

kantonsspital aarau

project report

Wednesday | June 25th 2025 | Regensburg

wörner traxler richter

Innovative Krankenhausplanung — „Rückblick, Aufbruch, Zukunft gestalten“ 24.-25. Juni 2025

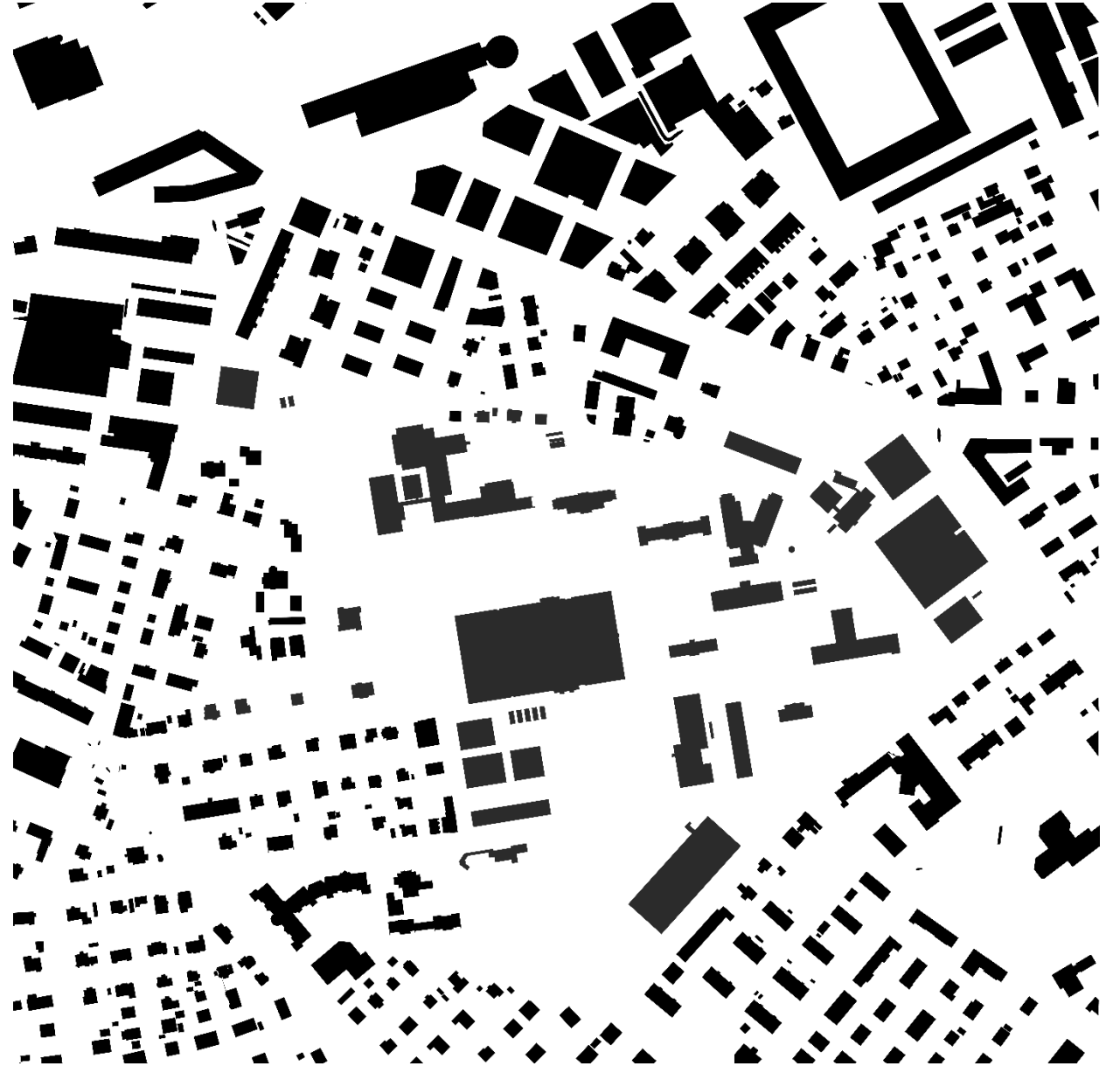
kantonsspital aarau

new building

architecture | ARGE B+P/ wtr - wörner traxler richter + Burckhardt Architektur

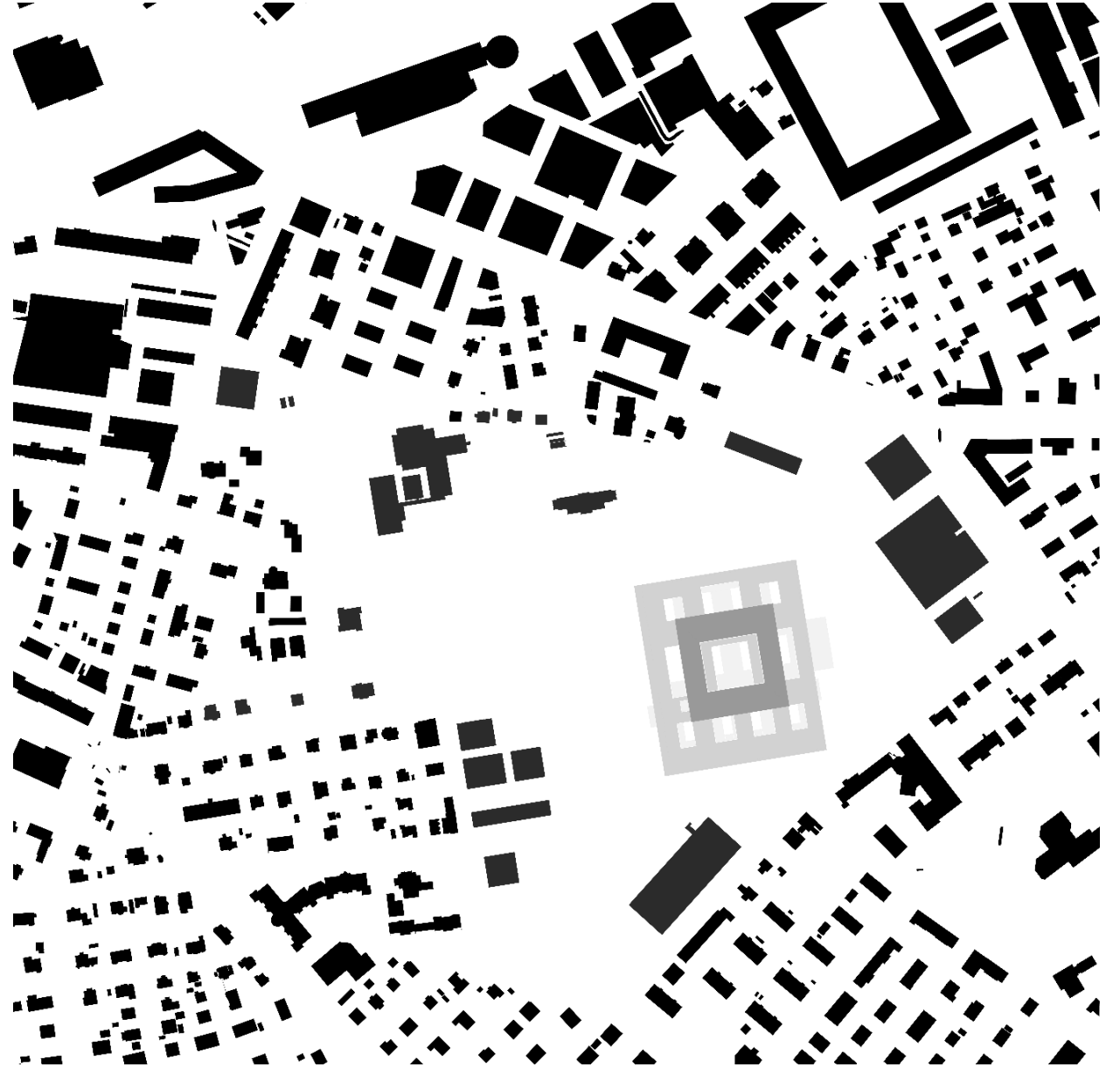
wörner traxler richter

urban context



initial situation

urban context



proposal

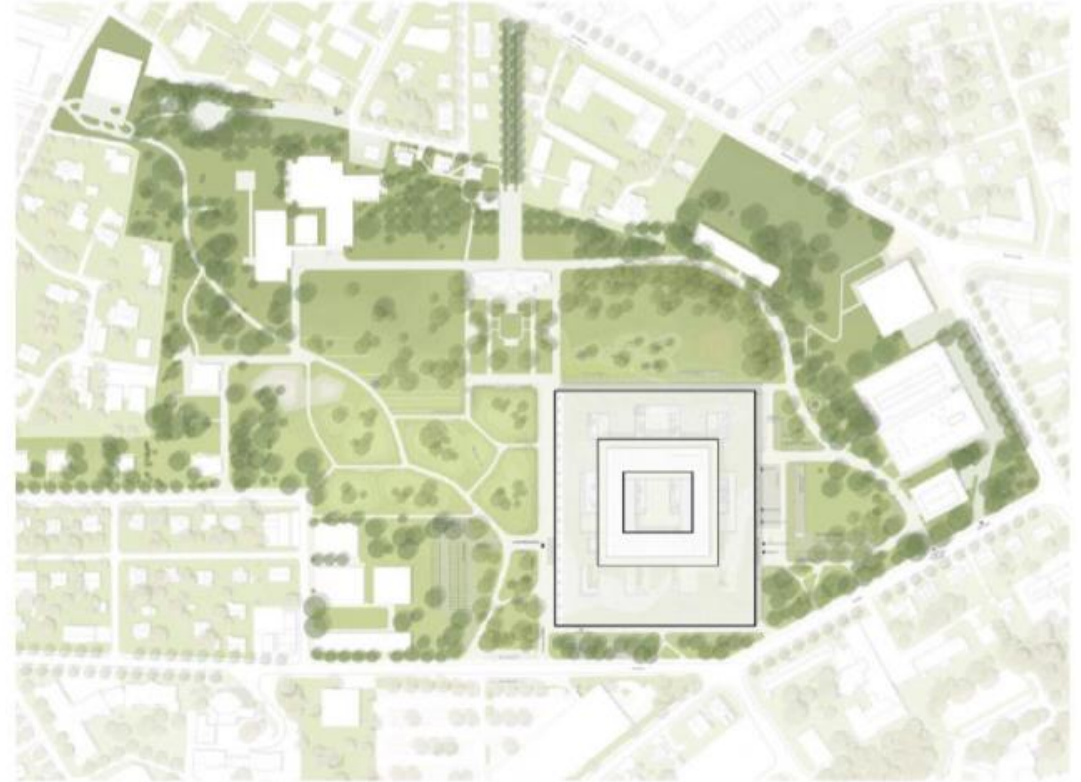
urban context



in the park

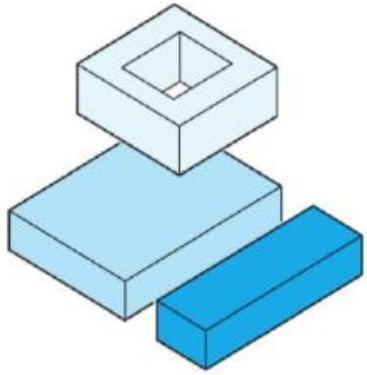


