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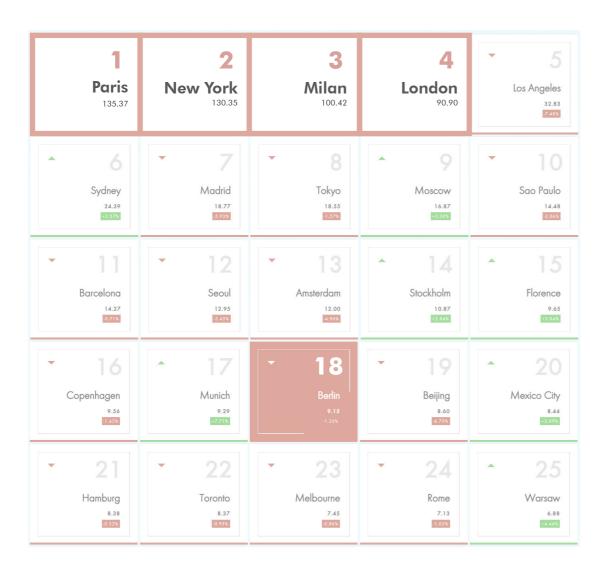
- 1. INTRO
- 2. RESEARCH QUESTION
- 3. DESIGN BRIEF
- 4. URBAN STRATEGY
- 5. CONCEPT & DESIGN
- 6. CONCLUSION

EMERGING SOCIETY OF ART & TECHNOLOGY



Oct. 4th, 2022 Paris Fashion Week: Bella Hadid closed Coperni's ending display with a spray-on dress.

WHAT IS BERLIN'S STANDING IN THE FASHION WORLD?



Nowadays, world fashion is dominated by four fashion capitals. Those capitals often have a rich history, famous brands and designers, and a cluster of resources of fashion media and incidental industry.

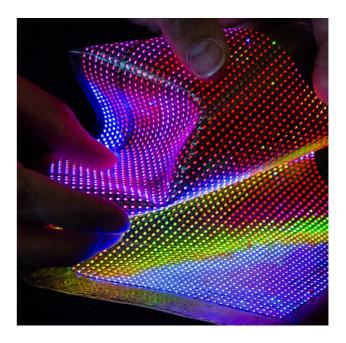
BERLIN'S FOCUS: FASHION INNOVATION





TEXTILE TECHNOLOGIES:

Investigating regenerative textile material through garment waste and new sustainable material innovation.

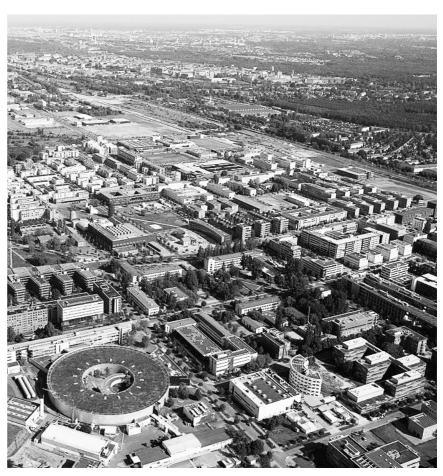


FASHION TECH & WEARABLES:

Integrating technology with mainstream clothing and innovating wearable technology.

BERLIN AS AN INNOVATIVE CITY





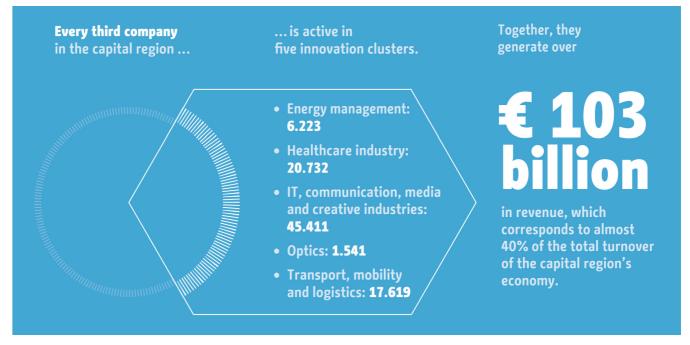
CREATIVITY: Berlin Techno Music

TECHNOLOGY: Adlershof Technology Park

BERLIN STRATEGY:

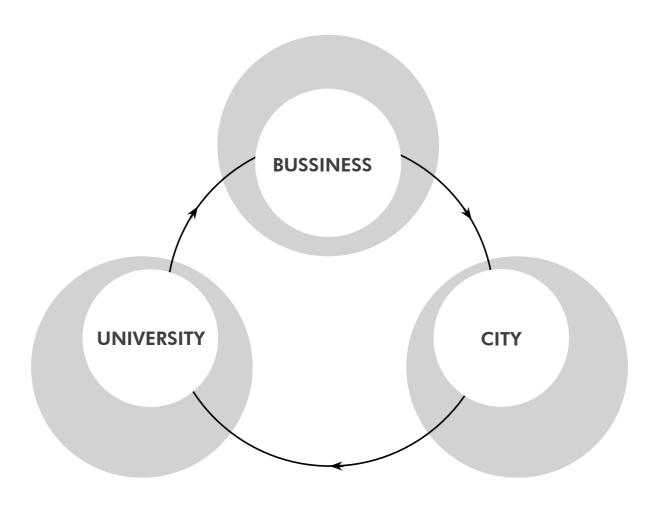
Strengthening the economy with smart knowledge





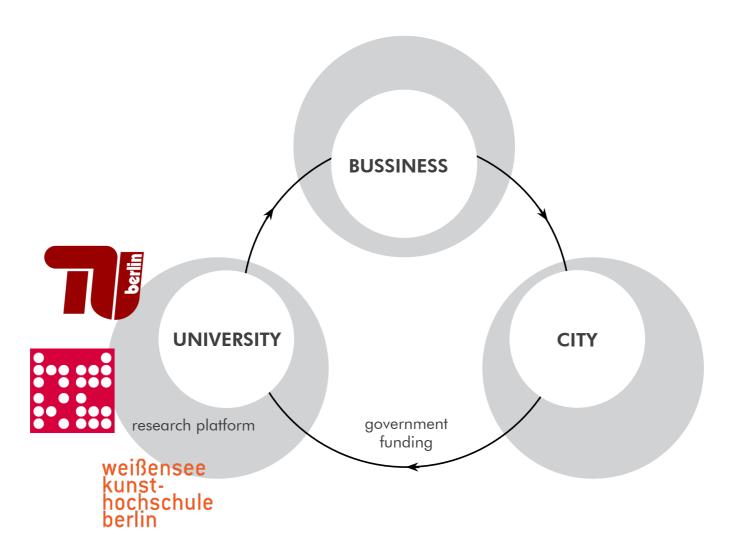
HOMs

Close connection between three parties



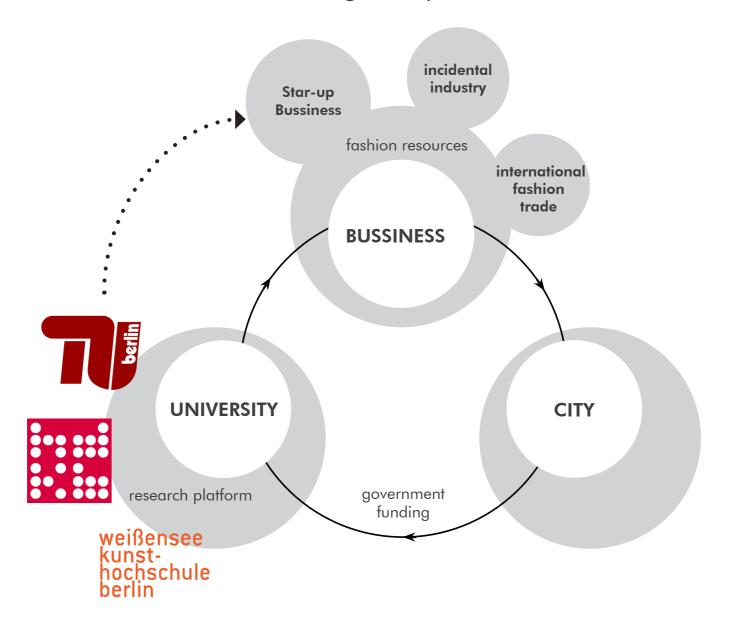
UNIVERSITY

University Platforms + Interdisciplinary Research



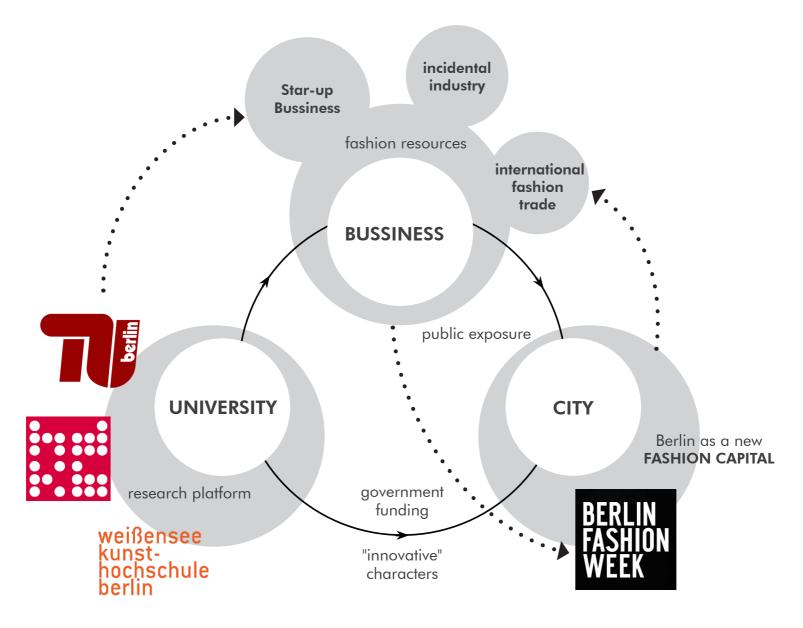
BUSSINESS

Promoting Starups Bussiness

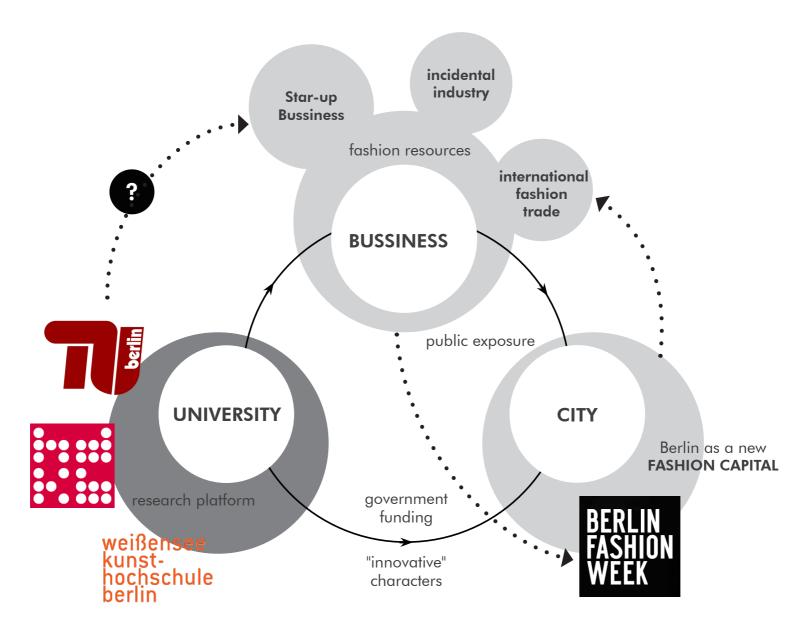


CITY

Using city event to increase public exposure Berlin's fashion



WHAT DOES BERLIN NEED?





EDUCATE

COLLABORATE WITH EXISTING UNIVERSITY RESEARCH PLATFORMS,

IMPROVING NETWORKING BETWEEN LEARNING INSTITUTIONS





DRL is a network of people, organisations, and non-human agents engaged at the intersection of technologies, materials, and social practices.





Hybrid Plattform

The platform serves the cross-disciplinary exchange of art, science and technology, located at the heart of the Campus Charlottenburg, Berlin.

weißenses kunsthochschule berlin

Textile Prototyping Lab

TPL is a research alliance of five institutions from the fields of textile research, design, and industry. Its aim is to conceive, install, and test a laboratory for textile prototypes based on the idea of open innovation.

RESEARCH

INNOVATIVE & INTERDISCIPLINARY RESEARCH,

INTENSIFYING KNOWLEDGE AND TECHNOLOGY TRANSFER









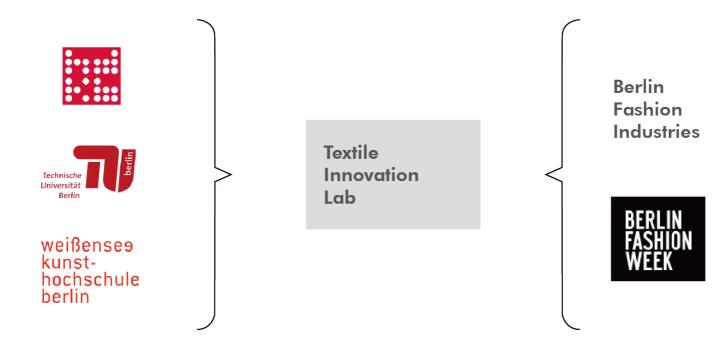




CONNECT

LINK BETWEEN THE RESEARCH AND FASHION BUSSINESS.

ENCOURAGING START-UP BUSINESS.



PROMOTE

INTRODUCE NEW DIRECTION OF FASHION,

PROMOTING BERLIN AS NEW FASHION CAPITAL

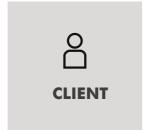


RESEARCH QUESTIONS

How can a research lab strengthen the fashion development of Berlin?

- 1) What kind of spatial quality and requirement does the building need to accommodate lab researchers and textile-related innovation?
- 2) How can the lab intensify the communication between researchers and businesses?
- 3) How does the building satisfy the city's ambition of being one of the futural fashion capitals?

DESIGN BRIEF





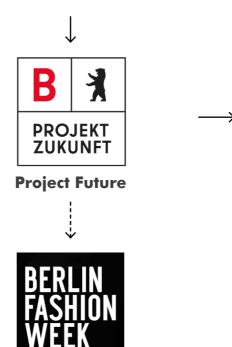


INITIATOR: BERLIN GOVERNMENT



Senate Department for Economics, Energy and Operations







Government view this project to be a fashion desitination point at Berlin, a markble location where be able to hold fashion activities and city event.

A FASHION DESITINATION



STOCKHOLDER: UNIVERSITY & BERRLIN FASHION WEEK



















USERS





RESEARCHERS



STUDENTS



STARTUP COMPANY



PROGRAM BAR

TEXTILE INNOVATION LAB

Floor Area: 16,000 m²

20% RESEARCH 3,200 m² 28% LAB 4,480 m² **5% ADMIN** 800 m² **10% AMENITY 12% EXHIBITION** 1,920 m² **25% REST** 4,000 m²

7% project rooms **5%** seminar, studio **3%** library **2%** department office **3%** startup office **8%** open workstation 3% chemistry research lab color & print **4%** technology lab **5%** knitting & circular lab 5% weaving technology lab 3% micro-run production la 1% reception/security **3%** administration office 1% IT support **2.5%** canteen 2% cafe/ social lounge **4%** store 1.5% atrium 2% auditorium **8%** exhibition 2% events 9% mechanical space **16%** rest

PROGRAM

RESEARCH AREA



PROJECT ROOM



SAMPLE LIBRARY



OPEN RESEARCH AREA



CONFERENCE ROOM

PROGRAM

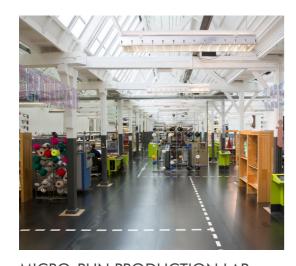
LAB AREA



WEAVING TECHNOLOGY LAB



OPEN WORKSTATION



MICRO-RUN PRODUCTION LAB



KNITTING & CIRCULAR LAB



CHEMISTRY RESEARCH LAB



COLOR & PRINT TECHNOLOGY LAB

KEY SPACE | LAB & RESEARCH



WET LAB: chemistry





DRY LAB: large equipment













OPEN ACCESS to all the researchers and students.



PRIVATE ACCESS to individual research group



OPEN ACCESS to all the researchers and students.

