

Totaal OK 2024



**Transformation of the OLVG
OR complex**

The story of this complex puzzle

12 september 2024

Speakers:



Thomas Brouwer

Project architect

EGM architects



Letty Koopman Springer

Operational manager

OR complex OLVG

Speakers:



Thomas Brouwer

- Design process
- Phasing video
- Interior design



Letty Koopman Springer

- Communication an organisation
- Success stories
- Rescheduling Plan

EGM architects



St Maartenskliniek, Ubbergen



UMCG, Groningen



Drive-in OR RDGG, Delft



MMC, Veldhoven

Existing situation



Inner city hospital +

75% built area

ca. 65,000 m²

Existing situation



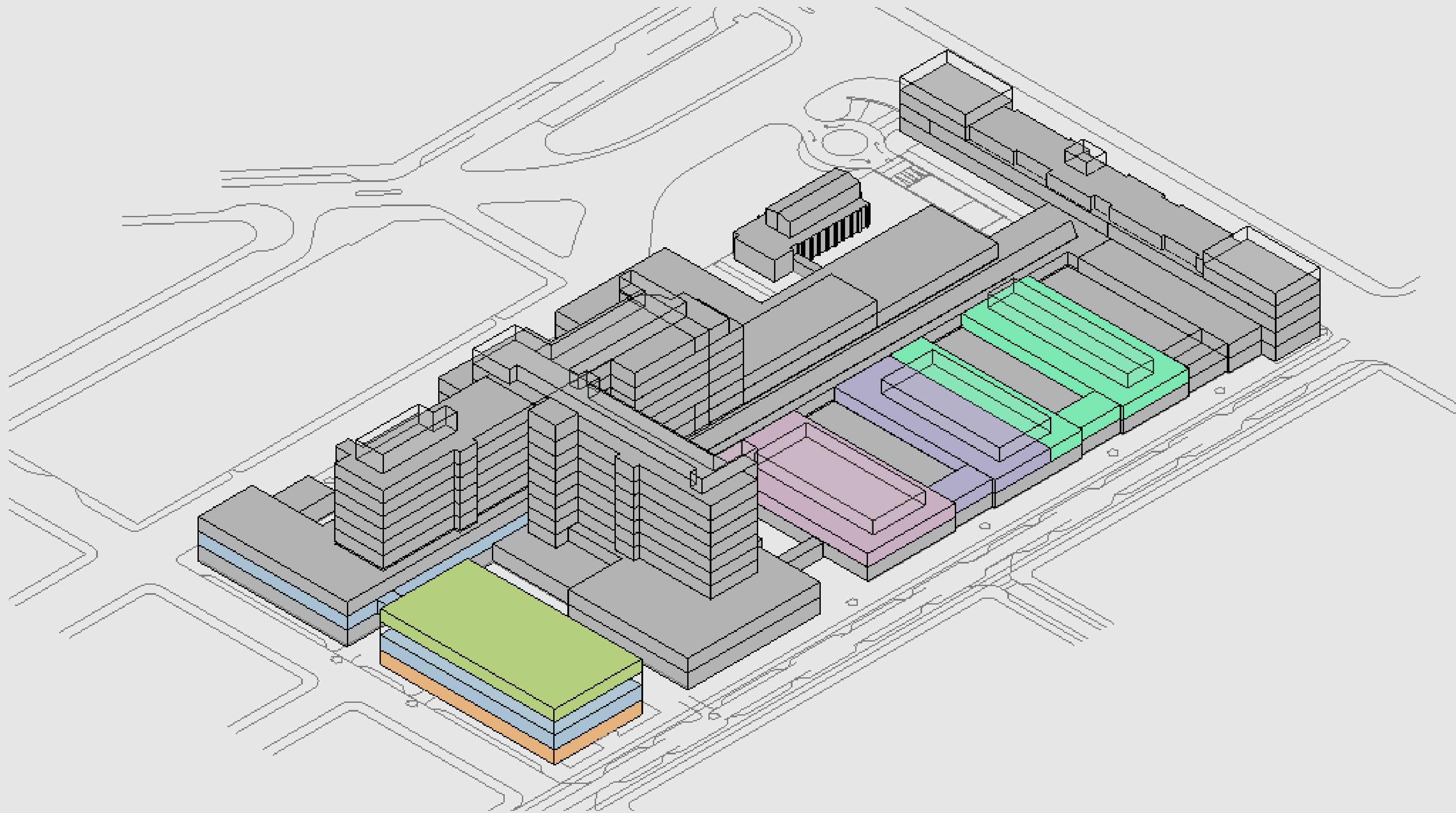
- 1st floor
- 12 ORs
- ICU 24 beds
- Day care
- New building?

