Universal Design and Mobile Devices

Dr. Riitta Hellman

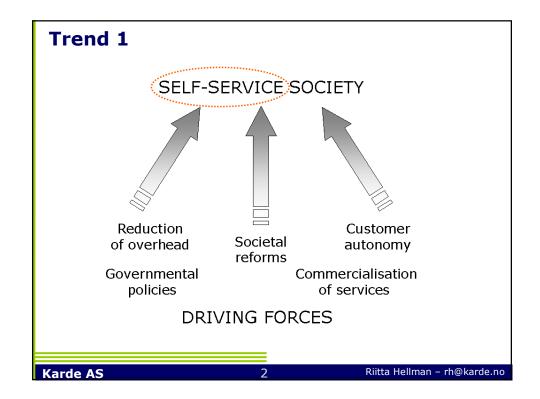
Karde AS (www.karde.no) Tellu AS (www.tellu.no)

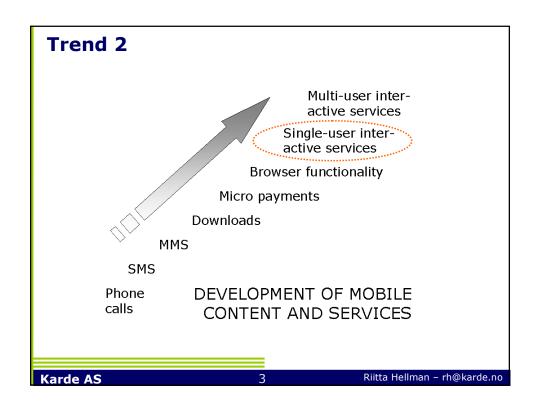
OSIRIS-projects partially financed by the Research Council of Norway

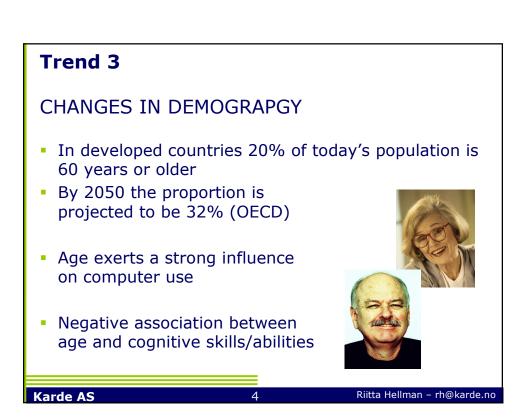
HCI International 2007, Beijing, China Mobile Interaction and Universal Access, Friday 26.7.2007

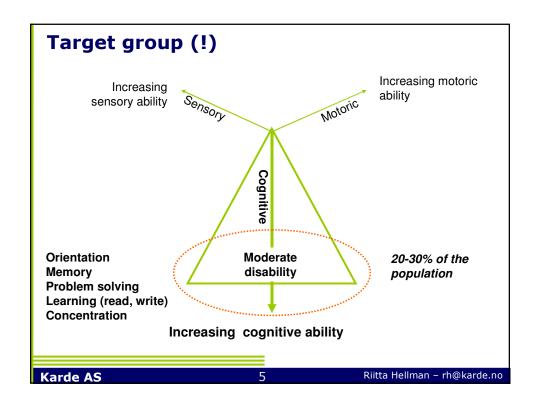
Karde AS

Innovation-based consultation and management









Focus

- Usability and accessibility of services (content) on mobile phones
- Cognitive accessibility problems of particular concern to elderly and people with disabilities
- Point of departure
 - Principles for Universal Design *

The design of products, environments, and communication to be usable by all people, to the greatest extent possible, without adaptation or specialized design.

