

Tamara Schütte
M. Sc. Architecture



PORTFOLIO.

Curriculum Vitae

PERSONAL DATA

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EDUCATION

from 2020 to 2023
Karlsruhe Institute of Technology
Master of Science Architecture

from 2016 to 2019
Karlsruhe Institute of Technology
Bachelor of Science Architecture

LANGUAGES

German *mother tongue*

English *fluent*

French *advanced*

Spanish *basic*

SKILLS

Revit ●●●●●

SketchUp ●●●●●

Rhino ●●●○○

Vectorworks ●●●●●

ArchiCAD ●●●●○

Photoshop ●●●●○

InDesign ●●●●○

Avanti ●●●○○

Enscape ●●●●●

EXPERIENCE

Architectural Assistant Part 2 (May 24 to Present)

Pascall + Watson Ltd, London
RIBA stages 1 to 5, focus on aviation projects in the Middle East and the UK

Architectural Assistant (Nov 19 to Mar 24)

Schick GmbH Architects and Engineers, Karlsruhe
RIBA stages 1 to 5, focus on sports and swimming facilities within Germany

3D Visualiser (Jul 18 to Oct 19)

Enscape GmbH, Karlsruhe
creation and visualisation of CAD models in order to promote the real-time rendering engine Enscape

Projects

UNIVERSITY

Renewable³ 04
design for Solar Decathlon Europe 21/22

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planning with existing structures

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urban planning

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nonresidential building

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residential building

OFFICE

Sports Centre Oberkochen 32
technical design and visualisations

Swim Centre Pforzheim 36
competition design

Renewable³

Upper Extension of the Café Ada Wuppertal

Design for Solar Decathlon Europe 21/22, SS 2020

Institute for Sustainable Construction, Prof. Hebel



The Solar Decathlon Europe is an international student competition focusing on sustainable and energy-efficient construction. The competition took place in Wuppertal in 2022. Our university qualified to participate and was awarded the first prize.

My design deals with an extension of the existing Café Ada, a lively scene and dance venue. A public ‚fugue‘ on the second floor mediates between the existing and the new. Co-working spaces are offered here, enriching Café Ada with a further function as a multicultural meeting space in the neighbourhood. The façade consists of a patchwork of stock windows, above which are micro-apartments with a variety of layouts for different lifestyles. A communal area in the building’s atrium, with kitchen and lounge facilities, serves as a meeting point and distribution centre. The modular timber construction allows for a short construction period and keeps the weight of the extension low. The entire extension rests on the

exterior walls of the existing building, as the existing steel columns couldn’t support the additional load. To bridge the distance, 6 metre high trusses span the entire length. The façade is clad in Corten steel and the overall design is in keeping with the town’s industrial past. The unmixed construction allows the extension to be dismantled and recycled at the end of its life.

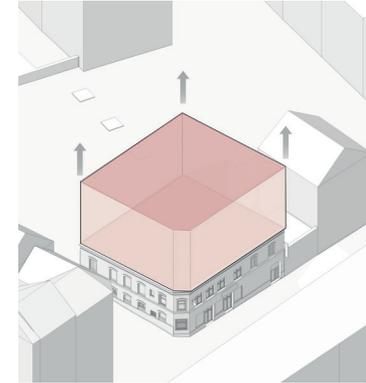
The design was further developed for participation in the SDE and built 1:1 in a smaller ‚House Demonstration Unit‘, in which I was involved in construction planning one further semester. The unit was exhibited on the campus in Wuppertal for three months for visitors to explore.



exterior rendering

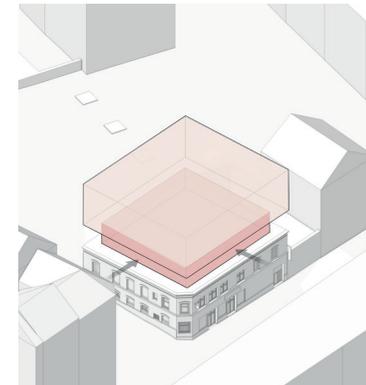


site plan



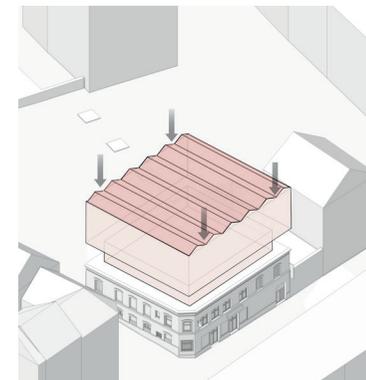
1

The existing building will be extended by three storeys to fit into the existing context.



2

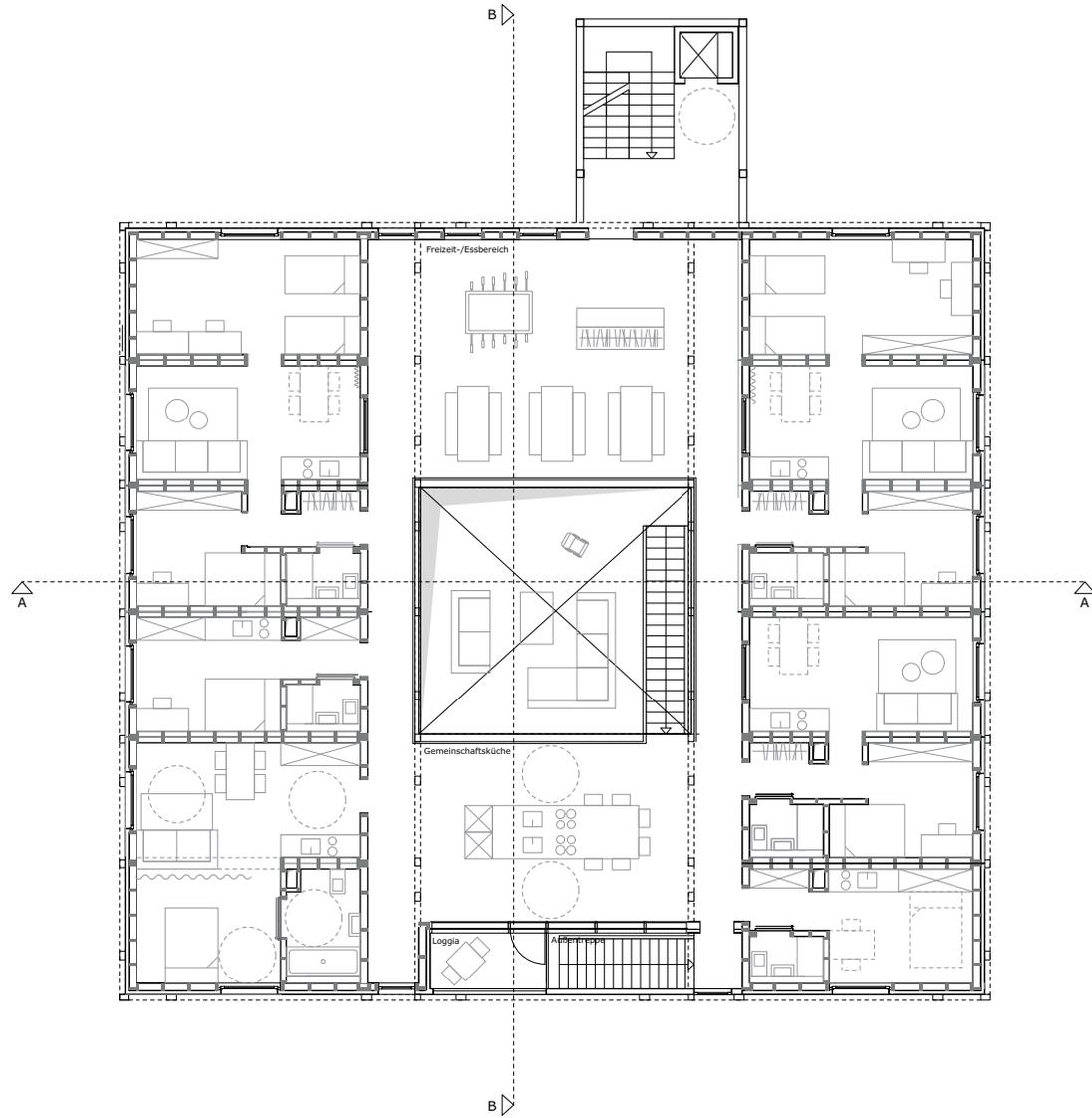
The inter-floor is set back and serves as a mediator between the new and the existing.



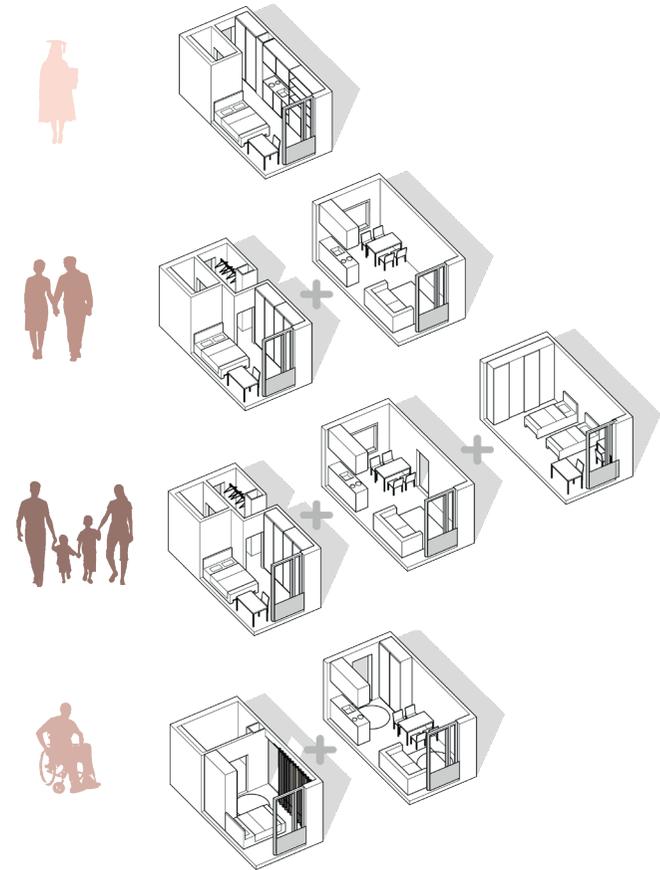
3

The roof area is orientated east-west in order to maximise solar gains.

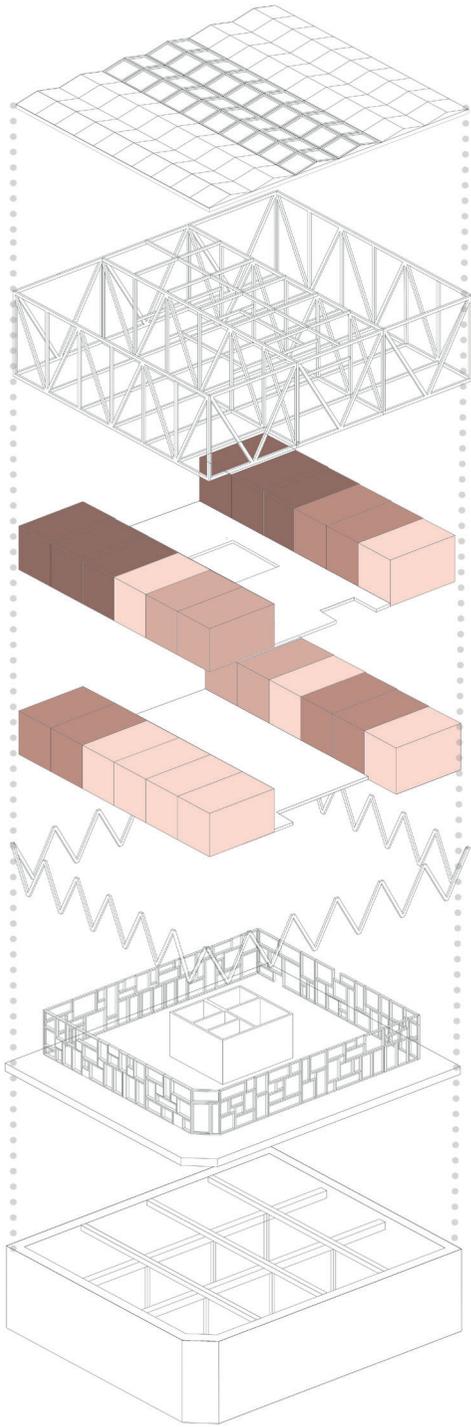
concept sketches



floor plan fifth floor

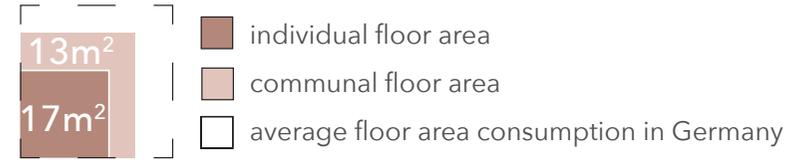
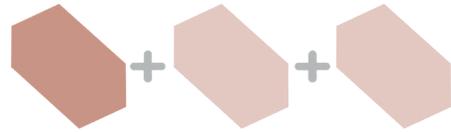


typologies

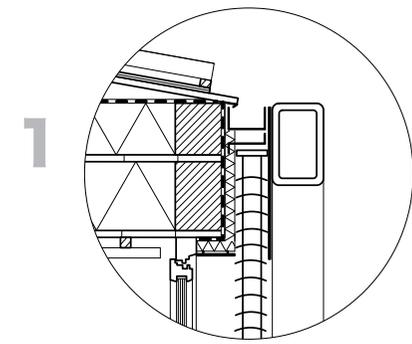


structure axonometry

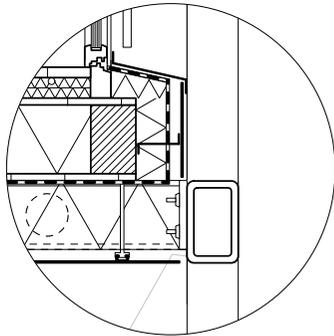
modular construction:
installation module + additional modules