Studies



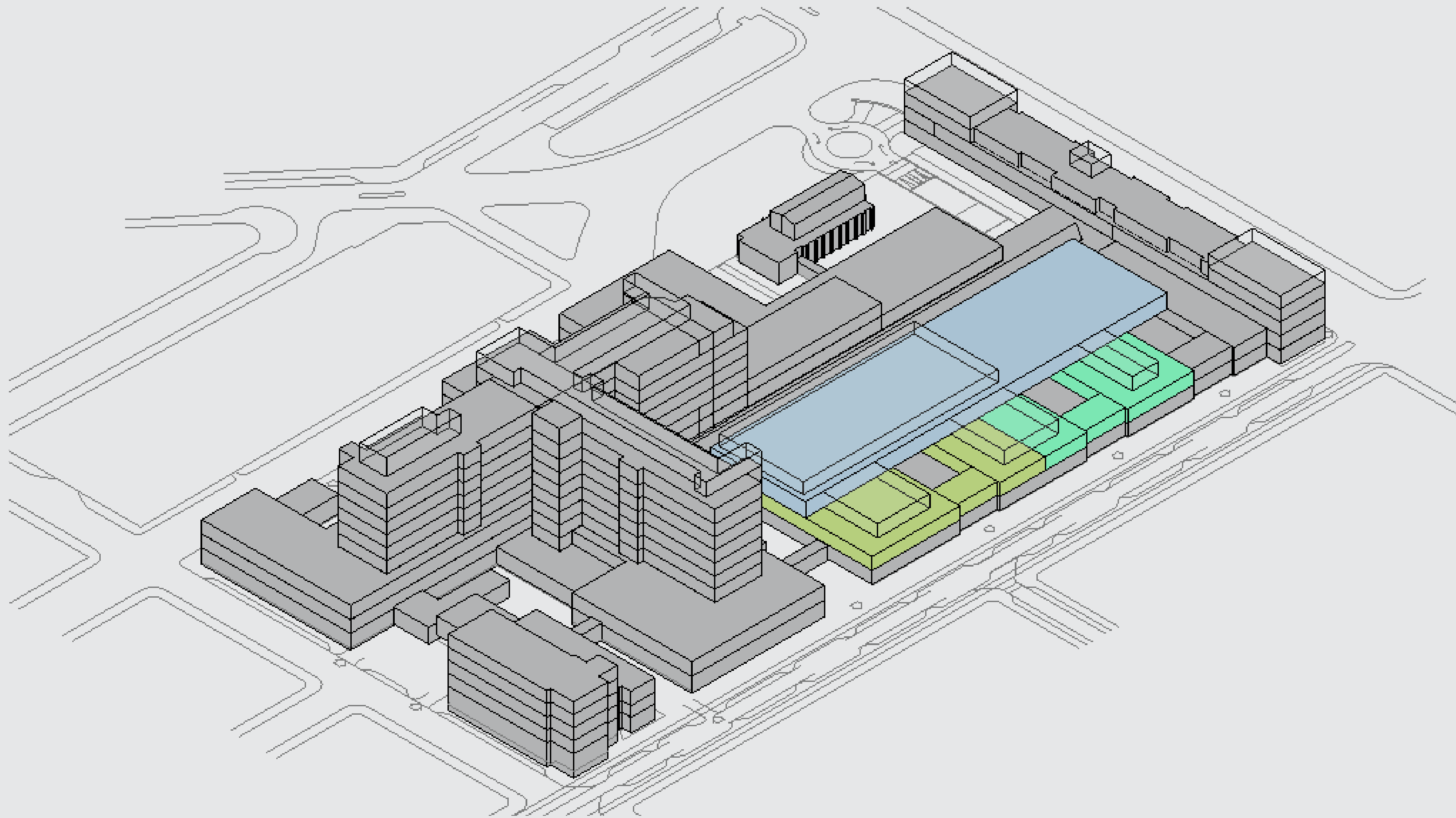
- Building on top of OR complex

Studies



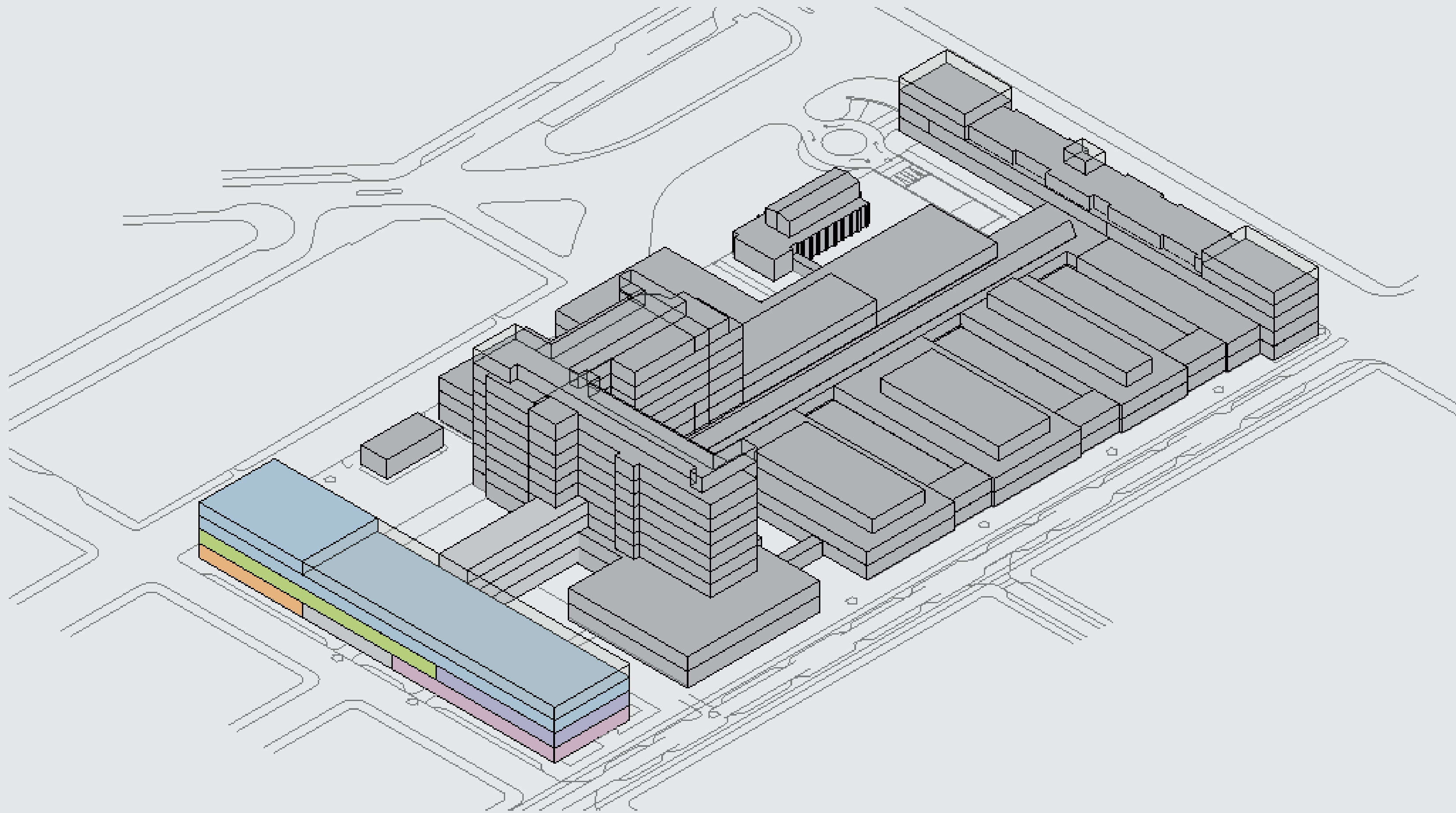
- Renovation and new building

Studies



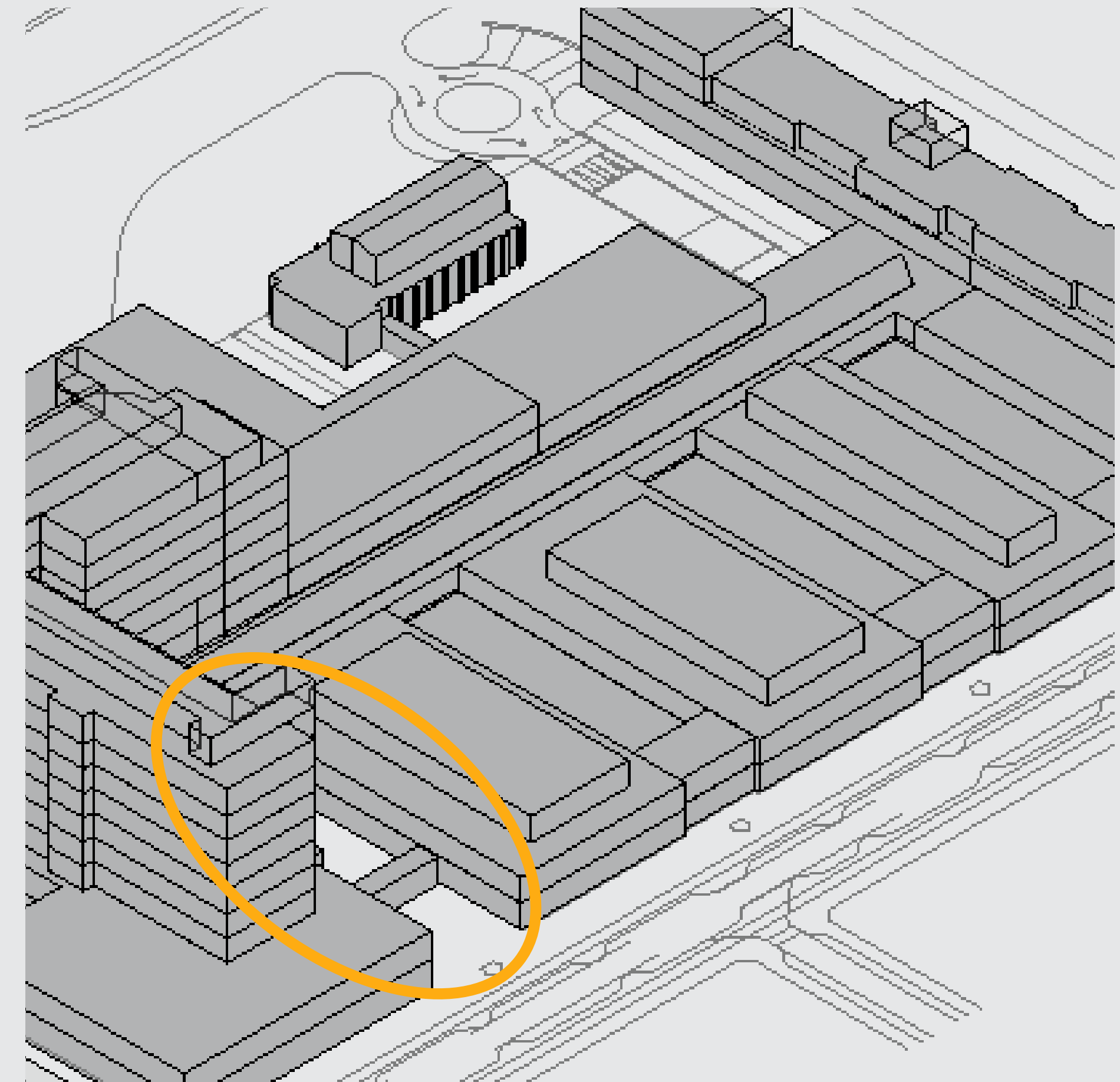
- Renovation and
'table building'

