

Campus development

Liebenberg



projects

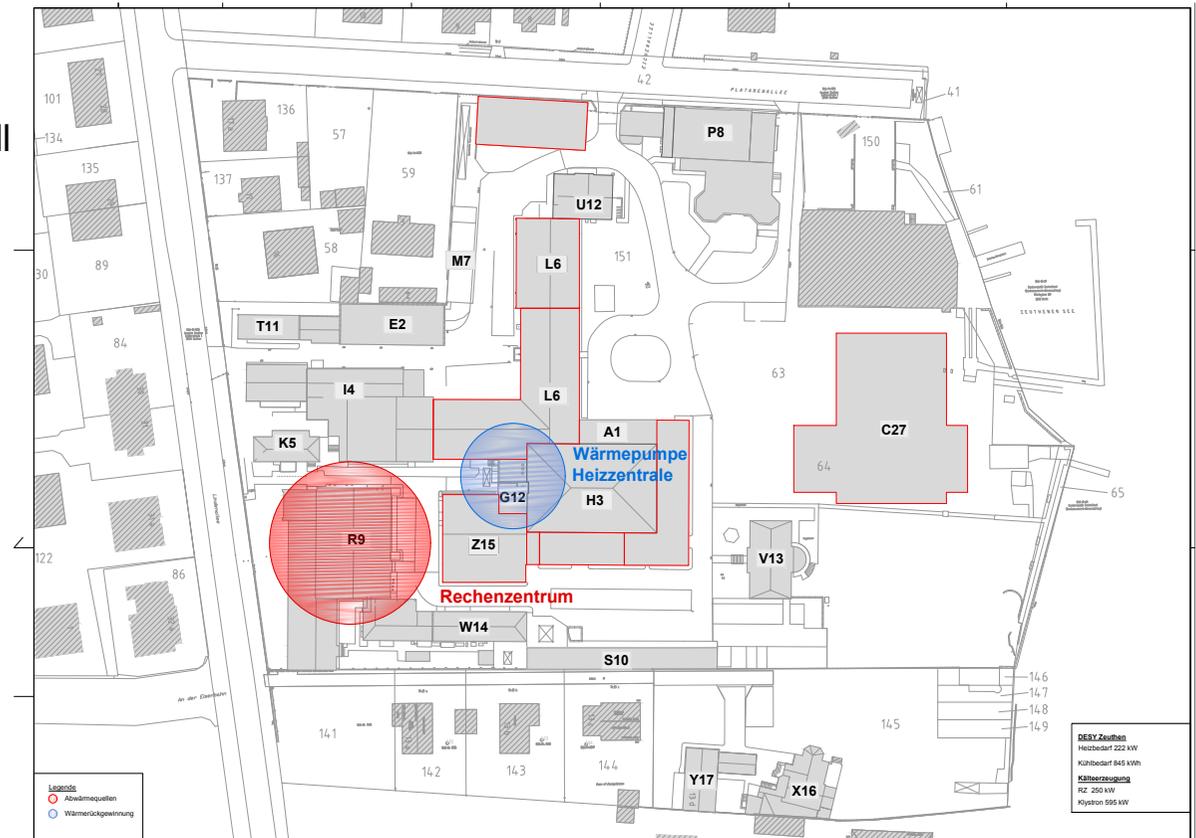
Beforehand...

