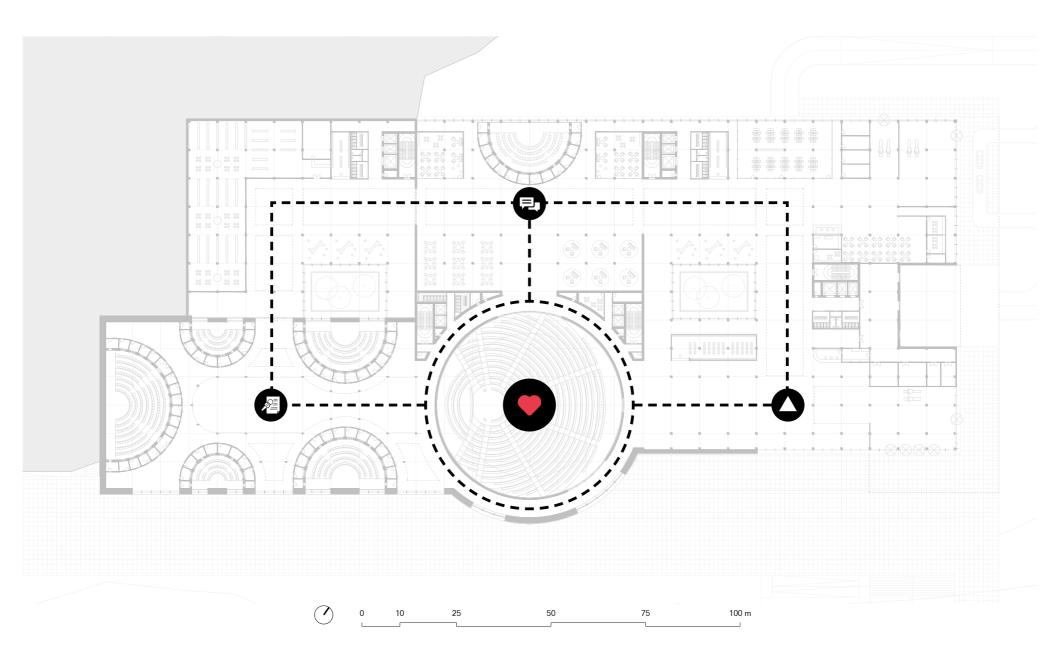
implementation HEART OF THE BUILDING



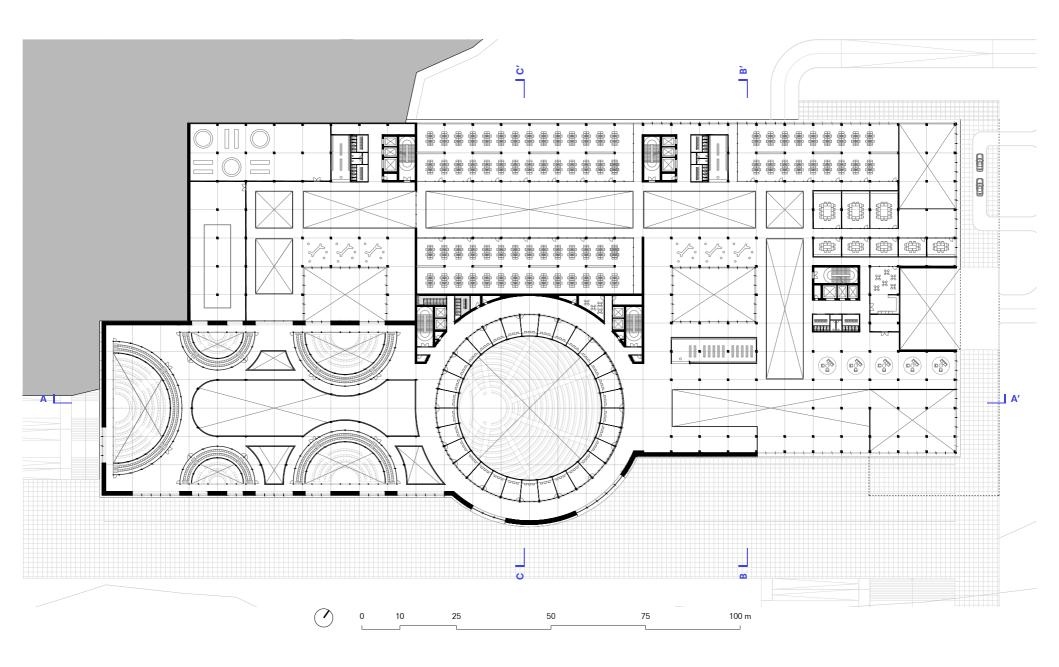
implementation HEART OF THE BUILDING

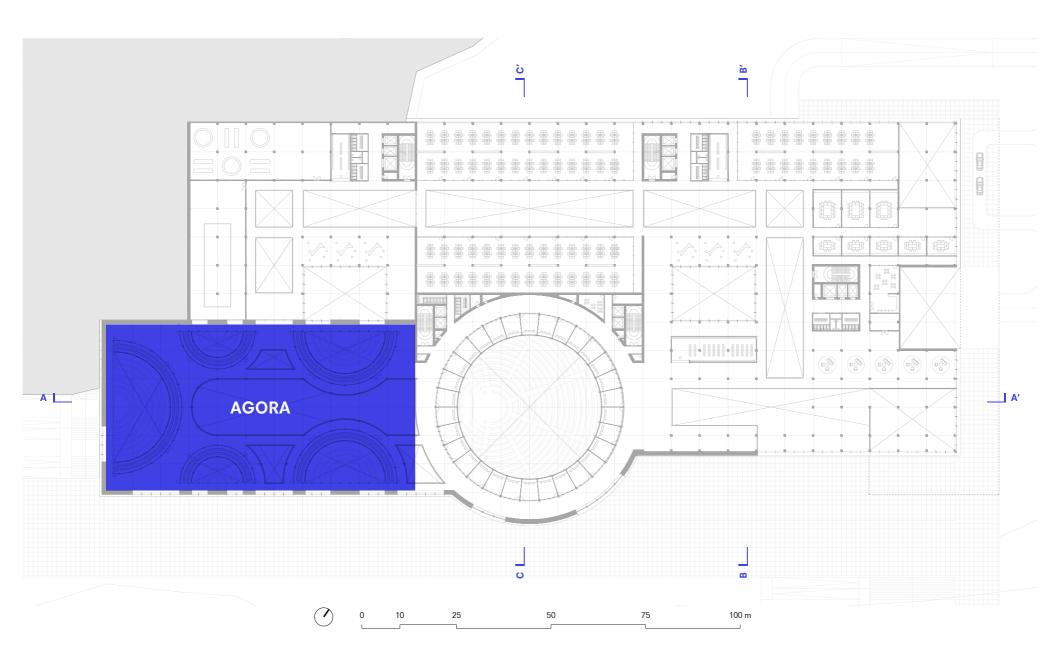


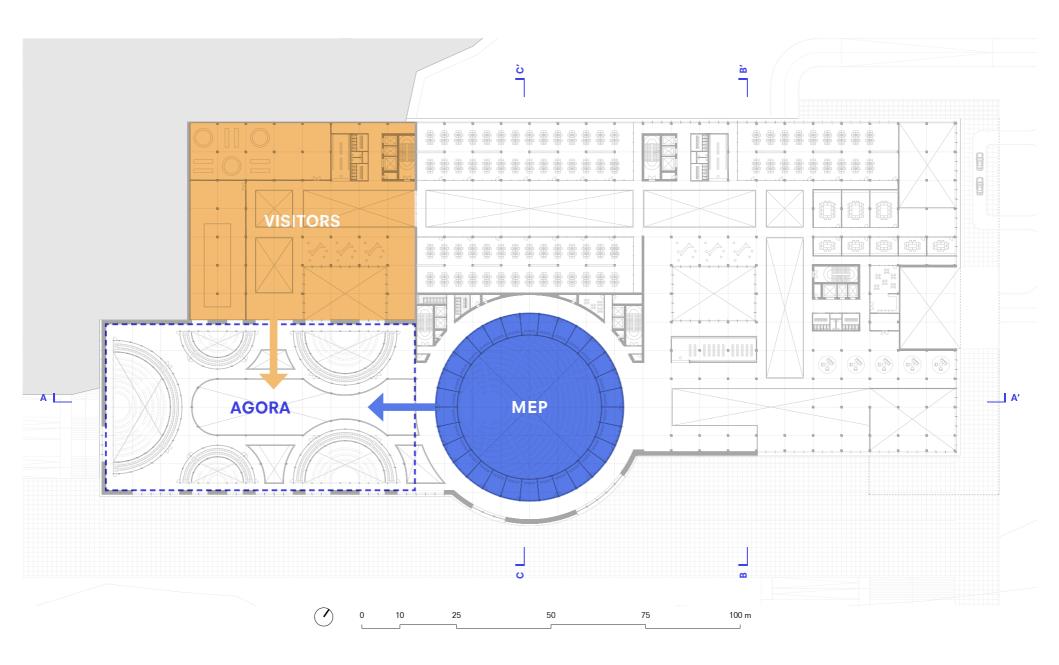
implementation HEART OF THE BUILDING



LEVEL +1





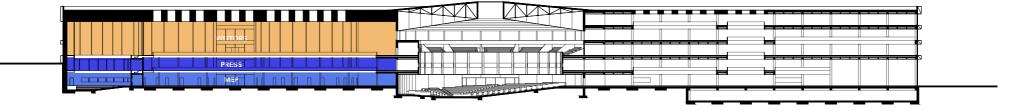






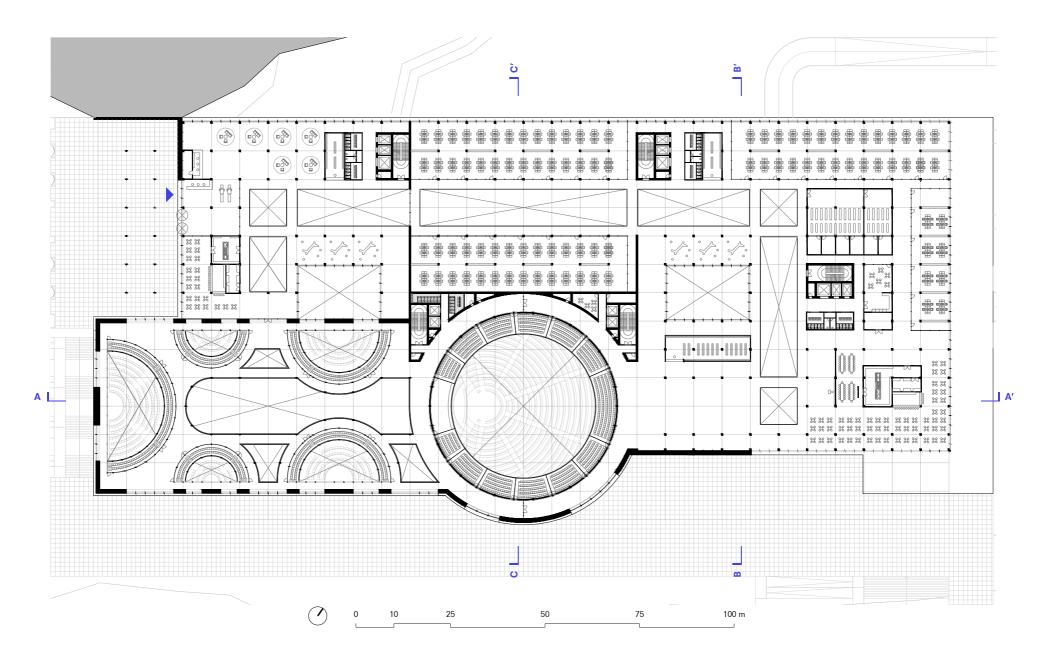




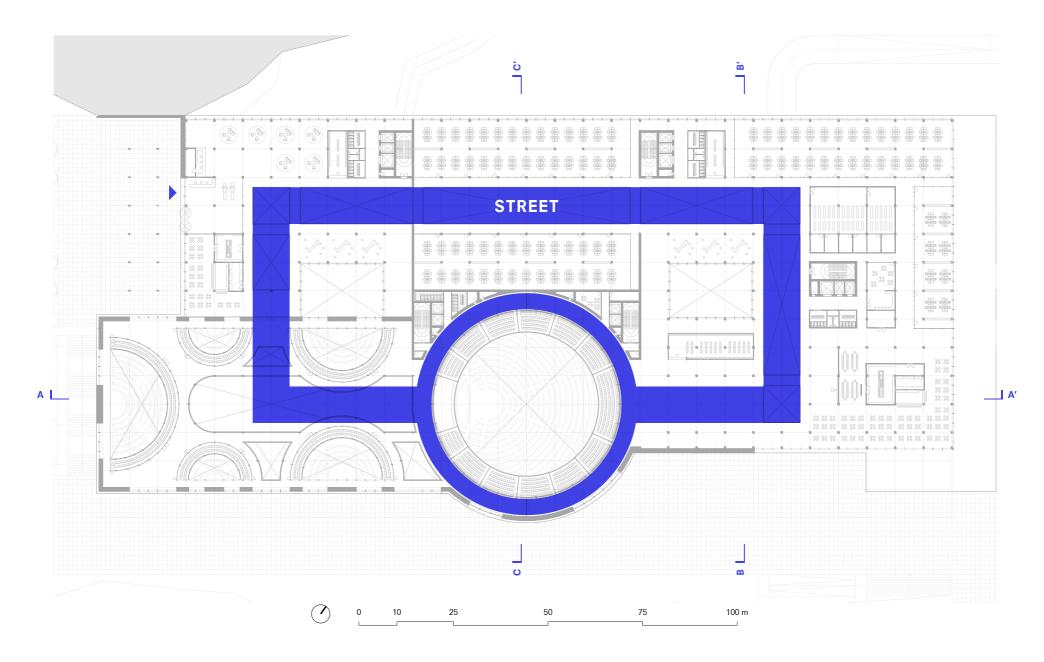




LEVEL +2

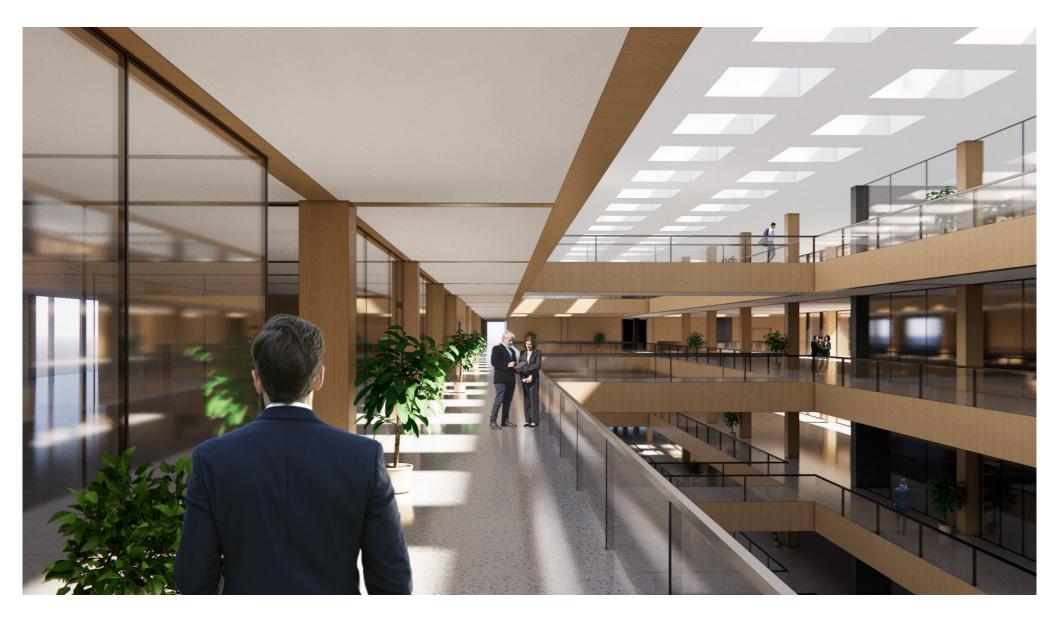


LEVEL +2





implementation **STREET**



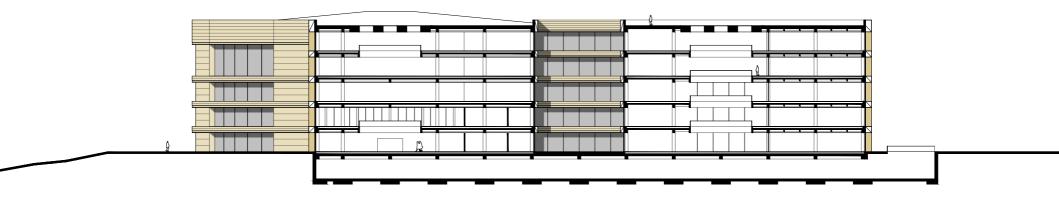






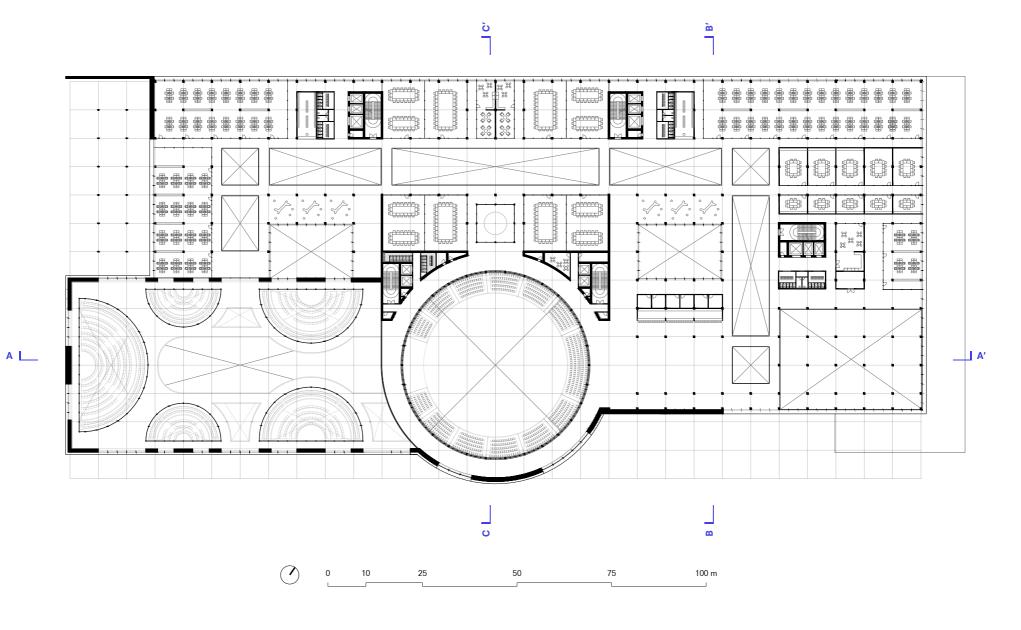


implementation
SECTION CC'