before:
heterogeneous hospital structures in a divided park area



after:
main hospital building in a spacious park setting

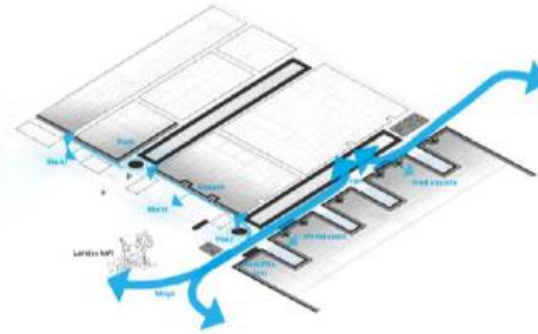
guiding principles



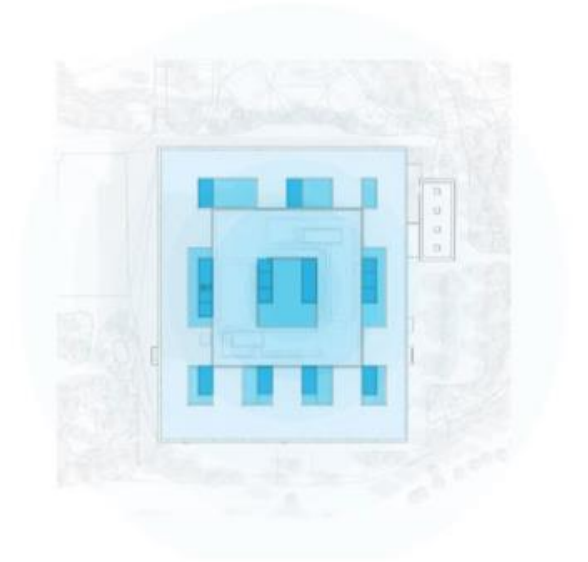
triad



landscape / park

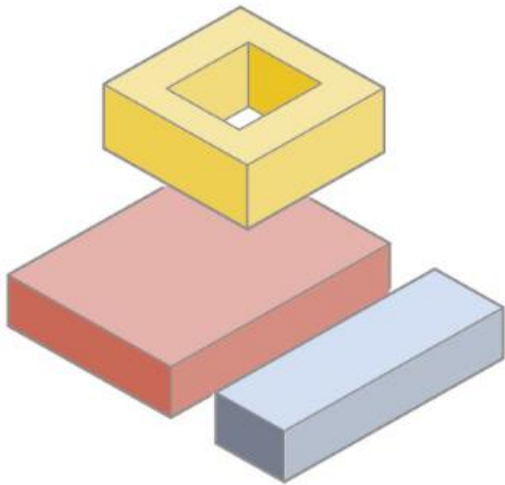


street - like

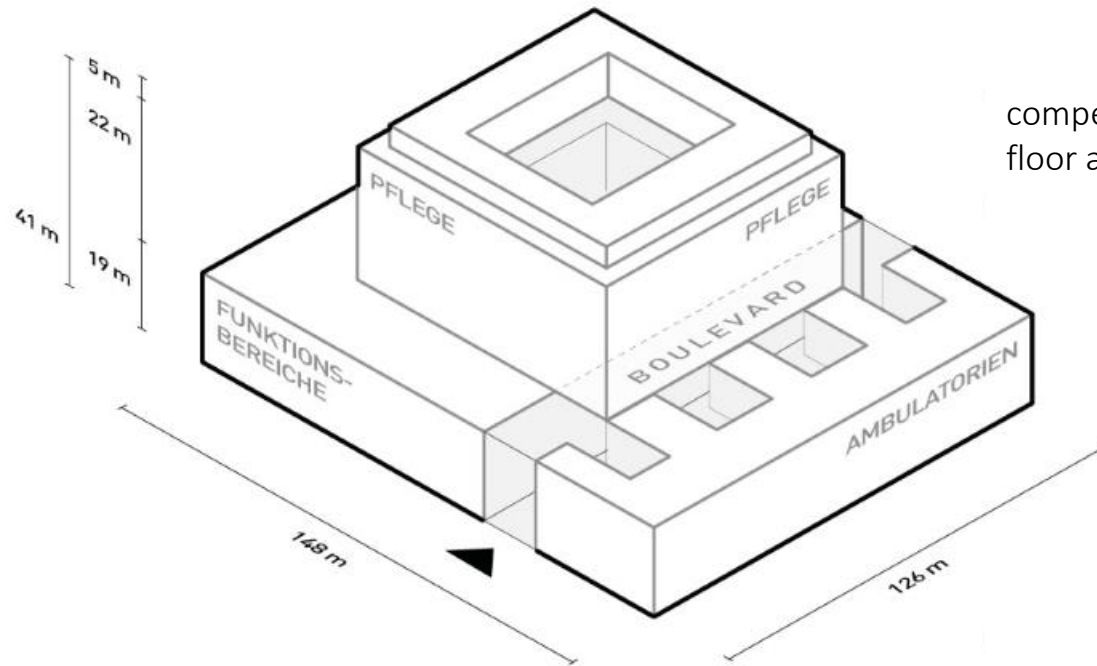


city - like

structure



triad



competition / win
floor area

april 2019
about 110.000 sqm

472 beds
130 day beds
18 OR
5 MRI
3 CT

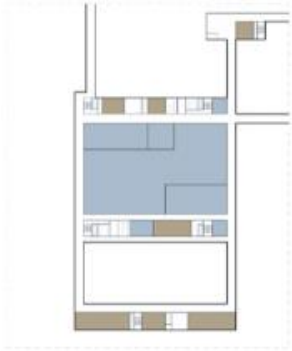
planning application
groundbreaking cer.