**... I am just an Architect, not
an Energie Ingenieur!**

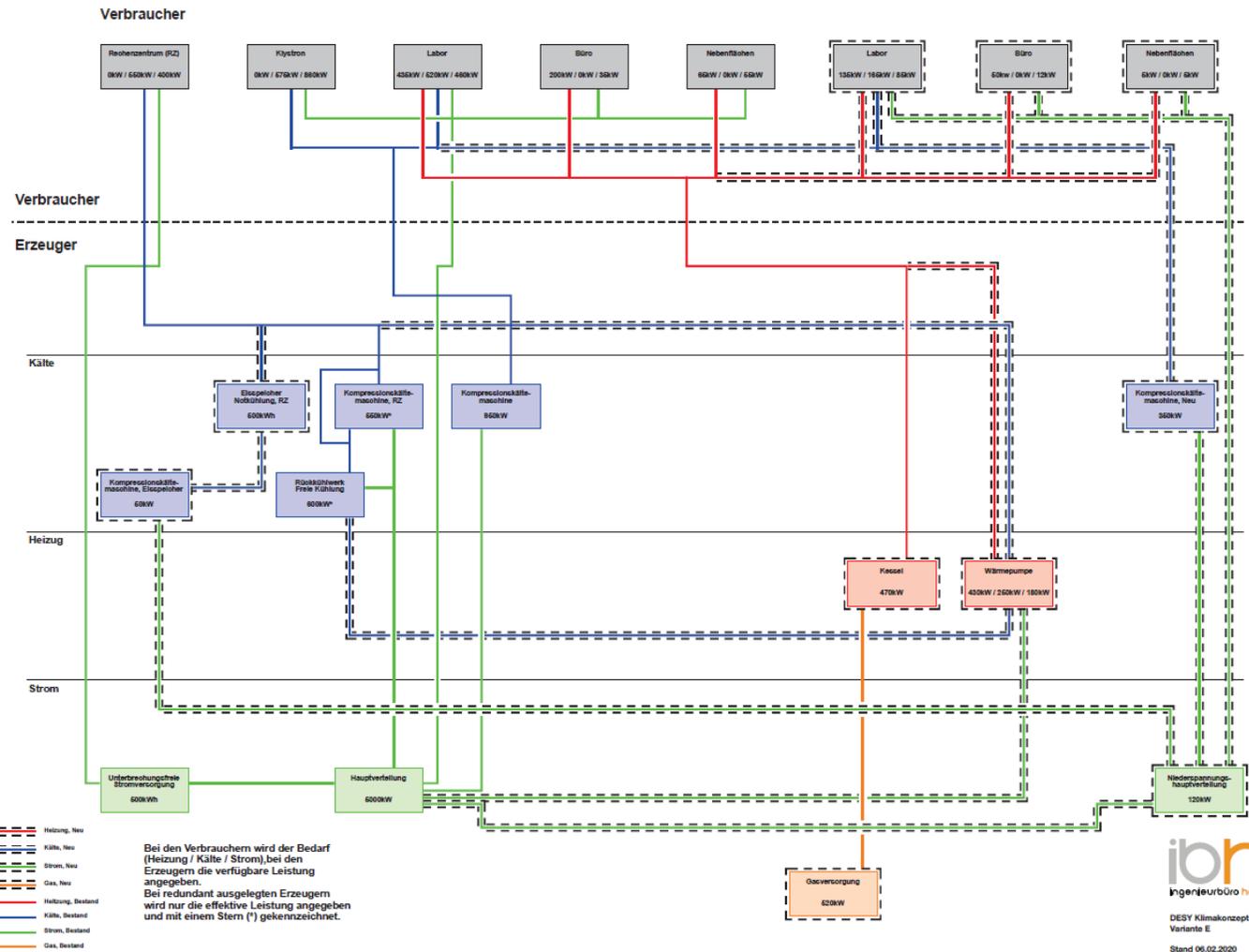
Energie concept

planning

- Waste heat recovery from data center
 - Heat pump replaces previous gas boiler, small gas boiler only for peak loads (redundancy)
 - Savings of 513t CO2
- 10 % of previous emissions
- Mainly electricity consumption,
- DESY buys 100% green power (from 2023)



Energie concept planning

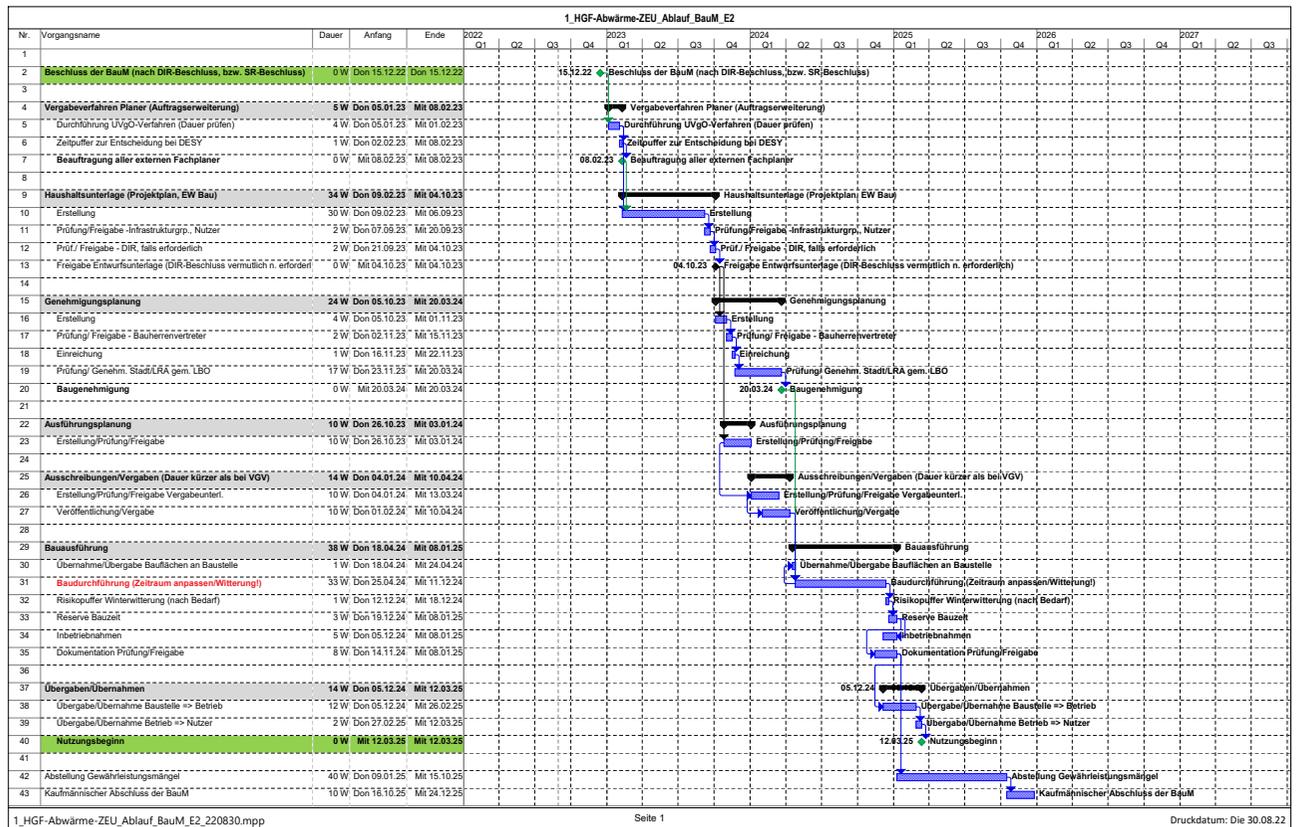


Energie concept

Status

- Application HGF processed and updated
- Costs just under 1 million € = no RZBau
- DIR decision 01.09.22
- Submission to Helmholtz 09.09.22
- Decision in November
- Project start begin 2023
- Start of use 1st Quarter 2025

→ Bridging of 2 1/2 heating periods !



CTA SDMC with canteen

Status

- Structural work approx. 3-4 months behind schedule
- new schedule: Completion by mid-March 2024
- Additional costs due to price increases
- 30% cost increases so far, additional costs unpredictable due to material price leverage clause



