i|Home|Lab

HOCHSCHULE
LUZERN

Smart homes for the future: iHomeLab

5th international carers conference
8th..11th july, Leeds, UK

Prof. Alexander Klapproth, Head of iHomeLab

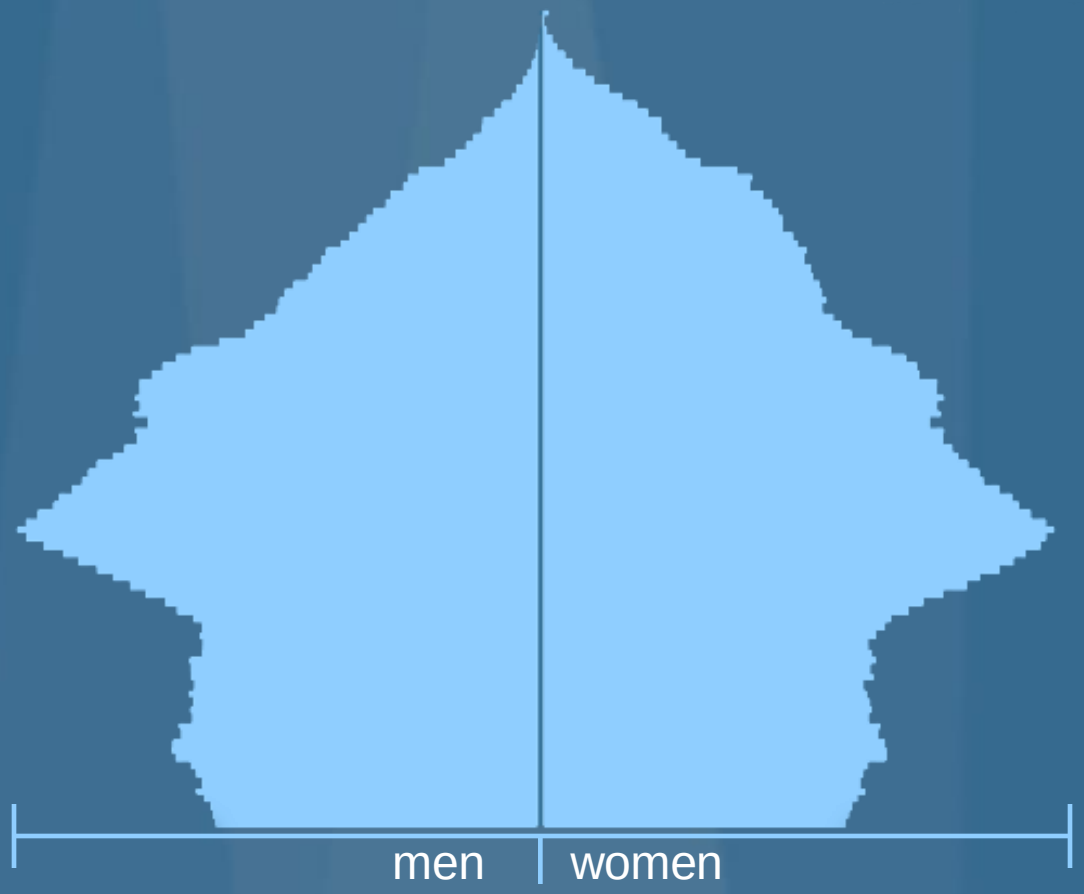
comfort

energy efficiency

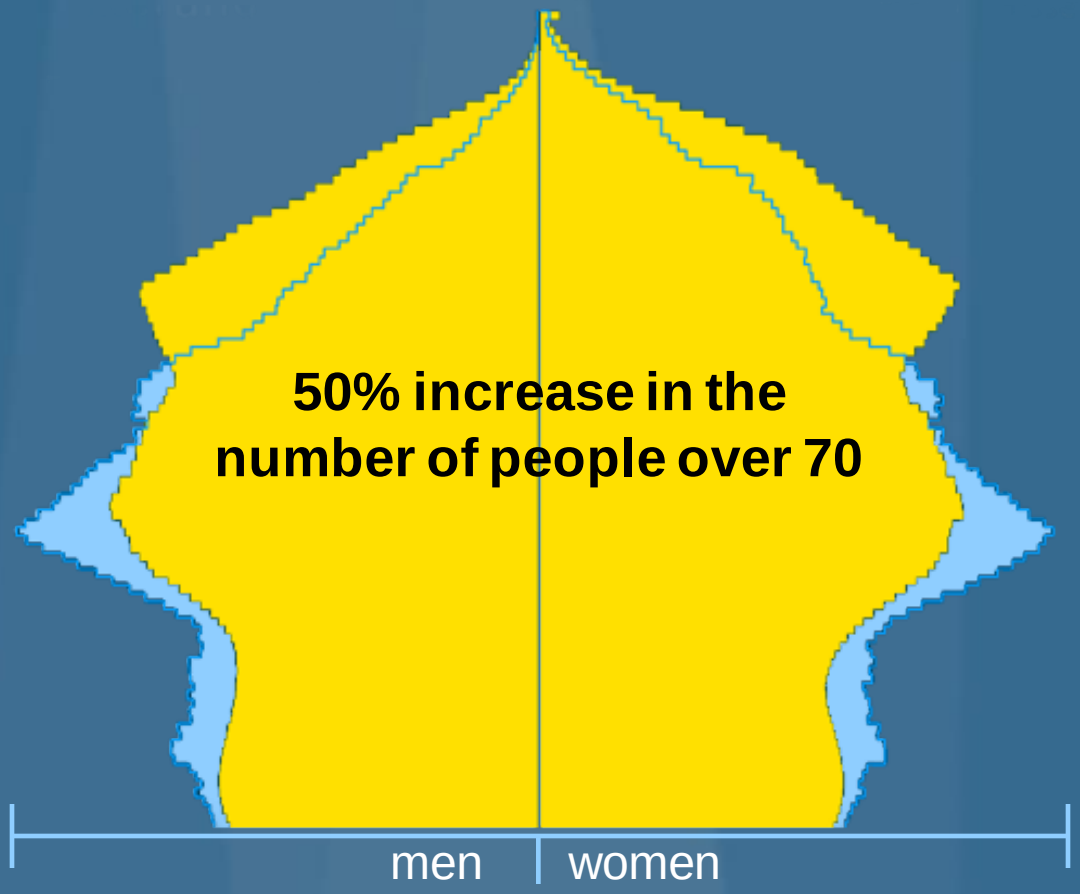
safety

Safety

Demography today



Demography in 10 years (forecast)