31. july 2020
08. april 2022

completion / handover

end of 2025 / 26

function



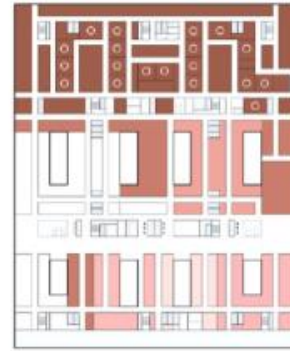
UG -2



UG -1



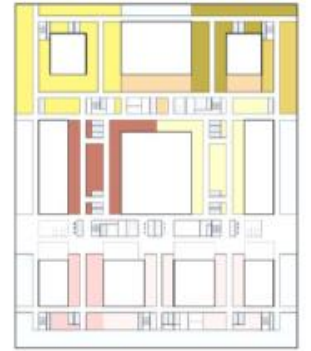
Ebene 00



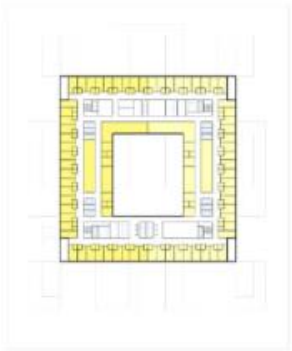
Ebene 01



Ebene 02



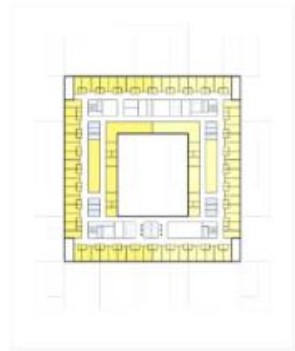
Ebene 03



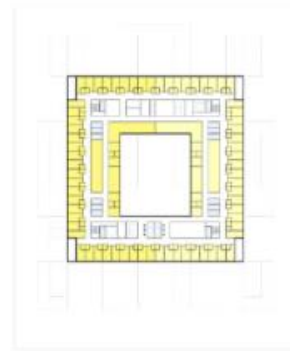
Ebene 04



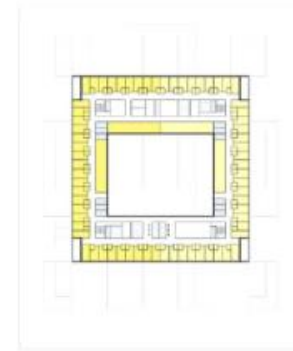
Ebene 05



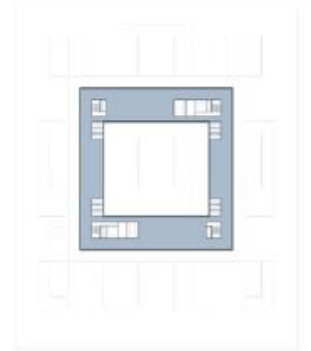
Ebene 06



Ebene 07



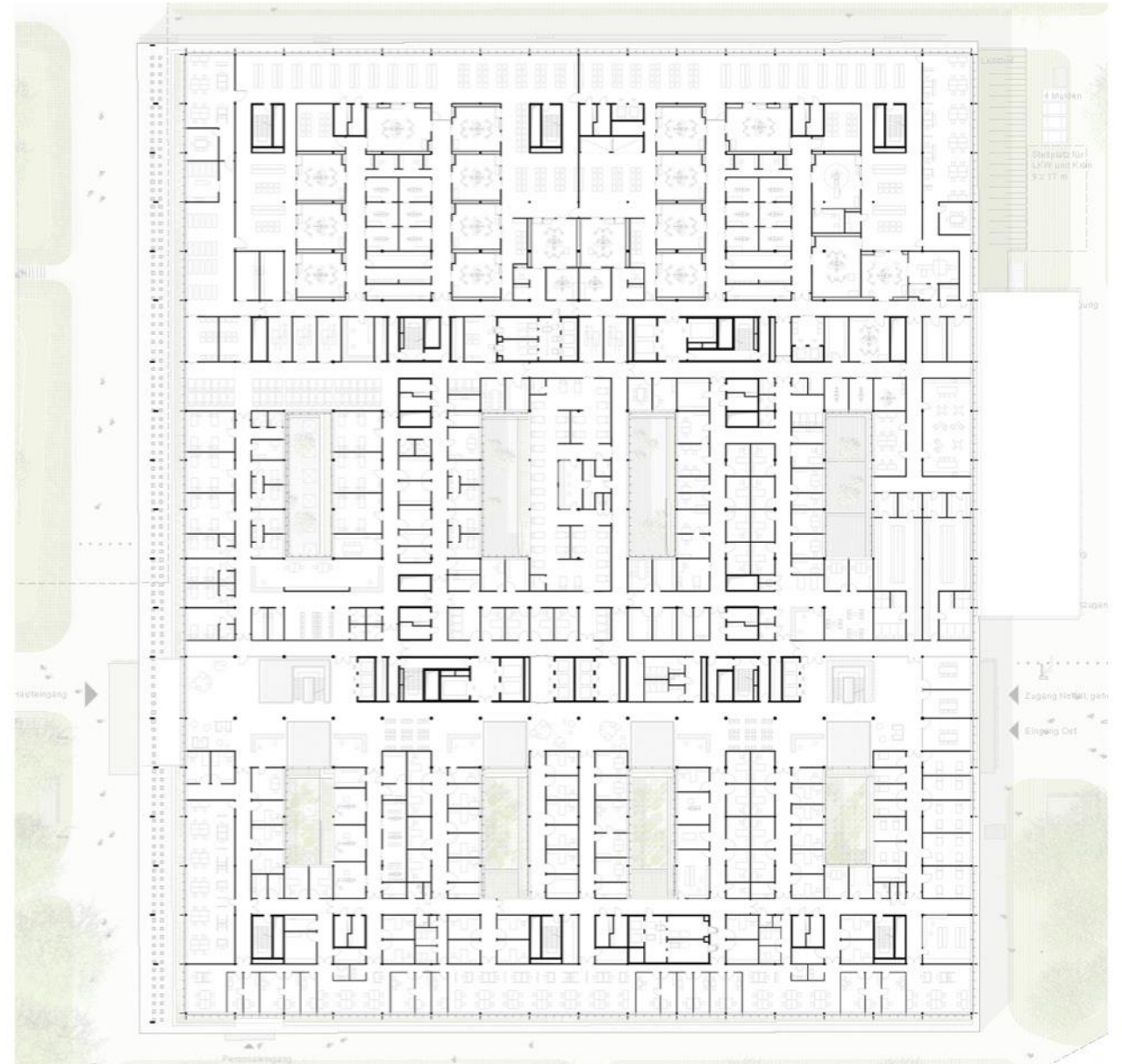
Ebene 08



Ebene 09

op-geschoss

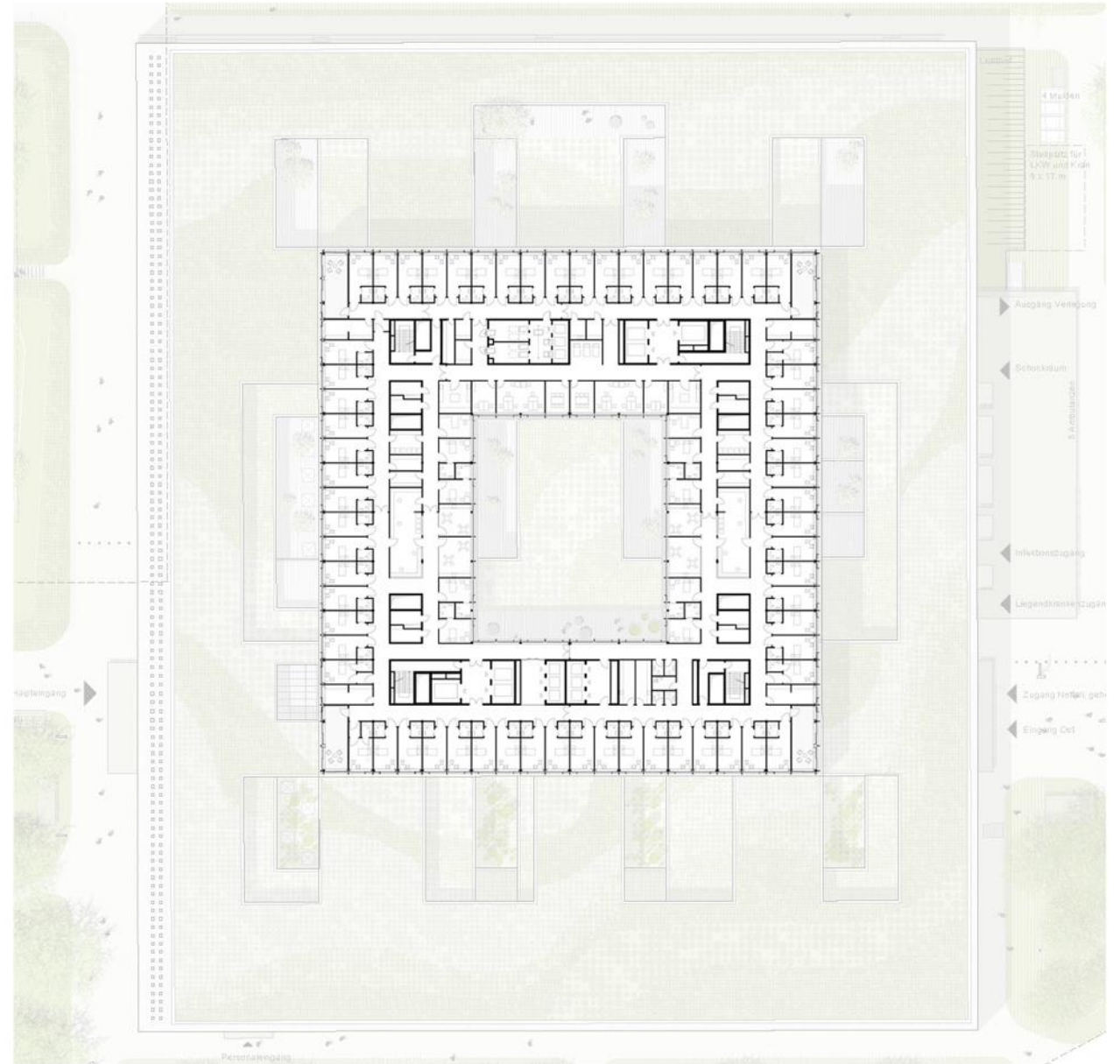
Im ersten Oberschoss sind die High Care Funktionalitäten auf einer Ebene idealtypisch zusammengefasst. Auf der stationären Seite im Norden befindet sich der Zentral-OP. Im Süden entlang des Boulevards befinden sich alle ‚chirurgischen‘ Ambulatorien. Dazwischen, unmittelbar oberhalb der Haupteinschliessung ist die Austauschzone mit SDS und Tageskliniken verortet.



pflegegeschoss

Die Pflegeebenen sind durchgängig nach dem selben Grundprinzip aufgebaut. Es wird eine reine 1-Bett-Zimmer Struktur etabliert, die sich in unterschiedliche Pflegegruppen aufteilen lässt.

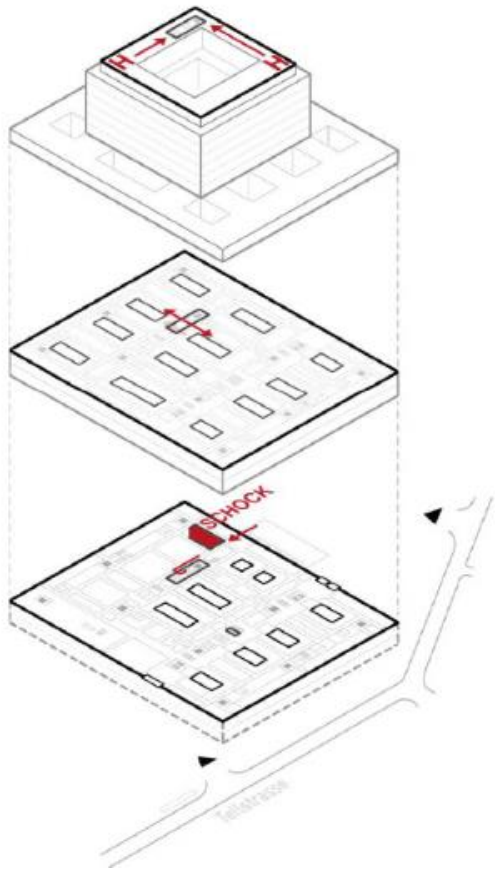
Alle Patientenzimmer sind an der freien umlaufenden Aussenfassade mit Blick in die Landschaft und den Park angeordnet.