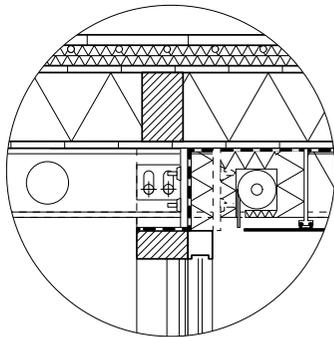
interior rendering communal area



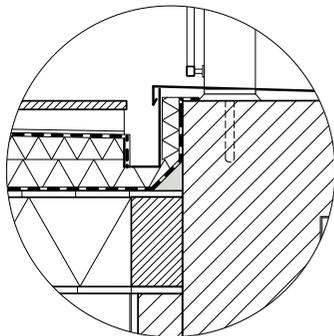
1



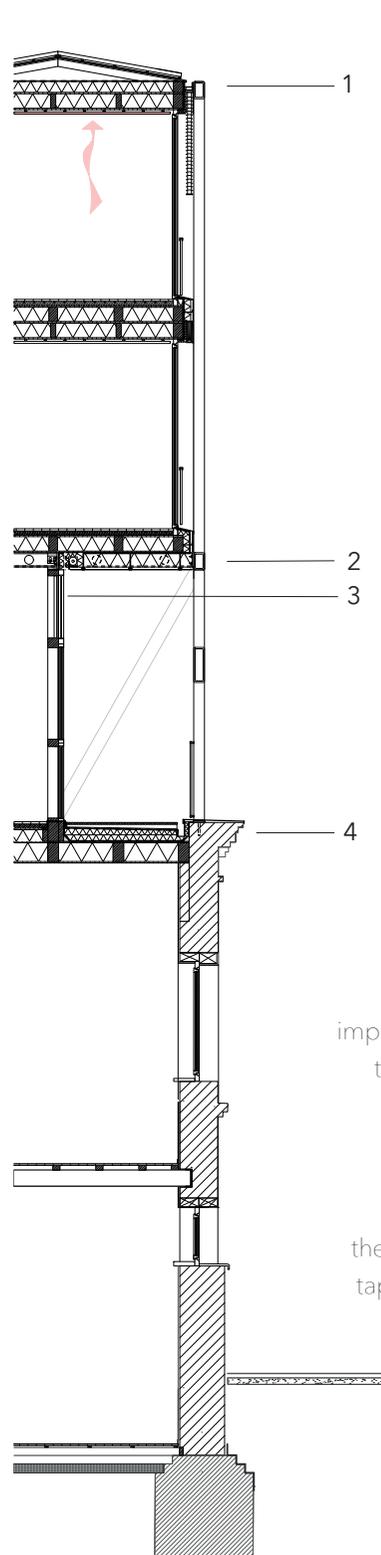
2



3



4



Roof

monocrystalline solar module 50mm
 titanium sheet 1.5mm
 structural timber 100mm
 plant based roofing membrane 3mm
 wood fibre board, lignocellulosic 150mm

Exterior Wall

corten steel panel 1.5mm
 laminated safety glass rail 20 mm
 aluminium window with triple glazing and
 aluminium clamp profile

Module Ceiling

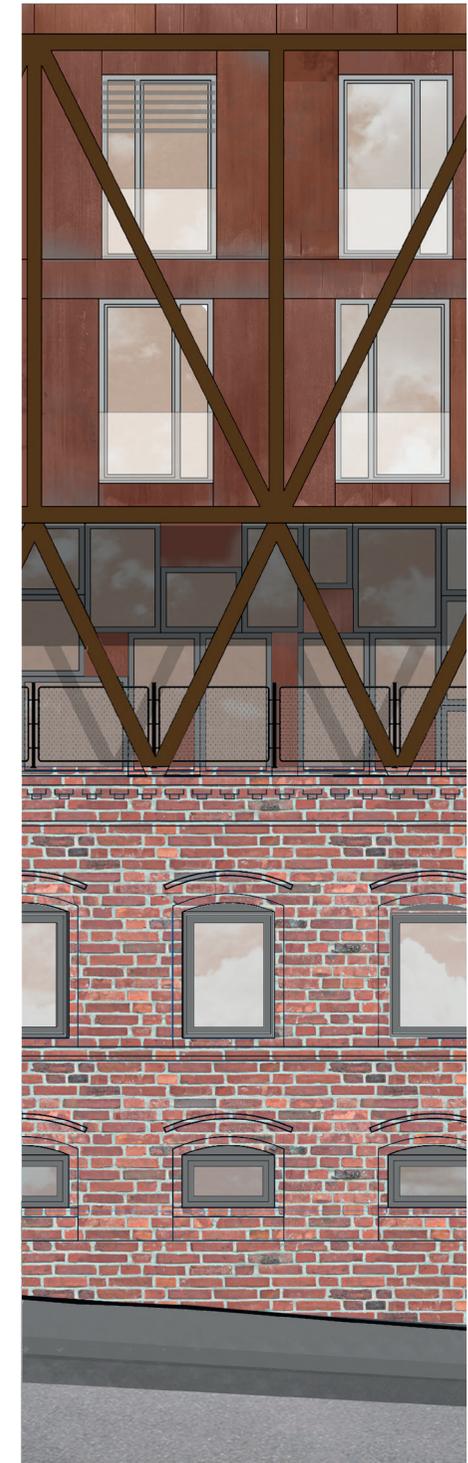
acoustic fleece 2mm
 timber frame ceiling (insulated with wood fibre
 board) 20mm
 lathing for installation layer 30mm
 Alba®balance PCM board 20mm
 lime render 15mm

Module Floor

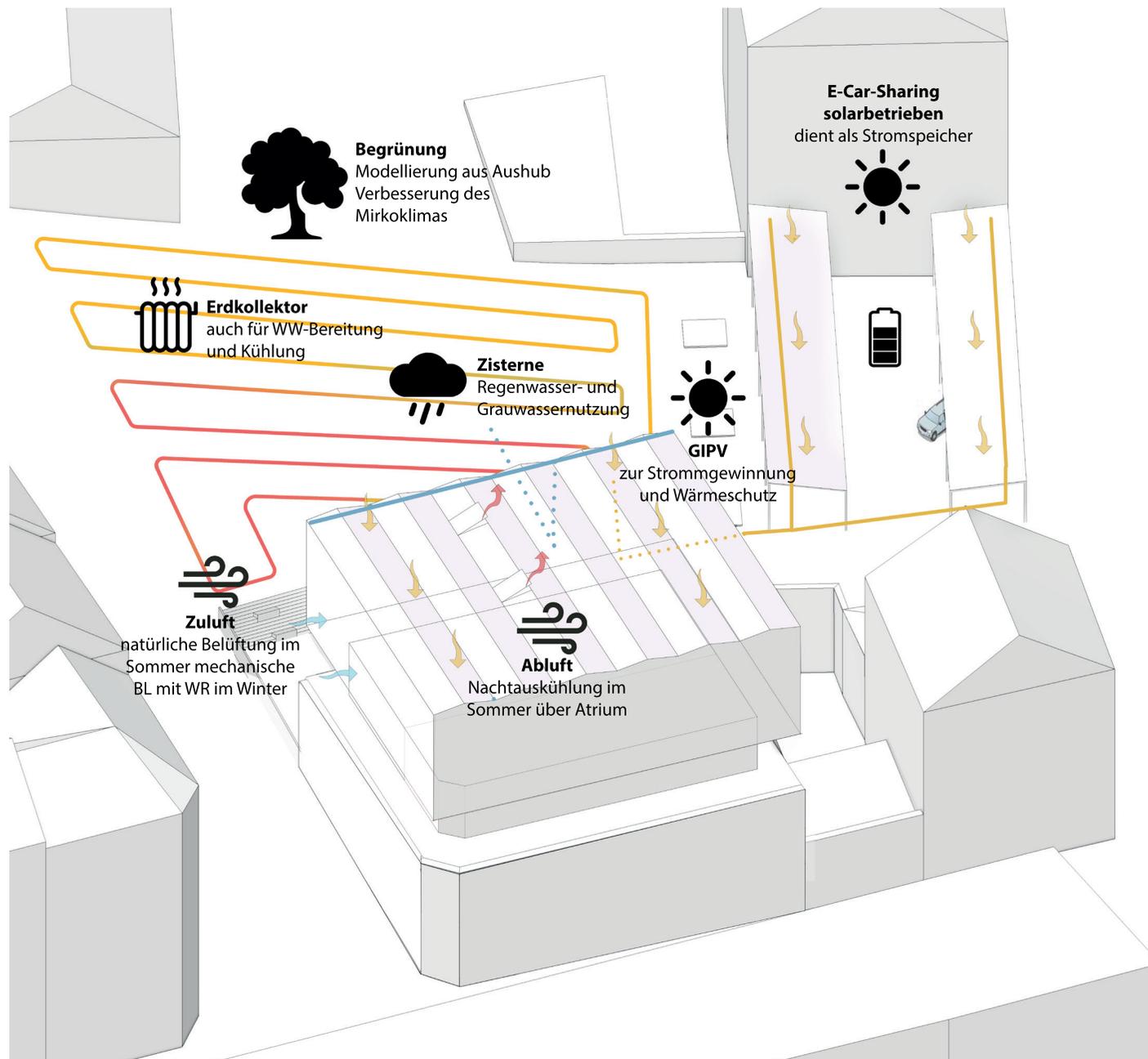
recycled parquet 30mm
 underfloor heating system board 30mm
 impact sound insulation (wood fibre board) 30mm
 timber frame ceiling (insulated with wood fibre
 board) 20mm

Floor Roof Terrace

thermally treated wooden planks, screwed 30mm
 tapered wooden dowel, untreated 35-70/60 mm
 reed insulation 150mm
 PE-LD vapour barrier, tacked overlapping



façade section



energy concept

A Home For The City

Renovation and Extension of the Town Hall Ludwigshafen am Rhein

Master Thesis, SS 2023

Institute of Design and Structural Engineering, Prof. Wappner

The Rathaus-Center in Ludwigshafen am Rhein was completed in 1979 and has served as the city's administrative centre ever since. The hybrid building houses a shopping centre at the base and parking levels on the adjacent upper floors, which are directly connected to the elevated highway. The office tower with the city administration offices rises above it. As the highway is now in a dilapidated state and has to be demolished, the city discussed for a long time how to deal with the closely interwoven Rathaus-Center: keep it or demolish it? In the end, the decision was made to demolish the Rathaus-Center.

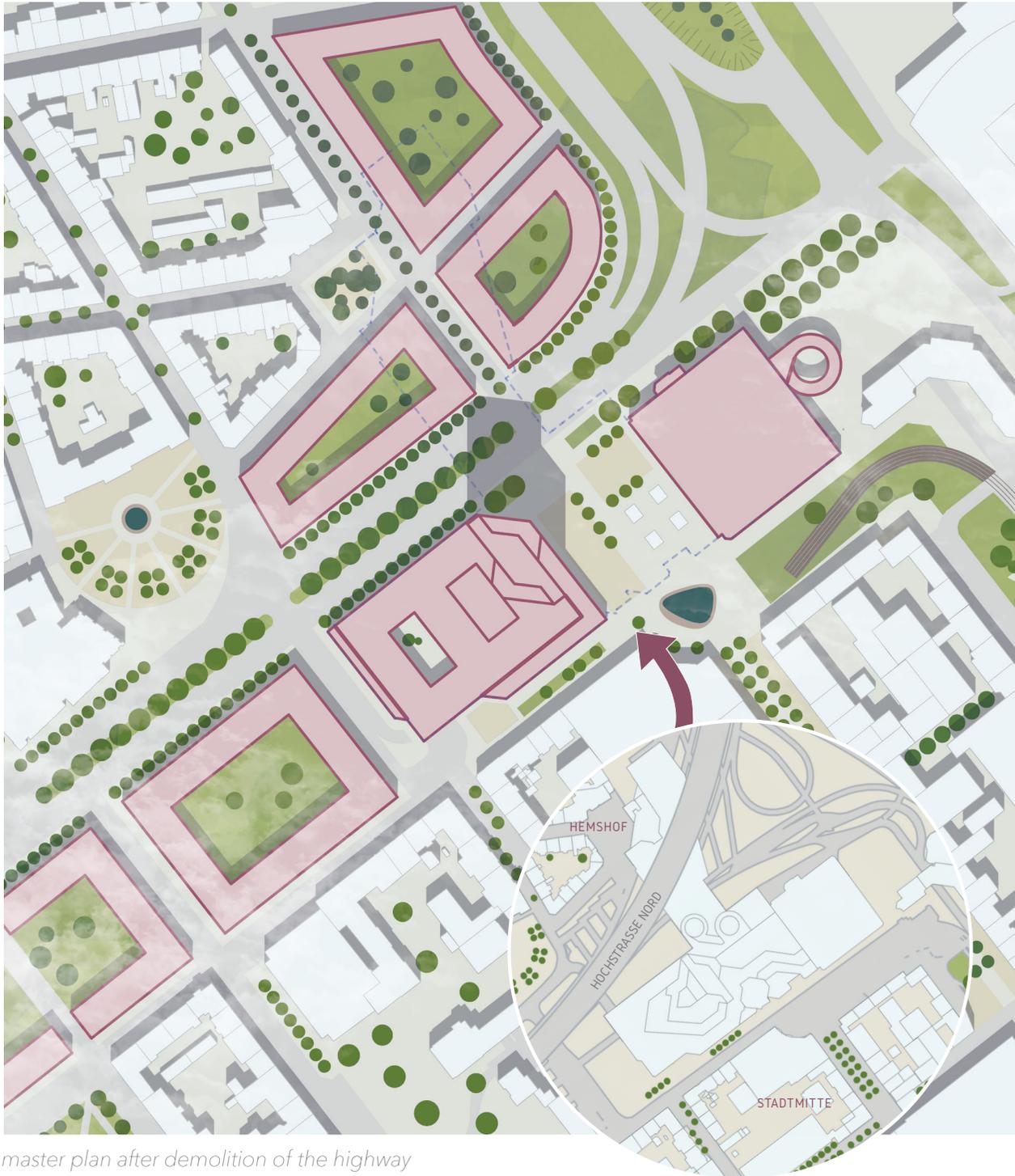
This work intends to present a counter-design that plays out the scenario of the Rathaus-Center remaining. There are numerous reasons for considering this: The building is not only an important landmark of the city and a witness of its time; the renovation and mo-

dernisation of the existing building is also more sustainable than a new construction.

The new office space for the city administration is characterised by a high degree of transparency. A green atrium serves as a platform for recreation and exchange, around which the council's conference and training rooms are arranged. The floors above contain open-plan offices. In order to create a family-friendly working environment, a childcare facility for employees is located in the inner courtyard. The staff canteen is connected to a spacious roof terrace that faces the city centre. The roof areas of the tower are also developed into accessible roof terraces. A two-storey recreation room, which is connected to each terrace, opens up to the city space in all orientations.