Studies



– Completely new
building +

Breakthrough

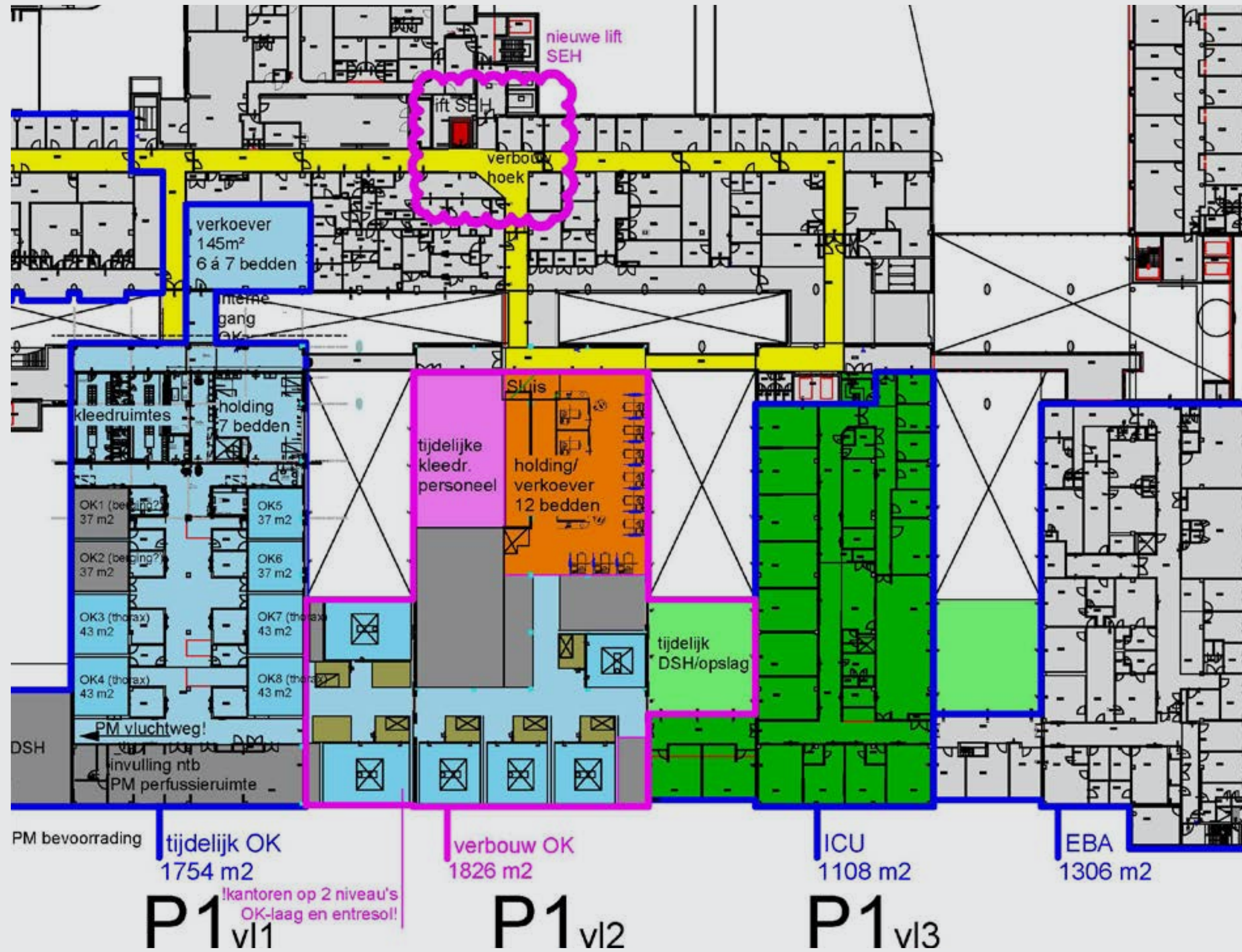


Breakthrough



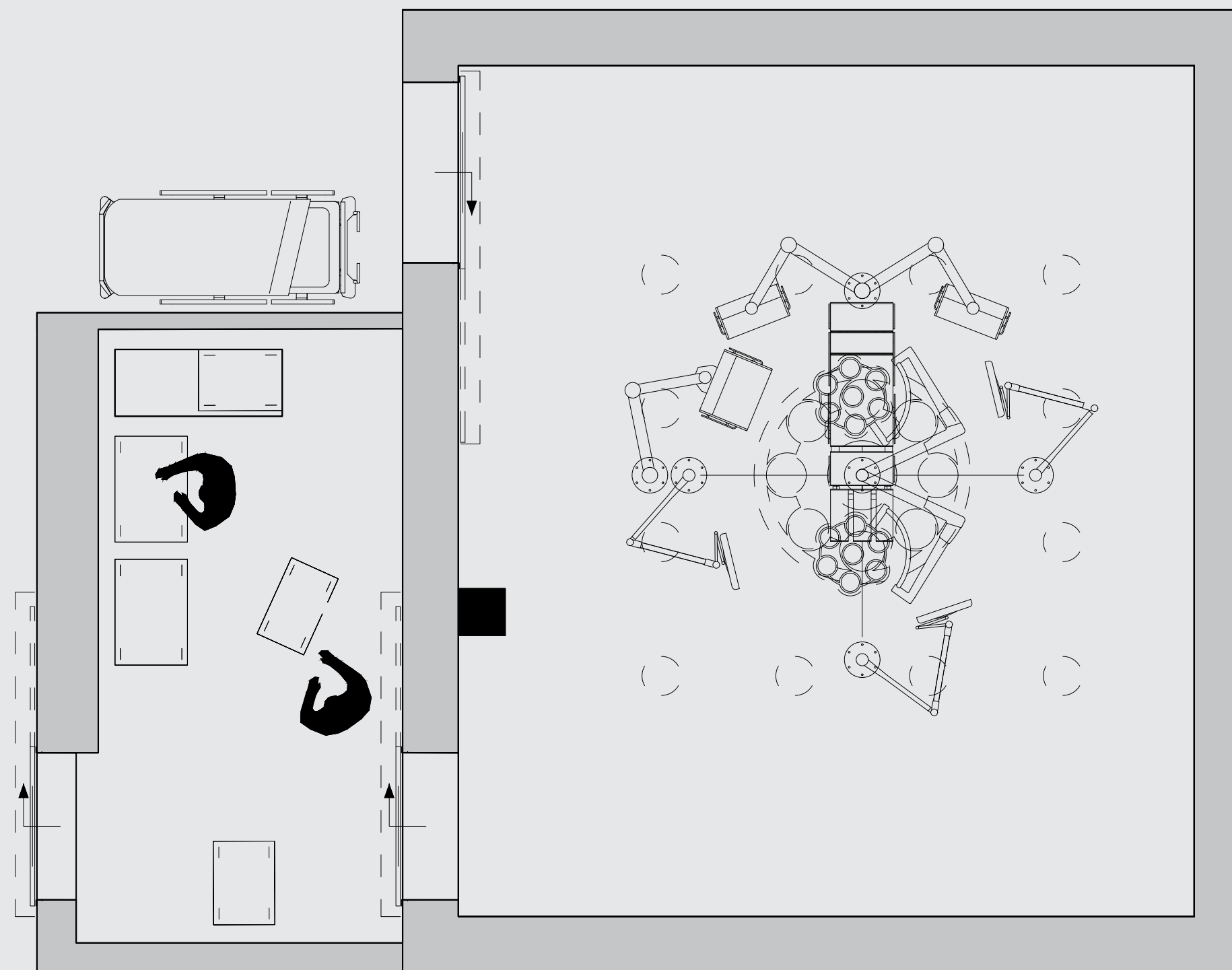
Post-operative recovery area,
Changing room, Sterile storage

Breakthrough



- Renovation B-wing
- OR 50 m²
- Grid size 6.6 x 6.6

Breakthrough

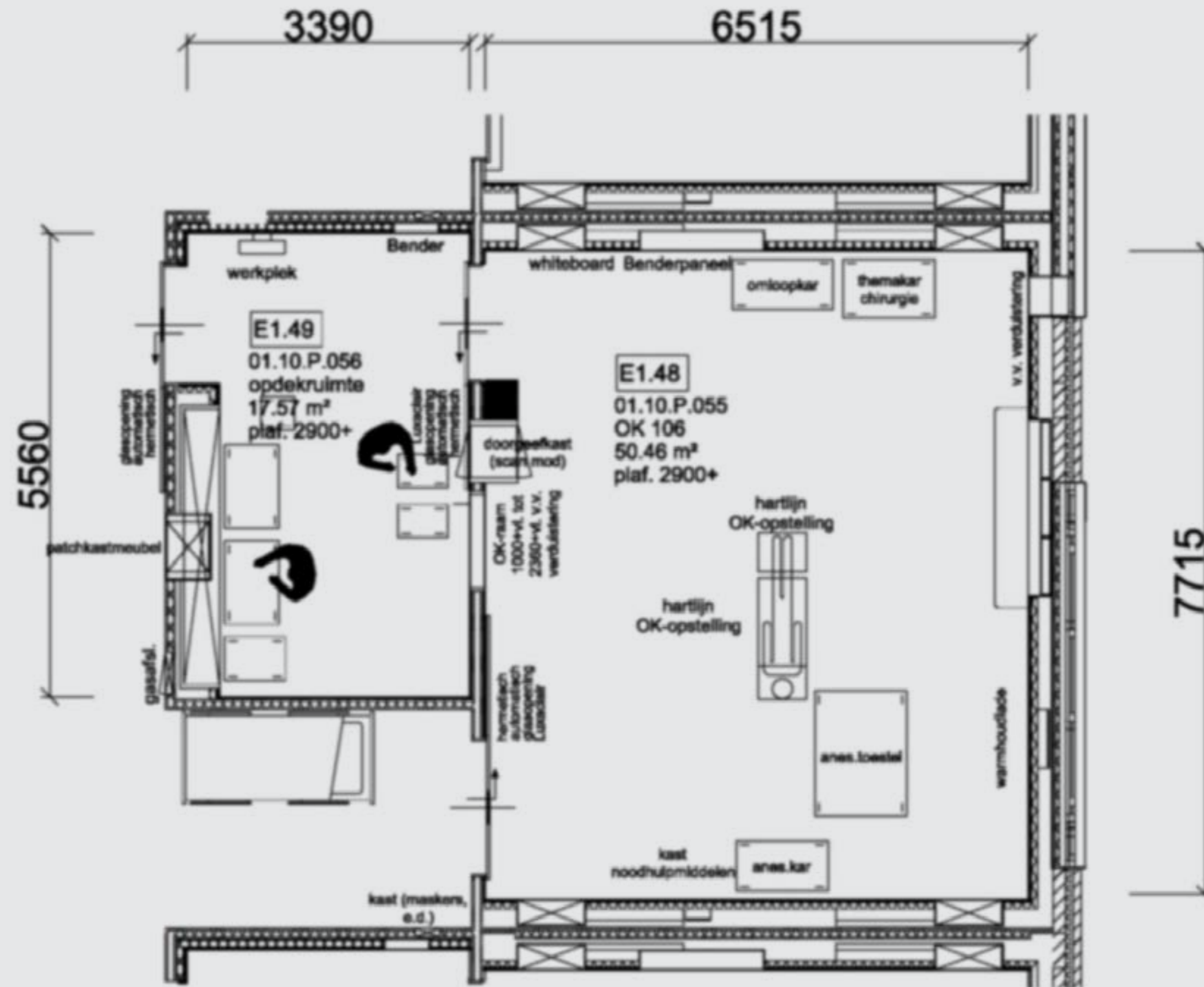


Surgical setup module

Main features:

- OR 50 m²
- OR 6.6 x 7.6 meter
- Setup 2.7 x 5.5 meter
- Opragon OR ventilation system
- Crossflow for setup
- Bed parking space at OR entrance

Breakthrough



Preliminary design



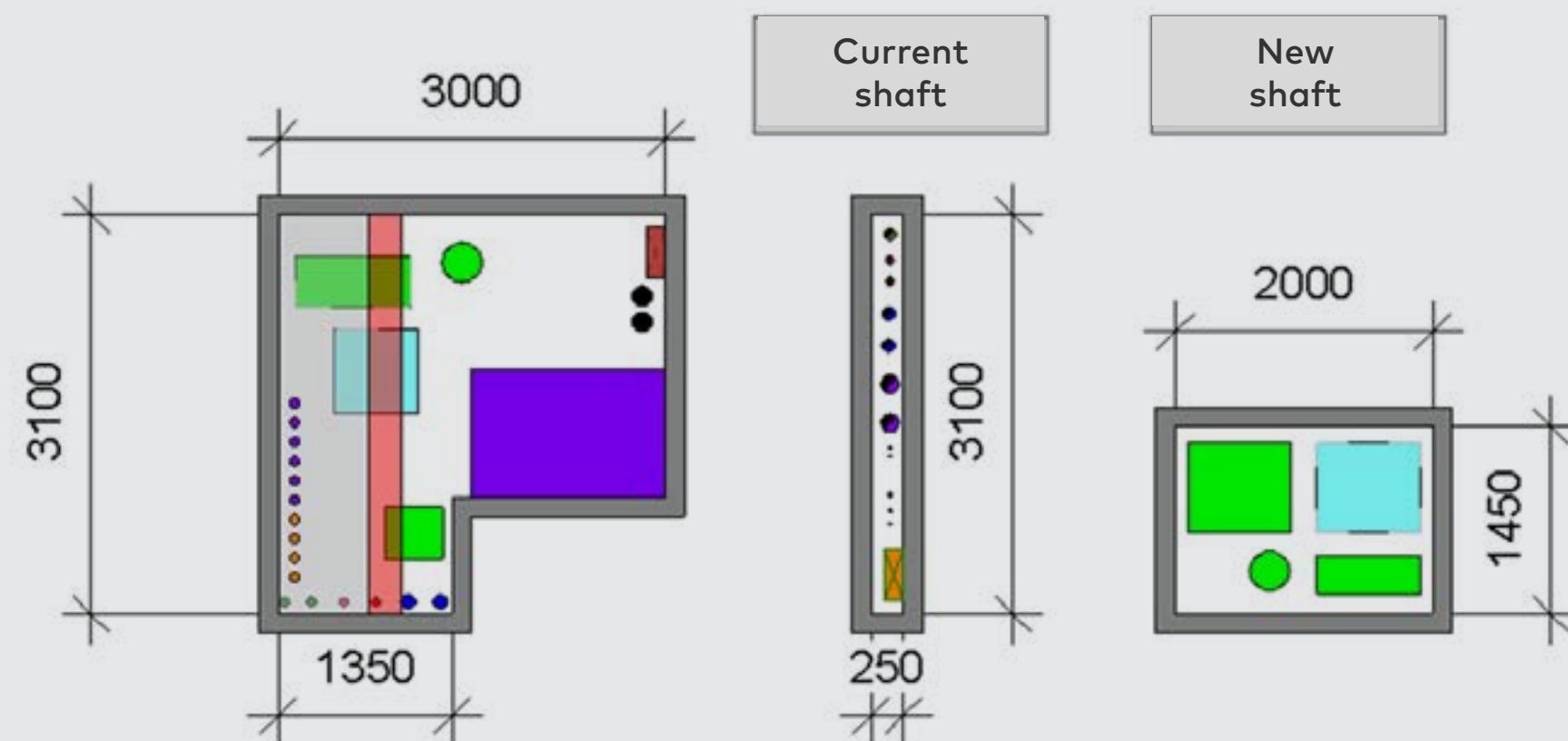
- Separation of logistic flows
- Tiered ORs
- Offices, storage at the south side
- Existing shaft

