

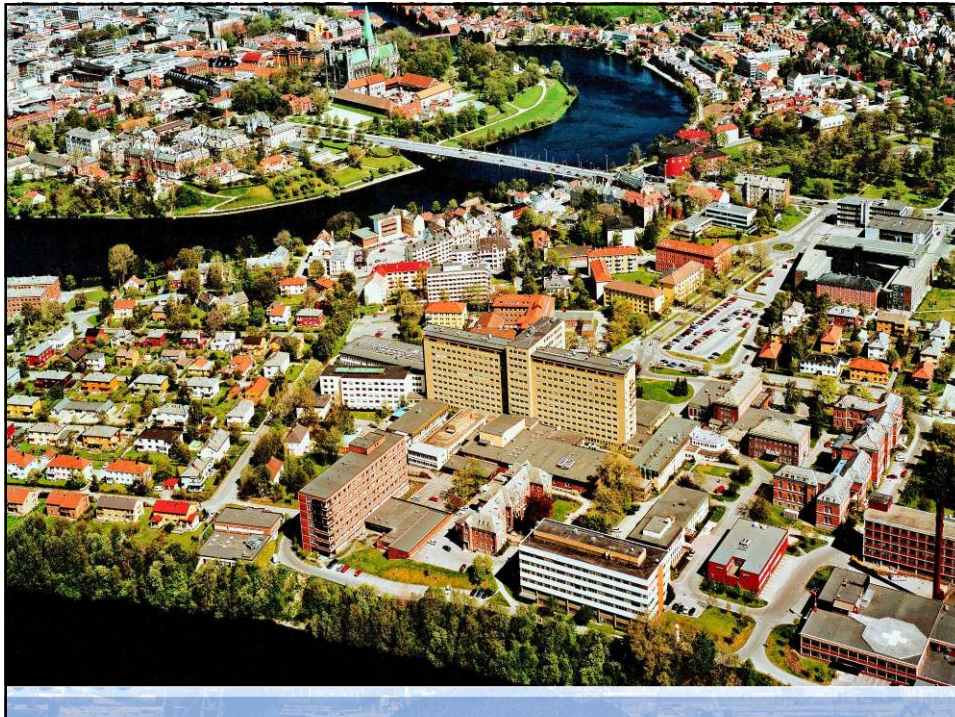
The University Clinic in Trondheim
- St. Olav Hospital
Brief Presentation


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 Helsebygg Midt-Norge





Mid-Norway Health Authority

- 600 km north – south
- 660 000 inhabitants
- 8 local hospital in 4 trusts

Trondheim University Hospital



St. Olavs Hospital

- *Regional hospital* for mid-Norway: 660 000 inhabitants
- *Local hospital* for Trondheim: 270,000 inhabitants
- 1000- beds including patient hotel and observation beds
- 1 500 outpatient visits each day
- 6000 employees at Øya

The medical faculty

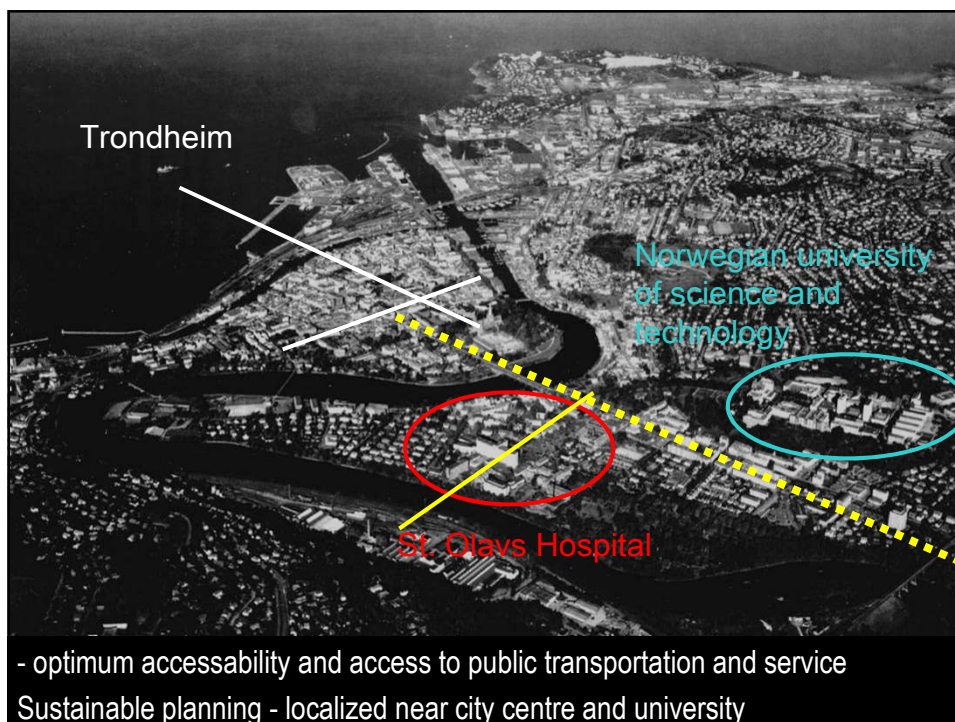
- 700 employees
- 120 medical students per year (7 years)
- 55 000 sq.m.
- 25% of total area