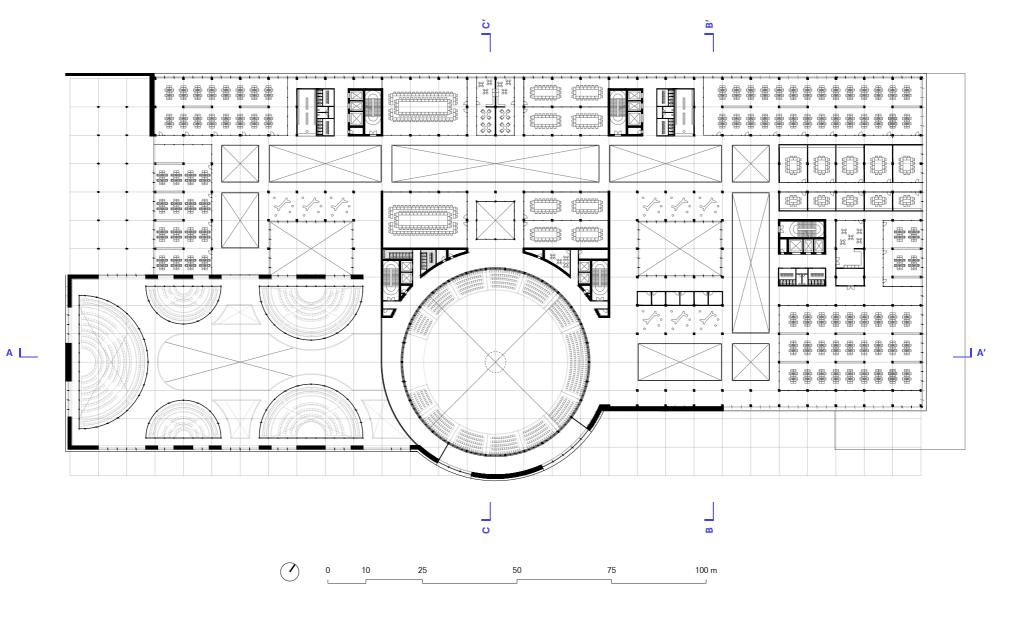


LEVEL +3



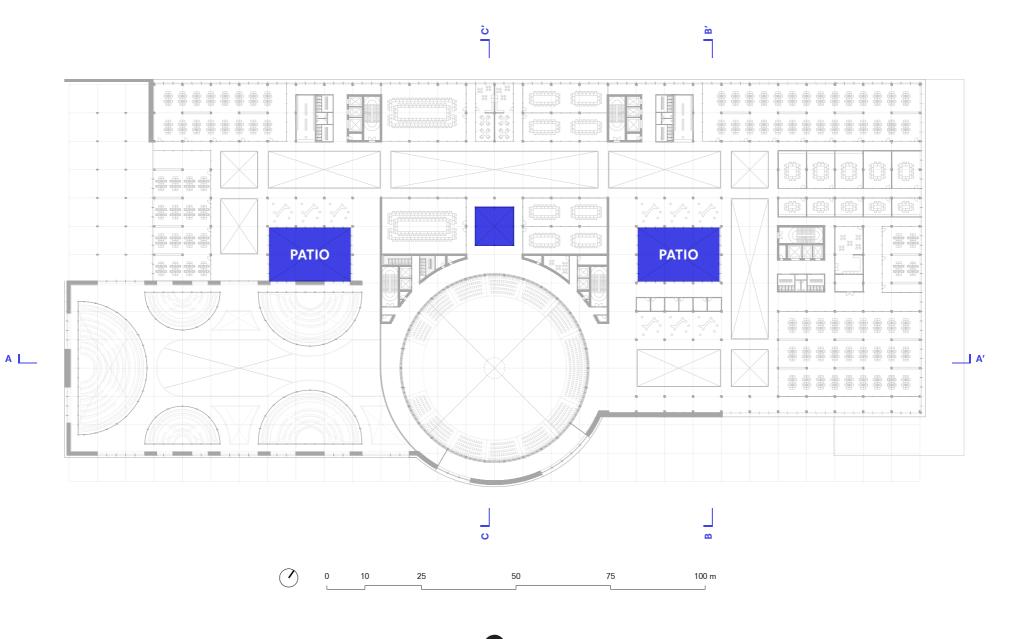
Bodies & Building Berlin

LEVEL +4

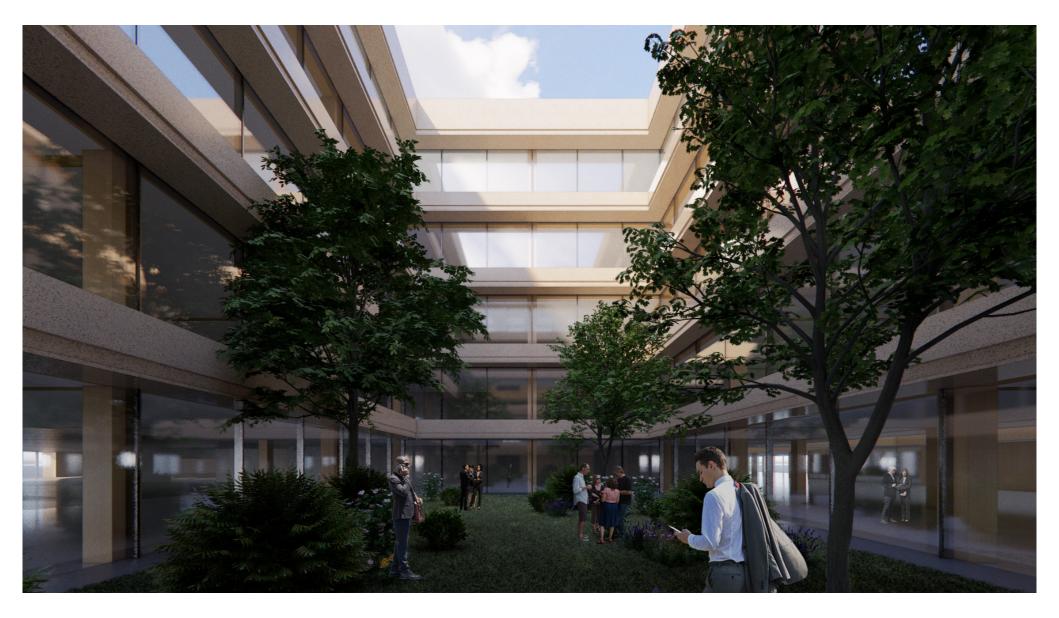


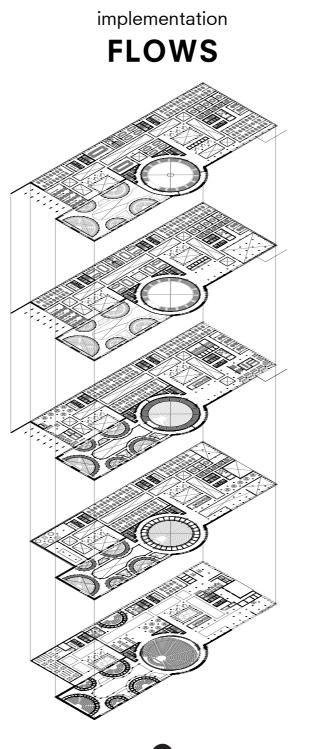
Bodies & Building Berlin

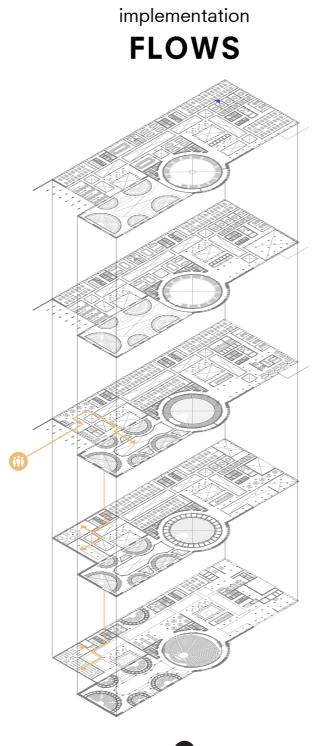
LEVEL +4

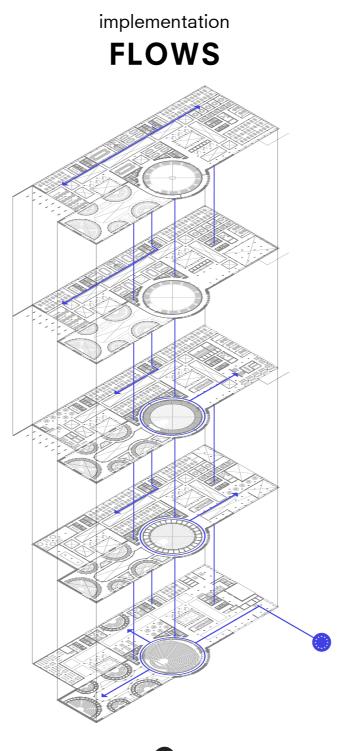


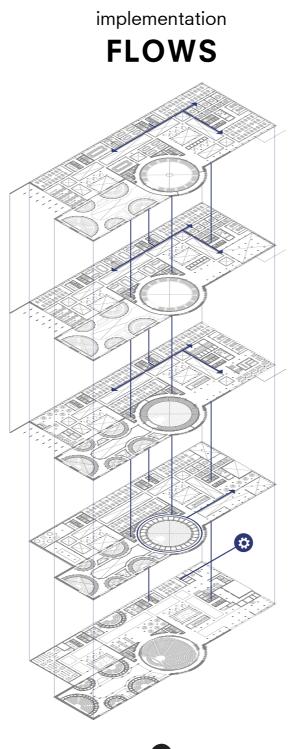
implementation **PATIO**











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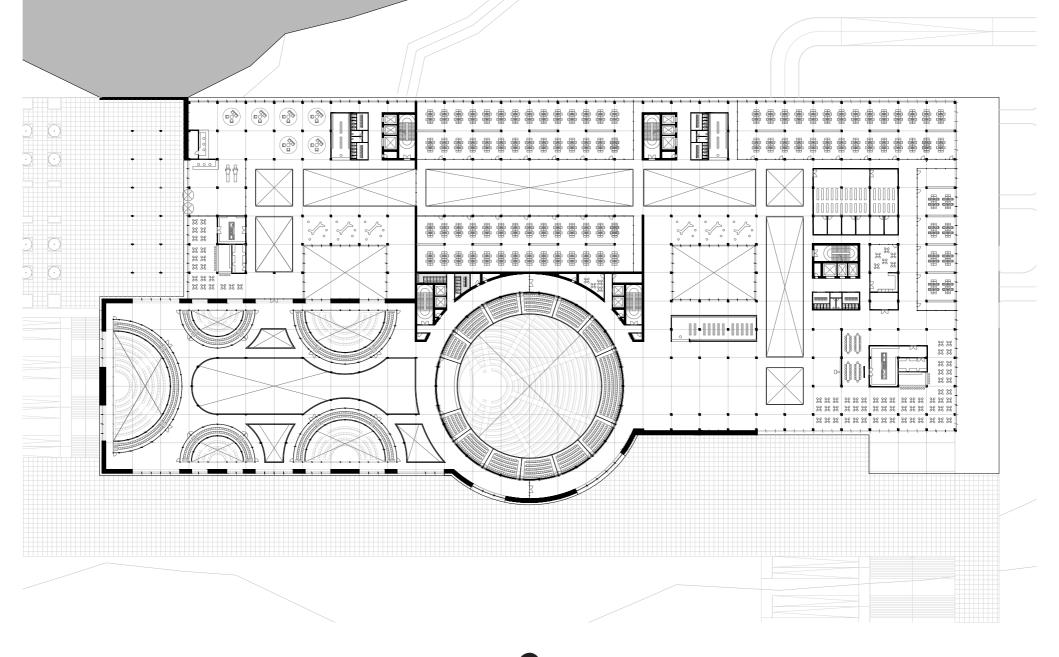
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development
STRUCTURAL PRINCIPLES