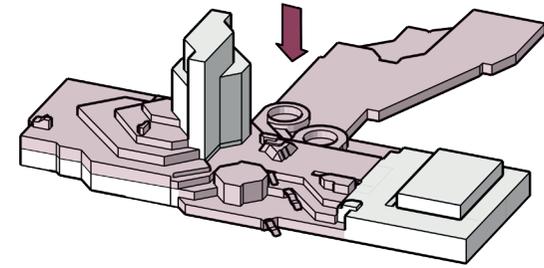


exterior rendering entrance façade



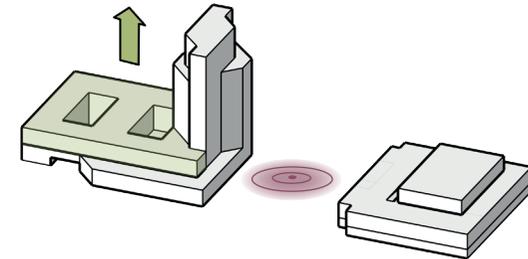
master plan after demolition of the highway

Phase I: Demolition



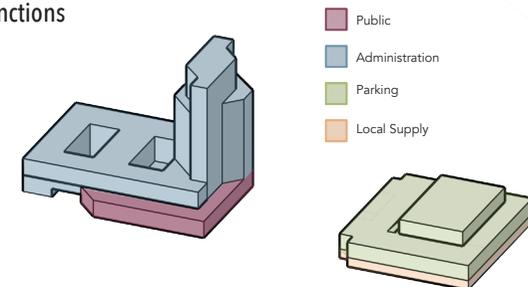
The complex will be divided into two smaller volumes, which will fit in better with the surroundings. The parking floors attached to the former highway will be demolished as they are not suitable for reuse due to their low ceiling height.

Phase II: Extension

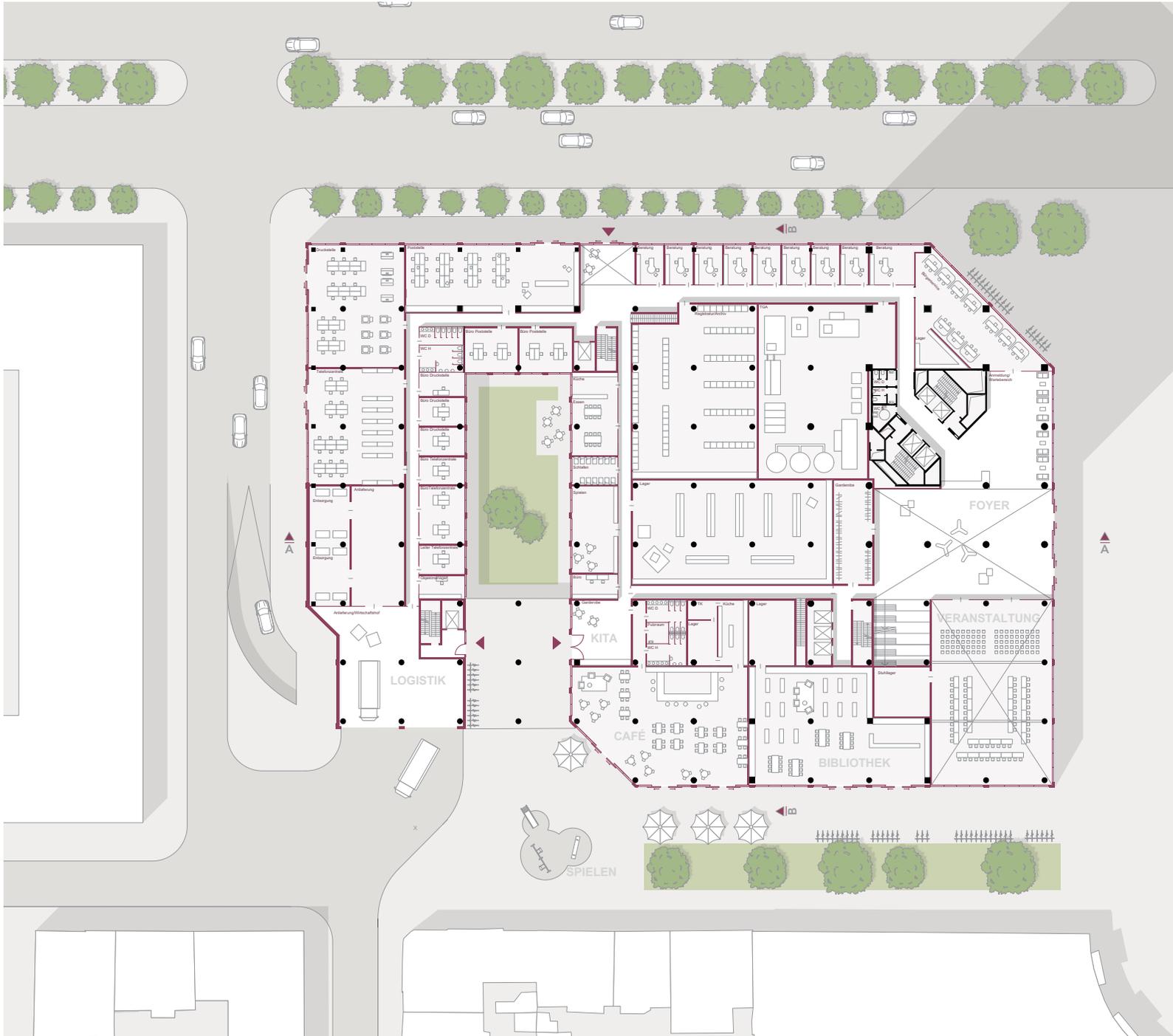


The demolition of the central part of the building creates a representative square in front of the town hall, which can be used for events and gatherings. A two-storey extension enables to accommodate the city administration under one roof. Two courtyards provide the workplaces sufficiently with daylight.

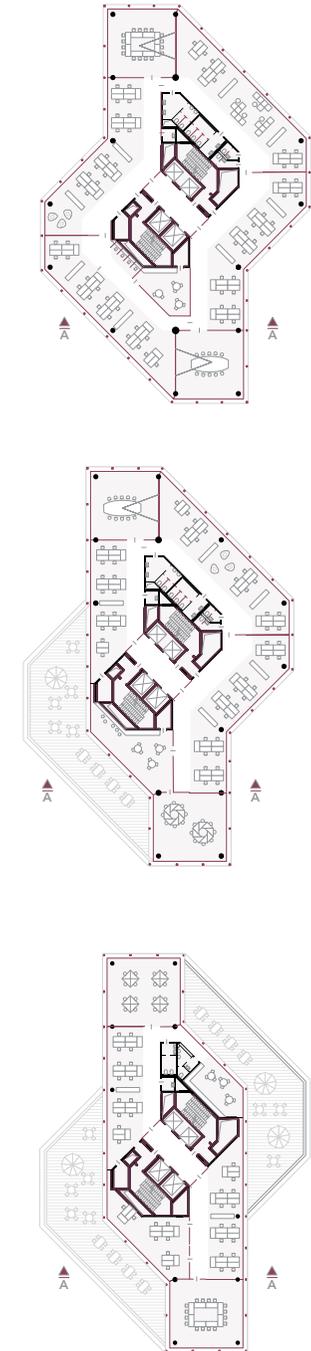
Functions



The public functions along the east and south sides of the building extend into the pedestrian zone. The commercial use is moved out of the town hall in order to clearly separate public and private interests.



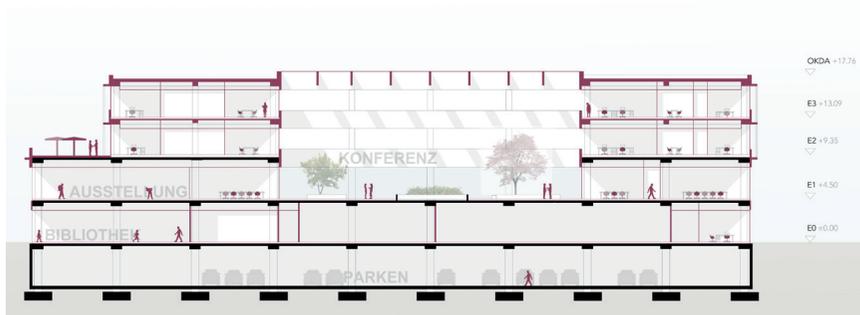
ground floor plan



floor plans tower



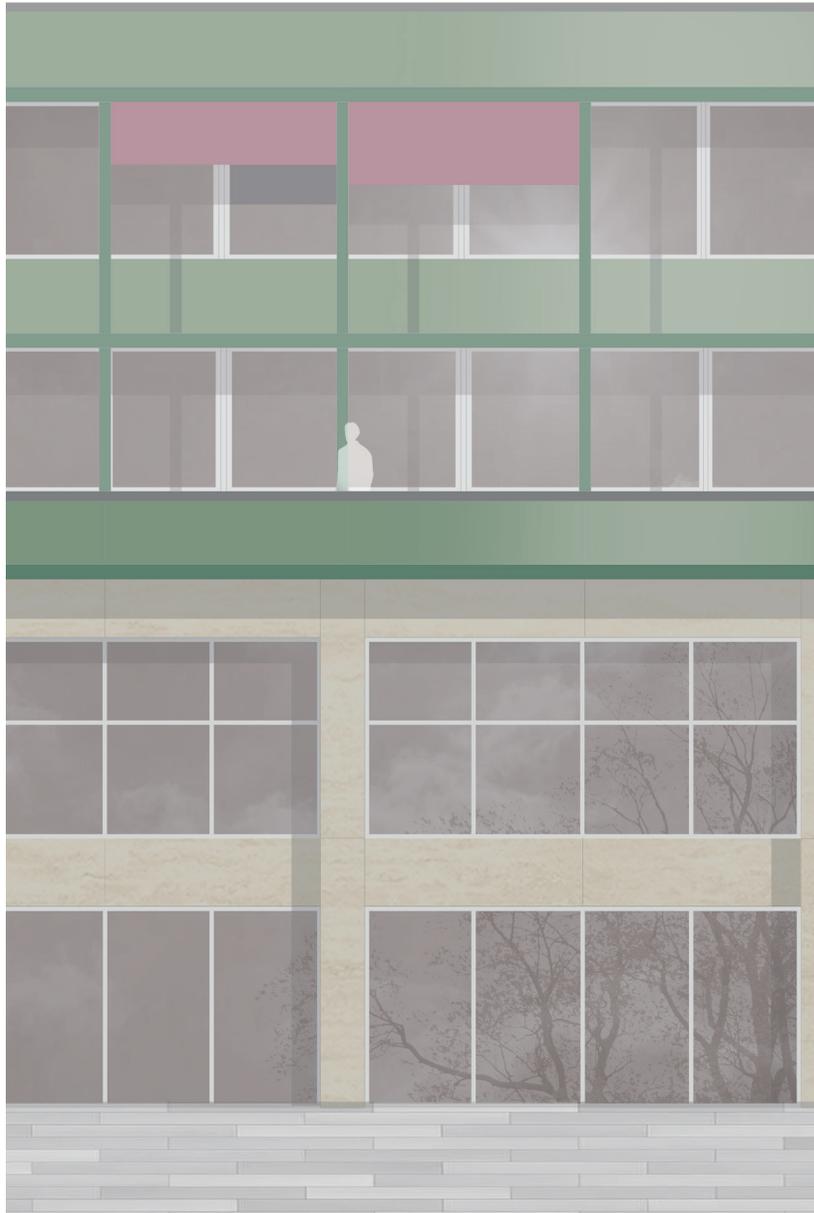
interior rendering reception area



cross section



longitudinal section



façade section

Roof

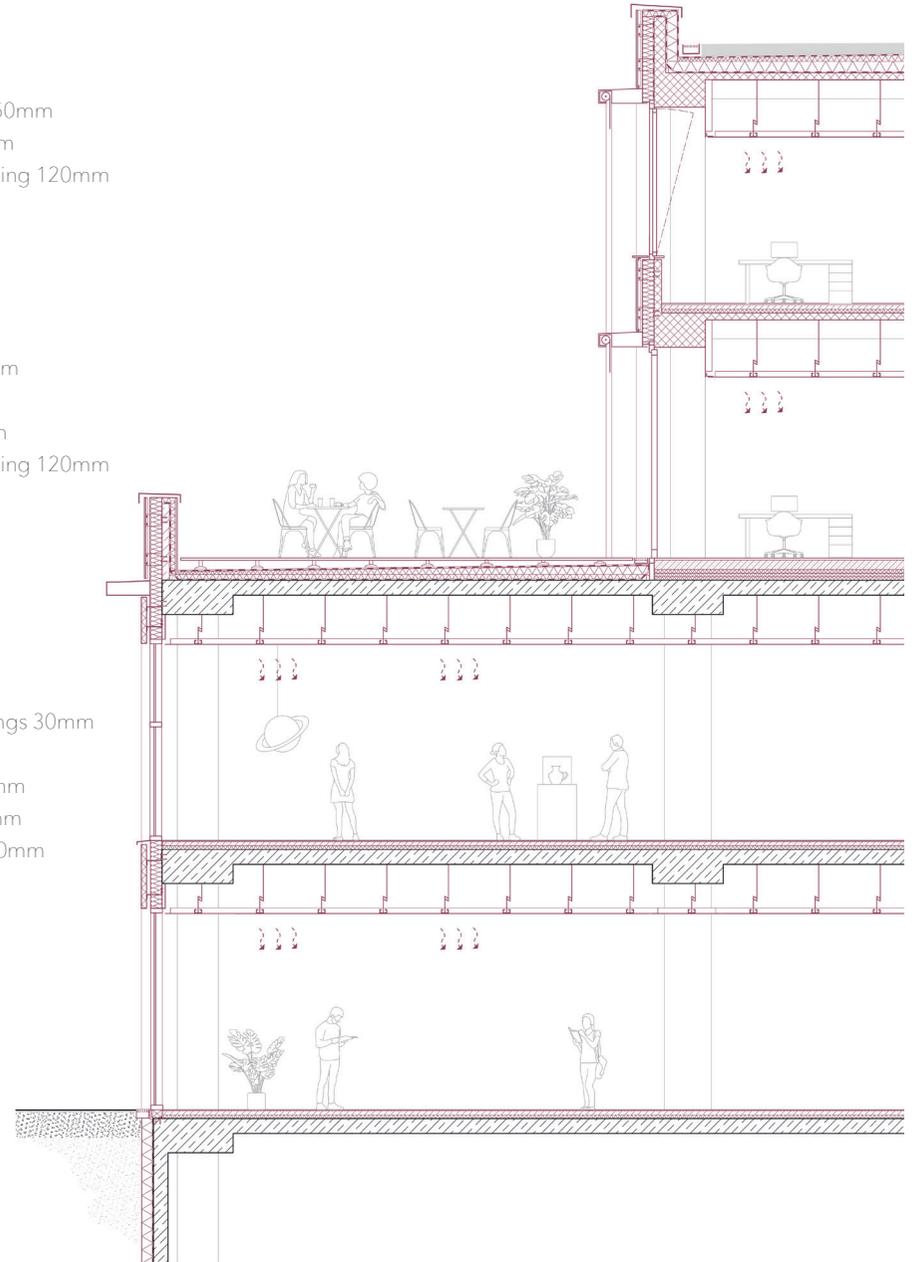
extensive green roof 100mm
 root-proof PE foil 0.2mm
 gradient insulation XPS 200-450mm
 bituminous vapour barrier 5mm
 wood-concrete composite ceiling 120mm

