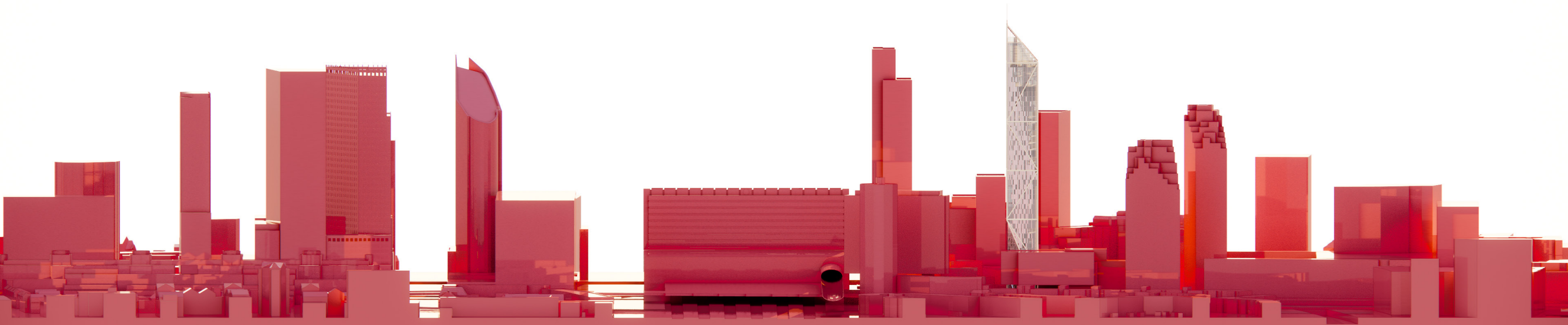


XXI CENTURY WUNDERKAMMER

P5 PUBLIC BUILDING

AR3AP100: THE VERTICAL CAMPUS



DATA

WUNDERKAMMER

HORIZONTAL BRIEF

URBAN CONTEXT

DESIGN

SUSTAINABILITY

DATA

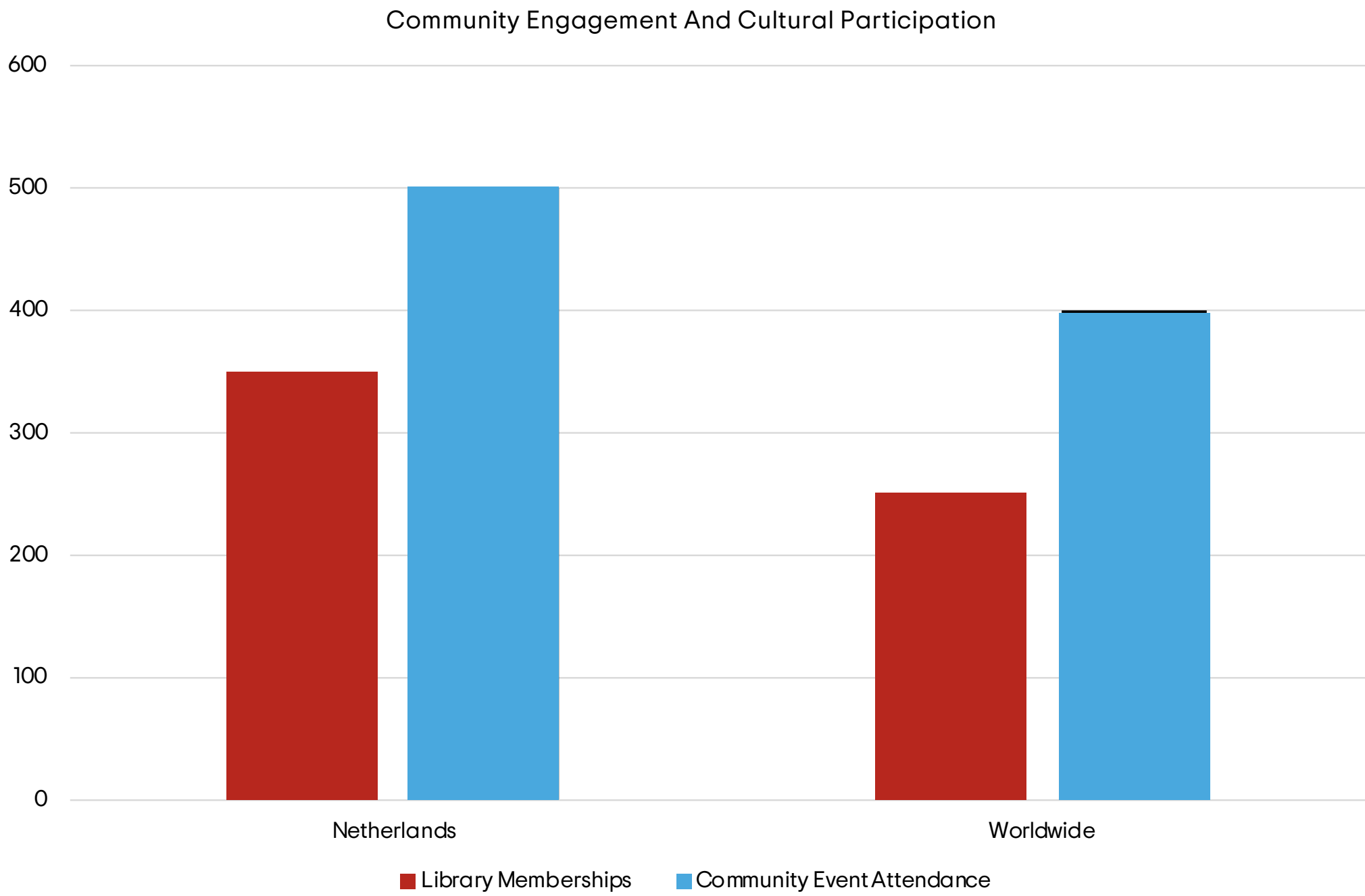
WUNDERKAMMER

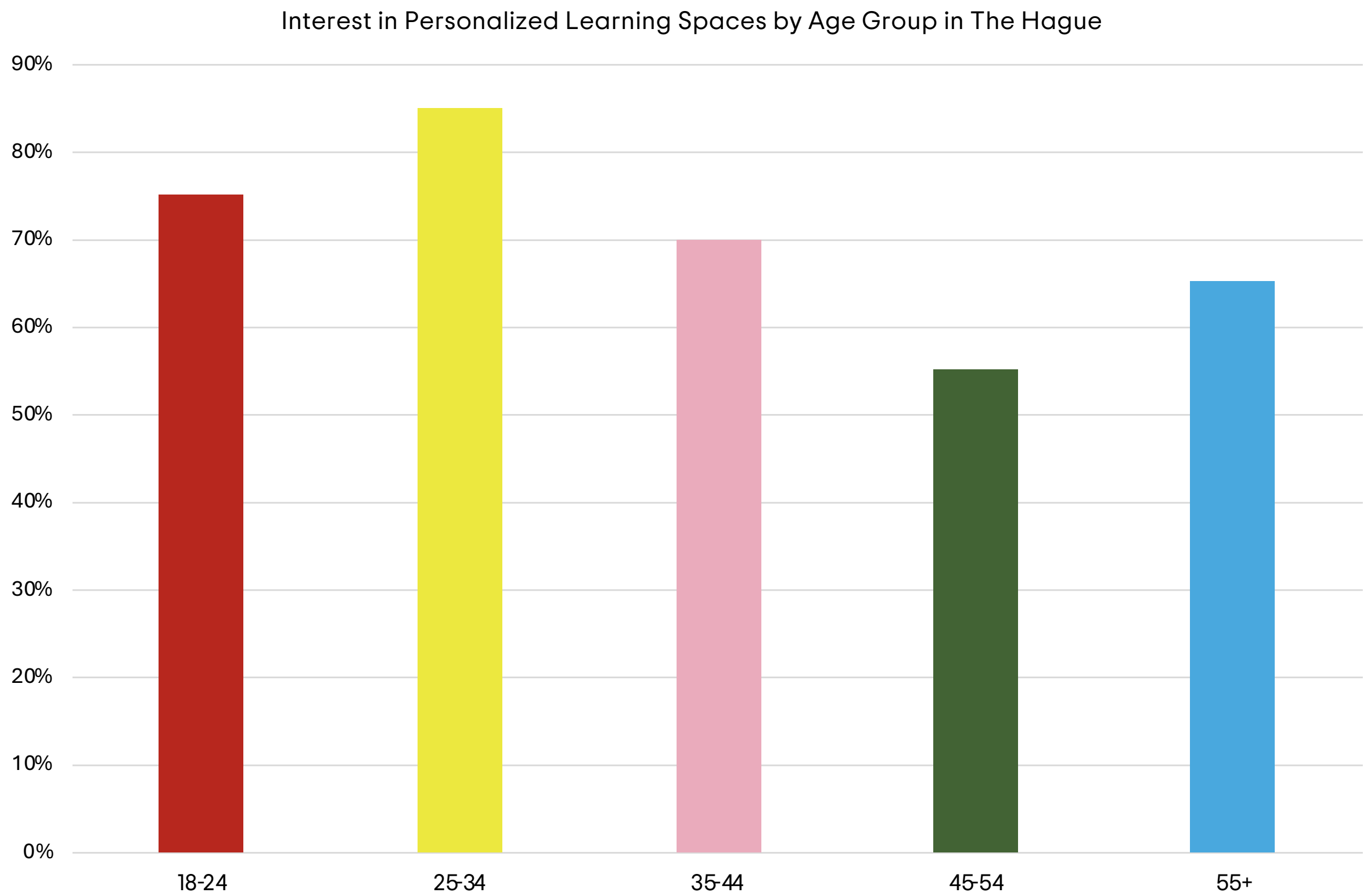
HORIZONTAL BRIEF

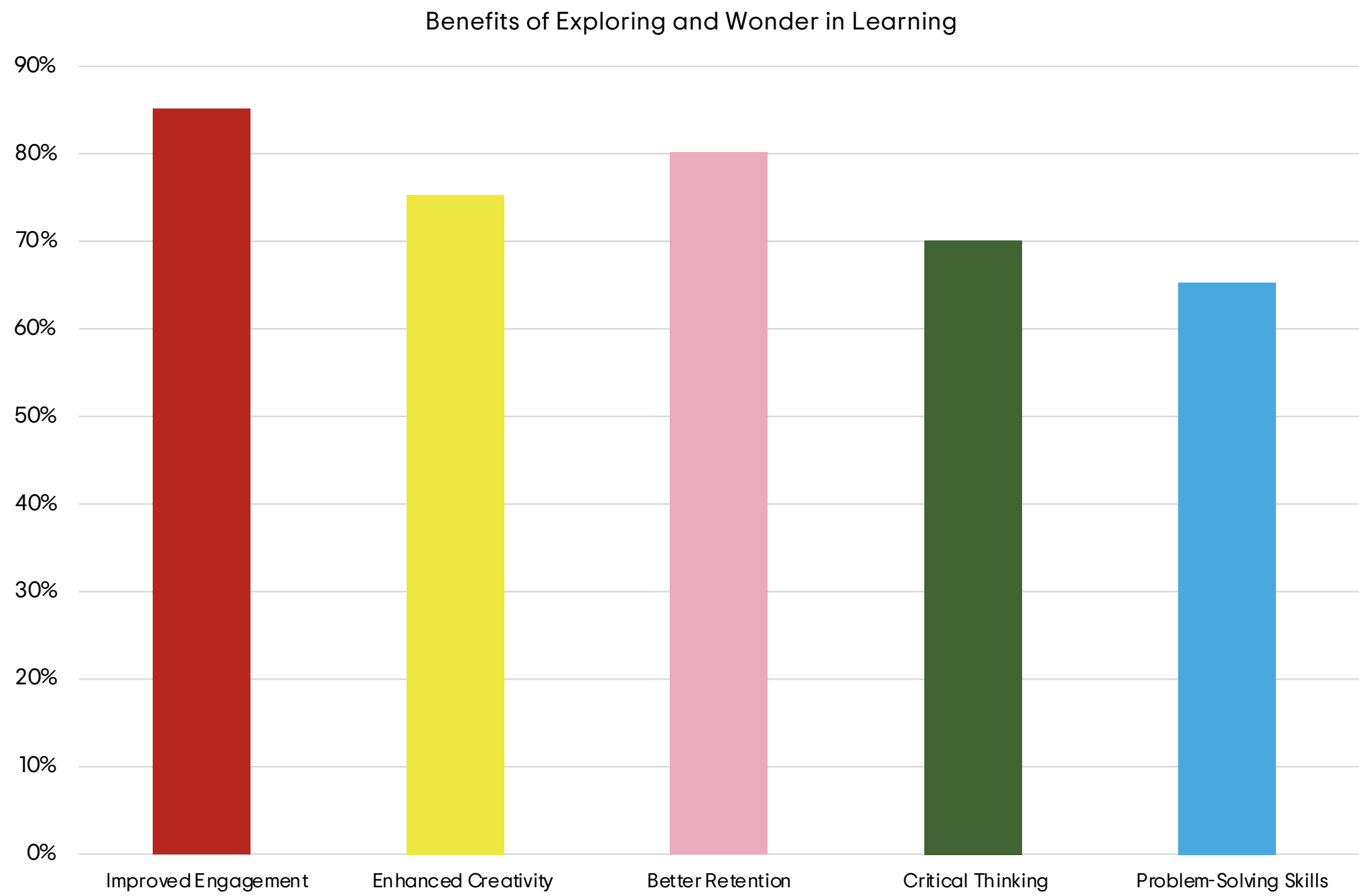
URBAN CONTEXT

DESIGN

SUSTAINABILITY







DATA

WUNDERKAMMER

HORIZONTAL BRIEF

URBAN CONTEXT

DESIGN

SUSTAINABILITY

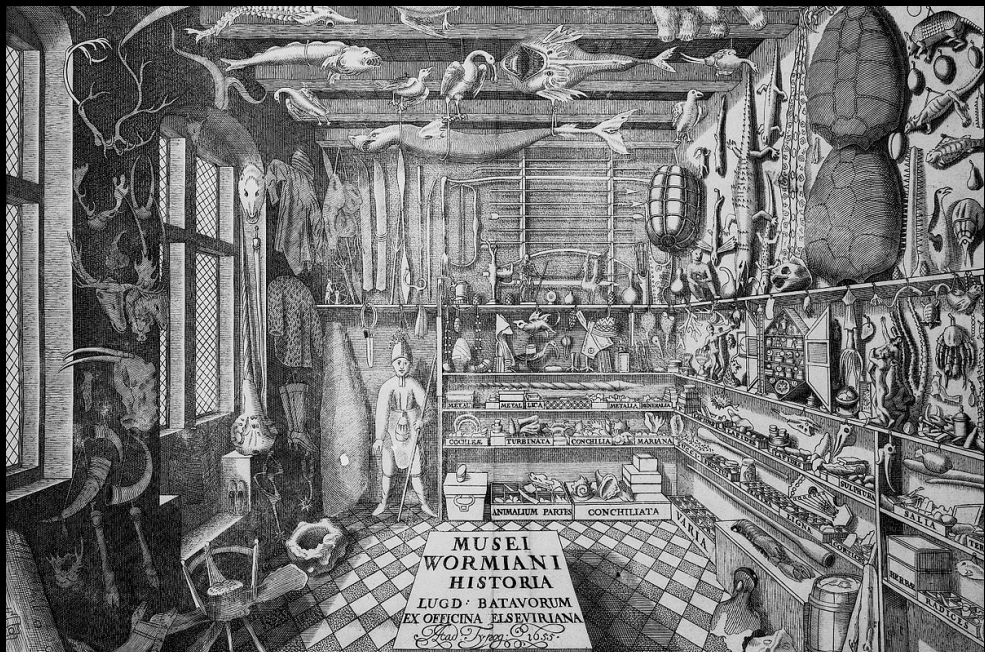
WUNDERKAMMER



a wunderkammer, also known as a “cabinet of curiosities,” is a collection of notable and often eclectic objects, displayed for curiosity and study

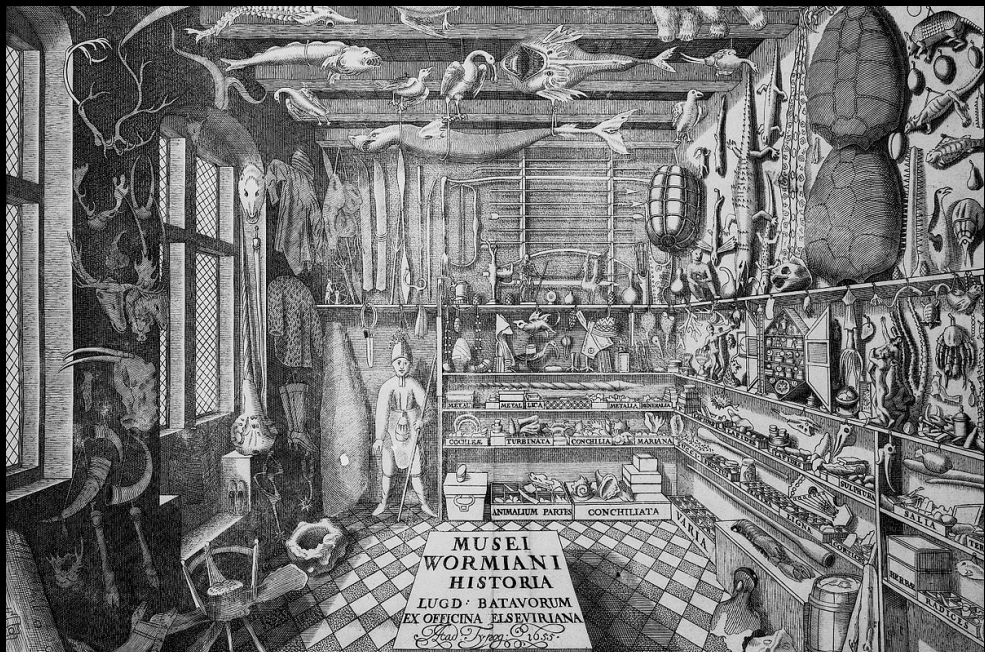
a wunderkammer in the context of architecture and a future university campus, refers to a conceptual space or structure designed to inspire curiosity, learning, and interdisciplinary exploration

WUNDERKAMMER



originating in the renaissance and baroque periods,
wunderkammers typically included natural specimens, artworks,
antiquities

WUNDERKAMMER

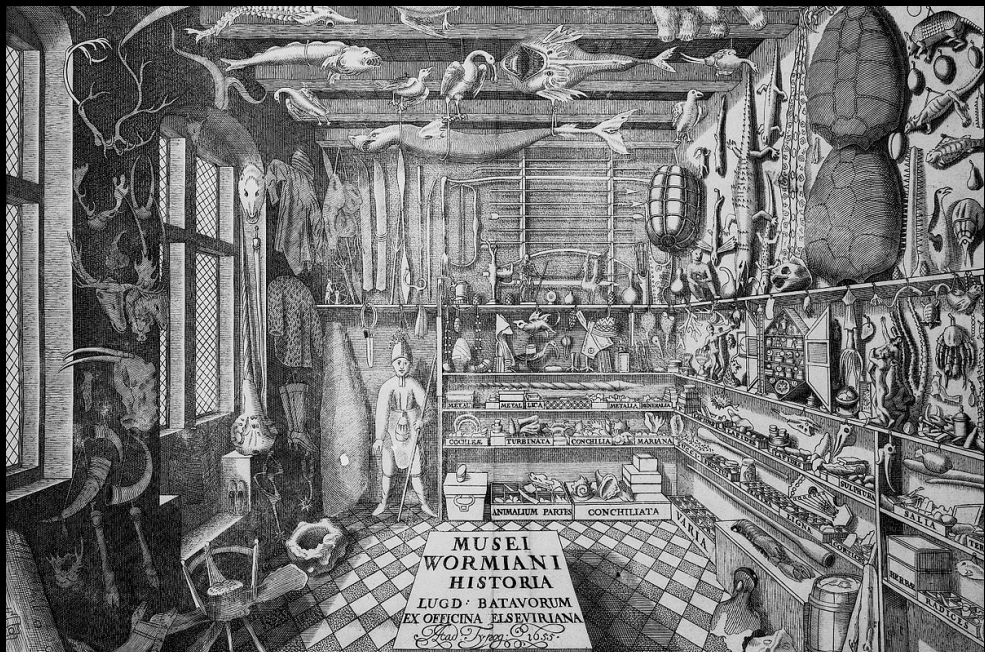


originating in the renaissance and baroque periods, wunderkammers typically included natural specimens, artworks, antiquities



the collections were early precursors to modern museums and reflected the collectors' interest in the natural world, art, science, and the exotic

WUNDERKAMMER



originating in the renaissance and baroque periods, wunderkammers typically included natural specimens, artworks, antiquities