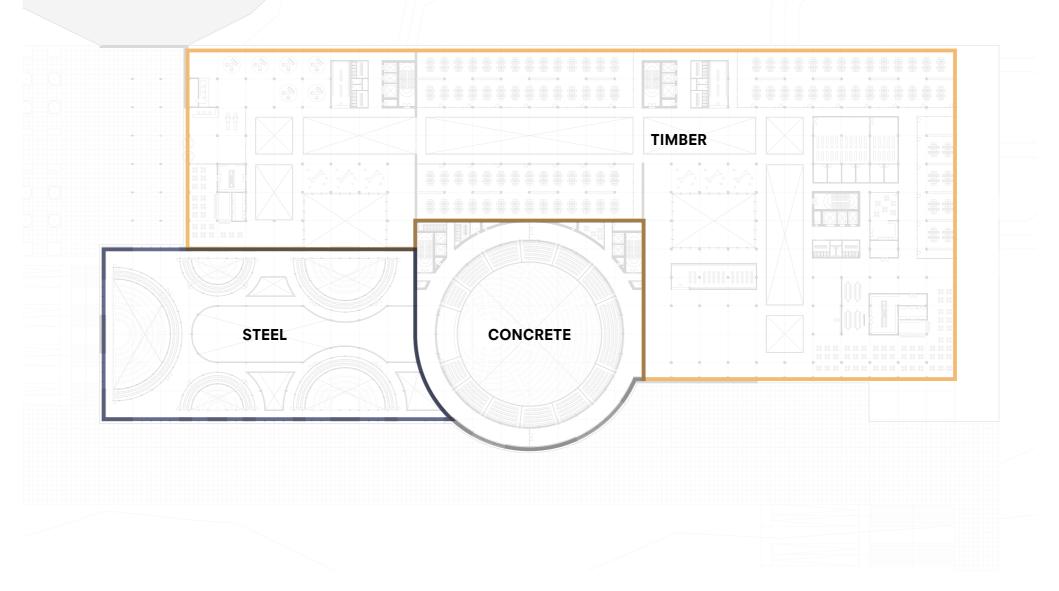


development

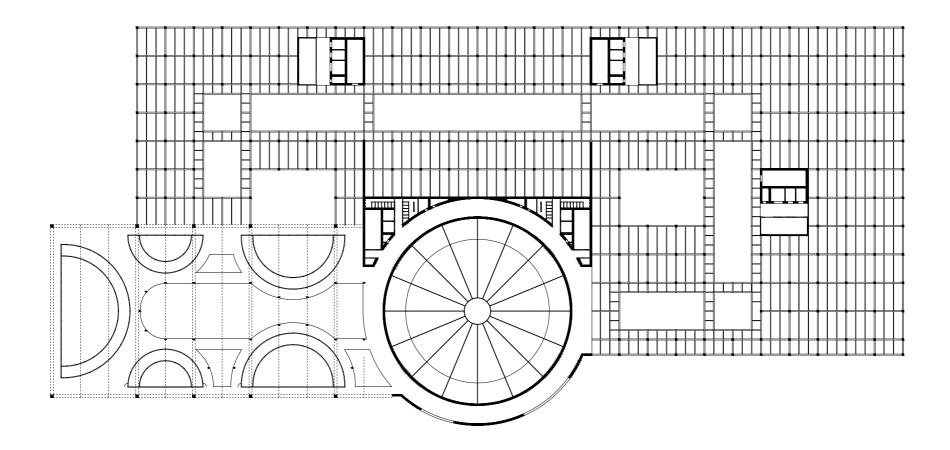
STRUCTURAL LAYOUT



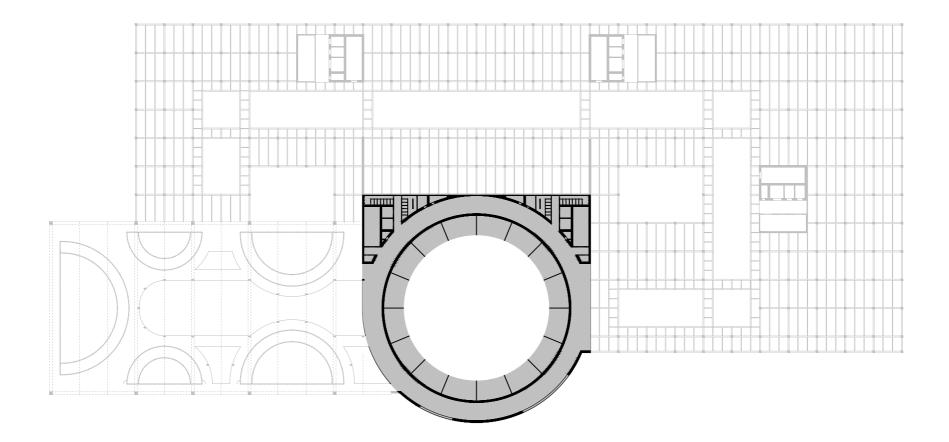
development STRUCTURAL LAYOUT



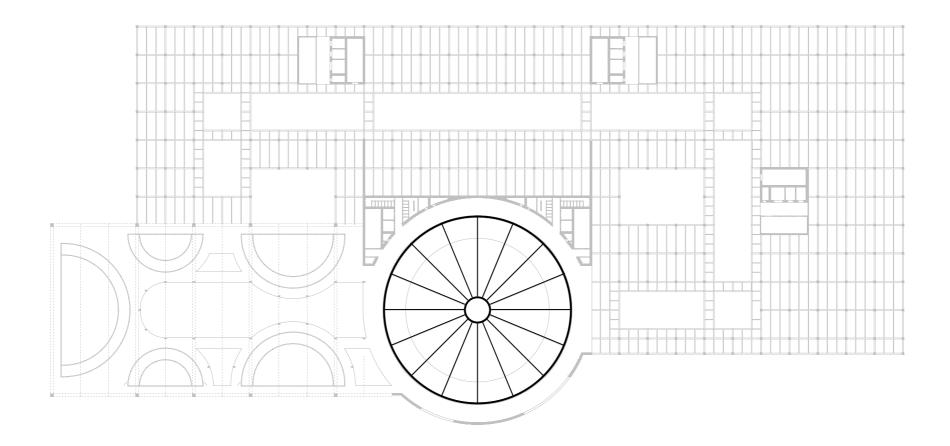
development STRUCTURAL LAYOUT



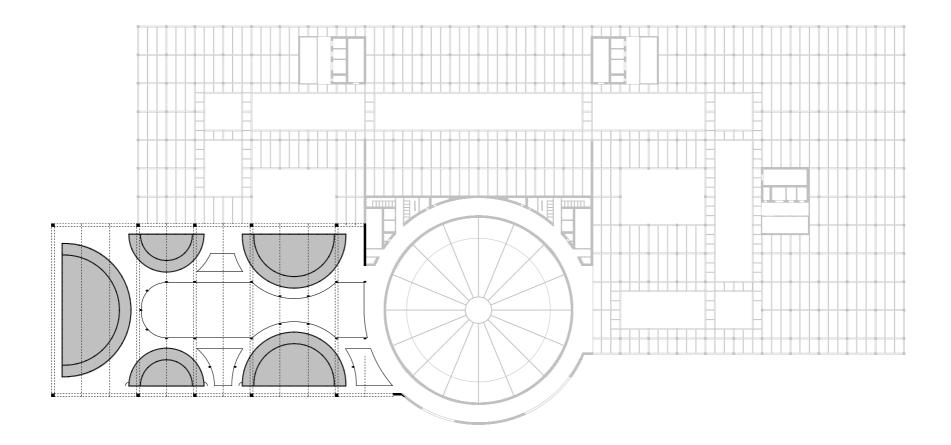




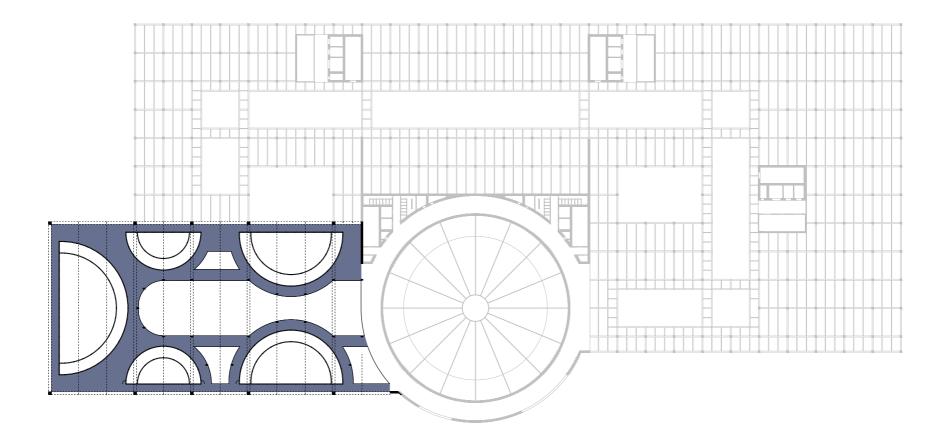
development CABLE NET STRUCTURE



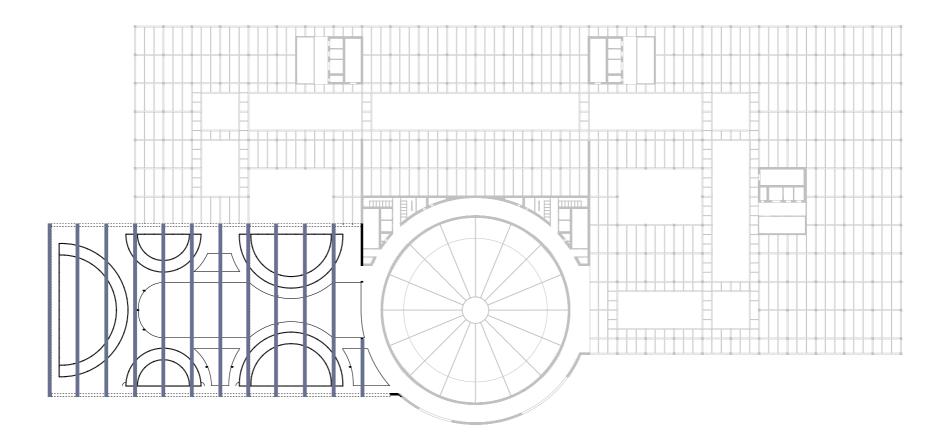
development CONCRETE CHAMBERS



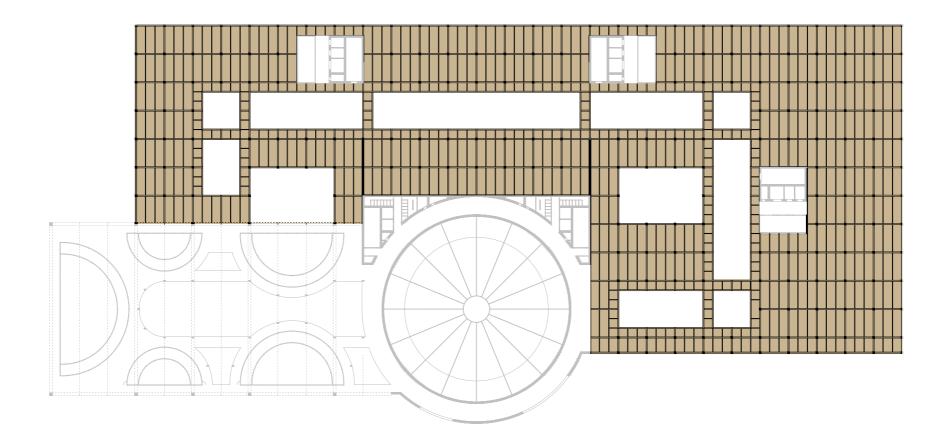
development STEEL TRUSSES



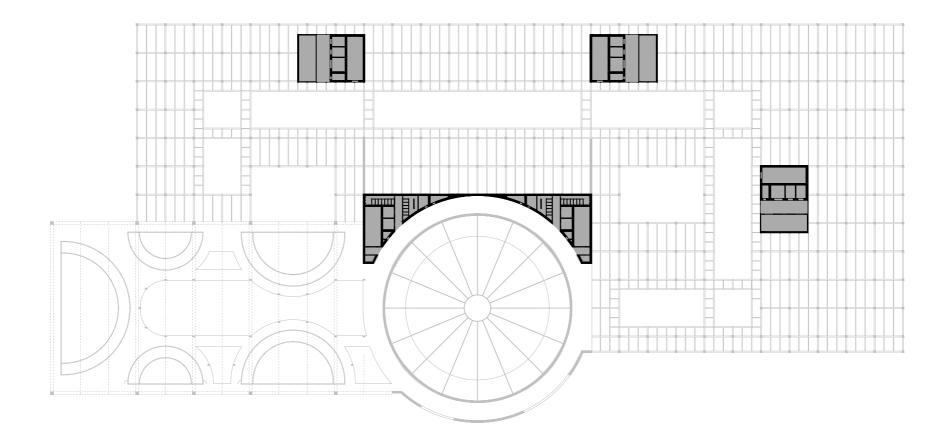
development STEEL TRUSSES



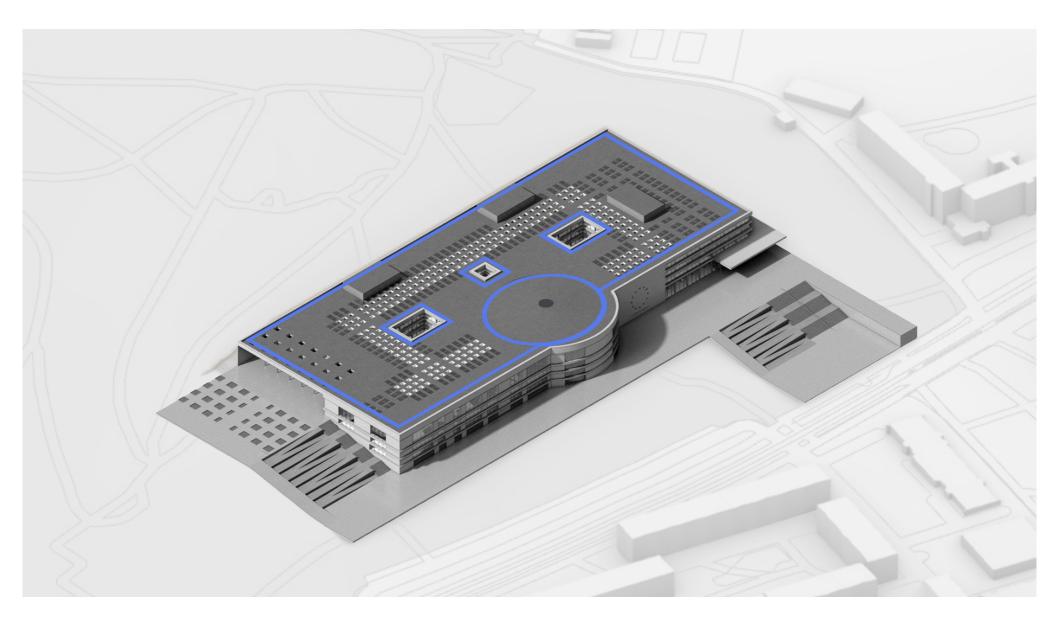
development **MASS TIMBER**



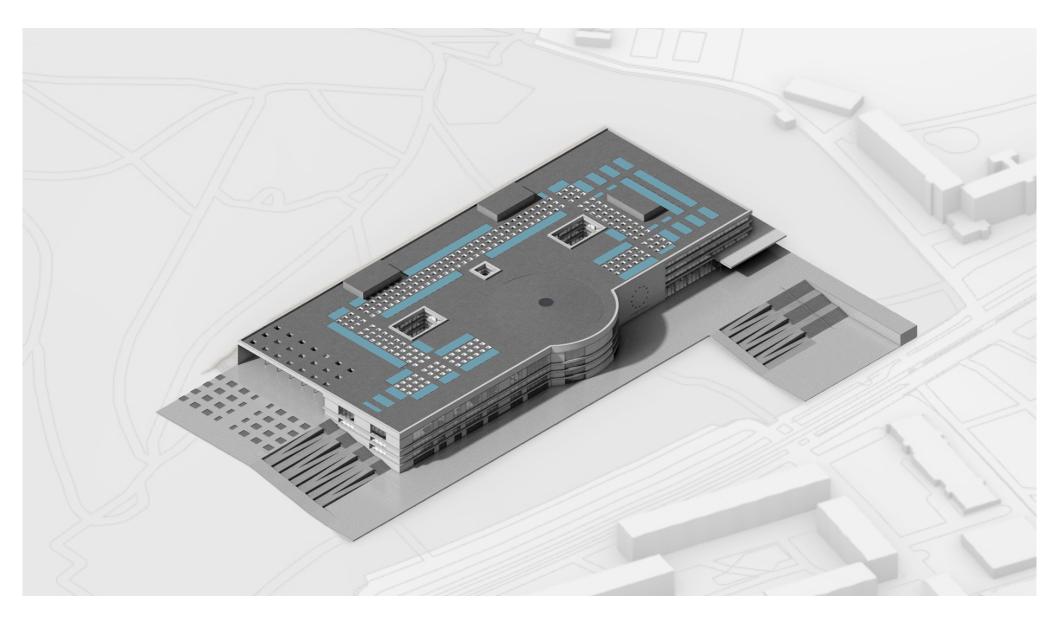
CORES



development WATER COLLECTION