AMENITY AREA: Recreational & Social Purpose



SOCIAL LOUNGE



CANTEEN

PROGRAM

"FASHION" RELATED AMENITY FOR PUBLIC



SOCIAL LOUNGE



CANTEEN



POP-UP STORE



LOCAL DESIGNER STUDIO

PROGRAM

ACTIVITIES DURING BERLIN FASHION WEEK



FASHION RUNWAY



FAIRS



EXHIBITION & MUSEUM



PANEL TALK

"SHOW & DISPLAY" | ATRIUM + EXHIBITION



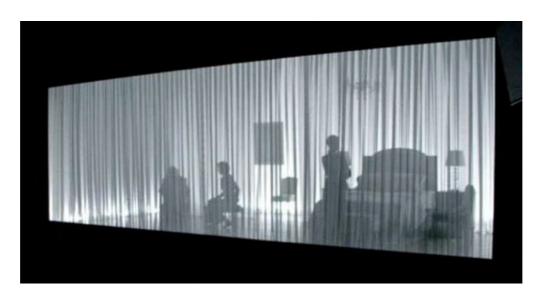
Tate Modern, Little Sun, 2012



Tate Modern, Little Sun, 2012

PROGRAM

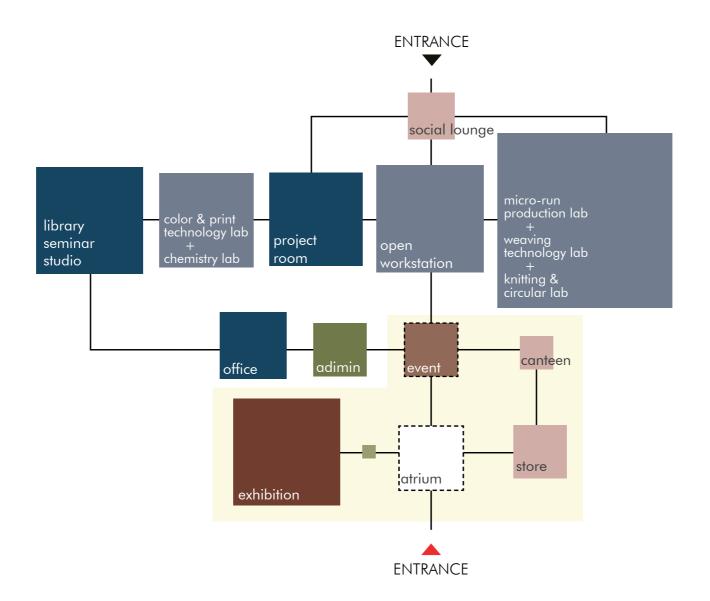
"SHOW & DISPLAY" | LAB + STAGE





PROGRAM

PROGRAM RELATION



LOCATING SITE WITH THREE PARTIES



berlin urban strategy

define the transformation area and set geographical priorities that provide a tangible framework for Berlin Strategy 2030



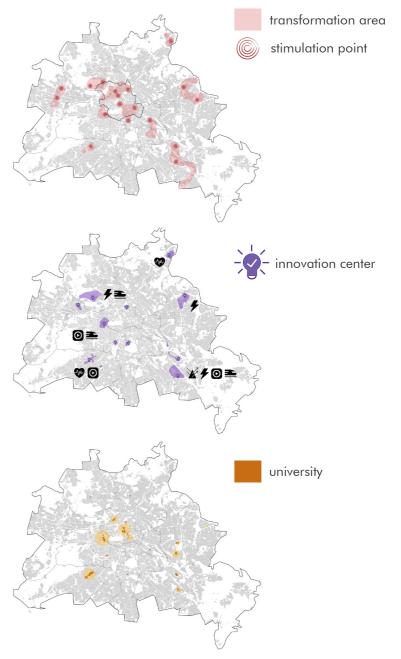
innovation business cluster

identify the bussiness cluster relates to five Berlin's innovative focues

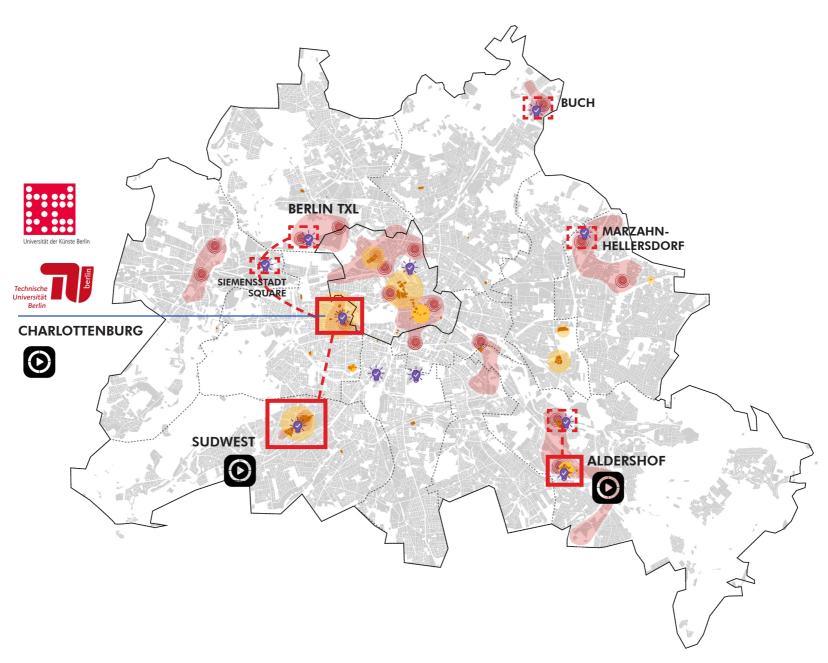


university and student population

identify the location of university and student population.



CHARLOTTENBURG



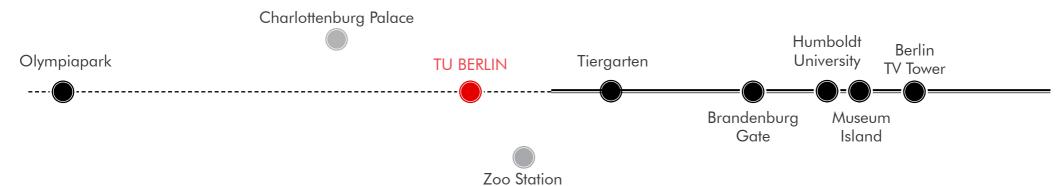
SITE

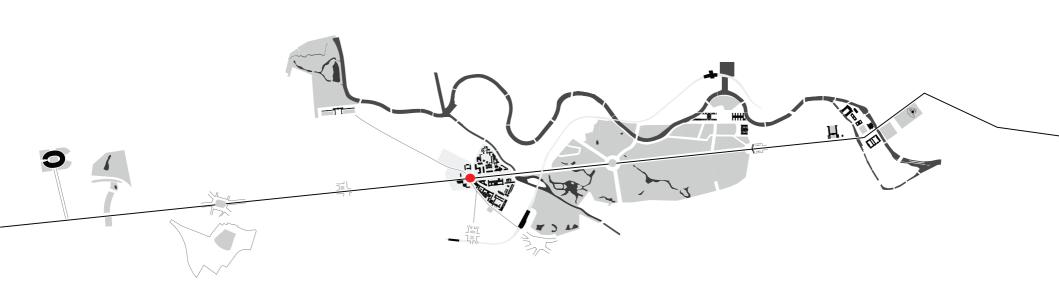
ERNST-REUTER-PLATZ



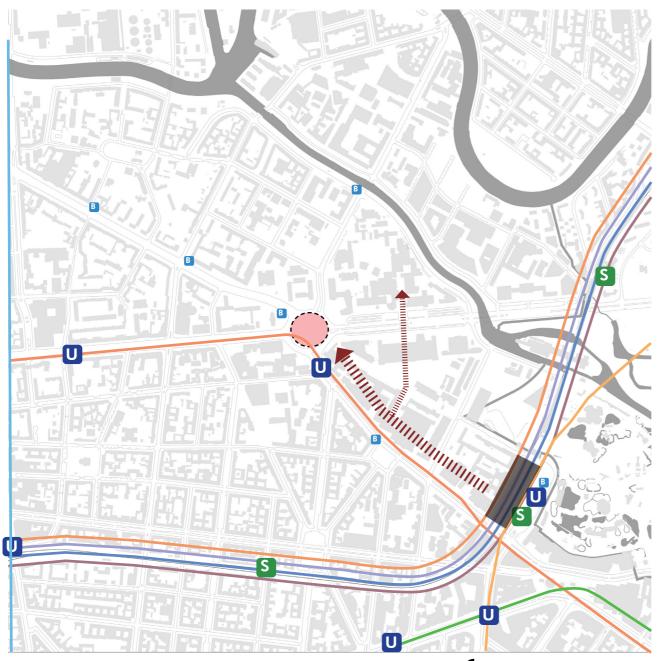
complex projects

CITY AXIS: CHARLOTTENBURG & MITTE





WELL-CONNECTED PUBLIC TRANSPORTATION



STATION: Ernst-Reuter-Platz

U U-Bahn LINE 2

15 mins walking to ...

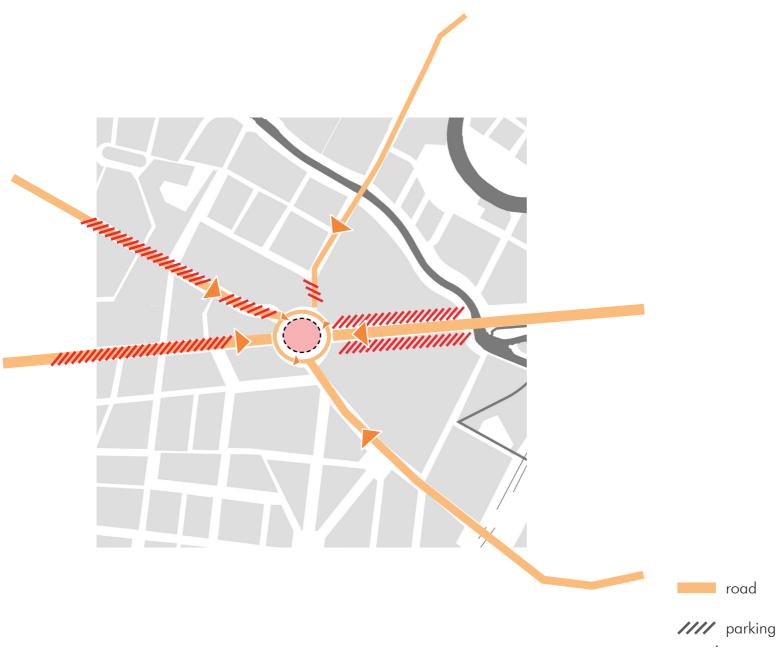
TRAIN STATION: Zoologischer Garten

S \$3, \$5, \$7, \$9

U-Bahn LINE 2

В

BILLBOARD EFFECT, "HIGH EXPOSURE"



CONCLUSION FROM DESIGN BRIEF



CONCLUSION FROM DESIGN BRIEF



CONCLUSION FROM DESIGN BRIEF

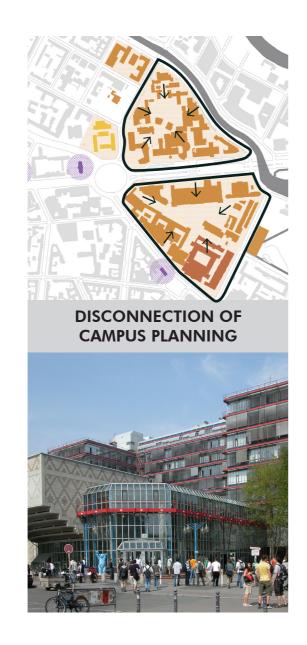




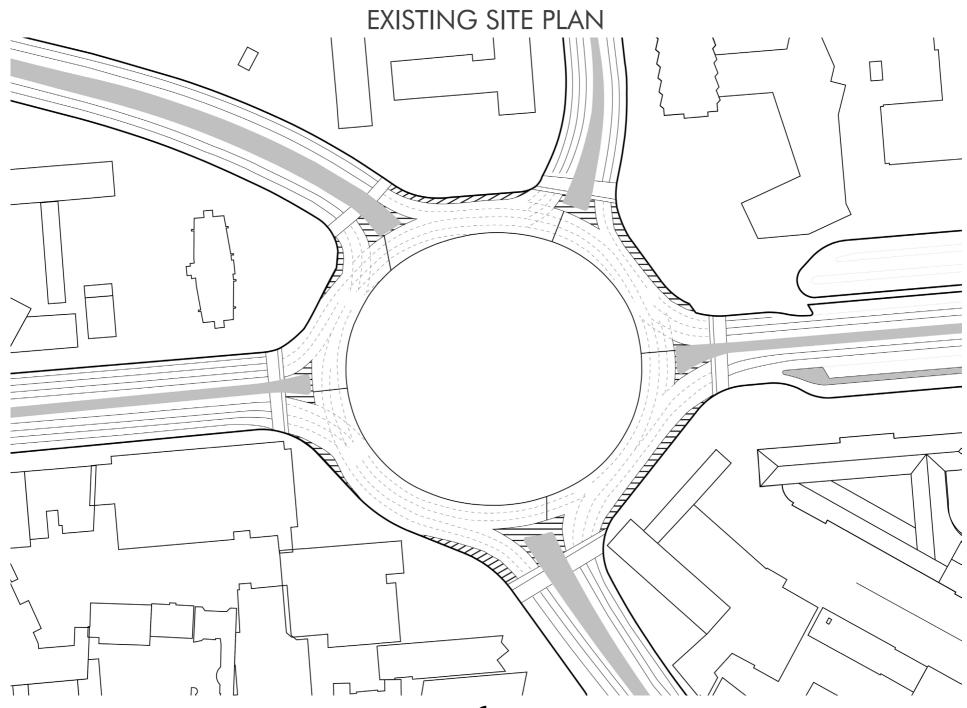
current design does not serve its function as "park"