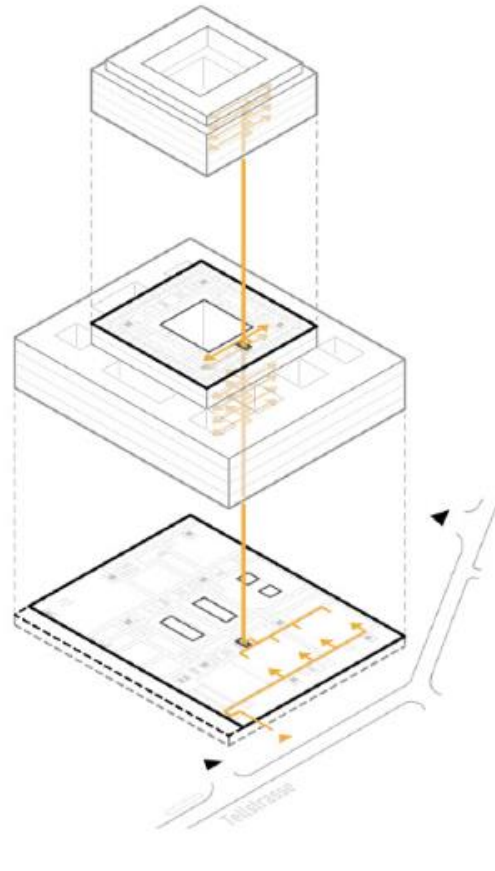


wörner traxler richter

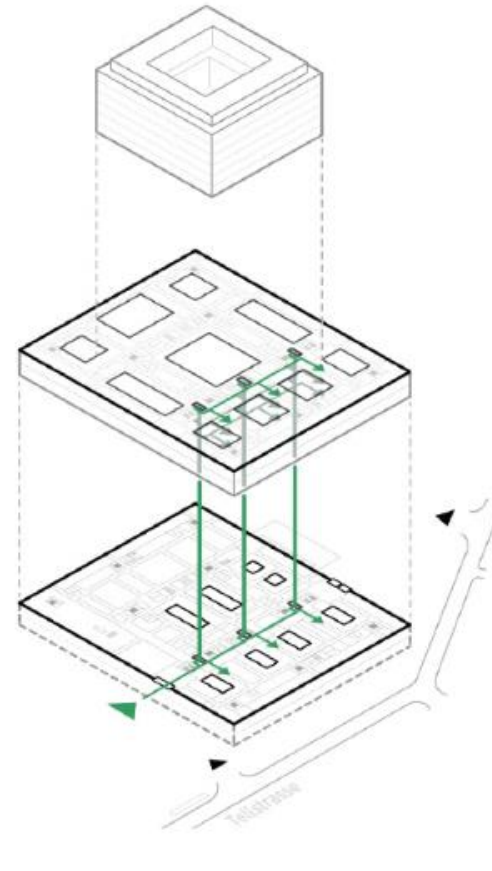
access



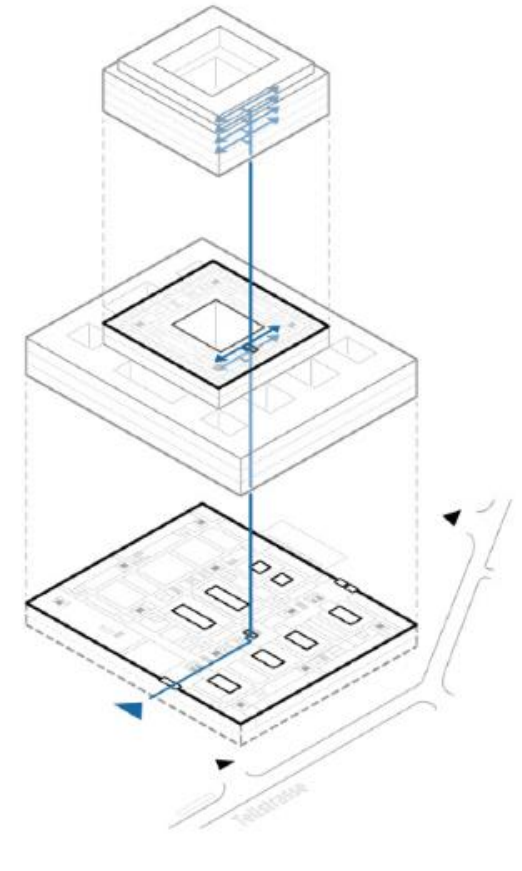
emergency



wards



outpatient



staff





facade materials

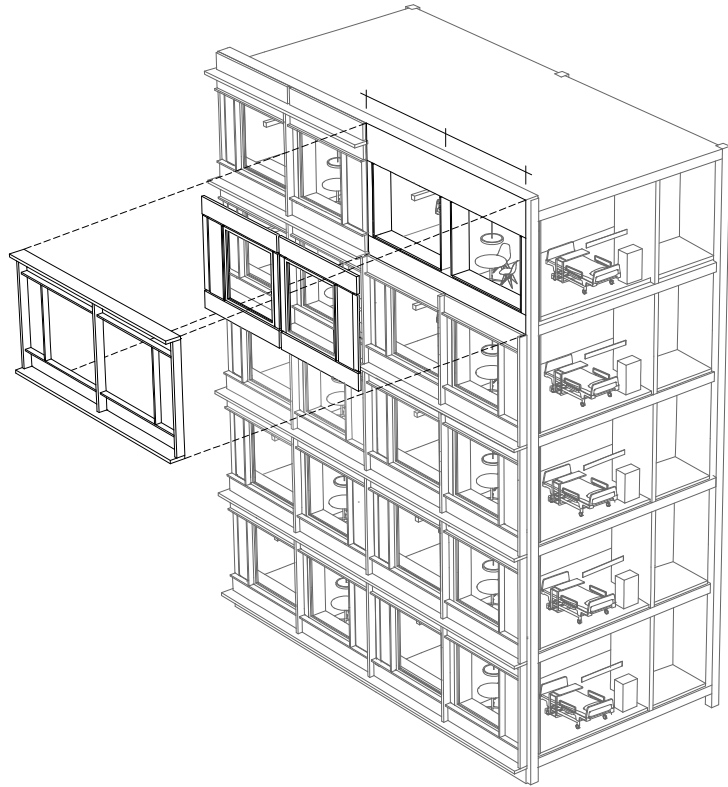


concrete

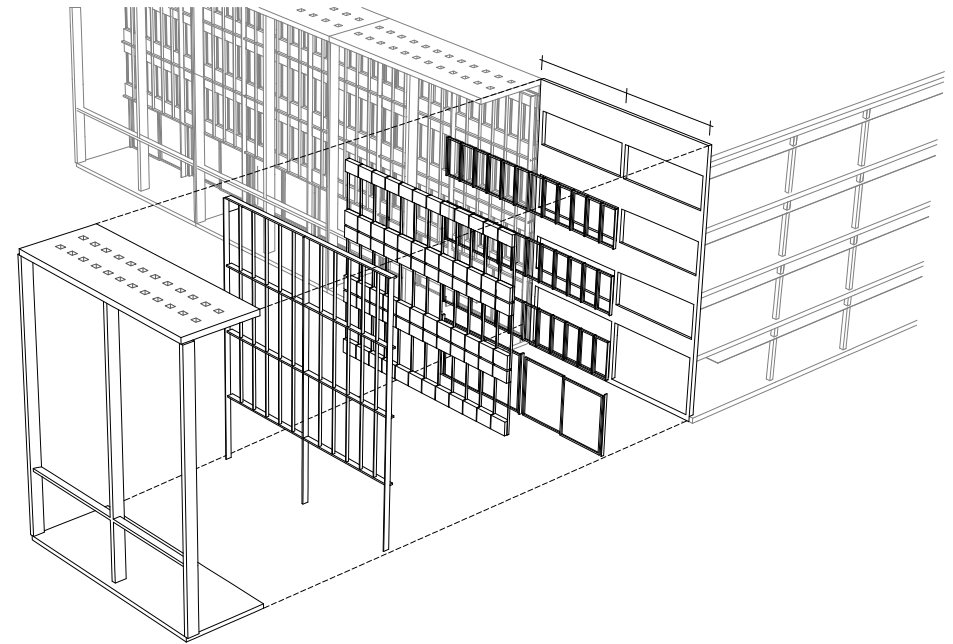
Eloxal

interior

facade

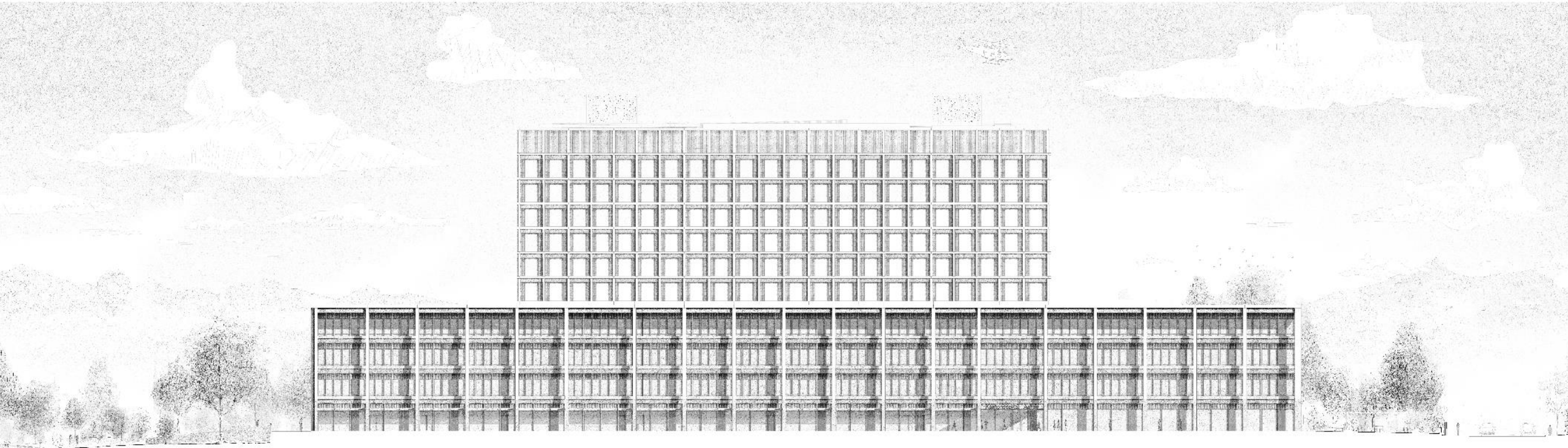


inpatient top floors

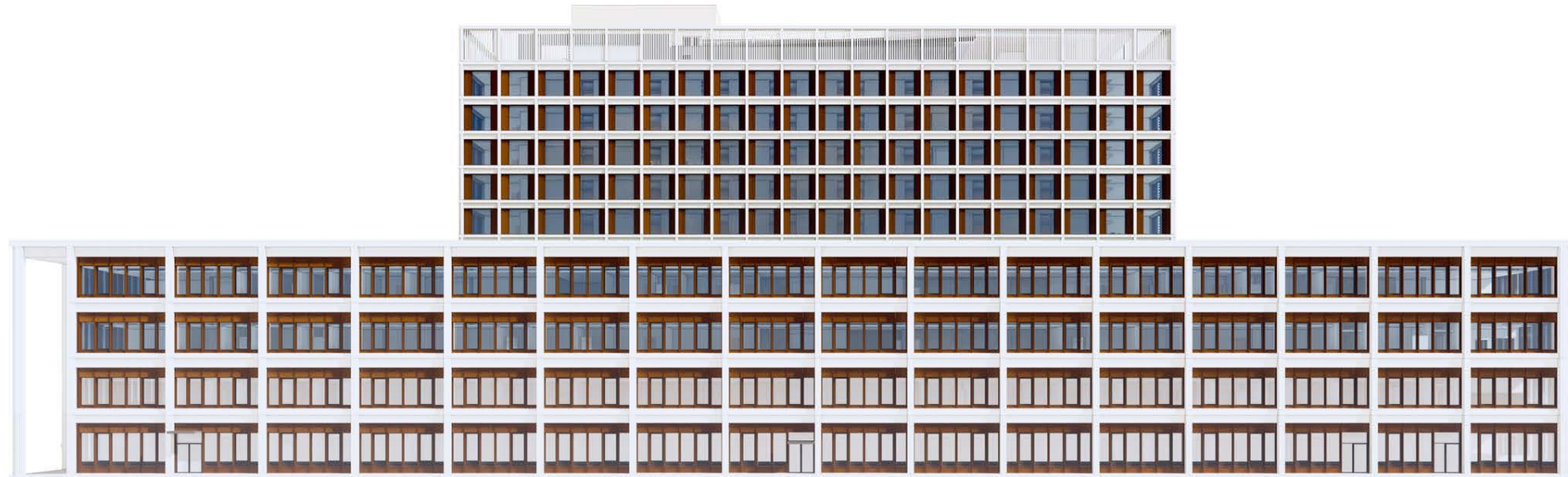


base

facade



facade



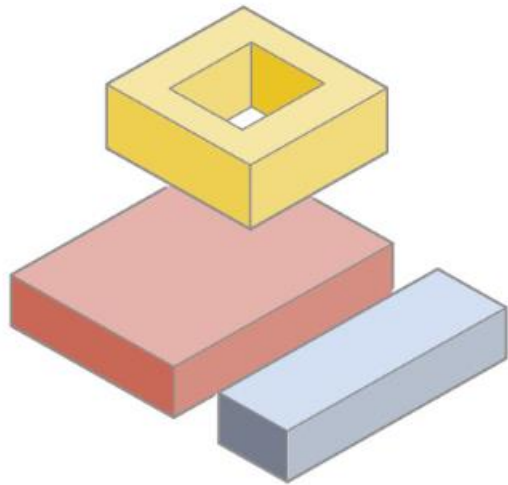




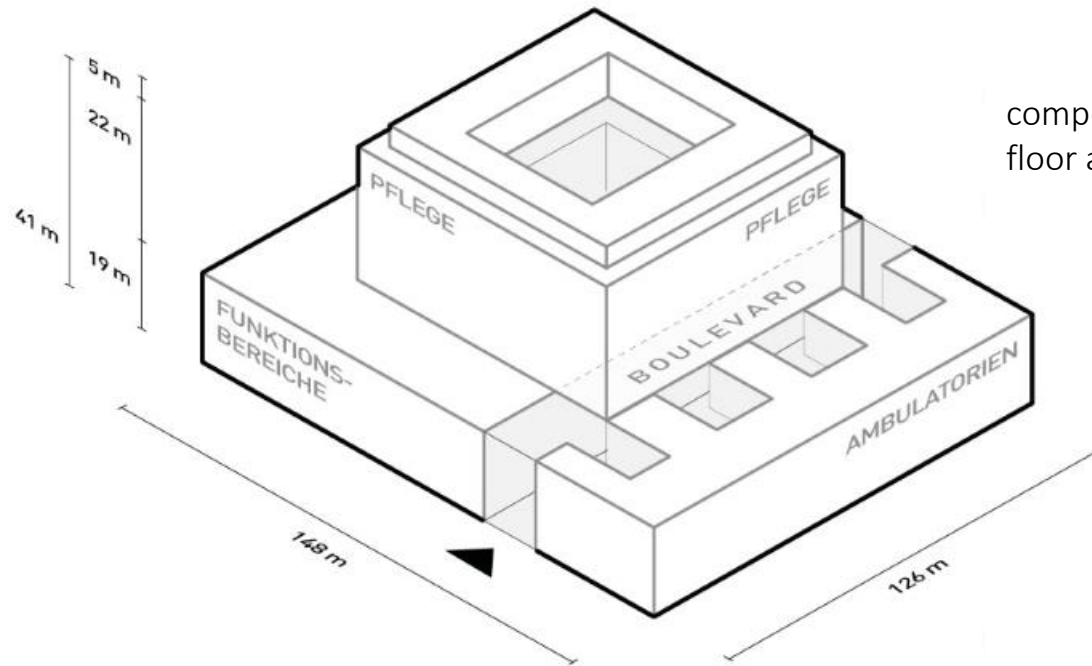




how to ...



triad



competition / win
floor area

april 2019
about 110.000 sqm

472 beds
130 day beds
18 OR
5 MRI
3 CT

planning application
groundbreaking cer.

31. july 2020
08. april 2022

completion / handover