development **HORIZONTALITY**

development ELEVATION SOUTH



development
ELEVATION EAST



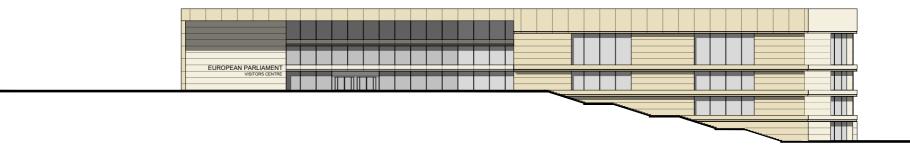
0 5 10 15 25 50 m

development ELEVATION NORTH











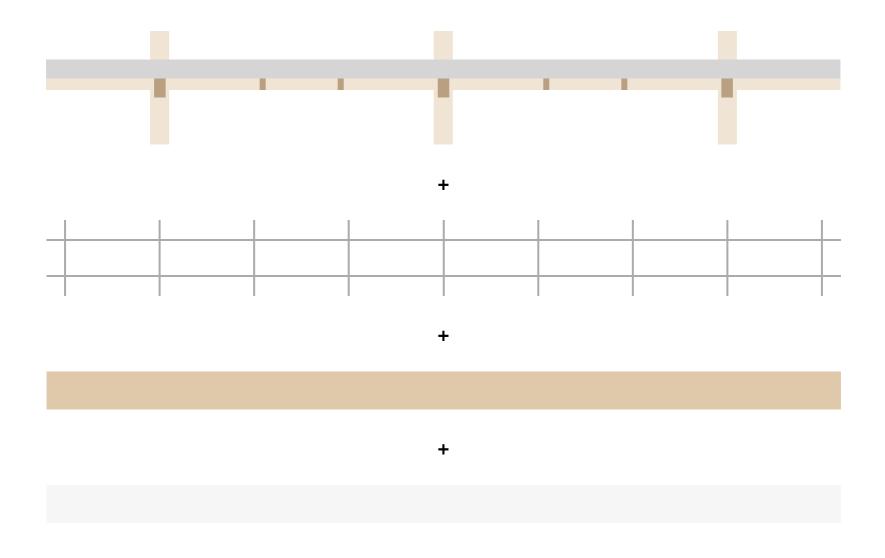




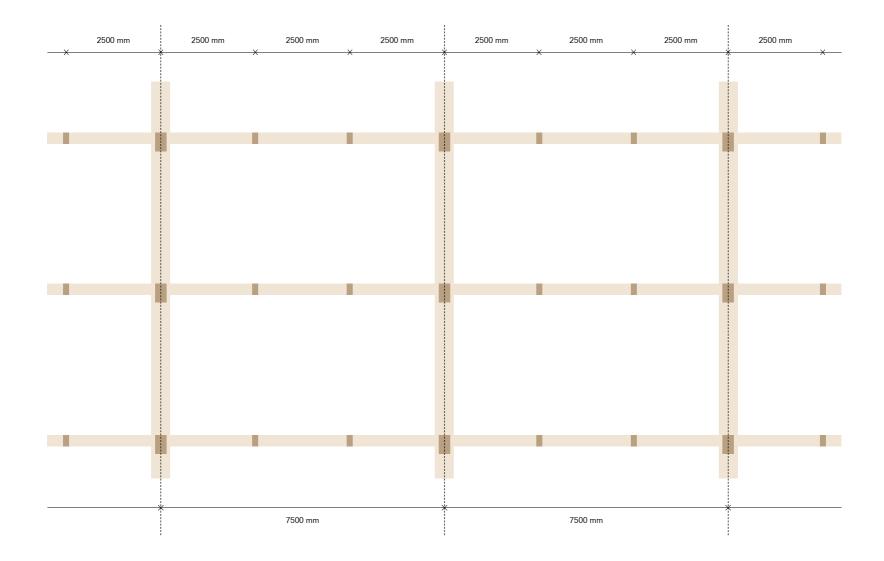




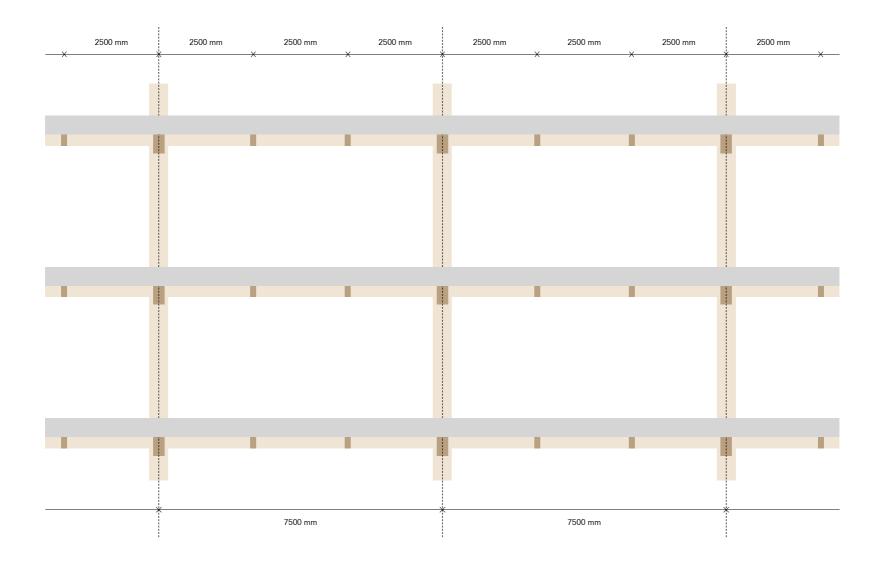
development FAÇADE COMPOSITION



TIMBER FRAME



development **FLOOR SYSTEM**



| 2500 mm |
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development GLAZING + INSULATION

2500 mm	2500 mm	2500 mm	2500 mm	2500 mm	2500 mm	2500 mm	2500 mm
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development **OVERHANG FAÇADE**

2500 mm	2500 mm	2500 mm	2500 mm				
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	7500 mm				7500 mm		