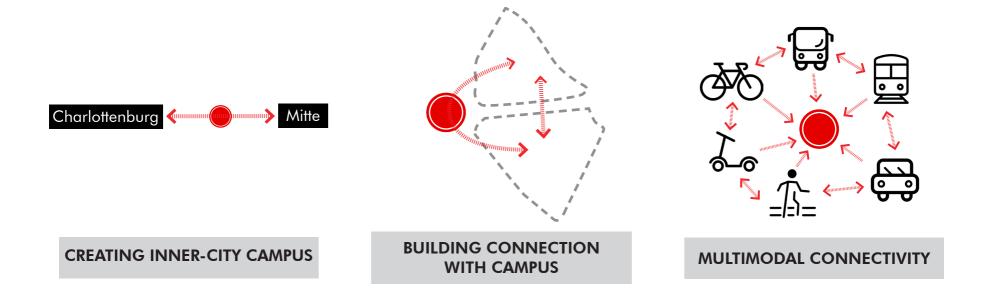
EXISTING PROBLEMS



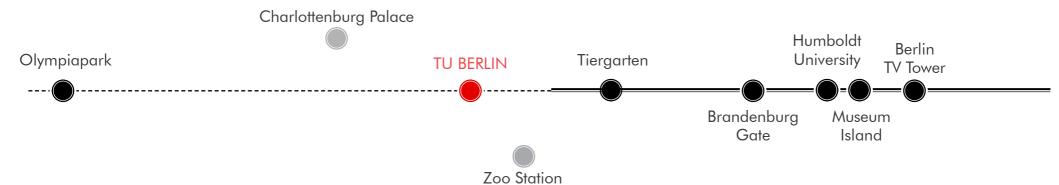


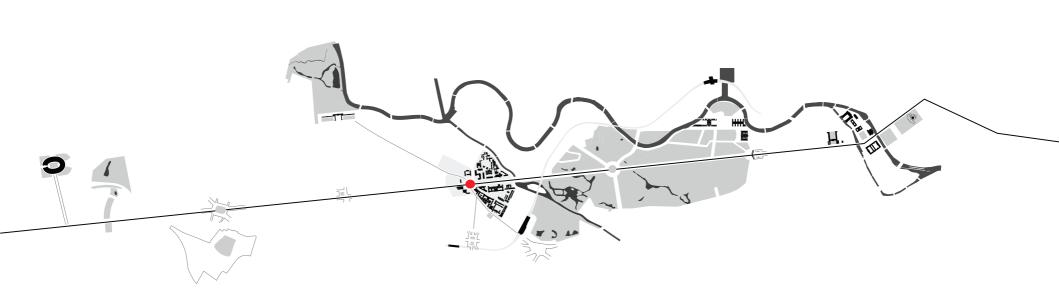


NEW URBAN VISIONS: making connections



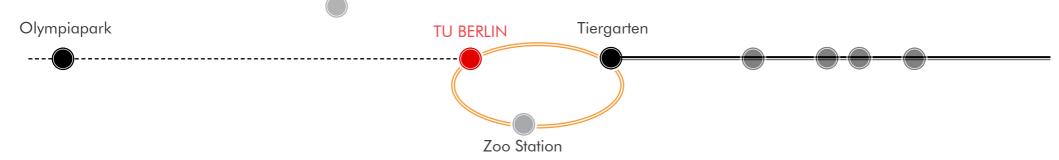
CHARLOTTENBURG & MITTE

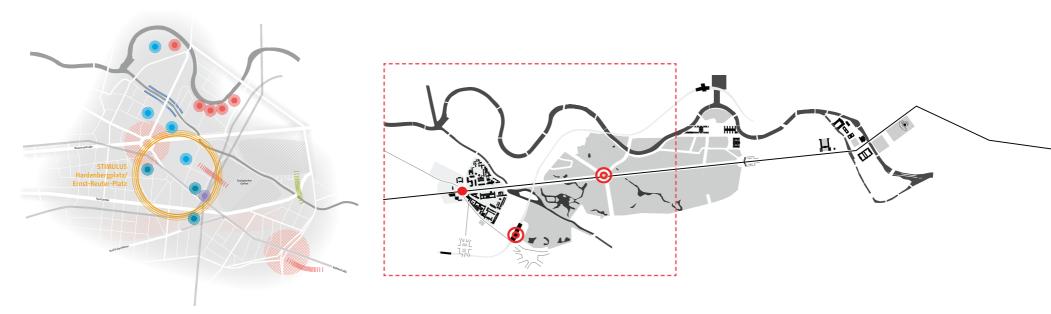




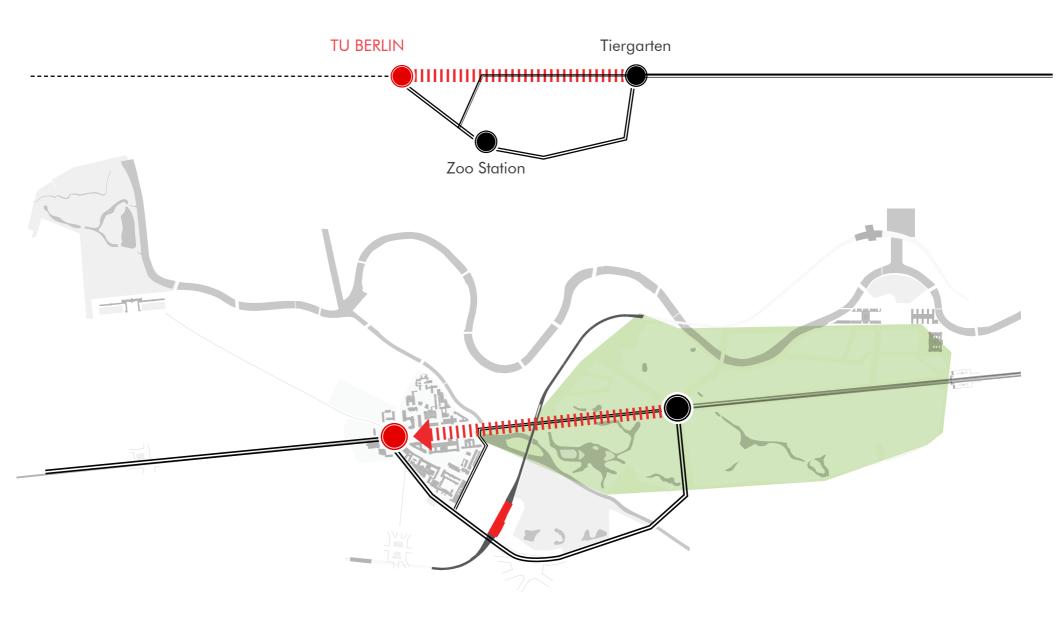
INNER-CITY CAMPUS

Charlottenburg Palace





INNER-CITY CAMPUS



GREEN WALK + UNIVERSITY CAMPUS





GREEN WALK: a continuation of Tiergarten, a pedestrian-only street

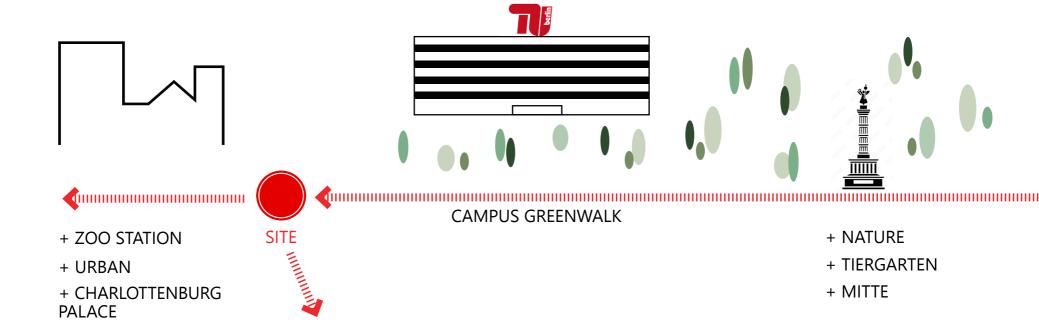


TRANSITION FROM WOODS TO URBAN



- + TIERGARTEN
- + MITTE

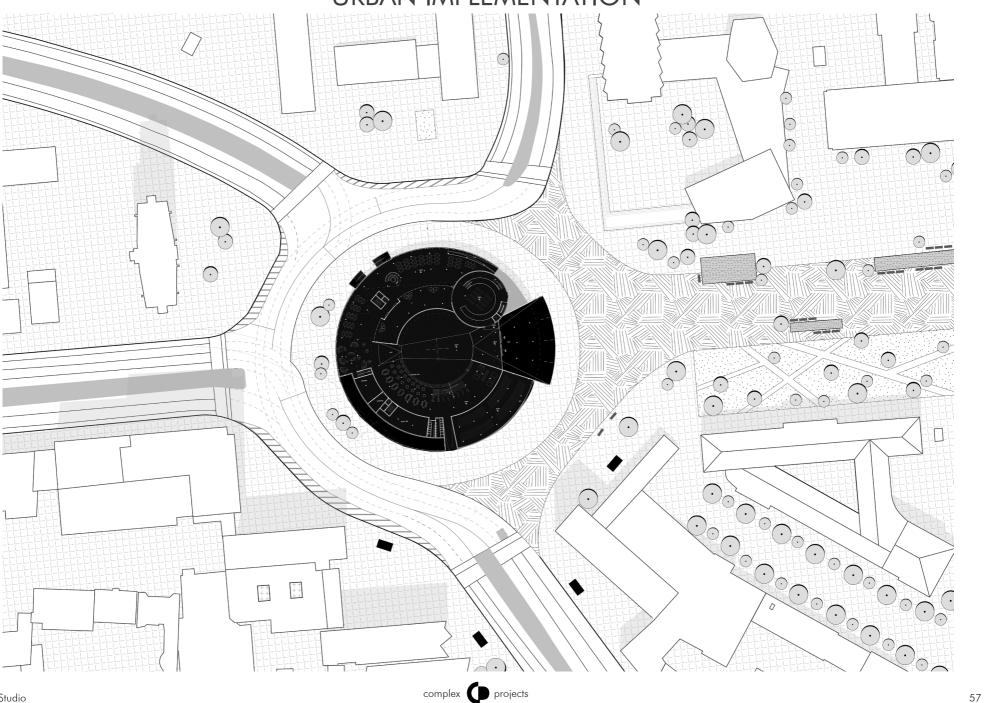
TRANSITION FROM WOODS TO URBAN



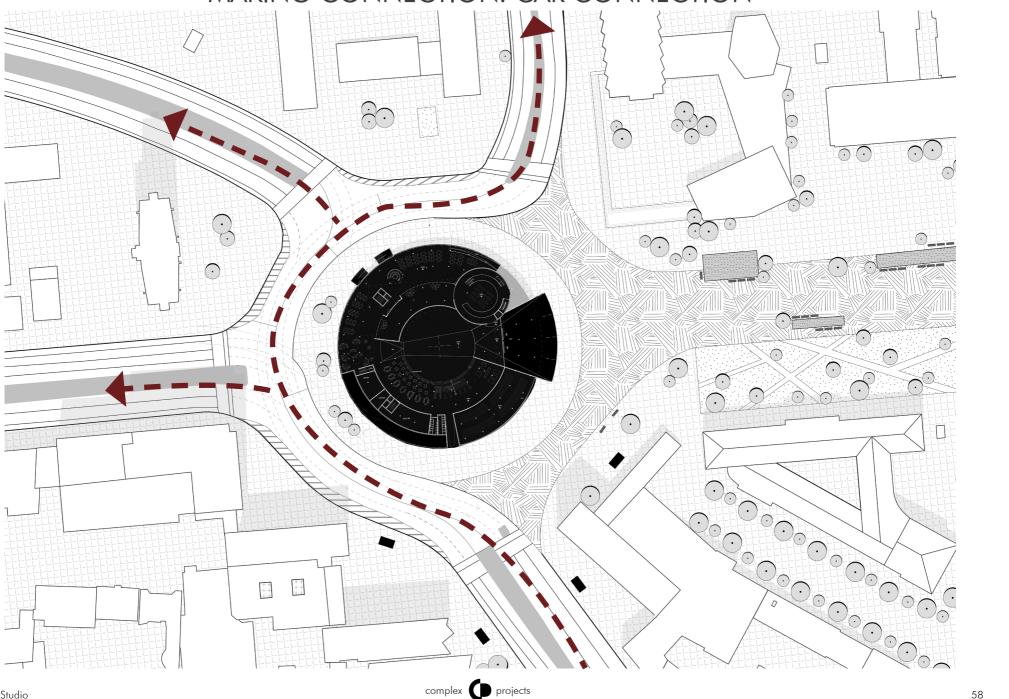
MAKING CONNECTION: SITE & CAMPUS



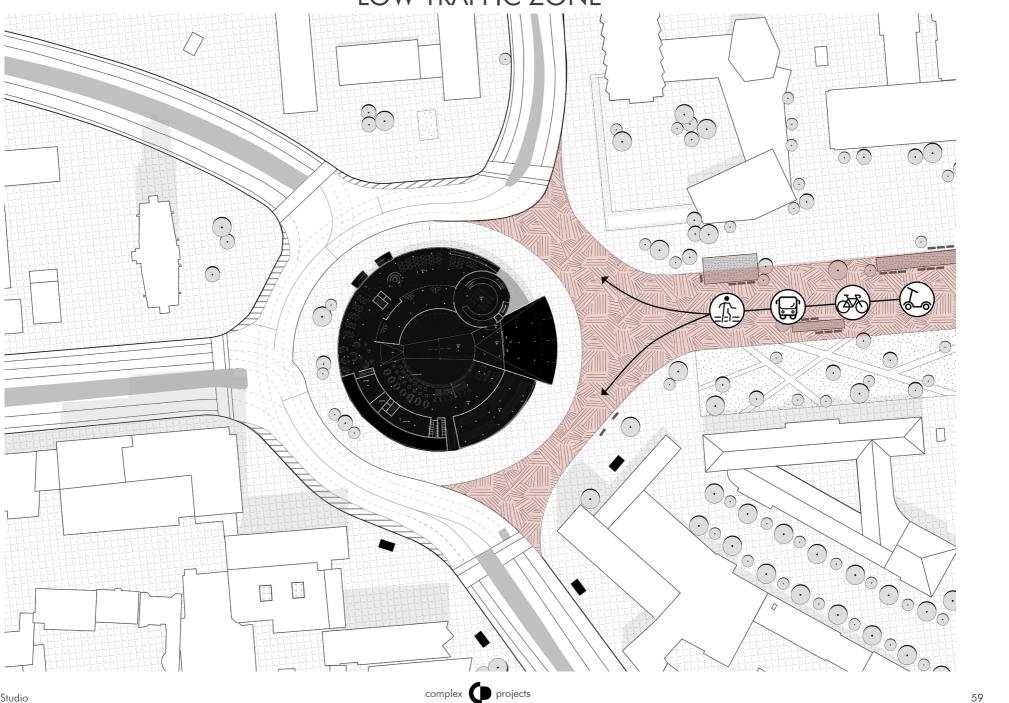
URBAN IMPLEMENTATION

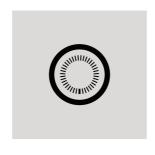


MAKING CONNECTION: CAR CONNECTION



LOW TRAFFIC ZONE

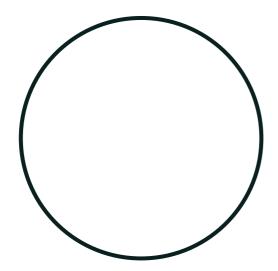


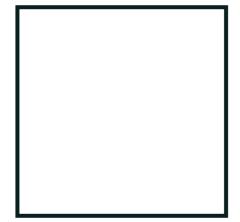


FORM STUDY

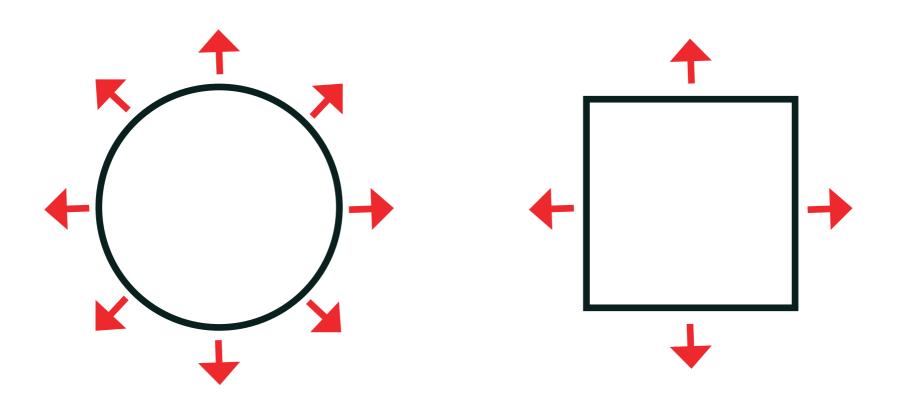


DIFFERENCE BETWEEN SQUARE AND CIRCLE

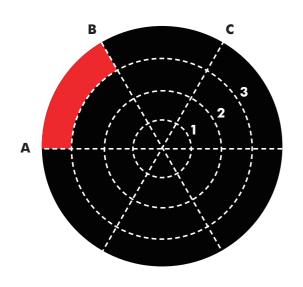


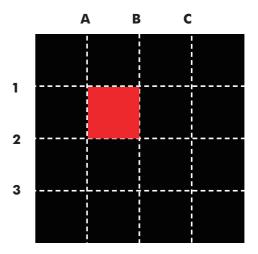


BOUNDARY & DIRECTION



AREA & SHAPE

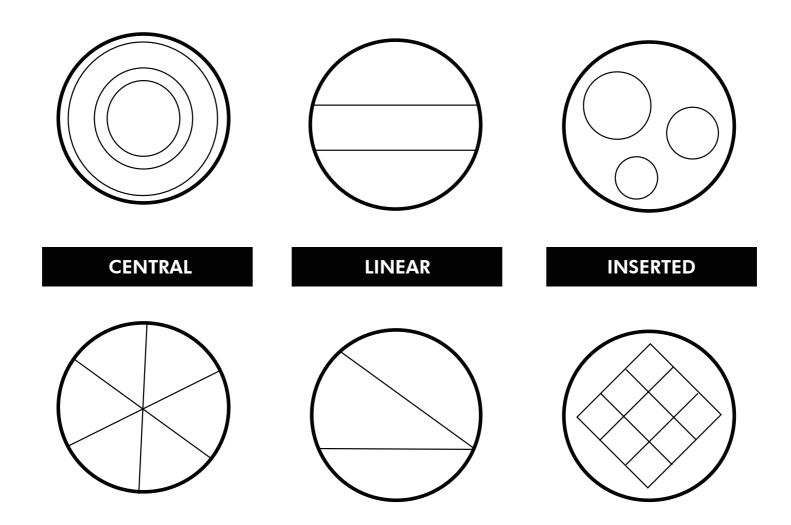




CONCEPT HOW TO SLICE A CAKE?



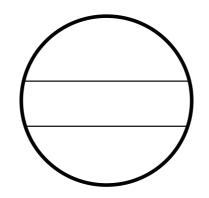
HOW TO CUT A CIRCLE?