St. Olavs Hospital in 1995
- before the development

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Trondheim University Hospital - Key figures





Trondheim University Hospital

ORGAN BASED CLINICAL CENTRES

team based medical services

- as many services as possible close to the patient
- minimize internal transportation
- integrated patient treatment

organization acc. to clinical pathways –
cross-professional teamwork

INTEGRATED UNIVERSITY CLINIC

- problem based learning model
- arena for research and development
- close cooperation between clinic, teaching and research

"Centres of Excellence"

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Trondheim University Clinic – organization - main principles



Winning project "RIT- LÆKKERT"
International idea competition 1995
Frisk architects, Cowi & Ernst&Young

- stepwise development
- open block structure
- public streets and semiprivate courtyards
- "regular houses", form, dimensions and materials
- continuous basement (culvert) and 3.rd floor (also 3rd floor, later)
- green axis and integration to surrounding streets
- spare area on all developed lots as well as lots made available by demolition

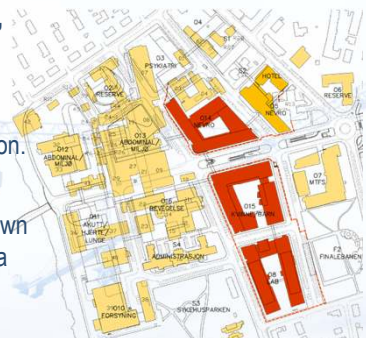
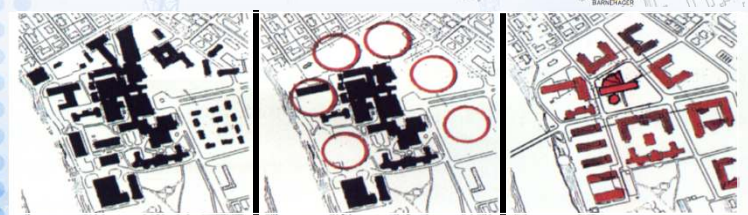
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CITY PLAN – main principles - "medical neighborhood"

“BUILD - DEMOLISH – OPERATE”

The new university clinic is built in stages around the old hospital which remains in full operation.

When the building process is over, the last hospital buildings are torn down to liberate over 60 000 m² spare area centrally located

at the beginning process 2000 - 2014 Helsebygg Midt-Norge

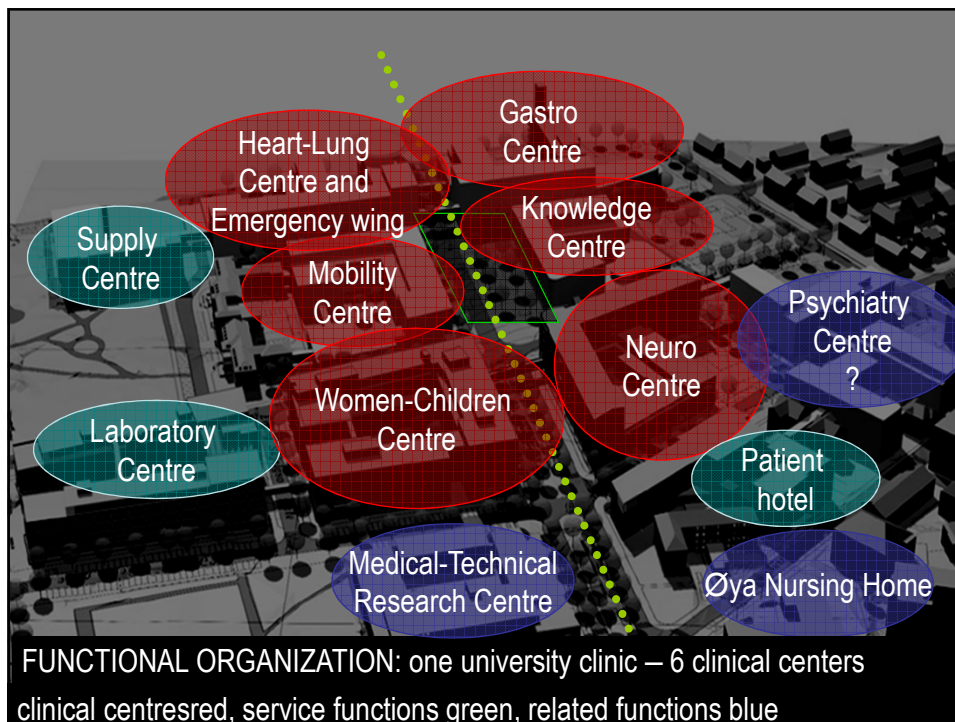
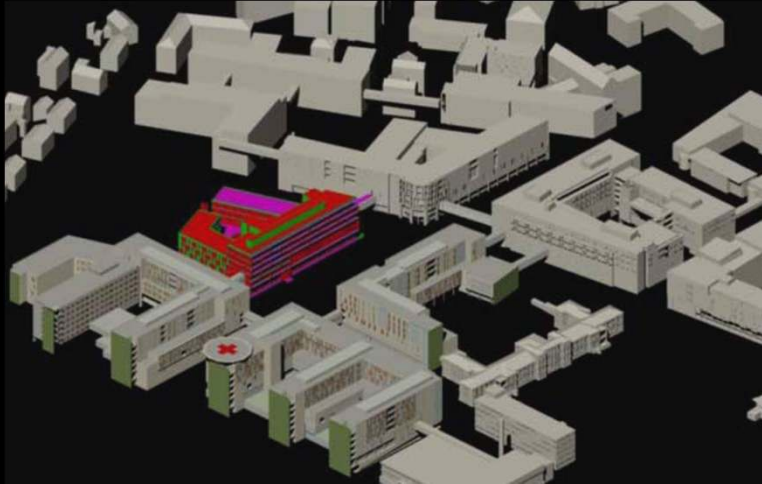
SUSTAINABLE CITY DEVELOPMENT - concept of development

