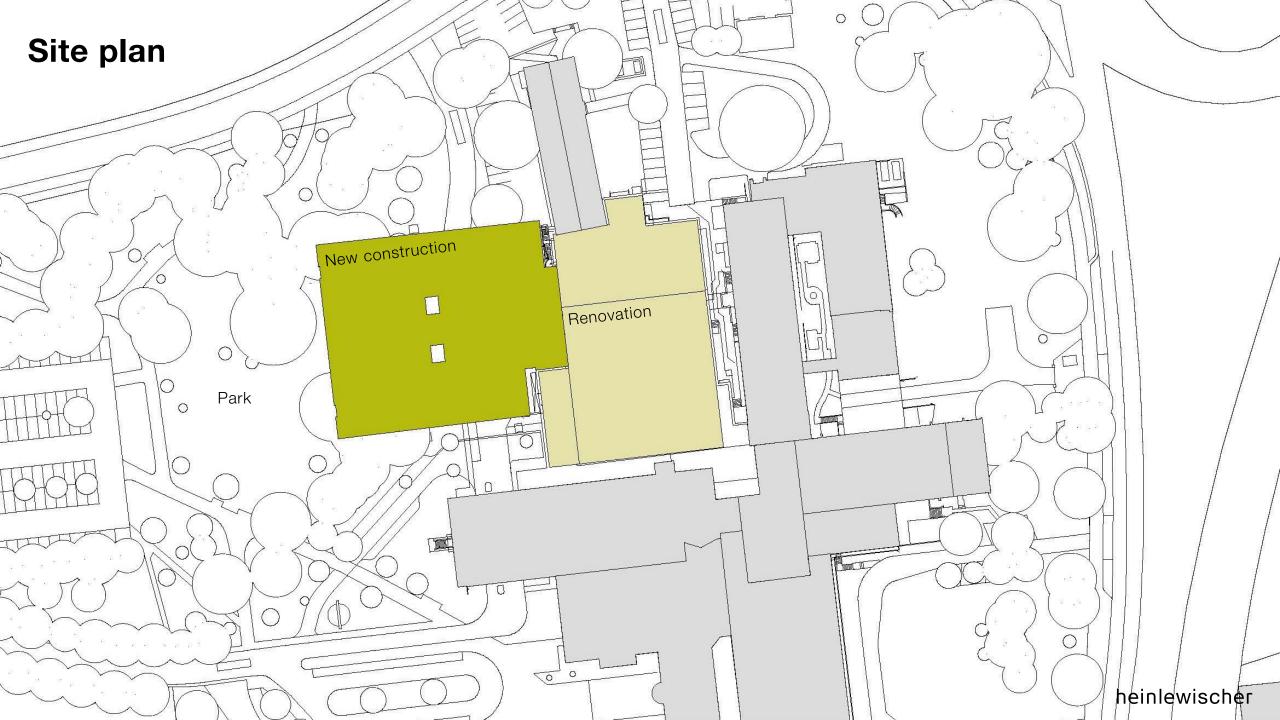
Project report – Structure located Edzard Schultz, Architect

Operating Master **First** plan step room Hybrid **Patient** New layout room Facade Insight