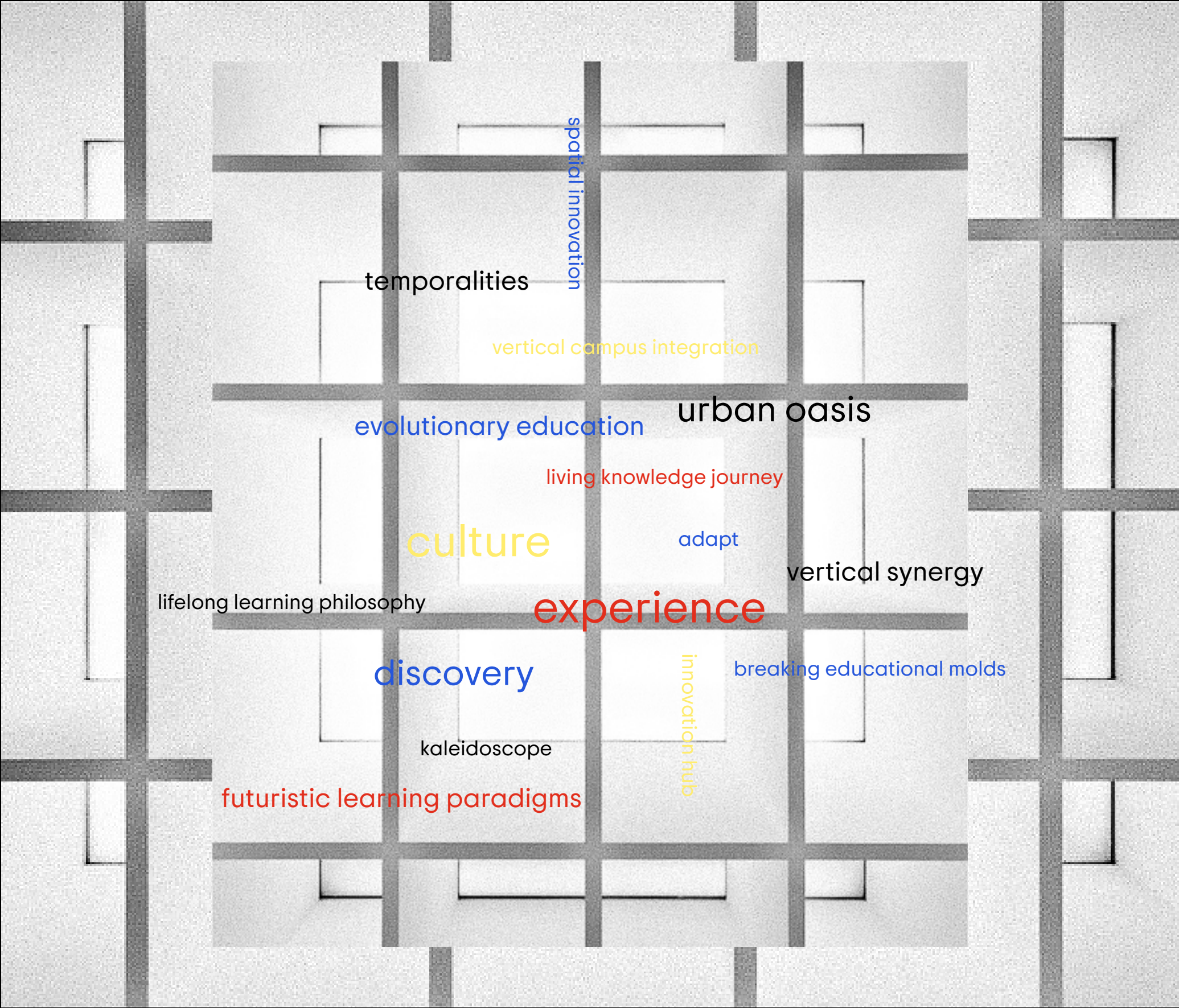
the collections were early precursors to modern museums and reflected the collectors' interest in the natural world, art, science, and the exotic



nowadays, wunderkammers evoke a sense of wonder and exploration by showcasing diverse objects, in universities, museums, private collections and even virtual spaces



old vs new



“the campus of the future” is an architectural marvel, blending a kaleidoscopic range of activities and experiences – a XXI century wunderkammer.

DATA

WUNDERKAMMER

HORIZONTAL BRIEF

URBAN CONTEXT

DESIGN

SUSTAINABILITY

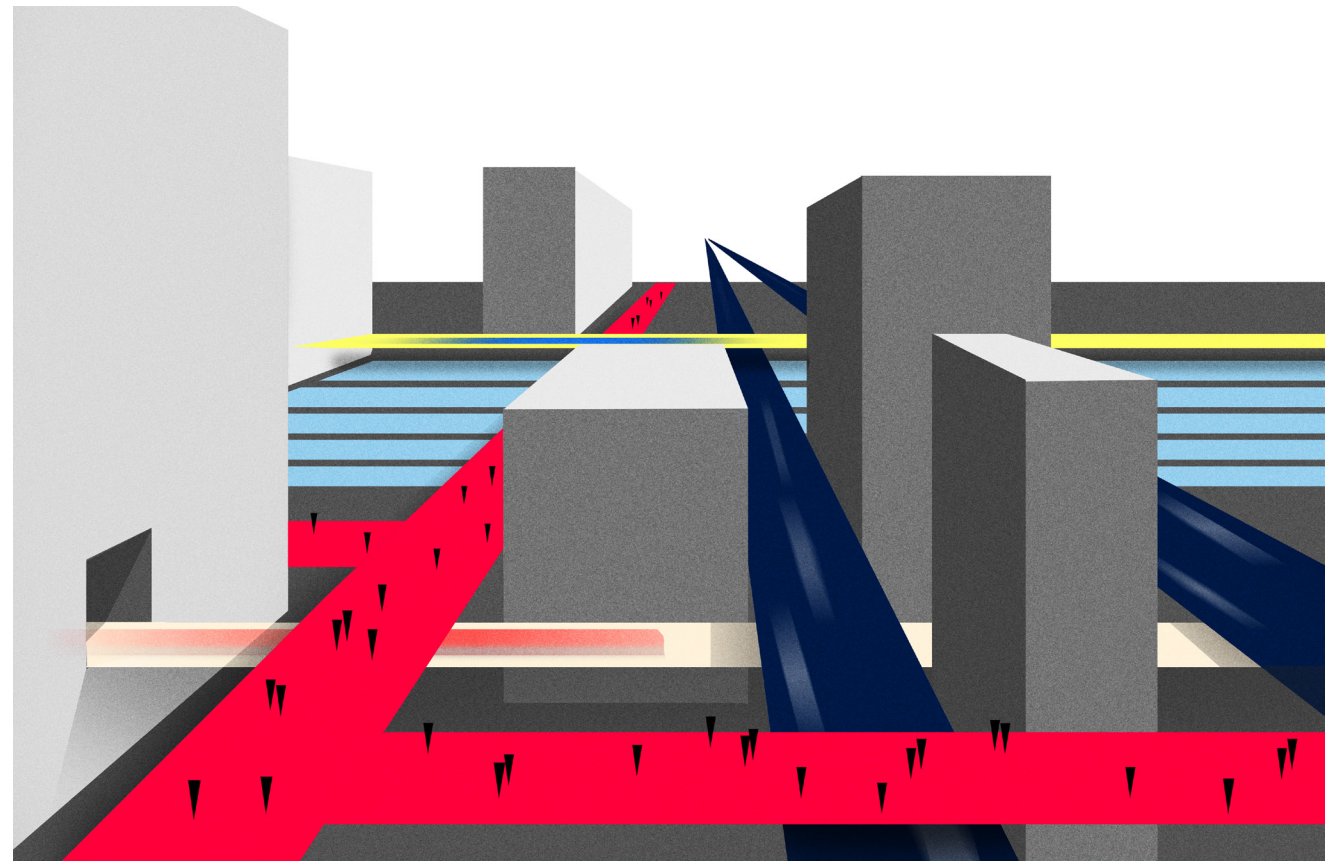
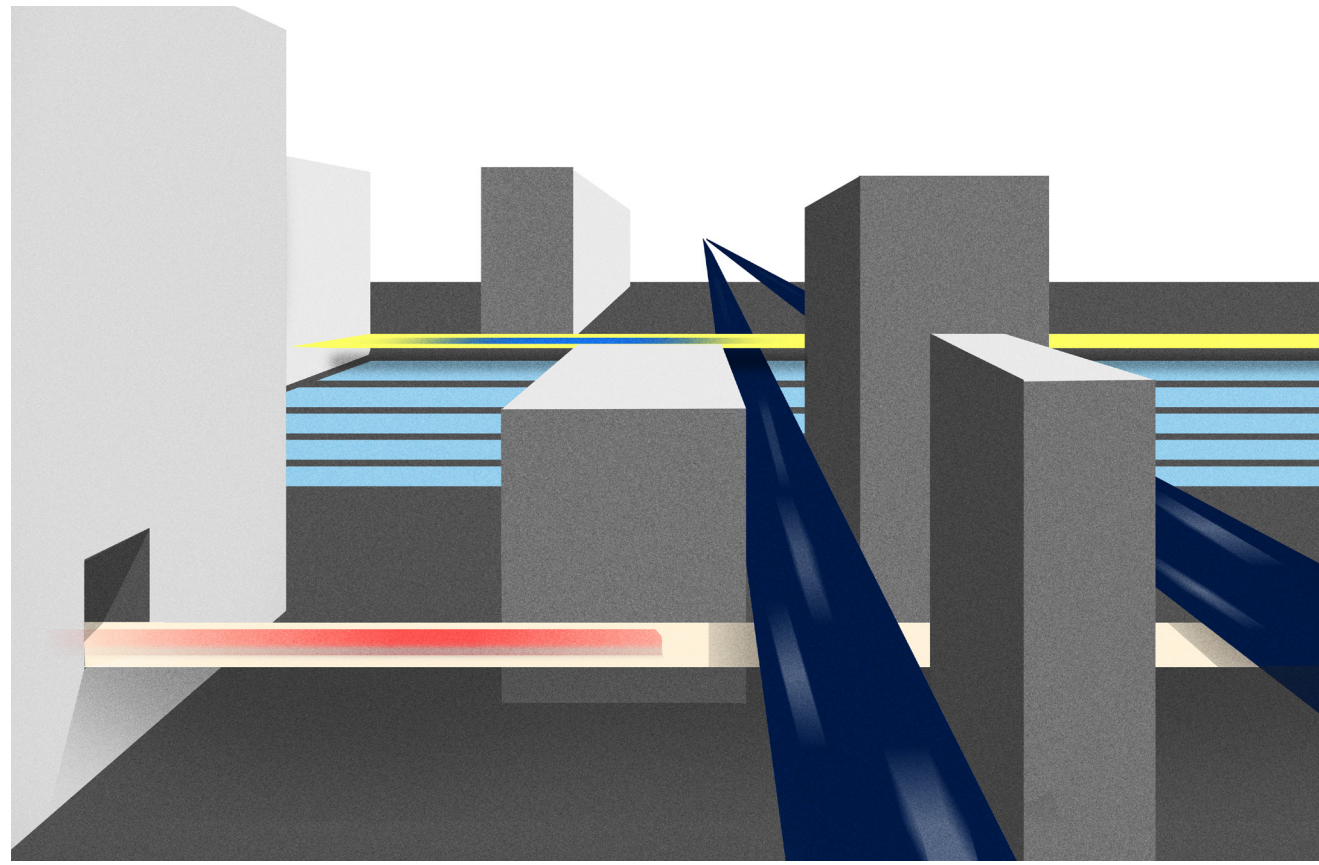
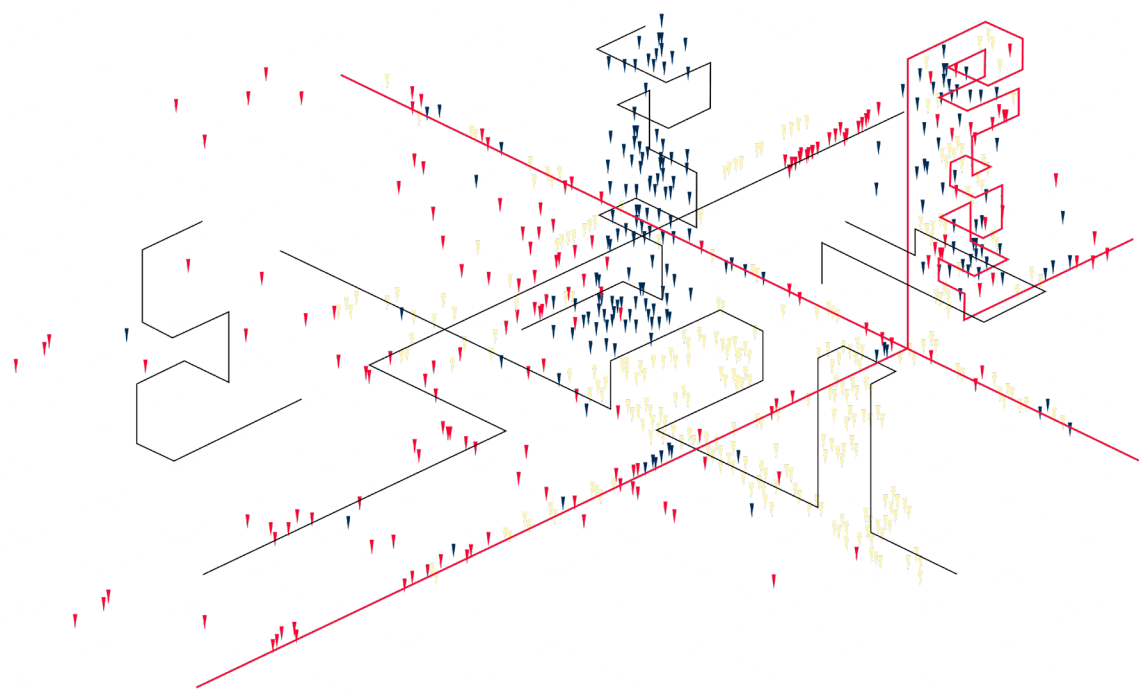
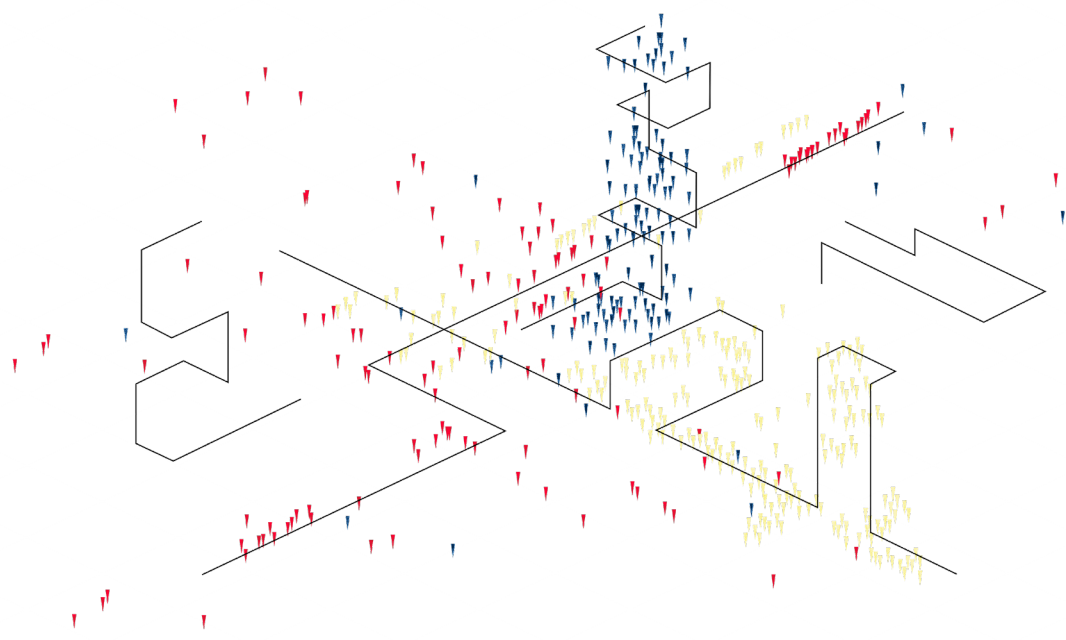
HORIZONTAL BRIEF: THE PUBLIC SPINE



HORIZONTAL BRIEF: THE PUBLIC SPINE



HORIZONTAL BRIEF: THE PUBLIC SPINE



the missing layer

DATA

WUNDERKAMMER

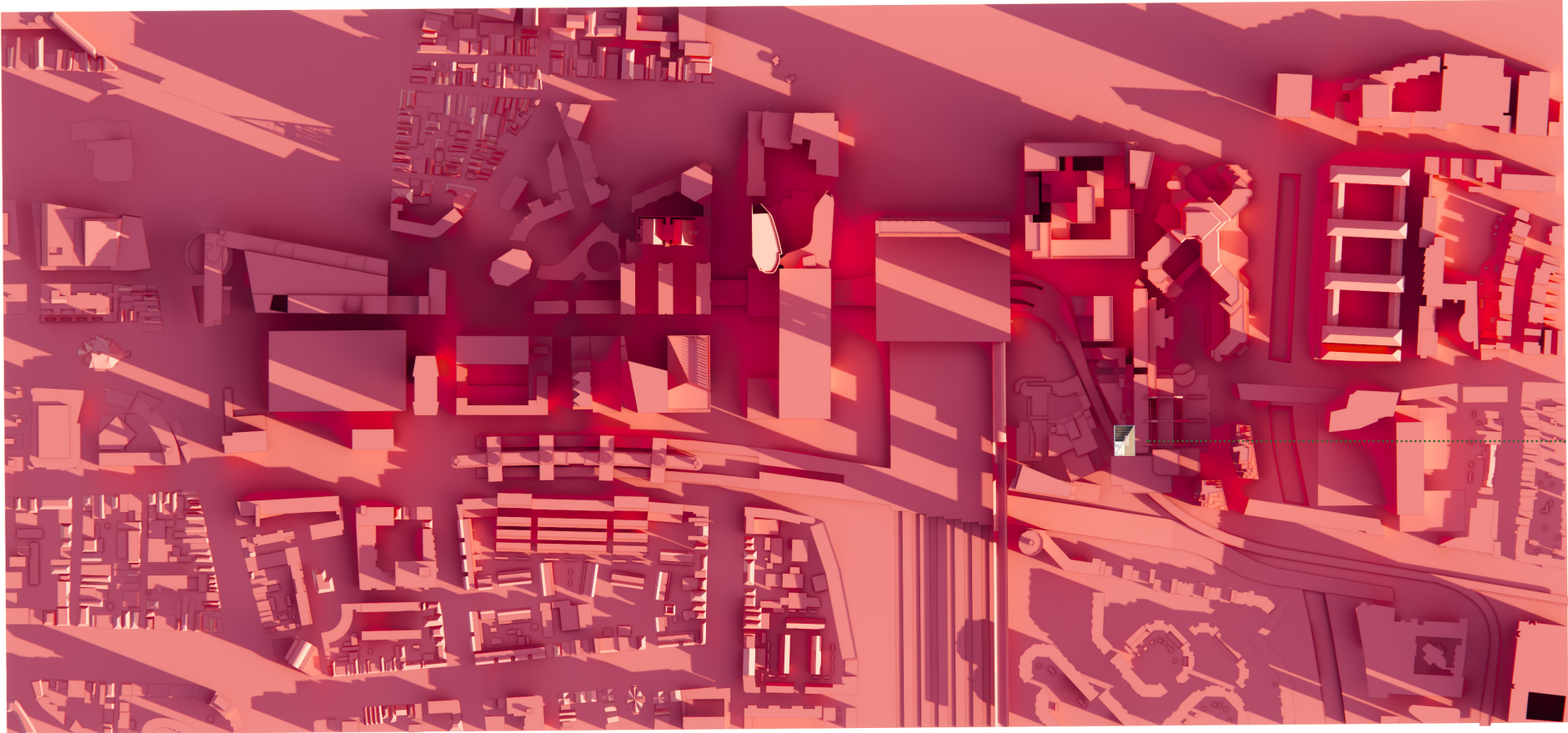
HORIZONTAL BRIEF

URBAN CONTEXT

DESIGN

SUSTAINABILITY

URBAN CONTEXT



place of the campus

URBAN CONTEXT

surrounding buildings



west side library

URBAN CONTEXT

surrounding buildings



west side library



south side library

URBAN CONTEXT

surrounding buildings



west side library



south side library



the hague central station

URBAN CONTEXT

surrounding buildings



west side library



south side library



the hague central station



leiden university

URBAN CONTEXT

surrounding buildings



west side library



south side library



the hague central station



leiden university



new babylon

URBAN CONTEXT

surrounding buildings



west side library



south side library



the hague central station



leiden university



new babylon



national archive

URBAN CONTEXT



nolli map: buildings

URBAN CONTEXT



green

URBAN CONTEXT



water

URBAN CONTEXT



pedestrian and bicycle

URBAN CONTEXT



public transport

URBAN CONTEXT



highways

URBAN CONTEXT



DATA

WUNDERKAMMER

HORIZONTAL BRIEF

URBAN CONTEXT

DESIGN

SUSTAINABILITY

vertical campus

efficient use of space

multiplicite campus

vacant space

vertical campus

efficient use of space

multiplicite campus

vacant space

clusters

experience, learning and creativity

flexibility and adaptability

sense of community

vertical campus

efficient use of space

multiplicite campus

vacant space

clusters

experience, learning and creativity

flexibility and adaptability

sense of community

wunderkammer

intergrate in whole building and each cluster serves as a modern-day cabinet of curiosities