>95% recycled or recovered



SUSTAINABLE DEVELOPMENT - Recirculation and environmentally friendly demolition

Knowledgecenter



Psykiatrisenter – konkurranse 2004

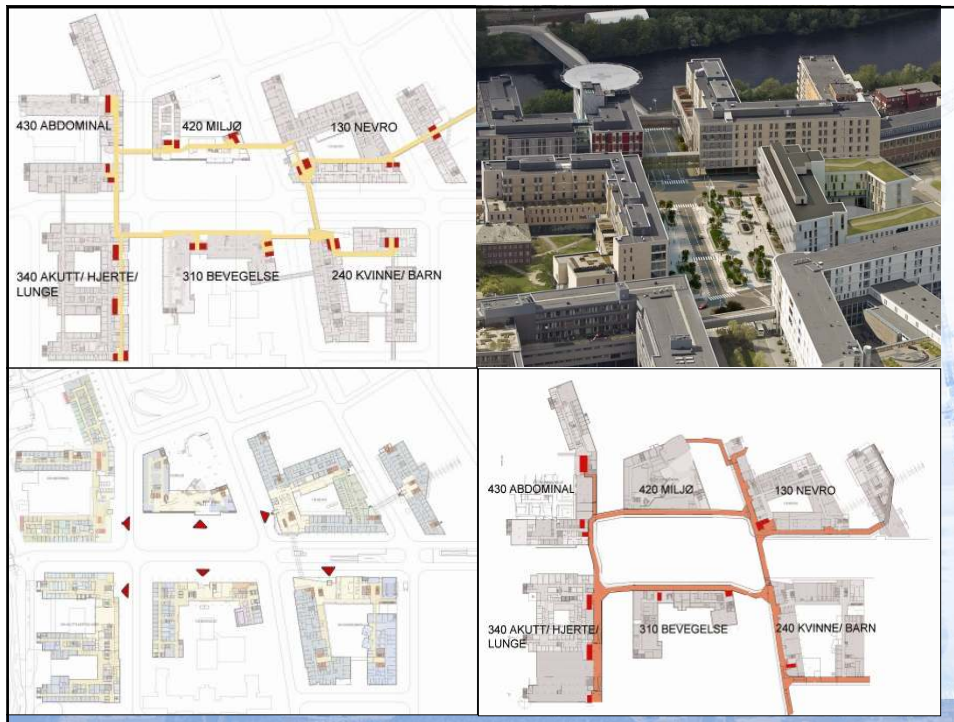


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St. Olavs Hospital 2013

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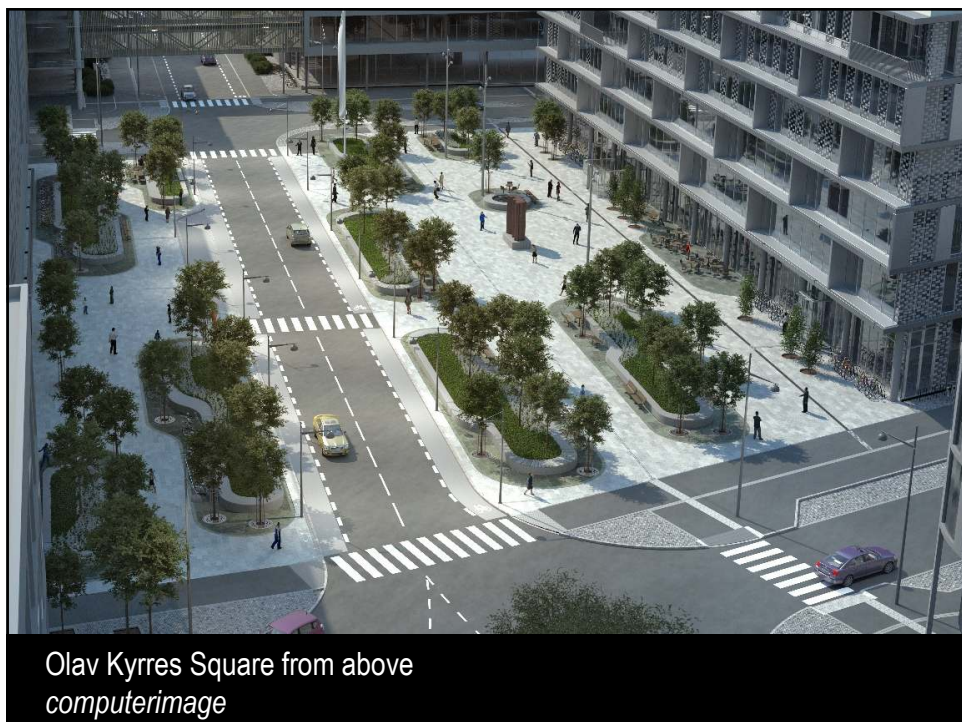