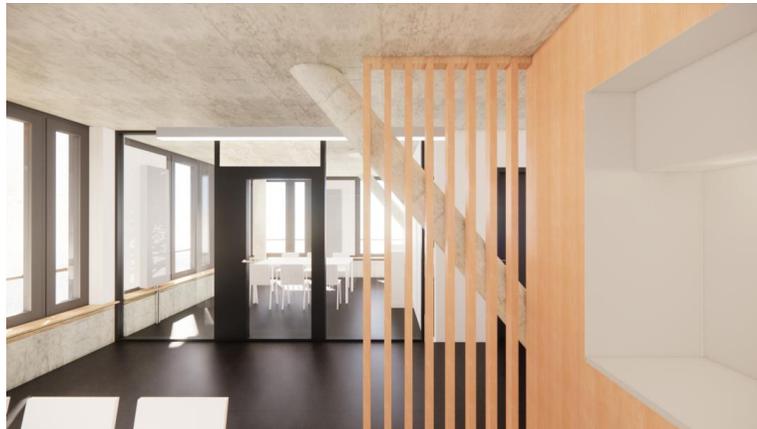
CTA SDMC with canteen

facade



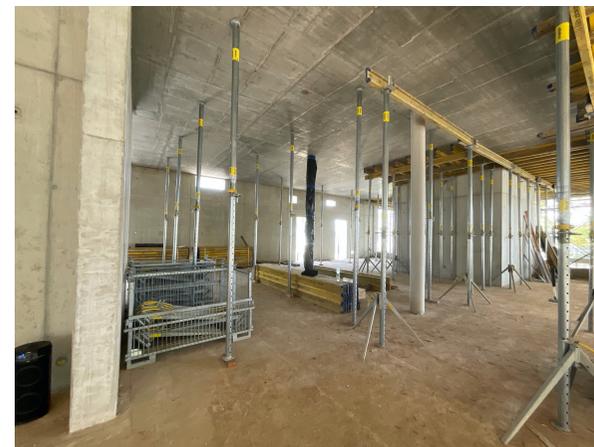
CTA SDMC with canteen

Communication zones



CTA SDMC und Kantine

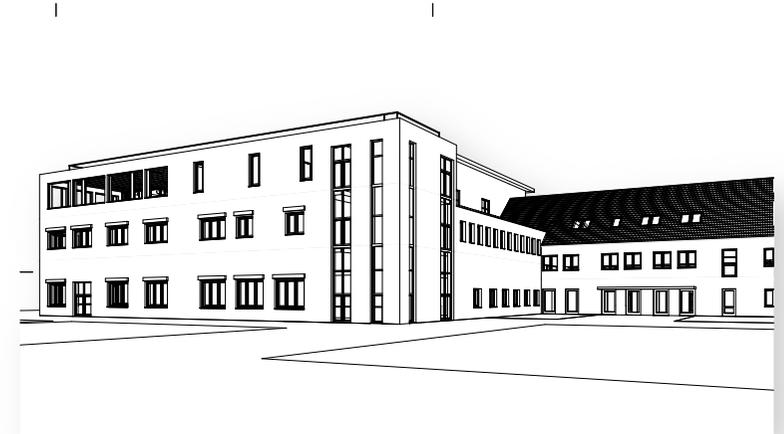
canteen



CTA functional extension

Status

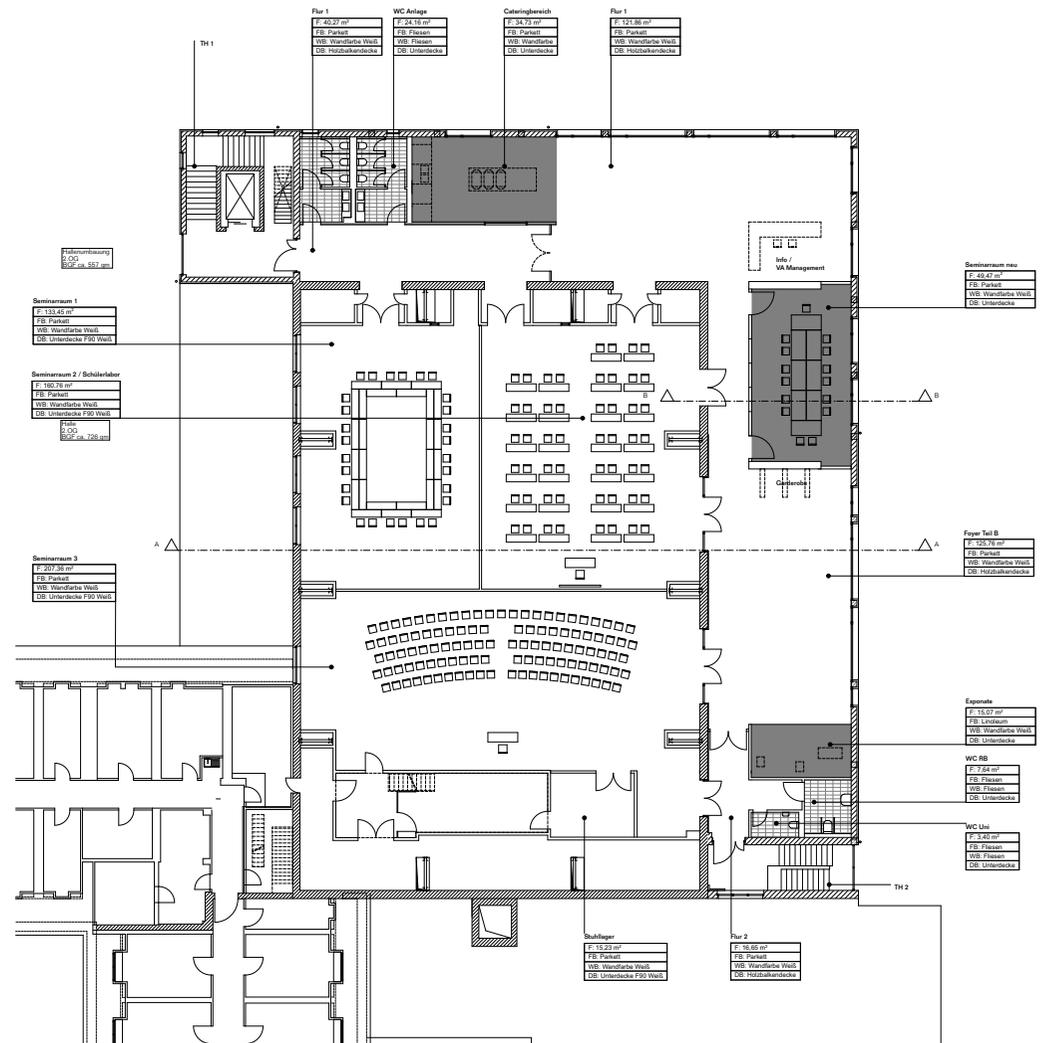
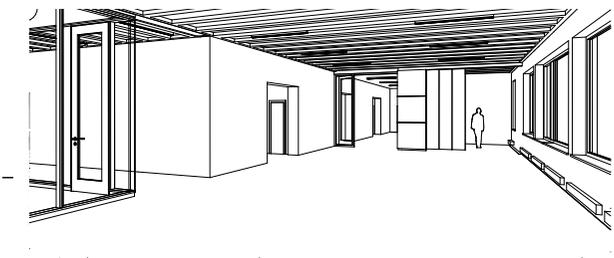
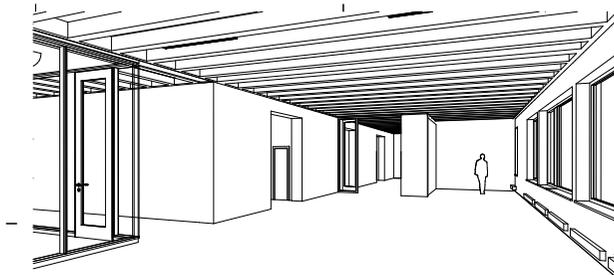
- ZBau application/ project application submitted in December
- Building permit has been issued
- Complete early start of measures approved, notification of funding still not received!
- Additional costs:
 - Reinforcement of supporting structure (statics insufficient)
 - Additional costs due to price increases
- Leads to cancellation of measures
 - priority on conference centre
 - priority on communication zones