end of 2025 / 26

total contractor - setting

cost, quality and deadline certainty

only one contact person and therefore fewer interfaces and coordination effort for the client
turnkey implementation and planning responsibility lie with the total contractor - planning and implementation expertise from a single source
clear assignment of responsibilities in warranty cases



digital planning - full service competition

2 phased competition

dialogue process including user feedback

full team for planning

comprehensive engineering and BIM-work for
costs, scheduling, and construction

additional advantages

training in digital planning and team work during competition

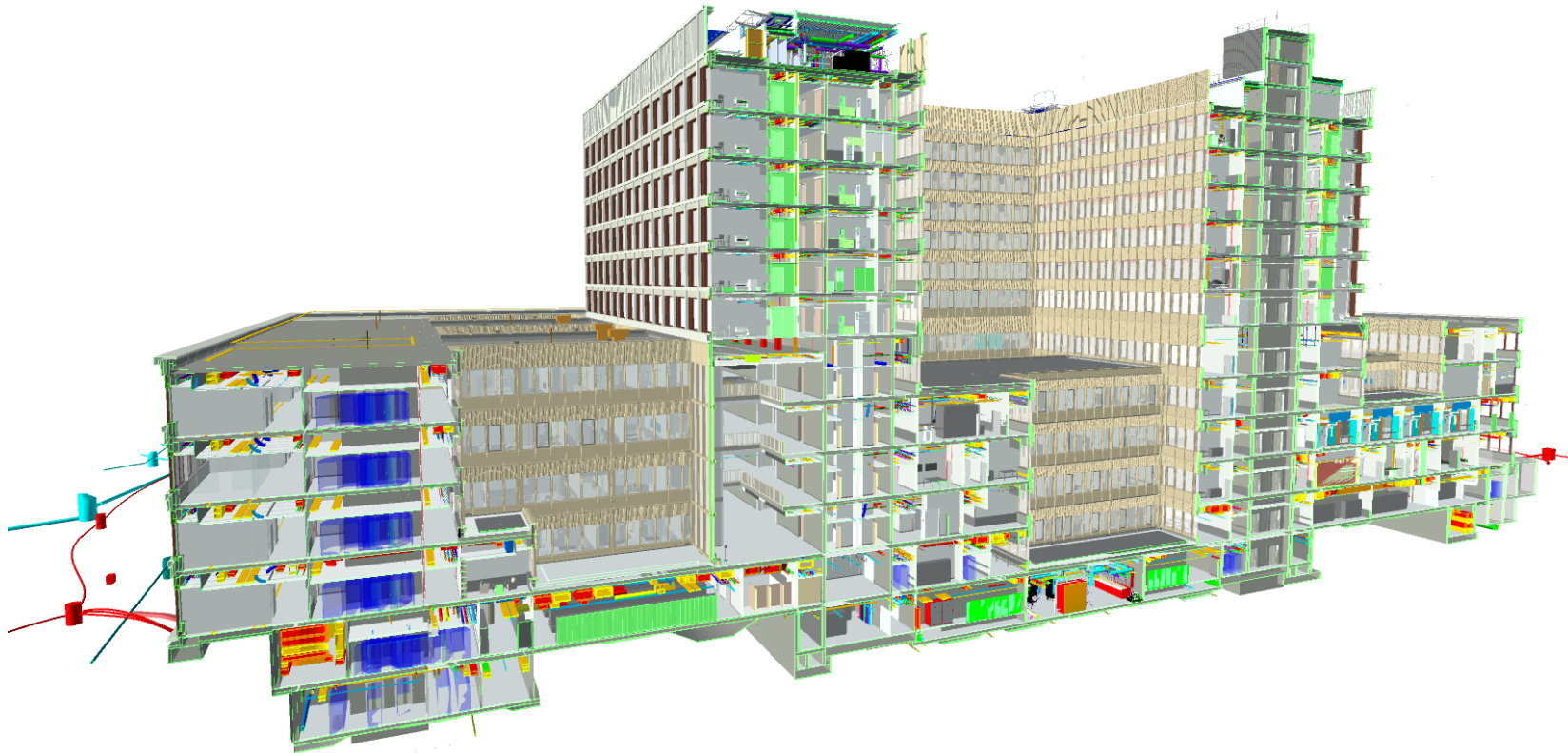
fluent use of digital tools and processes with win of competition