- * Center for Universal Design, College of Design, North Carolina State University
- Several other accessibility guidelines ("all similar")

Karde AS

6

Riitta Hellman - rh@karde.no

Design guidelines for mobile phones

Synthesis of existing guidelines, resulting in guidelines relevant to mobile phones and legal case management for cognitively disabled users:

- Navigation and work flow
- Errors
- Search and queries
- Input/output-techniques
- Time
- Text and language
- Voice and sound
- Graphics
- Figures and numbers
- Help and information



www.tellu.no

Karde AS

7

Riitta Hellman - rh@karde.no

Case: The Mobile Tax Demonstrator

- Functionality for
 - updating information required for tax calculations
 - ordering a new tax deduction card

Service meant to be used by all citizens, including

the elderly and disabled

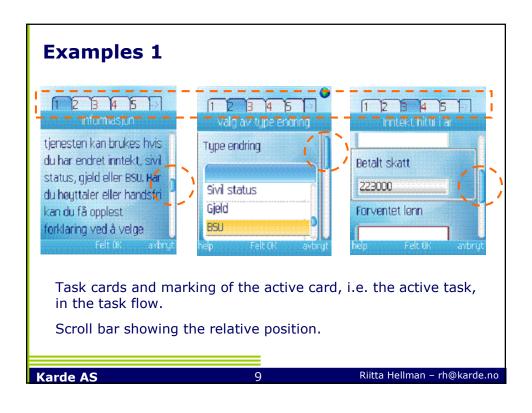
- Provided by the Norwegian Tax Authorities
- Currently available on the Internet
- Developed by www.tellu.no

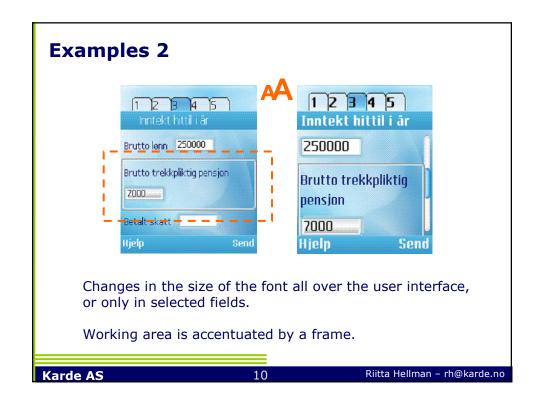


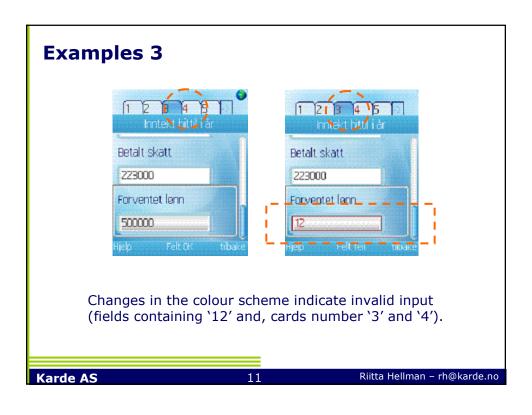
Karde AS

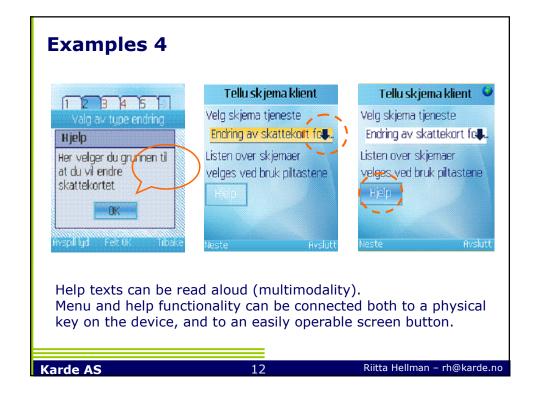
8

Riitta Hellman - rh@karde.no









Conclusions

- Services connected to legal case management
- User interface for elderly and cognitively disabled users
- Avoiding complexity and visual clutter
- Governmental electronic services as "proof of the pudding"
- Next steps (2007-8):
 - Small scale field experiment
 - Large scale field experiment (with real users, i.e. citizens)
 - Production use?



Karde AS

13

Riitta Hellman - rh@karde.no