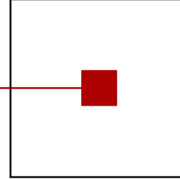


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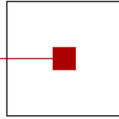
Mario Pichler
mario.pichler@scch.at
+43 7236 3343 898
www.scch.at

Mobile and Ubiquitous Systems: What are the open issues?

Mario Pichler
Software Competence Center Hagenberg (SCCH)
Austria

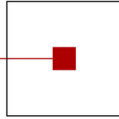
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Background – Two Projects





Oxygen – Ubiquitous Business

■ Vision

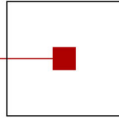
- Stay in touch with everyone and everything, from wherever you are
- Information access will be available everywhere – will be ubiquitous

■ Why?

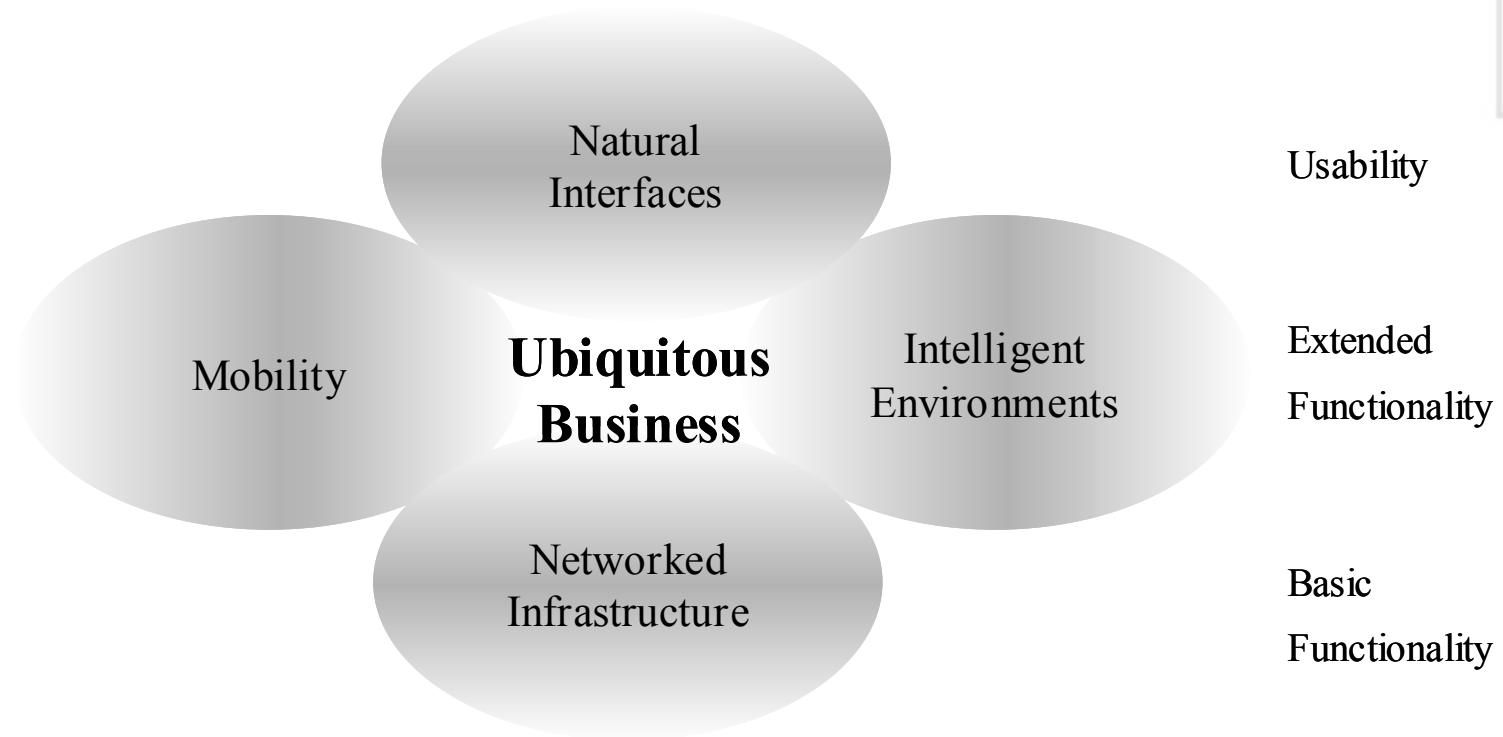
- Immediate access to ideas, goods and services will be of greater value than permanent and ponderous possession
- The formular of the coming age:

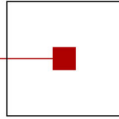
ACCESS, ACCESS, ACCESS

(J. Rifkin – The Age of Access, 2001)

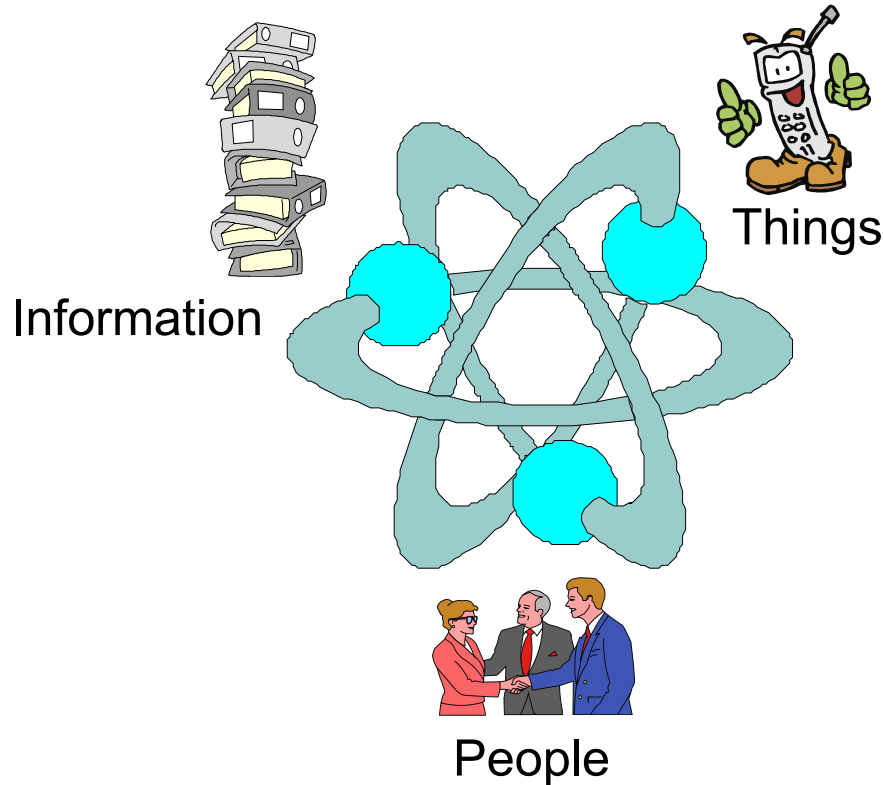


Oxygen Results – Building Blocks of Ubiquitous Business

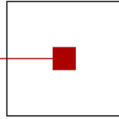




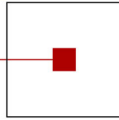
Hydrogen – Project Vision



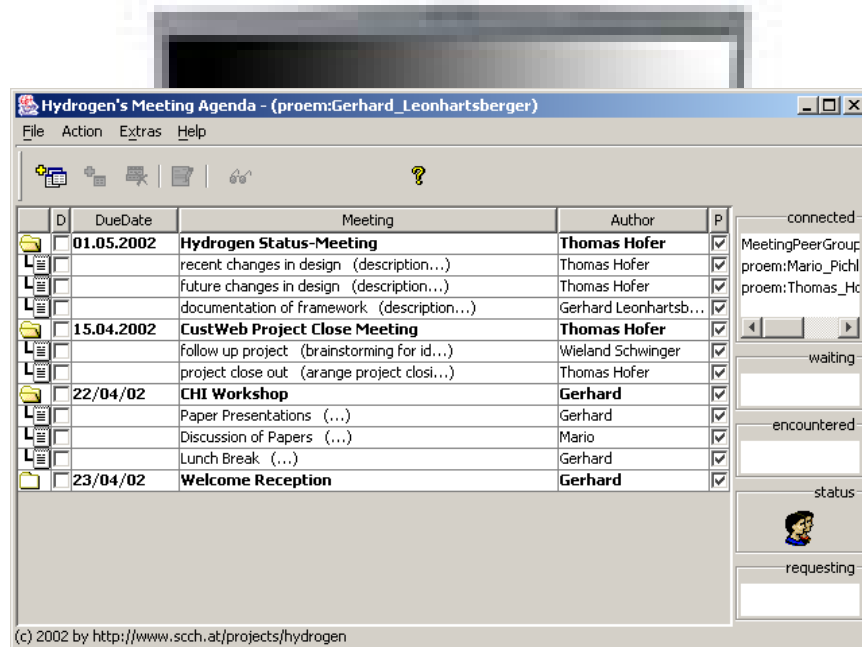
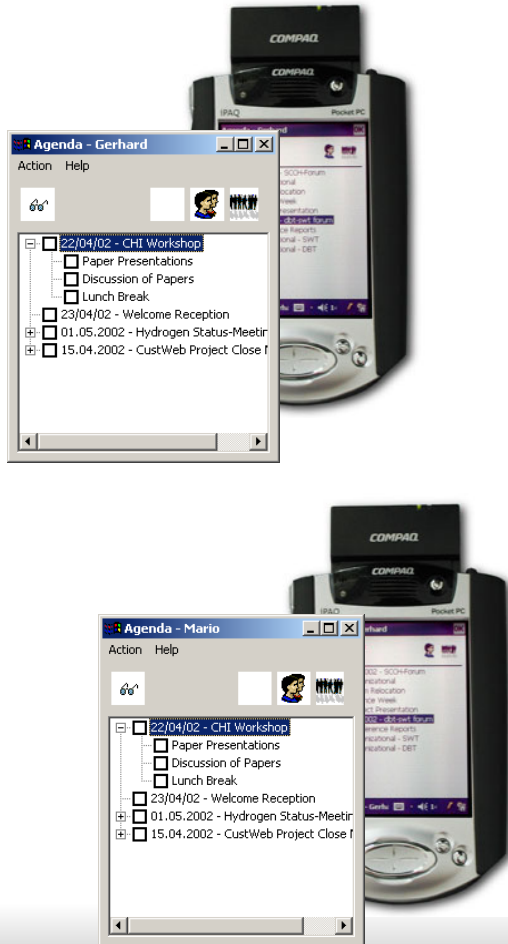
Bringing together People, Information and Things

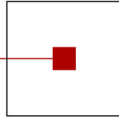


- Investigation and evaluation of middleware for:
 - Supporting social interaction among people
 - Mobile ad hoc cooperation among team members
 - Taking into account the very dynamic execution context of applications running on mobile devices
- Development of experimental prototypes
 - Mobile meeting agenda
 - Location aware reminder



