



Lyon France, 29 June - 1 July

8TH INTERNATIONAL CONFERENCE
ON WEARABLE MICRO AND NANO
TECHNOLOGIES FOR PERSONALISED HEALTH.

From research to implementation of AAL-technologies; Norwegian experiences

- it's much more than the technology!

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Outlook

- Strategy documents
- AAL @ SINTEF
- Safety @ Home
- Mrs Paulsen's flat
- Lessons learned

Nordic Centre for Welfare and Social Issues

- Highly recommends to the Nordic countries to put welfare technology (AAL) on the agenda.
 - And not just on the agenda, but to establish national strategies, finances and closer Nordic cooperation within this field.
- We are in a hurry to get going
 - Big changes will not happen overnight.
- The introduction of welfare technology is a win-win situation for everybody, each citizen, society and business life.
- We cannot see any other options for the countries.



Theme publication on welfare technology (Ambient Assisted Living technologies) - December 2010
pHealth 2011



Recommendations

1. The Nordic countries must have welfare technology as a strategic focus area.
2. Learn from each other and establish Nordic cooperation in the field.
3. Provide national financing, testing and projects within the municipalities.
4. Use technology in such a way that people with chronic diseases will be able to be responsible for their own health.
 - This will lead to quality of life for the users and mean savings for society.
5. Use technology in such a way that people with disabilities will be able to function better.
 - Listen to the users and their advice when implementing the technology.
6. Be prepared to change rules and work routines in order to get maximum benefits from the new technology. Seek advice from staff when welfare technology is implemented.
7. Address the ethical problems of welfare technology with an open mind and adjust the law in order to make the new possibilities useful for the users.

Norwegian situation

Population: 5 Million

19 region – 430 municipalities

Local democracy; home care service decided by the municipality (incl use of technology)

Hospitals; public enterprise own by the Government



Technology adaption in Norway: **Safety alarms**

Available in 90 % of the municipalities as a health service for those who are qualified. Partly financed by the individual.

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Norway - Preparing for a change

New policy needed at national level

«Active ageing is intergenerational - it is about all of our futures and not just about older people. We are all stakeholders in this endeavour.» (Walker, 2002)

Actions needed:

1. Activate the society
2. Technoplan 2015 – technology support for homecare
3. New concepts for living (future homes)
4. Innovation in homecare
5. Collaboration & business opportunities

«Co-creation changes the game of innovation from designing FOR people to designing WITH people» (Copenhagen co-creation 2009)



Norwegian governmental investigation– June 2011
Innovation in care

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Some messages

Technology alone does not meet the challenges

80% of future homes are already built; solutions for tomorrow must be adaptable to existing environments - flexible, easy to install & uninstall and allow personalisation.

Start using existing technology:

1. Extended safety alarms (incl fallsensors, GPS, etc.)
2. Adapt video-communication and social media to prevent loneliness
3. Integrate solutions to help people to stimulate, activate and structure their daily life

Change the regulations to allow for use of GPS technology (look to Denmark)

Increase RTD investments in the sector from 1,6 ‰ to 1 ‰ of annual spending towards 2020.





Ambient assisted technology

Strategic priority area @ SINTEF



Social networks

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User driven innovation in the health care sector

Guideline: 10 steps to innovation



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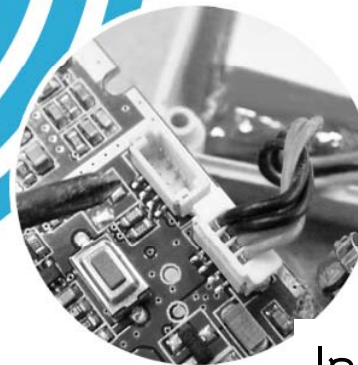


Municipality



Innovation model

Research



Industry



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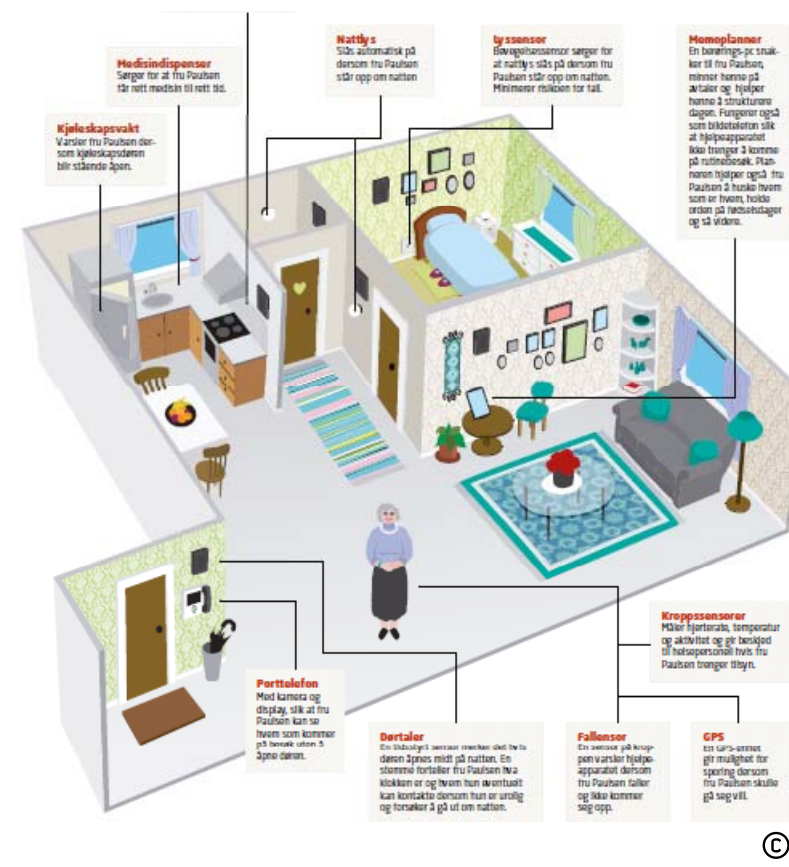
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"I want to stay in my home as long as I can!"

"Mrs Paulsen's flat"

- Understand user need
- Define "the technology toolbox"
- Understand future health care service
- Test new business models
- Ethical issues



Passive support: Monitoring the person – trig alarms if needed

Active support: User support to cope with own situation

 **Safety @ home**
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Technology demo at Henie Onstad senior centre, Bærum

1st step: Technology demo

- Present solutions for "users"
- Discuss & understand possibilities and implications

2nd step: User assessment & installation of solutions for safety@home in 2-3 homes

- Video communication with call-centre
- Extended safety alarm
- Night lightening
- Reminders / calendar

3rd step: Field trial in the Oslo-region

- Technology robustness
- New models of care
- Business models

Need for a "communication tool"

- For policy makers
- For care organisers
- For care givers
- For the elderly
- For relatives

Trykk på skjermen



Videotelefon



Nattlys



Fallalarm



Fru Paulsen



Påminnelser



Kjøleskapvakt



Komfyrpåminnelse



Familietre



Medisin-dispenser



Dørtaler

Gi din
tilbakemelding

TRYKK HER !



Abilia Senior

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Lessons learned

- Decision makers need to understand the possibilities and changes needed
- Technology is only one part of the innovation needed
- New knowledge needed for all actors
- Municipalities look for service & solutions, not technology alone
- Technology exists, but need to be put in the right context
- It's time to start moving!



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Welcome to MIE 2011 in August



23rd International Conference of
the European Federation for Medical Informatics



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