a team ready to go on the journey to completion



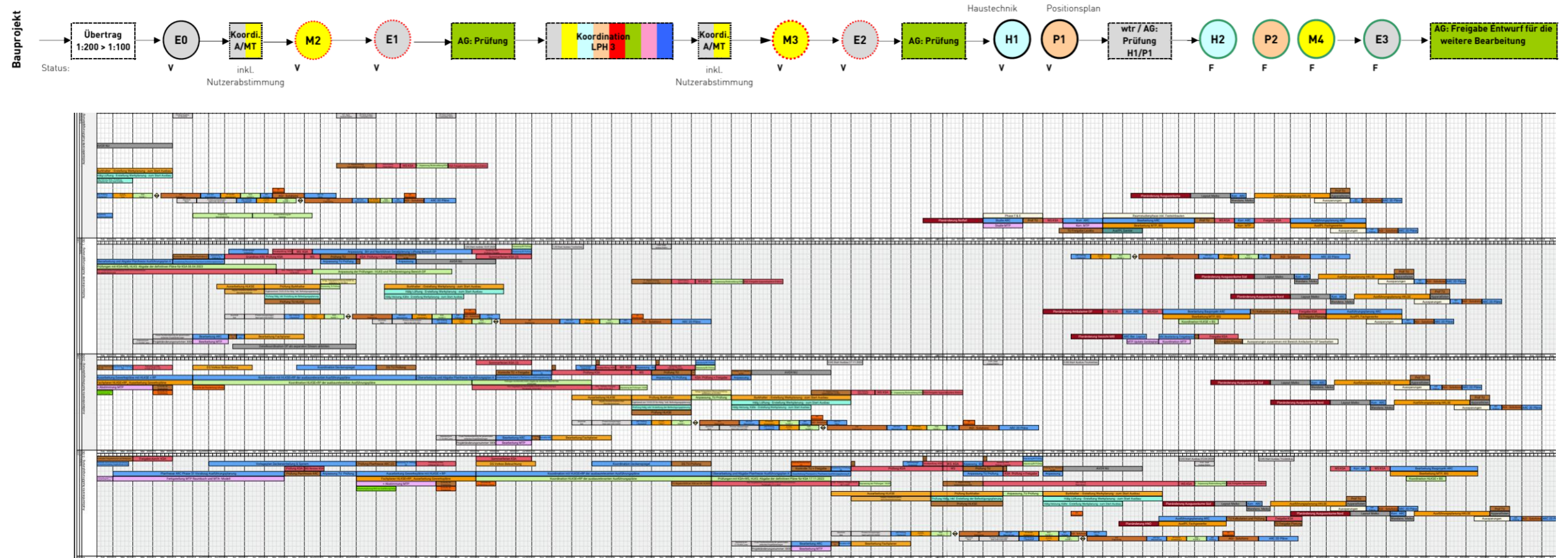
digital planning - tools for all purposeses

cde, coordination, and communication
to achive this you get to use all of that (and more)



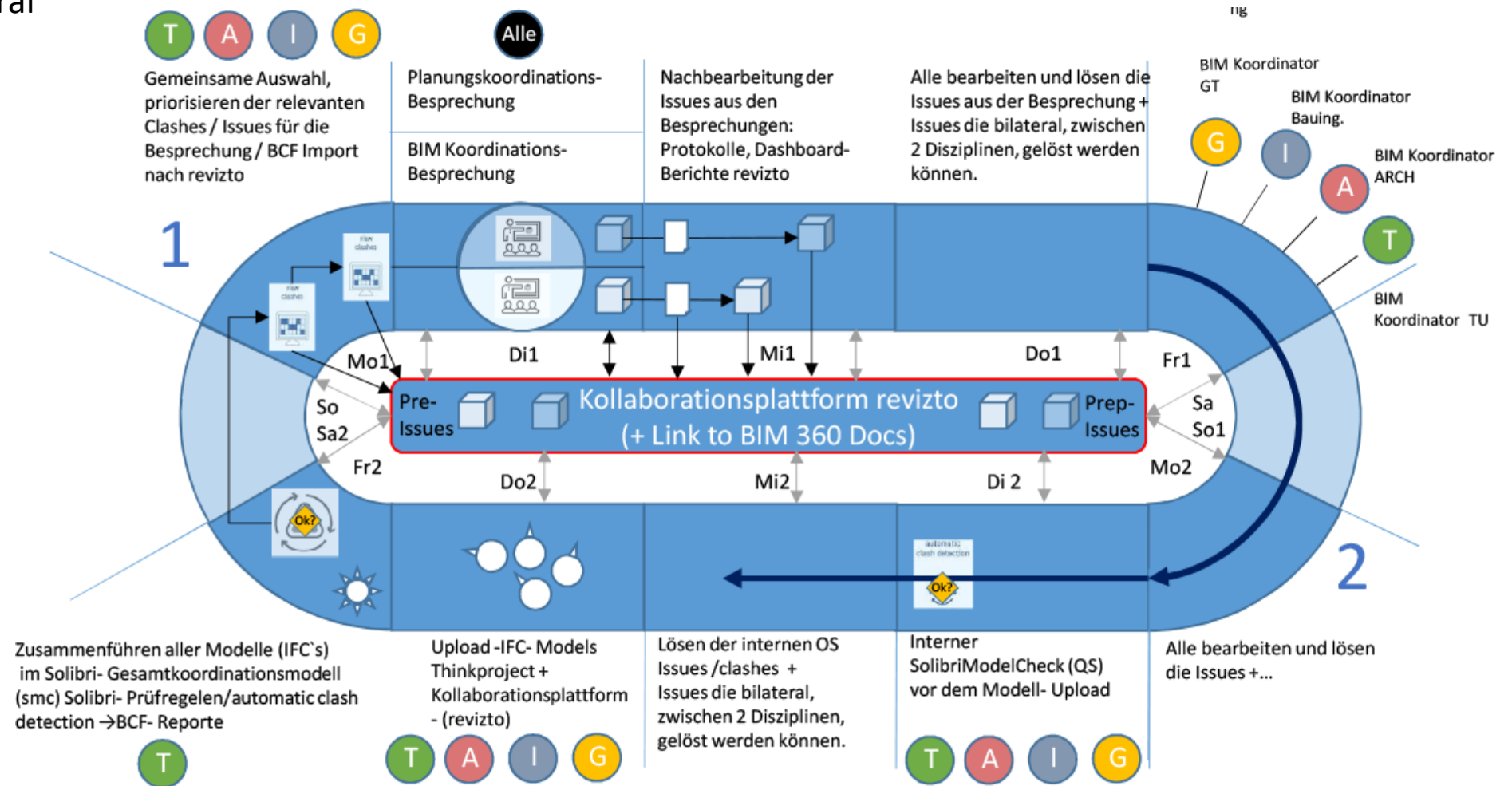
digital planning - planning process

the planning process - or „perl necklace“ as we call it
in lean construction / lcm schedule