Preliminary design

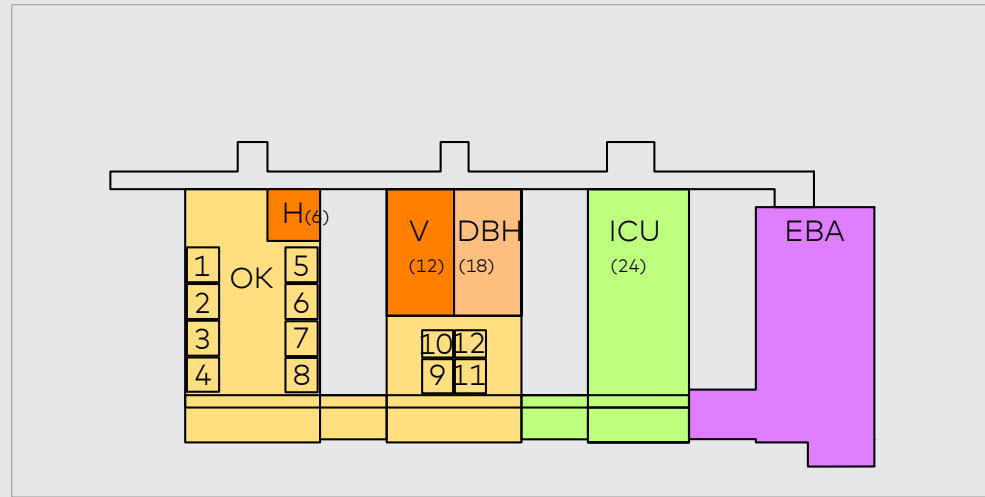
Option 1: moving air ventilation systems

Impact OR:

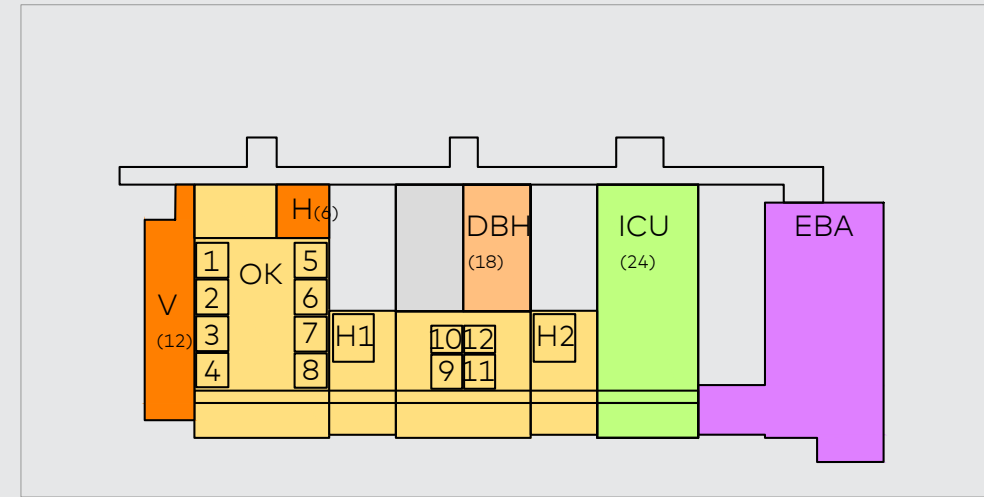
- Wider passage due to removal of a column
- Smaller sterile storage



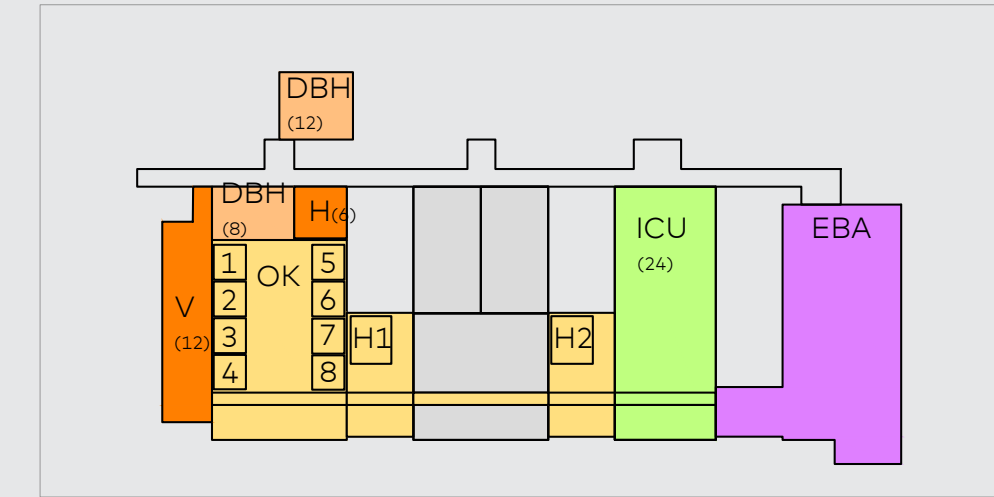
Phasing



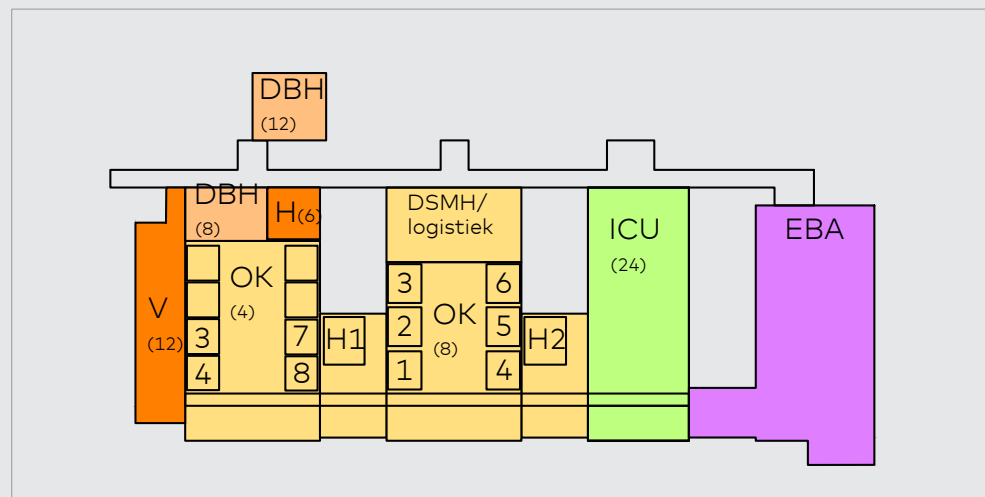
Huidige situatie



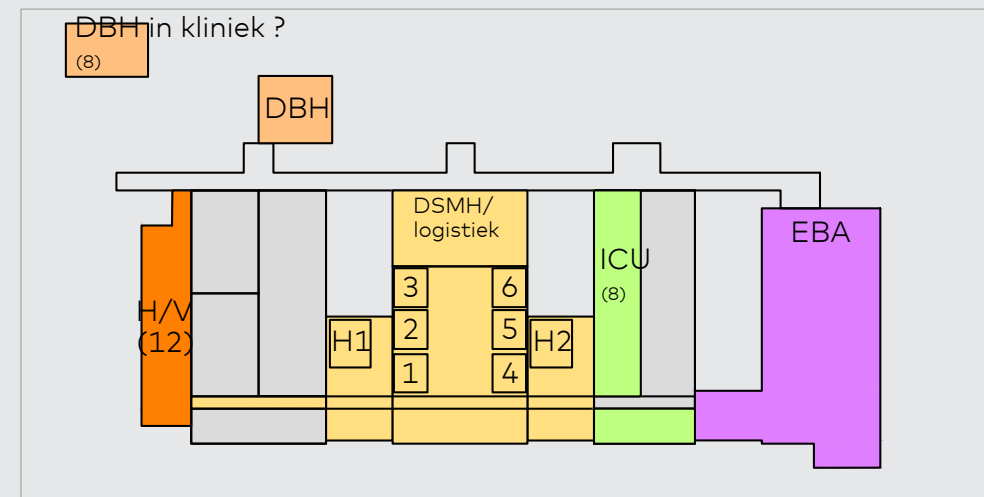
Situatie na Stap 2
tijdelijke huisvesting



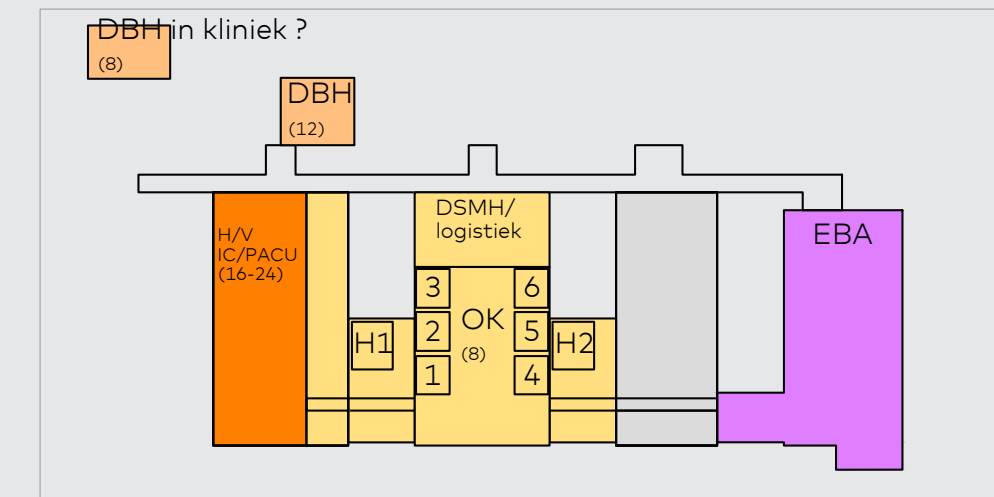
Situatie na Stap 3
interim DVP en tijdelijk 10 OK's