unique and immersive environments that stimulate curiosity, interdisciplinary learning, and holistic education

vertical campus

efficient use of space

multiplicite campus

vacant space

clusters

experience, learning and creativity

flexibility and adaptability

sense of community

wunderkammer

intergrate in whole building and each cluster serves as a modern-day cabinet of curiosities

unique and immersive environments that stimulate curiosity, interdisciplinary learning, and holistic education

reuse

connect to existing buildings

recycled materials

cluster program



original

cluster program



merge

cluster program



cluster

cluster program



+ vacant spaces

function layout



overview

the exploratorium 2

the artisphere

the innovatorium

the exploratorium 1

the gateway

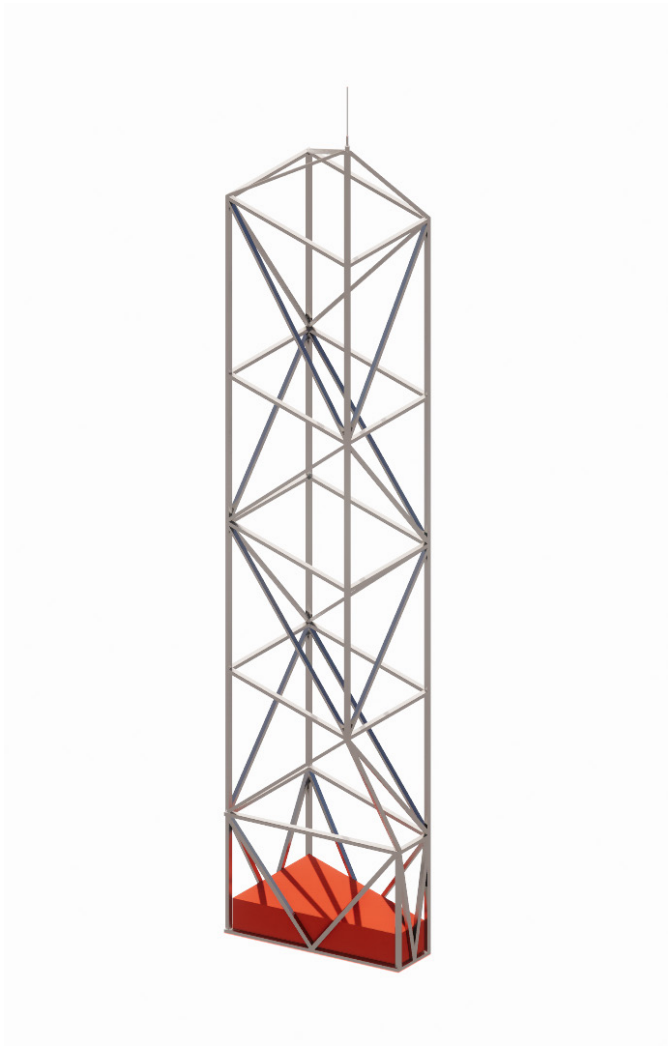
the experience

the corporate core

wellness & sports

the social nexus

1. the gateway



entrance of the tower where the journey throughout the building starts

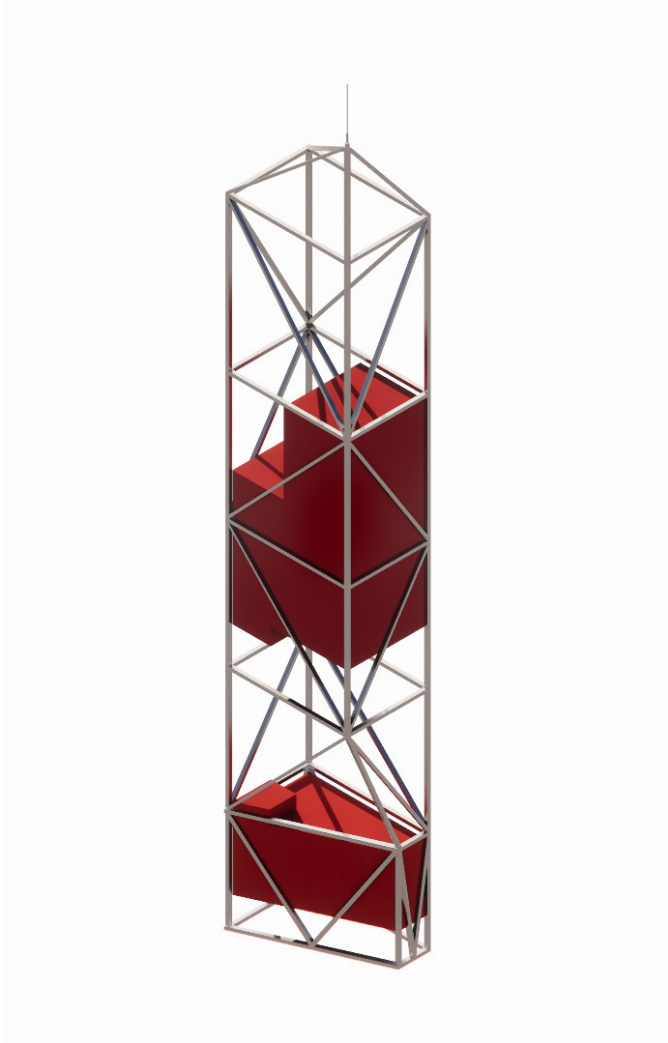


DAYLIGHT

PRIVATE VS RELAX

HIGH CEILINGS

2. the exploratorium



learning and discovery hub: a dynamic and immersive environment designed to foster a culture of curiosity, creativity, and interdisciplinary learning

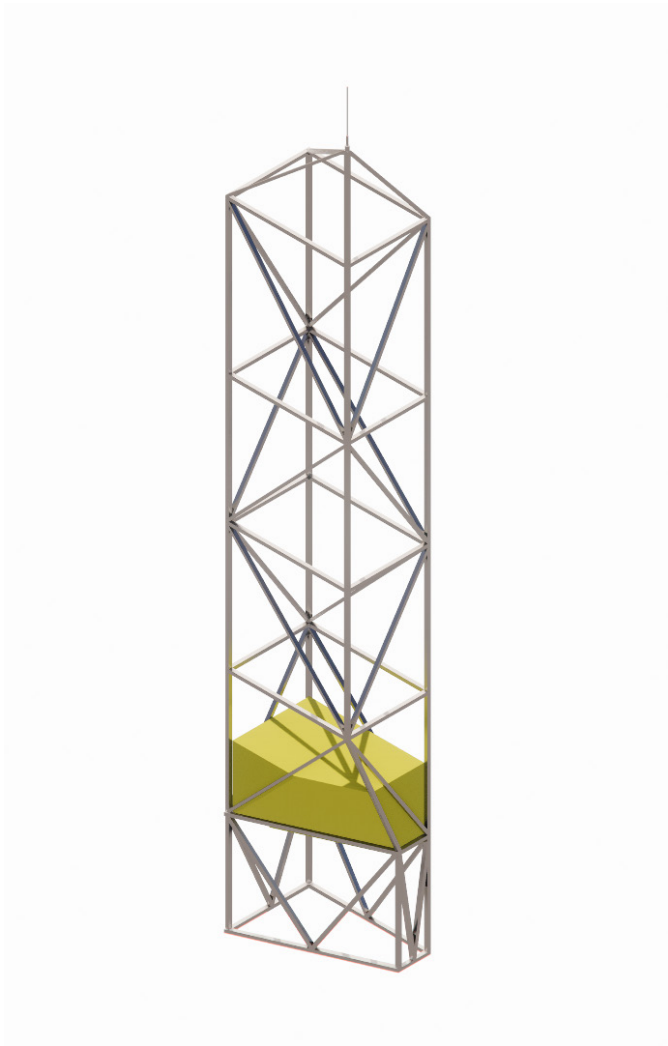
SMALLER & BIGGER SPACES

MIX OF FUNCTIONS

SOFT FLOORING

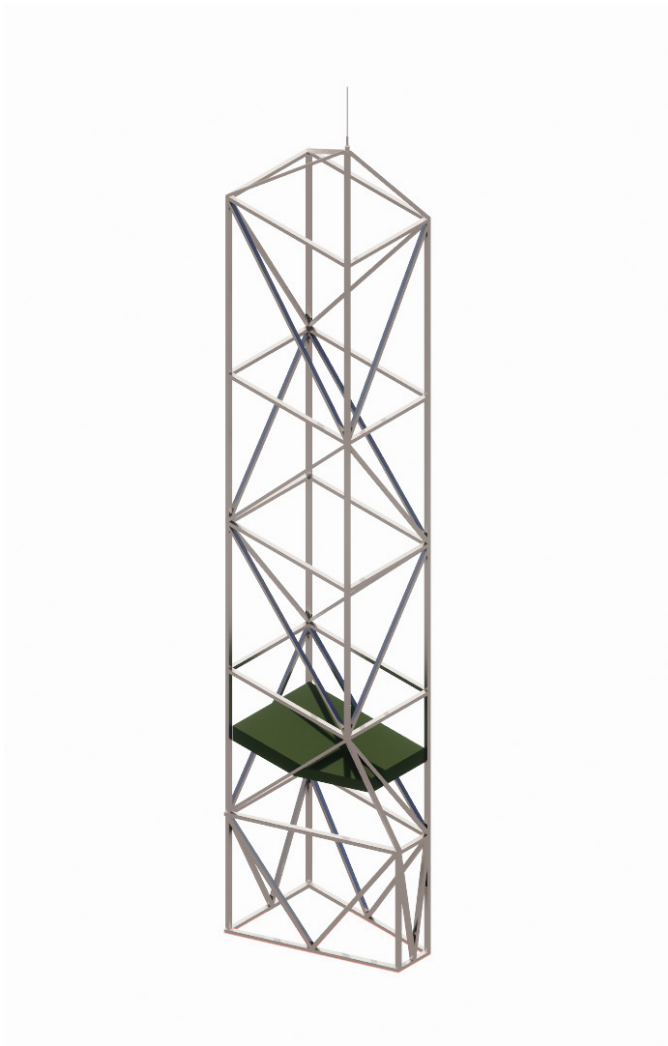
EXPERIENCE

3. the innovatorium

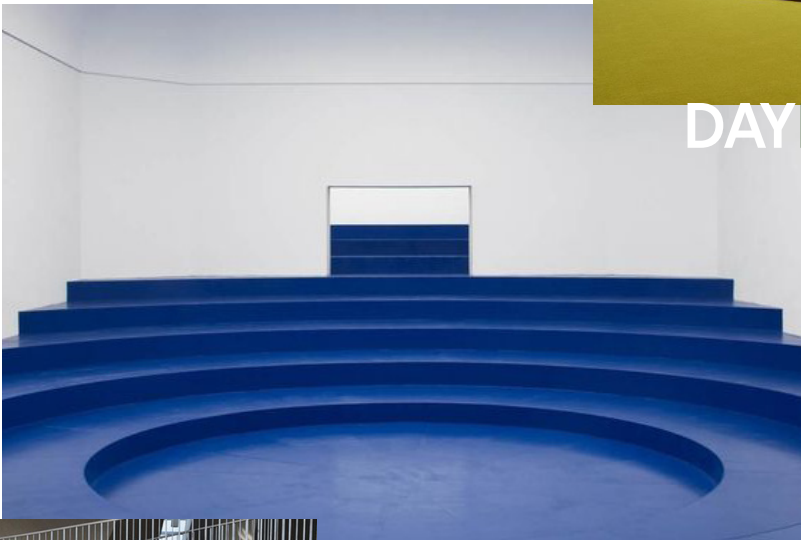


innovation hub: a space for research and development, creativity and technological advancement, designed to support the needs of students, educators, and professionals engaged in work across various scientific and technological fields

4. the social nexus



community and interaction: a place for social engagement. This cluster is dedicated to fostering a sense of community and belonging among students, faculty, and visitors



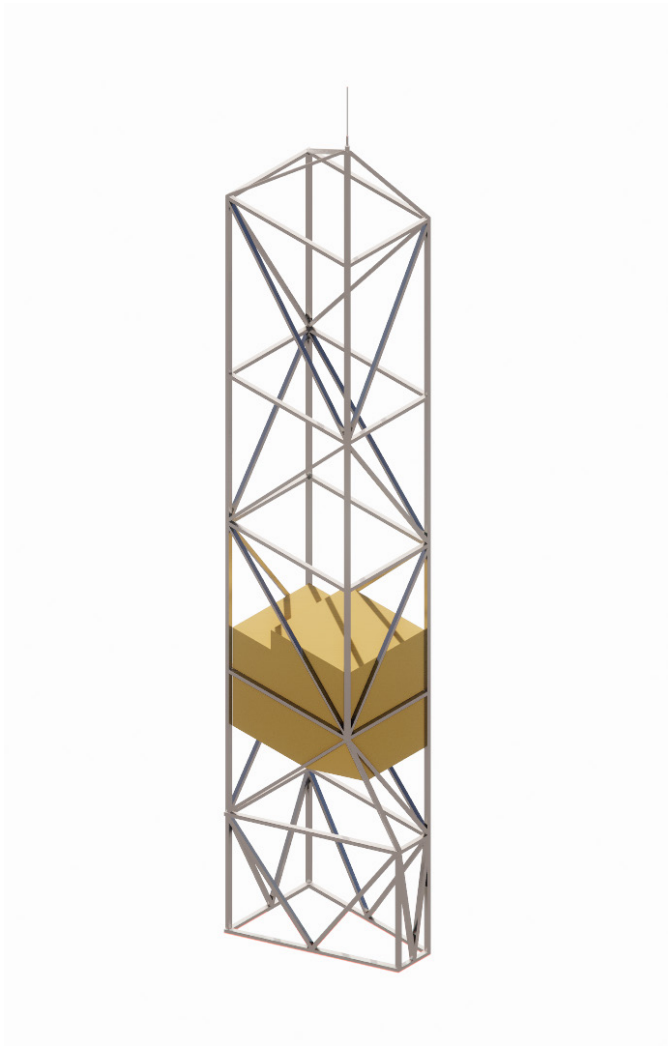
DAYLIGHT

FORMAL

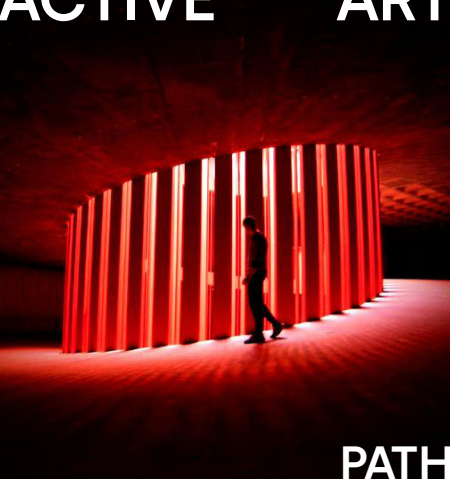
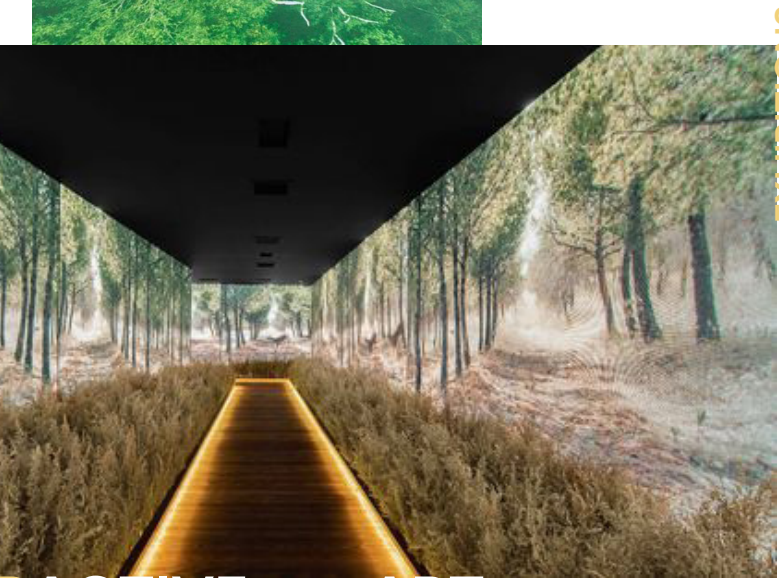
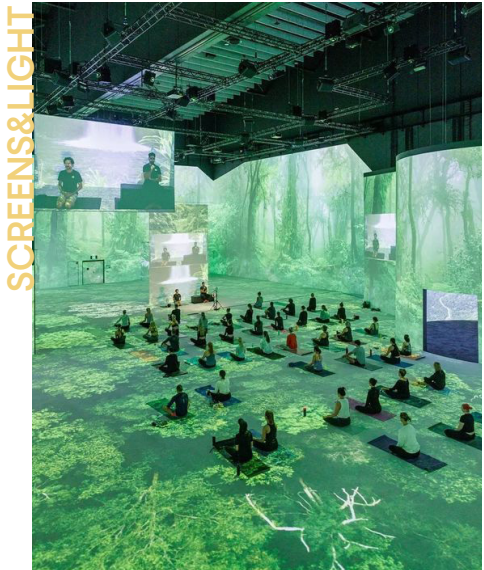


CLEAN

5. the artisphere



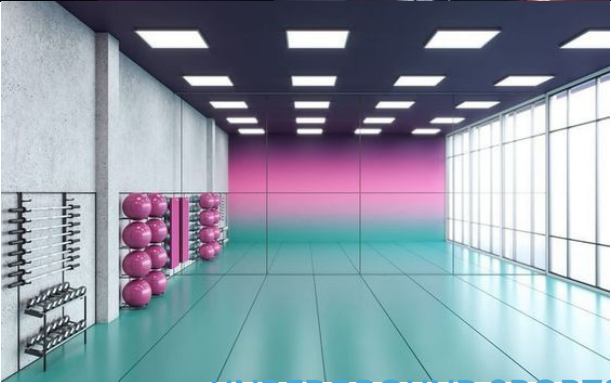
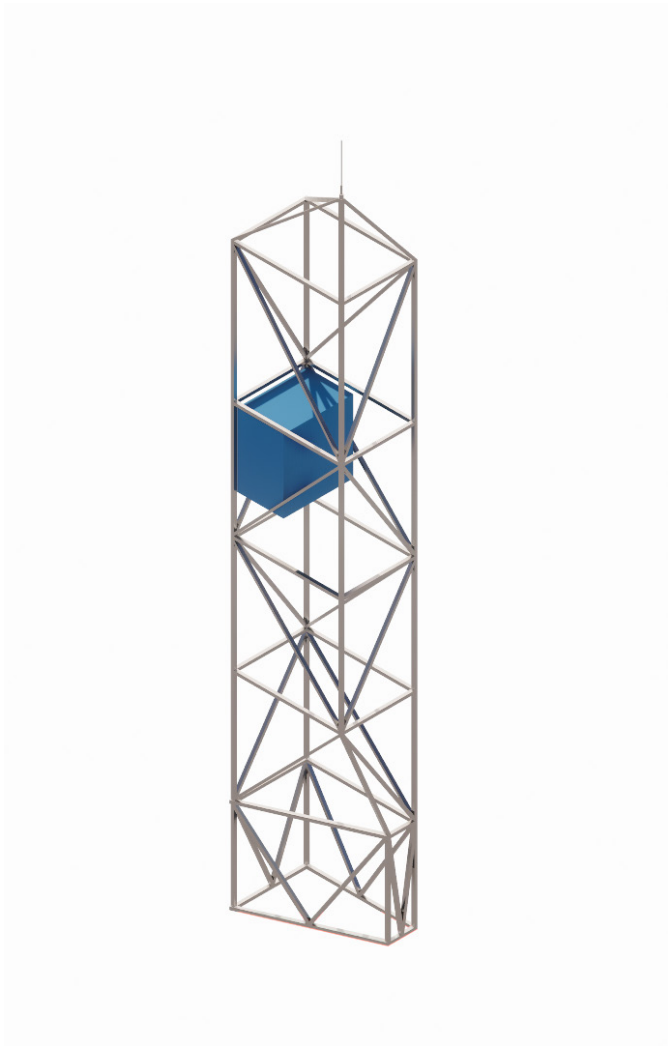
the creative walkthrough: dedicated to the celebration and exploration of art in its many forms, providing a dynamic environment where people can engage with visual arts