CTA functional extension

Vision

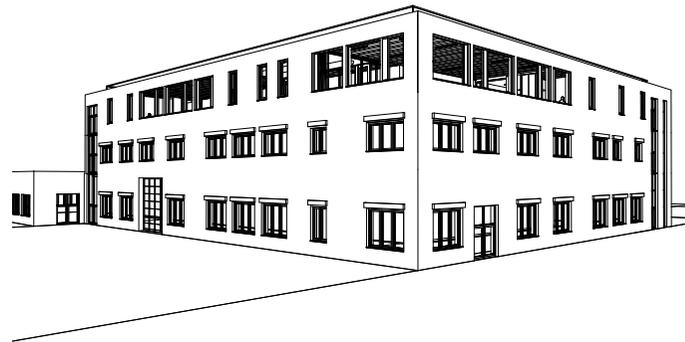
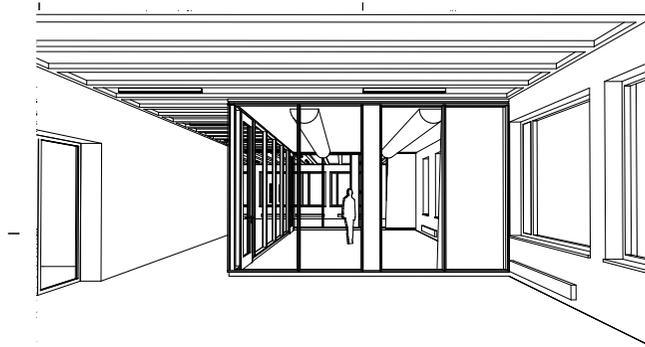
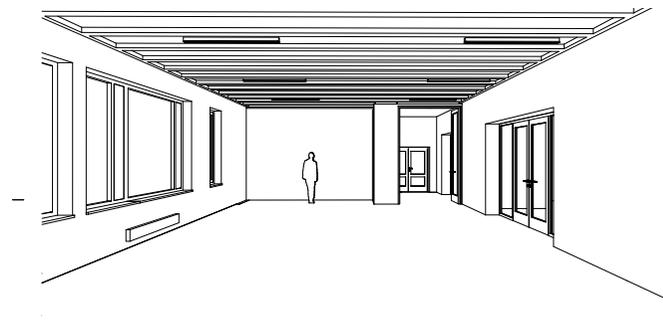
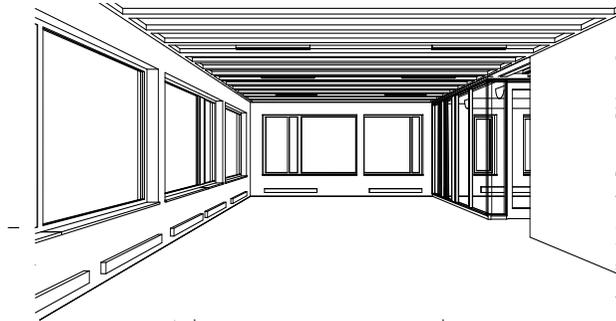
Conference centre



CTA functional extension

Vision

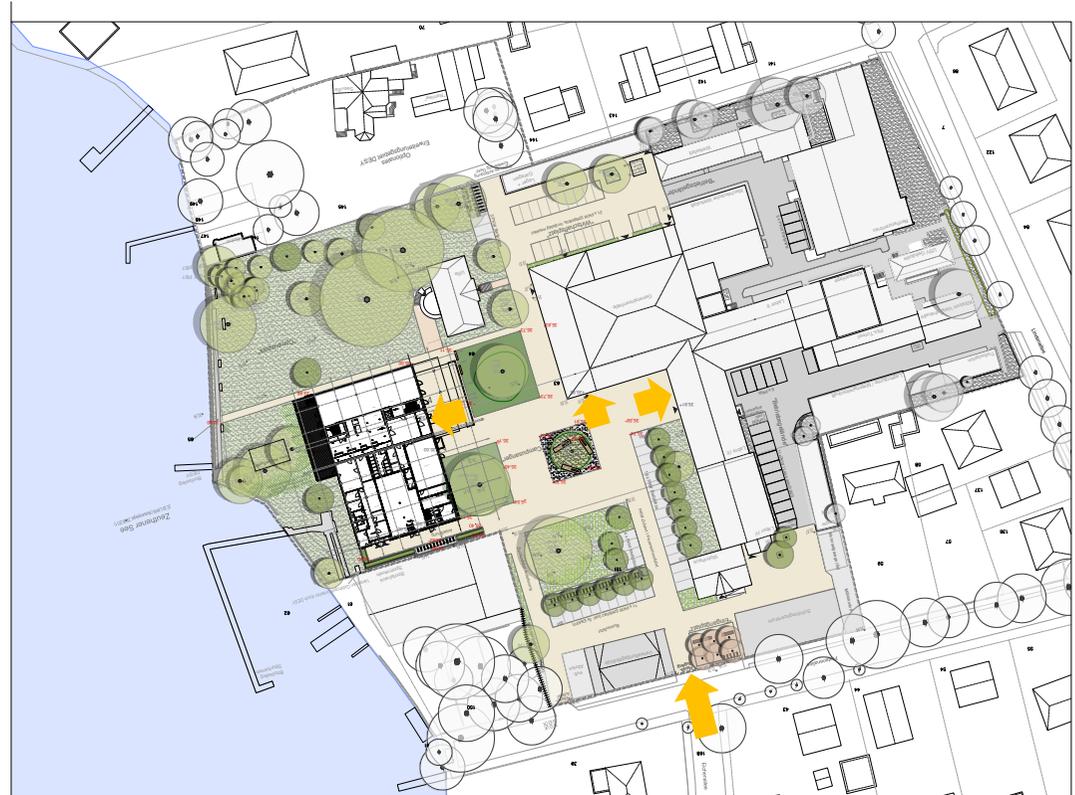
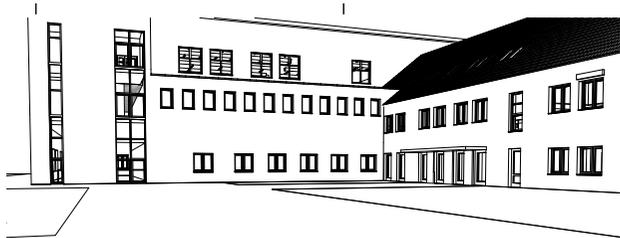
Conference centre