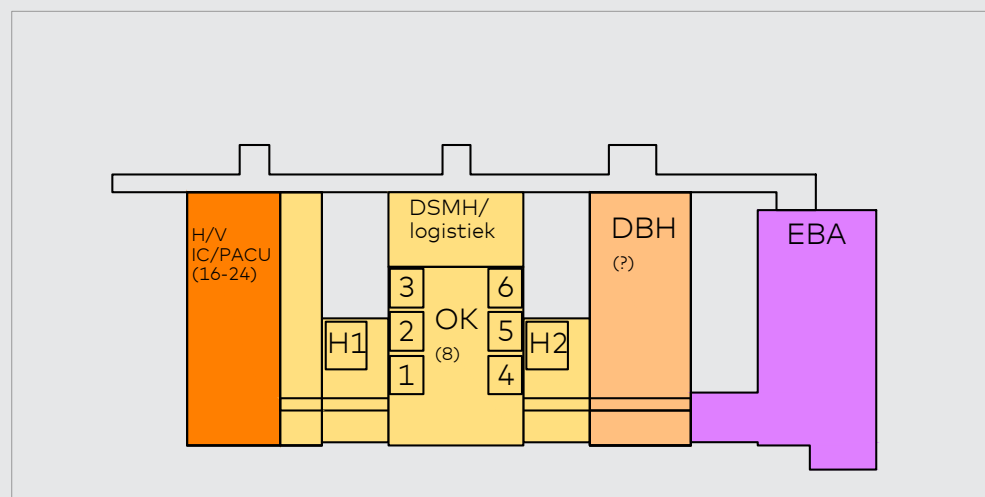
Situatie na Stap 4
verbouw lob B



Situatie na Stap 5
HVC in gebruik, lob A en deel
lob C komt vrij

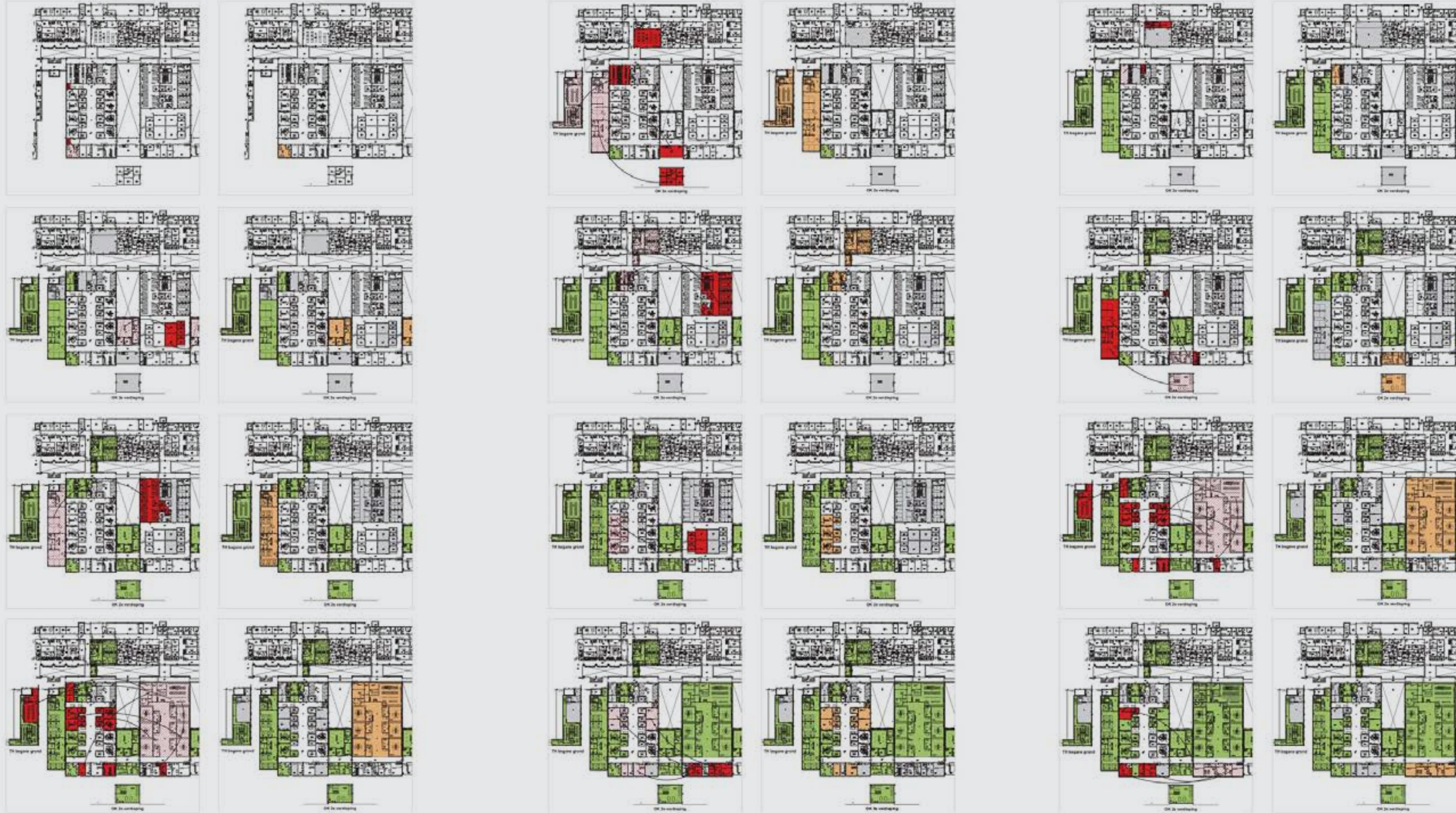


Situatie na Stap 6
verbouw lob A en verhuis H/V en ICU
naar Lob A



Situatie na Stap 7
verbouw Lob C en verhuis DVP
Eindsituatie

Relocation phasing



- Working processes
- OR facilities
- Scrubbing room
- Perfusion

Video



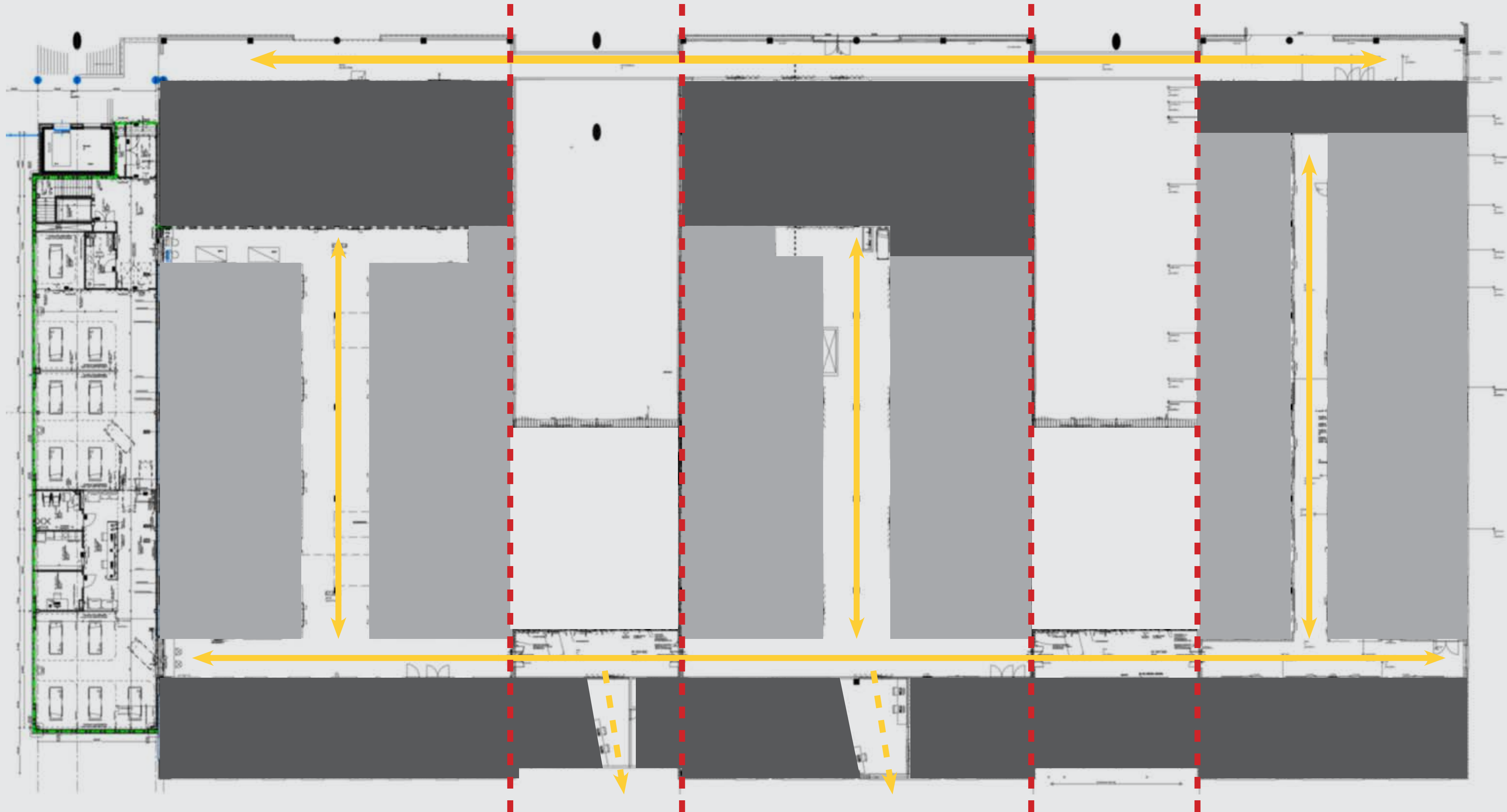
Interior design



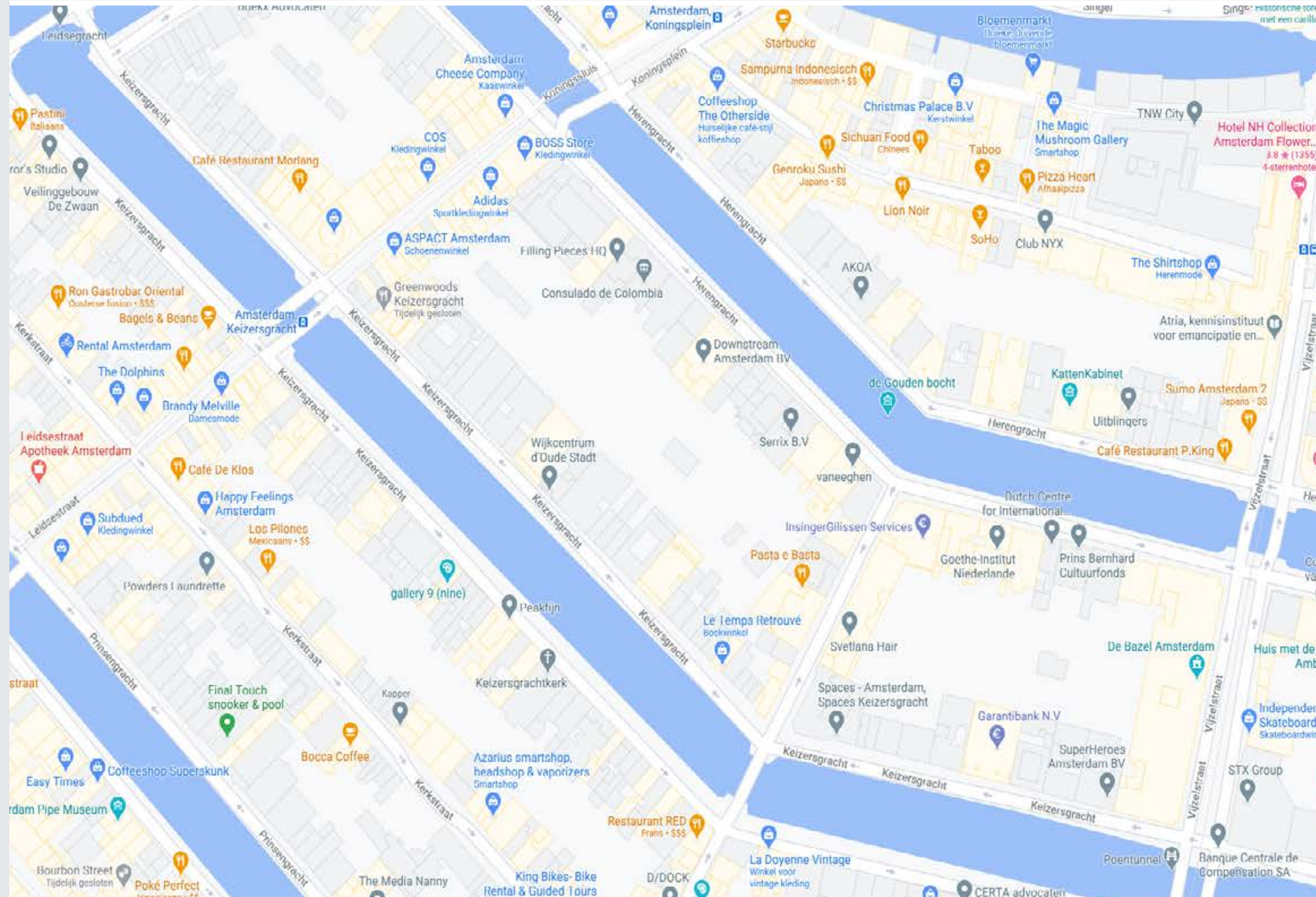
Interior design



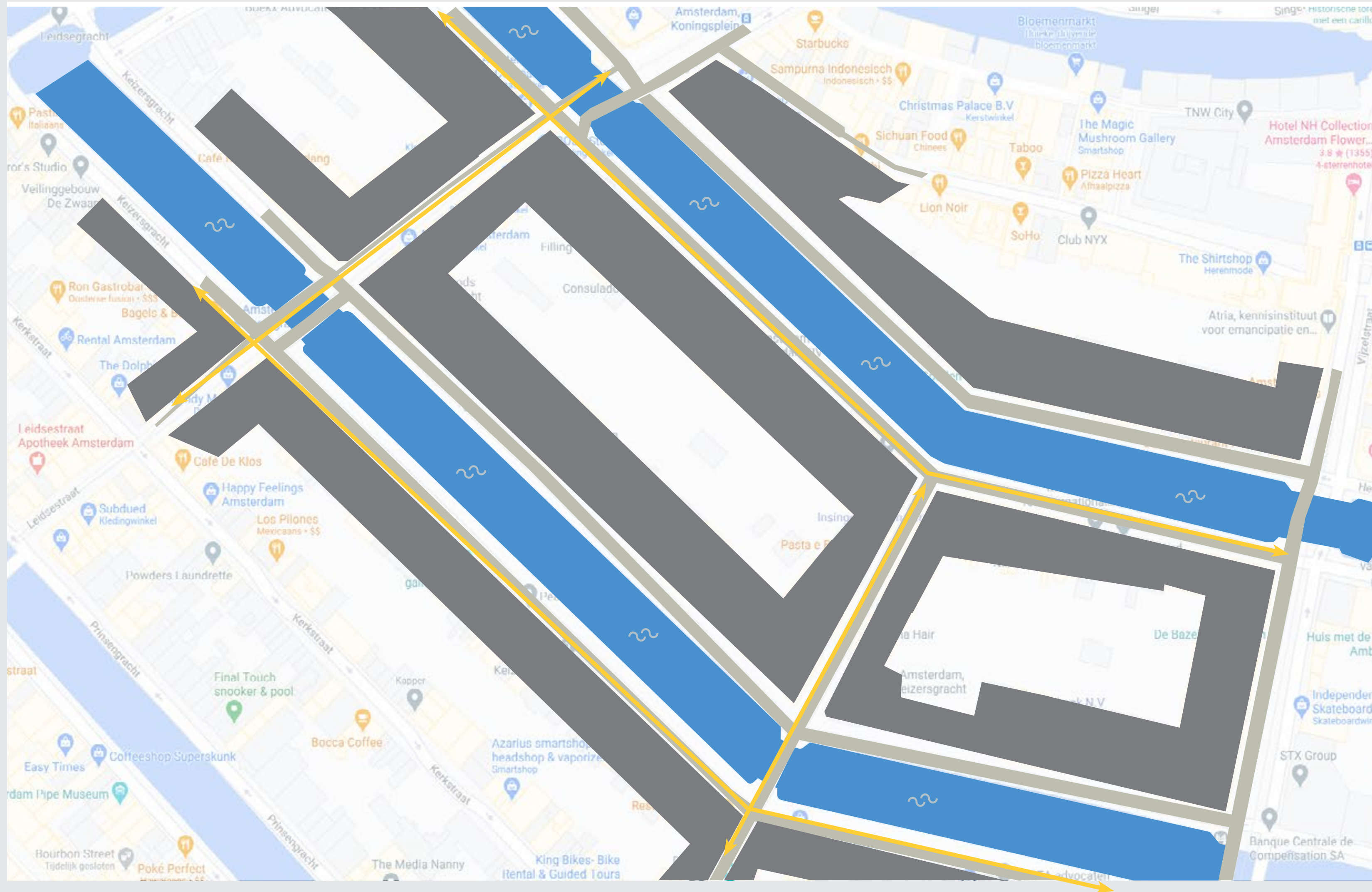
Interior



Interior



Interior



Interior



Interior



Amsterdams
lettertype



Witte kozijnen in
gevel als contrast



Kozijn blijft wit,
binnenwerk