Storey Ceiling

polished screed covering 20mm
 screed 80mm
 impact sound insulation 70mm
 wood-concrete composite ceiling 120mm
 heating-cooling ceiling

Roof Terrace

slab covering on terrace bearings 30mm
 PE foil 0.2mm
 slope insulation XPS 120-200mm
 bituminous Vapour barrier 5mm
 reinforced concrete ceiling 250mm





interior rendering green atrium

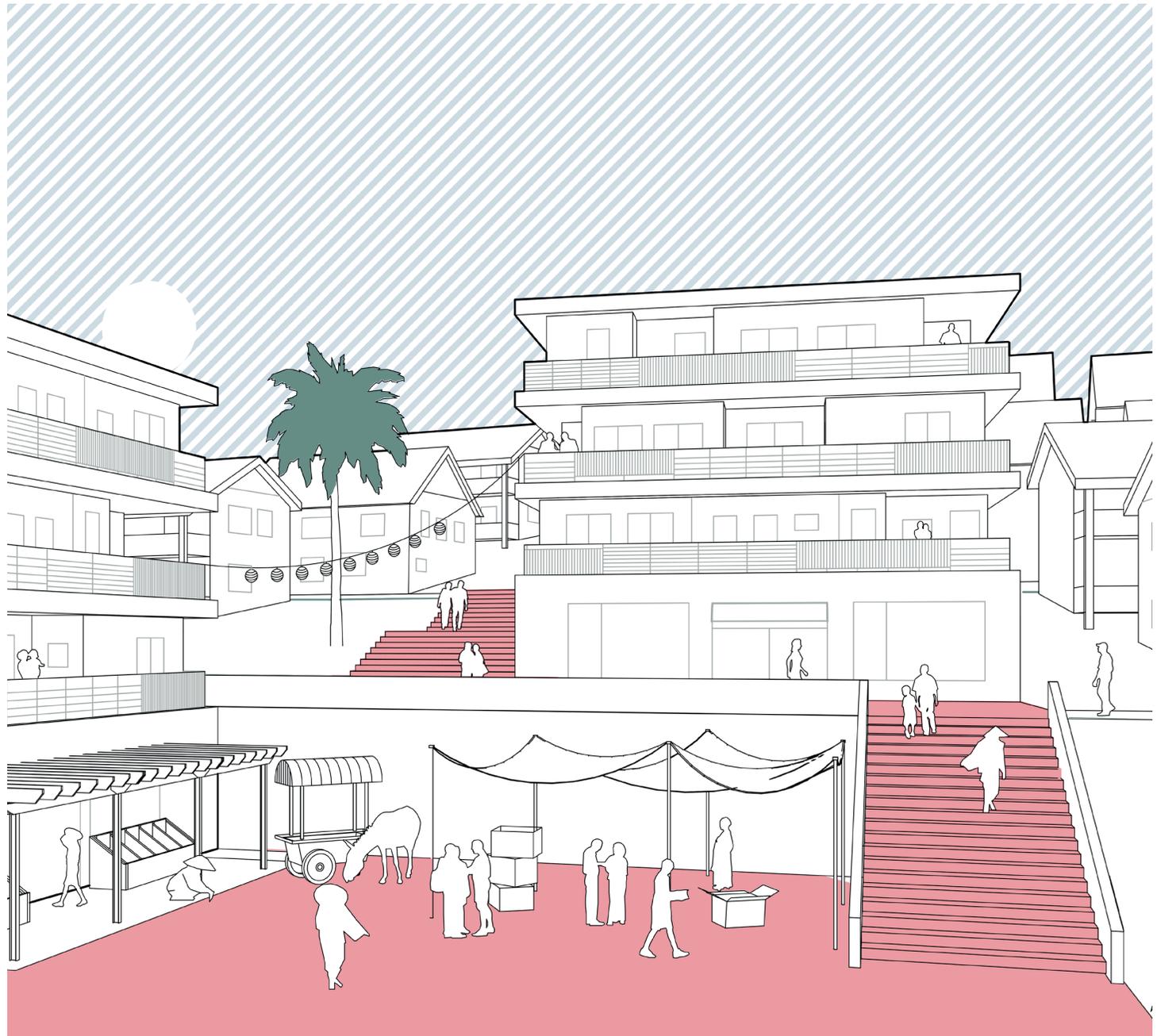


Incremental Urban Development in Hillside

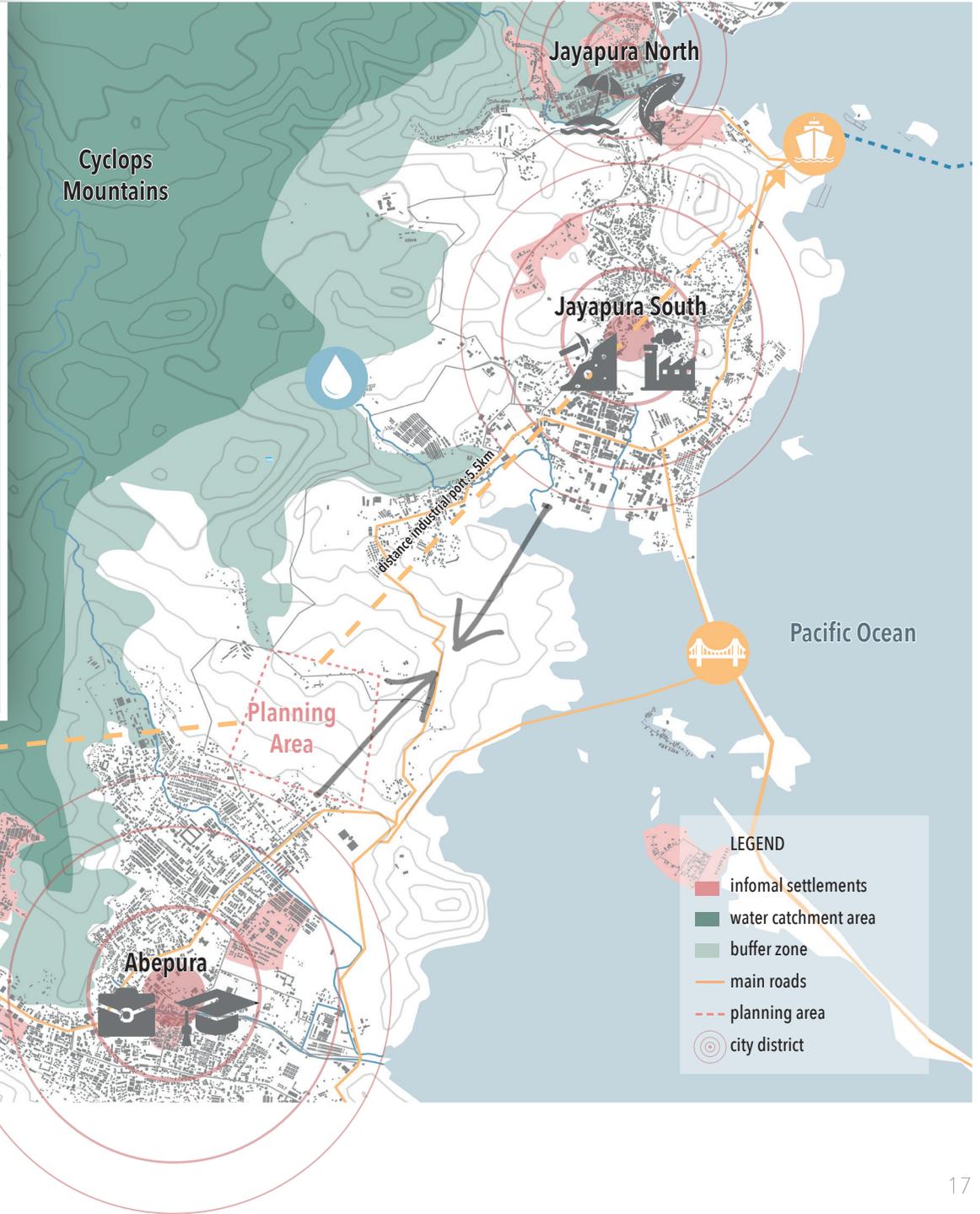
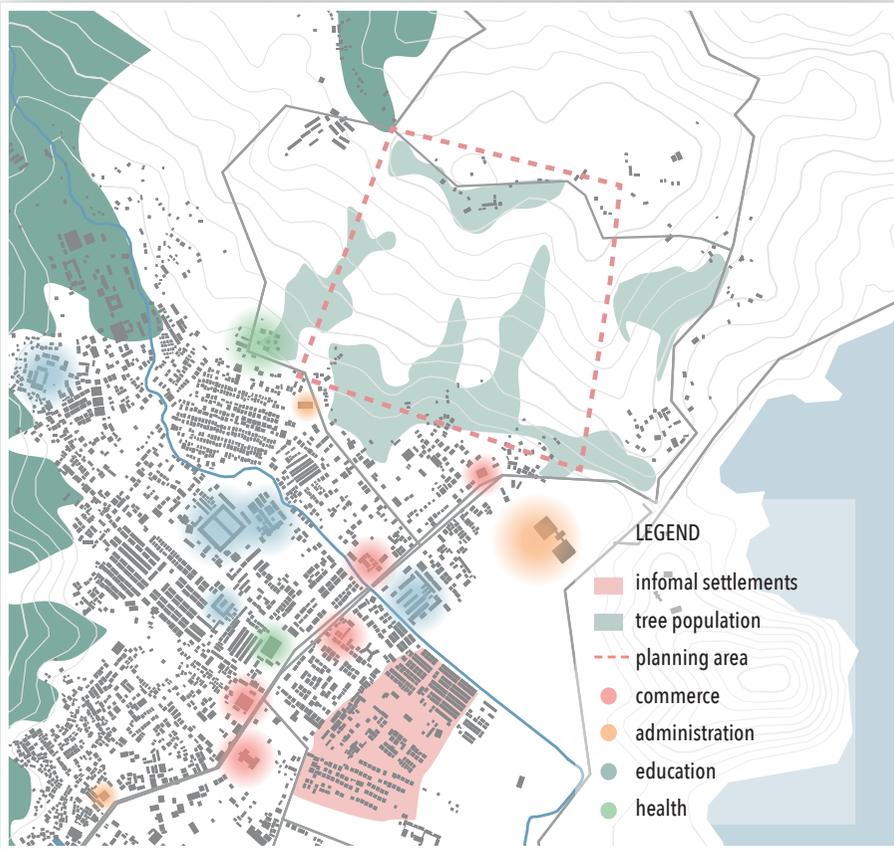
Urban Planning, SS 2021

Institute For District Planning, Prof. Neppi

The capital of the province of Jayapura is located in the eastern part of the Indonesian archipelago, on the island of Papua. With a population of over 300,000 inhabitants and an increasing immigration rate, Jayapura is the vibrant heart of the island. In search of work and education, many people from the countryside flock to the university city, whose main economic pillars are services and trade. As land in the valley becomes increasingly scarce, more and more poor people are settling on the dangerous slopes. Without proper planning, it is extremely difficult to supply these areas with infrastructure. Furthermore, the higher risk of landslides endangers lives. These problems are not unique to one specific location, but are found in valley cities all around the world, such as the famous favelas in Rio de Janeiro. The design „UP!“ is intended to create district that can function in spite of these difficult conditions, and serves as a prototype for future urban expansion in increasingly dense cities.



sketch: pedestrian access to the new district

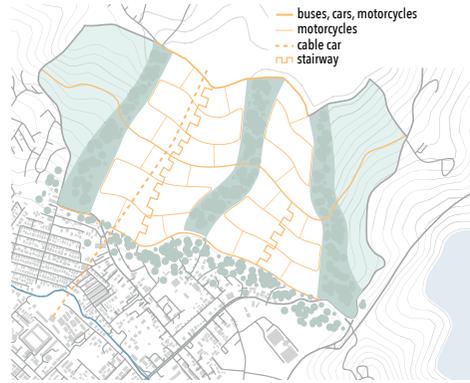


area analysis



Retention And Environment

Three green strips will run through the planning area to preserve the existing tree population and as an important retention area. A buffer zone in the valley of the hill will protect the city in case of rain flooding.



Mobility

Three main roads along the topography provide access to the area. One-way streets lead into the individual quarters. Ring Roads keep traffic out of the individual neighbourhoods. A cable car for easier access is established. Central stairways are created for pedestrians.



Public Space

Central parks within each district promote community. Two public squares and a new centre at the top of the hill with easy access will attract people outside the district. Pocket parks along the stairways invite people to stroll.



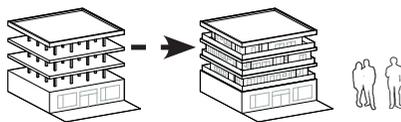
Social Infrastructure

The social infrastructure orients towards the quarter green. Office complexes will be implemented on the district squares. A university campus will be established on the mountain plateau.