development **OVERHANG FAÇADE**

 2500 mm	2500 mm						
>	K			×			
		7500 mm			7500 mm		

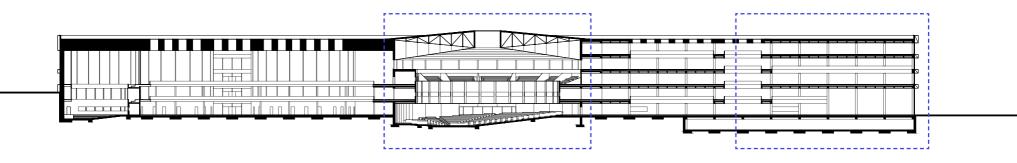




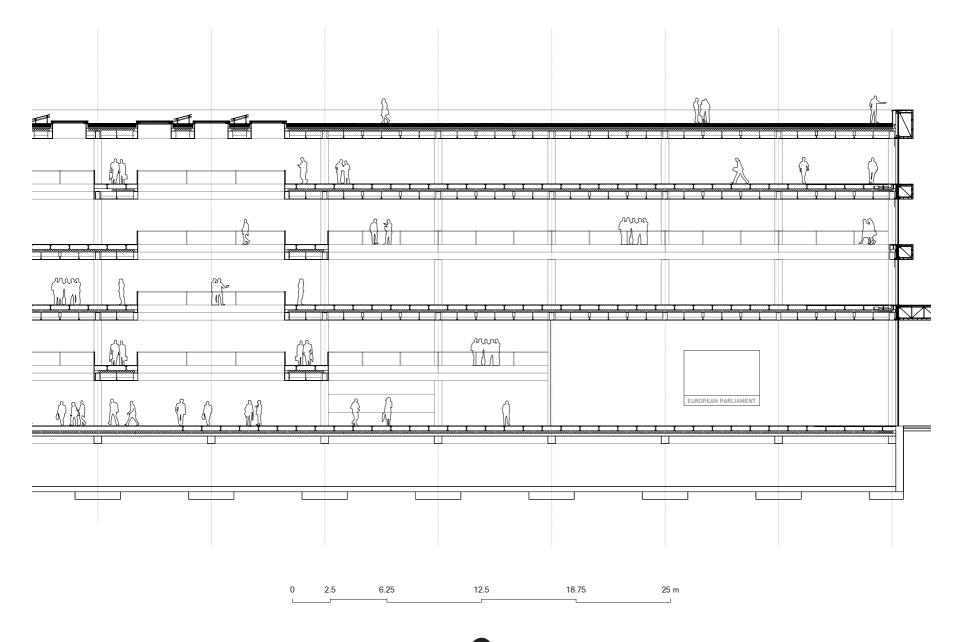
development
CIRCULARITY



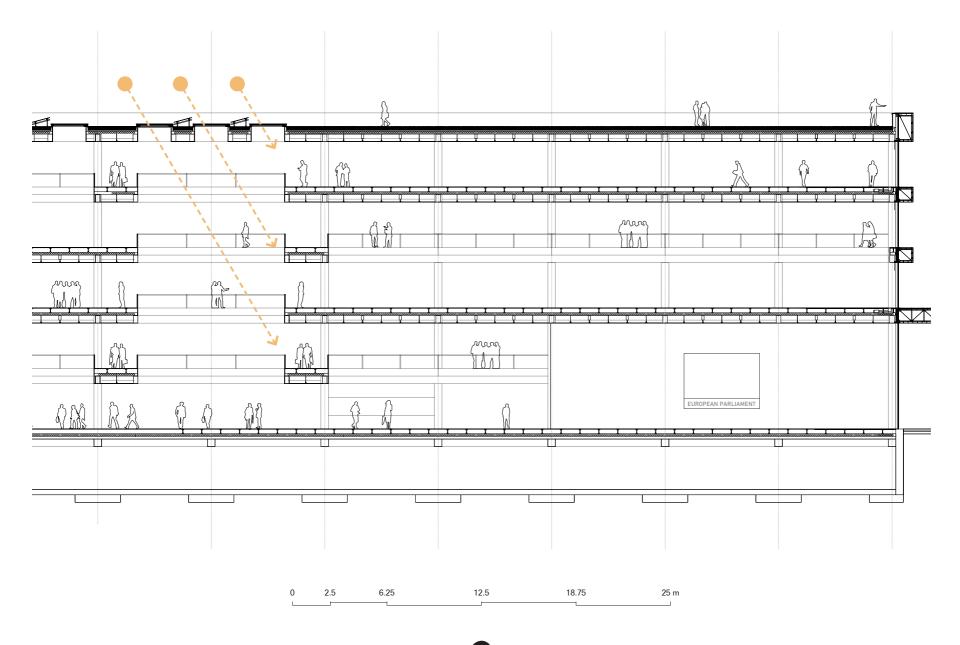
development SELECTED FRAGMENTS



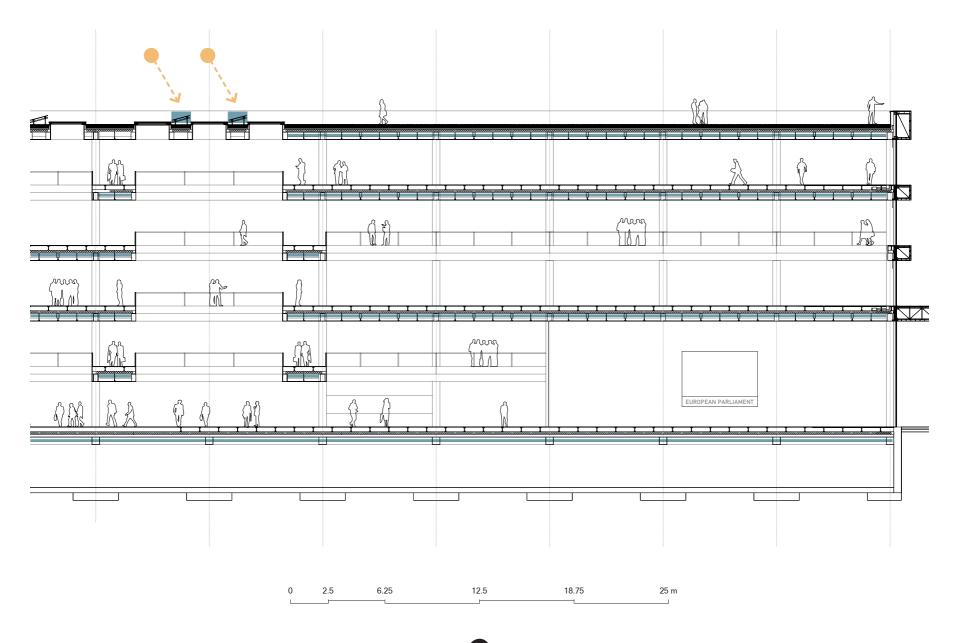
development ENTRANCE 1:50



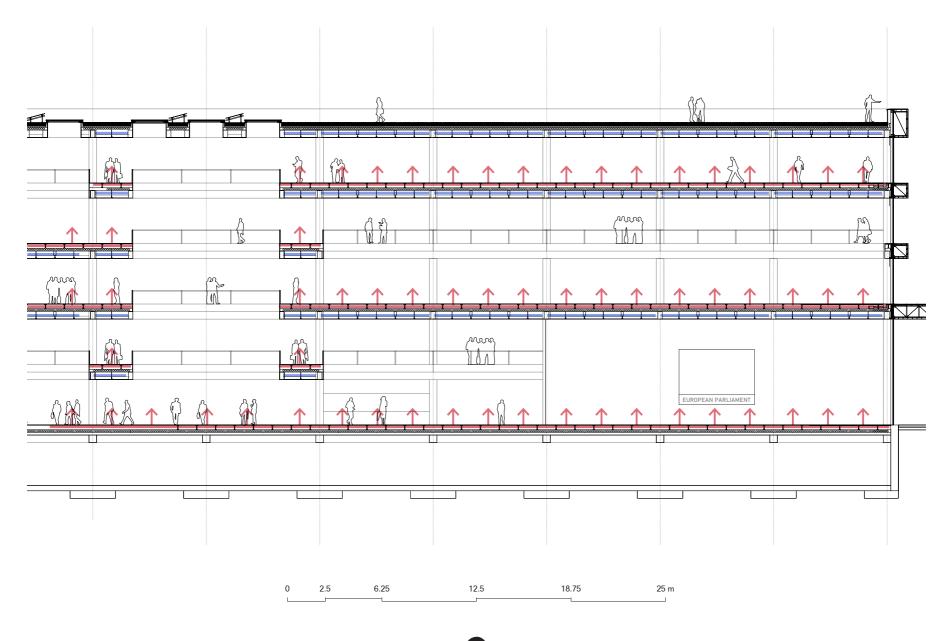
development SUNLIGHT



development **ENERGY**

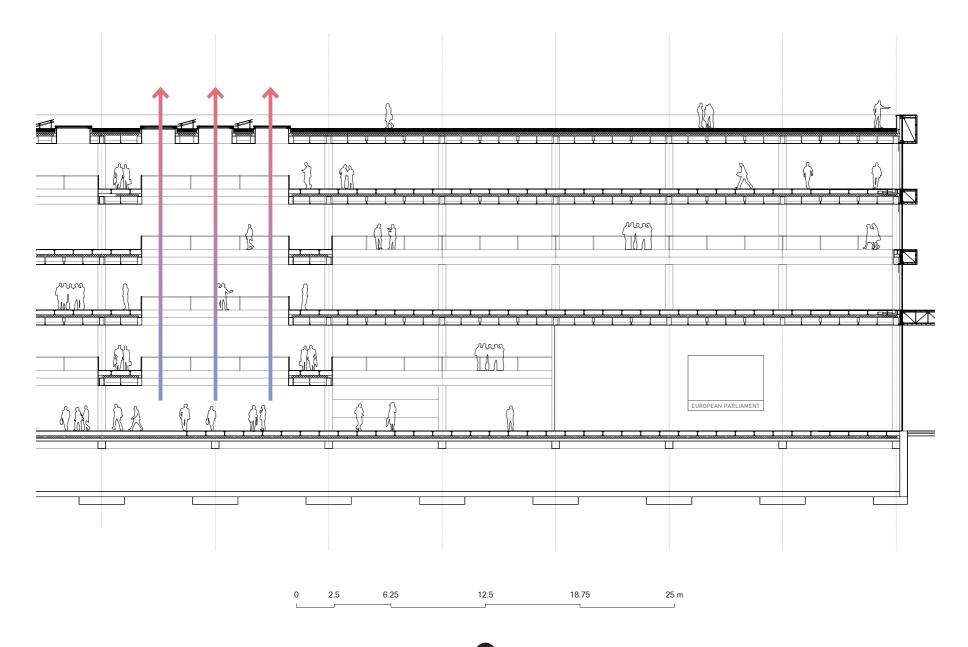


development **HEATING**

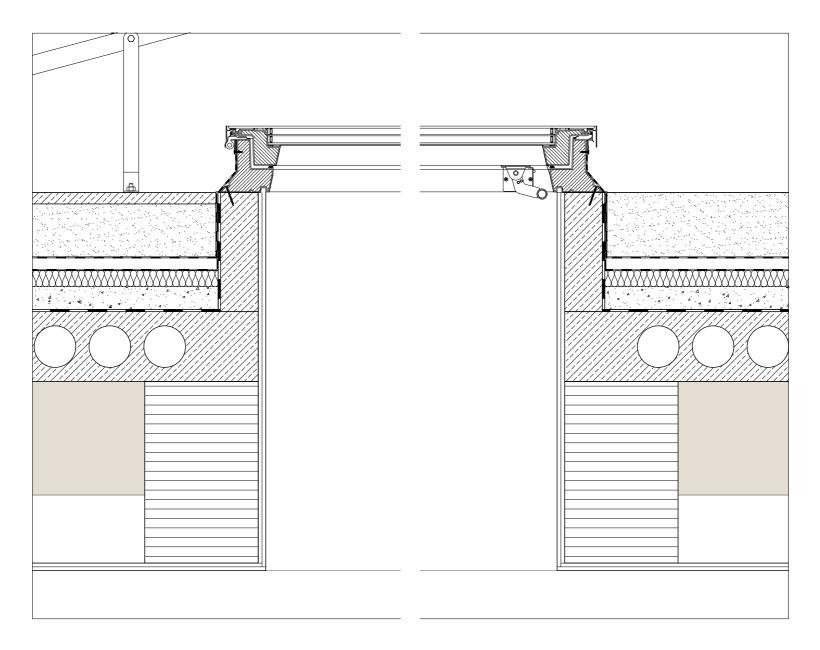




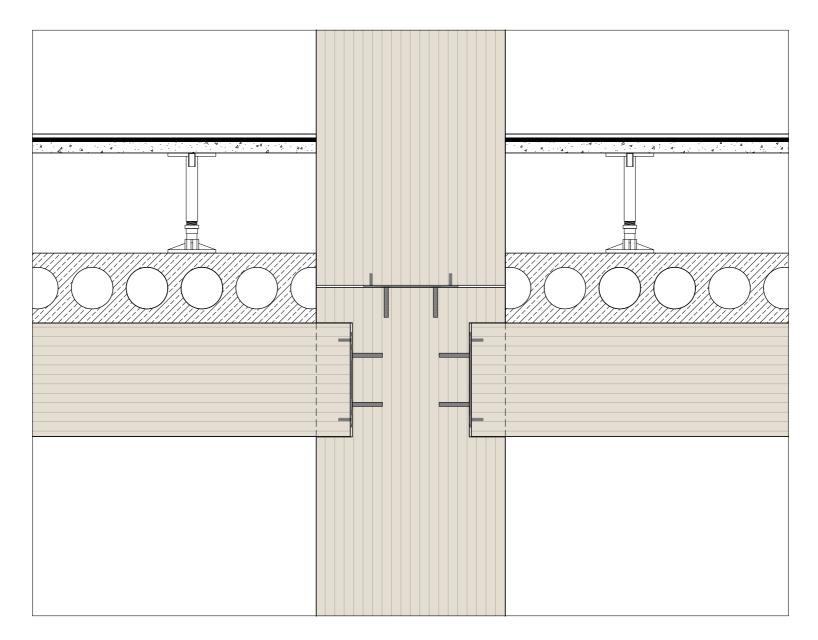