INTERACTIVE ART

PATHWAY

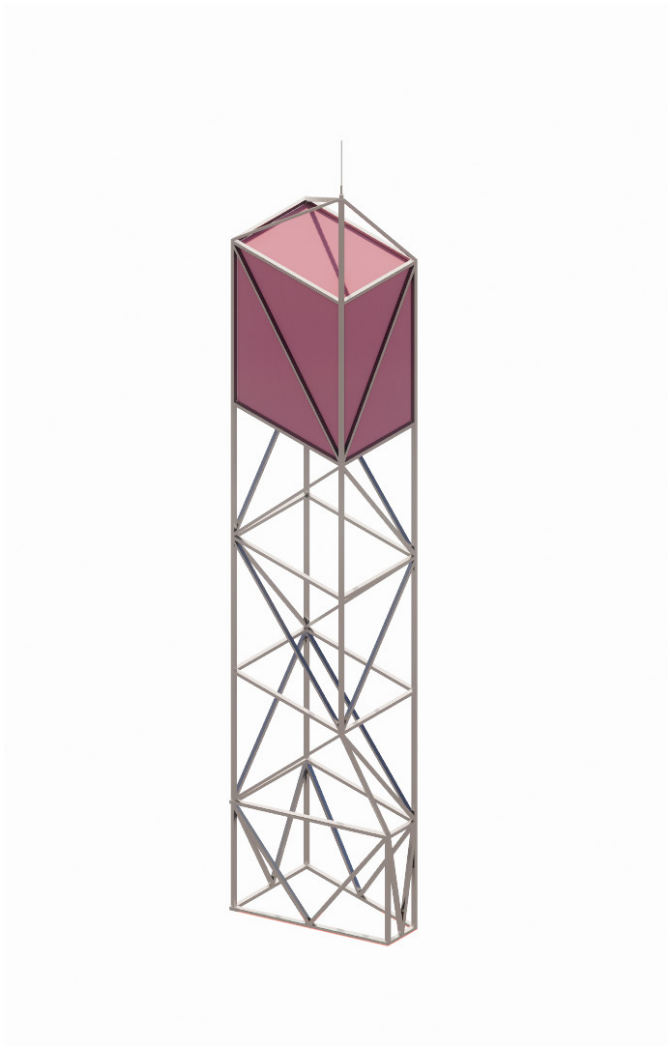
6. wellness and sports



UNDERGROUND SPORTSHALL

this cluster is dedicated to promoting physical health, mental well-being, and overall fitness

7. corporate core



the office of the tower, dedicated to fostering professional development, innovation, and entrepreneurial activities with a biophilic atmosphere



FLEXIBLE



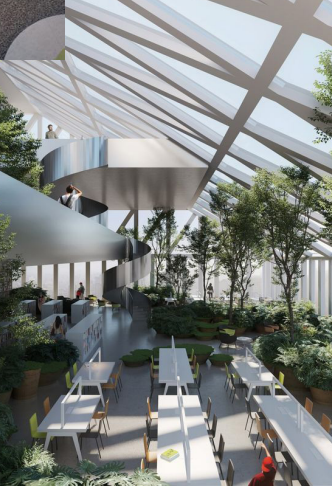
COOL WHITE LIGHT



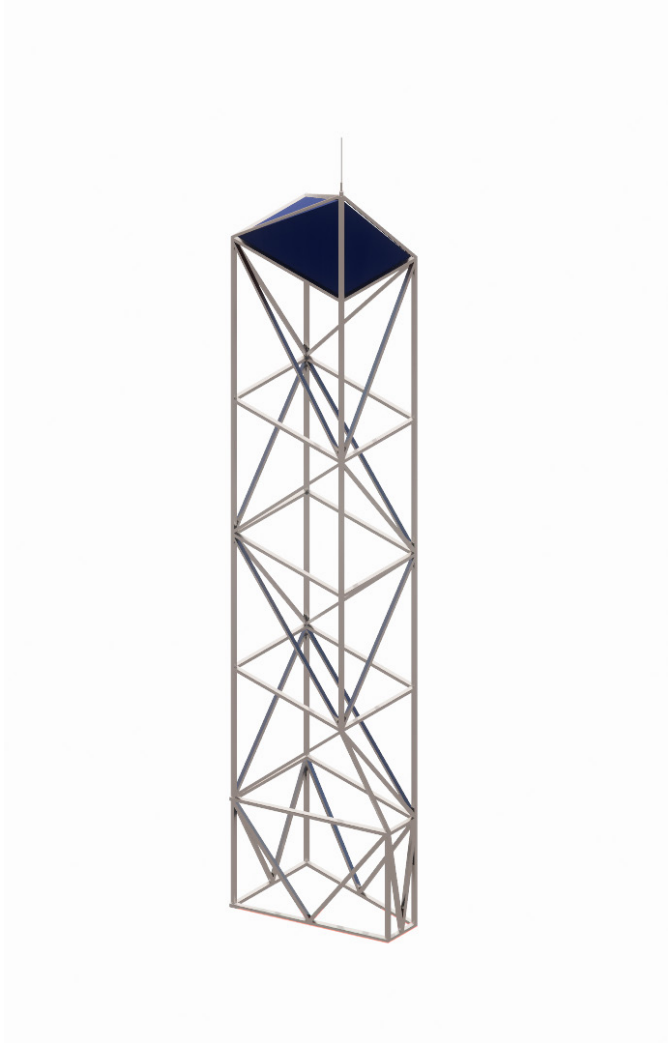
BIOPHILIC



SOFT FURNITURE



8. the experience

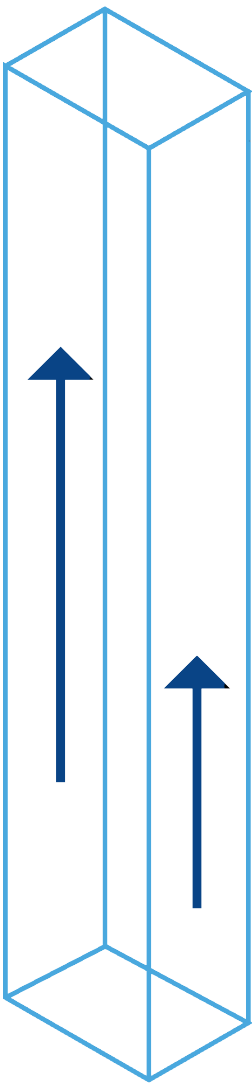


BIG SPACE



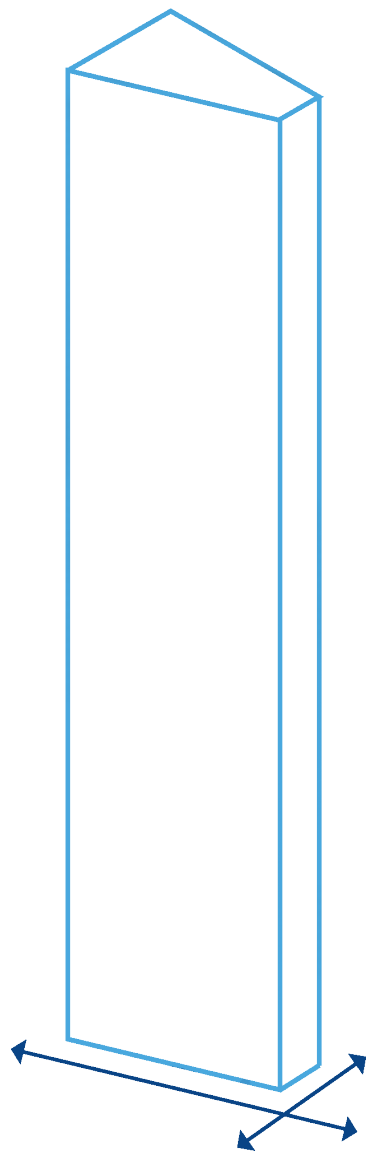
the lookout and climax, featuring a planetorium for educational purposes and an observationdeck

the formal evolution



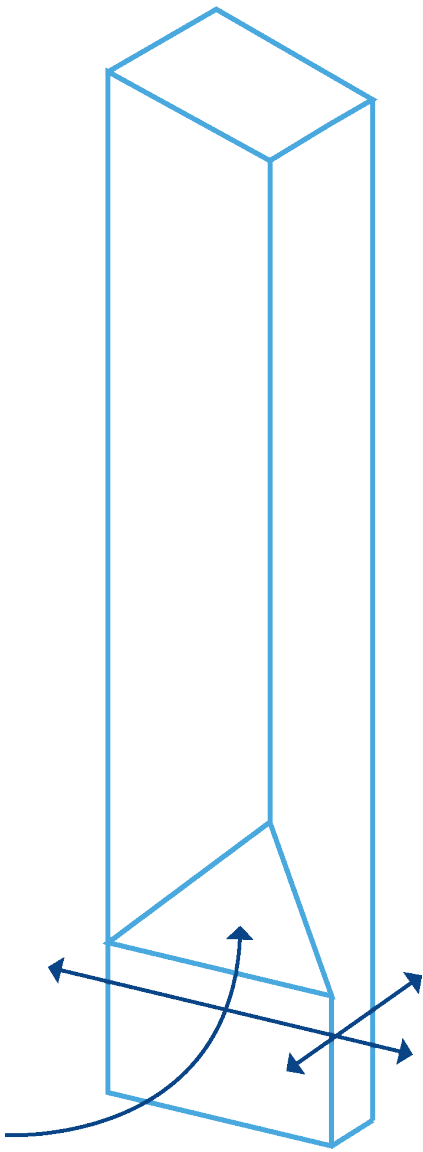
mass risen from the urban context

the formal evolution



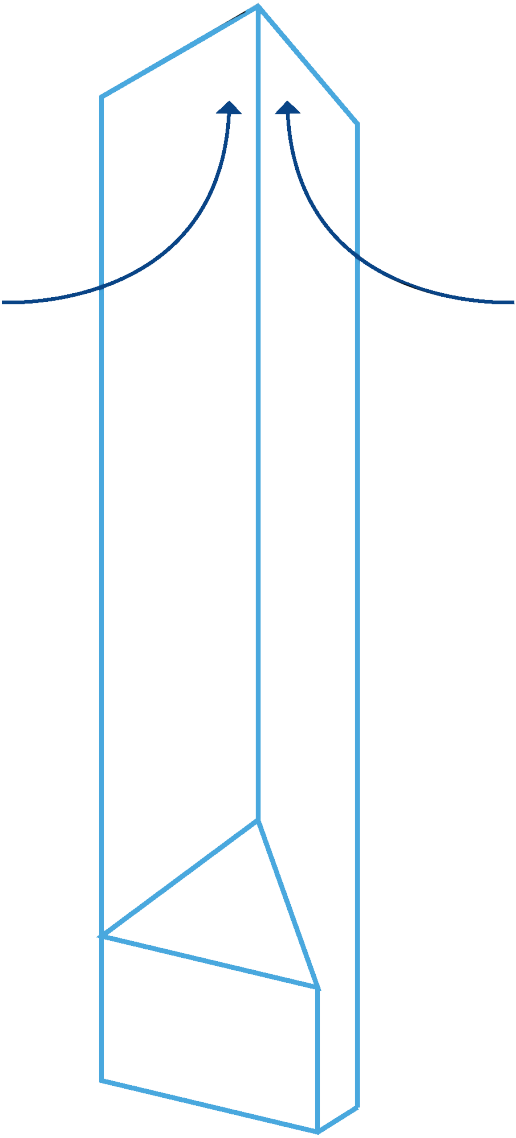
cut mass alongside surrounding borders (metro line)

the formal evolution

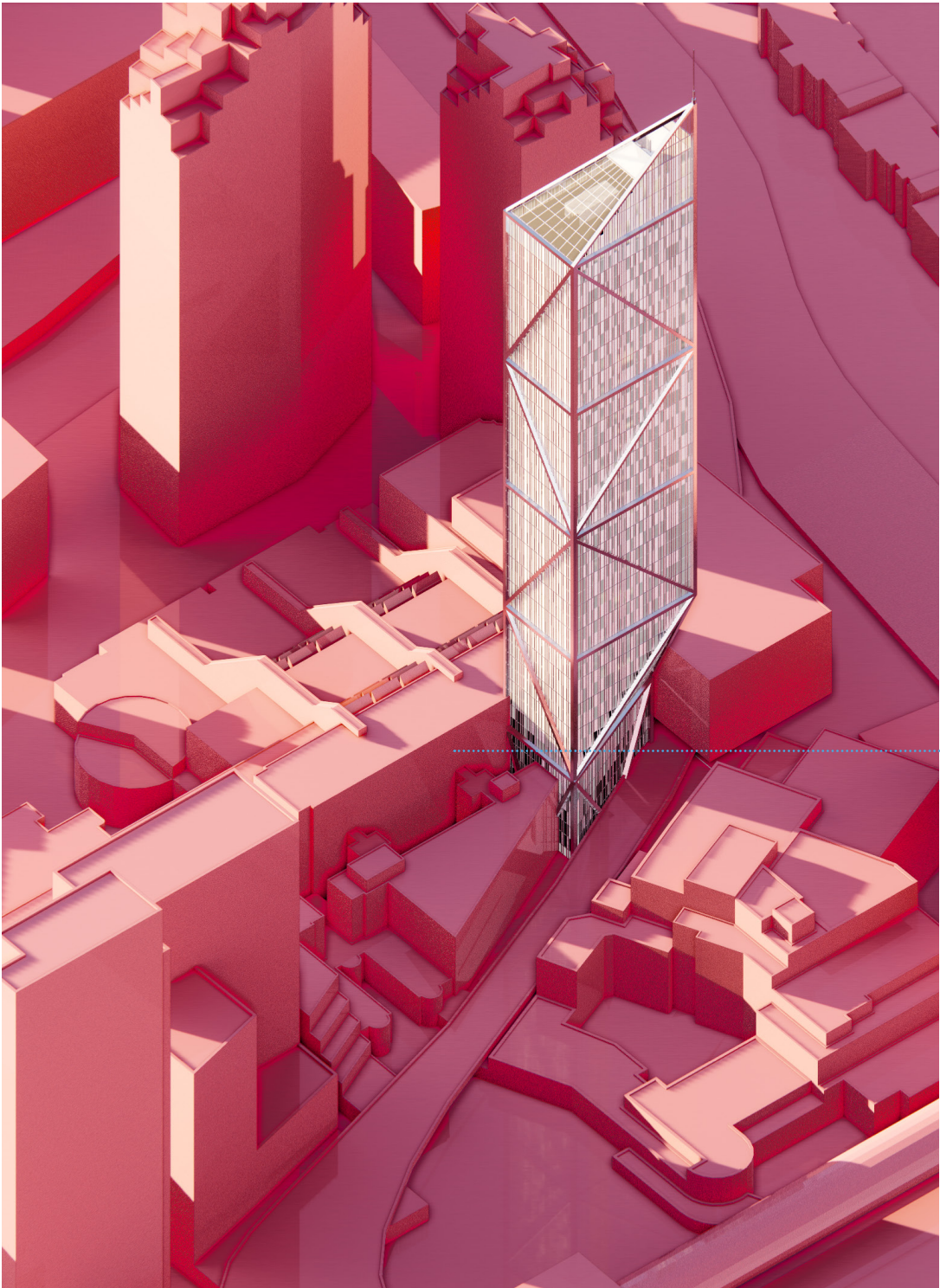


edge to maximize the surface space

the formal evolution



the crown of the tower



offices and library

6.000 sqm

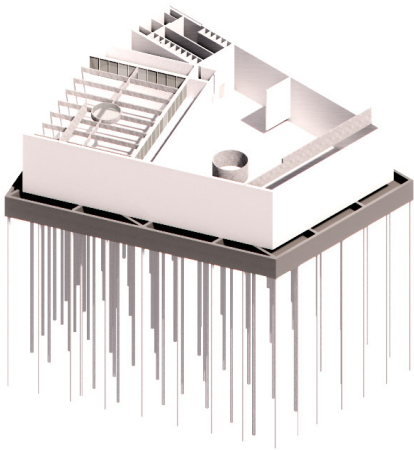
the building connects on certain points to the existing library, and parts of the facade are reused for the exterior of some spaces