afwijkende kleur



Stoep en gracht
voor de deur.

Houten
deuren



Deuren in
opvallende kleur,
eigen identiteit



Witte kozijnen in
gevel als contrast



Interior



Rear of canal houses in grey

Holding, recovery room referring to backyard with a garden path and greenery

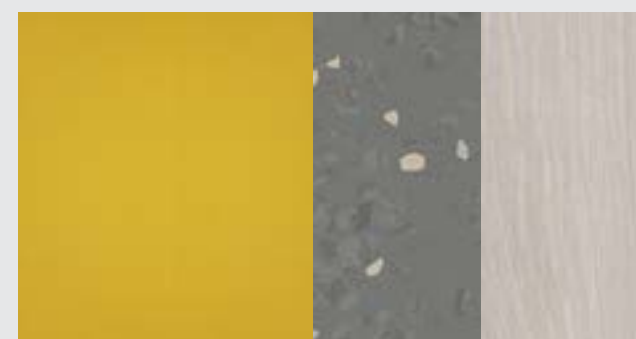
Central blue strip in the corridor, referencing the nearby canals

Walls in a different color, designed to resemble a canal house facade, white frames and doors

Corridors appear less long with differentiated floor patterns

Lower zone with outside view, designed like park, green, woods

Interior



Preliminary design



Interior



Interior



- Art
- Line drawing
- In colour

OLVG. Beter in Amsterdam

(motto)