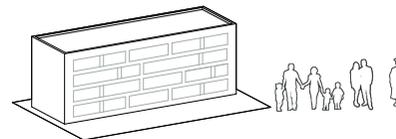
1 - single-family house
number of floors: 1 to 2
Ø plot size: 8m x 16m



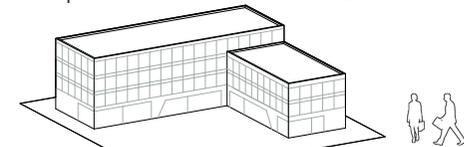
2 - point building
number of floors: 4
Ø plot size: 15m x 20m



3 - social housing
number of floors: 4
Ø plot size: 25m x 40m



4 - office complex
number of floors: 3 to 4
Ø plot size: 50m x 60m



self built
lower costs

planned
higher costs

typologies

SOCIAL INFRASTRUCTURE

- social
- commerce
- office

BUILDING STRUCTURE

- 1 floor
- 2 floors
- 3 floors
- 4 floors

PUBLIC SPACE

- city forest
- quarter green
- public open space

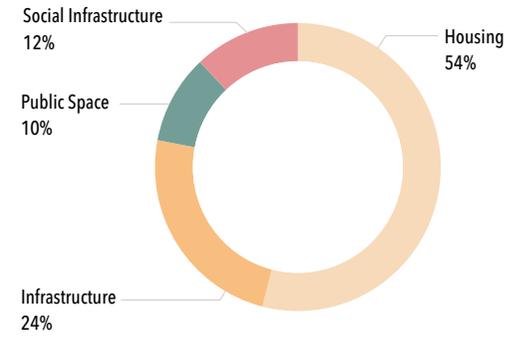
INFRASTRUCTURE

- vehicles
- motorbikes
- cable car



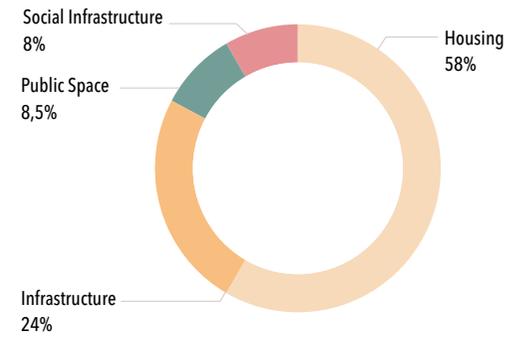


LAND BALANCE PLANNING AREA

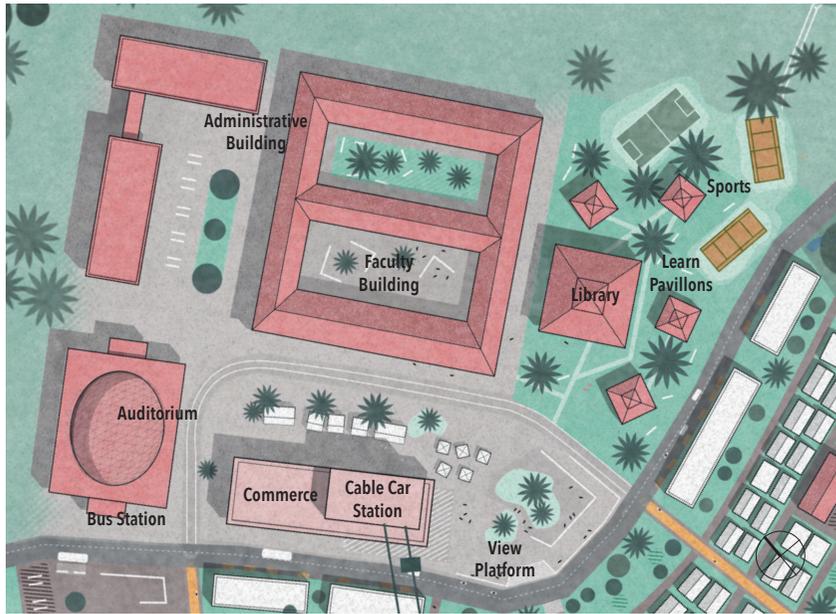


Housing	39.7ha
Infrastructure	17.6ha
Public Space	7.1ha
Social Infrastructure	9.1ha
total	73.5ha

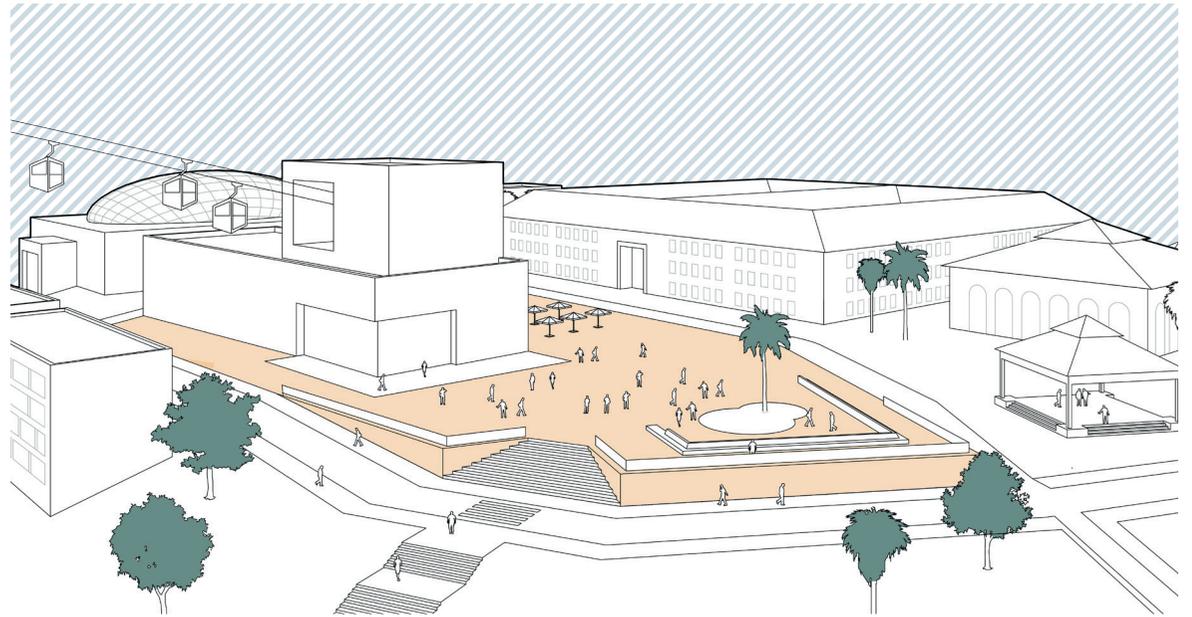
LAND BALANCE QUARTER MODULE



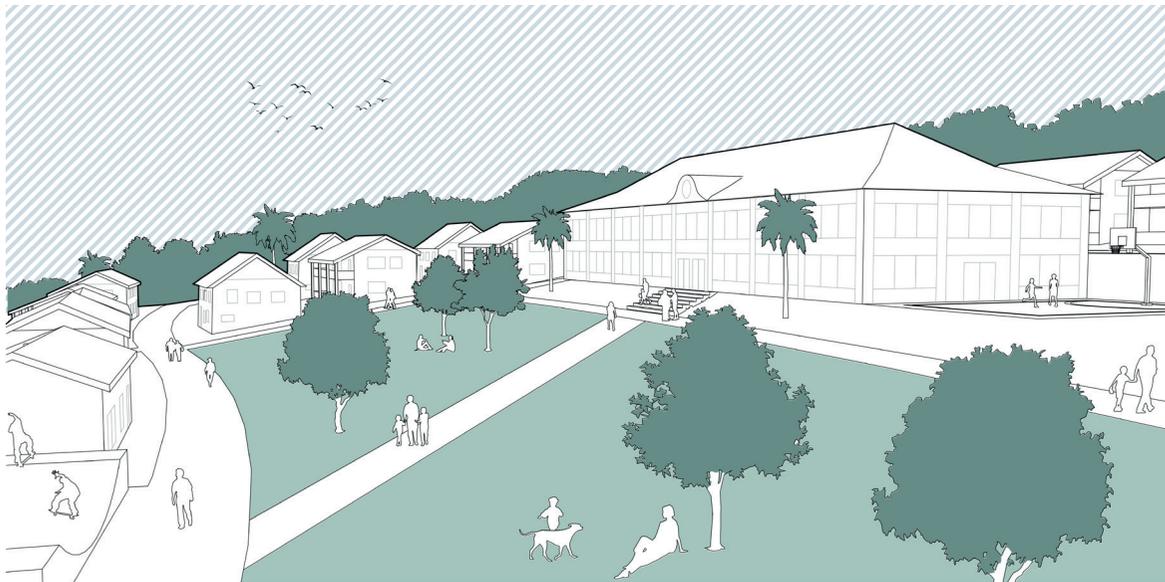
Housing	5.9ha
Infrastructure	2.4ha
Public Space	0.9ha
Social Infrastructure	0.8ha
total	10ha



zoom In: university campus



sketch: university campus



sketch: neighbourhood green



zoom in: neighbourhood green

Ocean Centre Trieste

Research Centre at the City Harbour

Bachelor Thesis, SS 2019

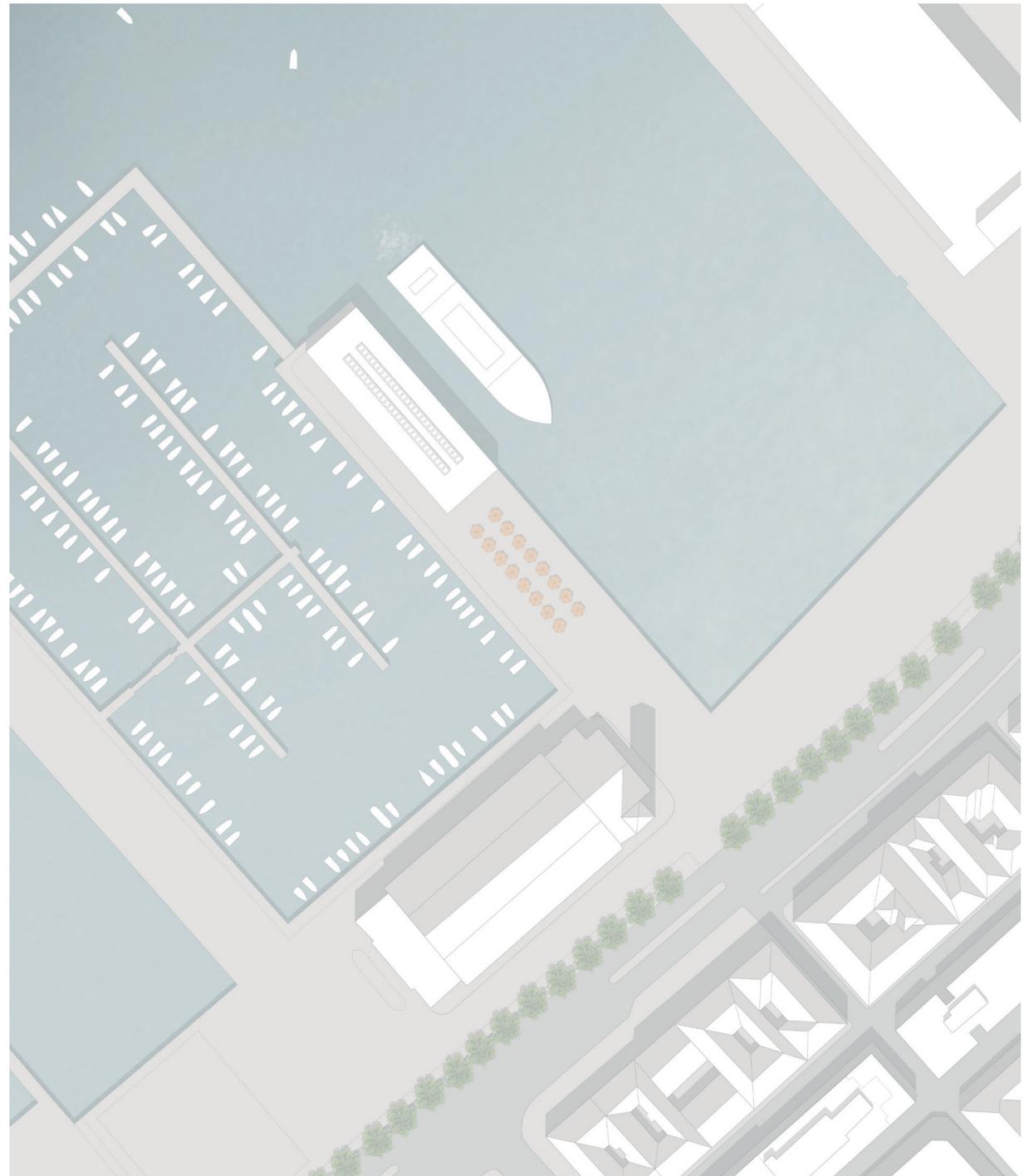
Institute of Design and Structural Engineering, Prof. Wappner

A marine research centre with an open exhibition area will be built on a narrow pier in the port of Trieste. The main entrance, cut into the body of the building, is well visible from the city centre and invites visitors to explore the building. The three metre wide cantilever is supported by steel beams. Visitors are guided alongside the building with fantastic views of the sea and deeper insights into the researchers' work spaces. They are led to the experimental workshops on the first floor, which contain a flow channel and three water tanks. The public staircase then takes visitors to the exhibition rooms on the second floor, where the highly gridded façade opens up to the outside through large display windows, creating a visual accent.

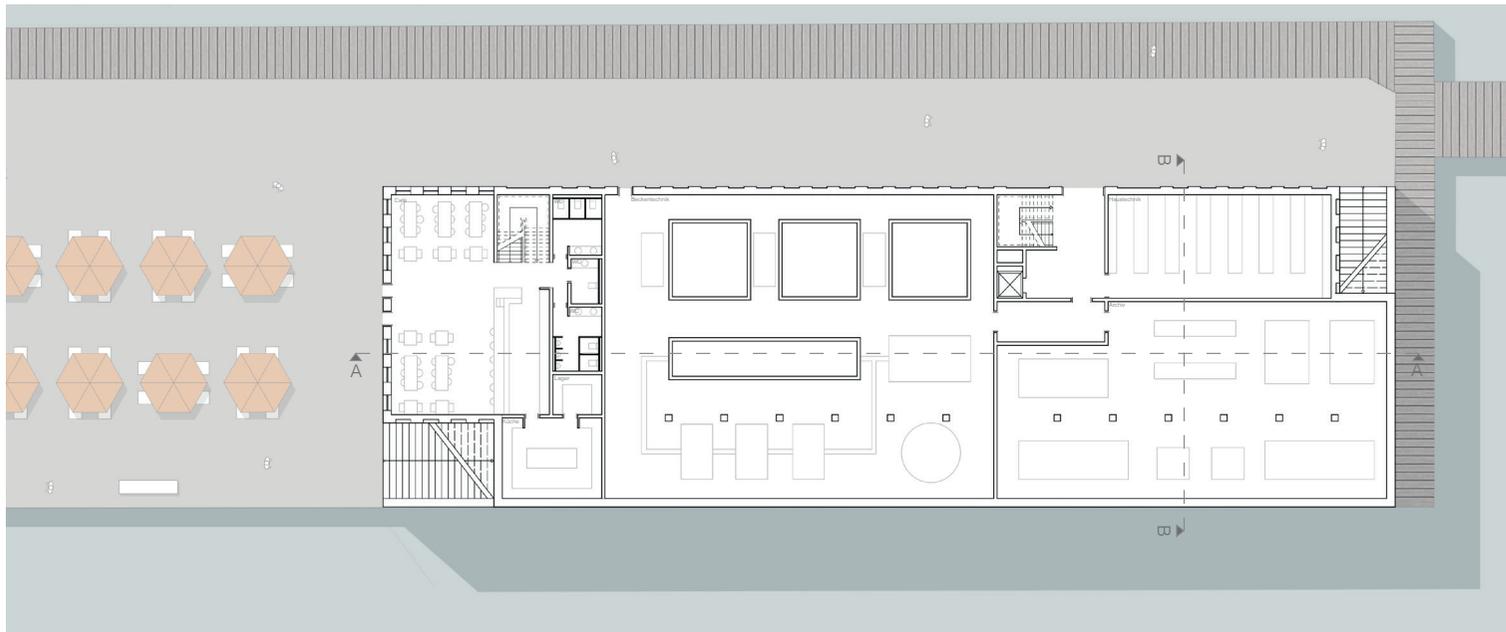
A public space will be established between the Ocean Centre and the existing Salone, a marine museum. The plaza will be animated by a café on the ground floor. The gallery of the café houses a library with more information about the institution's purpose.