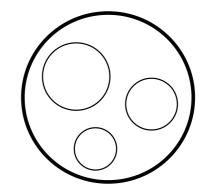
CONCEPT POSSIBILITIES



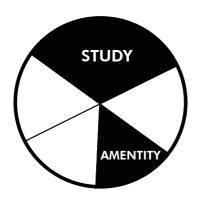




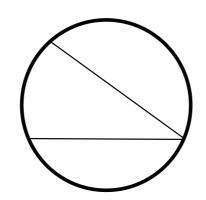
LINEAR

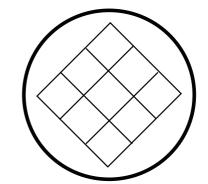


INSERTED



DIVISION





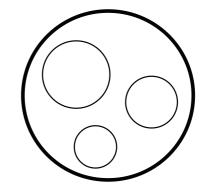
CONCEPT POSSIBILITIES



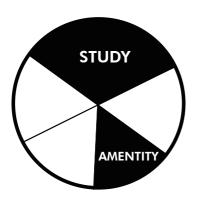




AXIS & ENTRANCE



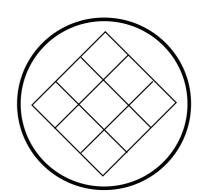
INSERTED



DIVISION



SPATIAL CONTRAST



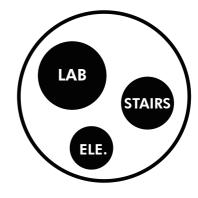
CONCEPT POSSIBILITIES



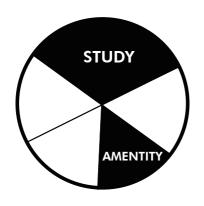




AXIS & ENTRANCE



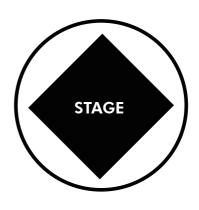
PROGRAM BUBBLES



DIVISION



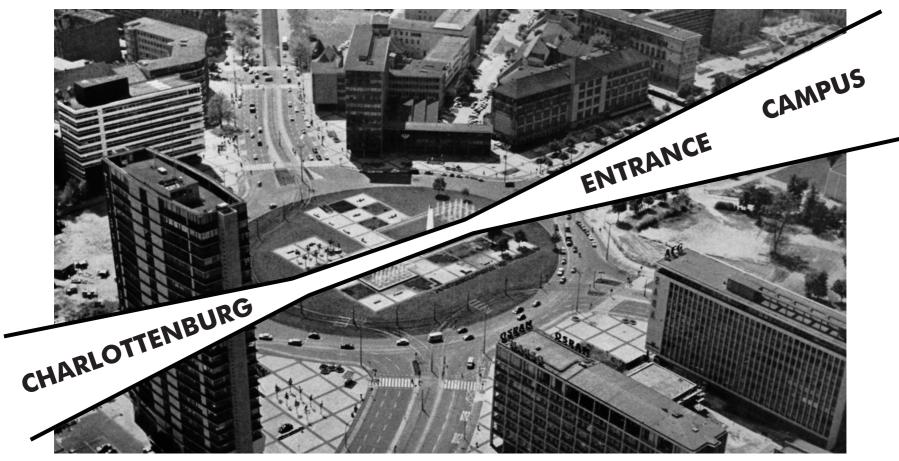
SPATIAL CONTRAST



SQUARE IN CIRCLE

CONCEPT **ENTRANCE**



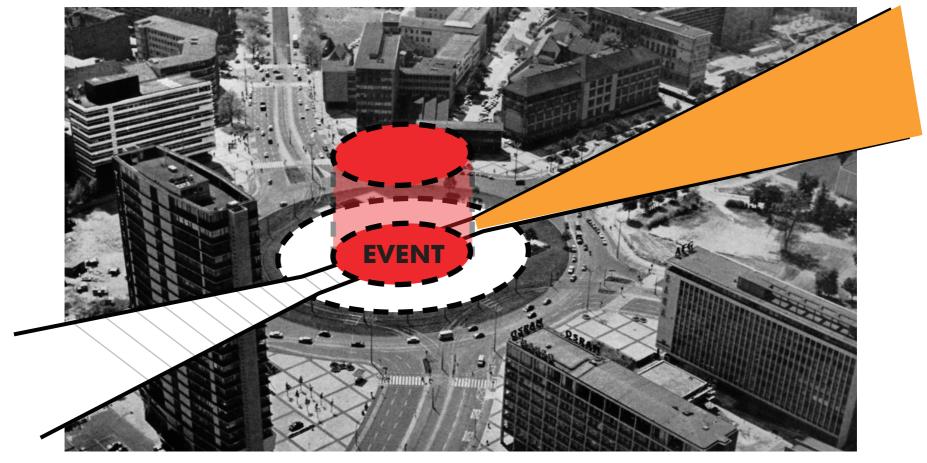


GROUND FLOOR