Interior

History



Street art



Location





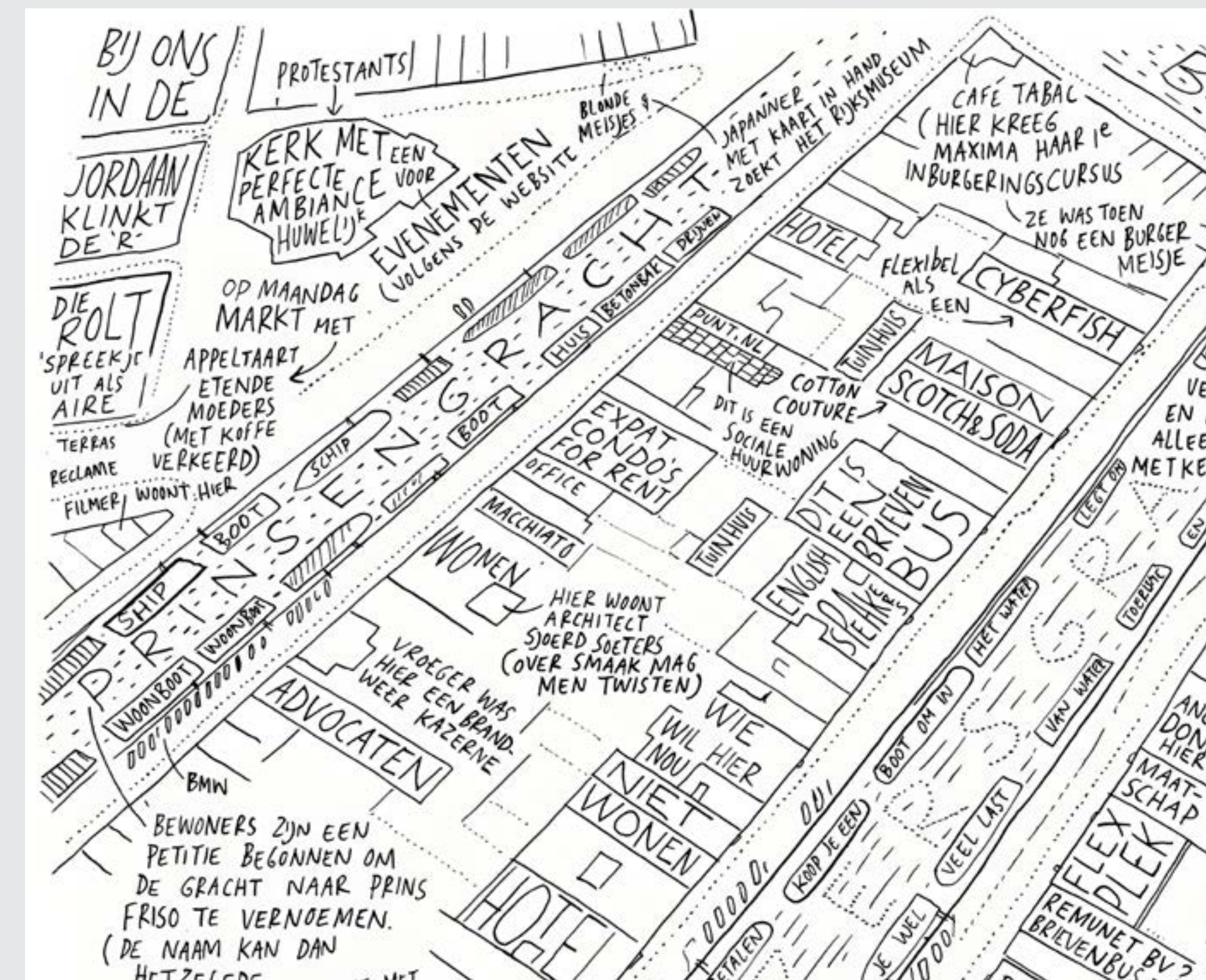
Herman Brood,
Stoonde tekening toch

Interior



George Hendrik Breitner,
Zicht op Rokin

Interior



Jan Rothuizen,
De zachte Atlas

Interior



Isaac Israëls,
Artis

Interior



Rembrandt van Rijn,
Portet Saskia van Rijn

Interior



Selwyn Senatori,
Amsterdam City Love

Interior



Relying on 40 yeras of OR experience



What does that achieve?



Knowing

- When to involve your employees
- Assessing the impact of the building plans
- When to scale up
- What is not practical
- Storage should not be neglected
- You can never have enough power outlets
- Toilets
- A costly solution for a minor problem

What is important?



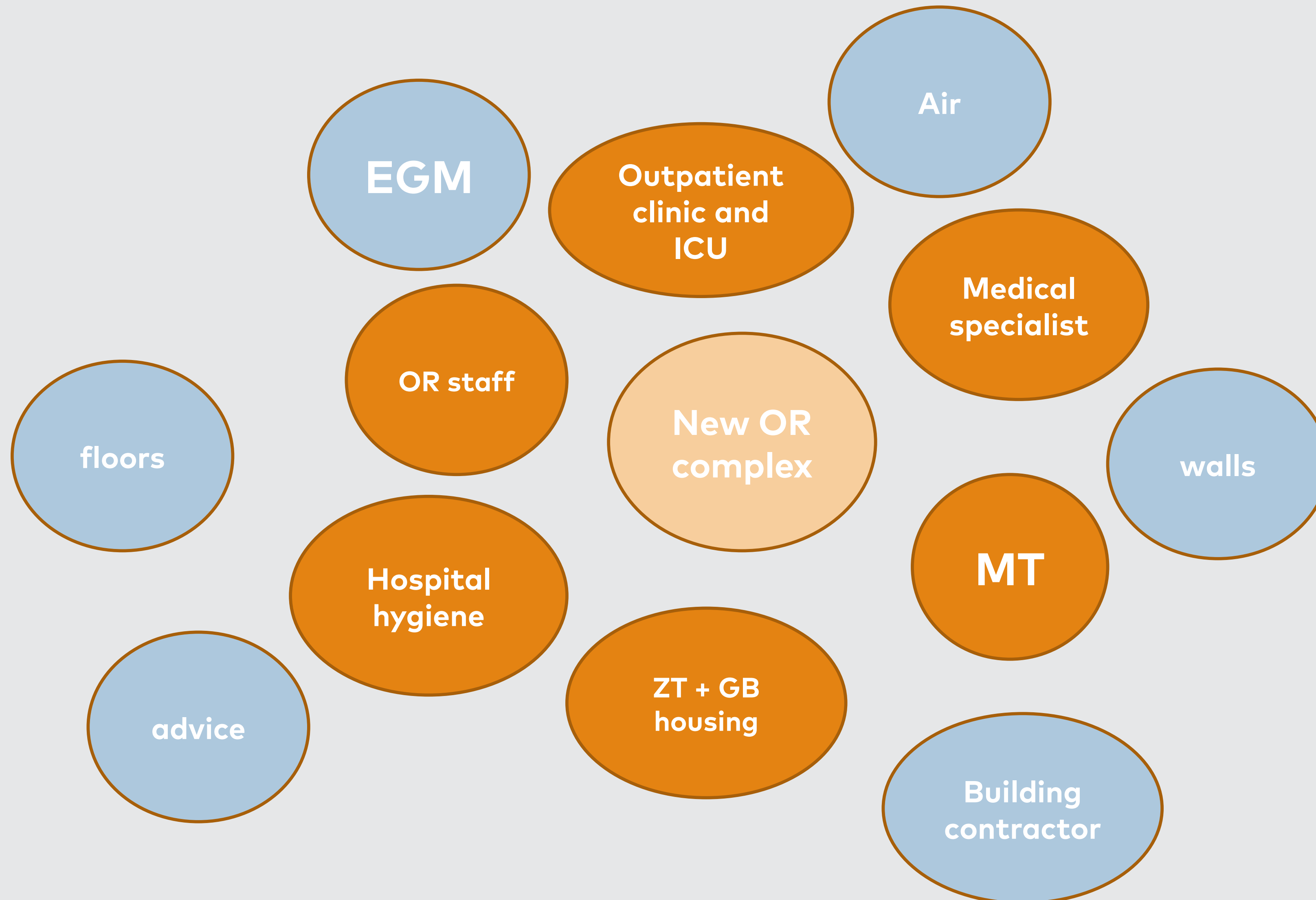
- Communication
- Be on top of the schedule
- Ask a lot of questions
- Adhere to your program of requirements
- But also be willing to adjust
- Long-term plans of the executive board may impact the current project over time
- Doers and thinkers in the project group

Communication and organisation



- Consult project triangle of project manager and architect
- Working with a construction team for the design and construction phases
- Project team including end users
 - Specialists
 - Staff
 - OR team leaders
 - Architect
 - Project manager Construction
- External consultant, yes or no
- Liaison officer between the construction team and OR

Stakeholders



What almost went wrong?



- Compressed air: announcement, will only be off for 2 hours
- Coffee room closed for 6 weeks
- Leakage in Coffee room

Success stories



- Mock-up OR
 - Window between Surgical setup and OR
 - Specialists had to make choices
 - Refer back to previous decisions
- Renovation of the staff room before OR renovation starts
 - Initial design
 - Staff choose colours, chairs, sofas, lamps, and tables
- Minimise disruption to the rest of the hospital
- Construction in the heart of an operational OR complex
- Open day just before the opening