assembly structure per section



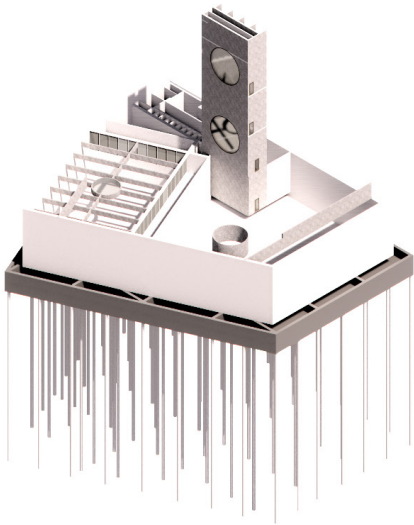
foundation

assembly structure per section



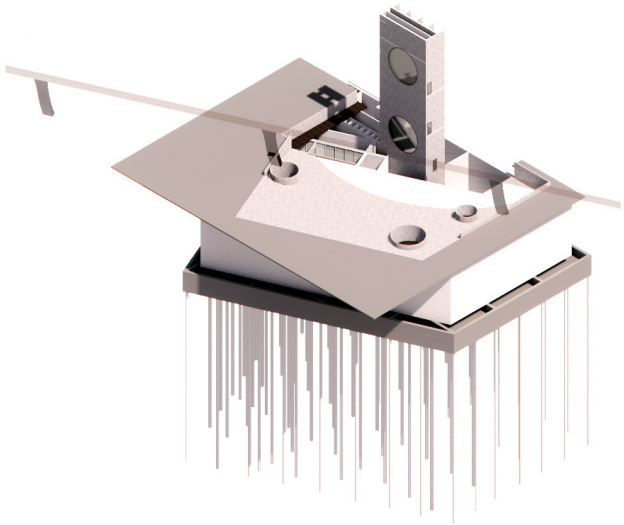
basement

assembly structure per section



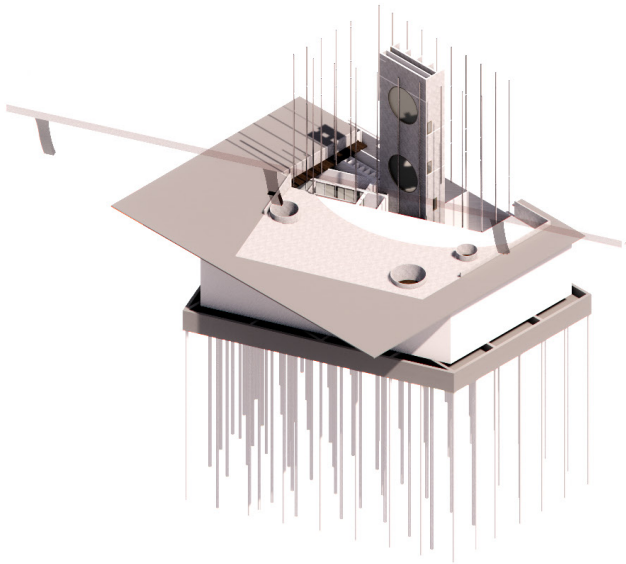
core

assembly structure per section



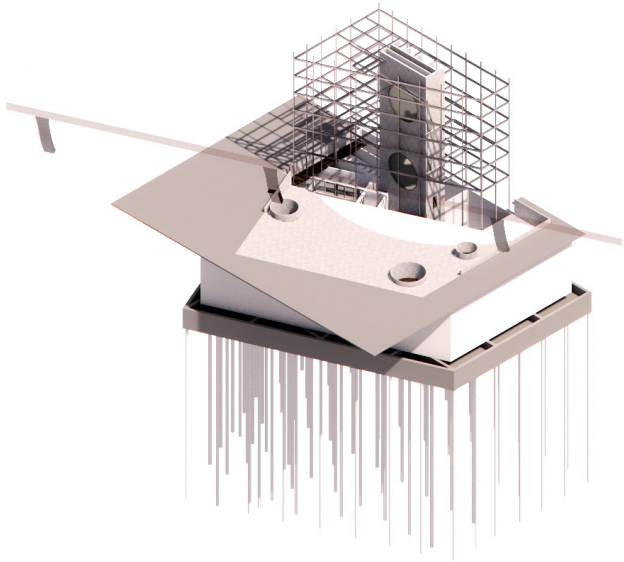
square

assembly structure per section



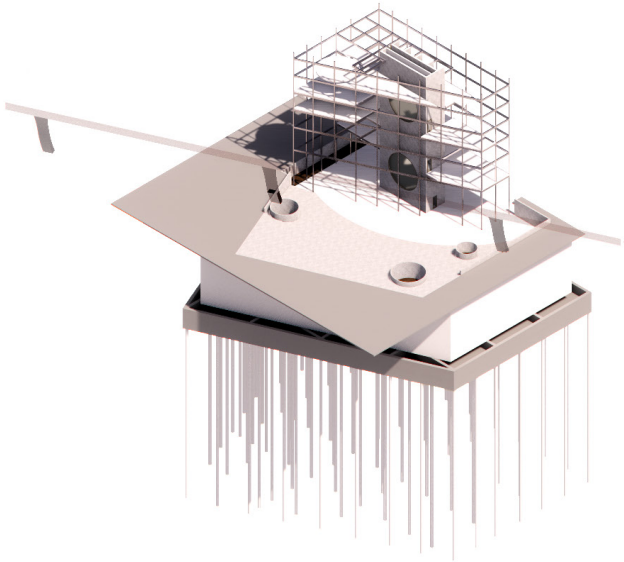
columns

assembly structure per section



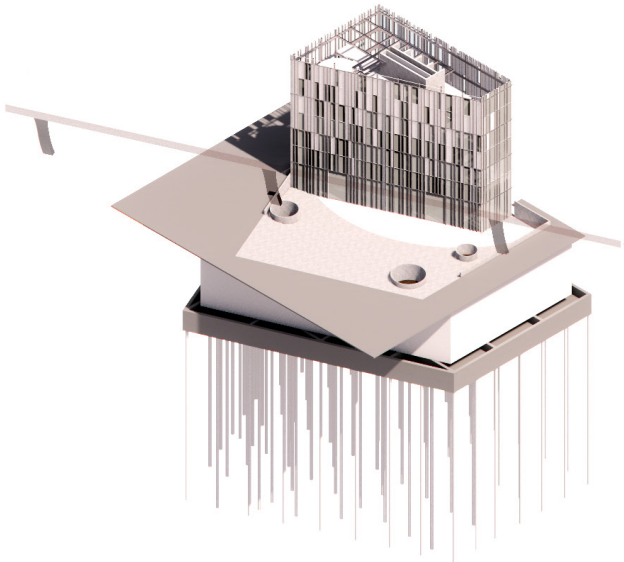
beams

assembly structure per section



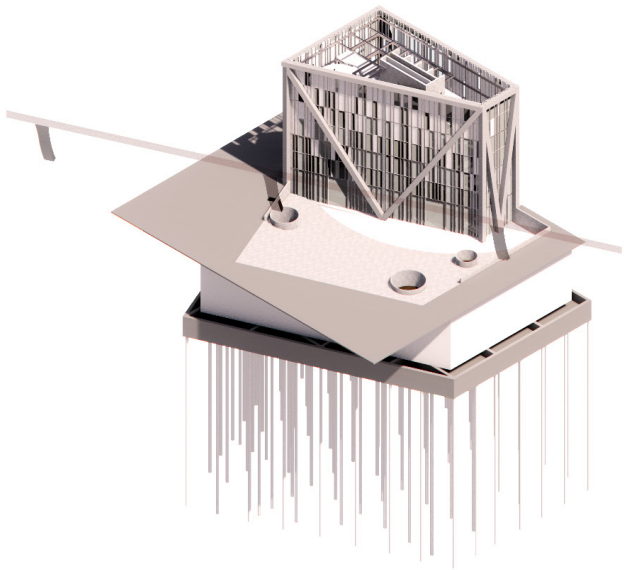
floors

assembly structure per section



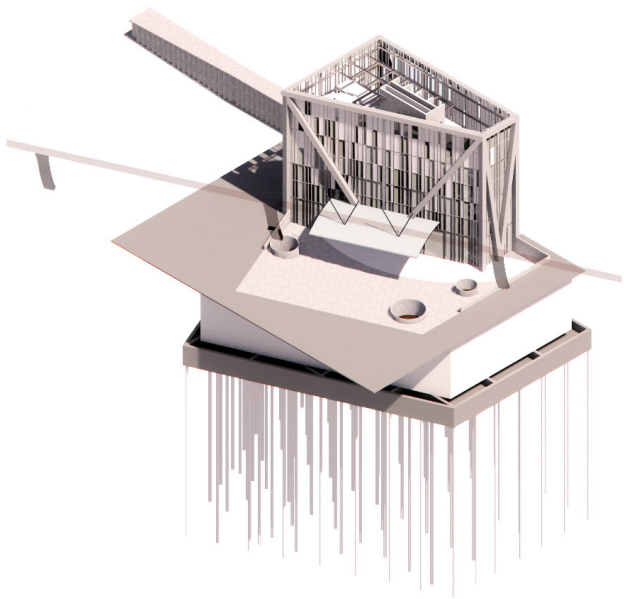
facade

assembly structure per section



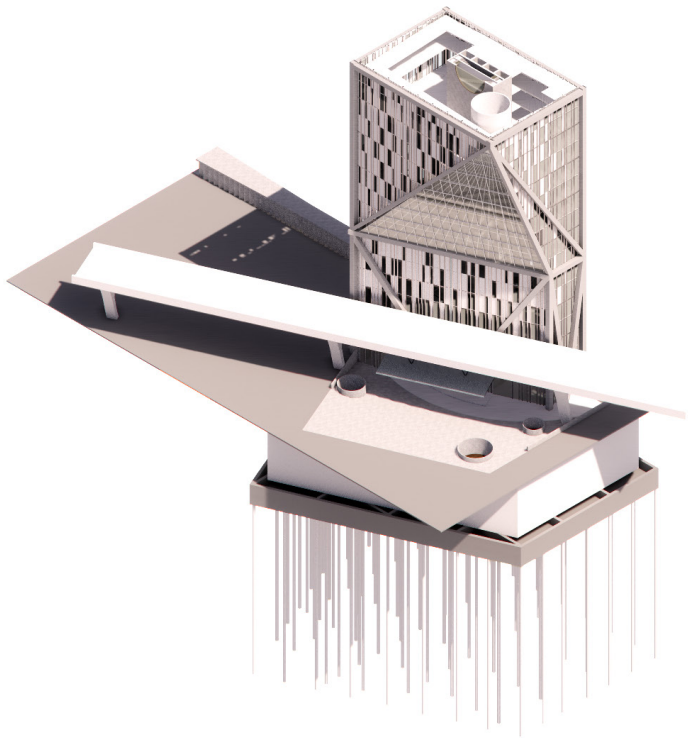
exo skeleton

assembly structure per section



entrances

assembly full structure



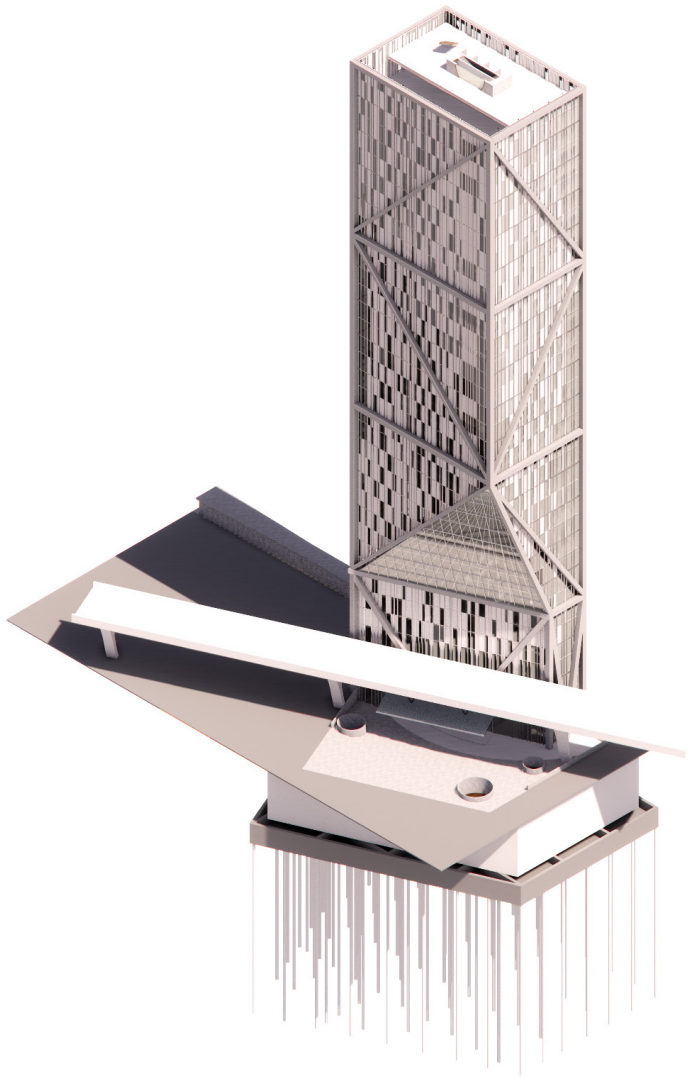
repeat steps for each section

assembly full structure



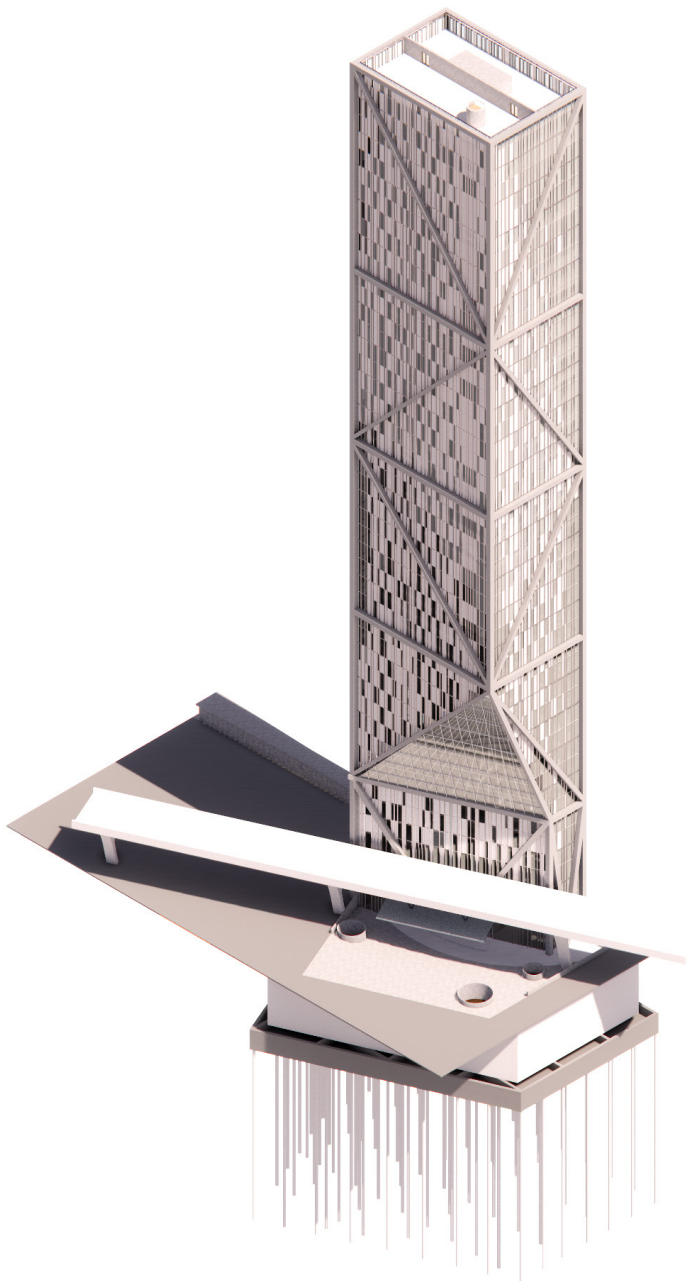
repeat steps for each section

assembly full structure



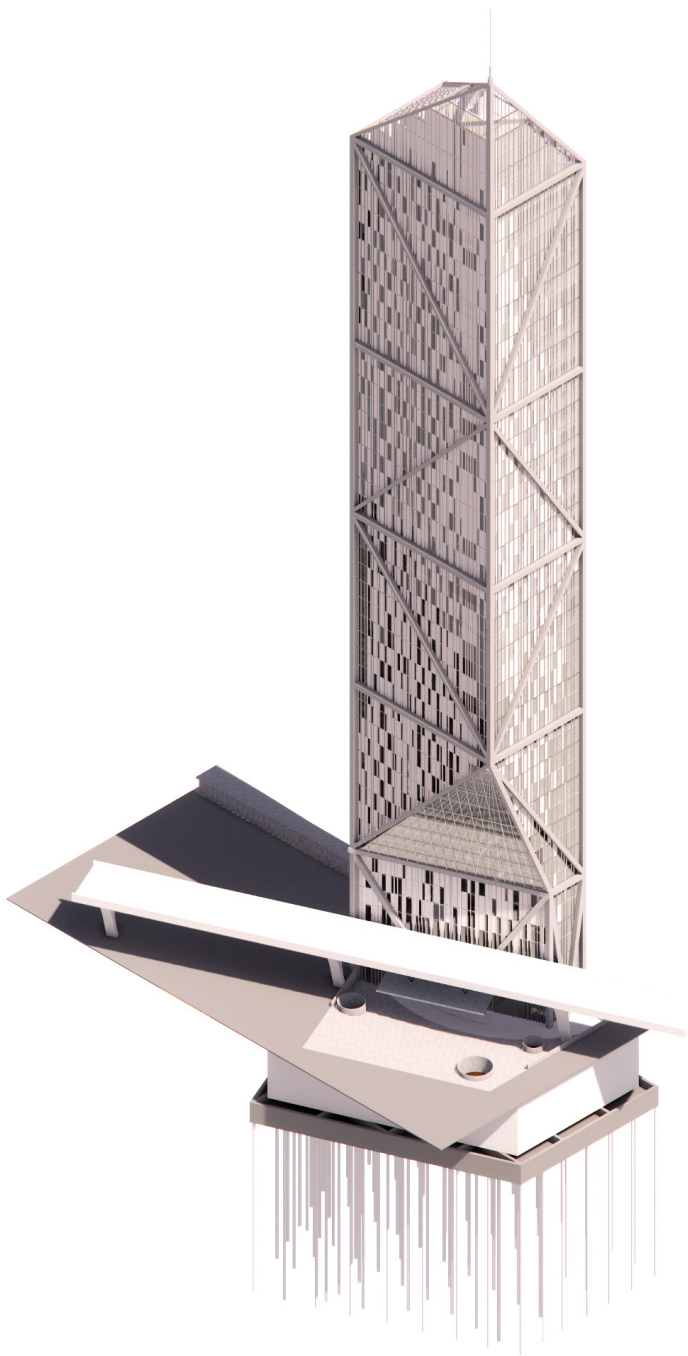
repeat steps for each section

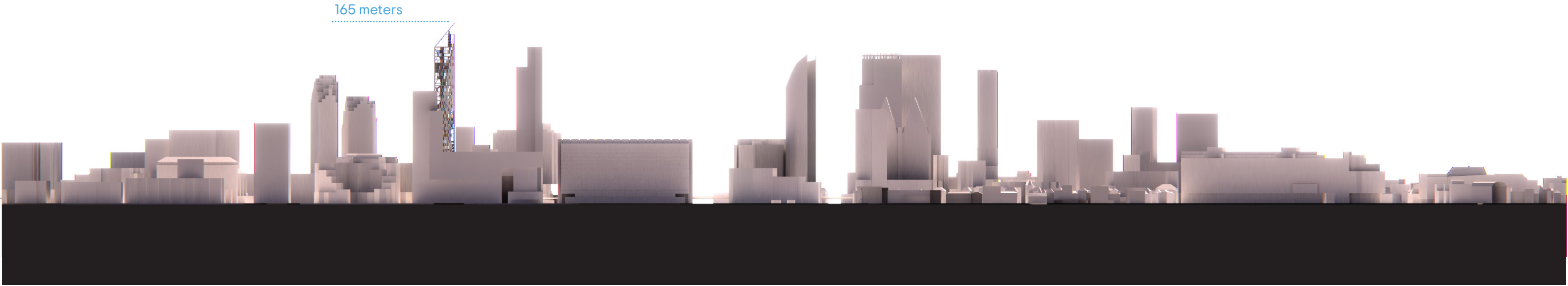
assembly full structure



repeat steps for each section

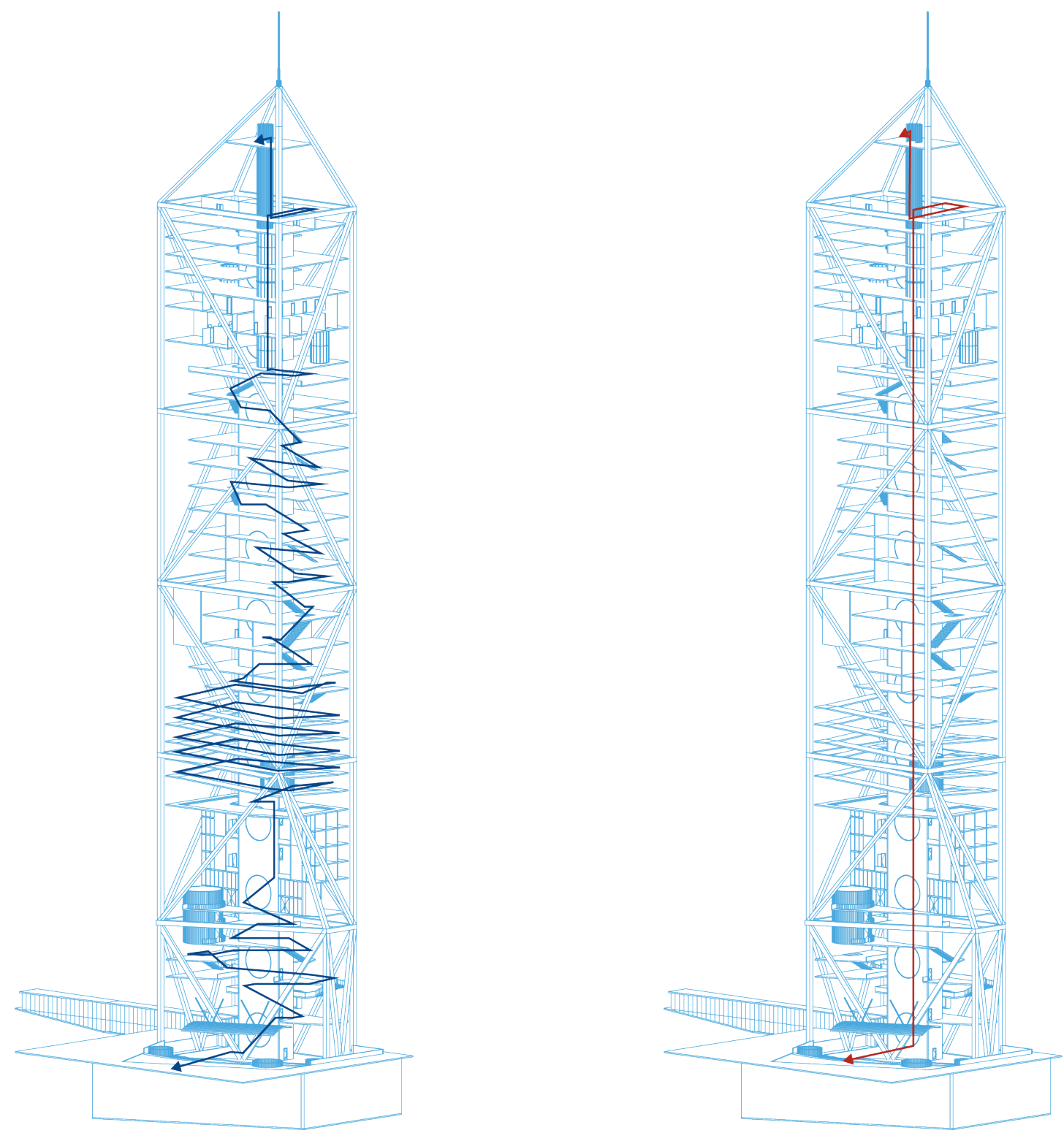
assembly full structure



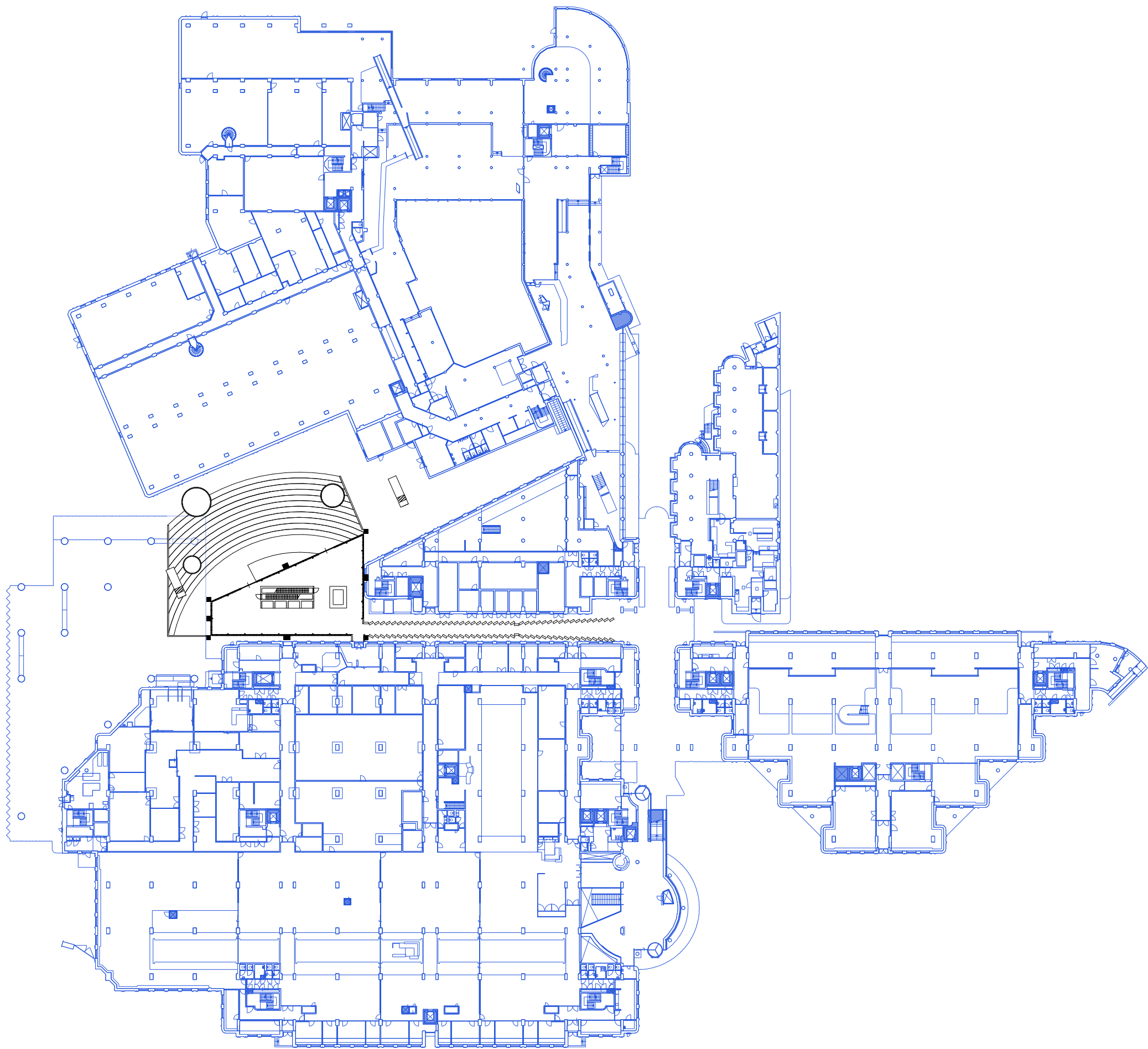


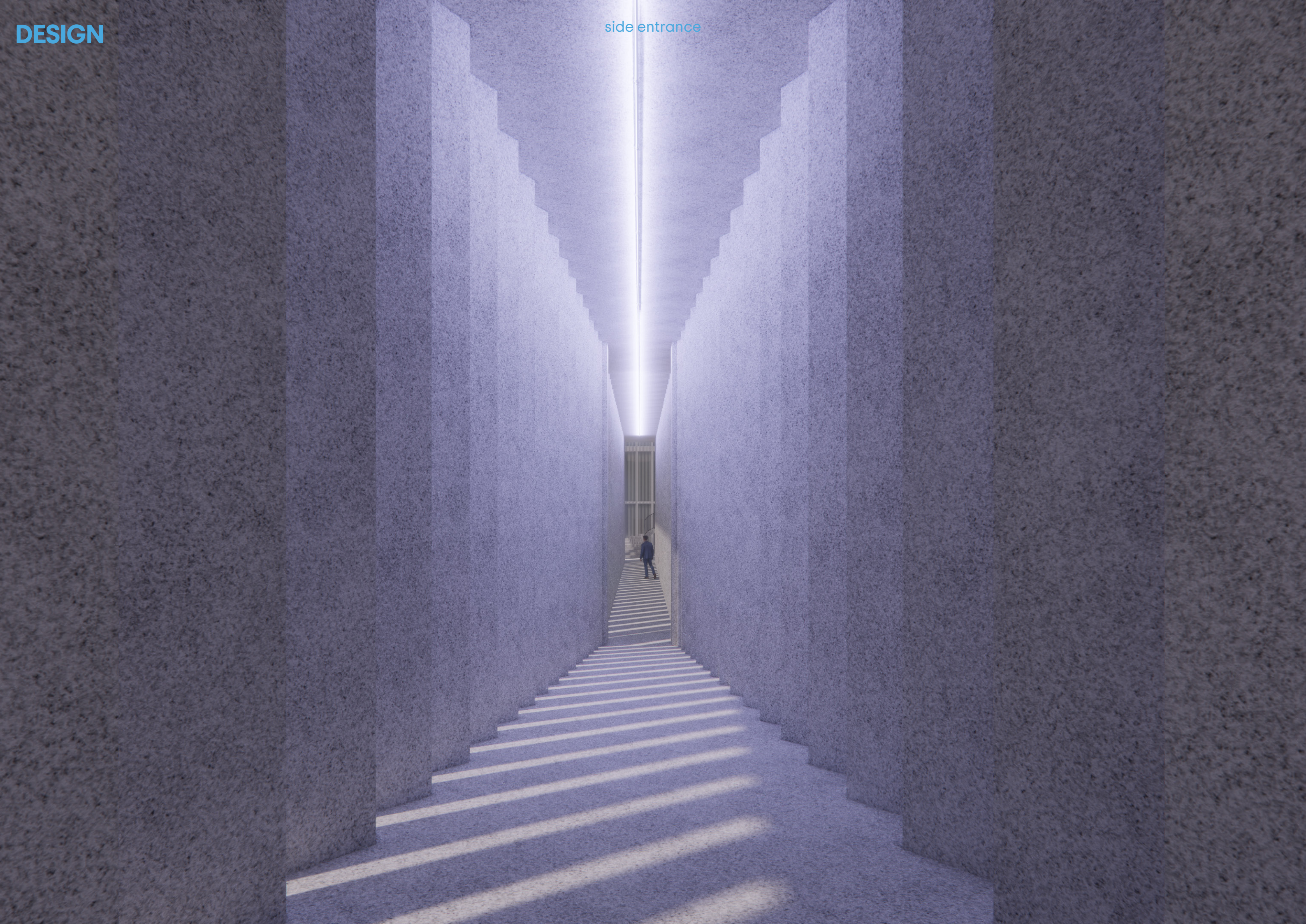
skyline view

walkthrough



the circulation design in the building transforms the journey through its diverse clusters into a continuous, immersive educational experience, embodying the essence of a xxi century wunderkammer