ATRIUM EVENT

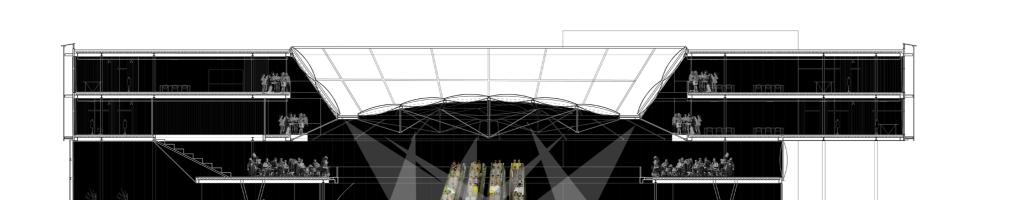






GROUND FLOOR

CONCEPT VISITUAL CONNECTION



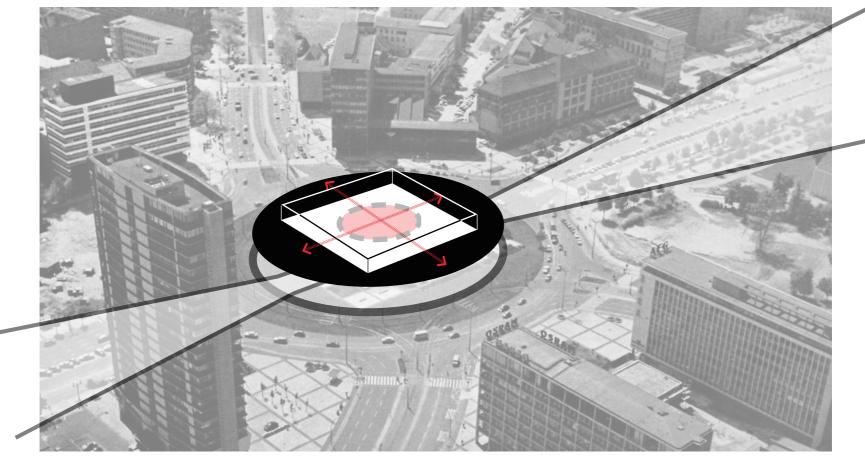
EXHIBITION + PATIO











1ST FLOOR

LAB + RESEARCH

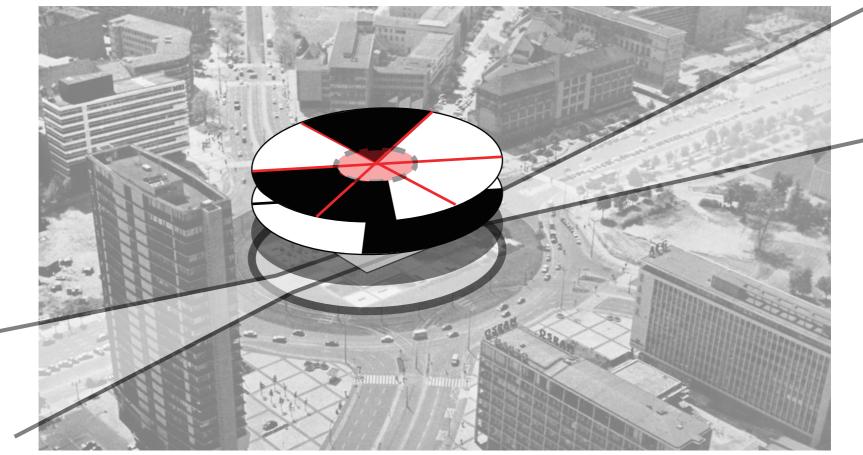












UPPER FLOORS

VERTICAL HINGE



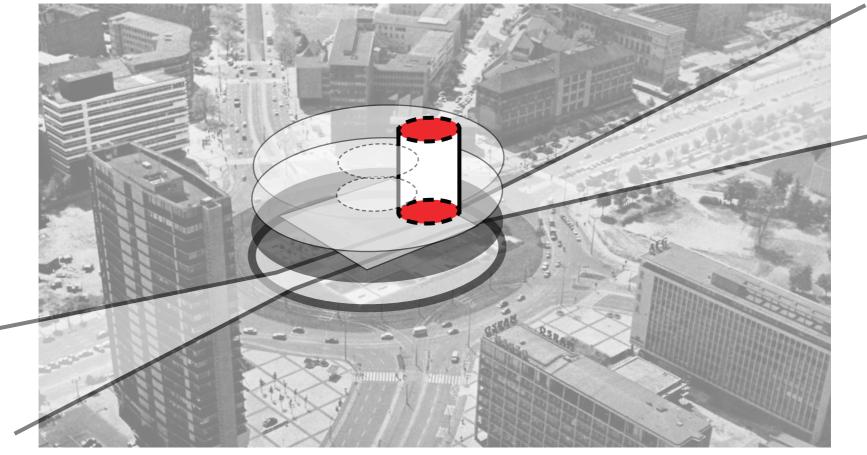


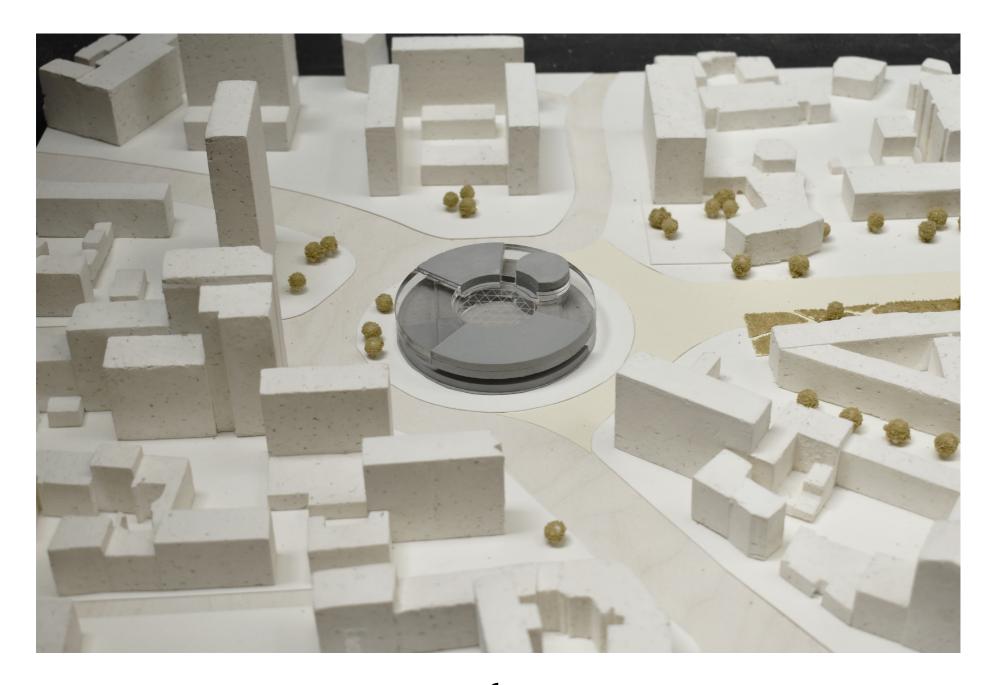


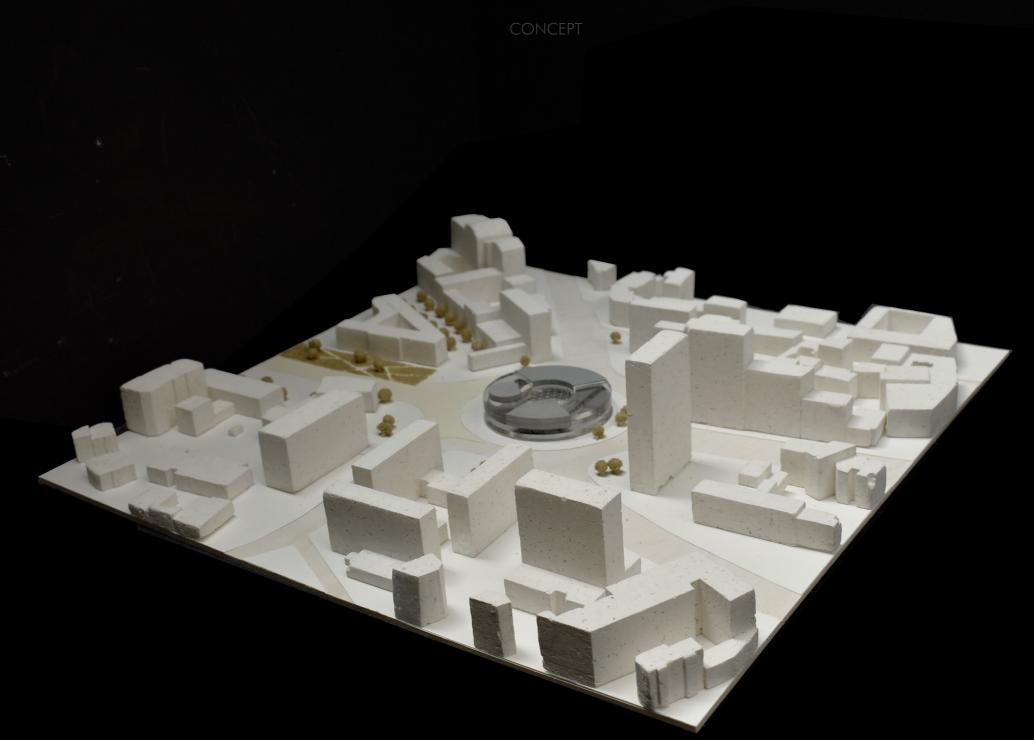




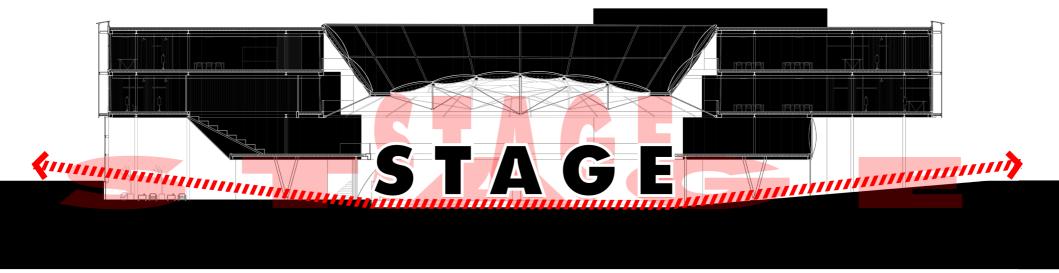




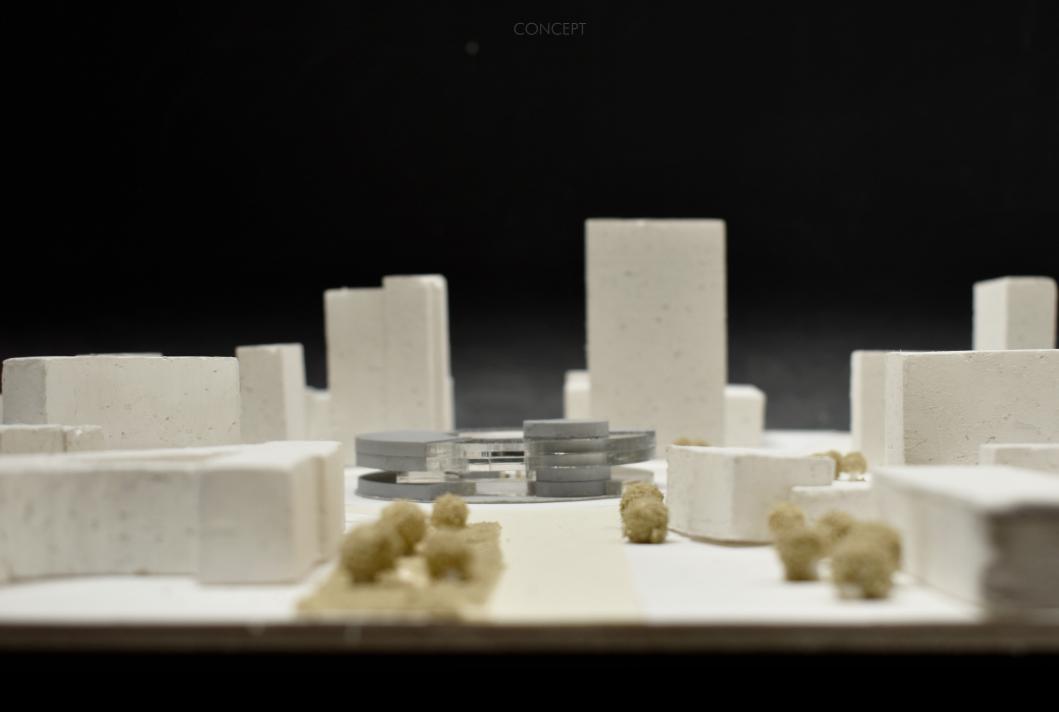




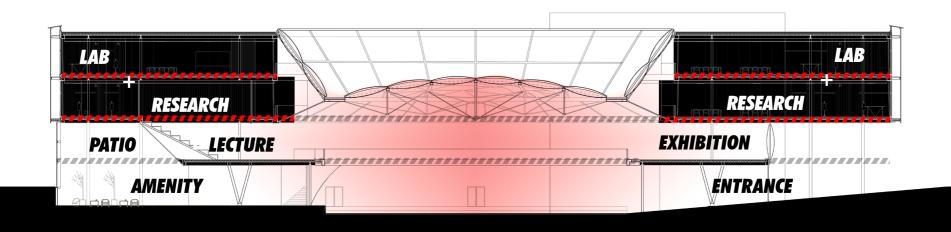
EVENT STAGE AS HEART OF THE BUILDING

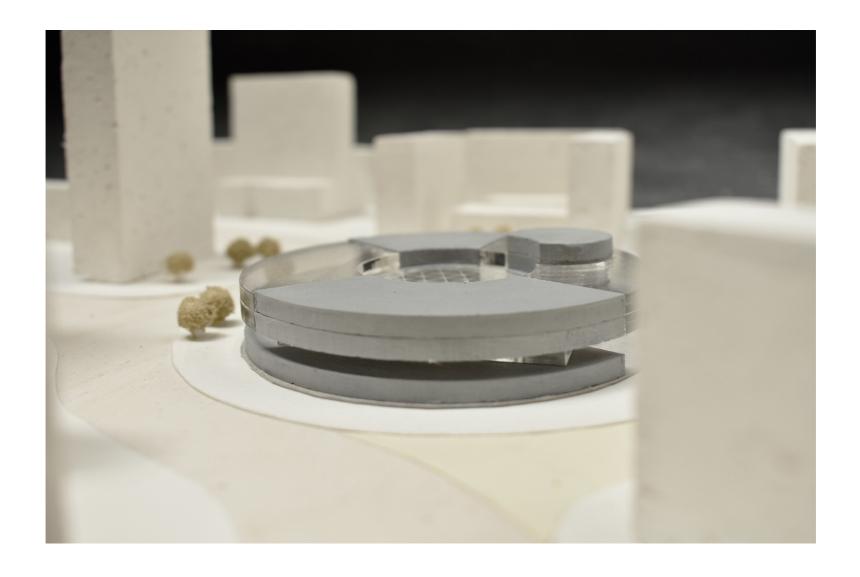


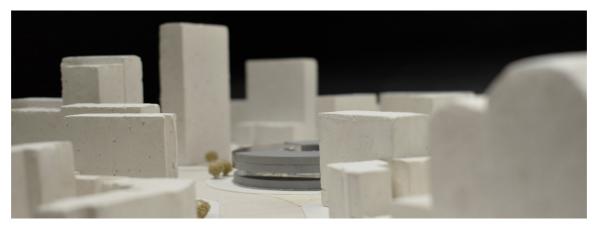




PUBLIC & SEMI-PUBLIC

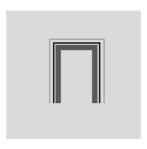










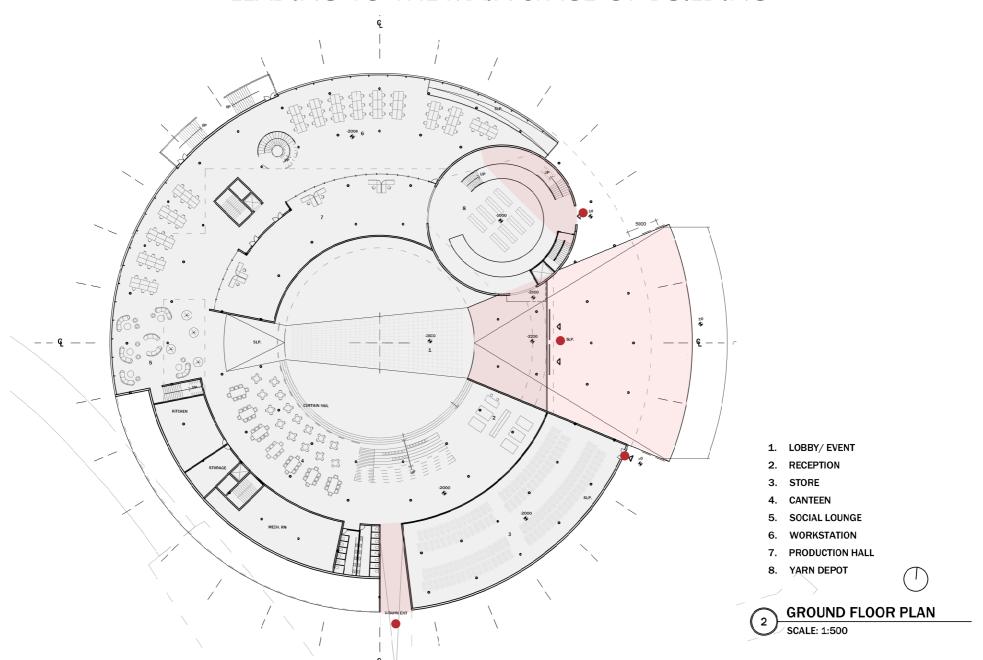


IMPLEMENTATION