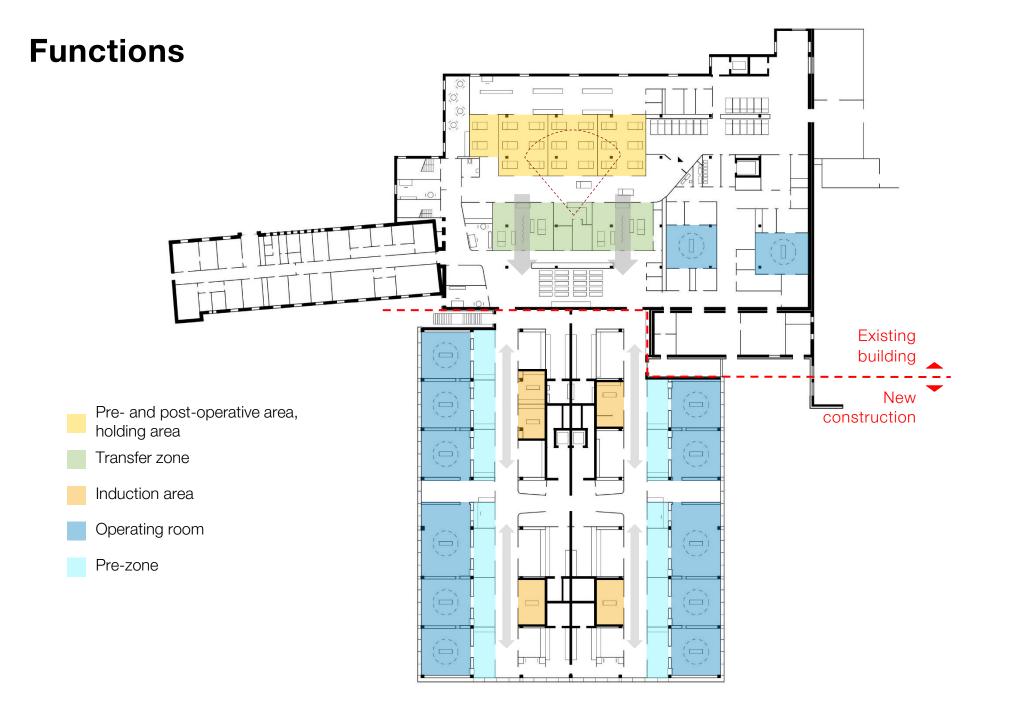
heinlewischer

Operating room

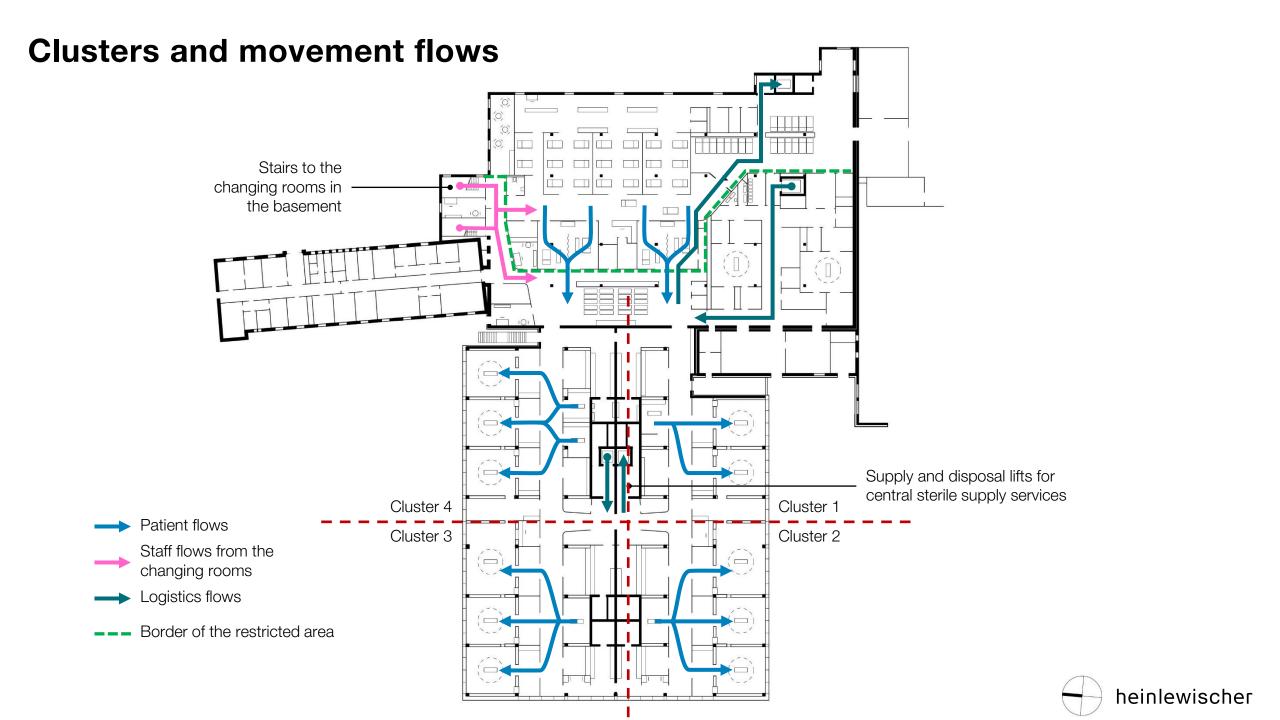






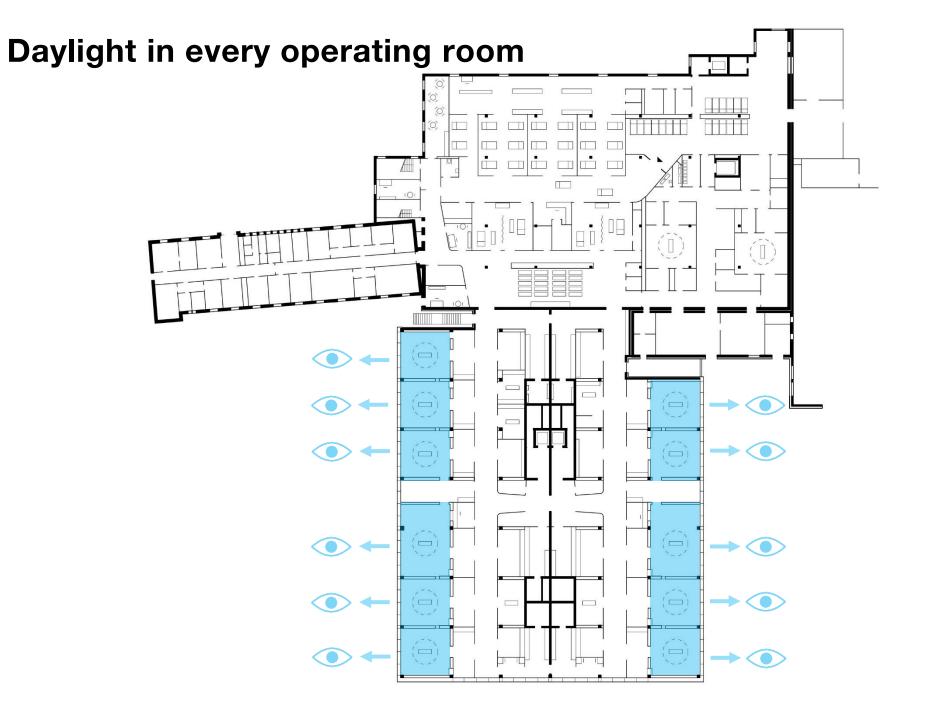






Pre-operating area of the operating rooms









Recovery room



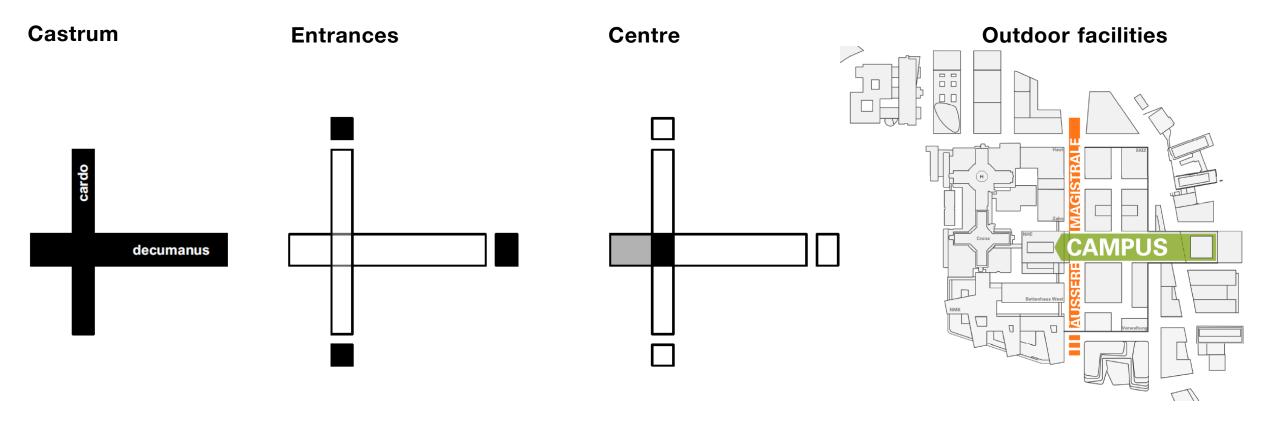


Master plan





Guiding principles



Castrum (Latin):

Roman military camp divided into four equal parts by two main streets running perpendicular to each other (Cardo and Decumanus).