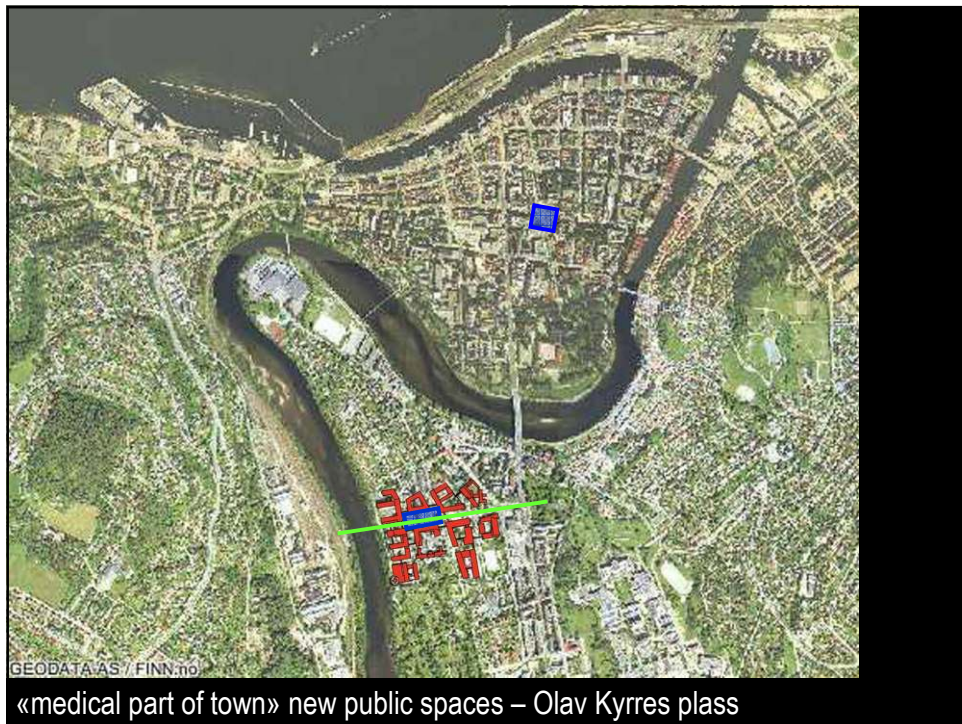


Transportation Principle

Health care providers should not be involved in supplies, using time which could be spent on patient related activities – unless their expertise is needed.

Tecnology

- Automatic Guided Vehicles (robots for transportation)
- Automatic waste handling
- Pneumatic tube systems/ Pill picker