URBAN SITUATION

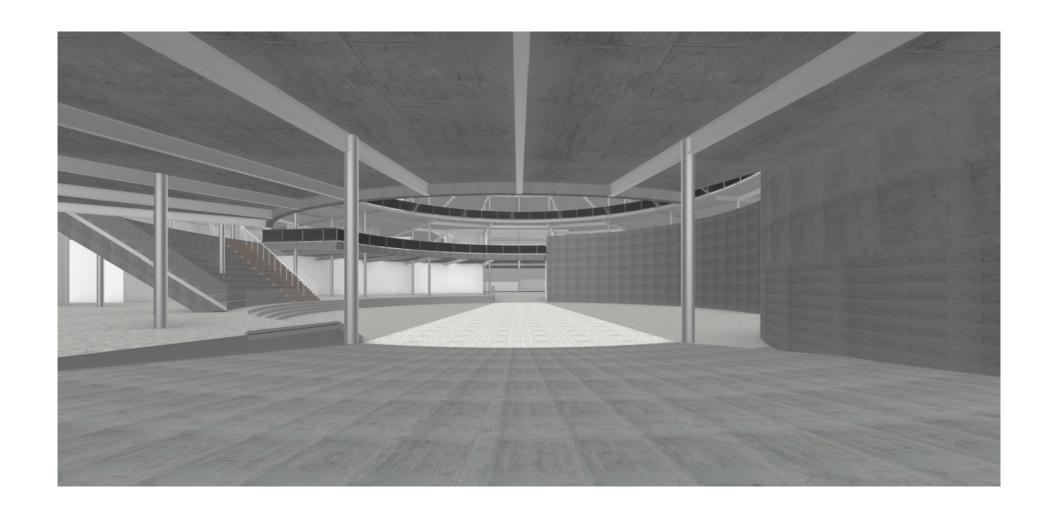


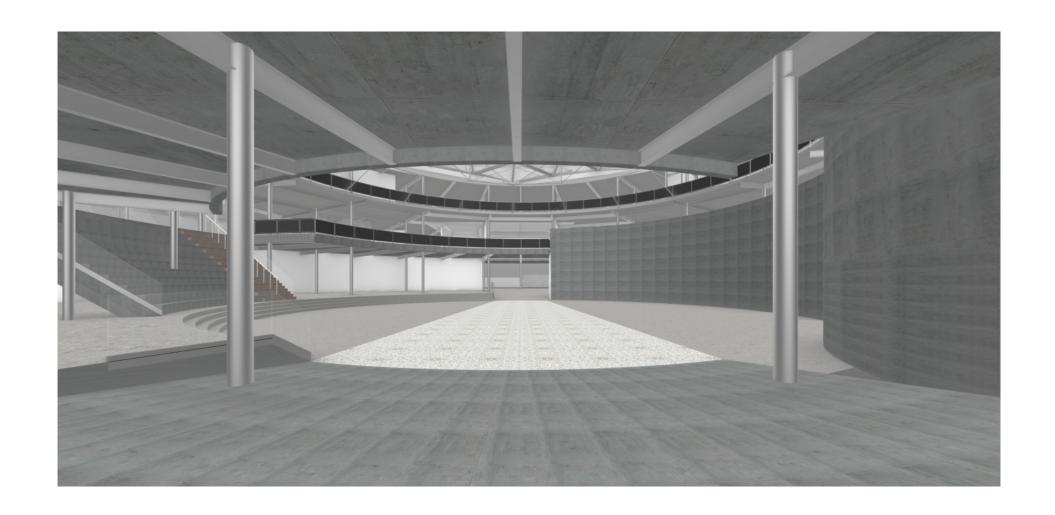
LEADING TO THE MAIN SPACE OF BUILDING



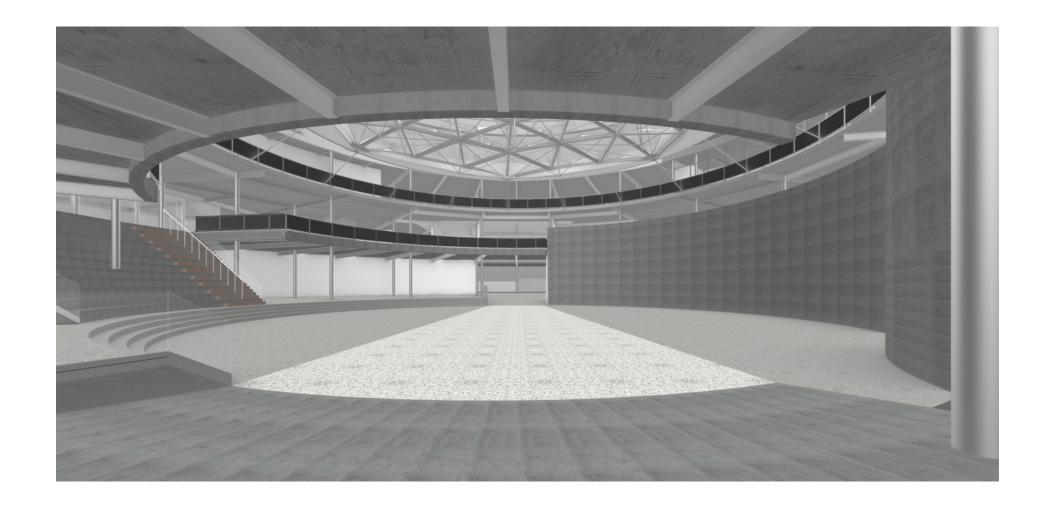


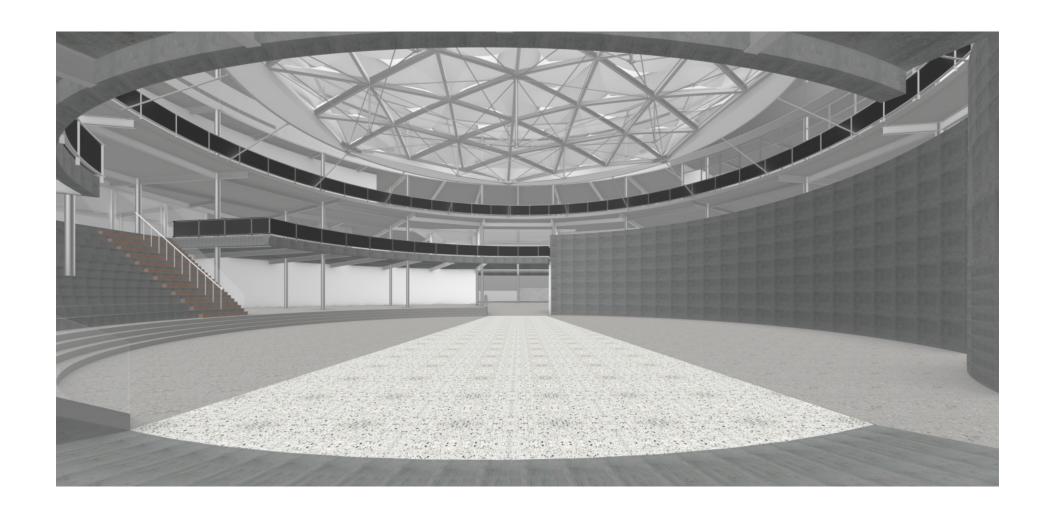


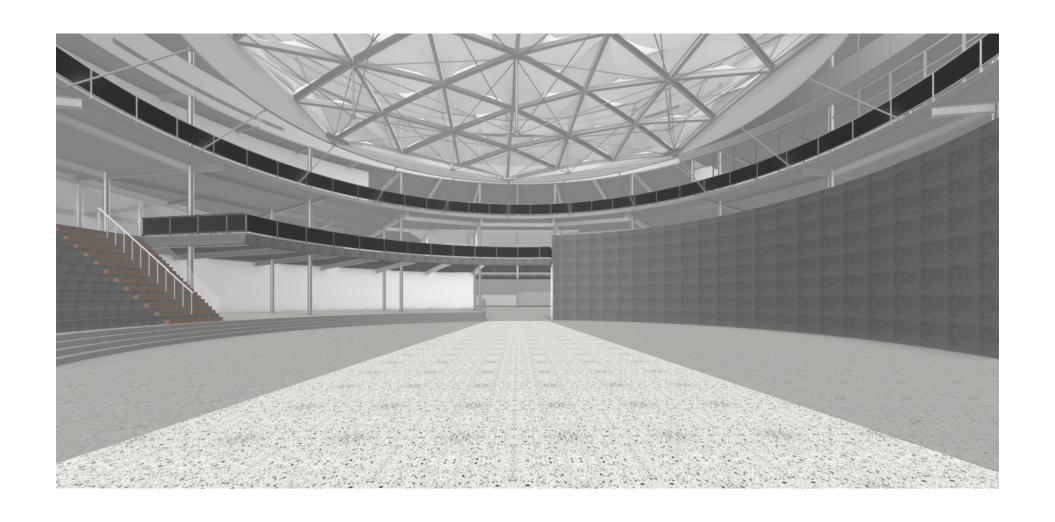




CONCEPT **ENTRANCE**

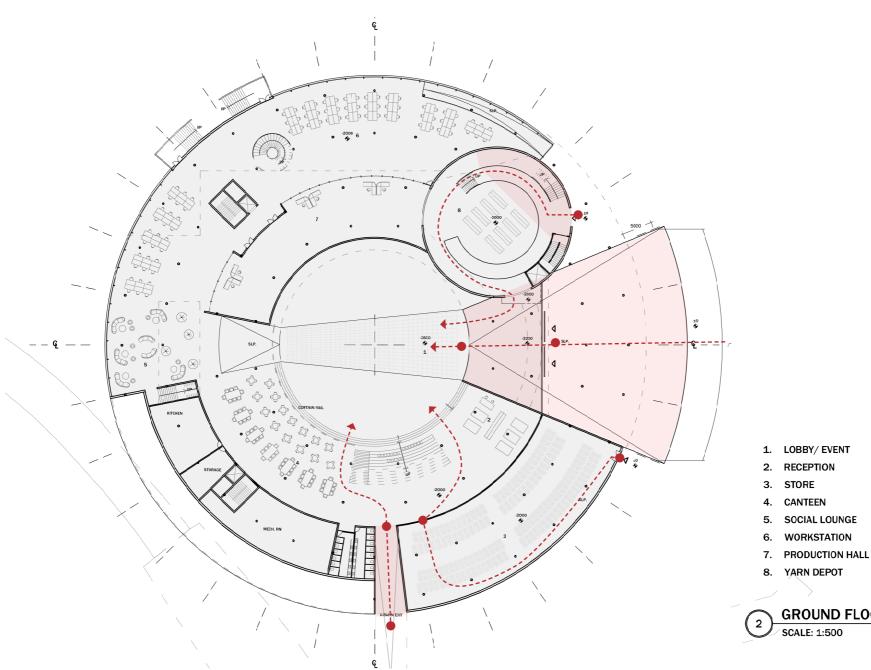




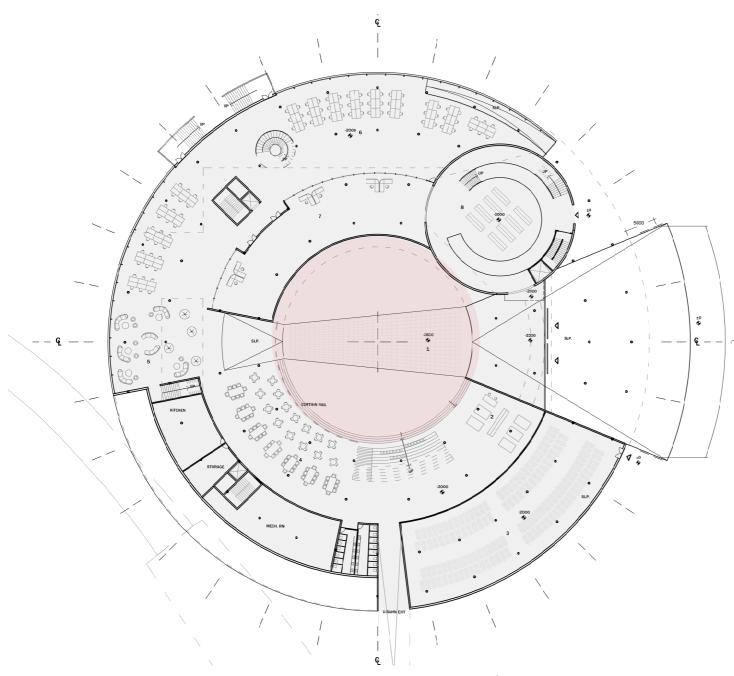


ATRIUM



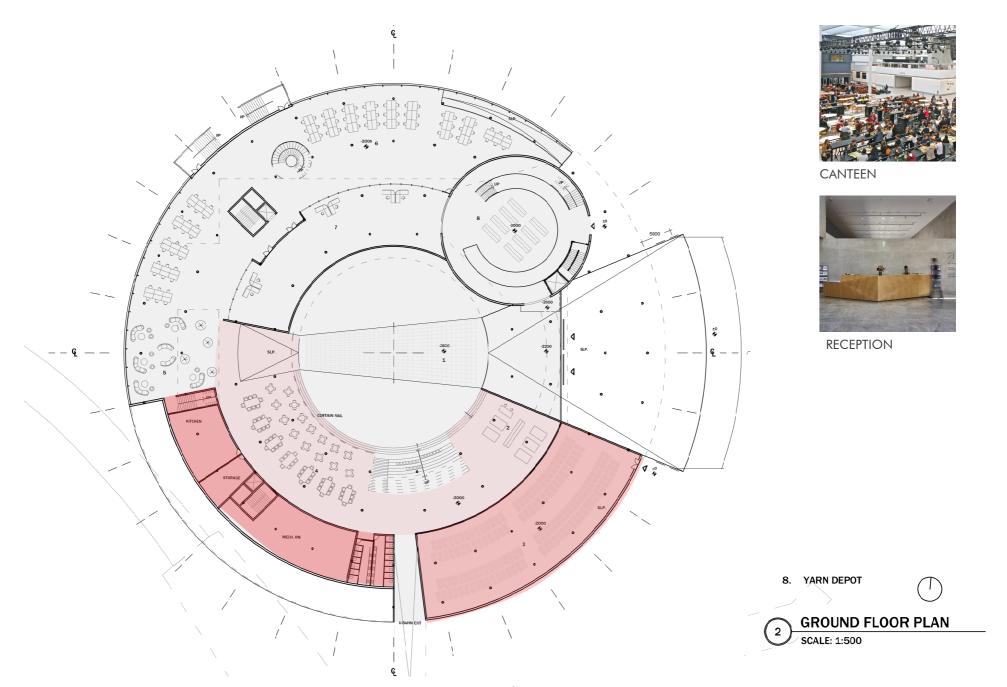


GROUND FLOOR PLAN



ATRIUM



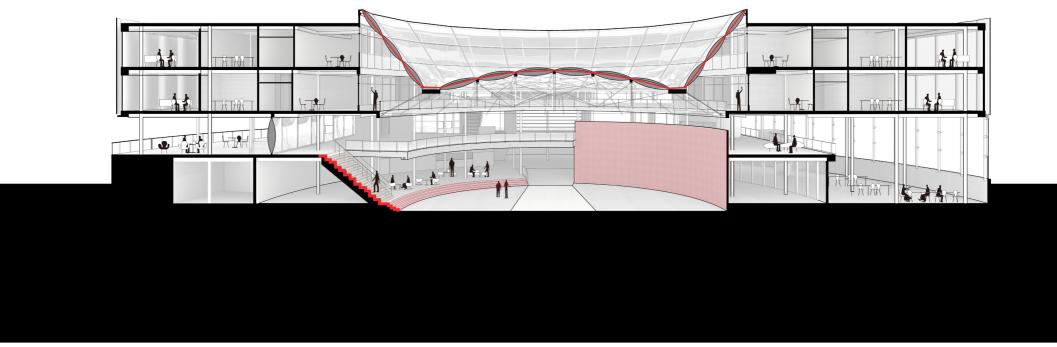


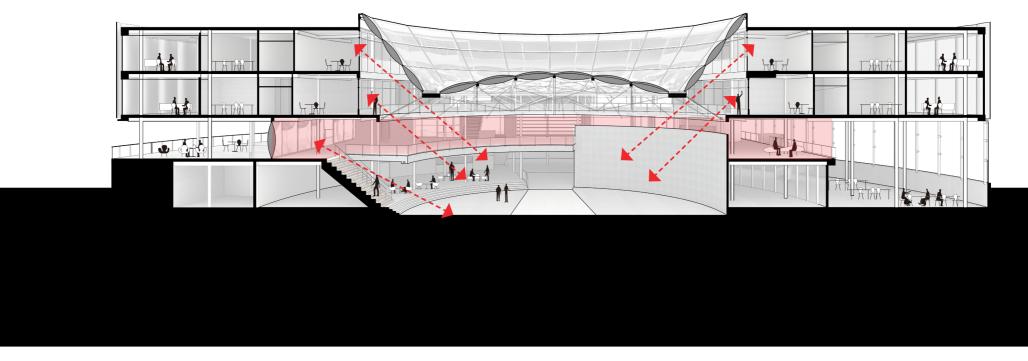
Berlin Studio

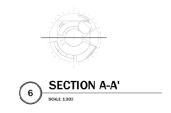
FLEXIBLE SPACE











CONCEPT **ATRIUM**

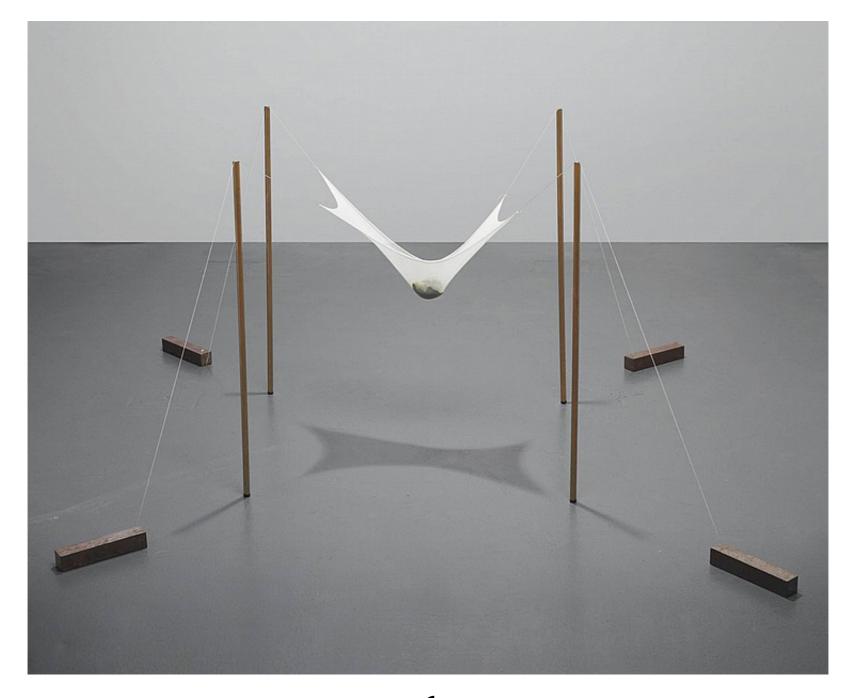


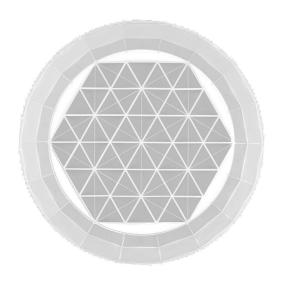
view from frist floor, roof to provide daylight from all levels