Success stories



Mock-up OK

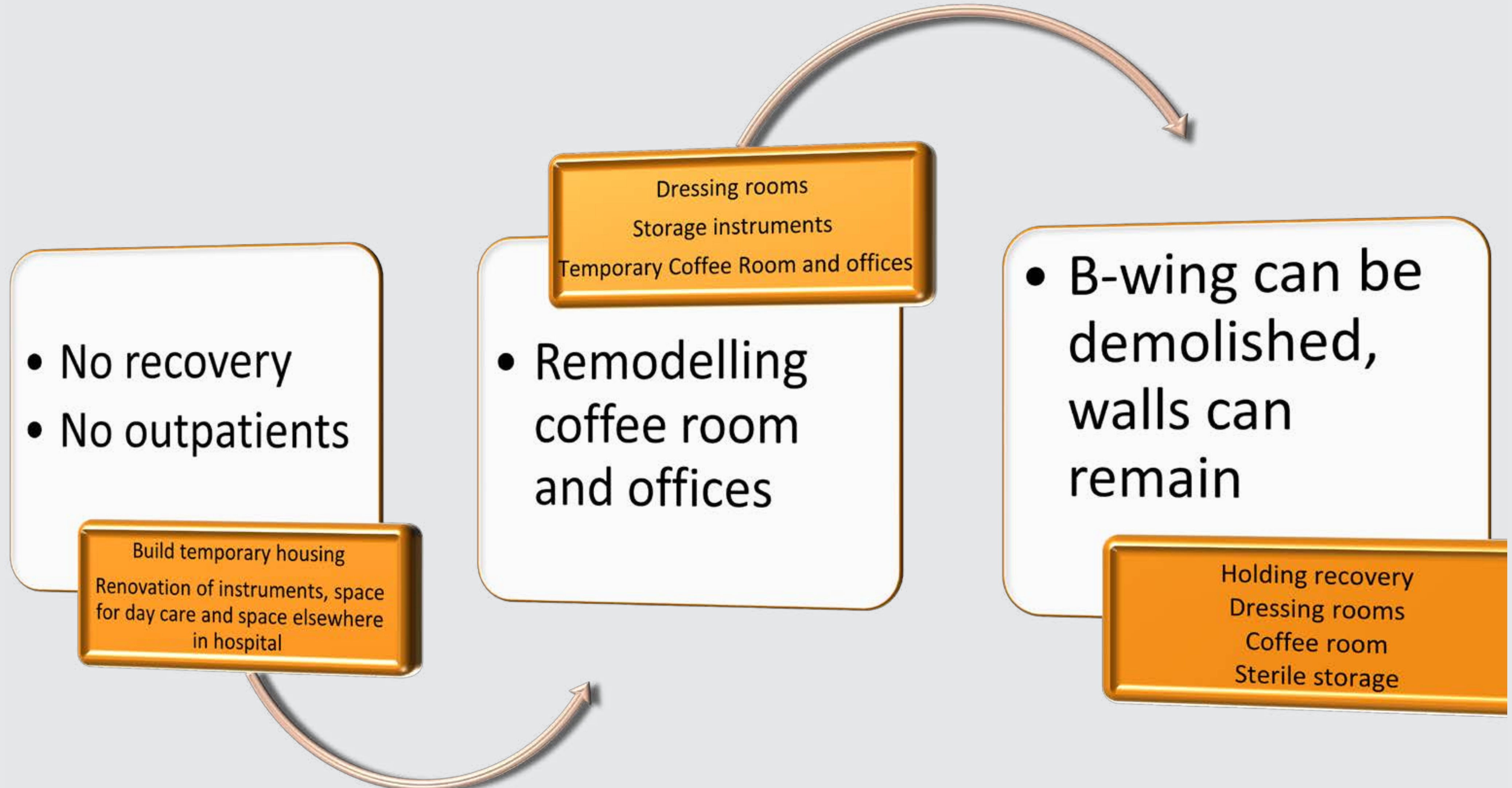


Rescheduling plan

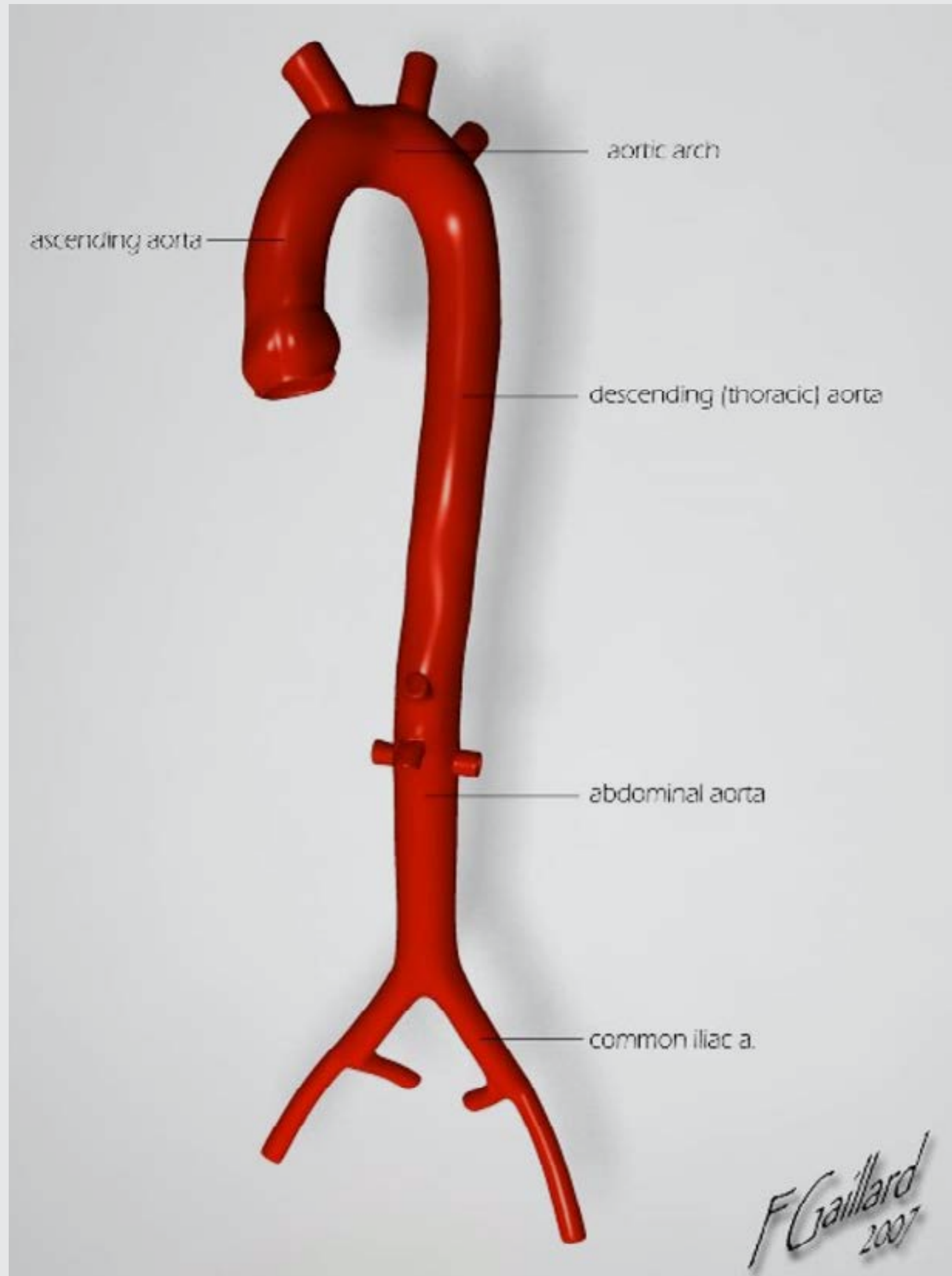


- Temporary accommodation was essential
- The final location of recovery
- Demolition of B-wing after moving recovery
- We found a solution for every problem
- PRI to review all relocation plans
(aren't we forgetting something?)

Closing the building area



Logistical challenge

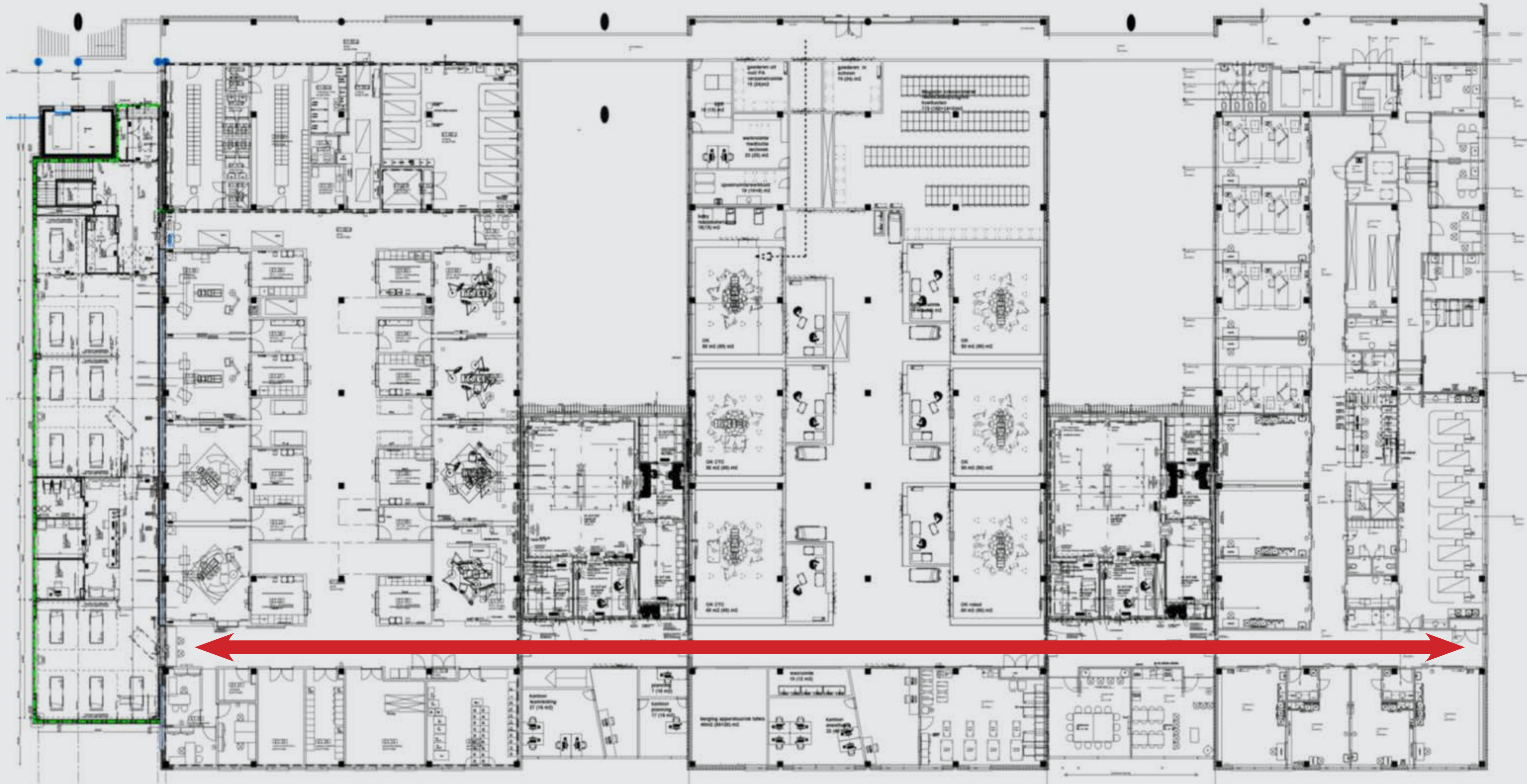


The Aorta must remain open, closed when absolutely necessary

→ Connection of the OR complex with the ICU and recovery

Closed anyway → **COMMUNICATE WELL!**

Aorta



Airflow management



- Always old and new systems side by side
- Short lines of communication with building management, infection prevention and quality officer
- Pressure hierarchy effects
- Constantly checking
- Actually not desirable
- Expand air management plan

End in mind



- By properly involving staff and specialists, more is achieved
- Create understanding for all the hassle
- Tell regularly how things are going
- Include project group members to monitor construction progress
- Photos in newsletter

Celebrating successes



- Milestone cake
- Putting the project group in the spotlight
- Festive opening of hybrid operating theaters with mini symposium
 - Support of Board
 - End user medical specialist who talks about use and options in hybrid OR
- Open day for employees and family
- Big party when the last piece is finished