Olav Kyrre Square with Knowledgecenter
computerimage



"medical neighborhood" — corner at Olav Kyrre's plaza

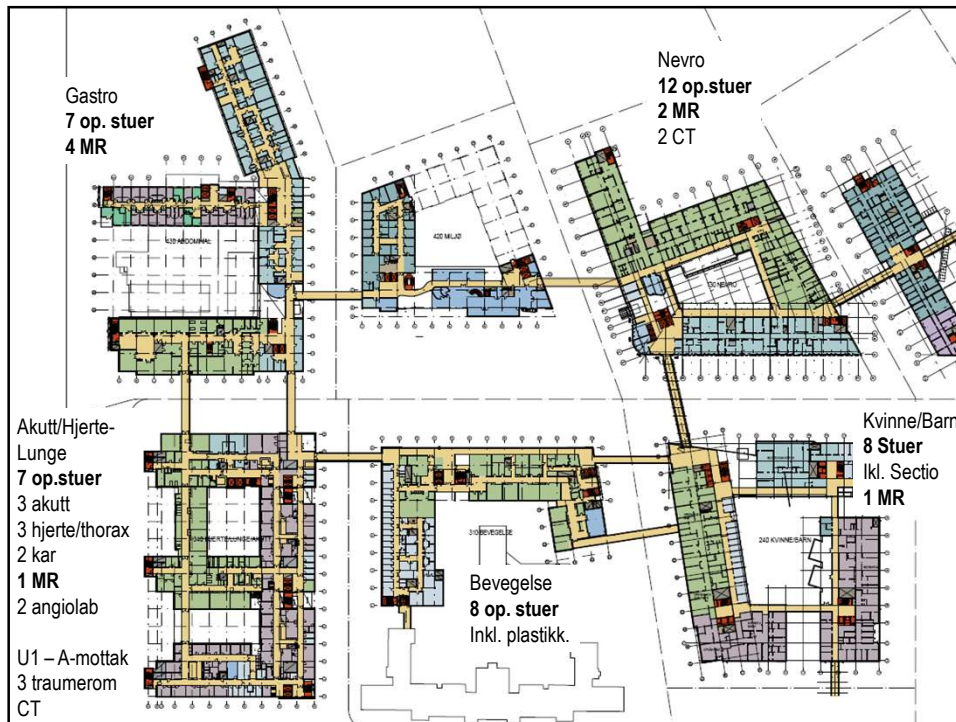


«medical neighborhood»



"medical neighborhood" — new public areas - Women-Children Centre cafeteria





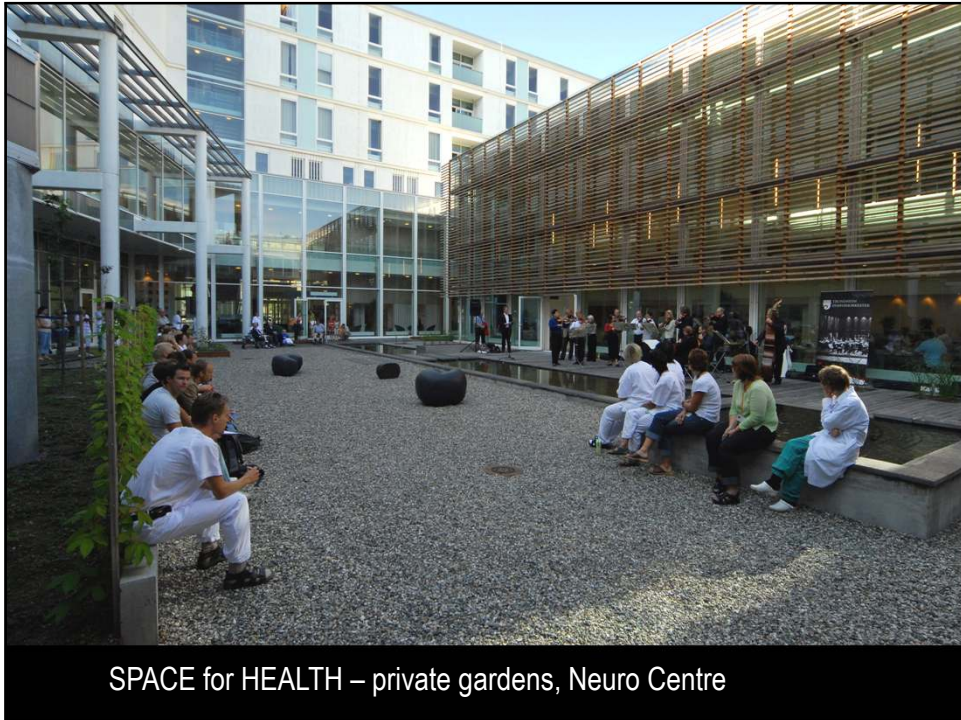
SPACE for HEALTH – private gardens, Women & Childs Centre



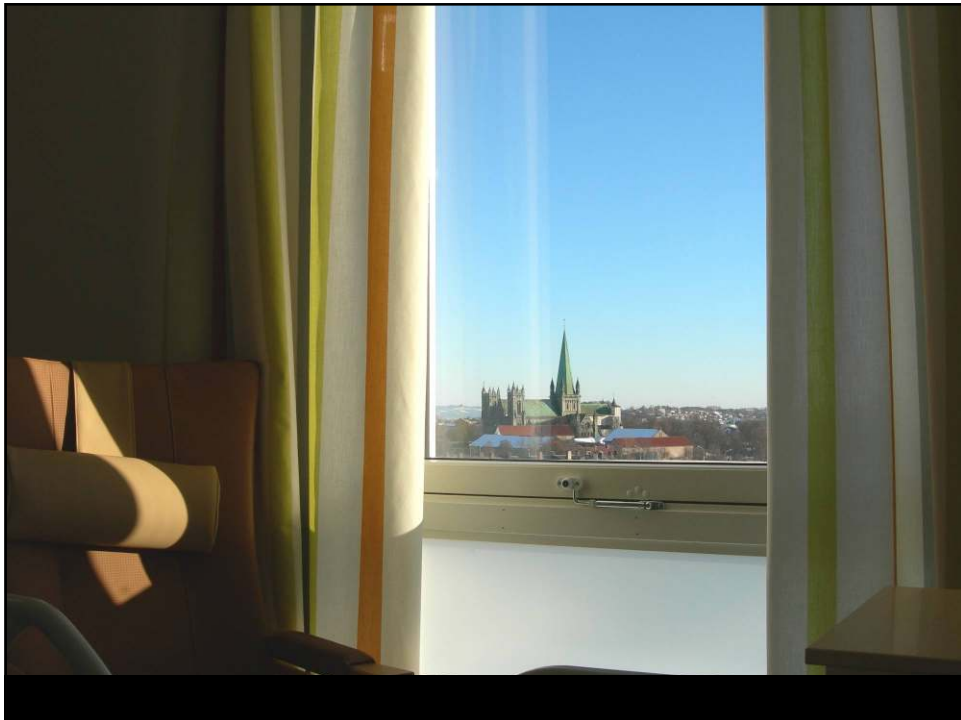
SPACE for HEALTH – private gardens, Laboratory Centre



