

CURE – Center for Usability Research and Engineering

User Experience and the Future Internet

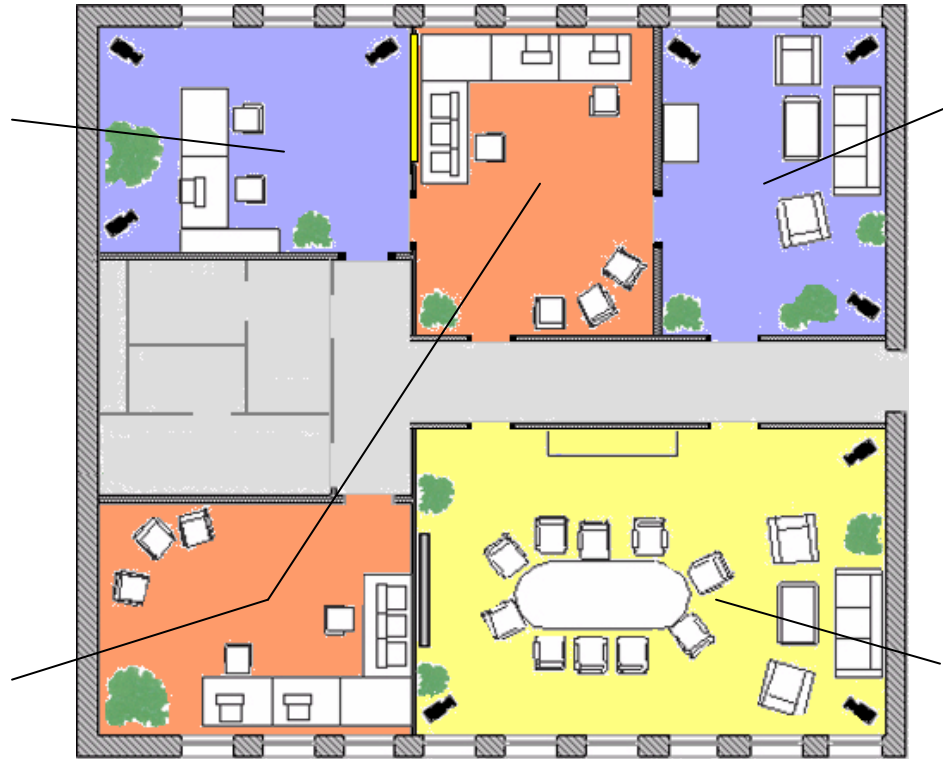
8 July 2010, Infoday Brussels
PPP Future of the Internet
Cornelia Gerdenitsch

About CURE

- Established at the University of Vienna in 1994 and operating as an independent research center since 1999, founded by Manfred Tscheligi
- Research focus: innovative and highly usable interactions with systems, information and services and optimised and creative user experiences in the following domains:
 - Consumer Technology (networked home, mobile technology)
 - Health and e-Inclusion (accessibility, autonomy, and user acceptance)
 - User Experience (contextual influences, measurement)
 - Privacy and Security (ensuring trustworthy and trusted interaction)
- Interdisciplinary research approach
 - Psychology, Sociology, Computer Sciences, Pedagogics, Communication Sciences, Economics, etc.



User Experience Labs



User Experience Labs



CURE and the Future Internet

- CURE actively deals with the research challenges surrounding the future internet by coordinating and participating in initiatives dealing with:
 - Methodological Research Challenges
 - Living Lab approaches for the active participation of end-users in the shaping of the FI
 - Use of FI Infrastructure for large scale testbeds and field trials to evaluate applications, products and services
 - User Experience Challenges (Privacy, Trust)
 - Collaborative Environments and Communities support
 - Cloud Services
 - Internet of Things
 - Autonomous and Intelligent System Challenges
 - Autonomy and trust in intelligent systems
 - Transparency and human-in-the-loop interface focus



Example Project: uTRUSTit – Usable Trust in the Internet of Things

- FP7-ICT-2009-5
- Coordinator: CURE
- Goal: integrate users directly in the trust chain, guaranteeing transparency in the underlying security and reliability properties of the IoT.
- Three main components:
 - Visualization of security properties of “things” within the internet of things (IoT).
 - Security-feedback toolkit for IoT developers.
 - Overview tool enabling the IoT-user to see all the “things” in his/her environment and to assess their level of security.



TUCIF: Towards a User-Centric Internet of the Future

- **User-driven innovation approach**
 - privacy and trust / autonomy and perceived intelligence / living lab methodology
- **Requirements engineering for the future internet**
 - Use-Case elicitation by means of end-user innovation and participatory design workshops
 - Large scale end-user involvement (European-wide) to cover possible use-cases and scenarios of the future internet
 - Evaluation of use-/cases scenarios
- **Results**
 - U-CDL (use-case description language)
 - Use-case collection covering future internet scenarios
 - Human requirements for the future internet (derived from use-case)
- **Partners needed:**
 - Technical integration, mobile device prototyping, device2device communication



Thank you

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