Campus

- the green centre
- park-like character

Outer Magistrale

- boulevard
- urban character

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Site plan



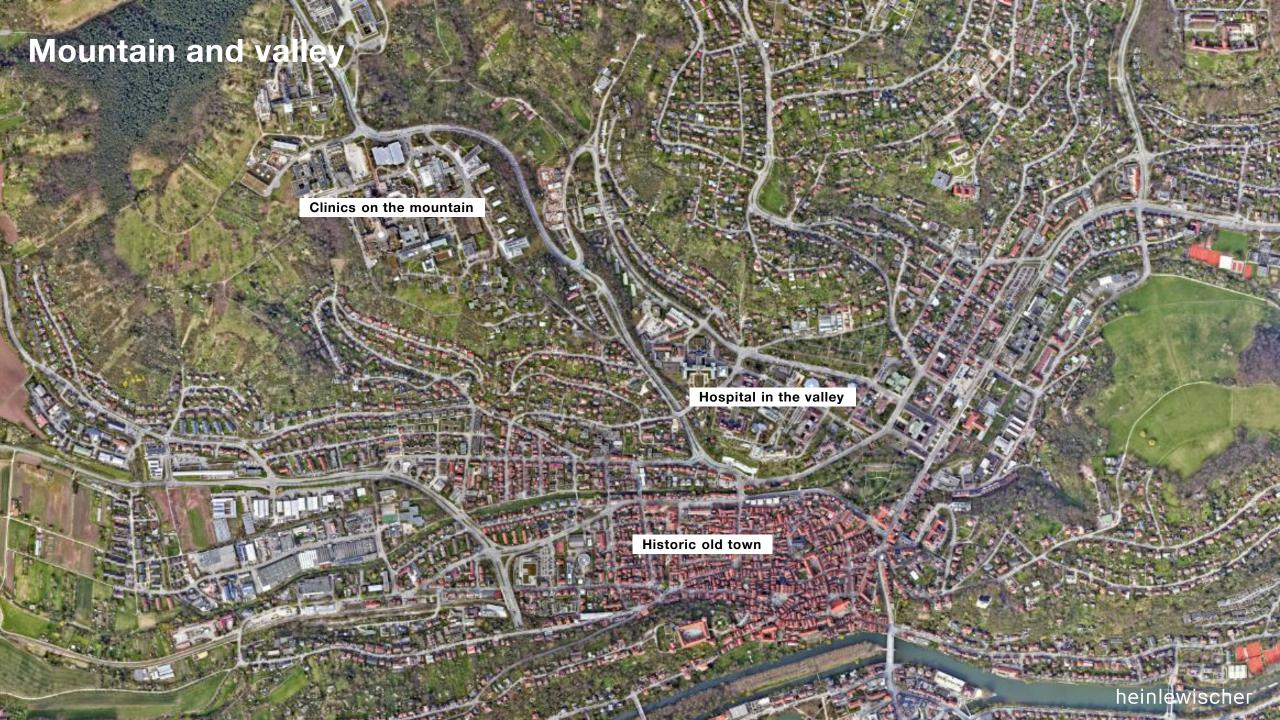
18 heinlewischer

Individual measures

- in planning (after competition)
- feasibility studies
- concept studies
- entrances