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SPACE for HEALTH – private gardens, Neuro Centre

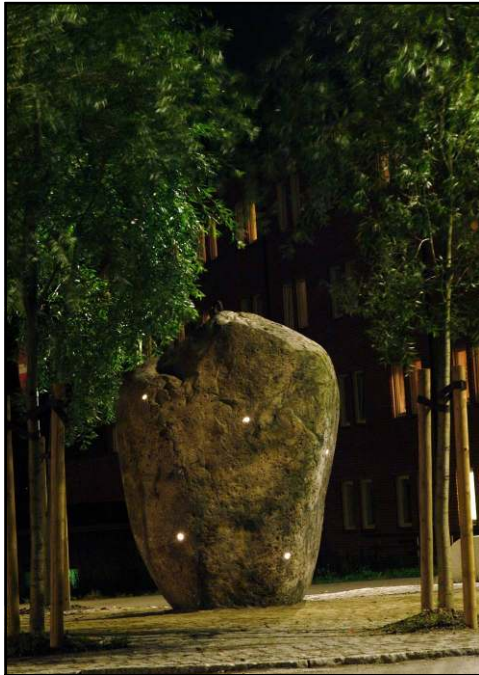




GREEN HOSPITAL – ecological pond in the hospital park



GREEN HOSPITAL - the willow commons in Olav Kyrre's street



“nature alone cures”
Florence Nightingale

Nature meets technology — “surgically enhanced stones” by Kåre Groven



NORMALITY - Daylight, view and natural materials, Blood bank donation room



Daylight and view for rehabilitation, Spinal unit





Patient participation
- main issues:

Stronger **protection of privacy**
during hospital stay
- Single patient rooms

Easy **access to staff**
- Open receptions etc.

Accessibility for all
users/patient groups
- Universal design

Involving patient organizations
- Training is needed to act professional
and represent the patient perspective



NATURE



CONTACT



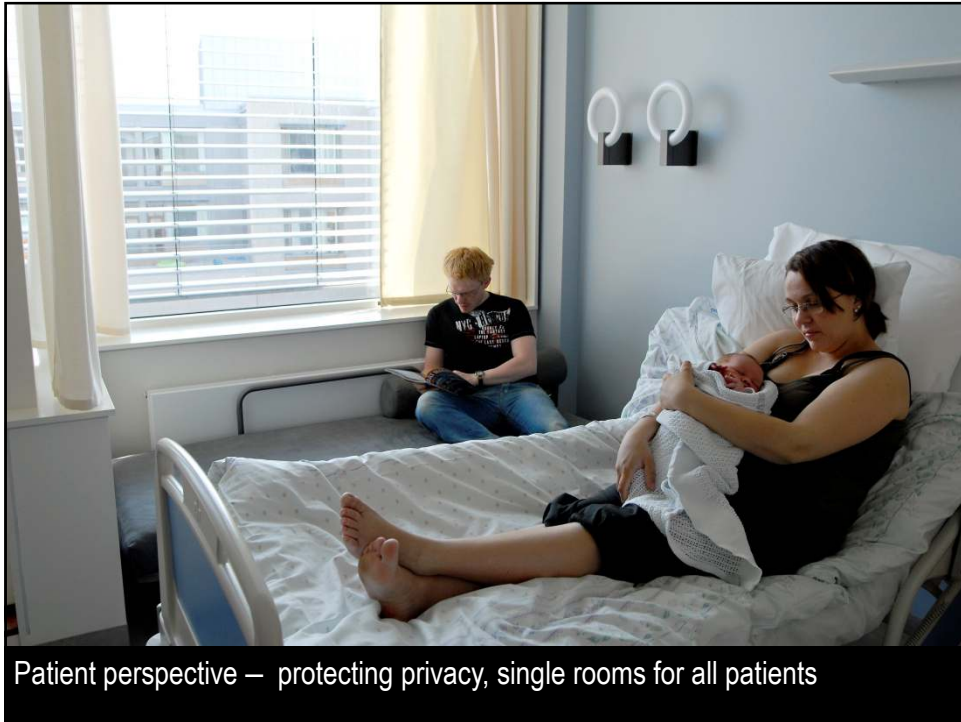
SINGLE ROOMS, VIEWS, ART

HEALING ENVIRONMENT- patients need:

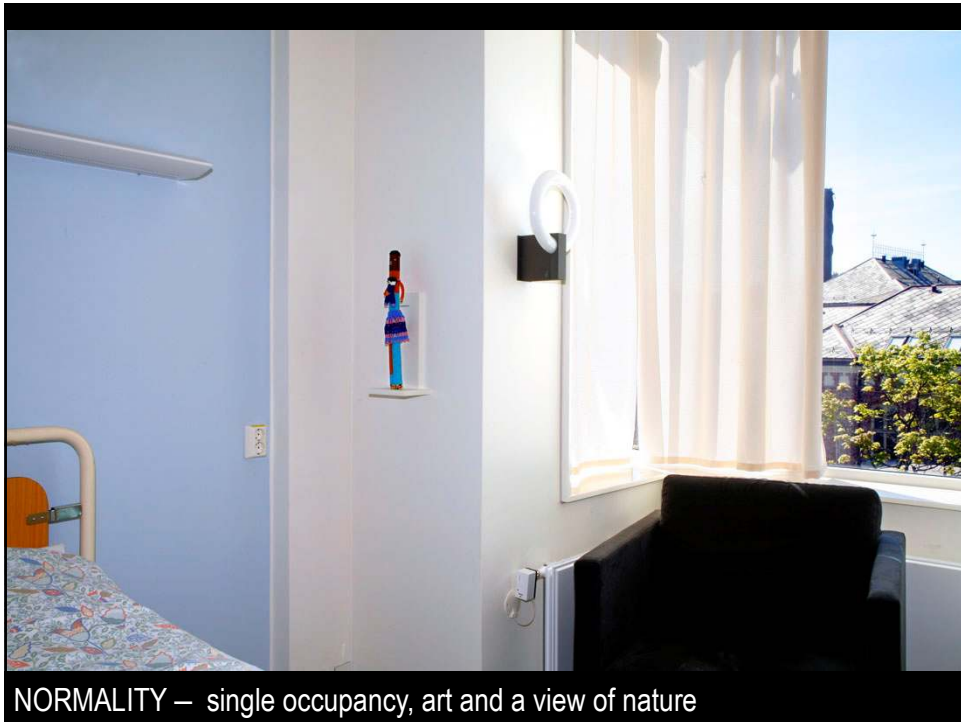
- a feeling of control
- easily available personell contact
- contact to nature and other factors which yield a positive experience or engage your attention in a positive way

Single rooms is the best way to ensure patient control, privacy and contact with next of kin.

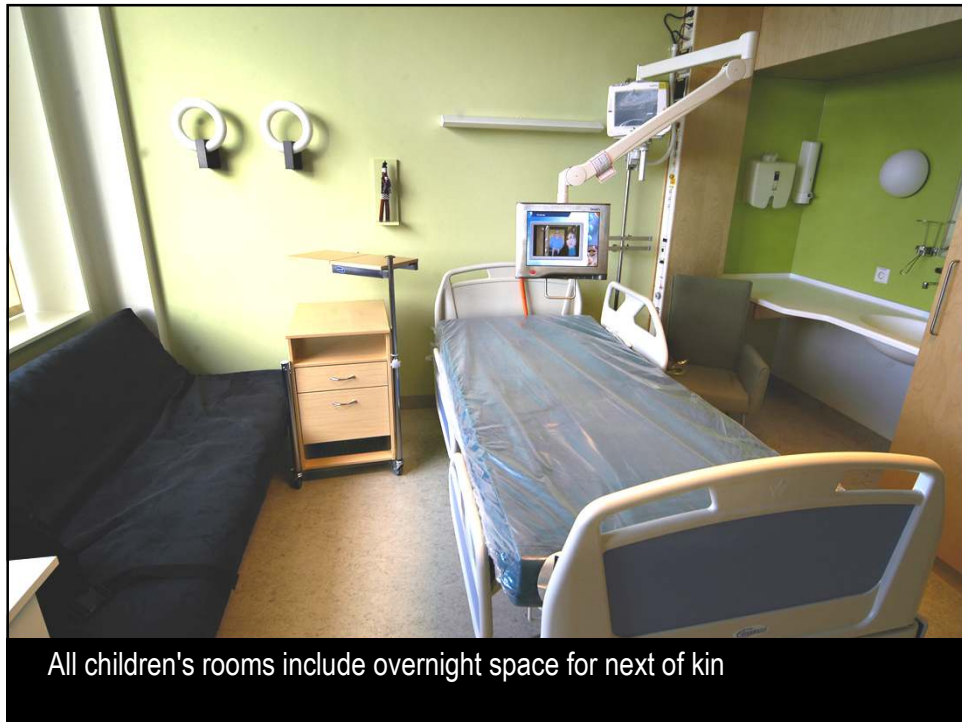
Elements of 'Evidence based design' — Roger Ulrich



