Introduction

Stefan Lechner

• Teacher School of Facility Management
• Researcher Facility Management Research Group
• Project leader Health Space Design
Student research current semester

4 students, facilities in palliative care

10 students, transform municipality hall into nursing home for dementia

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This presentation: innovation lab

• Adhesives with images on front doors in a nursing home
• Simulation research in a hospital
• Textile rug in nursing home
• Gerontologic simulation suits

• Field visit today: wayfinding in a hospital
Health Space Design in numbers

40+ multidisciplinary projects
10+ schools, i.a. facility management, psychology, human technology, architecture, fine arts, real estate, law, accounting
10+ health care institution, i.a. hospitals, nursing homes for dementia and also for mentally disabled, and others
10+ consultancy SME’s
Adhesives on room doors

- Where: wing in nursing home for dementia
- What: improve feeling at home
- How: small scale intervention (n=5)
- Feeling at home is: privacy, autonomy, wayfinding, orientation, independence, safe

• Effect: improved feeling at home, positive on privacy, autonomy, wayvinding and orientation
Simulation research on patient consulting rooms in hospital

- Mock-up consulting room
- Video-analysis with Atlas.ti (software qualitative analysis)

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www.wilypeetsma.nl
Healthy ageing and encourage exercise

Rozemarijn Groenewold, 2014
What is a GERT suit?

• A GERT-suit is a GERontologic Test suit, or a simulation suit
• Delivers the experience of feeling old and experience of restrictions of ageing
Restrictions

- Loss of sight and hearing
- Stiffness of limbs
- Narrow sight
- Restriction of head movement
- Reduces grip and coordination
- Reduced muscle power

  Foto: student in een GERT-pak
Scientific research with GERT-suits

• Complex routes in a hospital
• Measurement of i.a. speed, distance, heart and respiratory rate

findings:
• Complex routes less efficient
• Lower speed, higher heart and respiratory rate, energy use
• Take findings in consideration in layout

Zijlstra et al., 2016
Our field visit: problem: wayfinding in hospital

New parking garage

How from A to B?
Bottlenecks and solutions

Three bottlenecks  Minimal solution  Optimal solution

(Koehorst & Meinsma, 2014; MacDonald, 2005)
‘cloud route’

‘forest route’

Seidel & Feenstra, 2014

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Abundance of information

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Uijtewaal, Wolff, & Idsinga, 2014
Do you remember the parking entrance?

Do you remember Schiphol? The Mijksenaar wayfinding design?
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