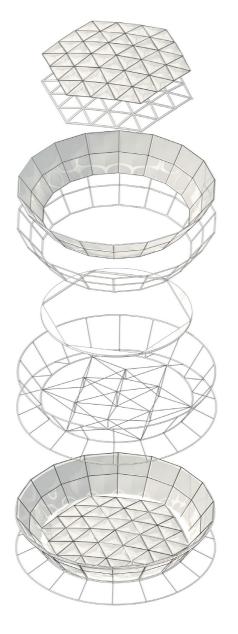
101

ROOF STURCTURE: ETFE

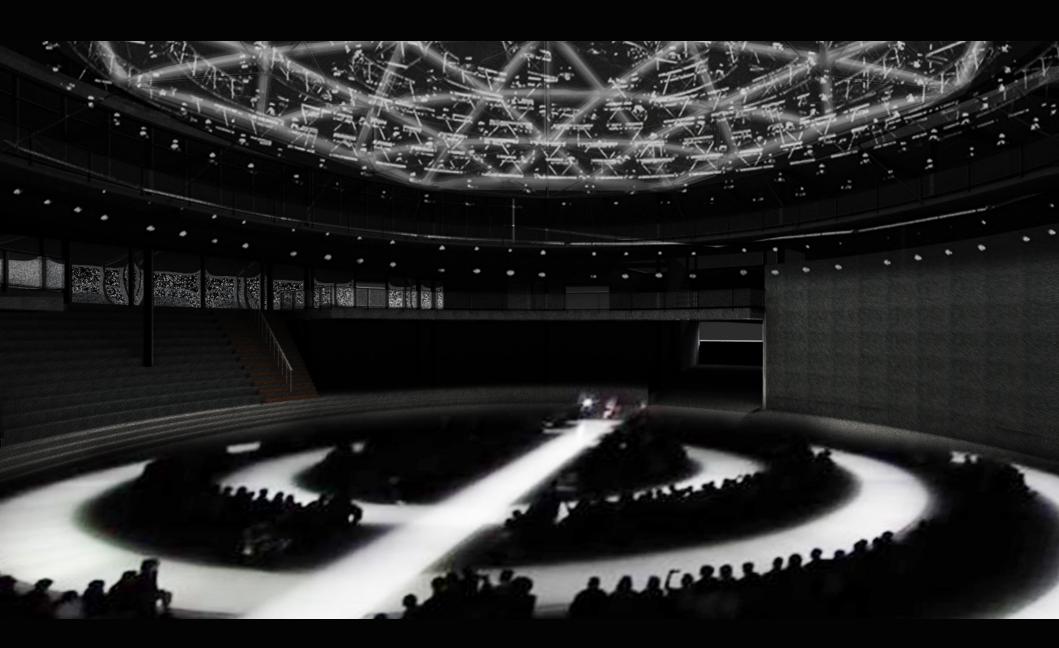




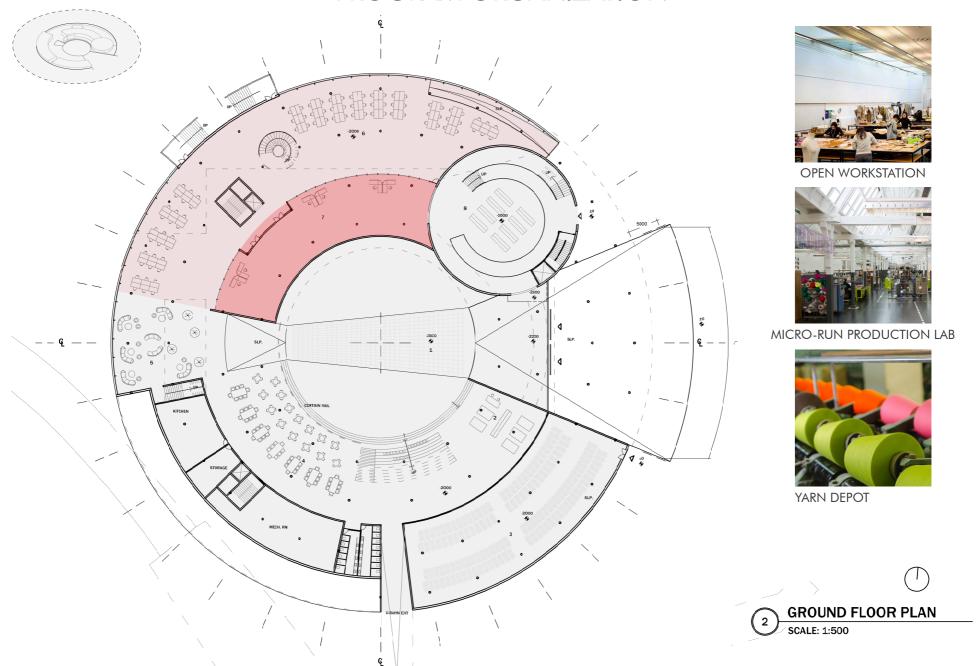


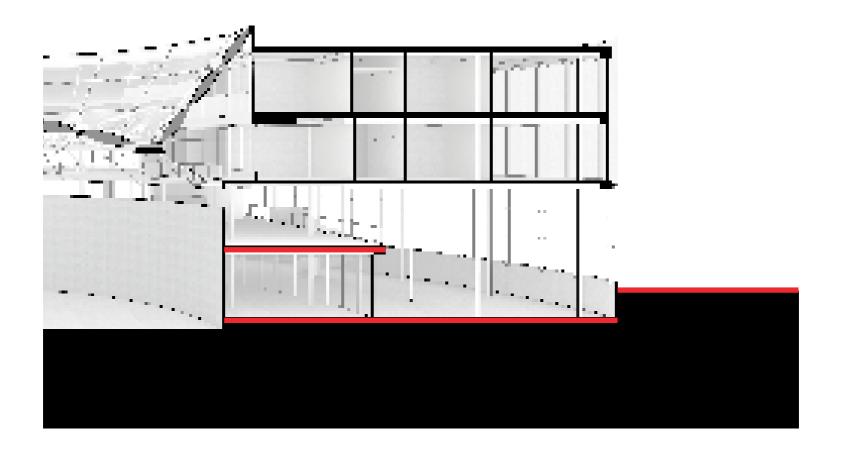




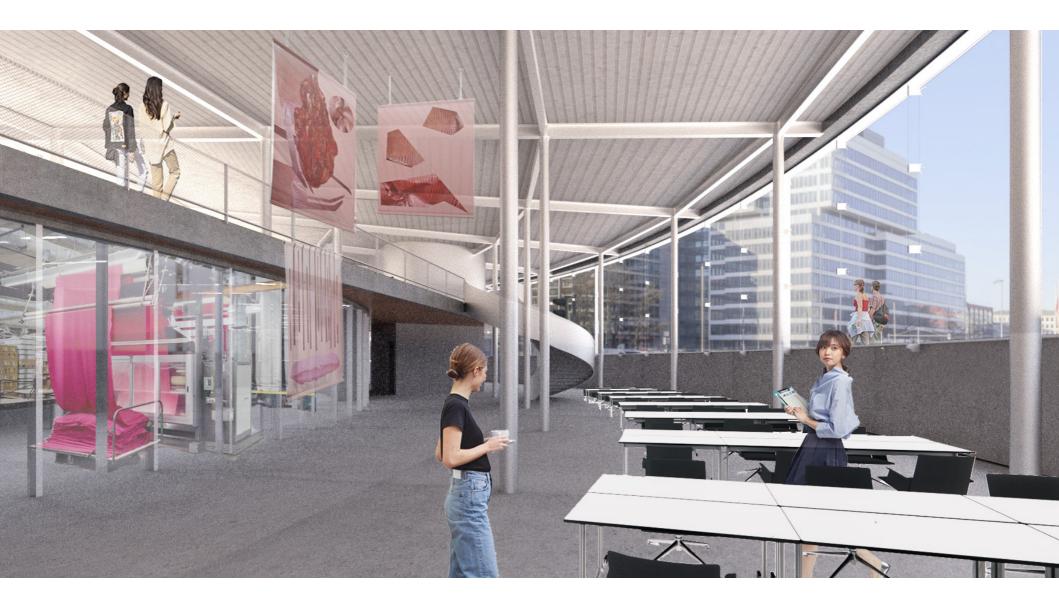


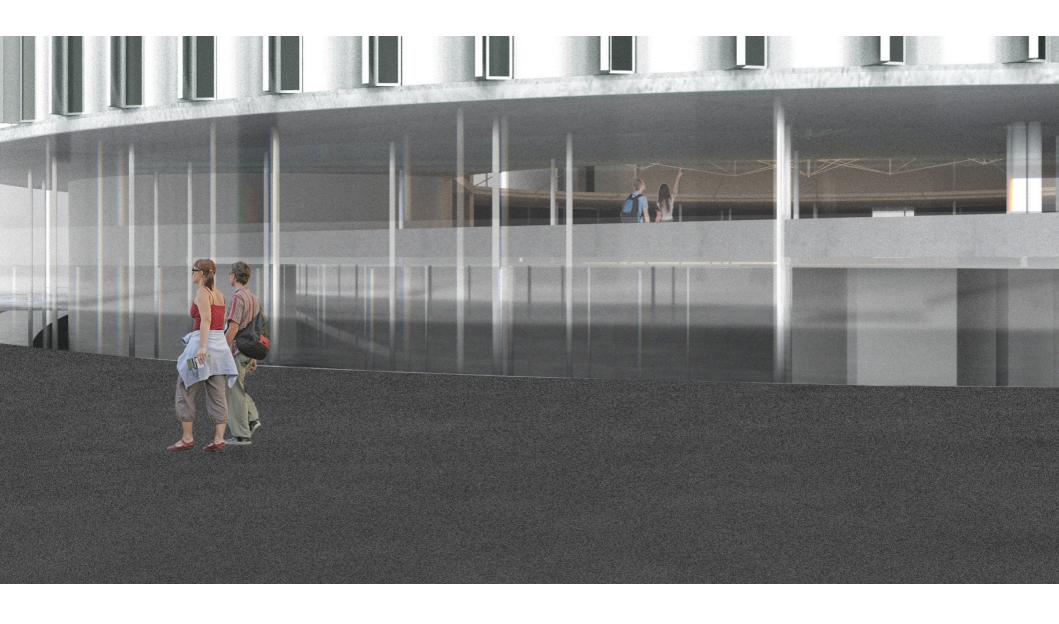
PROGRAM ORGANIZATION



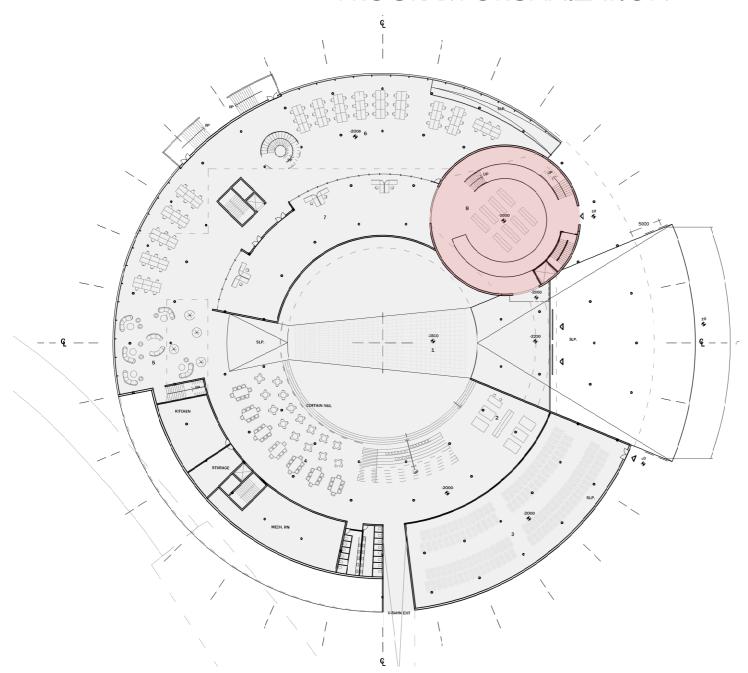


VISIAL CONNECTION





PROGRAM ORGANIZATION



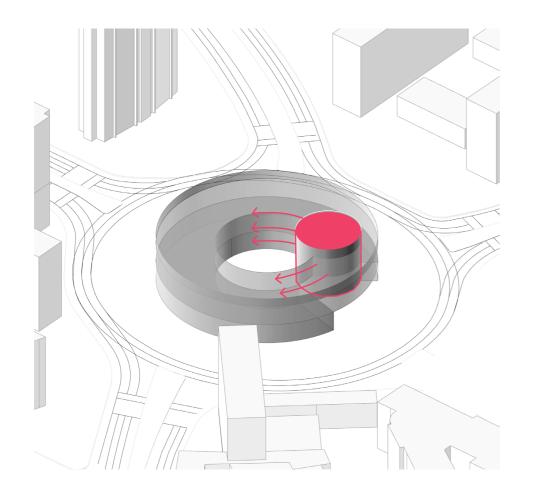


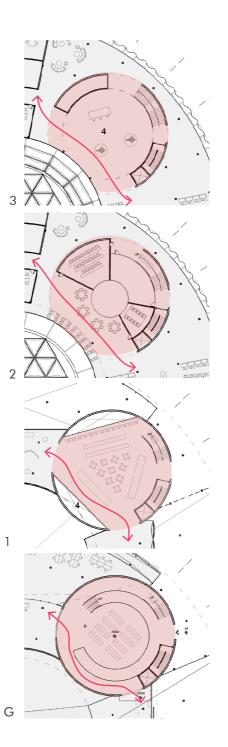
OPEN WORKSTATION

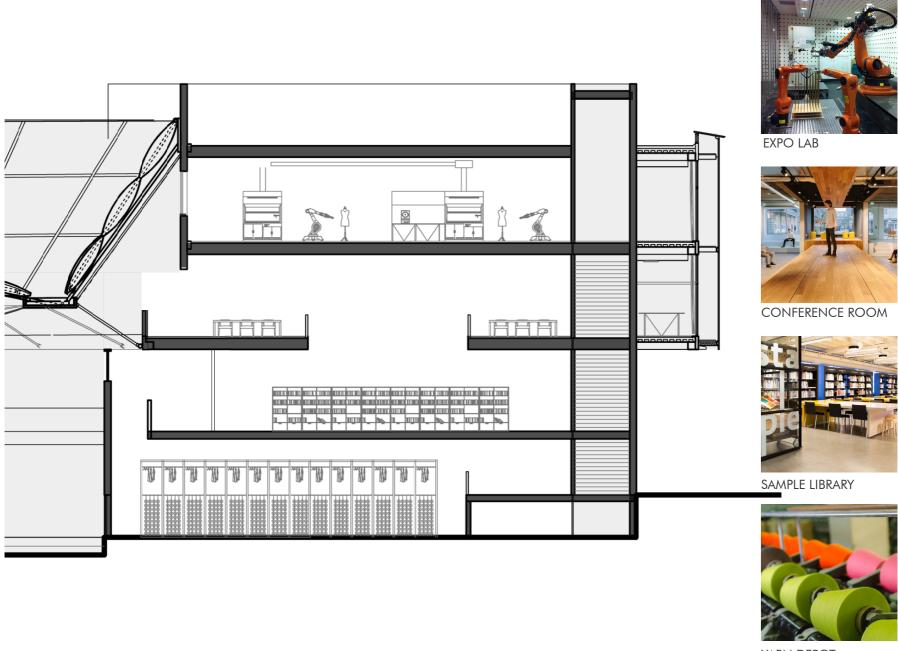


MICRO-RUN PRODUCTION LAB

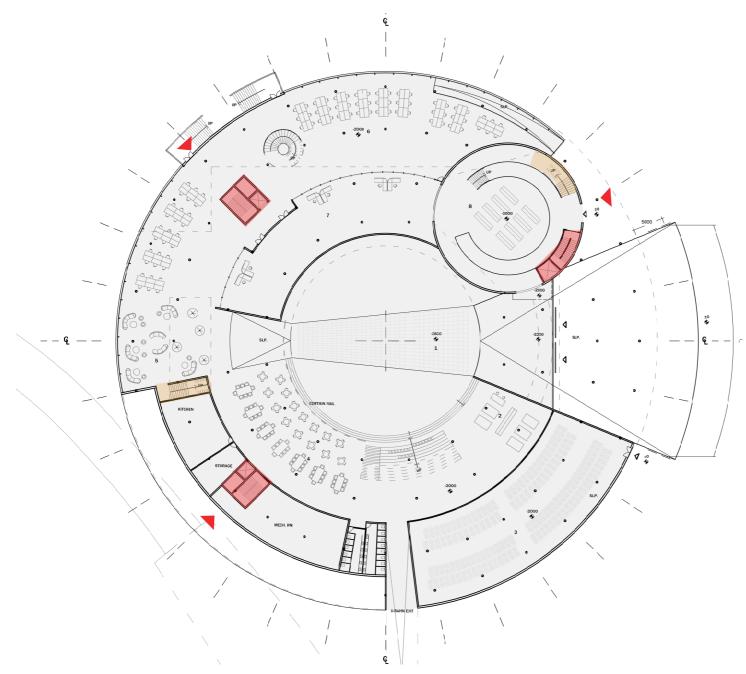




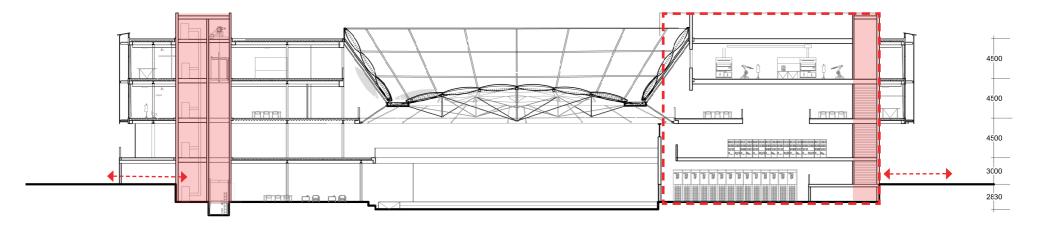




VERTICAL CIRCULATION

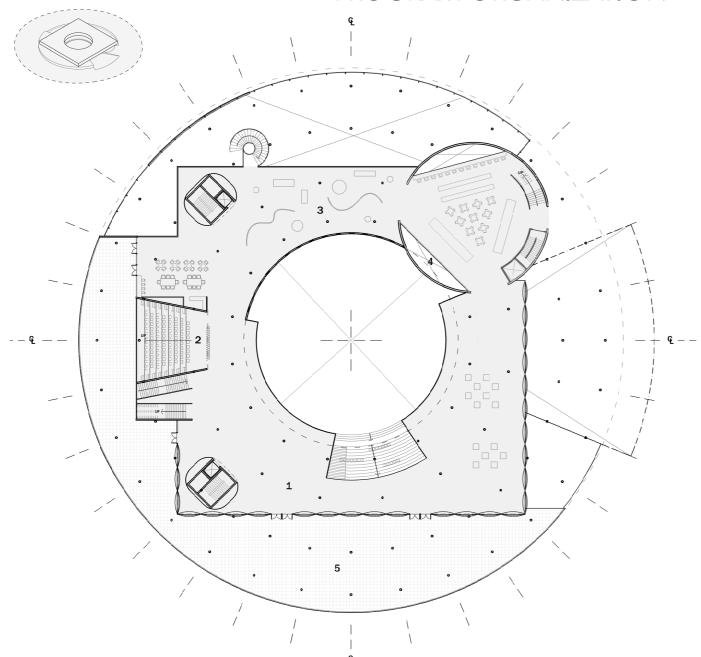


VERTICAL CIRCULATION





PROGRAM ORGANIZATION





MEDIA ROOM



RESTAURANT



SAMPLE LIBRARY



FIRST FLOOR PLAN

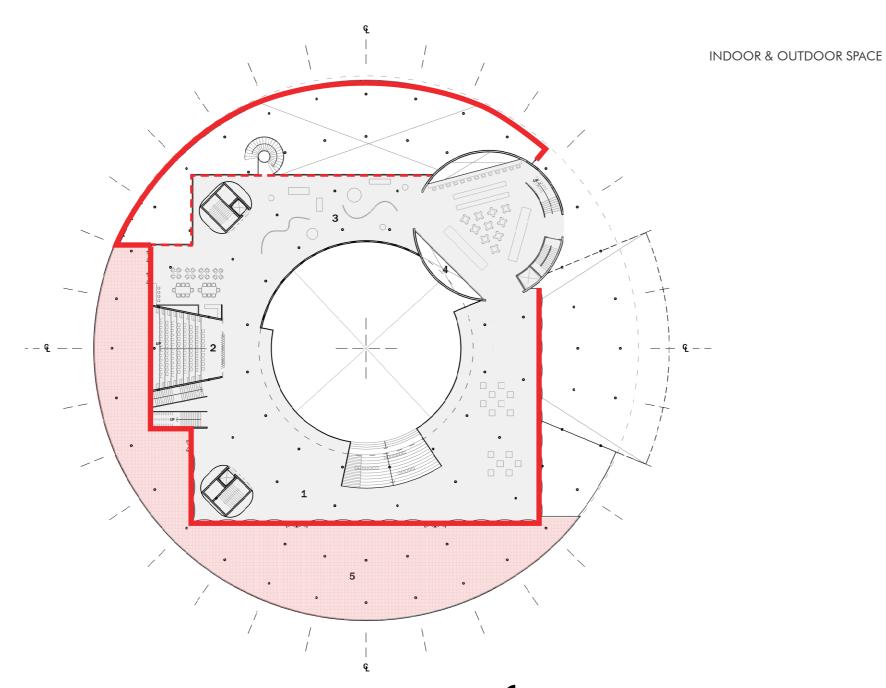
SCALE: 1:500

GALLERY SPACE



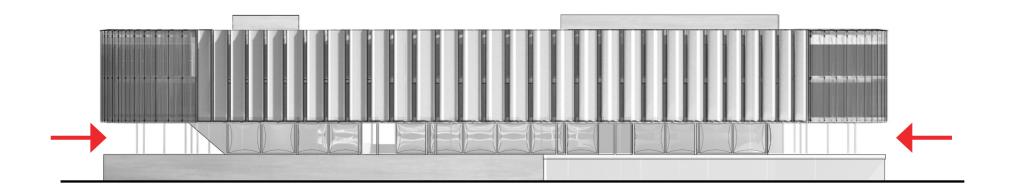
GALLERY SPACE







OFFSET PATIO



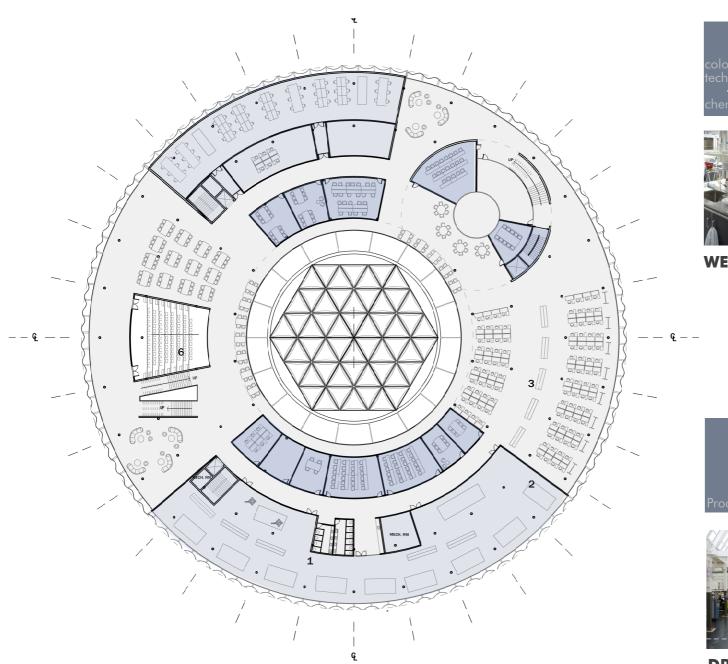


PATIO



CONCEPT **RESEARCH AREA**

complex projects







WET LAB

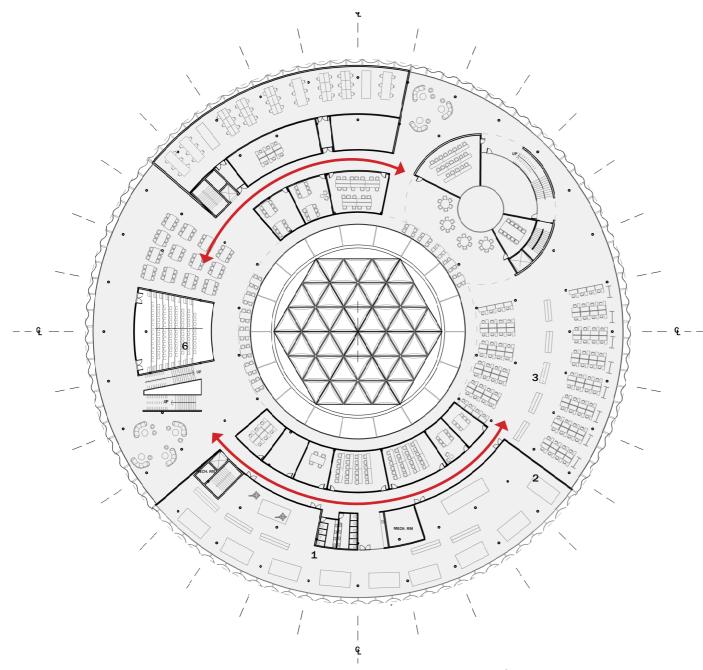




PRIVATE ACCESS to individual research group





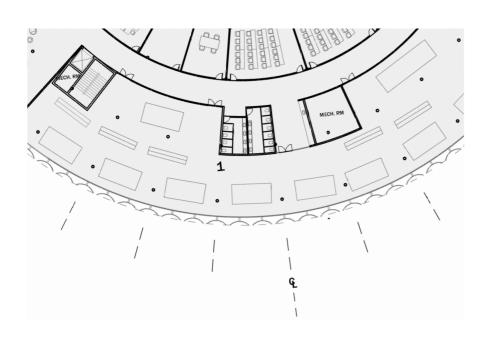


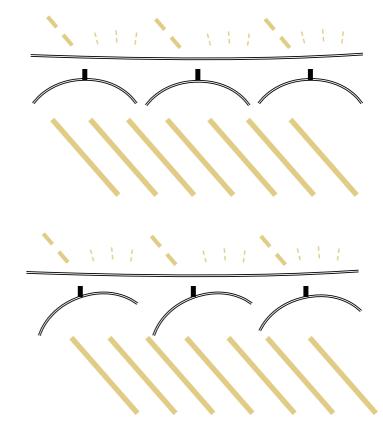
FACADE COMPOSITION: LAB