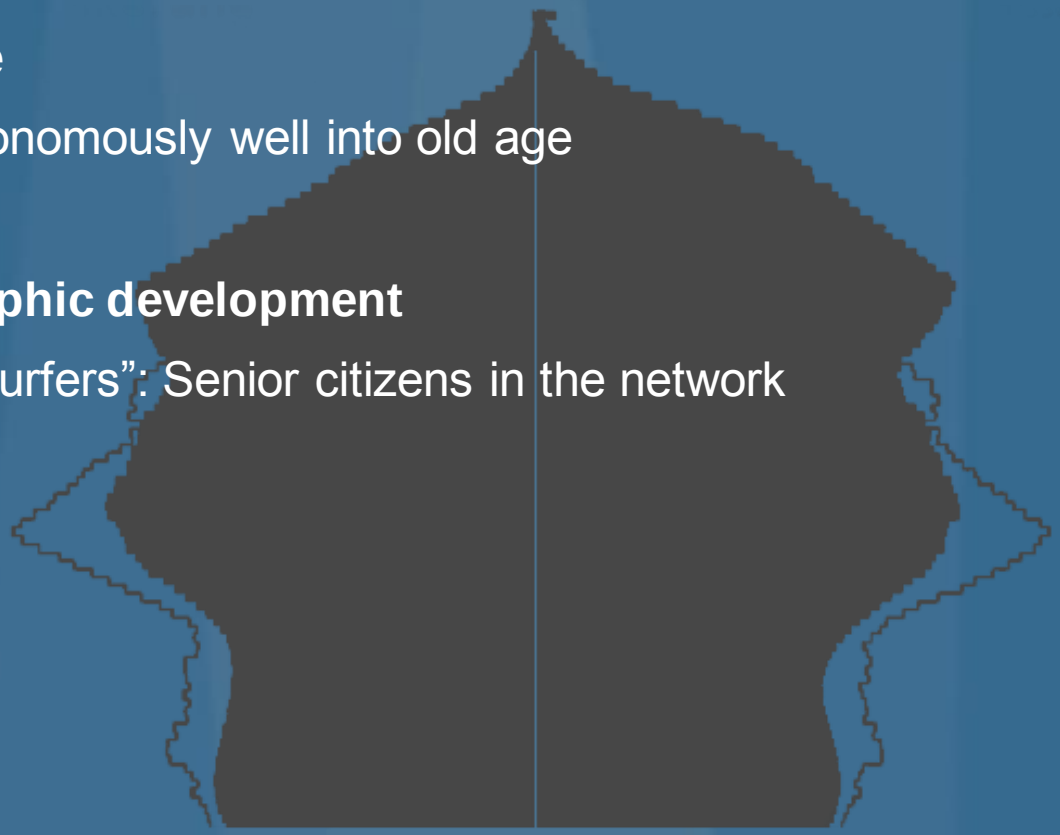
Ambient assisted living

Objective

- Live autonomously well into old age

Demographic development

- “Silver Surfers”: Senior citizens in the network



Ambient assisted living research

Research promotion program

- EU: AAL, €600 million until 2013

Research programs at the iHomeLab