Patient perspective — protecting privacy, single rooms for all patients

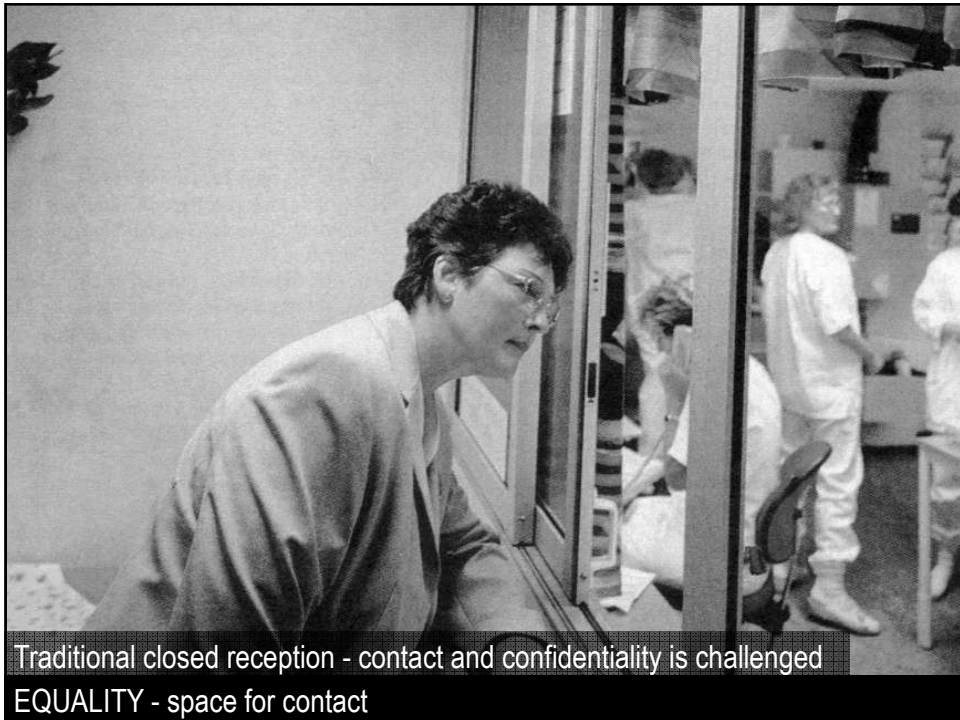


NORMALITY — single occupancy, art and a view of nature

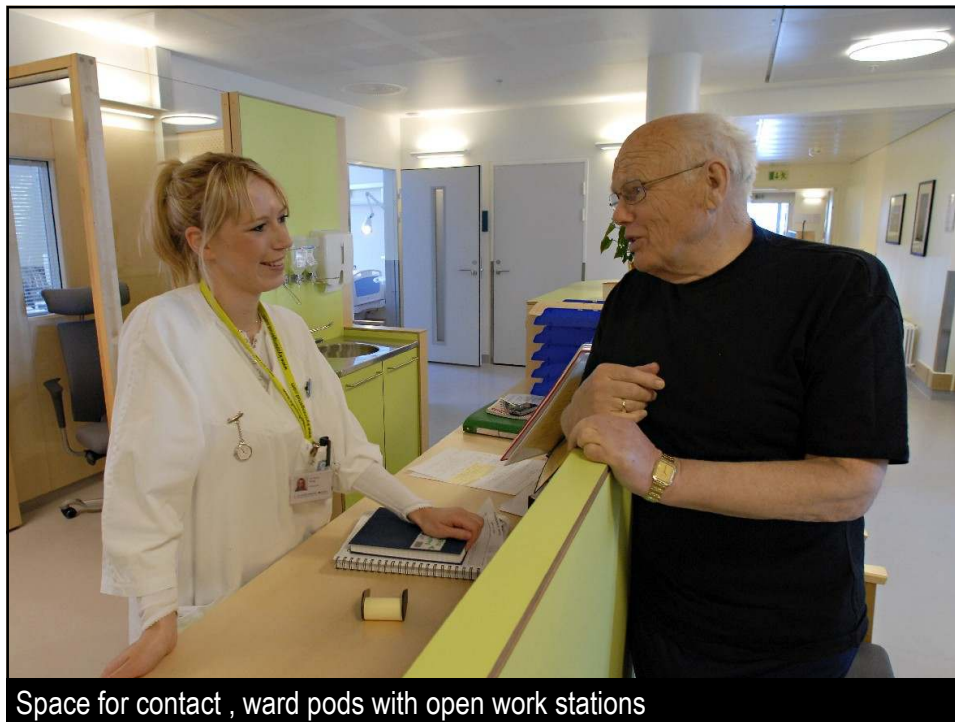




order - calm - natural materials



Traditional closed reception - contact and confidentiality is challenged
EQUALITY - space for contact



Space for contact , ward pods with open work stations



THE PATIENT PERSPECTIVE – open receptions and counters
Openness and equality