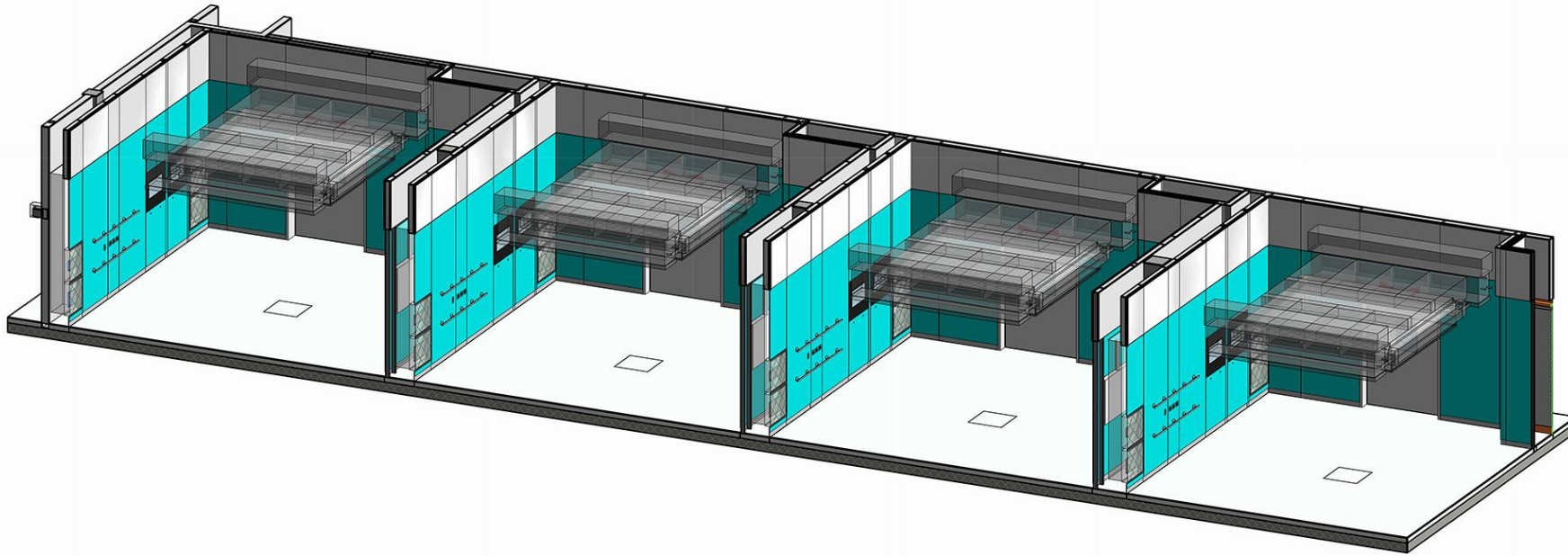
digital planning - planning process

open bim in general
Ifc every 2 weeks

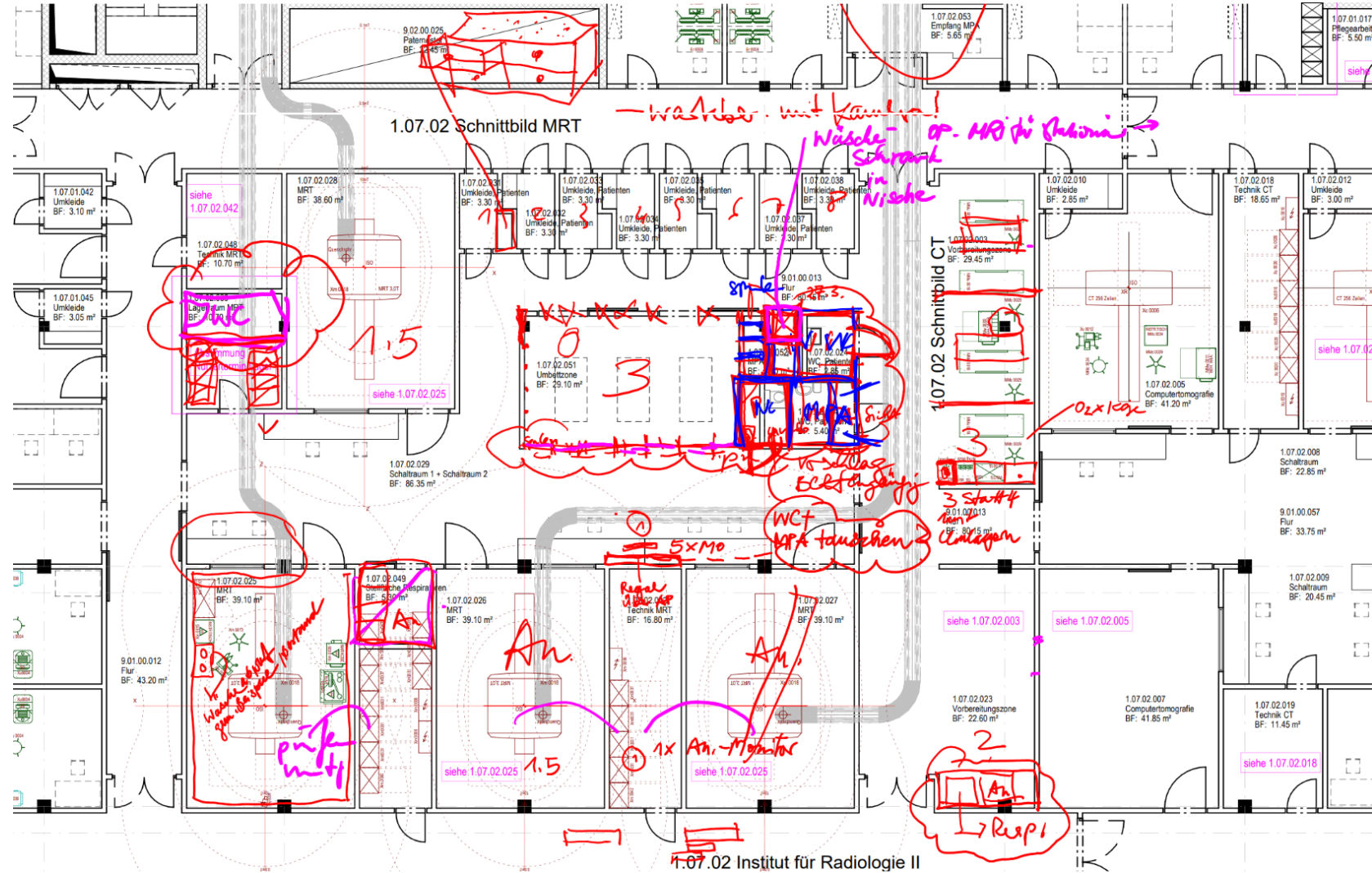


digital planning - planning process

closed bim in parts e.g. ORs / ht group
real time exchange



a mix of tools
from 2-D plans



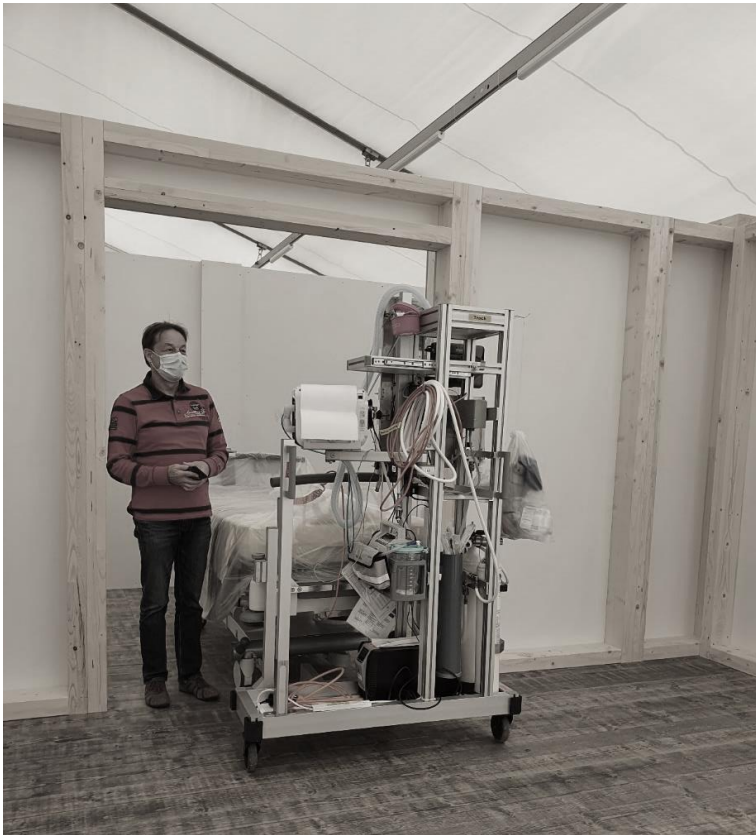
planning - user involvement

3-D VR
smaller scale



planning - user involvement

3-D tent
large scale



planning - user involvement

3-D mock-up
fit out - materials + finishes

> NISCHE MIT
durchlaufende Tapete
definiert.



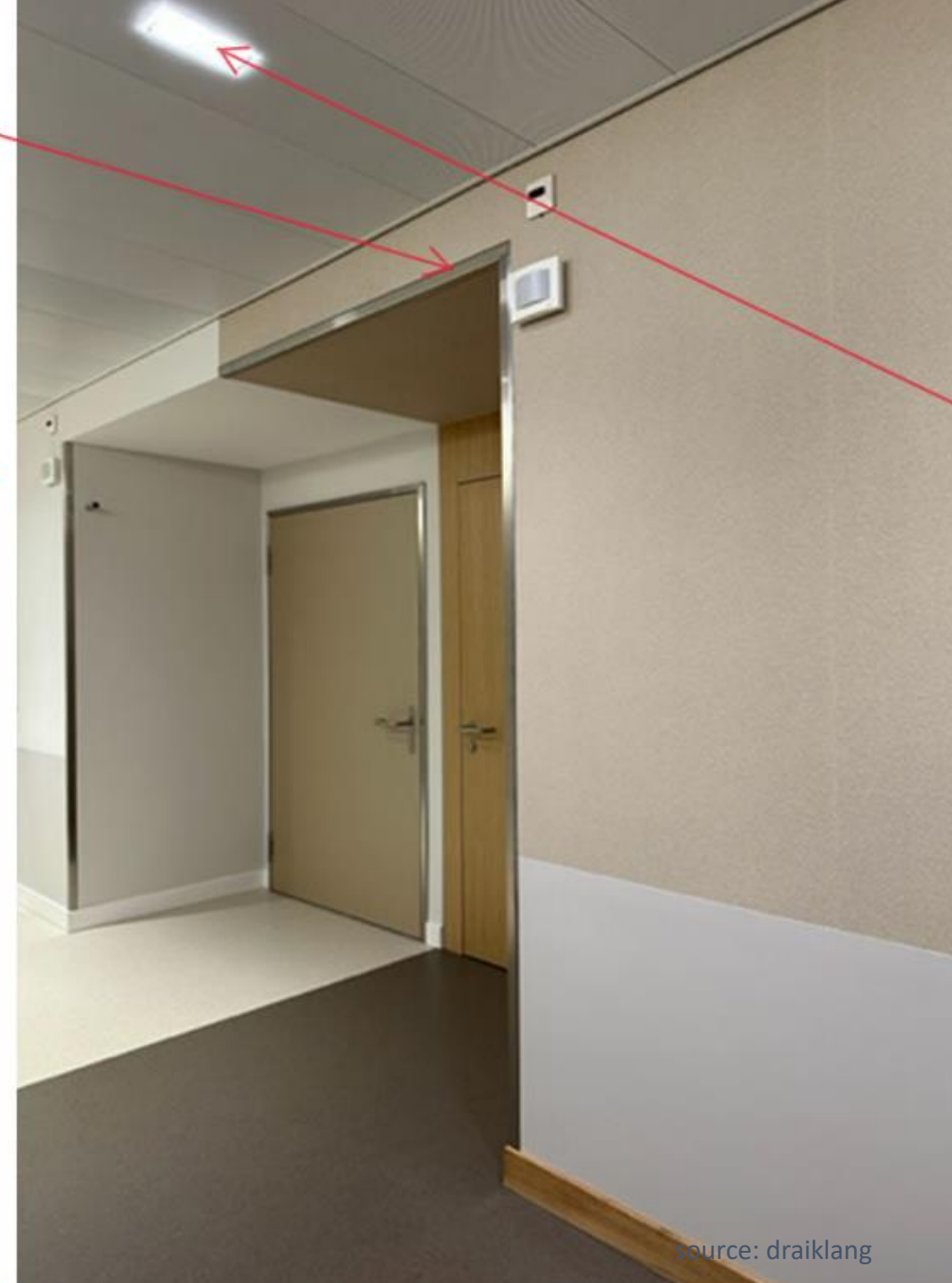
Jüstierung Material Privat
gemäss Rückmeldung IDI:

PRIVAT KORRIDOR

- Wandschutz: Acrovyn 187 Rinde
- Tapete: Newmor Bark, VBK 103

PRIVATZIMMER:

- Wandschutz hinter Bett: Acrovyn 801 Wolkengrau (analog Allgmeinzimmer)
- Tapete: Newmor Bark, VBK 111
(= gleiche Serie wie Korridor anstelle Tapete Mockup)