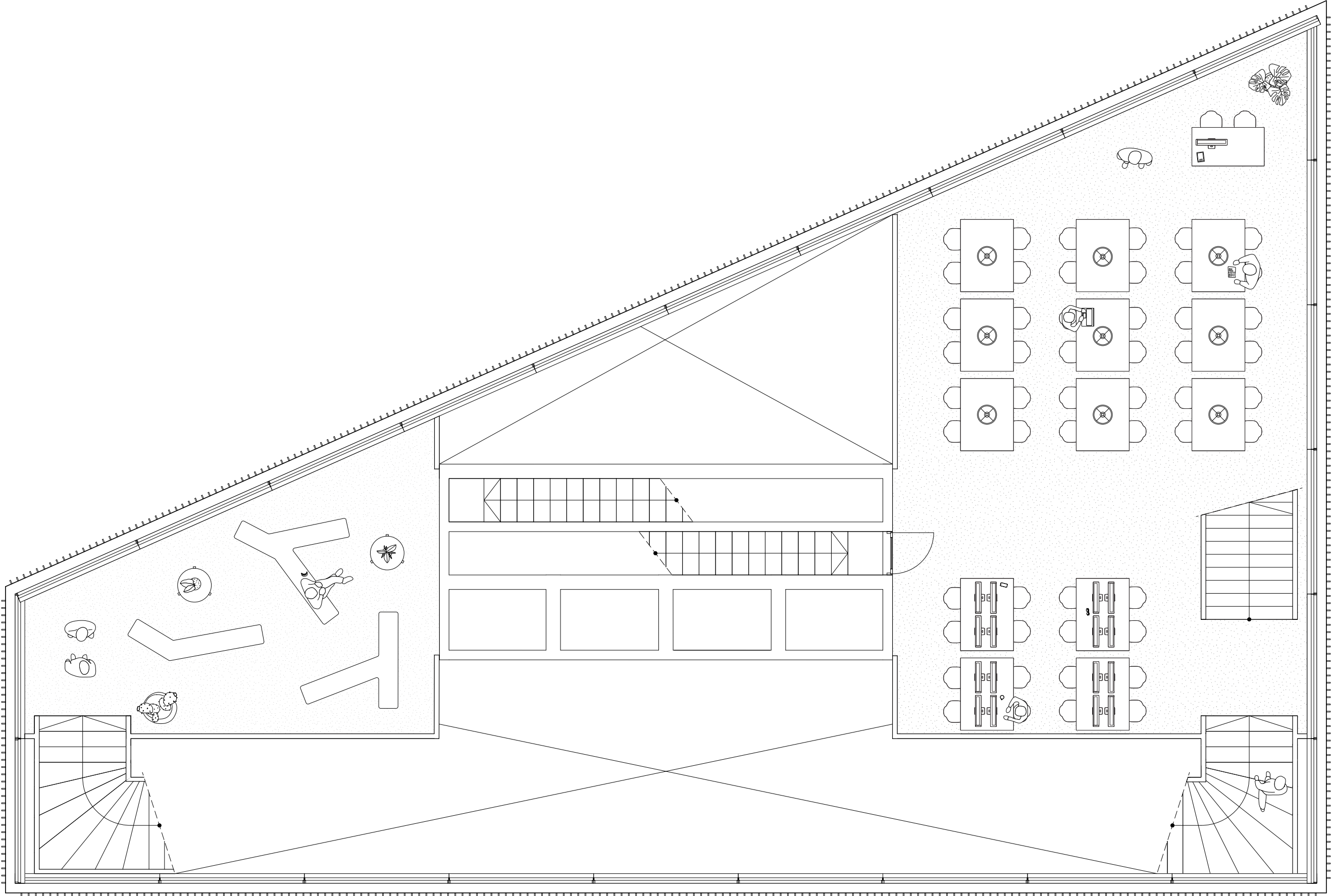


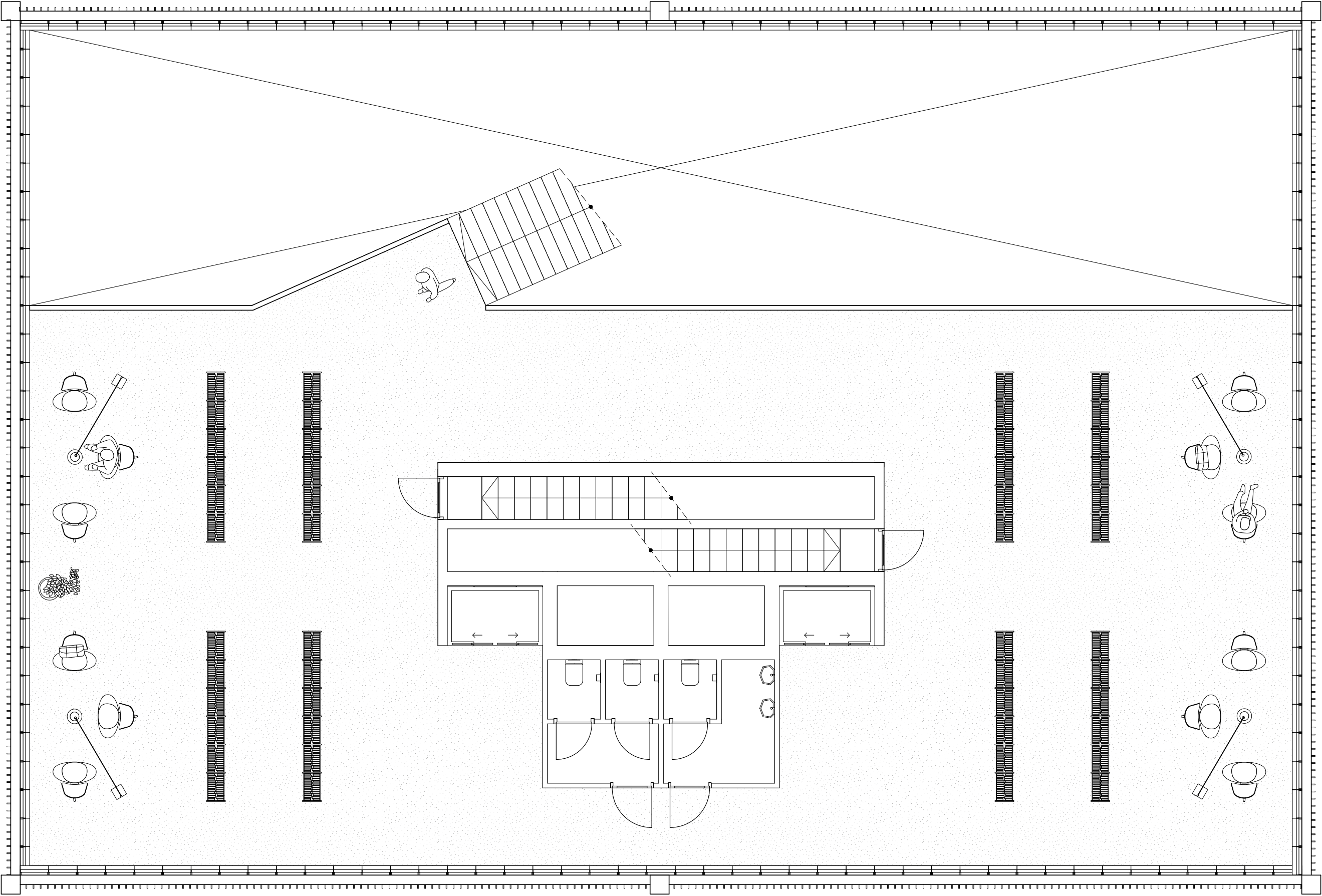




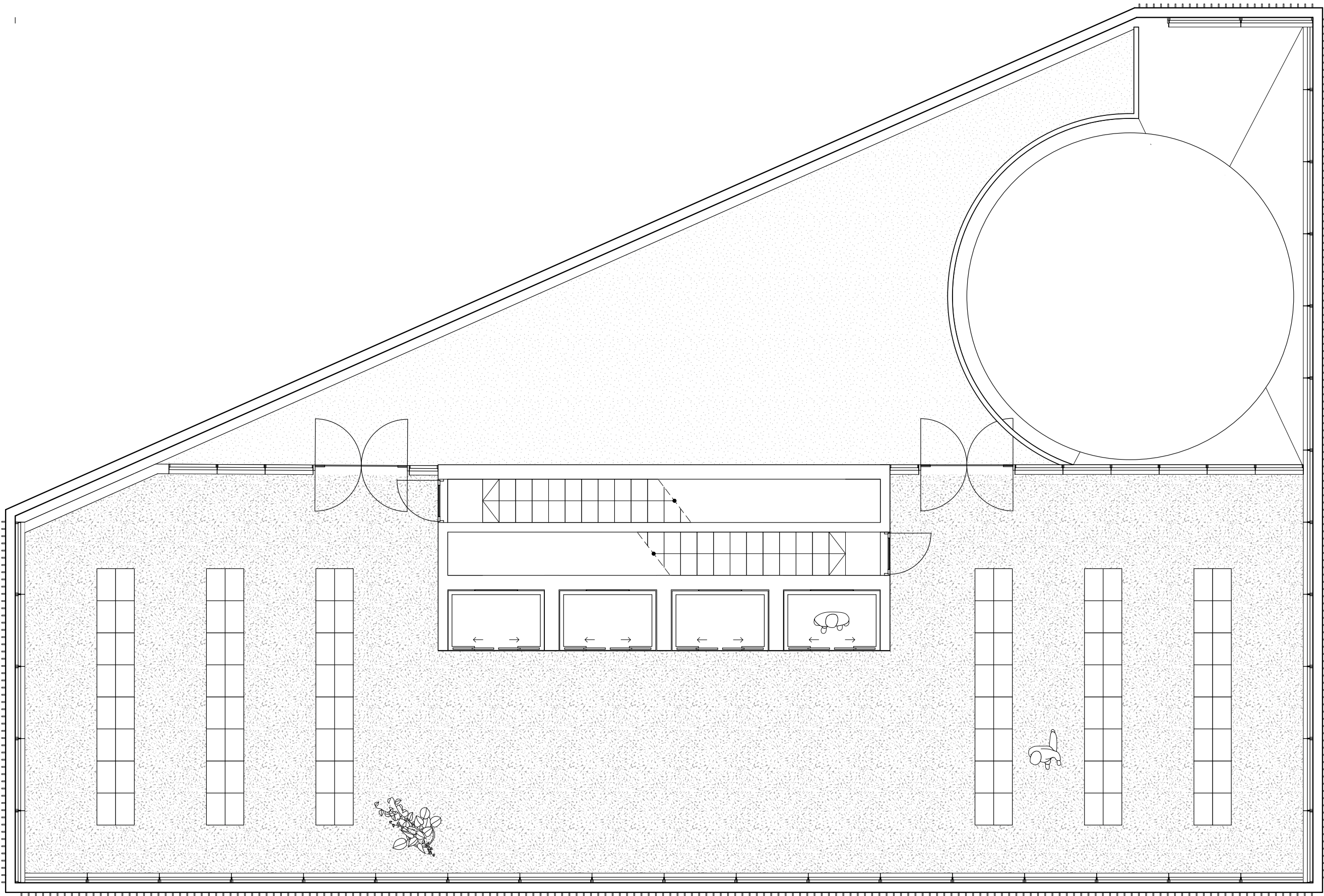


the gateway

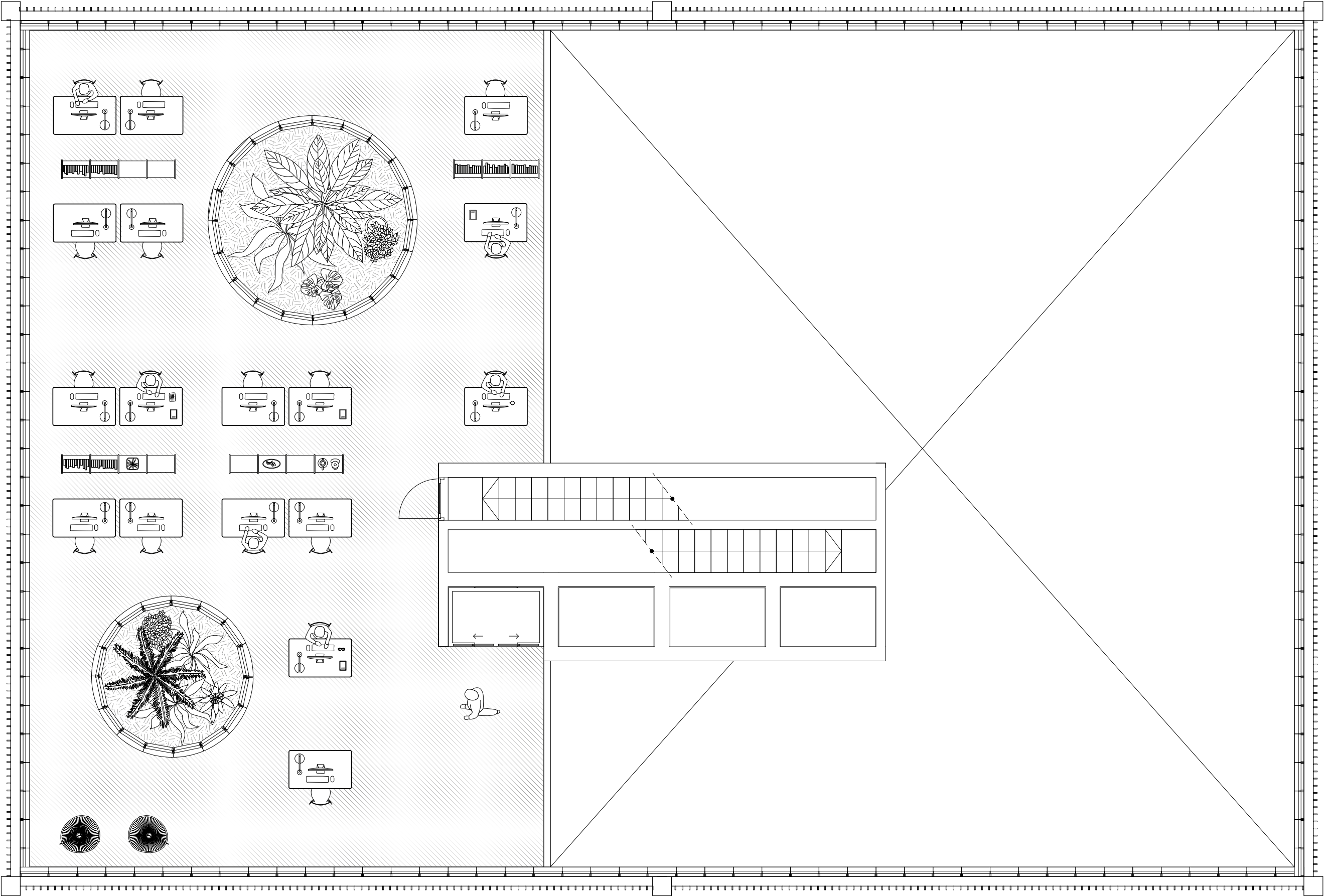




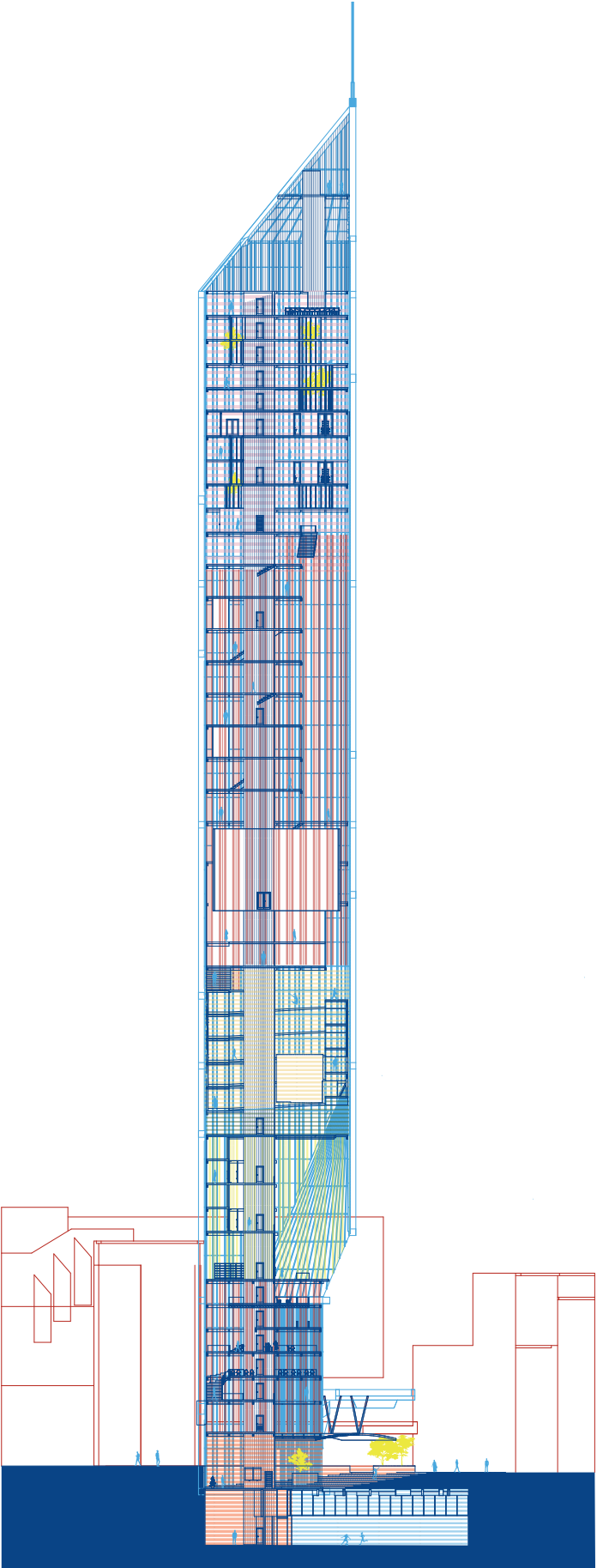
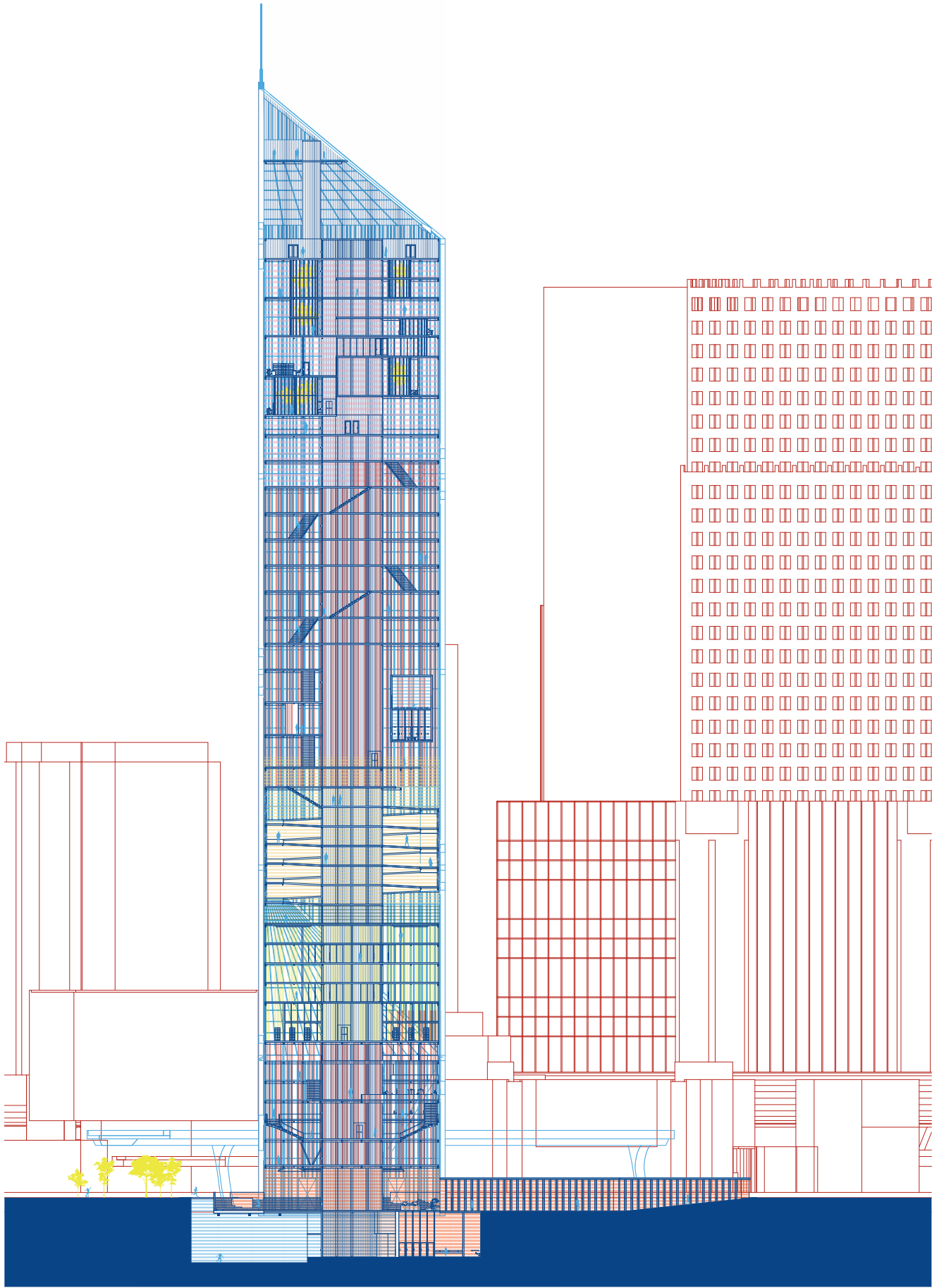


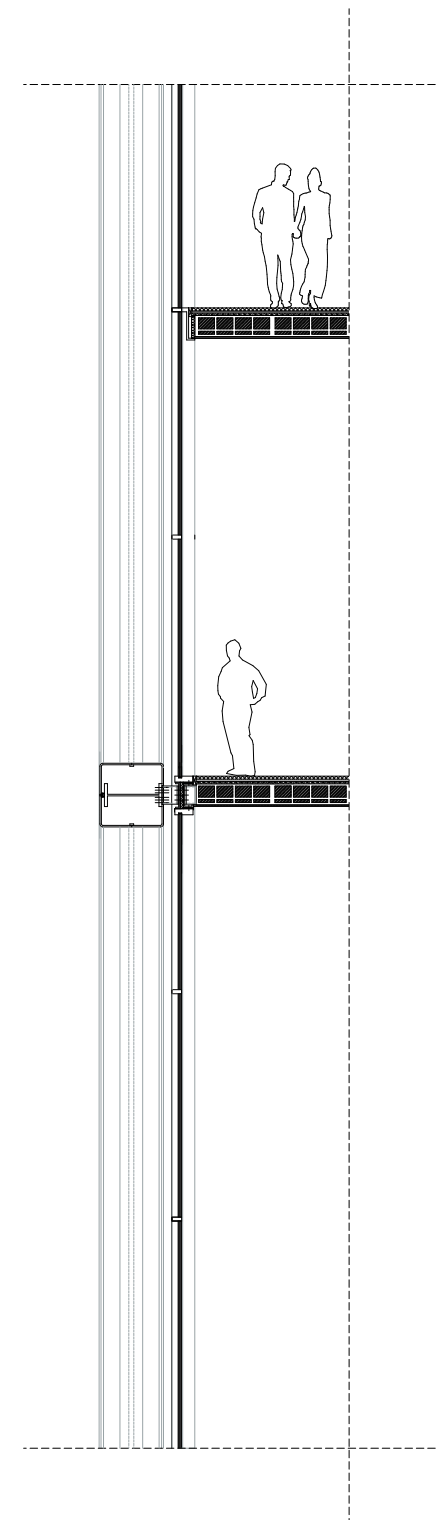


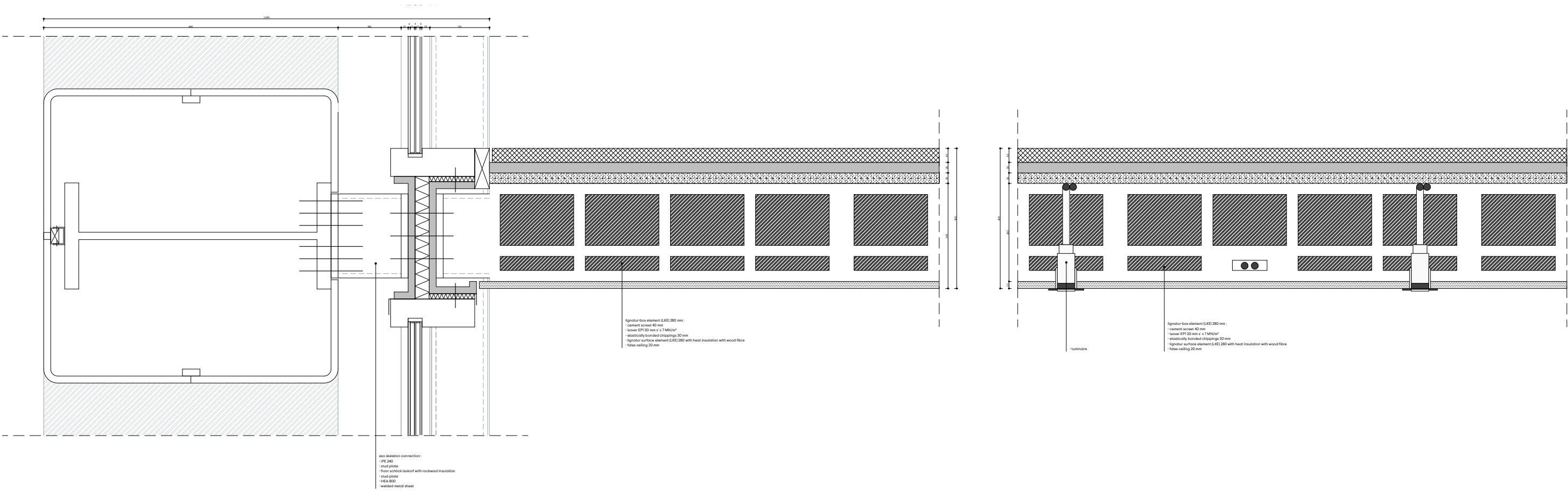