development VENTILATION



development SKYLIGHT 1:5



development COLUMN + BEAM 1:5



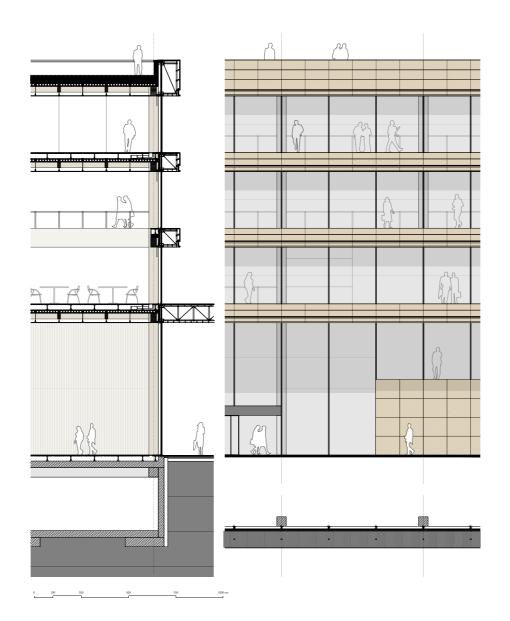




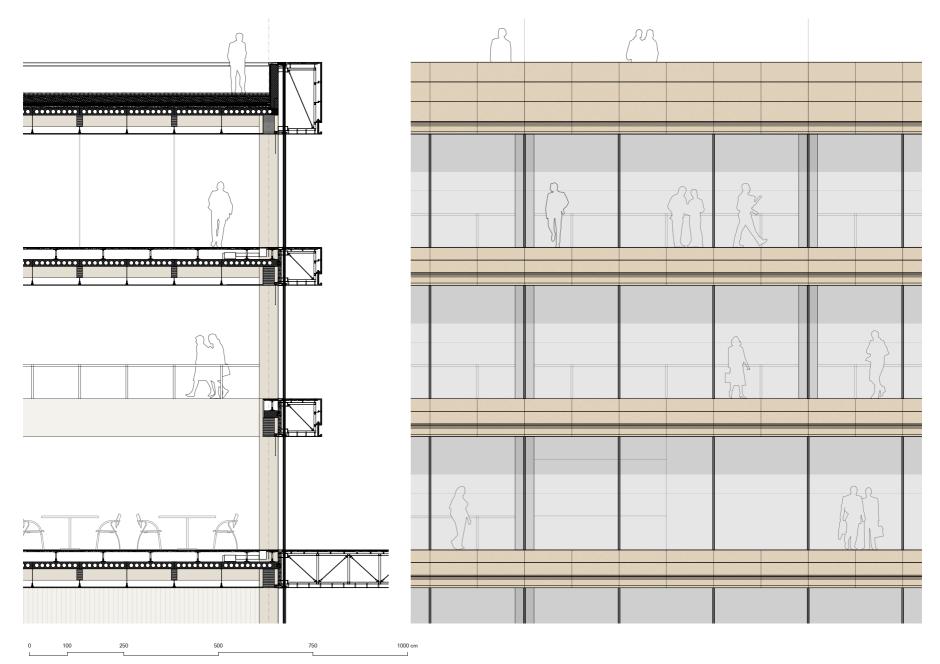




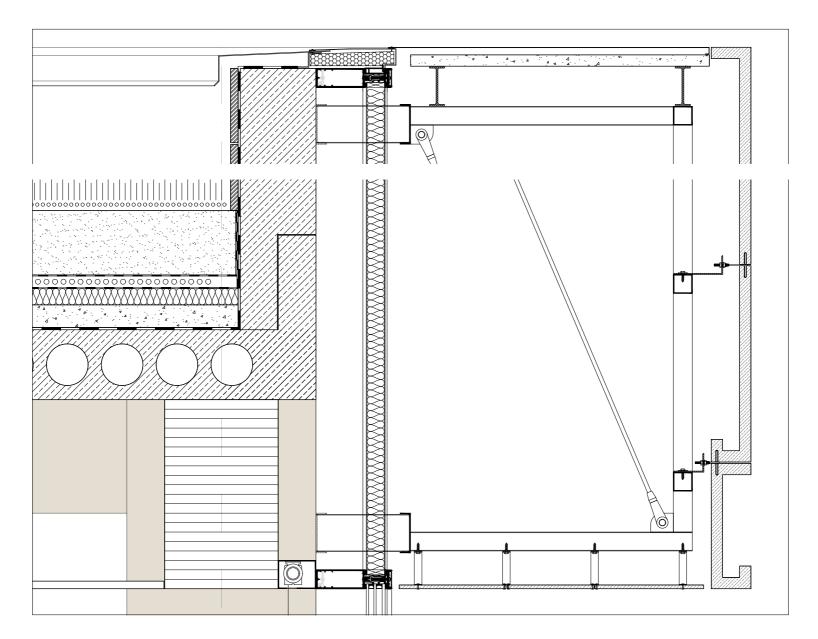
development
ENVELOPE FRAGMENT 1:20



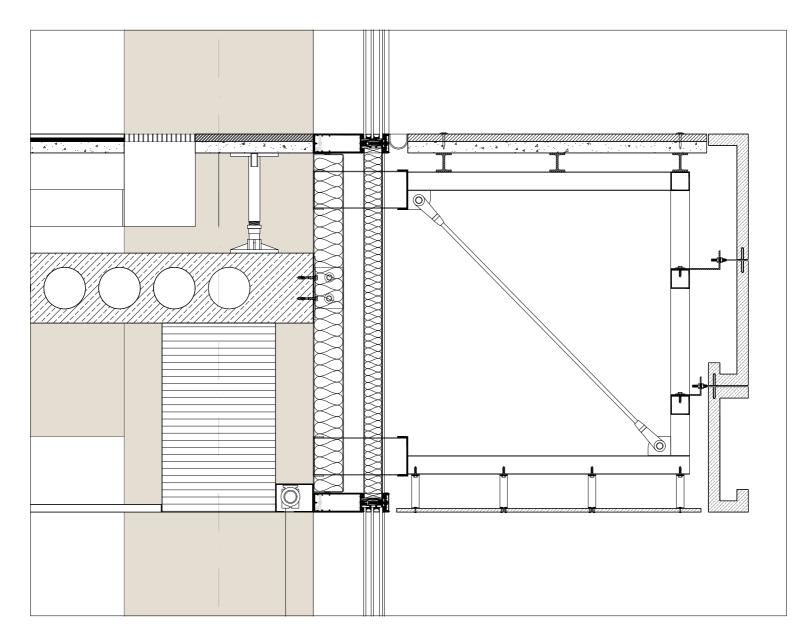
development
ENVELOPE FRAGMENT 1:20



development CURTAIN WALL + ROOF 1:5



development CURTAIN WALL + FLOOR 1:5



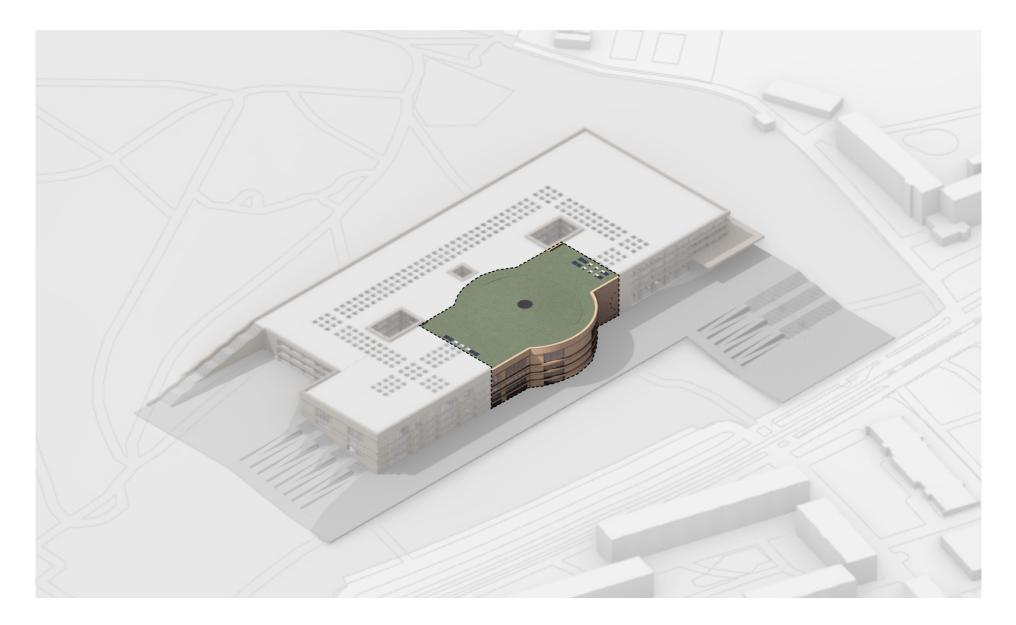
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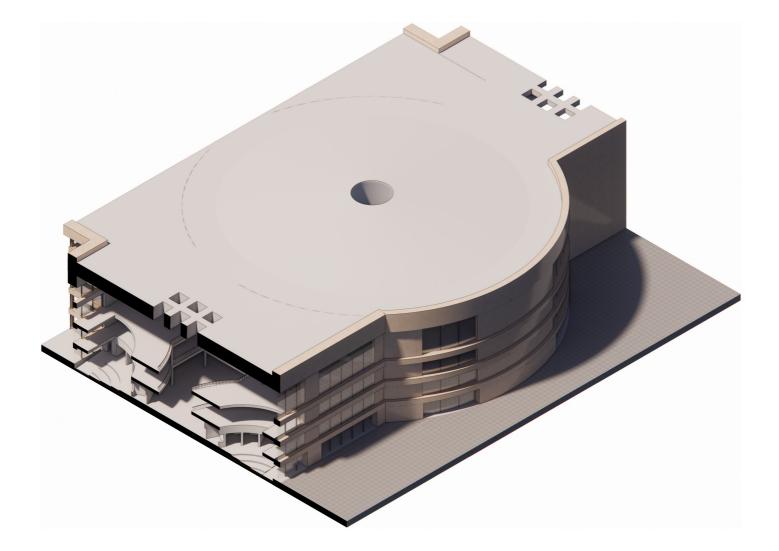