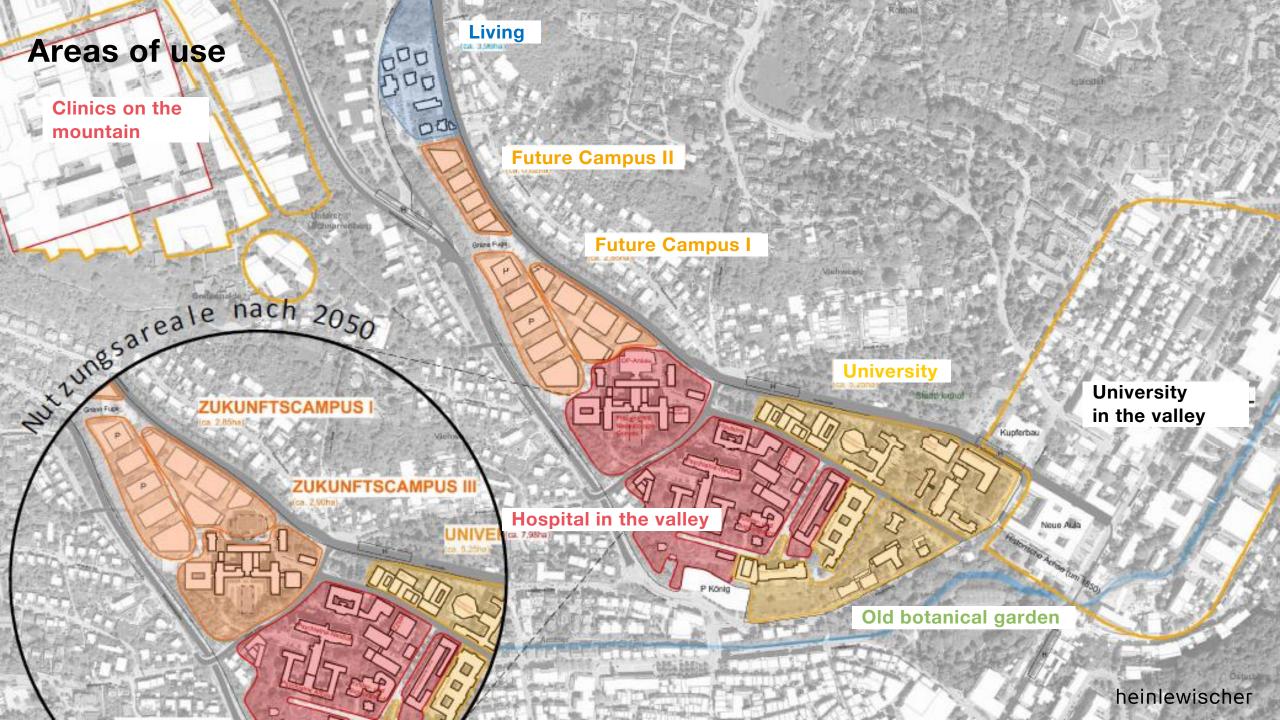








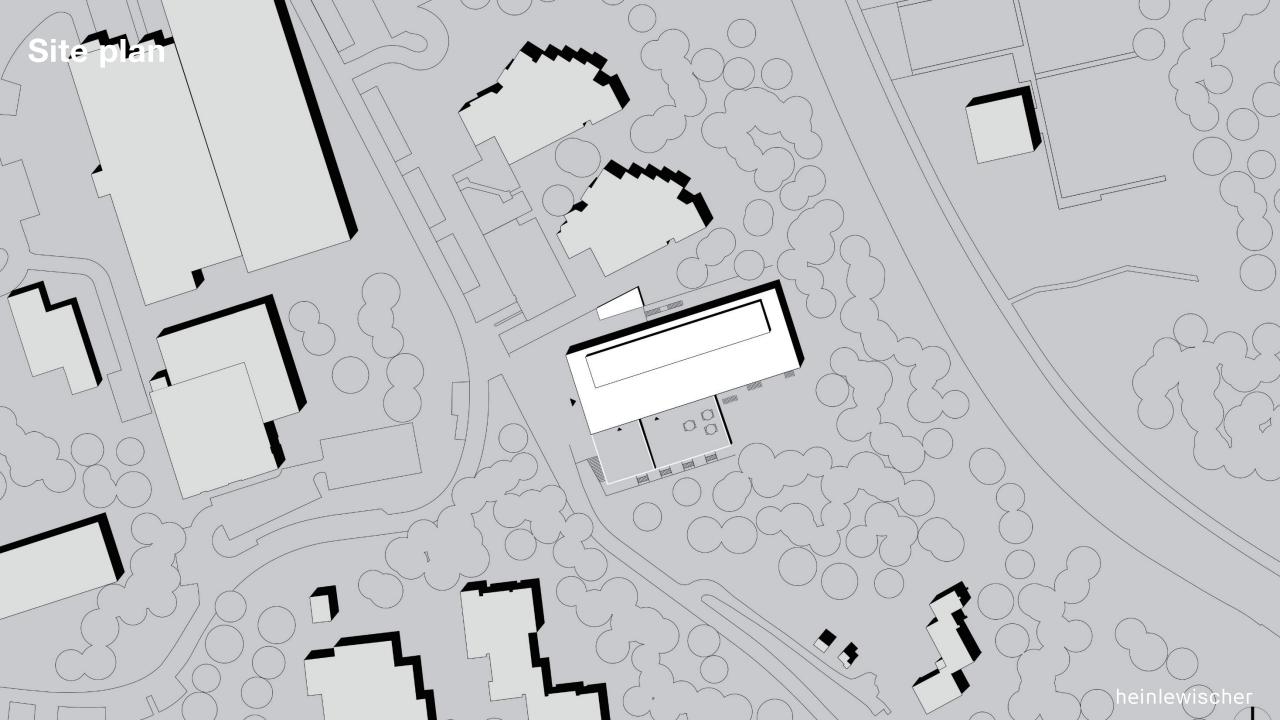




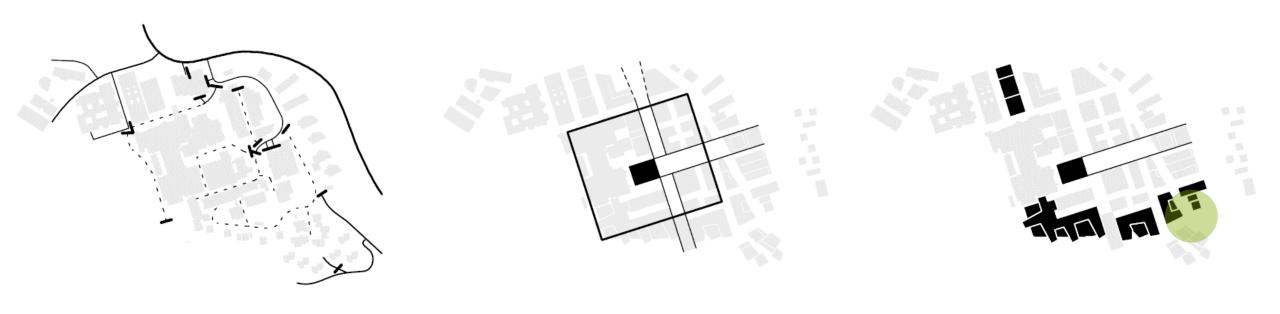


First step





From master plan to building

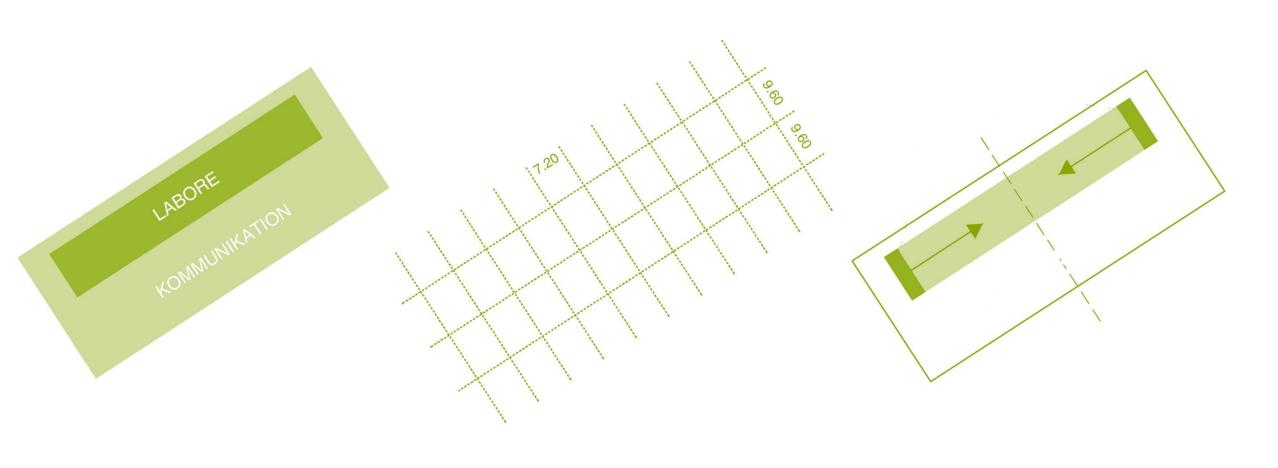


Topography and usage





Concept



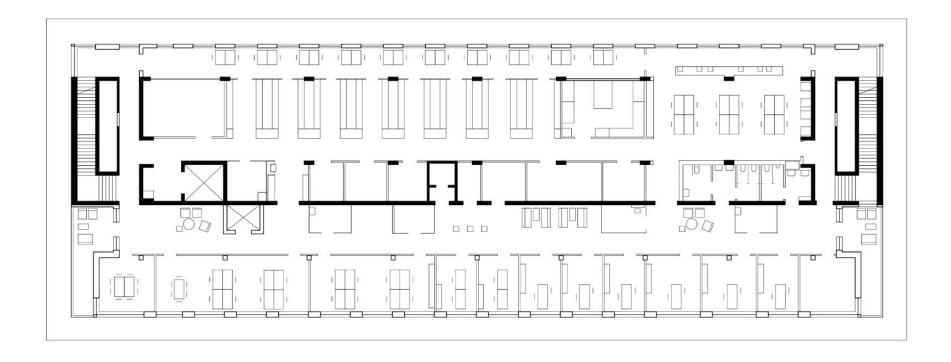
guiding principle

supporting structure

technical concept