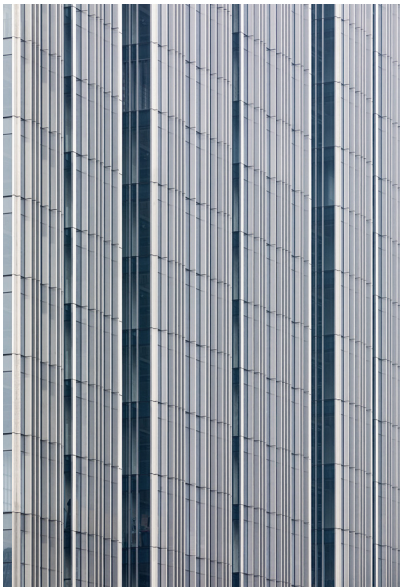
curtain wall - scheldebouw bv



pv panels - solarix



use of local suppliers to reduce the carbon footprint and faster access

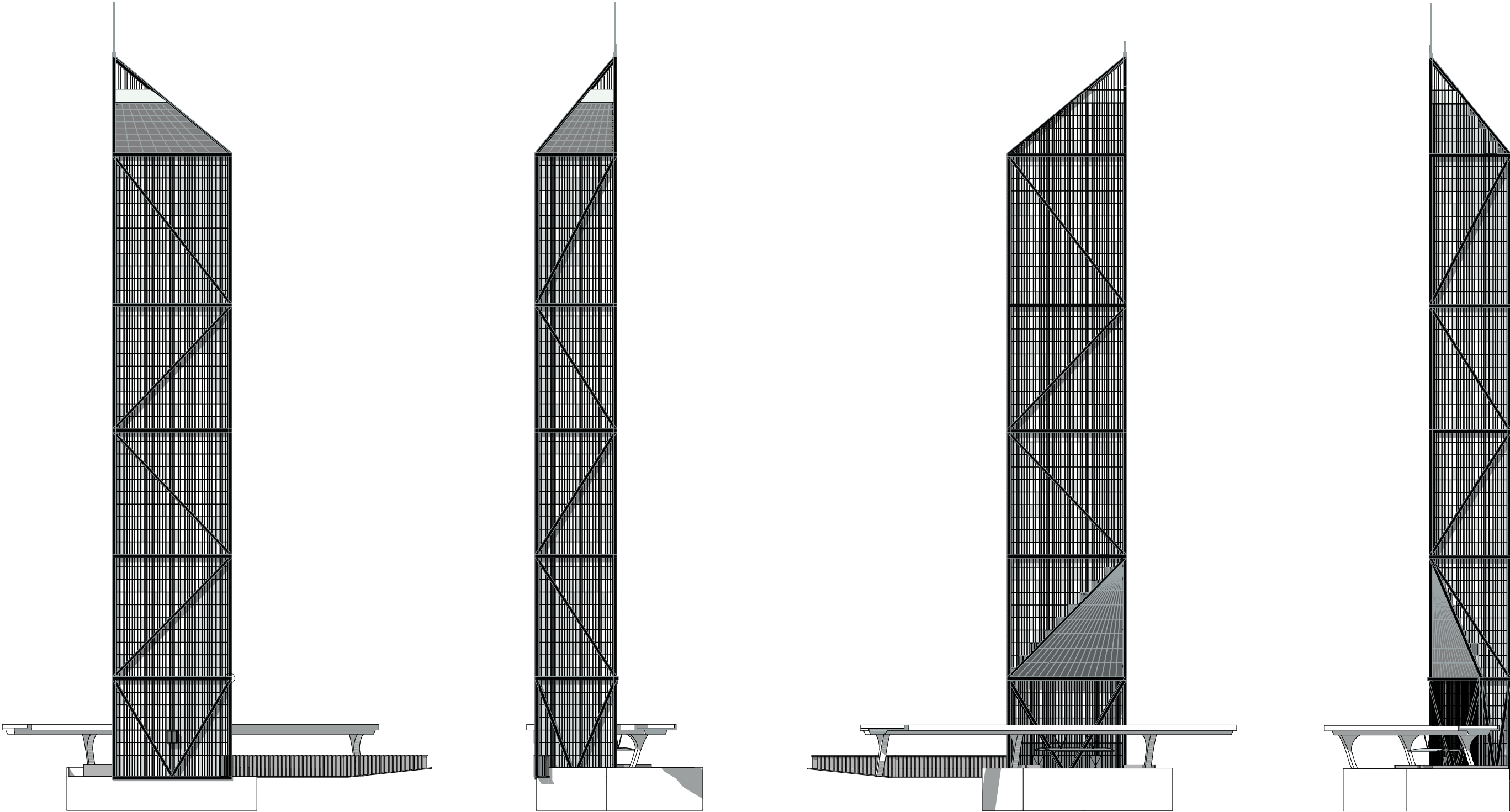


metal framing - scheldebouw bv

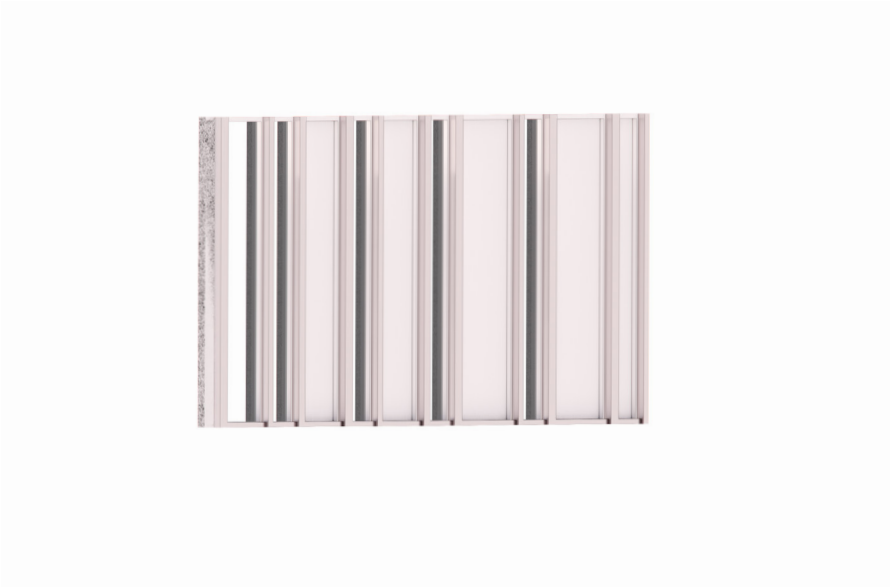
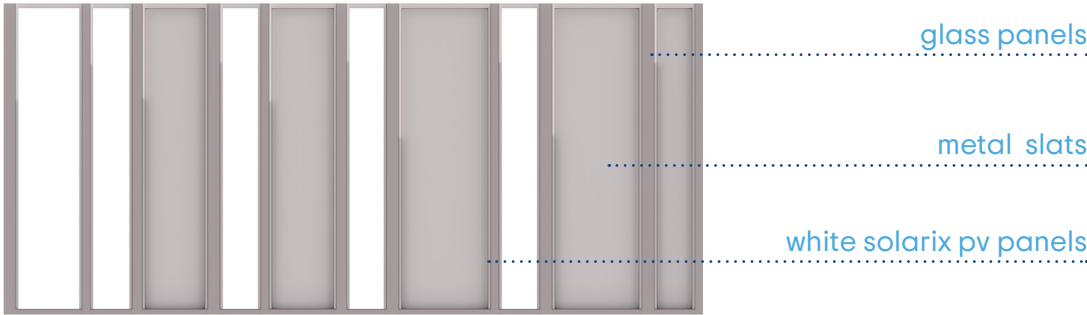
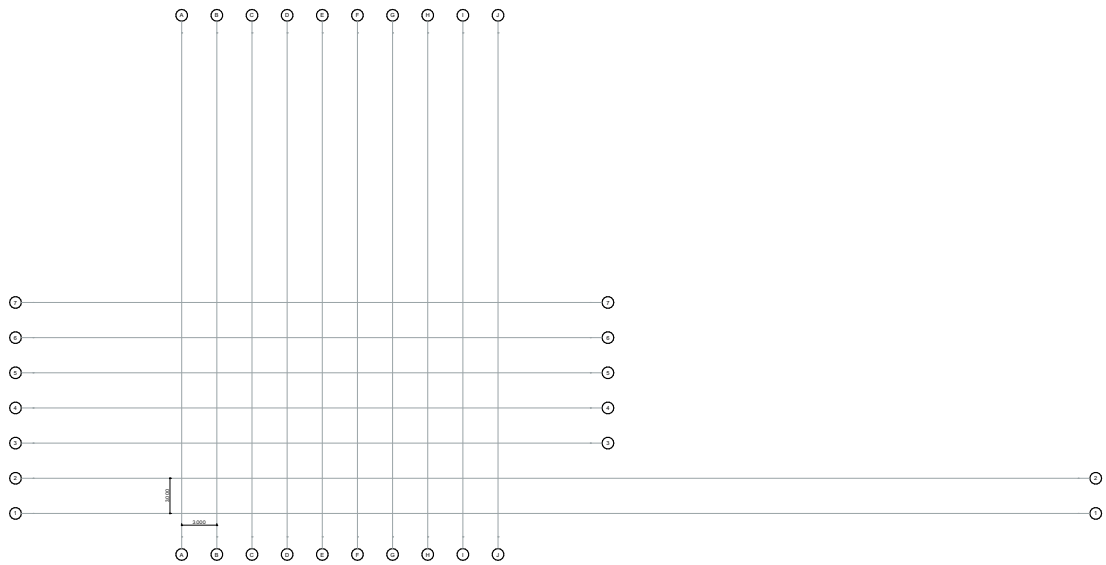