CTA functional extension

Vision

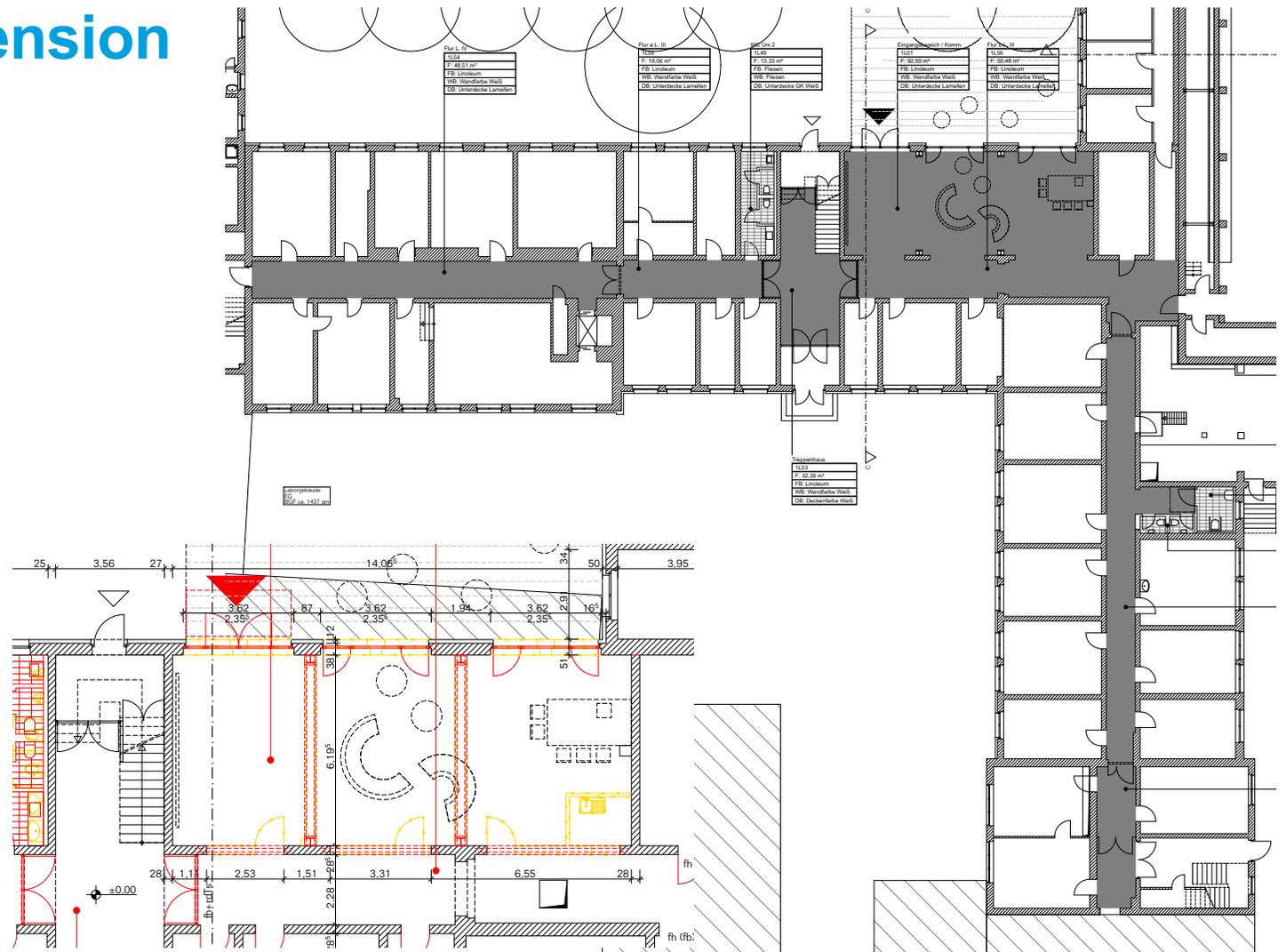
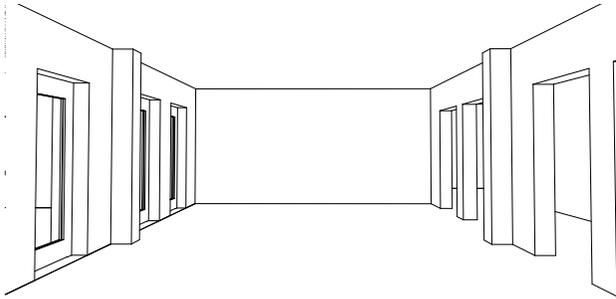
Campus square: new entrance situation



CTA functional extension

Vision

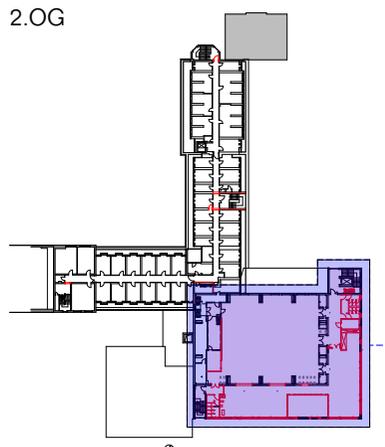
L-building: communication zones



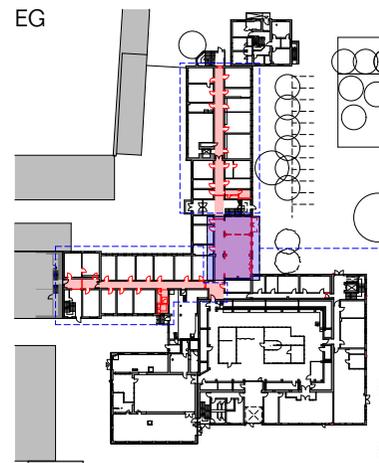
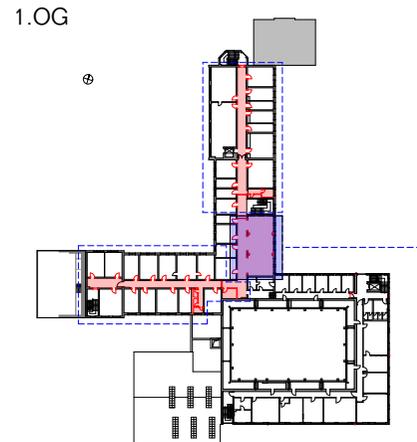
CTA functional extension

