



The Health@Home service concept – vision and challenges

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Overview

- > Rationale
- Service model
- > Feasibility
- > Conclusions



Rationale – Why Health@Home?





Ageing of the European society





Chronic Diseases on the rise





Unhealthy Lifestyle on the rise







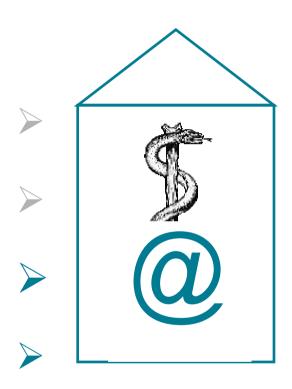
Solution

Bring ICT-enabled prevention and healthcare to the home



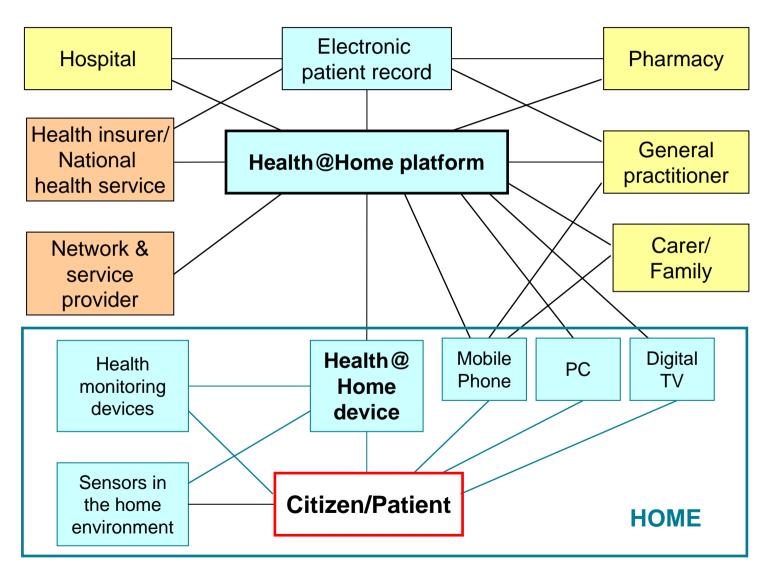


Health@Home service model





Vision of a service model





Characteristics of the model

- Based on open standards
- Multimodal access via multiple devices
- Linked to electronic health record
- Customisable to personal user needs
- Modular approach to adapt to different care conditions
- Mobility and portability
- Role-based access rights

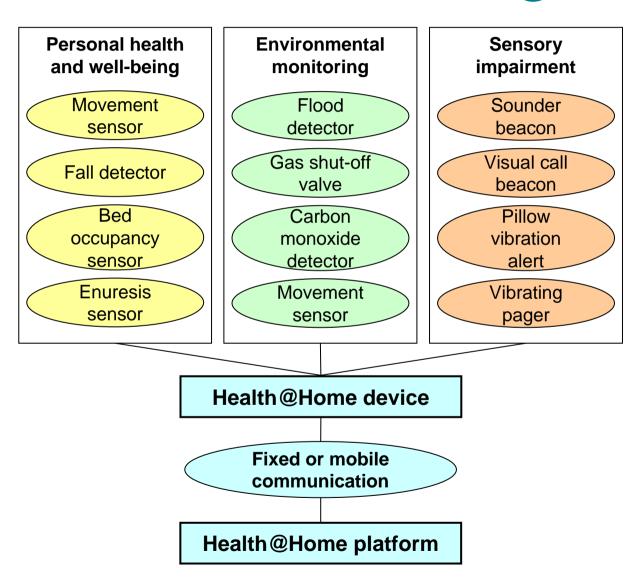


Wide range of services

- Monitoring of personal health factors
- Monitoring of patient environment
- Automated analysis of personal health data
- > Automated alerts, e.g. medication reminders
- > Support for behavioural changes (e.g. diet)



Sensors in the Health@Home model





Feasibility of the Health@Home model





Critical technical factors

- > Integration of technologies and devices
- Standardisation
- Interoperability
- > Privacy, security and data protection
- Scalability and reliability
- ➤ Mobility



Non-technical barriers

- > Inappropriate regulation
- Market fragmentation
- Lack of financial resources
- > Low user acceptance



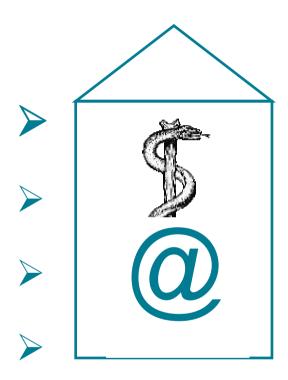
Drivers

- > Increase of chronic diseases
- Cost pressure
- Patient needs

- Advances in home networking
- Progress in standardisation



Conclusions





3 main conclusions

- Pressure towards patient empowerment through Health@Home service will grow
- Implementation of Health@Home vision will be challenging, particularly due to interoperability issues
- Large, interdisciplinary research project needed to explore interoperability, service integration, and usability aspects of a Health@Home service platform





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