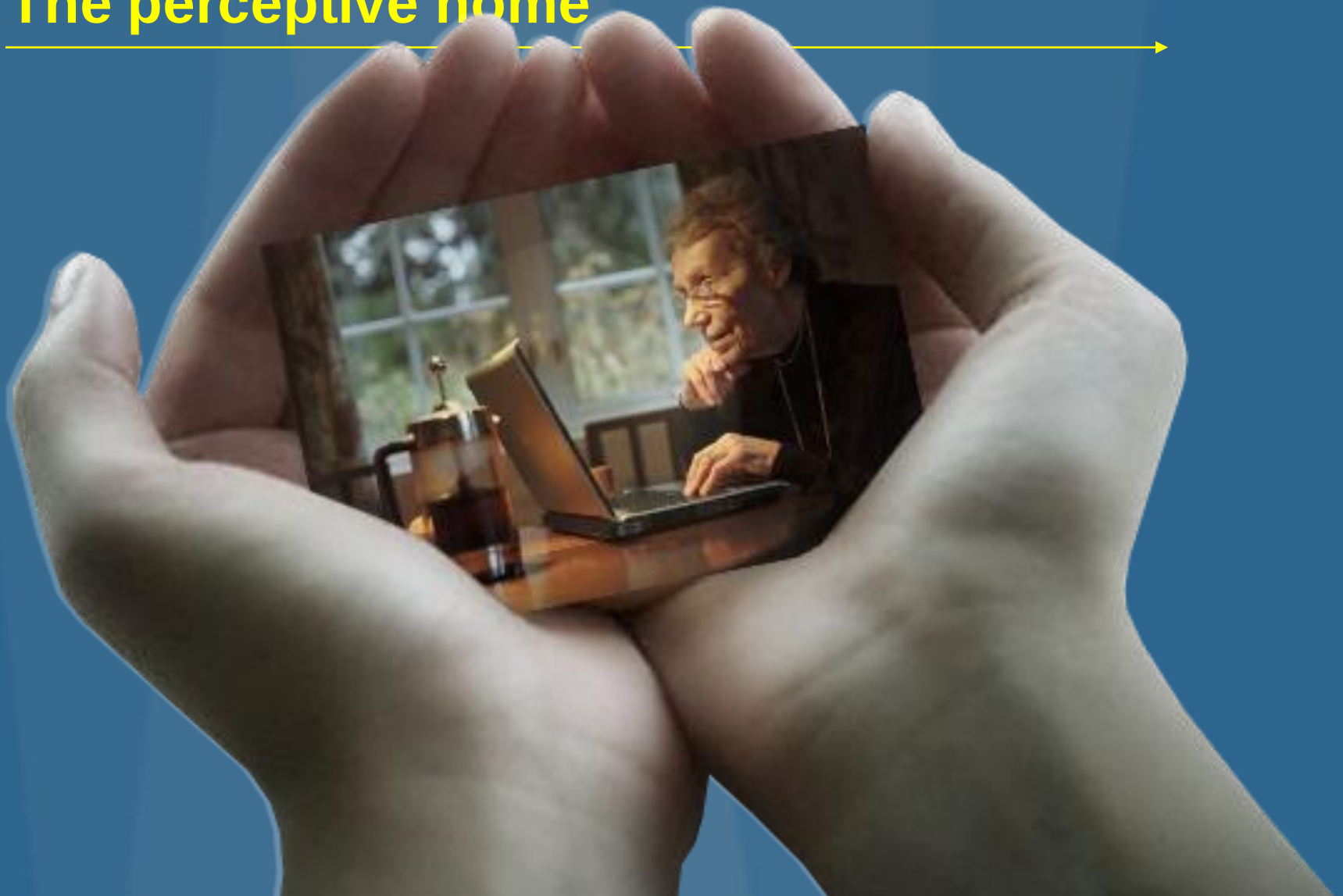
- Establishing location in buildings, of appliances and of people
- Activity monitoring (fall detection)

Ambient assisted living research

Falldetector

- tiny & wearable
- acceleration & air-pression sensors detect the fall-event
- communicates wireless
- battery operated