The upper floor houses the laboratories in which the researchers can work undisturbed. The laboratories are arranged along the exterior façade and provide naturally ventilated workplaces. The internal corridor is used for meeting rooms, creating a communicative zone.

The natural stone facade blends in with the quay wall, giving the Ocean Centre a monolithic appearance.



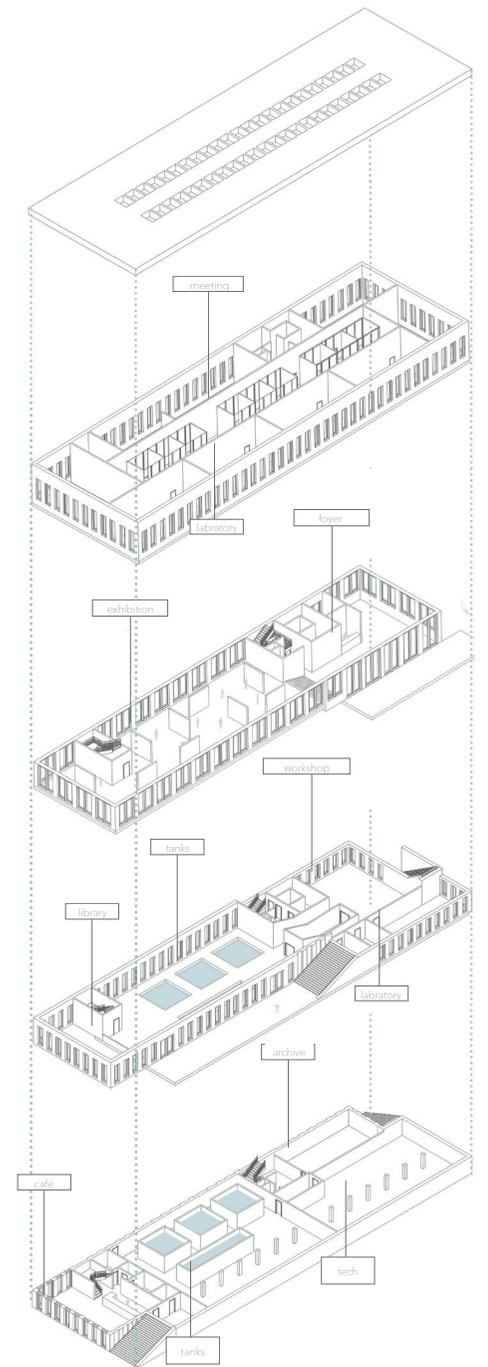
site plan



ground floor plan

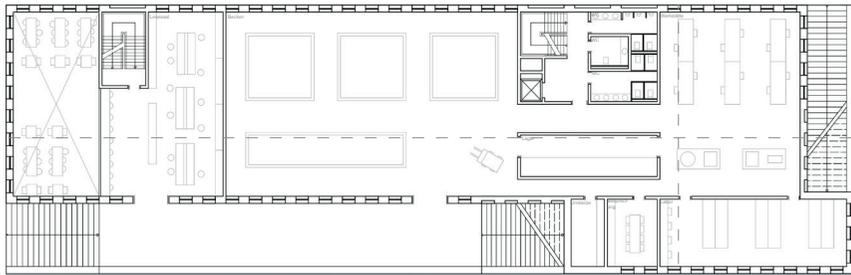


exterior rendering

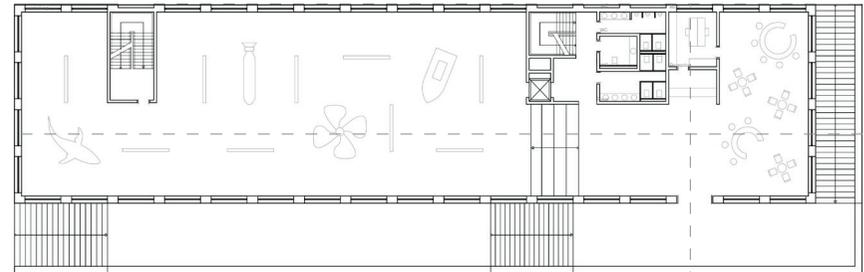




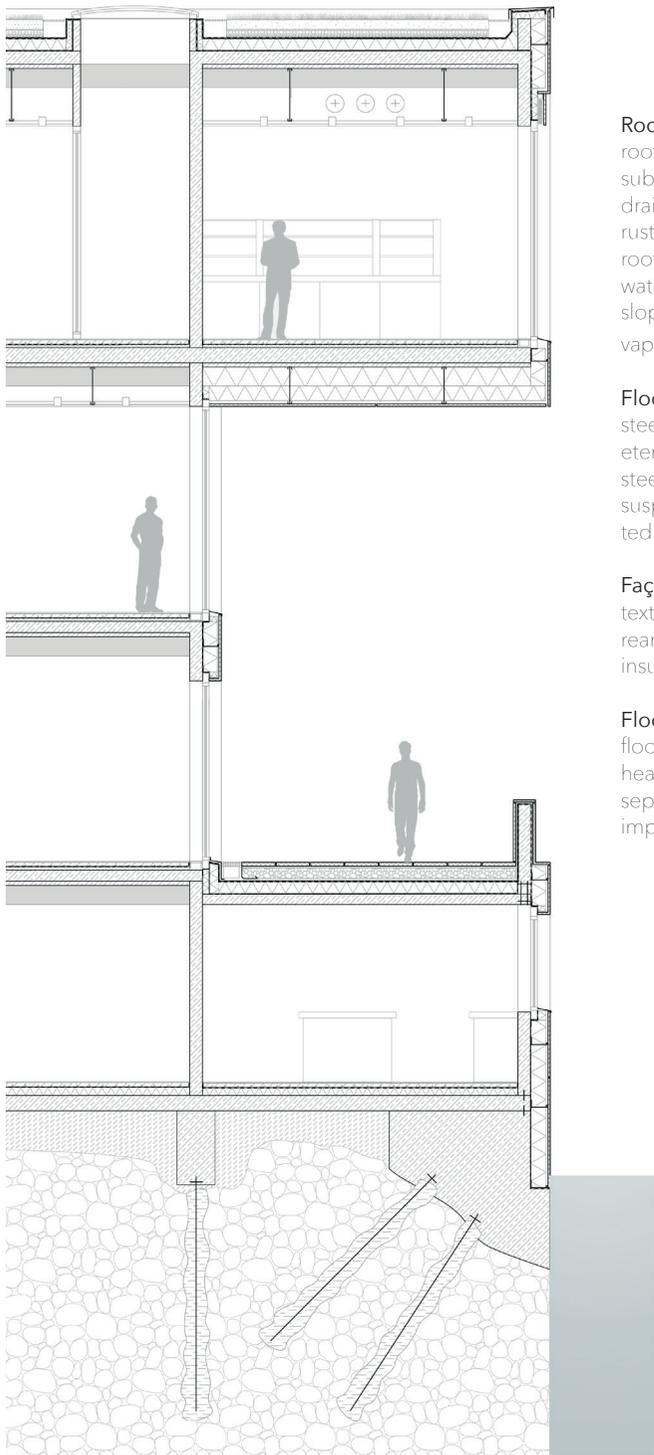
interior rendering



floor plan first floor



floor plan second floor



Roof

roof greening
 substrate
 drainage layer
 rust protection blanket
 root protection
 waterproofing membrane
 slope insulation 20mm
 vapour barrier

Floor slab

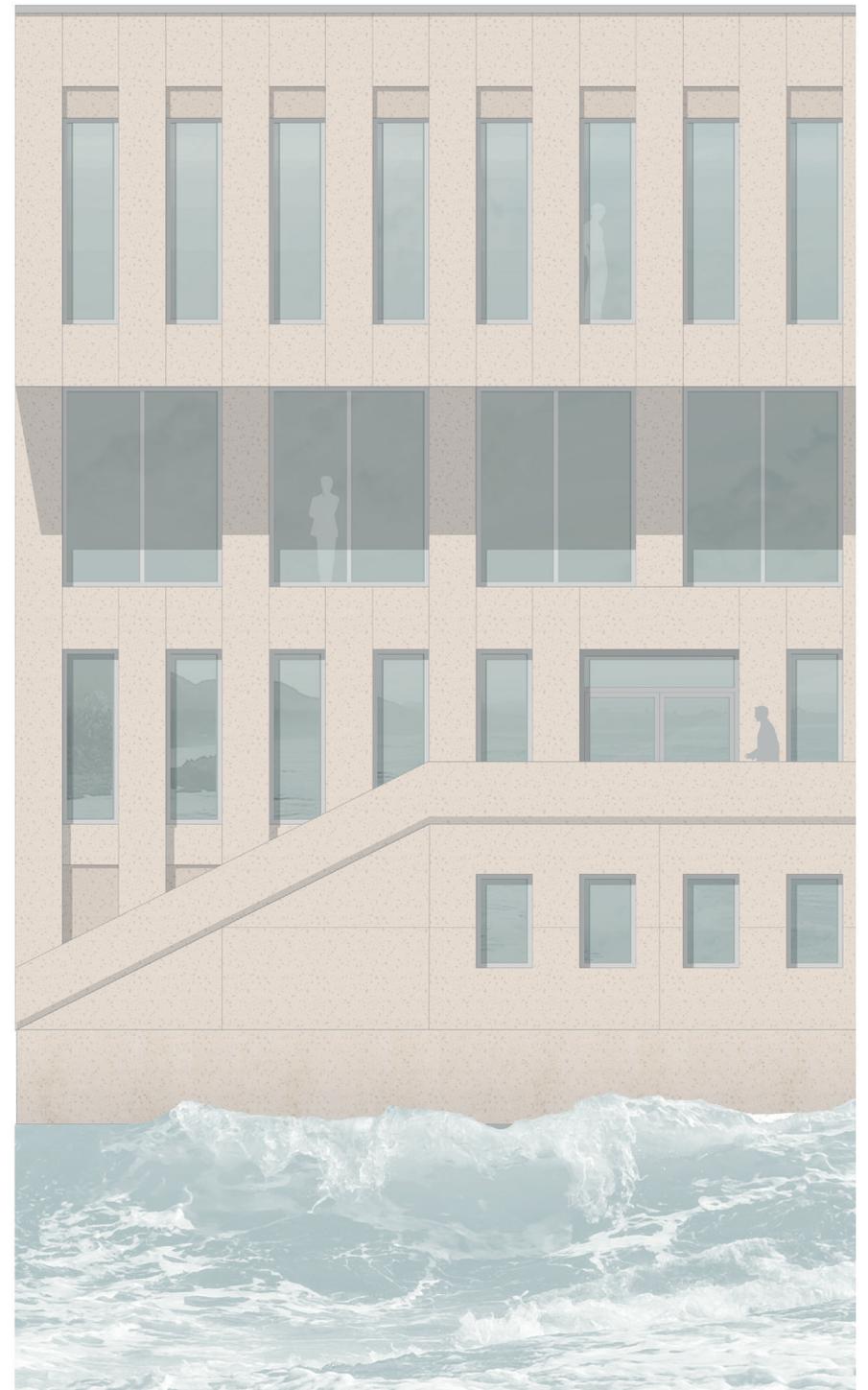
steel Concrete 200mm
 eternit slab
 steel composite slab S335, IPE 360
 suspended installation ceiling with integrated lighting

Façade

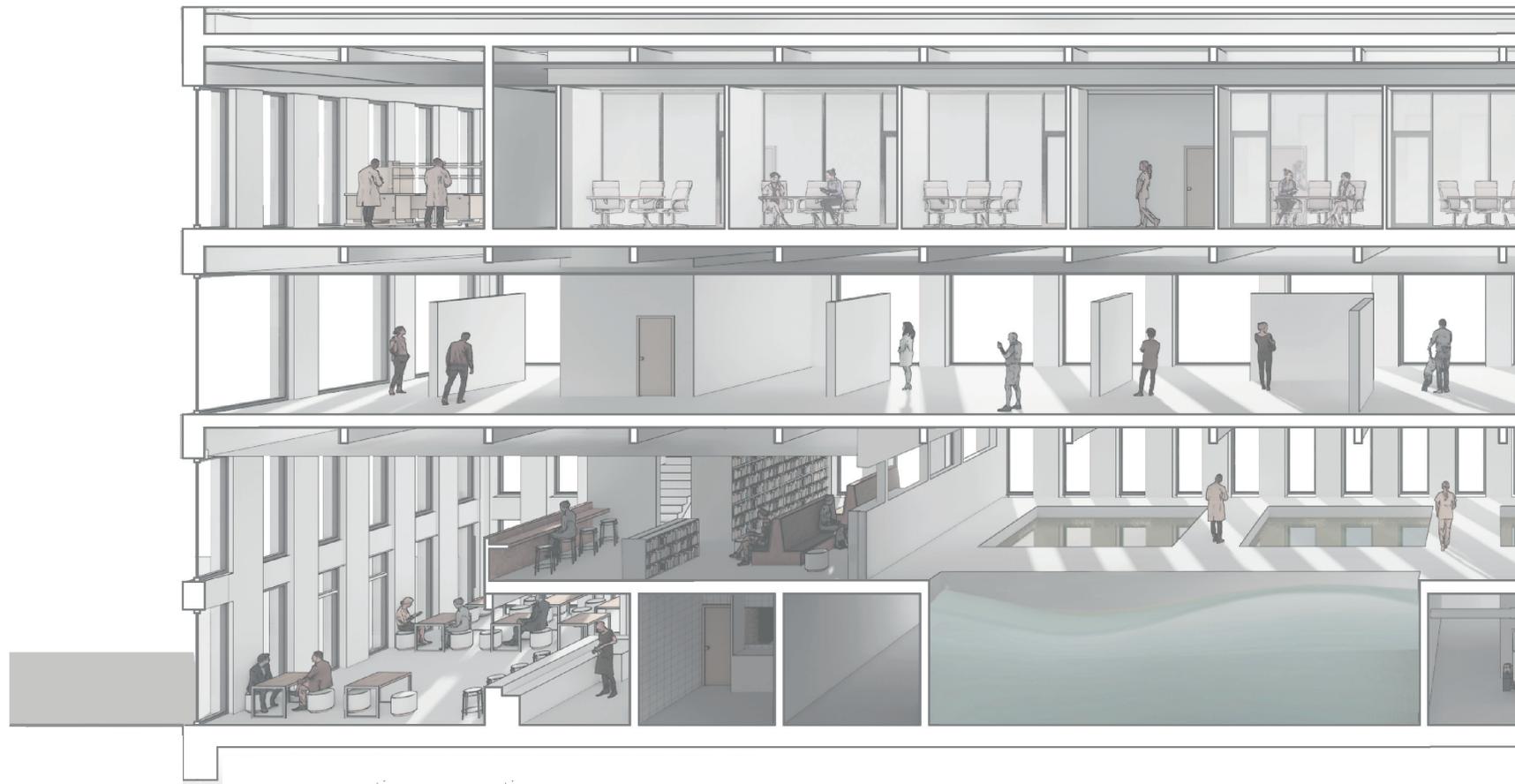
textured concrete slab 30mm
 rear ventilation 40mm
 insulation 20mm

Floor

floor covering
 heat insulation 65mm
 separating foil
 impact sound insulation 40mm



façade section



cross section perspective



Woodscraper

Housing Complex in Neustadt an der Weinstraße

Building Construction, WS 2018

Institute For District Planning, Prof. Nepl

In Neustadt an der Weinstraße, a residential complex in timber construction is to be built on a previously unused brownfield site. The new neighbourhood forms an inwardly oriented community that creates semi-public spaces with different atmospheres through a sequence of inner courtyards. At the eastern end of the residential complex, a high point forms an accentuated conclusion and provides an appropriate response to the police station across. The central neighbourhood square with adjoining communal areas and shops for local supplies serves as a meeting point and daily meeting place for residents. An office complex further enlivens this area and allows for a mix of residential and commercial uses. Due to increasing demand, the residential units are primarily designed for one and two-person households and are accessible without barriers. For families, terraced houses with private gardens and a public playground are available to the south of the site. The building construction is particularly environmentally friendly thanks to the use of wood as a natural resource and mainly utilises solar energy for power supply.