Floor plan first floor





On the hill





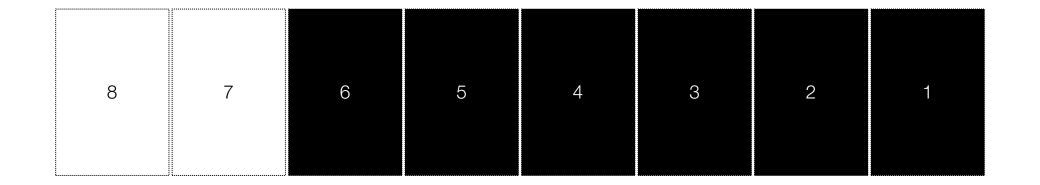




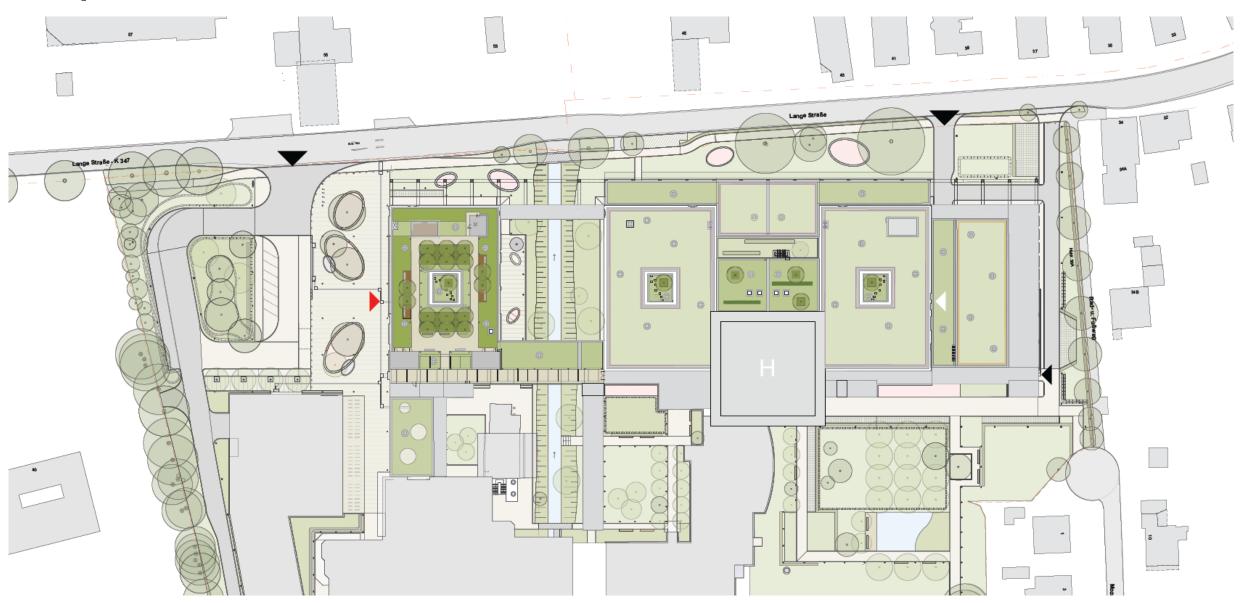
Patient room



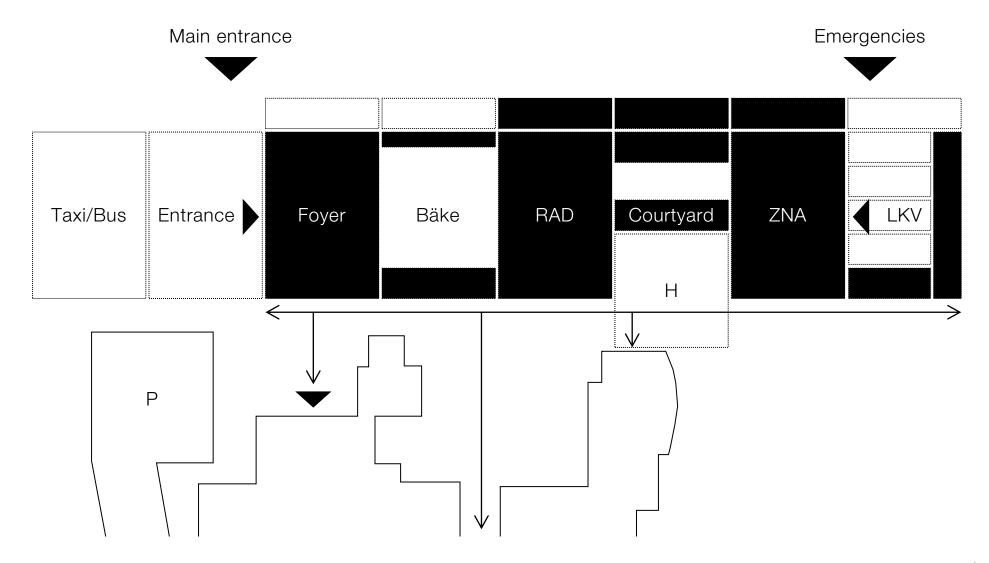
Moduls



Site plan

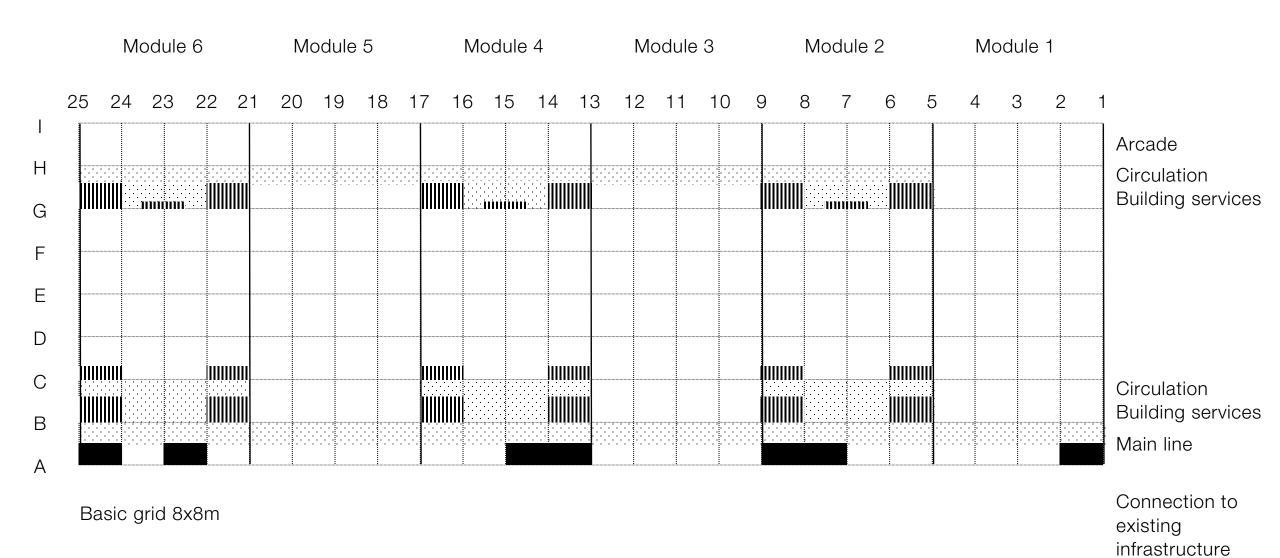


Clusters



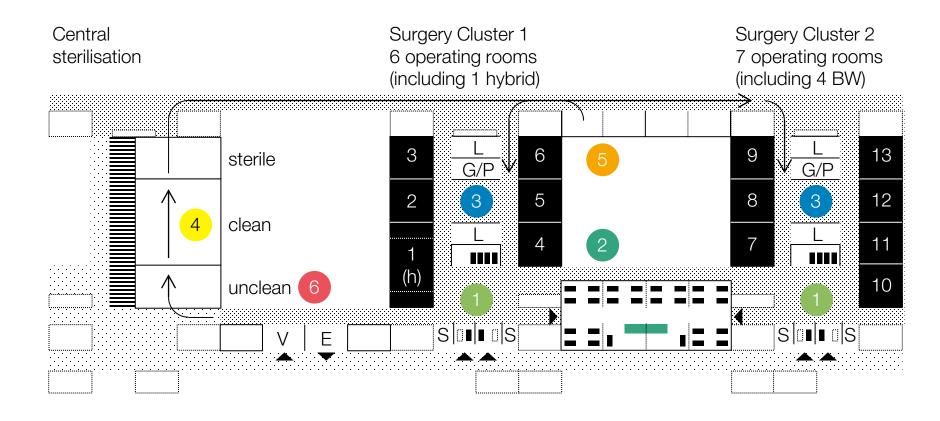
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Structure



