Elderly Care Home
A home for dementia patients
1. Project
2. Site
3. Urban intervention
4. Building
a home for elderly with dementia in an existing monastery
a place of residence for elderly who require nursing care often in a hospital environment, but the trend is shifting towards small-scale living
256,000 dementia patients currently in NL, DOUBLE that in 2040...

lack of funding for elderly care...
domestic care for dementia patients is often not appropriate because they need care throughout the whole day...
reduced funding from the government means many nursing homes have to down, forcing the patients to stay at home...

*currently, 70% live at home, 82% of carers are overburdened...*
dementia

impairment of

memory
communication
judgment & reasoning
and increased stress levels
implications for design

what kind of qualities does the building need to accommodate to the dementia patients?
implications for design

protected living environment
a sense of autonomy and freedom (tend to walk alot)

orientation and familiarity

mental, physical and social activity are beneficial to slow down the process of dementia
broederklooster (j.p.l. hendriks, 1964)
on the edge of a sub-urban and urban areas
post-war architecture
change in the urban structure and typology by intervention with post-war architecture on bombed sites
character of the monastery
Broederklooster (J.P.L. Hendriks)
//site

Broederklooster (J.P.L. Hendriks)
current situation
‘complete’ the monastery courtyard building
//urban intervention

new urban plan
//building

...
program

floor 0 - elderly community & daycare centre

floor 1 - living groups & chapel / event space
//building

program

door 3- living group

door 2- living group

door 1- living group

floor 0- elderly community & daycare centre

section B  ante room  courtyard  library corridor
dementia: **mobility**, the need to wander around... how do deal with this?
loops around courtyard; reduced barriers; roof terrace completes loop at floor 1
encourage mental, physical and social activity... how?
different communal spaces as part of the corridor/route; sitting areas at dead-ends
impression: living room
cognitive impairment & disorientation... how can architecture be helpful?
different characters of spaces through differences in the ceiling, material, and distinction in the position of structure in the corridors; no corridor is the same
different characters of spaces through differences in the ceiling, material, and distinction in the position of structure in the corridors

section B
impression: exercise room corridor
//building

impression: library corridor
structure: grid
/building

structure: loadbearing facade
structure: stability
structure: roof

floor 2
climate: summer situation (day)

cooling:
- concrete core activation

ventilation:
- natural ventilation
- mechanical suction
- mechanical ventilation in larger communal spaces on the ground floor on

shading:
- facades on north side are ‘pushed’ towards the outside
- facades on the south side are ‘pushed’ a bit more towards the inside, reducing daylight penetration;
- sunshading device for control
climate: summer situation (night)

cooling:
- lowered cooling-load

ventilation:
- natural ventilation
- mechanical suction
- mechanical ventilation in larger communal spaces on the ground floor off

//building
climate: winter situation (day)

healing:
- concrete core activation

ventilation:
- less natural ventilation to prevent condensation (concrete core activation)
- mechanical suction
- mechanical ventilation in larger communal spaces on the ground floor on
building

climate: winter situation (night)

healing:
- concrete core activation

ventilation:
- less natural ventilation to prevent condensation (concrete core activation)
- mechanical suction
- mechanical ventilation in larger communal spaces on the ground floor off
//building

facade: streetside

existing monastery

new volume
//building

facade: streetside
//building

facade: streetside
//building

facade: courtyard

existing monastery

new volume
//building

facade: courtyard
facade: courtyard
impression: terrace
impression: courtyard
Thank you for your attention!
Questions?