Construction phases

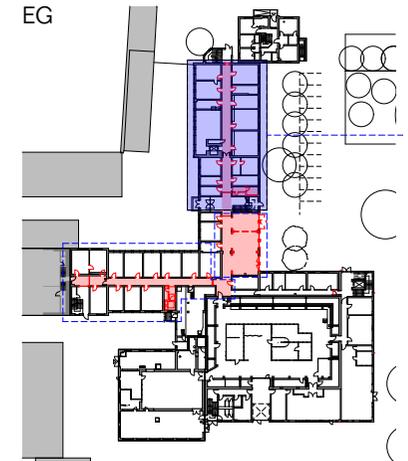
- Start construction mid Oktober 2022



Bauphase_1
10.22 – 02.23



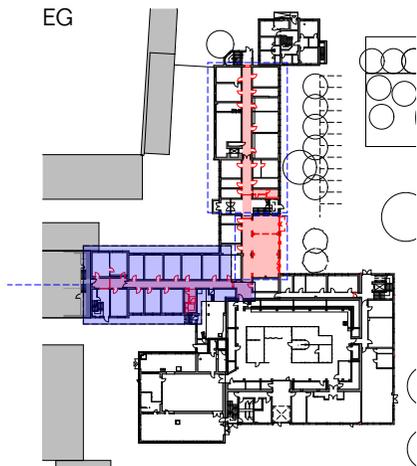
Bauphase_2
11.22 – 02.22



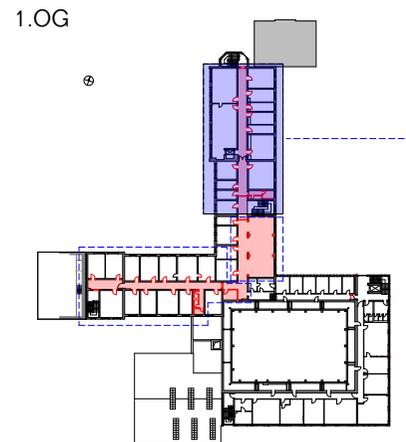
Bauphase_3
03.23 – 05.23

CTA functional extension

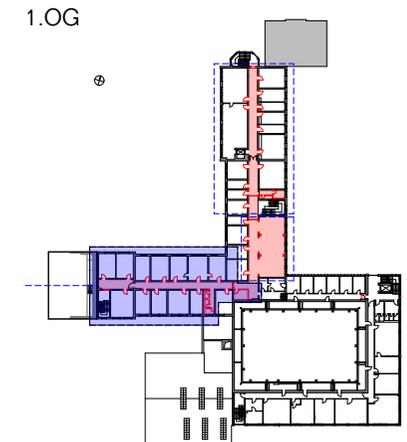
Construction phases



Bauphase_4
05.23 – 06.23



Bauphase_5
07.23 – 08.23



Bauphase_6
08.23 – 10.23

CTA functional extension

Construction work has started....



Spatial planning Campus

Spatial Planning Campus

Possible end scenario

Ground floor

-  RZ
-  V4
-  Elektronik
-  Konstruktion
-  KOM
-  PITZ
-  Betriebsrat
-  QuantumLab