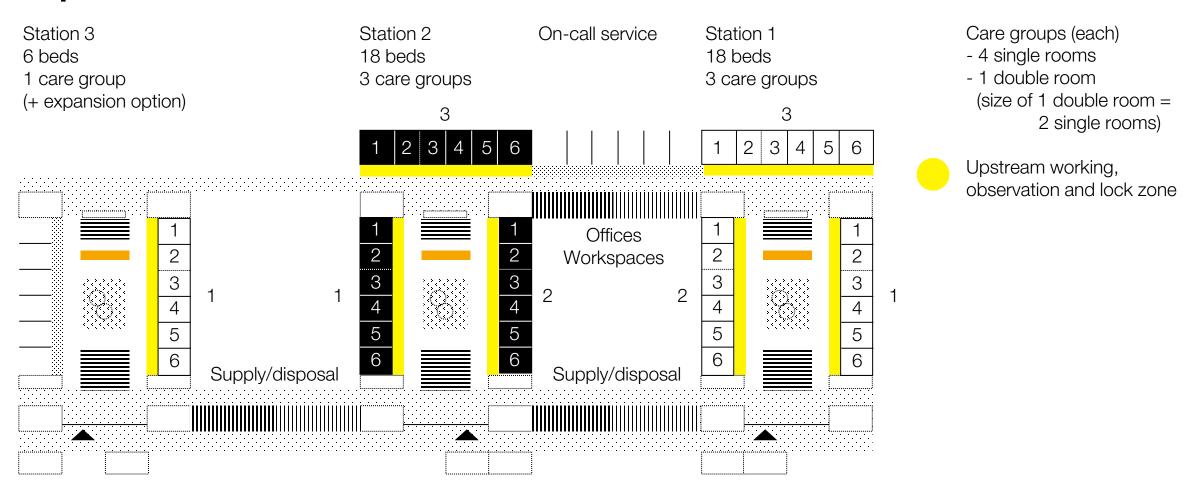


Function chart for operating rooms

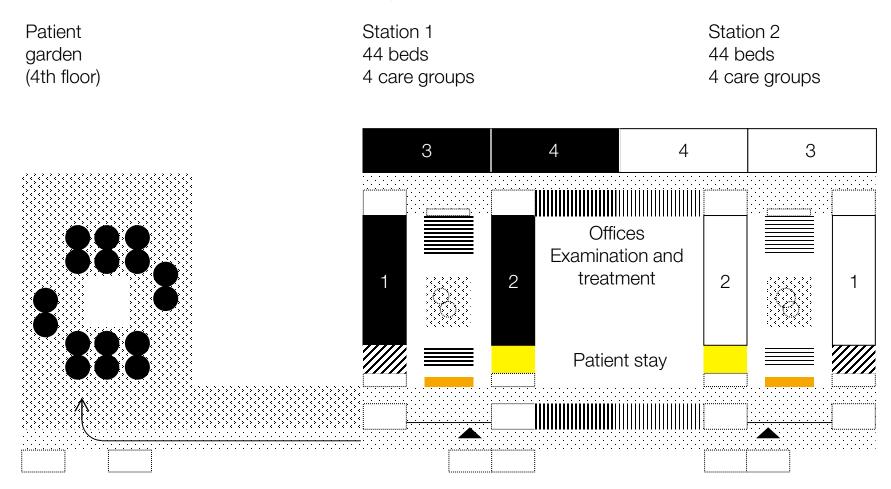


- Airlock areas (per cluster)
 - 2 transfer airlocks
 - 1 patient airlock
 - 1 special room/airlock
- 2 Holding/recovery area
 - 'Green holding'
 - flexible allocation of white/green areas possible
- 2 Central discharge points
- 4 Central sterilisation
- 5 Sterile goods storage
- 6 Supply/disposal locks

Principle of intensive care



General care principle (ring care, overflow station)