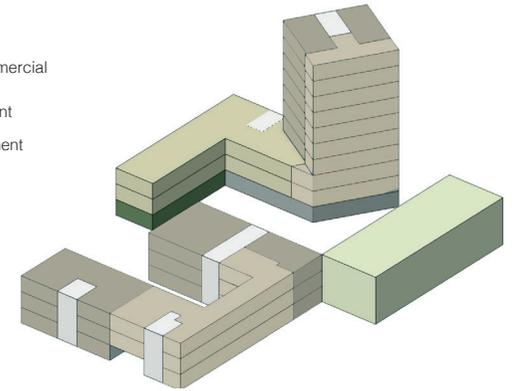


exterior rendering



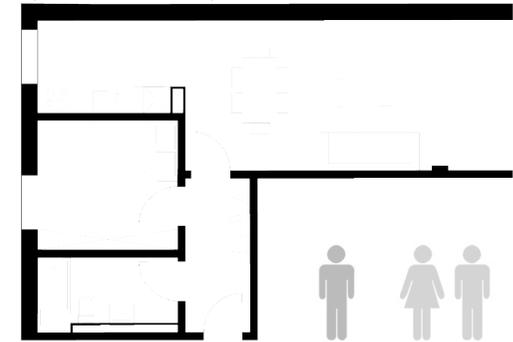
floor plan first floor

- communal area
- local supply
- non-intrusive commercial operations
- two-room apartment
- three-room apartment
- terraced houses
- stairwell



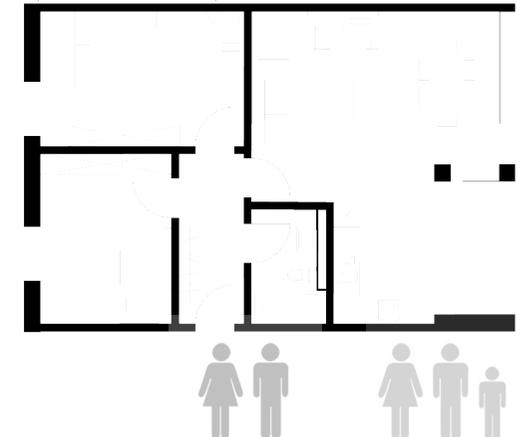
apartment example I

59 m²



apartment example II

79,5 m²





interior rendering



cross section

Green Roof Structure
Improvement of the microclimate
infiltration

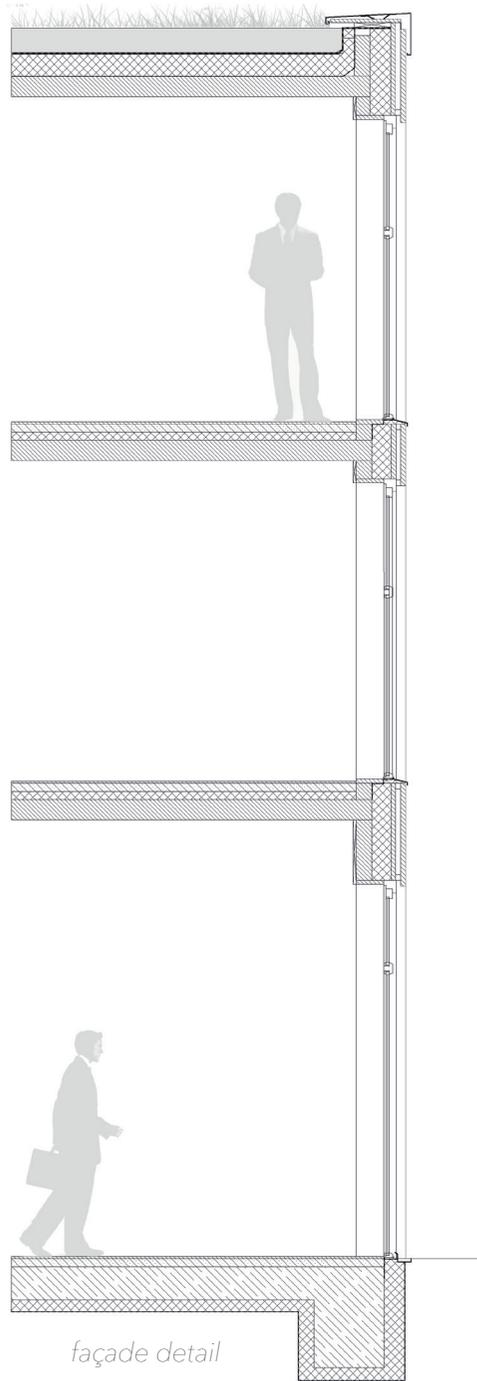
Stack Plank Construction
diagonally dowelled
enables high spans

Jute Insulation
biodegradable

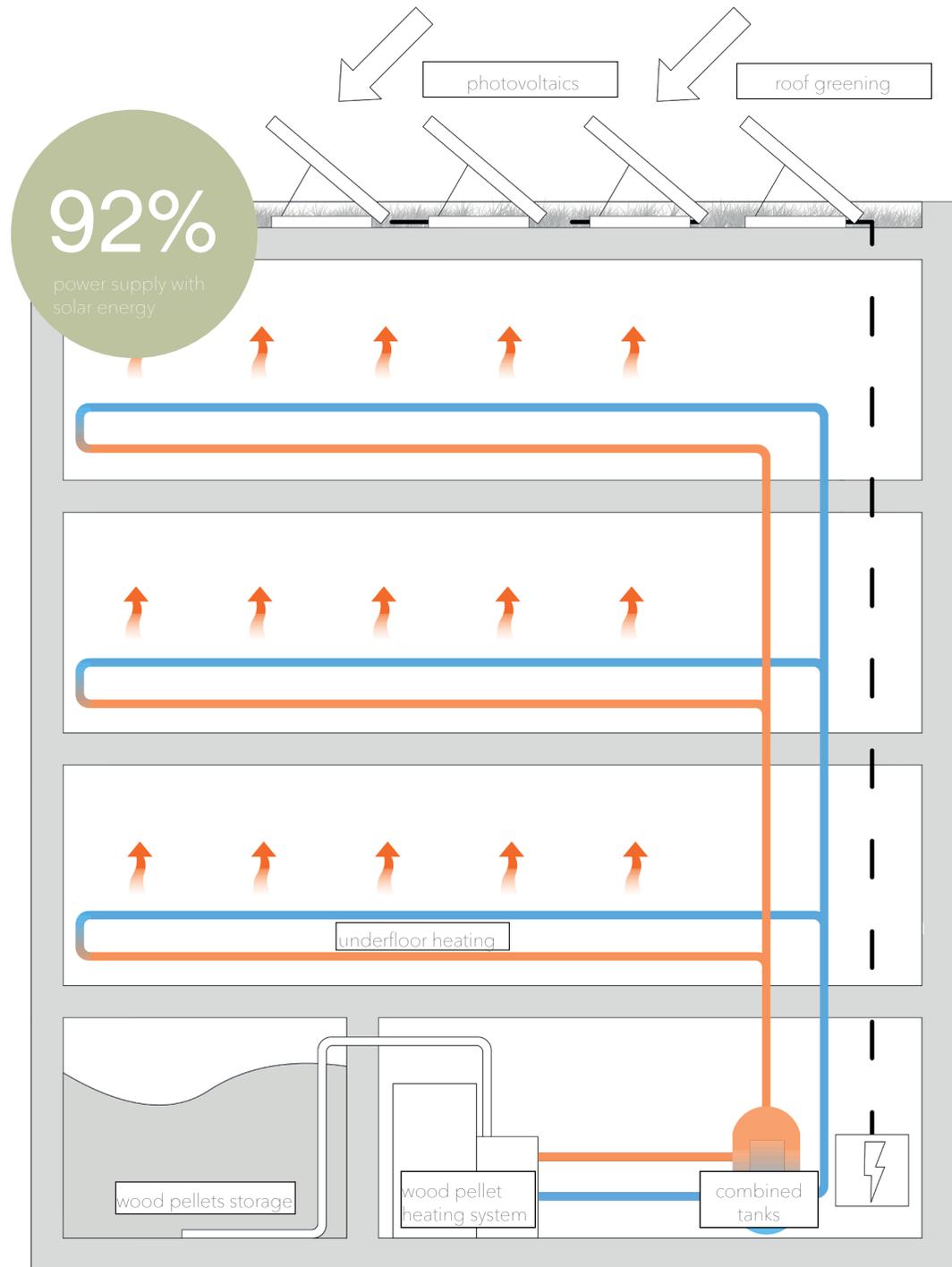
Floor structure
heated screed
impact sound insulation

Glass Façade
triple insulating glazing

Strip foundation
reinforced concrete



façade detail



energy concept

Sports Centre Oberkochen

New Construction Indoor Pool and three-pitch Sports Hall

New construction of an indoor swimming pool:

- swimming pool with 4 lanes and Aquacross facility (climbing and diving course above the pool)
- children's area with paddling pool with jet stream canal, waterfall, mini slide and half-slide
- non-swimmer's pool with attractions, with openable façade over 9 m and 12 m wide
- sun terrace with sun loungers
- sauna area with sauna, bio-sauna, Turkish bath, heat pool plunge pool, experience shower, relaxation room, lounge area with fireplace and sauna garden

New construction of a 3-pitch sports hall:

- 3-pitch sports hall with telescopic stand, changing rooms/showers and equipment rooms

Client:

City of Oberkochen
Eugen-Bolz-Platz 1
73447 Oberkochen
Germany

Costs:

~31.5 Mio €

Start of Construction:

March 2021

Opening:

February 2024

Gross Floor Area:

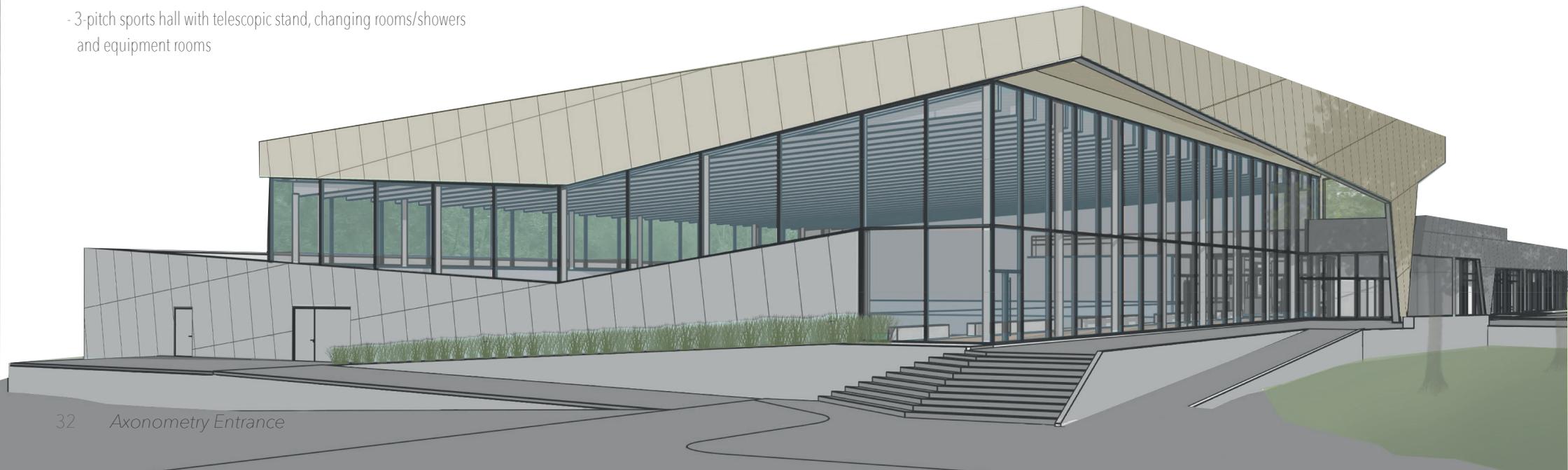
~7 445m²

Effective Area:

~7 000m²

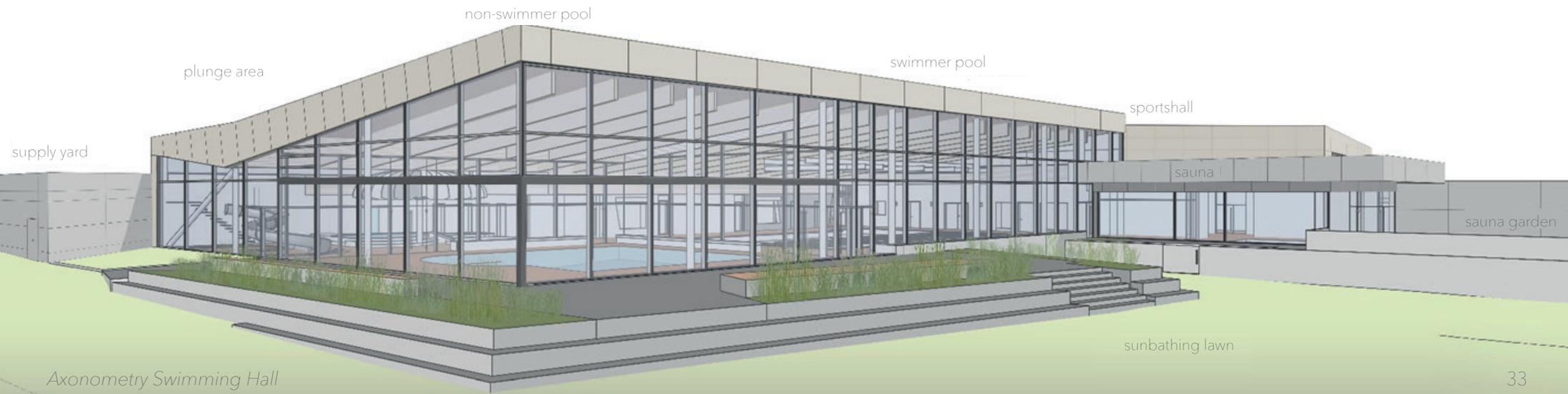
Gross Volume:

~45900m³





ground floor plan



plunge area

non-swimmer pool

swimmer pool

sportshall

supply yard

sauna I

sauna garden

sunbathing lawn

Axometry Swimming Hall



interior rendering non-swimmer pool



interior rendering sports hall



interior rendering plunge pool area

Swim Centre Pforzheim

New Construction Indoor Pool and Renovation Outdoor Pool

Competition 2023, Pforzheim
Finalist

High above the city on the Wartberg, a new indoor swimming pool is being built next to the existing outdoor pool in Pforzheim. Our concept emphasises the outstanding location of the swimming pool and allows a breathtaking view of the city panorama: to this end, a terraced landscape with catering facilities for outdoor and indoor pool visitors as well as sauna guests is being created in the south of the site.