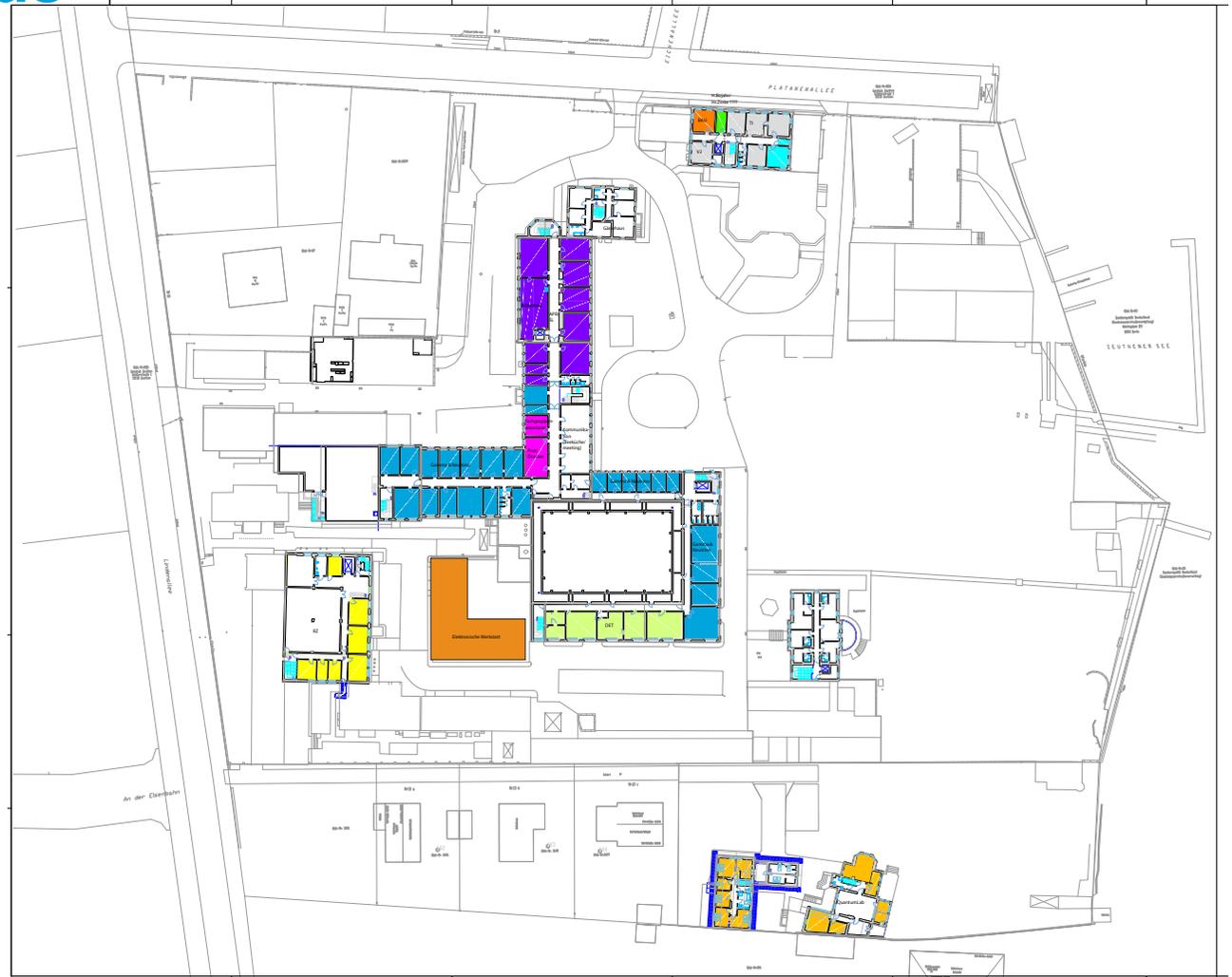


Spatial Planning Campus

Possible end scenario

1st floor

-  V3
-  TI
-  BAU
-  Standortleitung
-  Gamma/ Neutrino
-  KOM
-  DET
-  Elektronische Werkstatt
-  QuantumLab
-  RZ



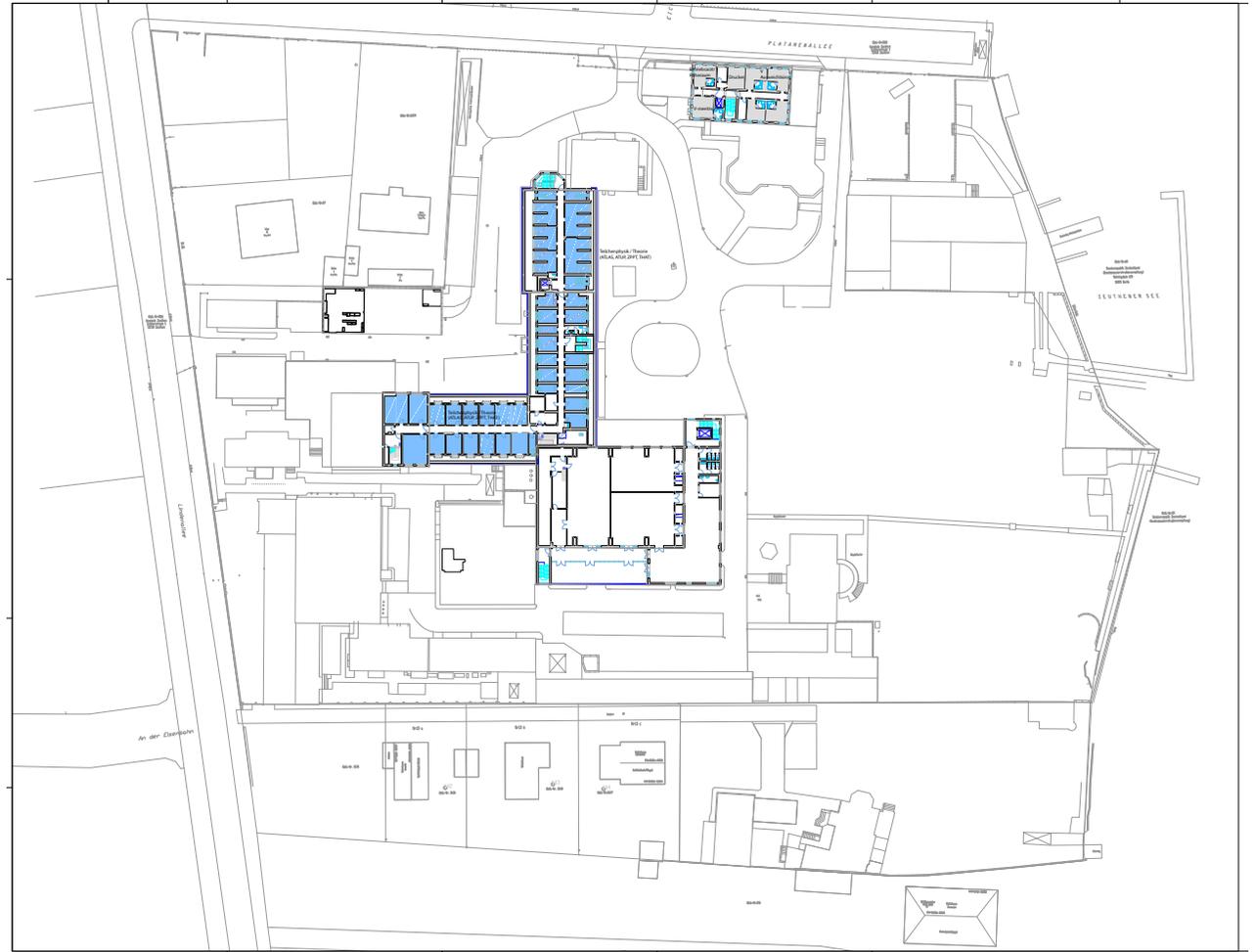
Spatial Planning Campus

Possible end scenario

2nd floor

■ Teilchenphysik, Theorie (ATLAS, ATUP, ZPPT, THAT)

■ various



How do we get there...