The perceptive home



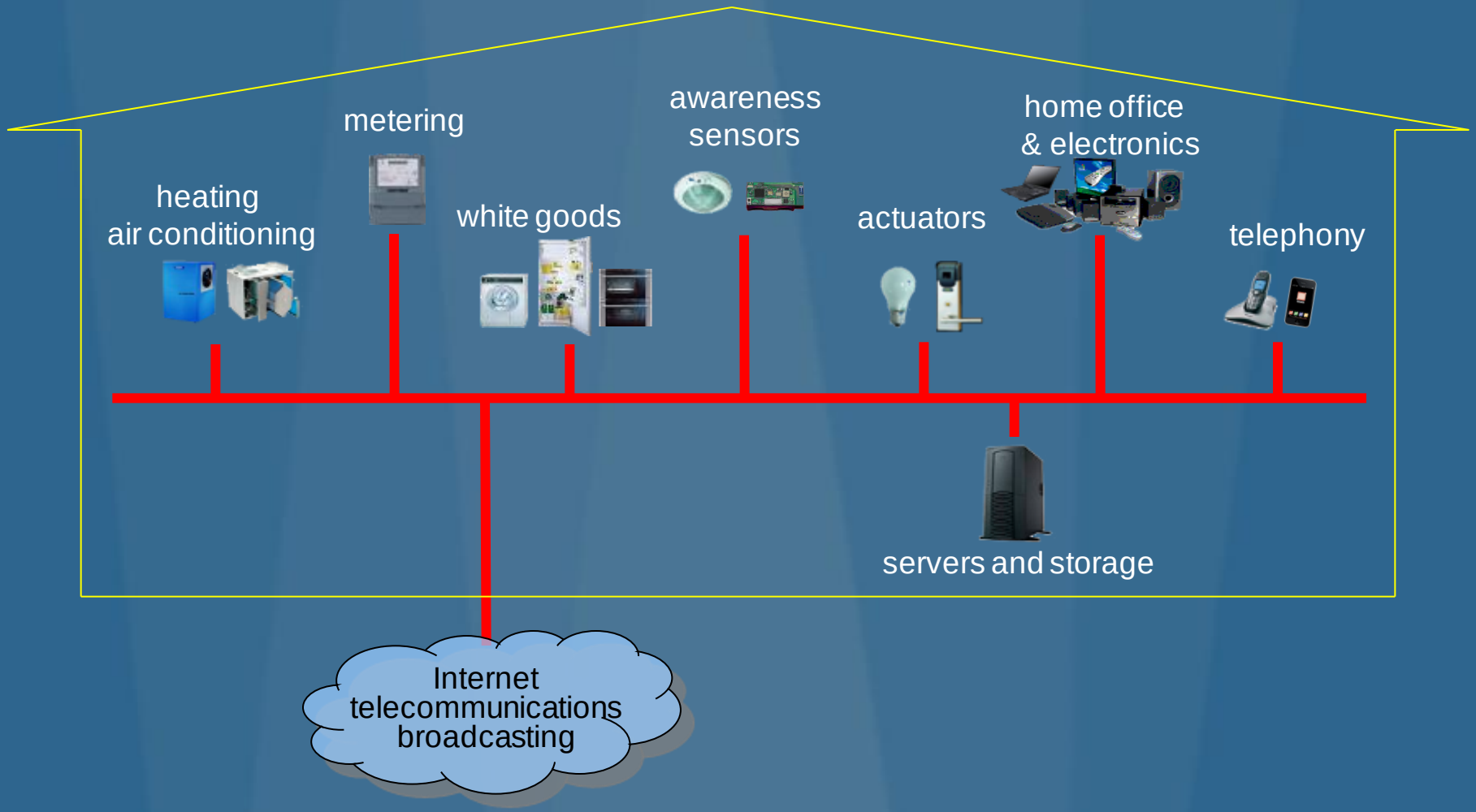
Requirements

comfort

safety

energy efficiency

Networking & Connectivity



Critical questions

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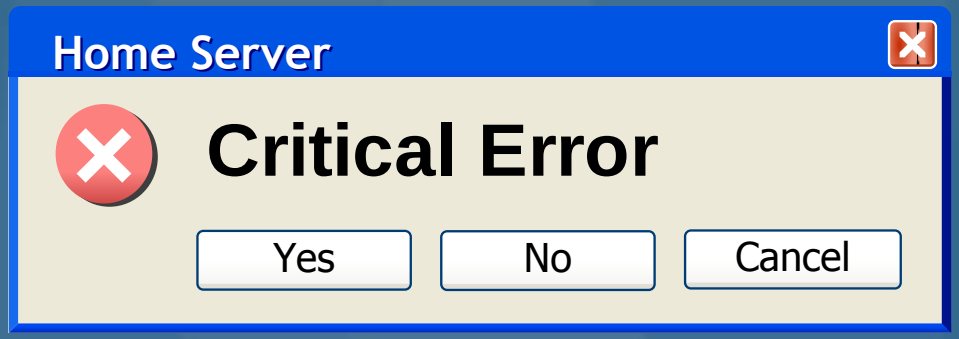
Is Big Brother watching you?

healthful?

Simple, reliable and error-free?



Affordable?

Thank you very much!