Patient room general care



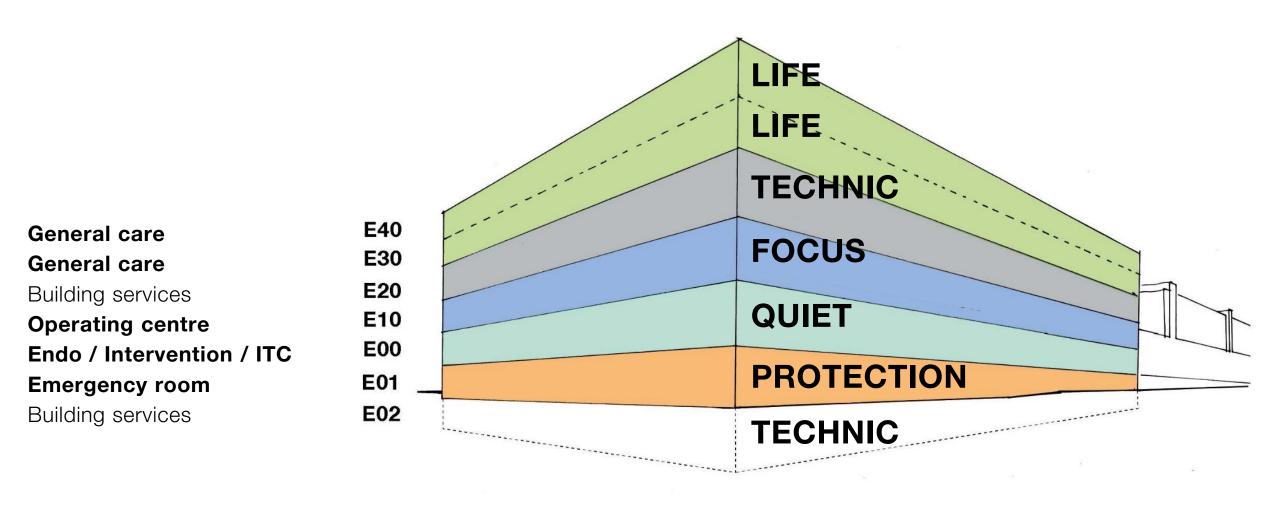


Hybrid

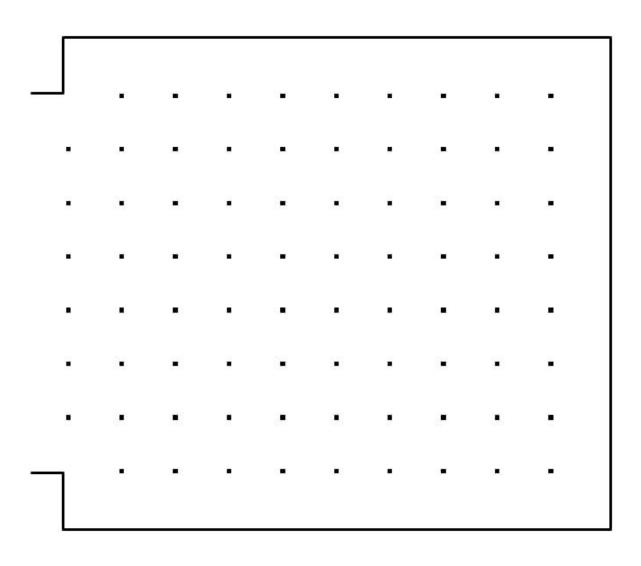




The new building as a hybrid structure

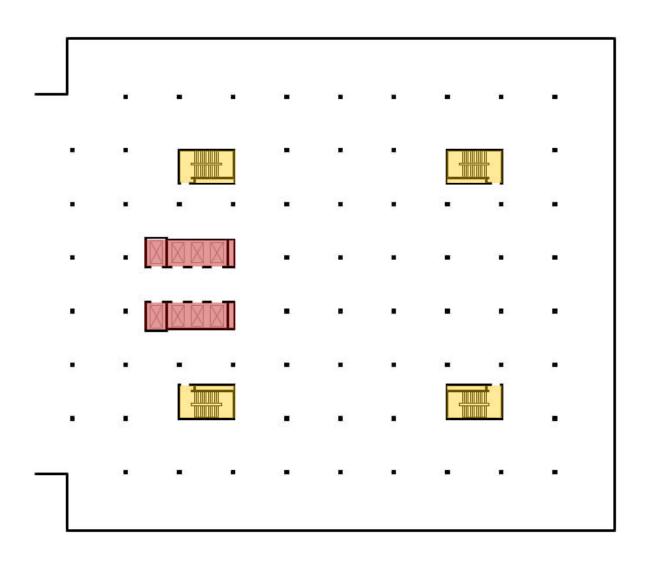


Structural order - construction



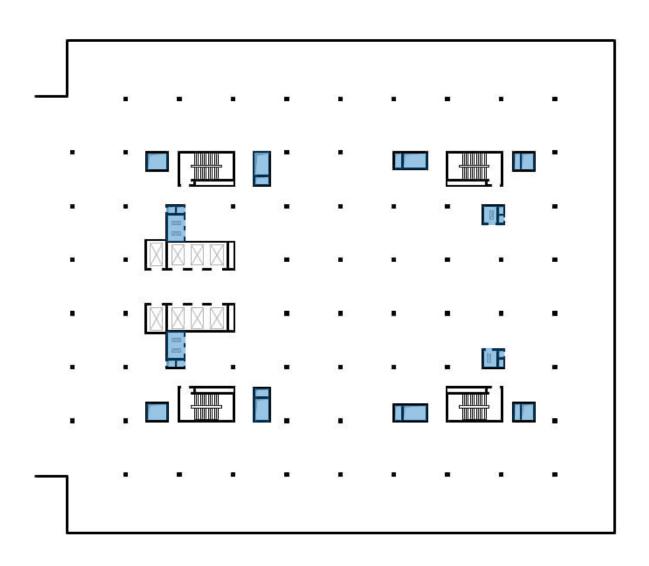
- construction grid 7.80 x 7.80 m

Structural order - circulation cores



- construction grid 7.80 x 7.80 m
- circulation cores

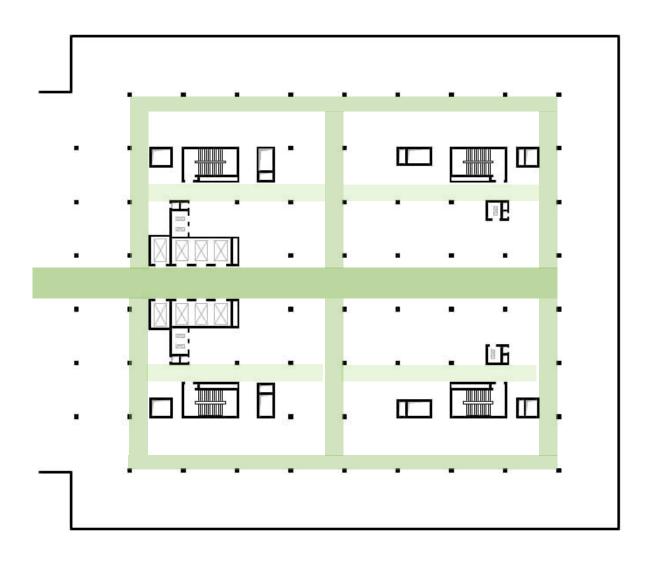
Structural order - technical building equipment



- construction grid 7.80 x 7.80 m
- circulation cores
- building services shafts

Structural order - circulation

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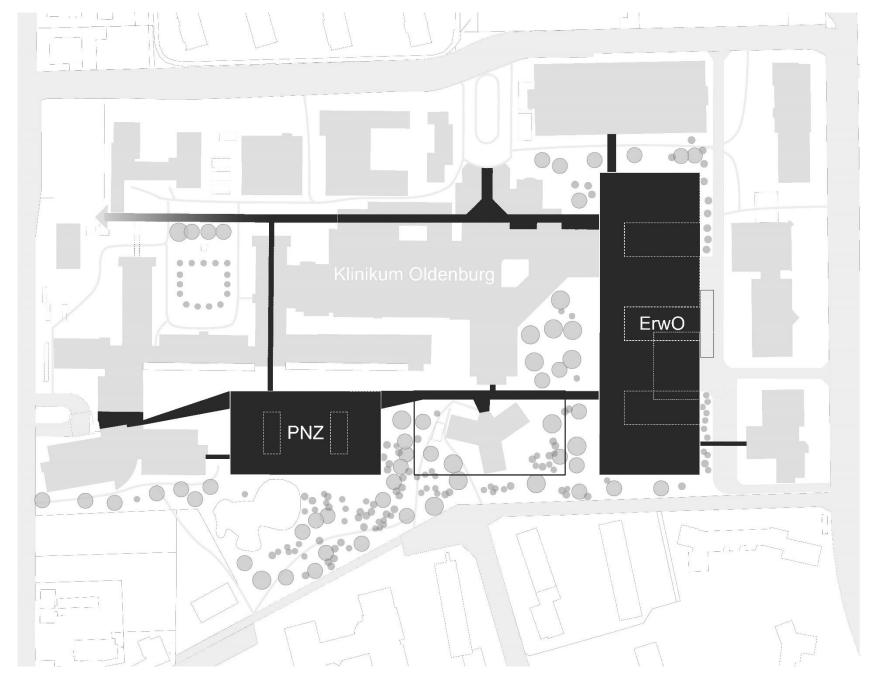
- construction grid 7.80 x 7.80 m
- circulation cores
- building services shafts
- circulation in stages



New layout



Site plan







Patient profile: Ms Keller



- 82 years old, widowed, lives alone, her son also lives in Oldenburg.
- She fell in the kitchen and her neighbour called the emergency services.
- She has bruises and is in pain after a hard blow to the head.

Journey through the emergency room

- 1 The emergency services bring her to the emergency room.
- 2 She is taken to an X-ray room for assessment.
- 3 She has a CT scan of her head.
- 4 She returns to the U/B room to wait for her results.
- 5 Her son arrives at the main entrance of the hospital.
- 6 He follows the guidance system to the control centre and is directed to her room by the staff.
- 7 She has only minor injuries and is taken home by her son.



Patient profile: Nikita



- Mrs Agarwal's husband is away on business.
- Nikita has various symptoms and it is unclear what is wrong with her.
- Nikita is stressed; she feels uncomfortable being around adult patients.

Journey through the emergency room

- 1 They arrive at the emergency room entrance.
- 2 They register and wait.
- 3 They go to the quieter U/B room at the back to get away from the older patients.
- 4 Mrs Agarwal goes to the café to get a snack for both of them while the nurse stays with Nikita.
- 5 She returns to the U/B room.
- 6 Nikita is admitted to the children's hospital because it cannot be determined what exactly is causing the symptoms.



Patient profile: Mr Dubois



- 32 years old, athletic and married.
- His wife brings him to the emergency room after he experiences breathing difficulties during training.
- He has various symptoms that are difficult to determine due to his age and health.

Journey through the emergency room

- 1 They arrive at the emergency room entrance.
- 2 They register and wait.
- 3 They go to an examination room.
- 4 He receives a CT scan.
- 5 He returns to the U/B room for further examination.
- 6 He has a heart attack and his vital functions fail. He is taken to a trauma room for stabilisation.
- 7 He is immediately taken to the cardiac catheterisation laboratory for surgery.
- 8 He is admitted to the intensive care unit for recovery and monitoring.