DRY LAB

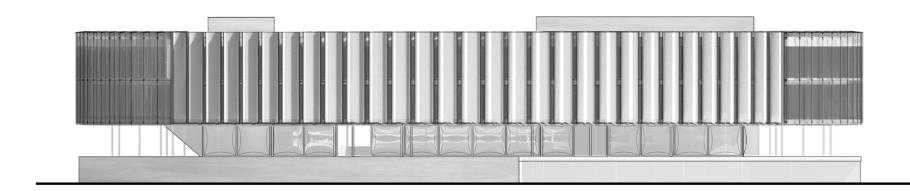




CONCEPT MATERIALS





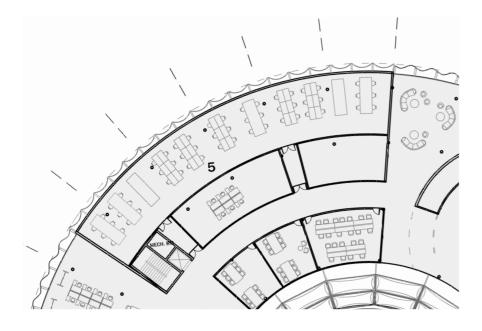


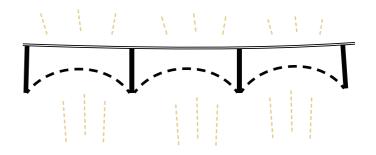


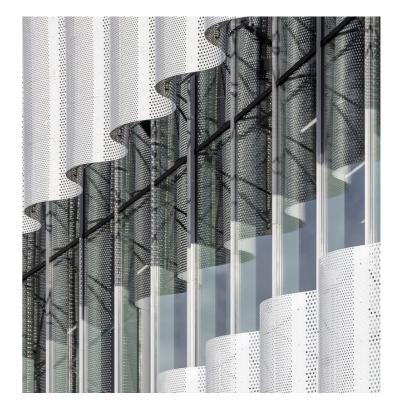




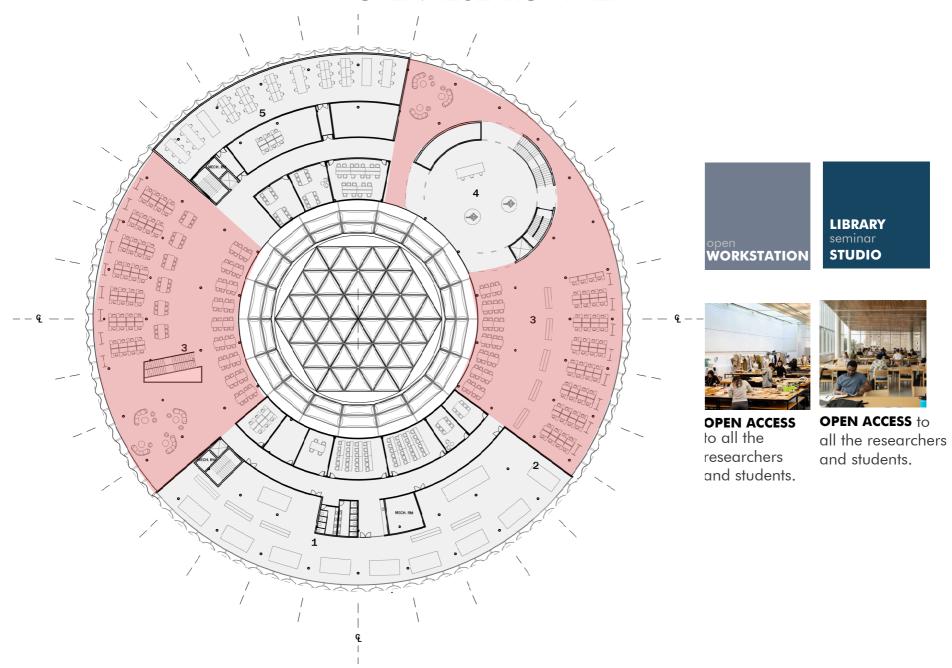
WET LAB



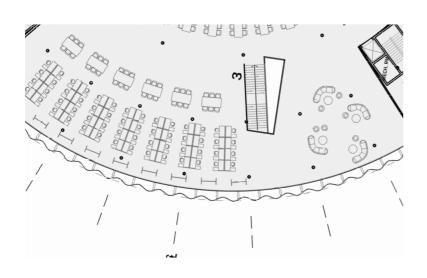


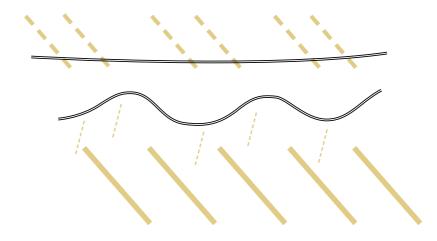


OPEN RESEARCH AREA



FACADE COMPOSITION: OPEN RESEARCH AREA

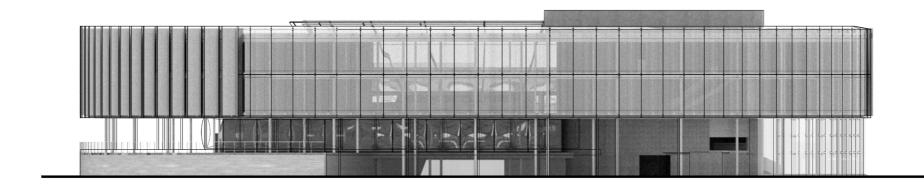




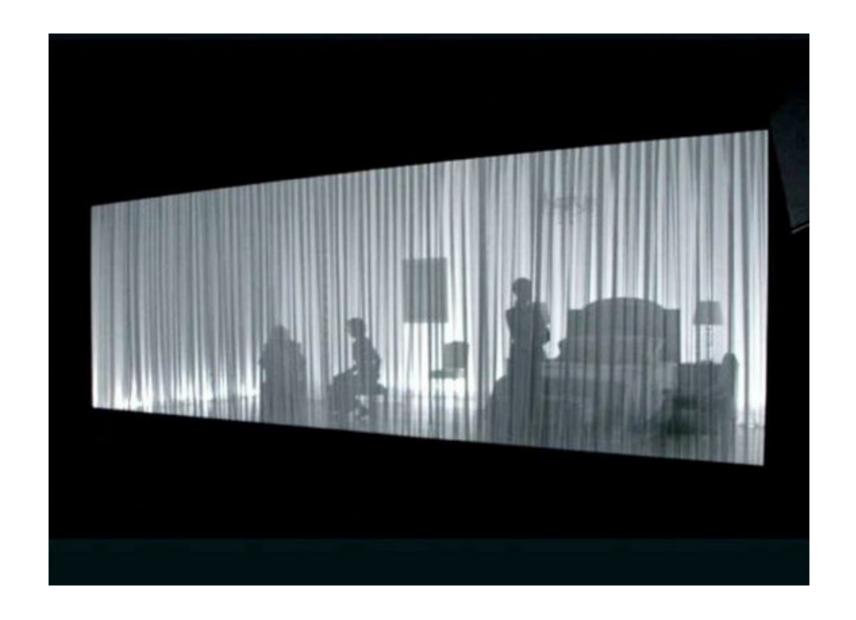
MEATERIALS







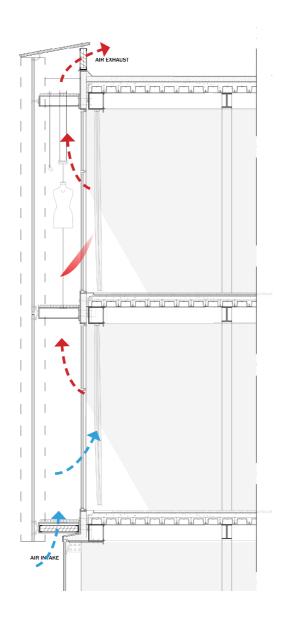
CONCEPT LANTERN EFFECT

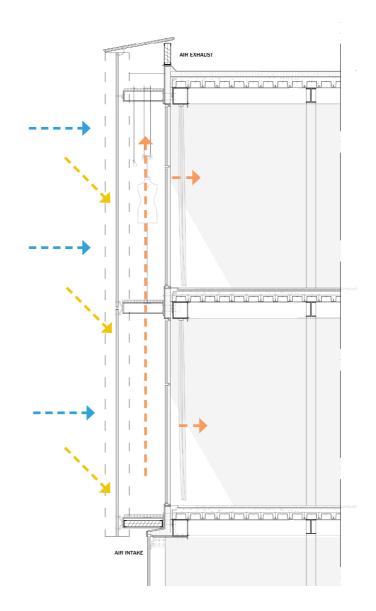




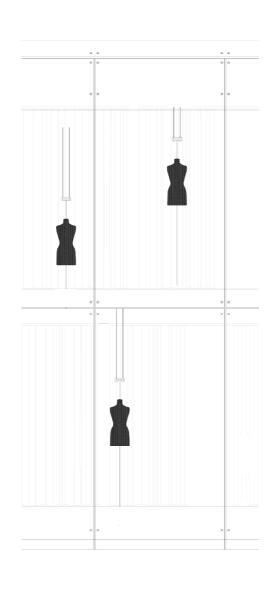
DOUBLE FACADE

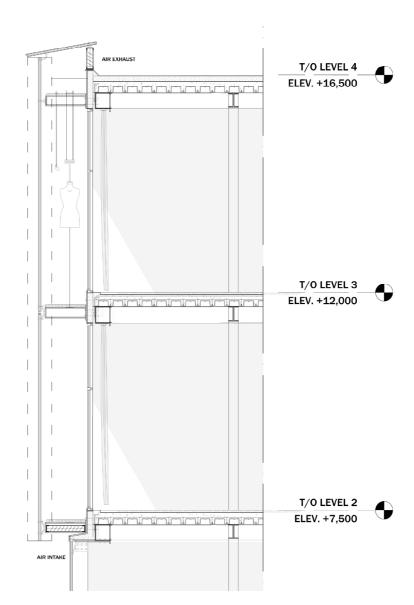
SUMMER WINTER





SHOW WINDOW











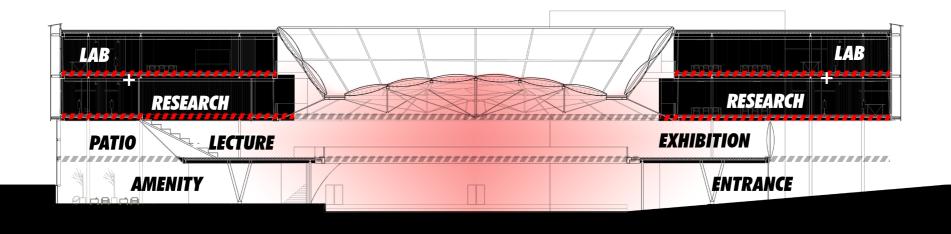


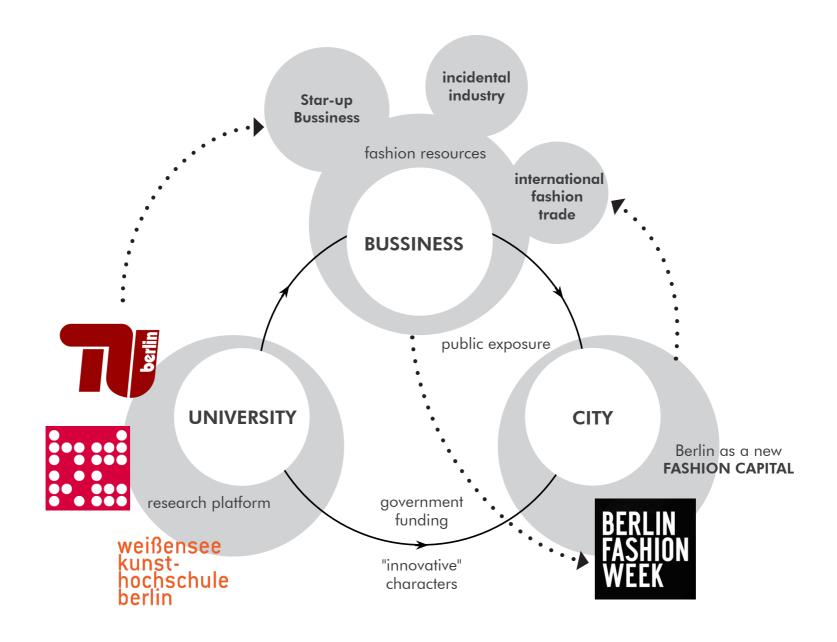


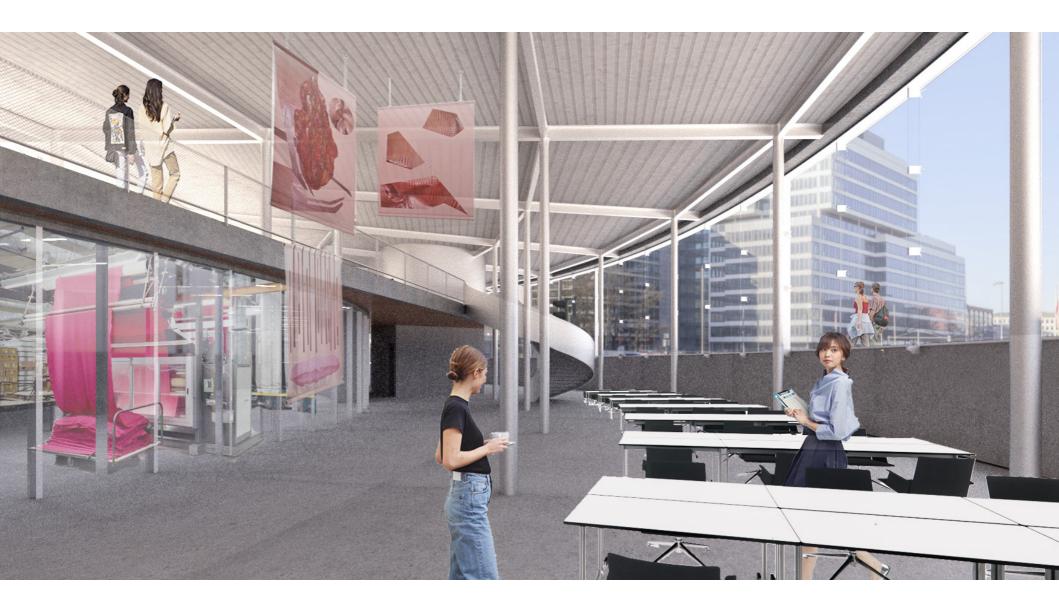














CONCLUSION



How can a research lab strengthen the fashion development of Berlin?

- 1) What kind of spatial quality and requirement does the building need to accommodate lab researchers and textile-related innovation?
- 2) How can the lab intensify the communication between researchers and businesses?
- 3) How does the building satisfy the city's ambition of being one of the futural fashion capitals?