hollow core slab - lignatur bv





facade layout



3000 x 3000 grid

pre fabricated panels
6000 x 3000 mm

DATA

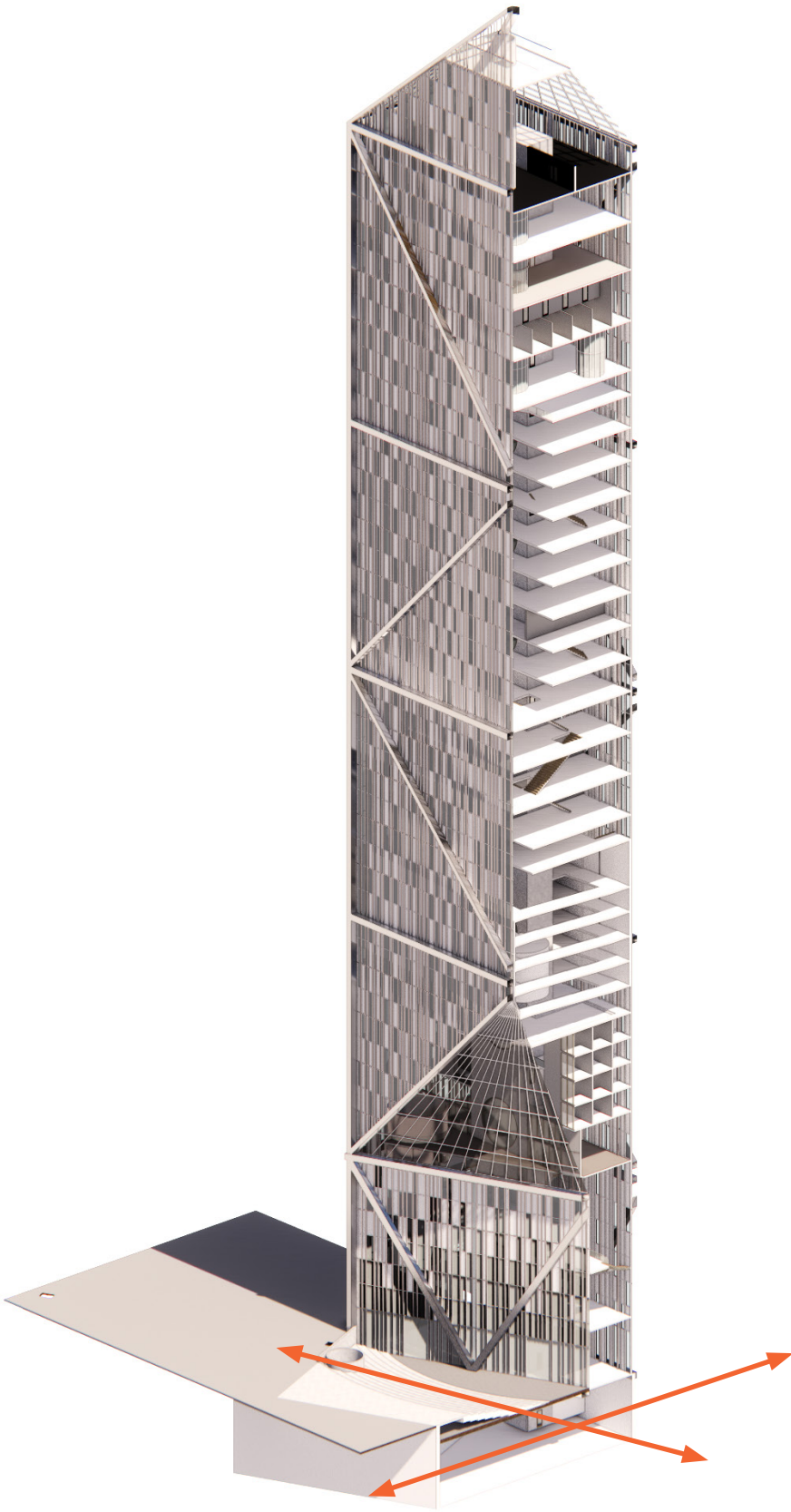
WUNDERKAMMER

HORIZONTAL BRIEF

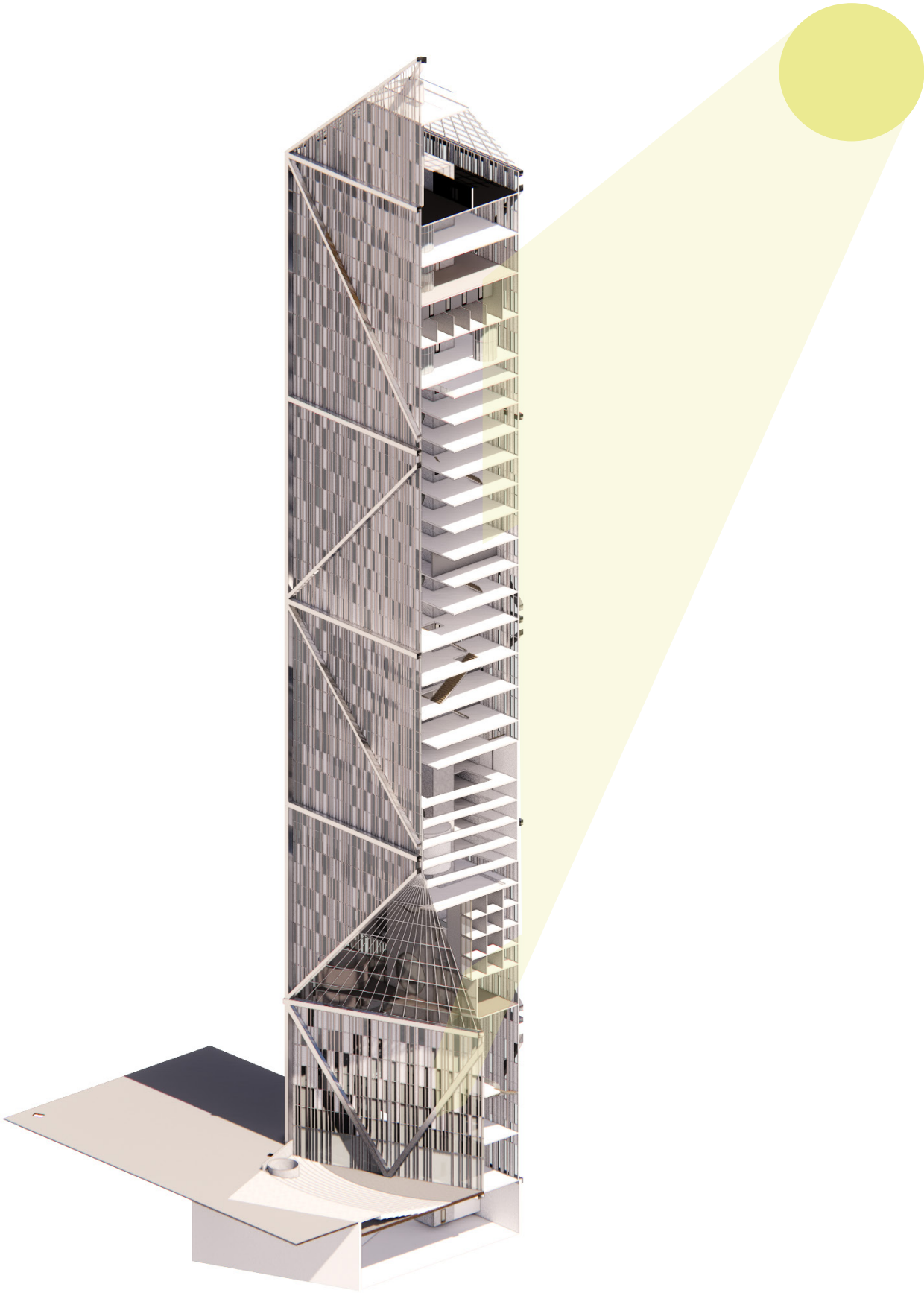
URBAN CONTEXT

DESIGN

SUSTAINABILITY

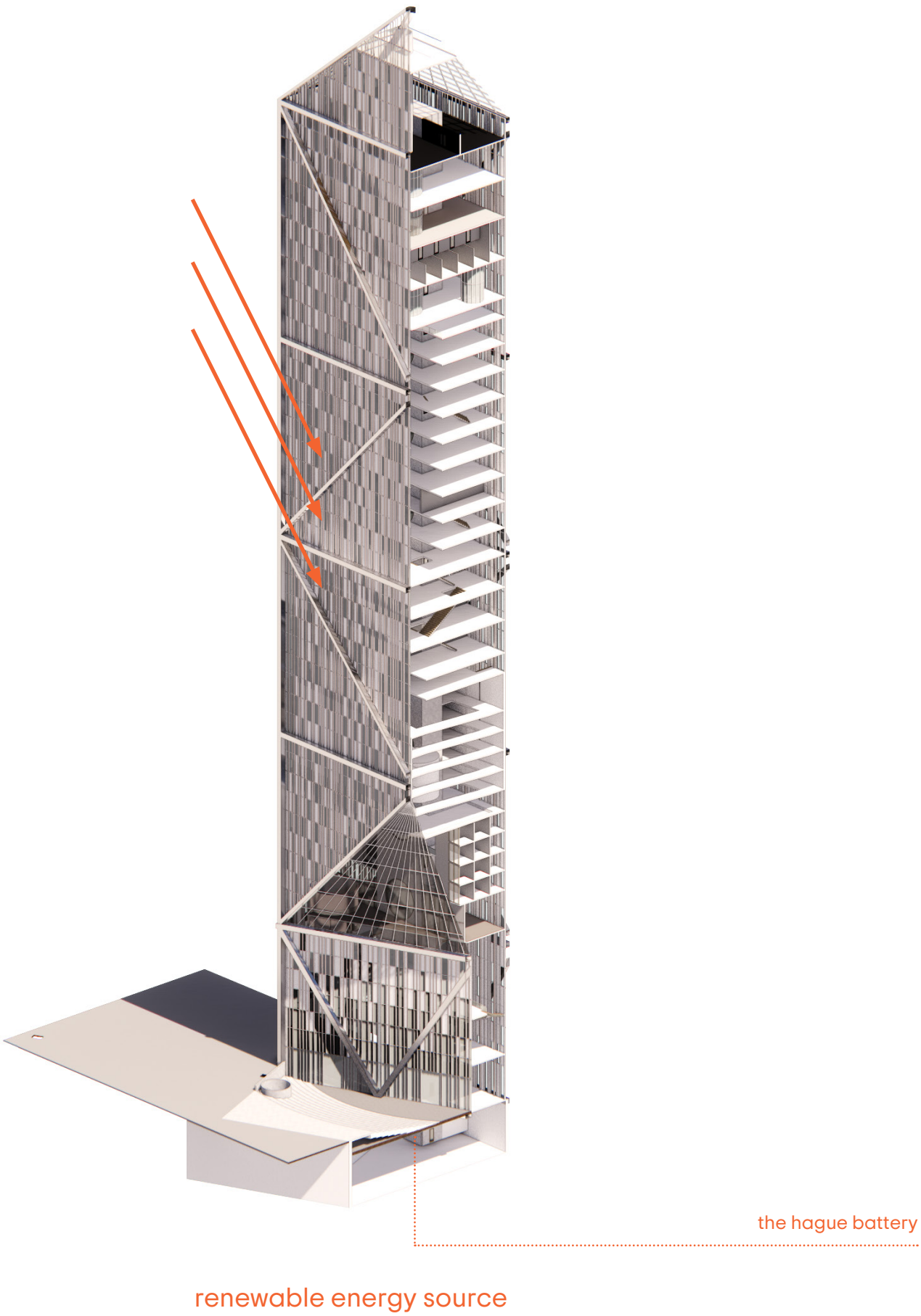


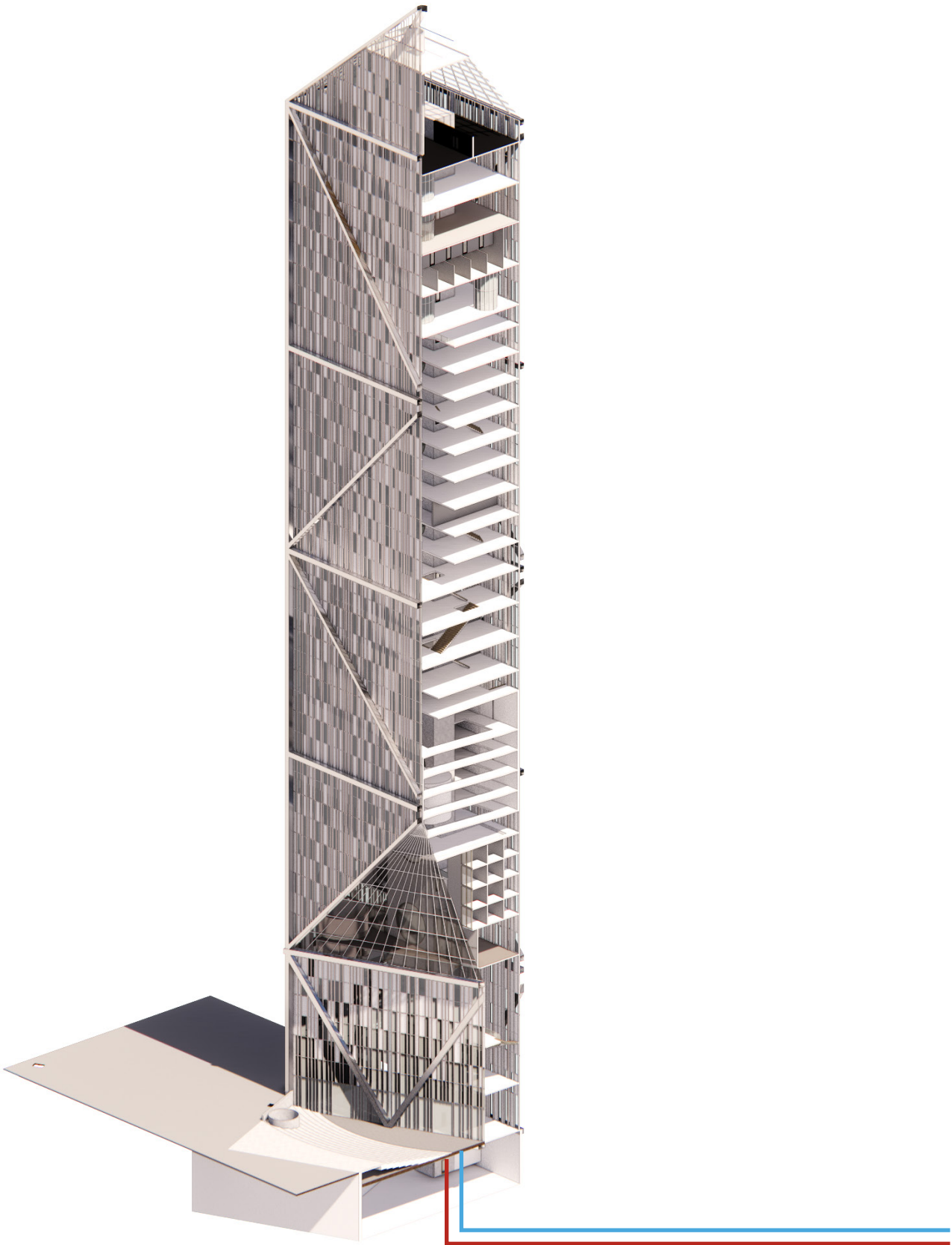
small footprint



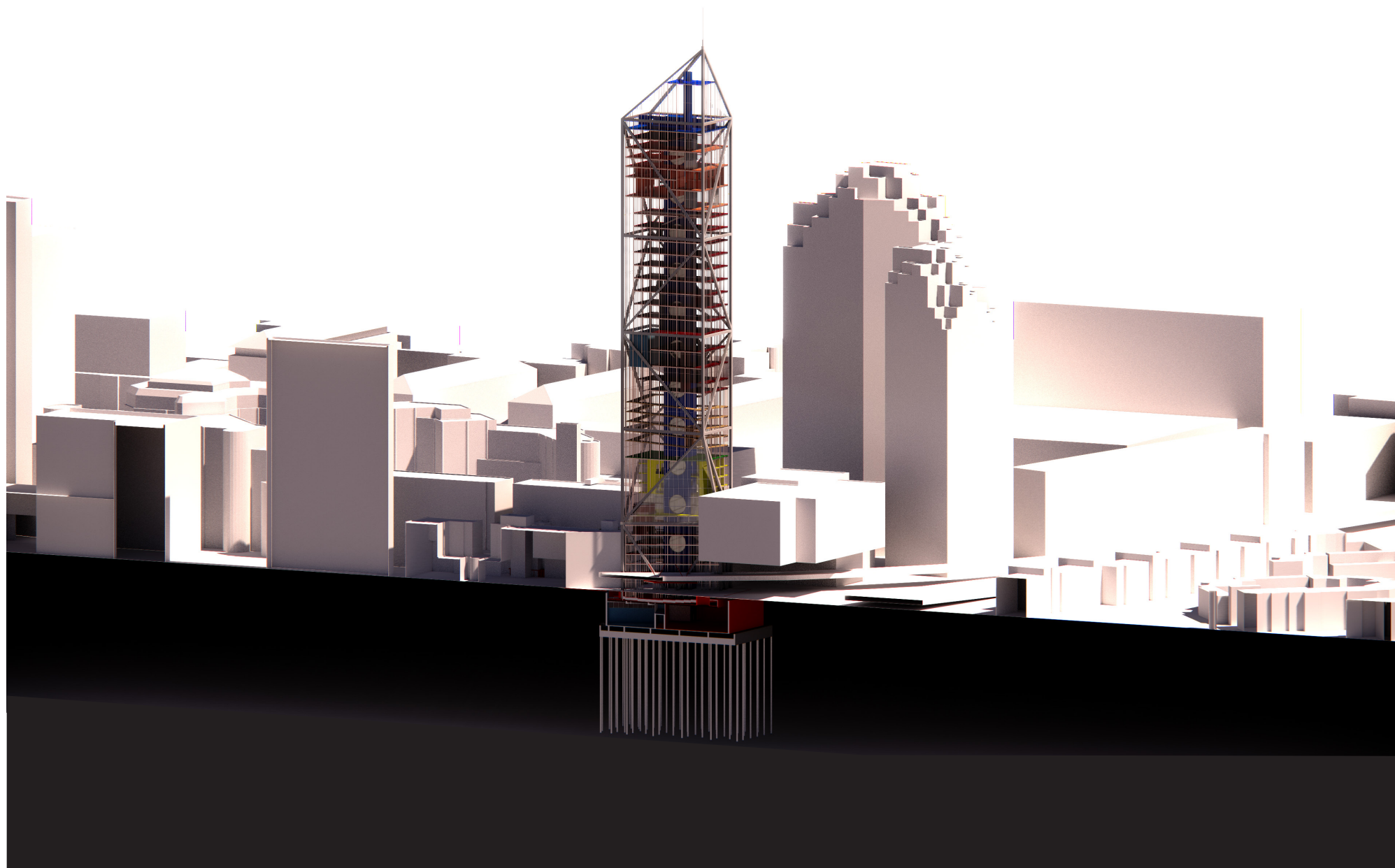
improved natural daylight

SUSTAINABILITY





ground source heatpumps



“just as a wunderkammer brings together diverse wonders
under one roof, the building unites people, ideas, and
innovations to create a sustainable future.”



XXI CENTURY WUNDERKAMMER

P5 PUBLIC BUILDING
AR3AP100: THE VERTICAL CAMPUS