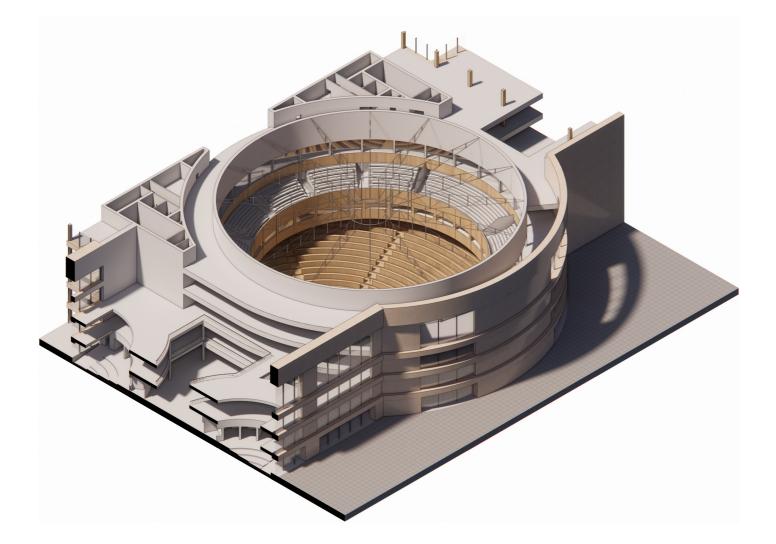






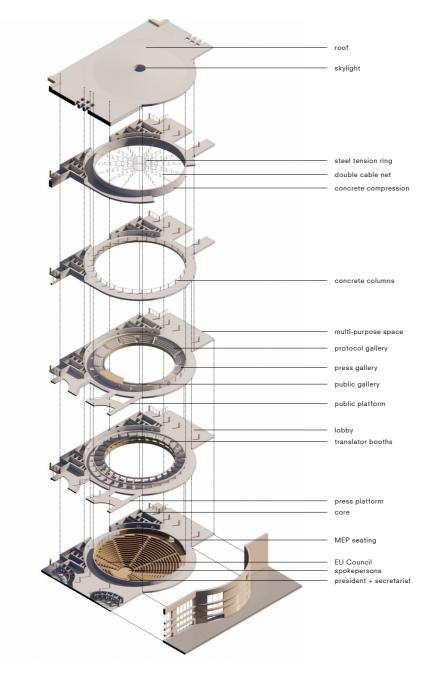






chamber

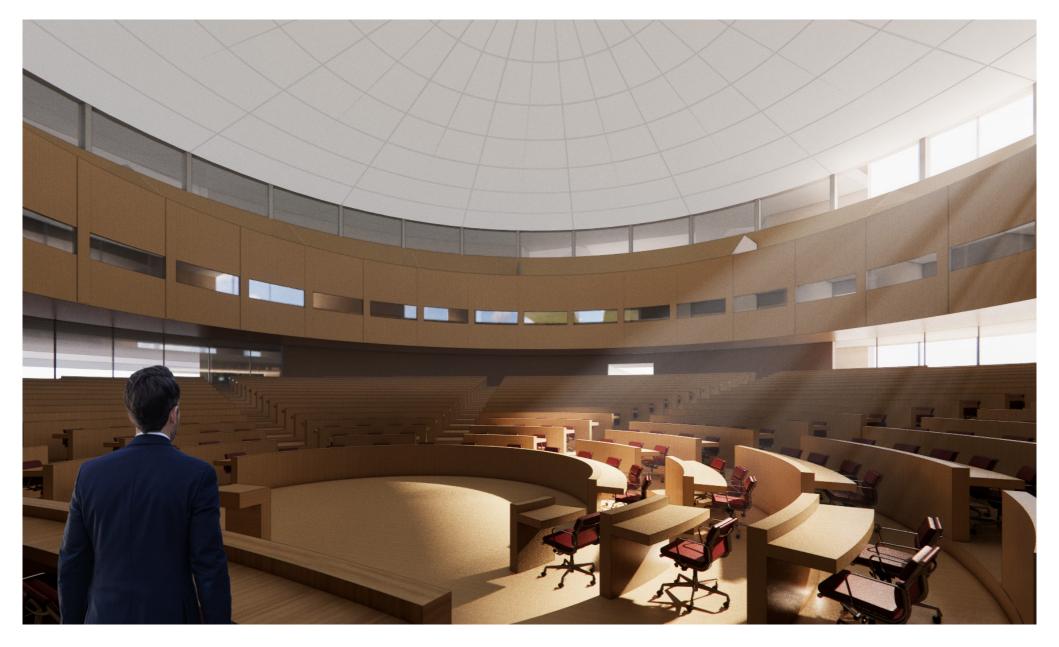
LAYERS



chamber GROUND FLOOR



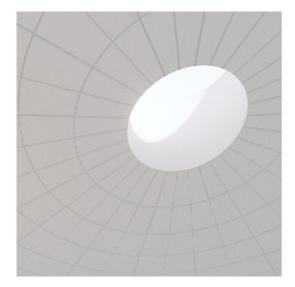
chamber SPEAKER'S PODIUM

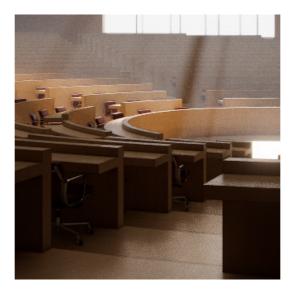


chamber **MEP SEATING**



chamber
ELEMENTS







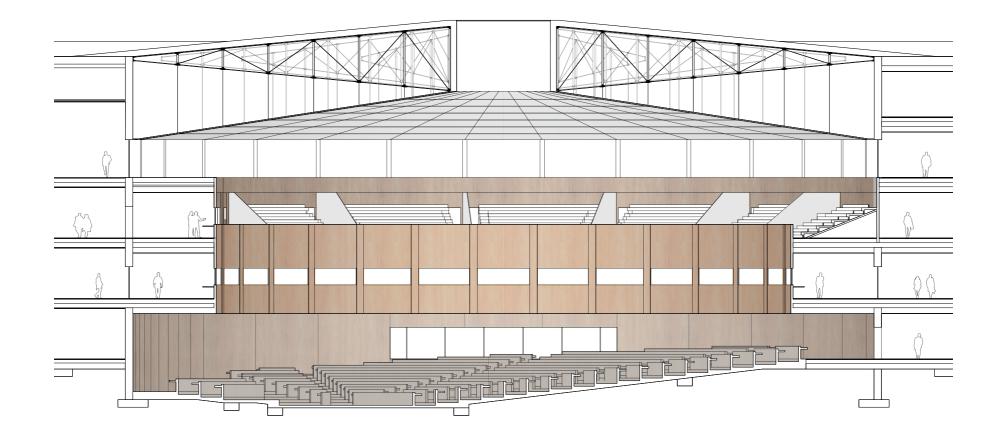
chamber **MATERIALITY**





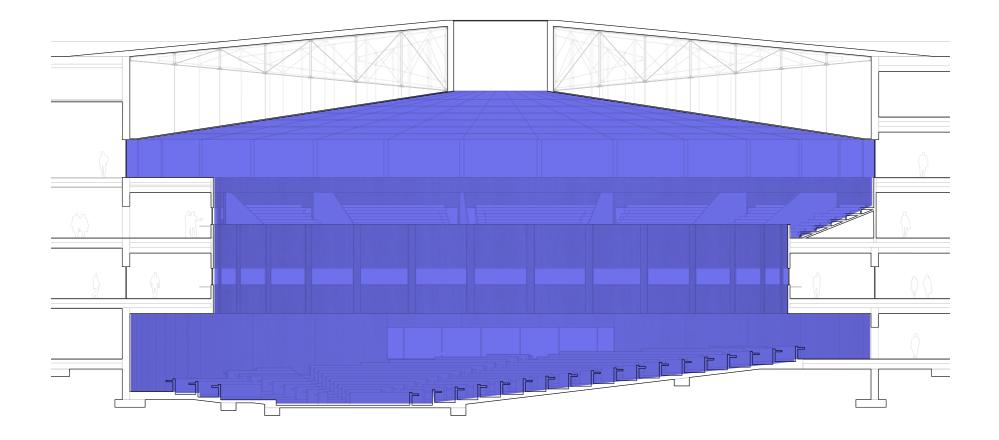


chamber INTERIOR FRAGMENT 1:50



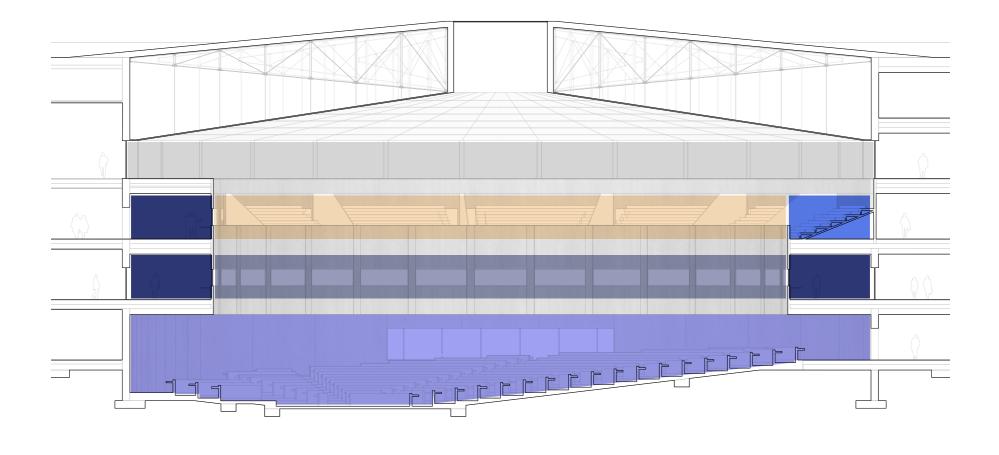


chamber **VOLUME**



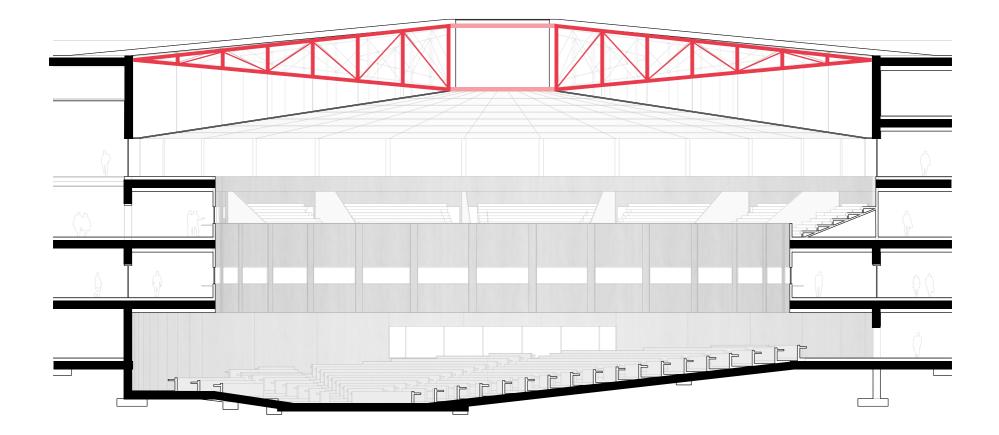


chamber **SPACES**



