Shaping the future with human-driven design

Research seminar 27.5.2014
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www.vtt.fi/designforlife
Design for life innovation programme

- Organization
  - Future contexts of living and working
- Design
  - Design and development of socio-technical systems
- Business
  - User experience and value in use
- Innovation
  - Co-innovation and co-design

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Design for life objectives

- Better productivity and competitive advantage by taking human well-being and values as the driving forces
- Empowering people to influence their living and working environments.
- Human-driven solutions to big societal challenges
- Managing complexity in socio-technical systems

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Design for life projects make the programme

...the entity takes shape only once the pieces are put together.

Design for life programme entity consists of more than 30 individual research projects that work towards the common research objectives.
Shaping the future with human-driven design?

- How to make human well-being, values and actual needs the driving forces of development?
- Could human-driven design be more future oriented – targeting to radical rather than incremental changes?
- How to empower people to influence their future living and working environments?
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Morning session

10:00 Welcome and Introduction to VTT’s Design for life Innovation programme, Eija Kaasinen

10:10 The changing landscape of user research, Associate professor Sampsa Hyysalo, Aalto University

11:00 Three research examples from VTT
   ▪ Innovative leap – designing future ship bridge concepts with Rolls-Royce, Mikael Wahlström, VTT
   ▪ Human-driven approach to Internet of things, Anu Seisto, VTT
   ▪ World of Cellulose – Grasping the future customer preferences and unknown desires, Eija Kupi, VTT

12:15 – 13:15 Lunch break
Shaping the future with human-driven design

Afternoon session

13:15 Human-Robot interaction, Professor Tetsuo Sawaragi, Kyoto University

14:15 Responsible design, case human-robot interaction, Veikko Ikonen and Marketta Niemelä, VTT

14:45 Practise theory approach in complex systems design, Leena Norros, VTT

15:15 Closing of the seminar and introduction to the Showroom

15:30 – 16:45 Design for life Showroom with demos and posters of VTT’s research
Design for life Showroom 15:30 – 16:45

Demos and videos

- Robot at your service, Marketta Niemelä and Iina Aaltonen
- Future ship bridge concepts, Mikael Wahlström
- Virtual Reality training simulator for ship manoeuvring, Jaakko Karjalanen
- Illustrative and participatory community planning, Antti Väätänen
- Preference mapping in Owela, Kaisa Vehmas
- Dynamic model of global service competences, Joona Tuovinen
- Design driven value chains in the world of cellulose, Eija Kupi

Posters

- Towards sustainable cities with intelligent transport systems, Pirkko Rämä
- Shaping markets for sustainability, Maria Antikainen
- Unraveling metro train driver’s work: challenges in automation concept, Hannu Karvonen
- Digital maternity package, Anu Seisto
TECHNOLOGY FOR BUSINESS