planning - user involvement

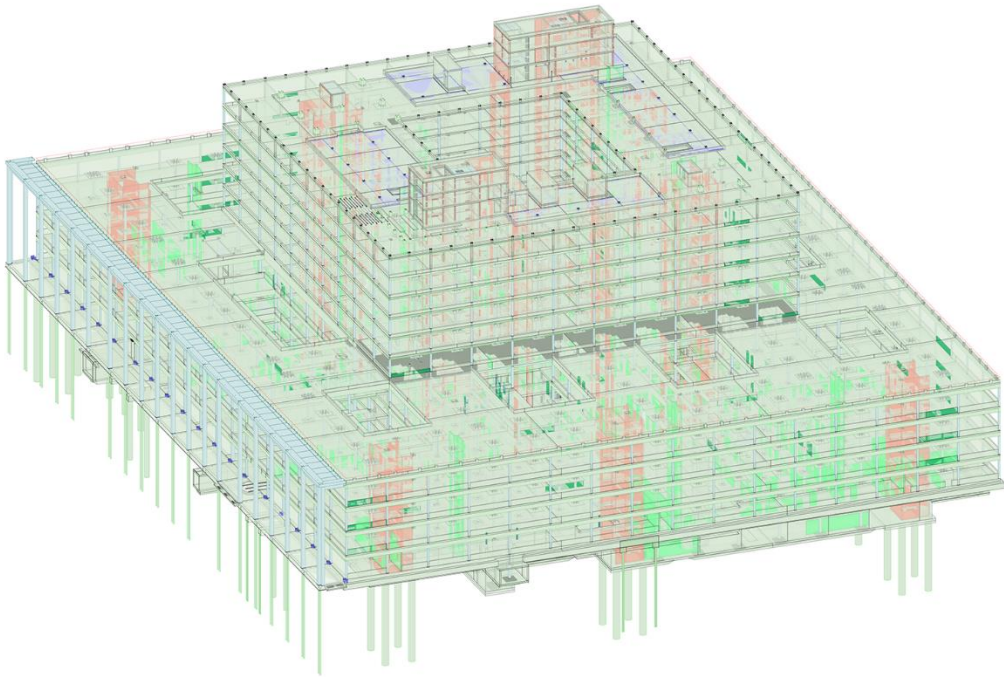
3-D mock-up

facade - materials + finishes



digital planning - on site

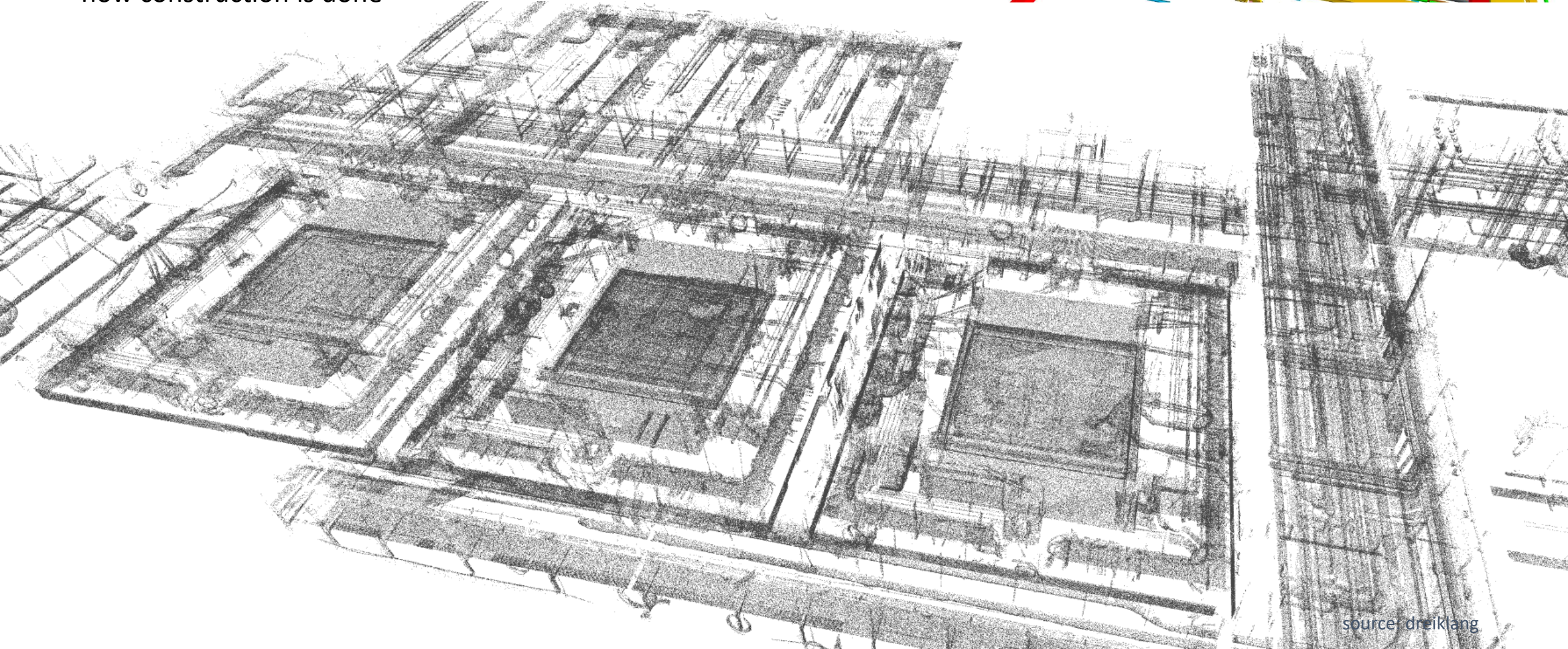
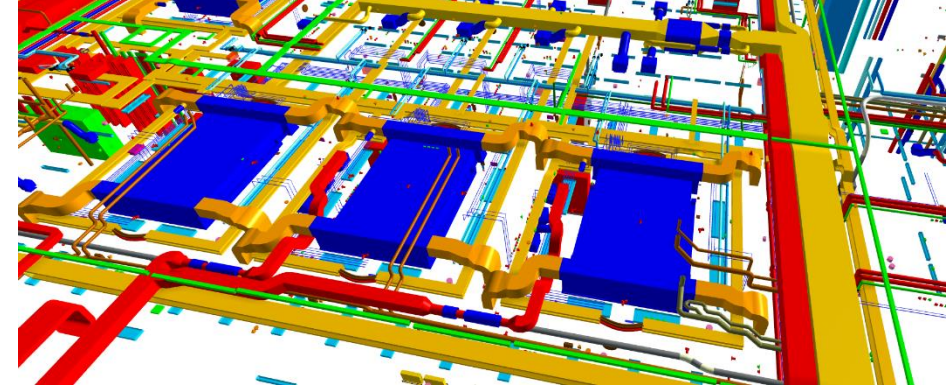
BIM2field for shell + core
modell – plan – site



source: marti bautechnik ag

digital planning - on site

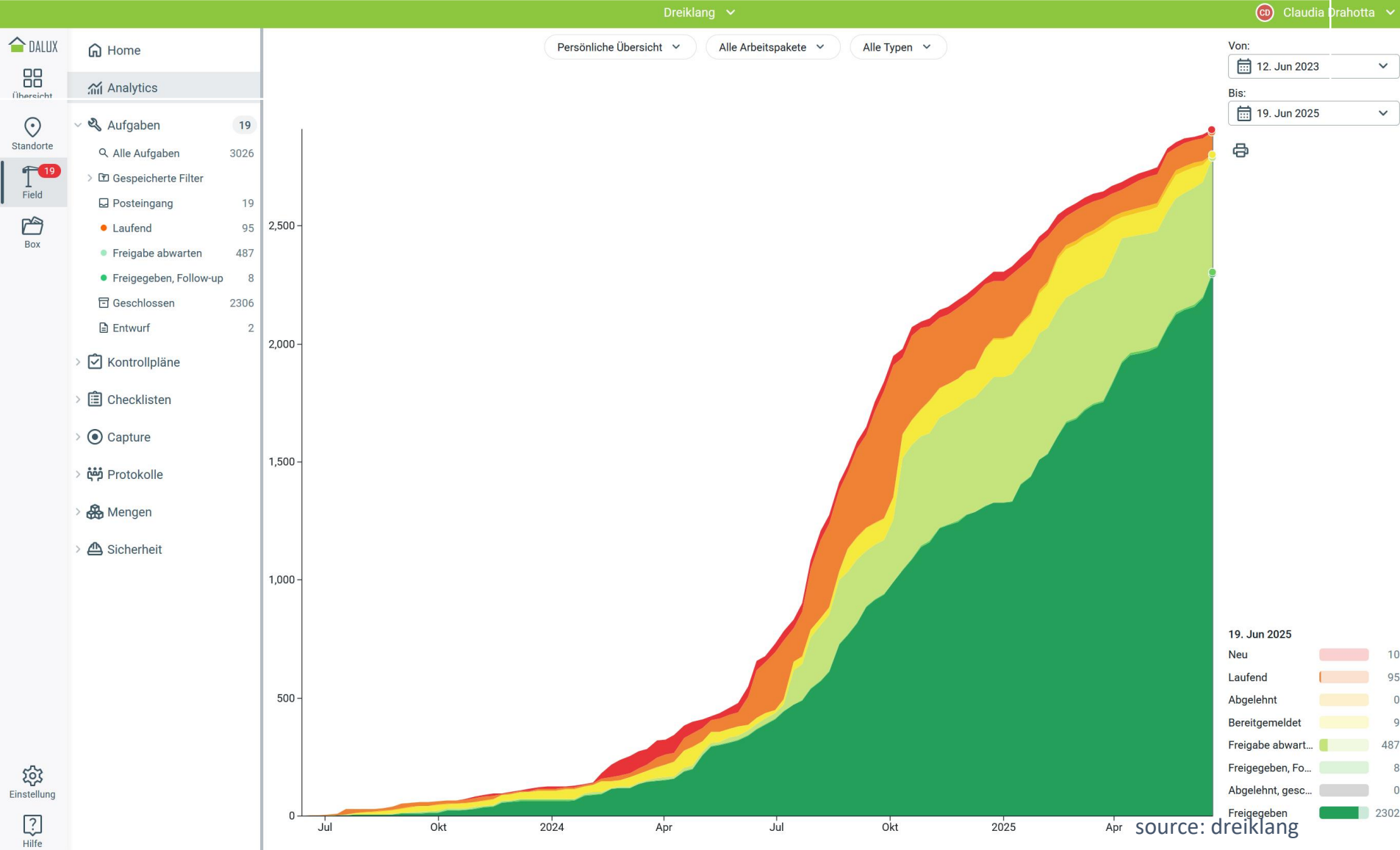
digital site management
how construction is done



source: dreiklang

digital planning - on site

real time documentation
feedback in planning team



P21566 Unterdecke durch Brandabsch

Erneut öffnen Link zu... Drucken Mehr



1.4.2025-06-18, 14.15

18. Jun 2025, 16:25
An Implanzia zugewiesen

Aktualisiert von: Roberto Cifuentes, Implanzia
Stellvertreter für: Claudia Drahotta, WTR
Neu verantwortlich: Alan Colley, Implanzia
Arbeitspaket: 0000_Planer_Brandschutz KSI -> 0000_Planer_Architektur
Workflow: KSI AG > Verantwortlicher Implanzia -> Architektur
Verantwortlicher > Verantwortlicher Implanzia
Nachricht: wie wird das detail oben ausgebaut?
Frage von Moritz beachten



2.1

18. Jun 2025, 16:26

Aktualisiert von: Roberto Cifuentes, Implanzia
Stellvertreter für: Claudia Drahotta, WTR



Einstellung

Hilfe

source: dreiklang

next milestones – completion



next milestones – the digital twin in future use



any questions ?