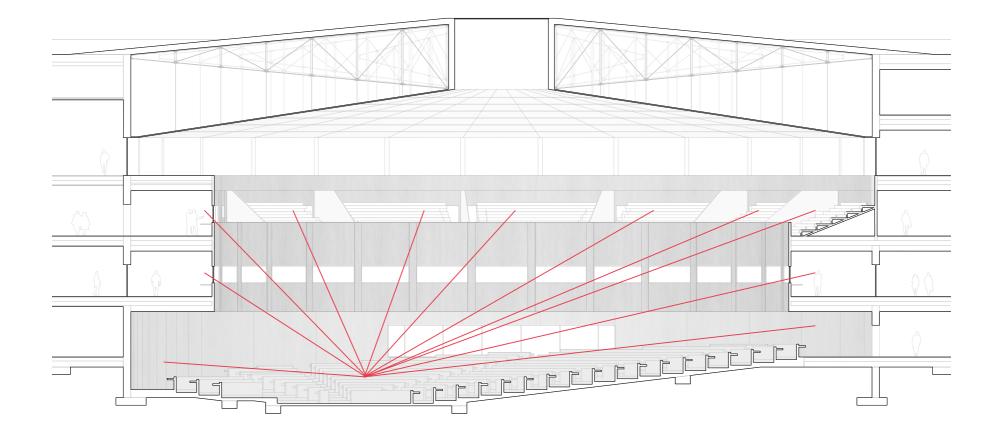


chamber STRUCTURE



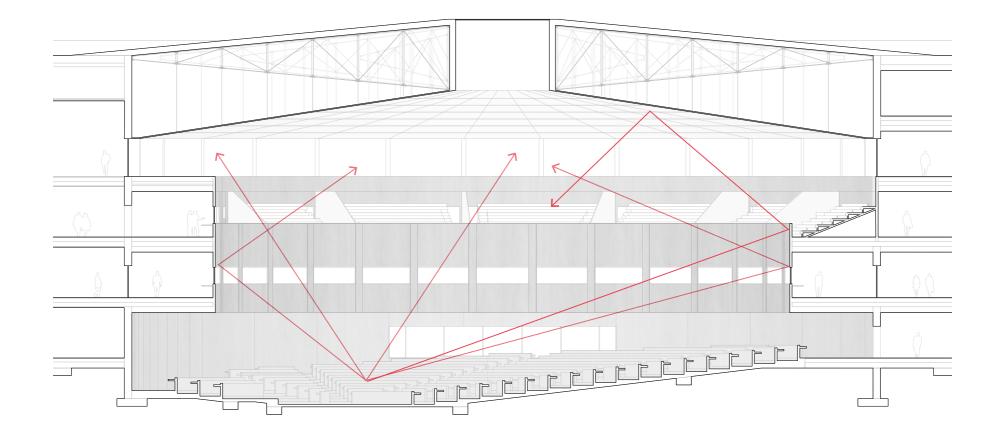


chamber



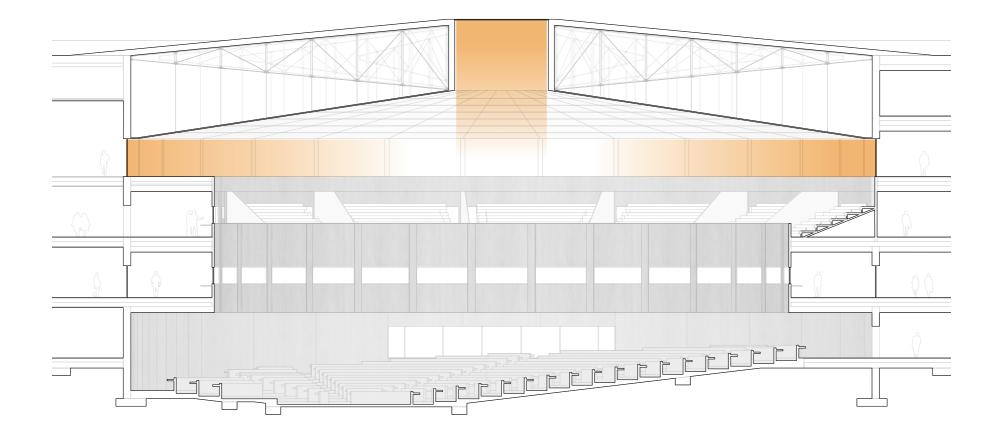


chamber ACOUSTICS



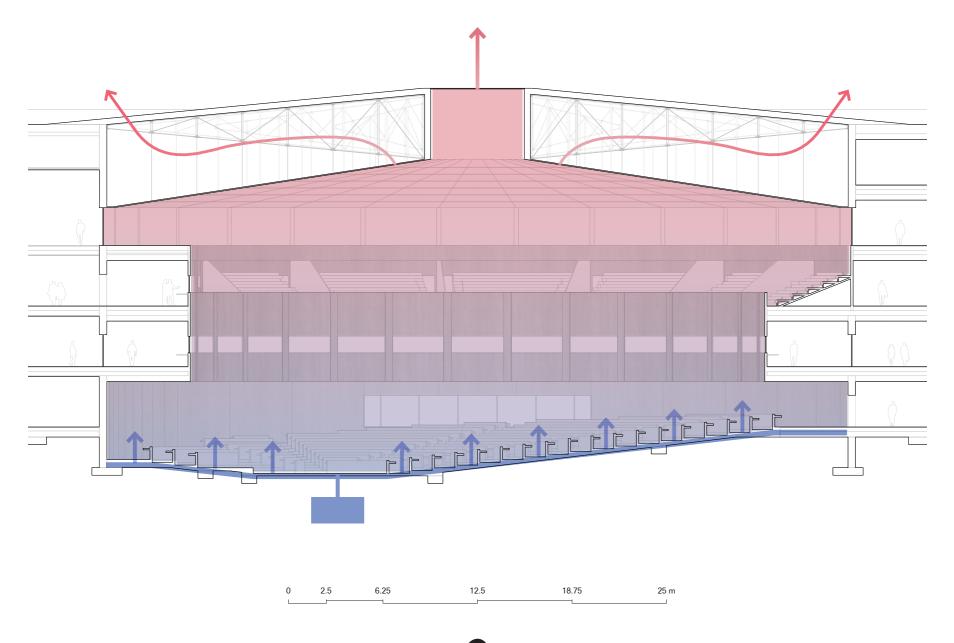


chamber





chamber



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conclusion **RESEARCH QUESTION**

How can a **parliament** building actively engage with the

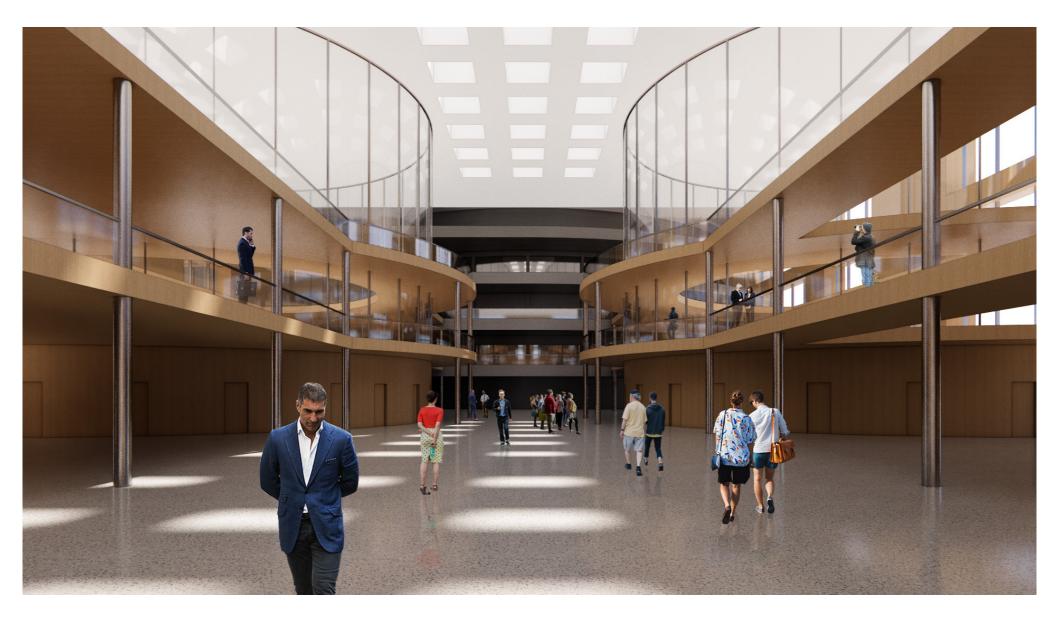
public in an information society?

PUBLICNESS

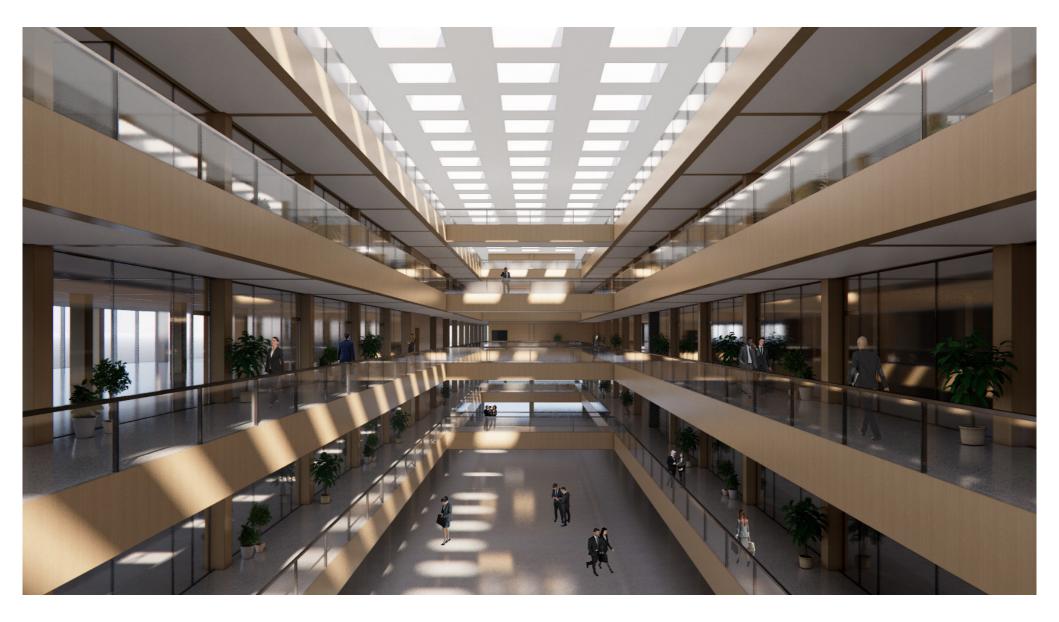




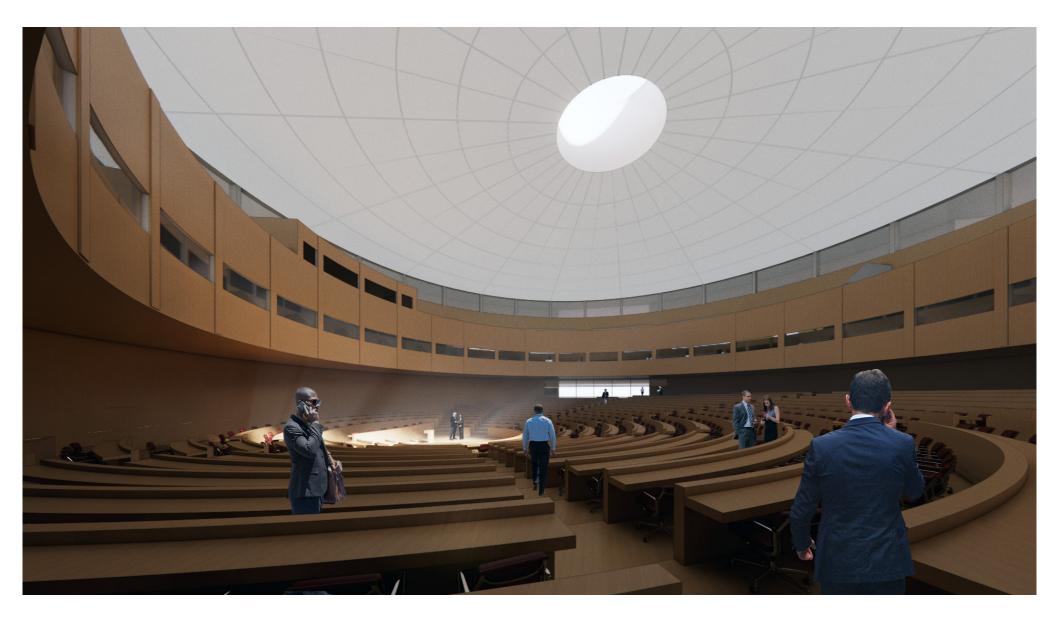














THANK YOU!

Barana

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