An inviting forecourt will lead visitors into the foyer, which will provide views of the outdoor and indoor pools. It also provides external visitors with access to the spectator stands of the swimming pool during events via a gallery.

On the first floor you enter the sauna world, which is situated around a quiet roof garden.

The various swimming halls fan out along the changing rooms, picking up the axes of the existing outdoor pool. The result is a respectful juxtaposition between the indoor pool and the existing outdoor pool, with open spaces flowing naturally between the two areas.

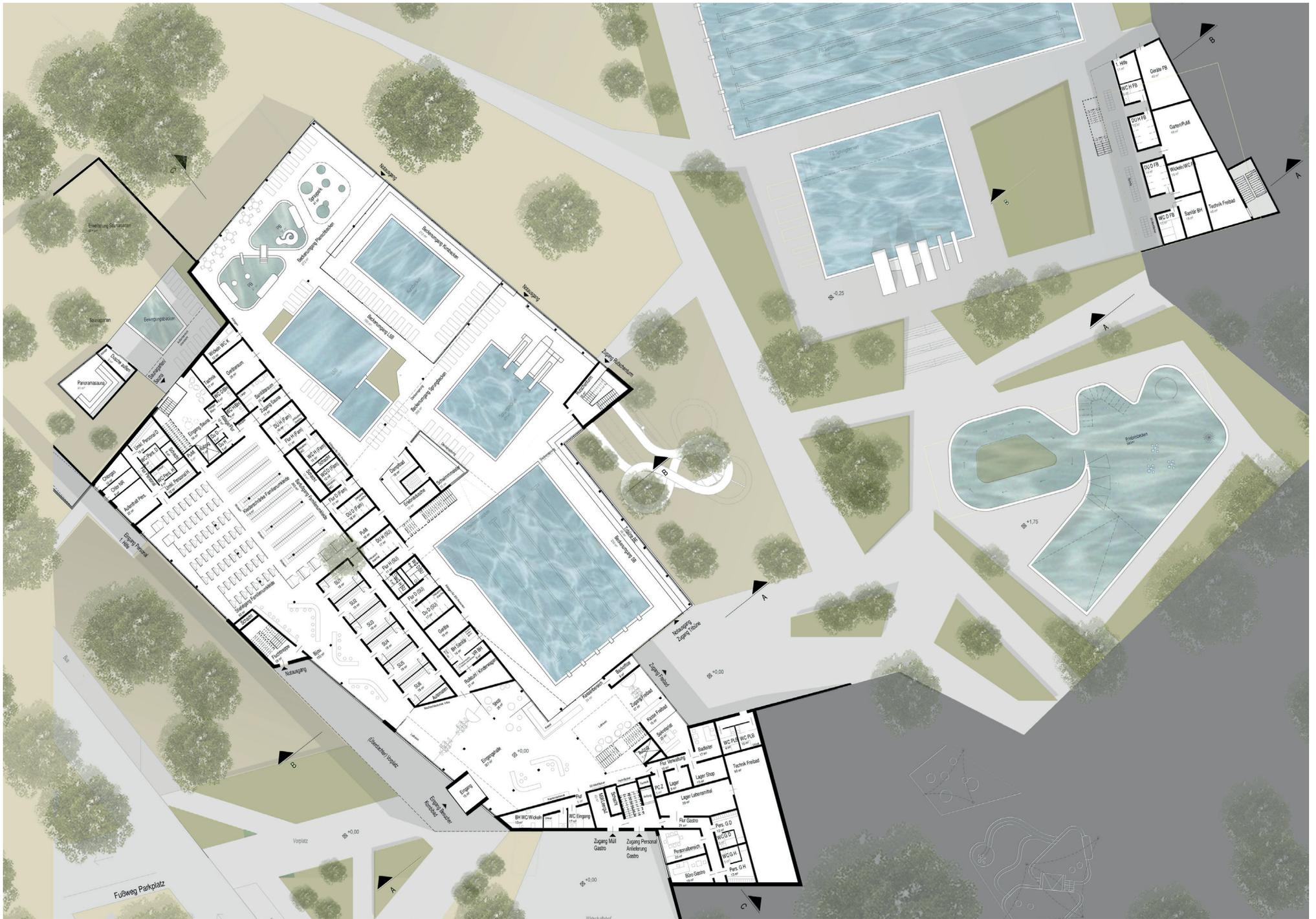
The open-air pool is being completely renovated, including replacing the cladding of the pools with stainless steel, and a new spray park that will be situated next to the gastronomy area.



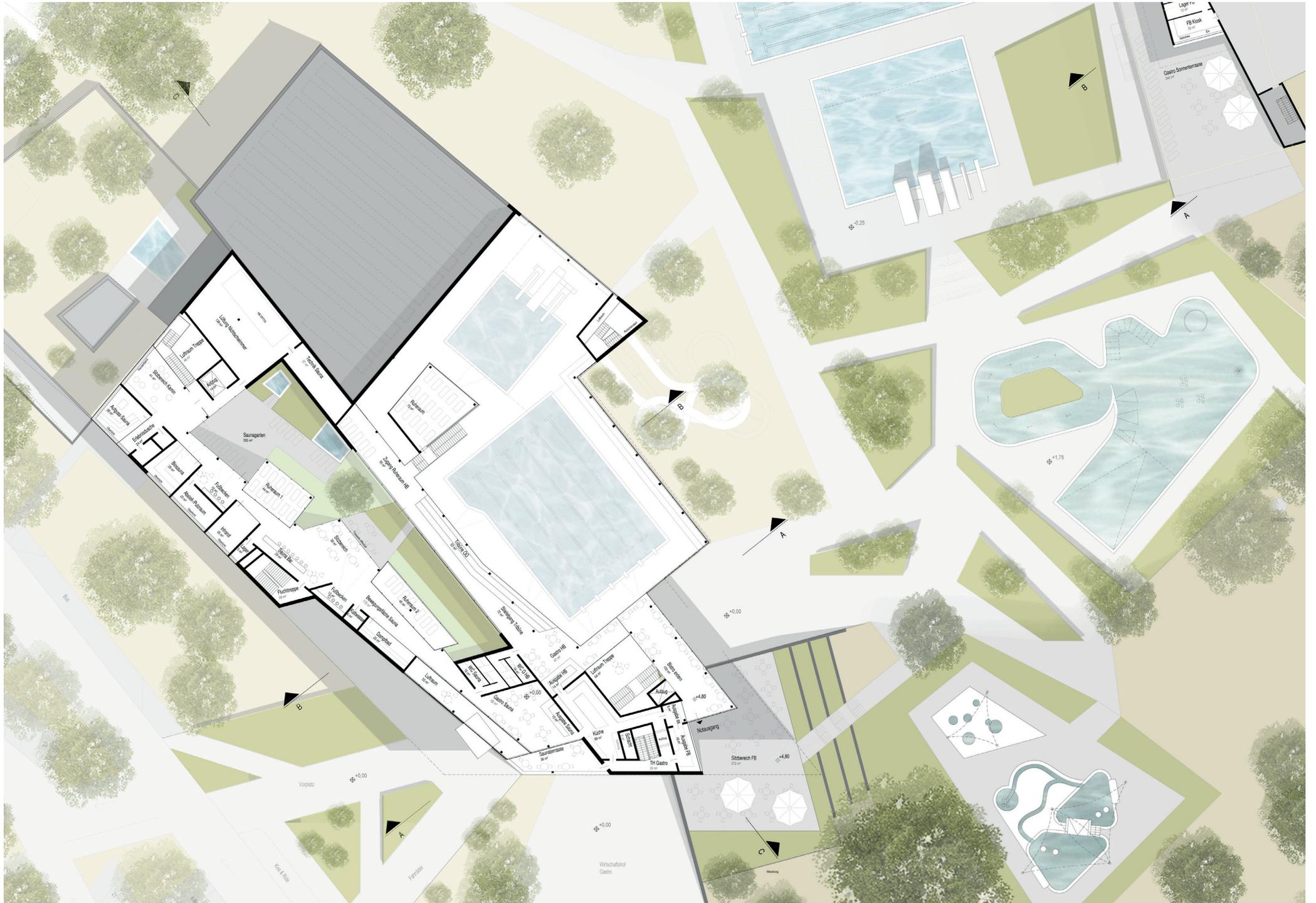
urban modell



section C-C



ground floor plan





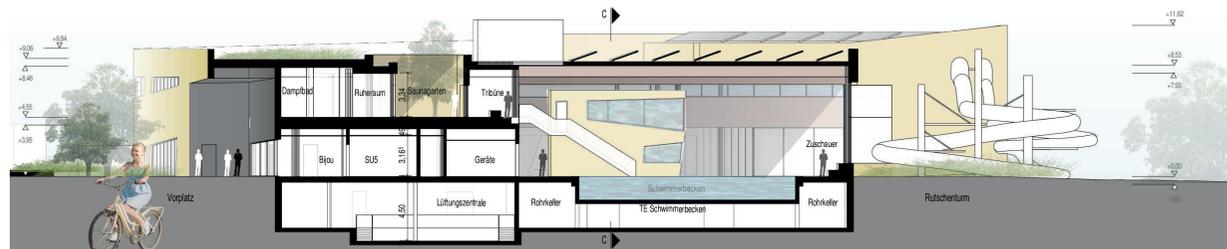
exterior rendering forecourt

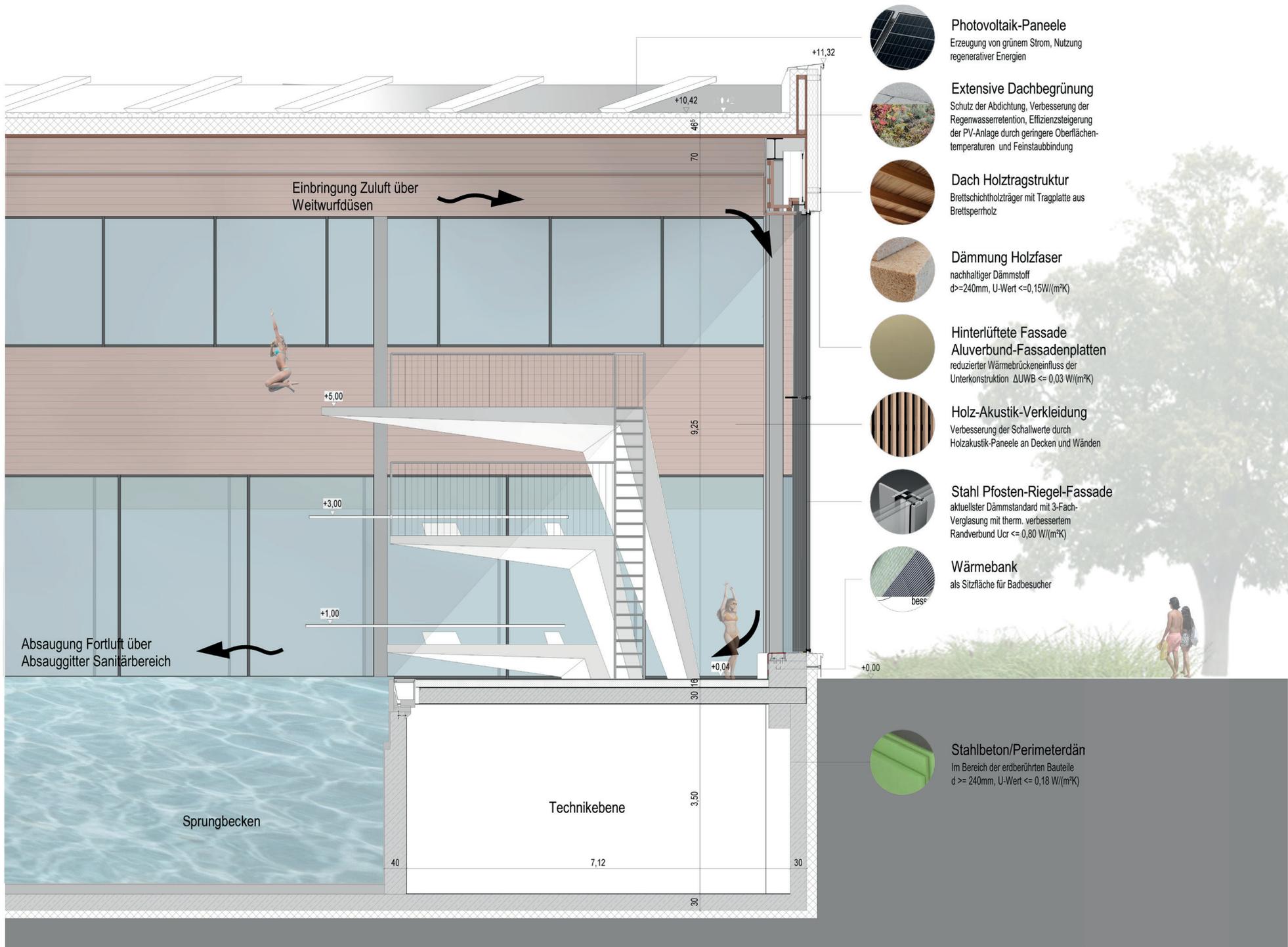


section A-A



exterior rendering outdoor pool





façade detail

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