Spatial Planning Campus

1st phase – until mid October

Ground floor

-  Gamma/ Neutrino
-  Betriebsrat
-  Konstruktion



Spatial Planning Campus

1st phase – until mid October

1st floor

 Gamma/ Neutrino

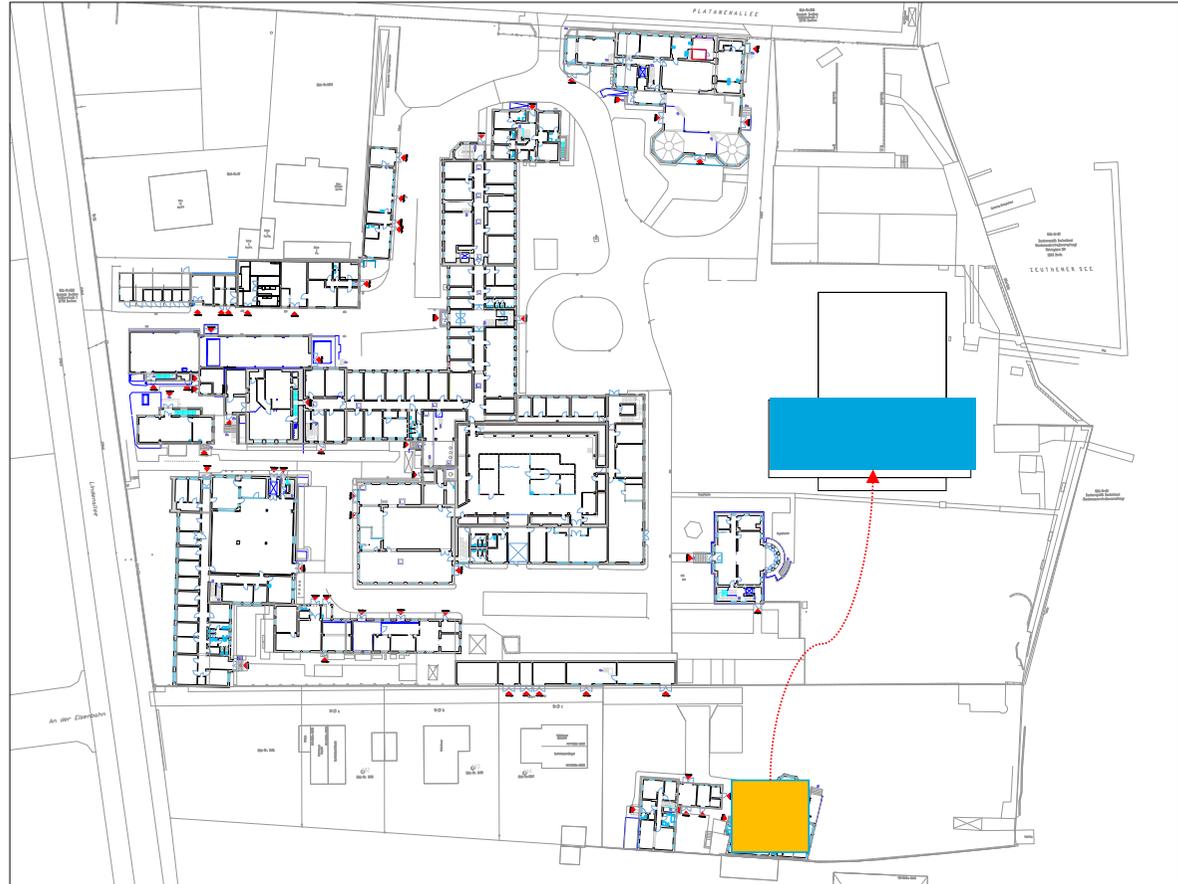


Spatial Planning Campus

2nd phase – 2024

Ground floor

-  Gamma/ Neutrino
-  QuantumLab



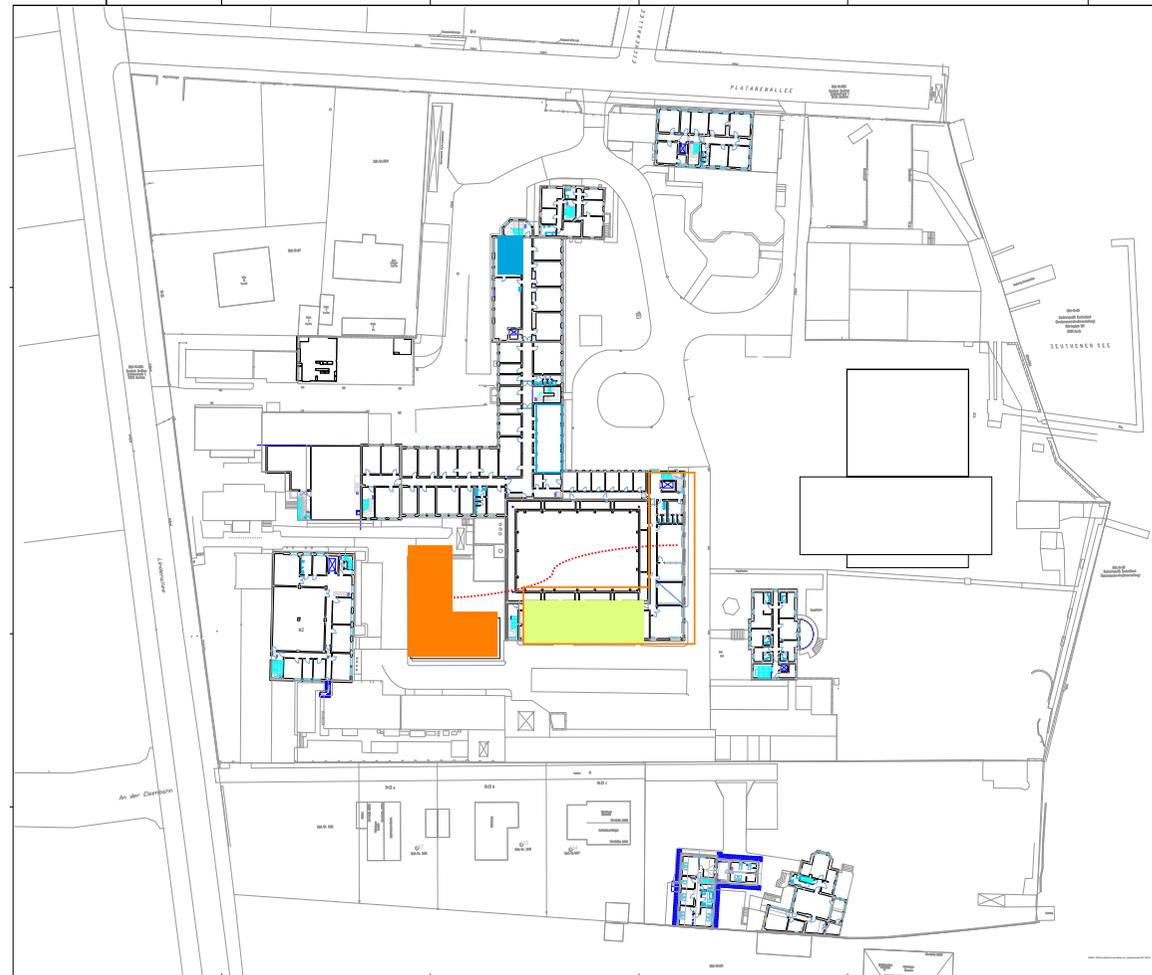
Spatial Planning Campus

3rd phase – 20??

1st floor

 Elektronische Werkstatt

 DET



**Nothing is completely
solved....**

...please be patient....

...we need to be flexible....

**...if there are any
questions don't hesitate
to ask, please do so....**

**...thanks for your
understanding I know we
ask a lot from you.**