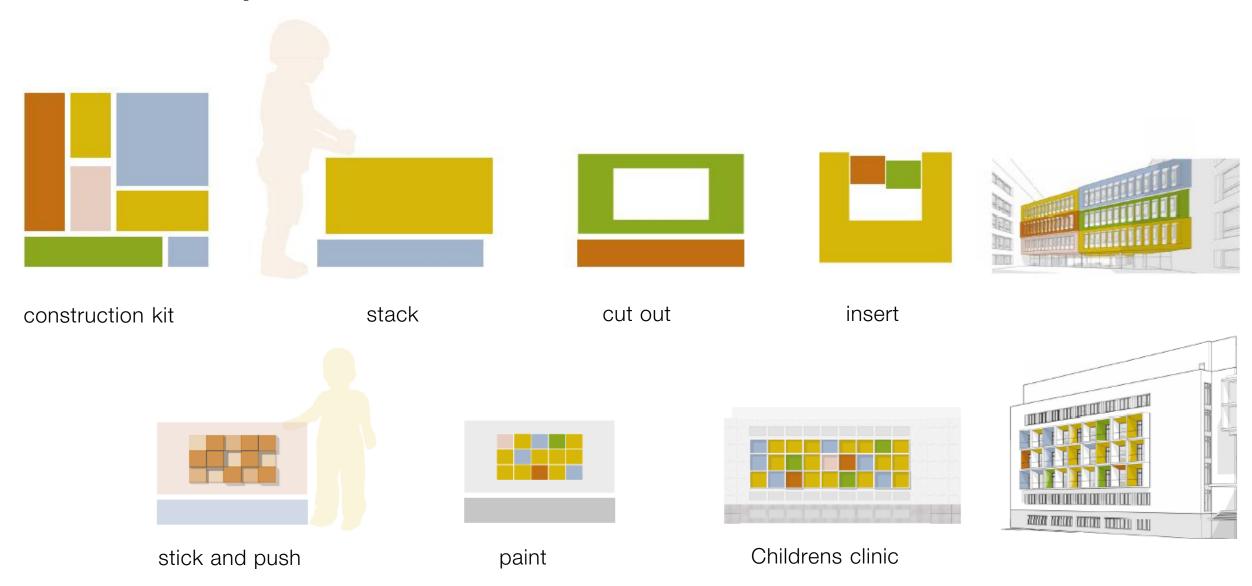
Facade



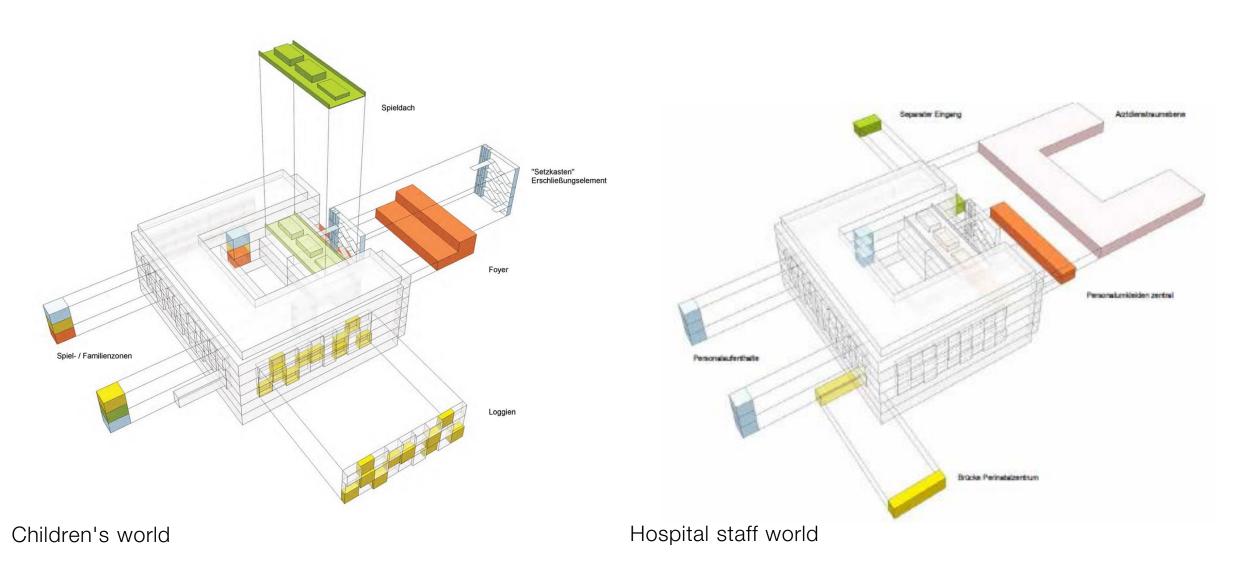




Overall concept



Stack, stick, push



Interior concept





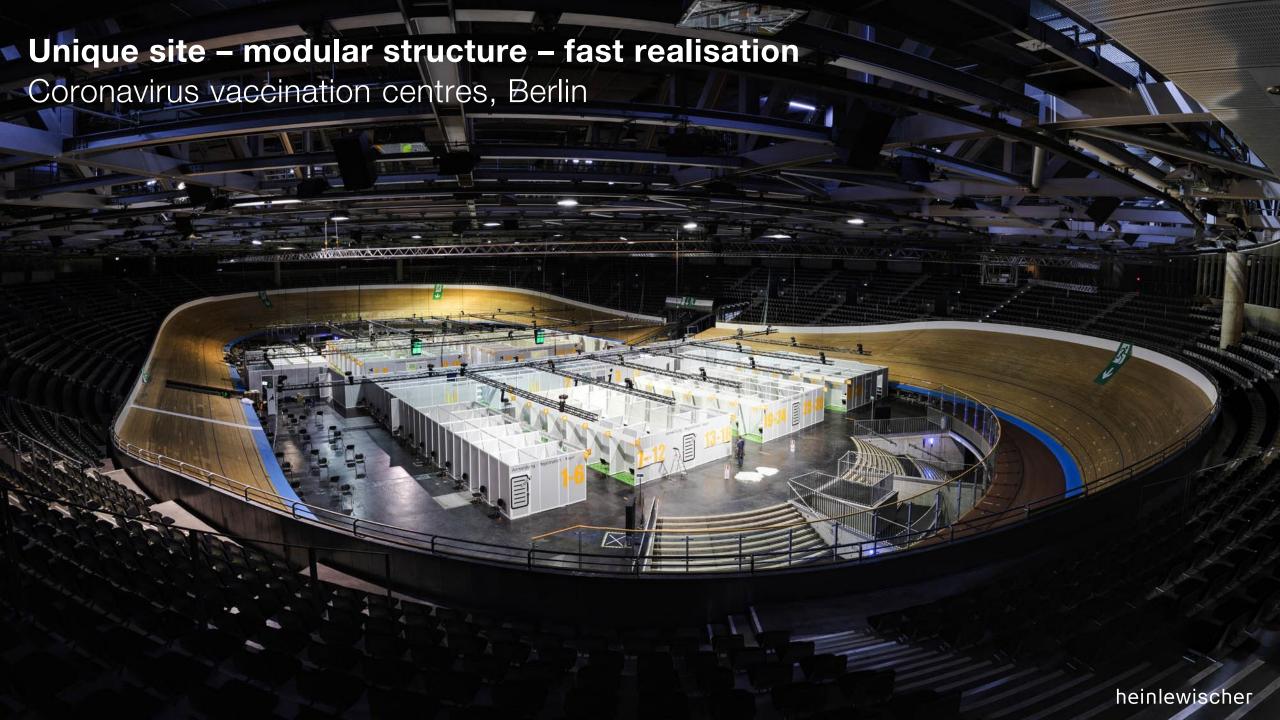
Patient room Playroom



Nearly finished



Insight



Key theses 'Design methodology'

Holistic design approach

- function, design and operational organisation in the sensitive context of a hospital

Structural and communicative synthesis

- goal: durable, efficient and people-friendly hospital architecture

Integration as a principle

 thinking of architecture, structure, technology and communication as a unified whole

Early decisions shape quality

- sustainability begins in the initial design phases

Operating Master **First** plan step room Hybrid **Patient** New layout room Facade Insight