Mobile Meeting Agenda Components: iPAQs and Laptop

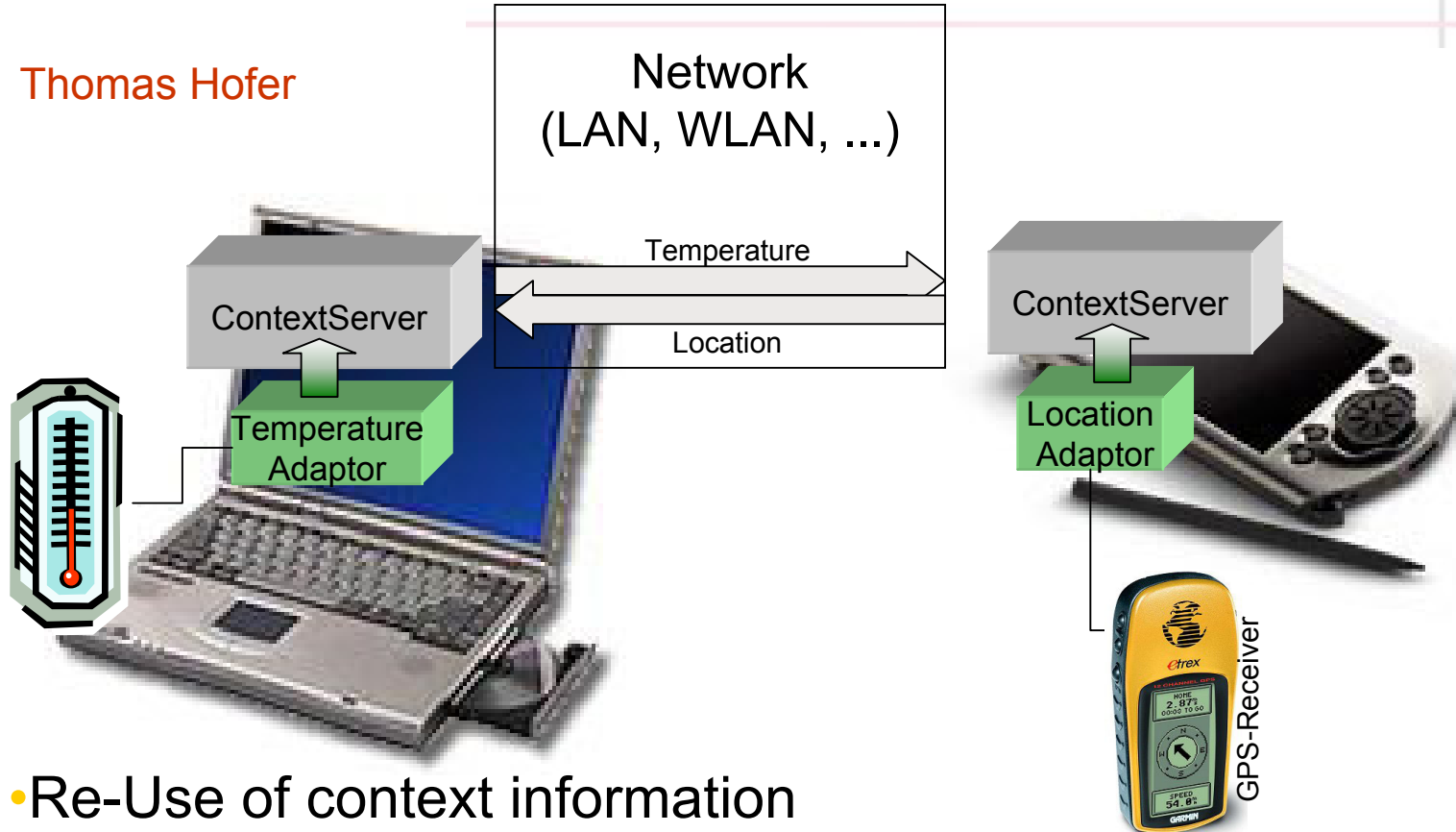




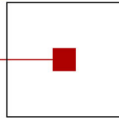
Context Framework

Context Sharing

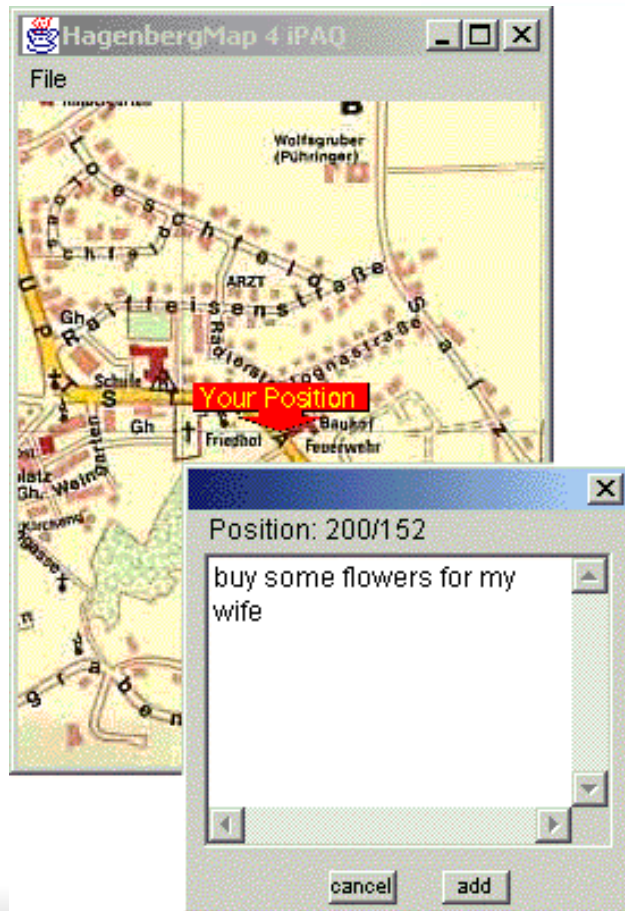
Thomas Hofer

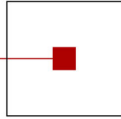


- Re-Use of context information on more than one device



Hagenberg Location Aware Reminder





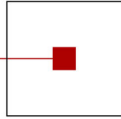
■ Planning PhD thesis

- Question: What are the open issues?
 - Spontaneous interaction and interoperation in mobile and ubiquitous systems
 - Mobile peer-to-peer systems
 - Mobile ad hoc collaboration

■ I hope that this Summer School will help me defining my research topic

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Thanks for your attention!

Mario Pichler

Software Competence Center Hagenberg GmbH

Hauptstraße 99

A-4232 Hagenberg

Tel. +43 7236 3343-898

Fax +43 7236 3343-888

mario.pichler@scch.at

www.scch.at

