ETH World Entry Points Project

RESEARCH GROUP FOR

Entry Points into the ETH World Infostructure

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Distributed Systems



Friedemann Mattern



Jürgen Bohn



Svetlana Domnitcheva



Marc Langheinrich



Michael Rohs

a virtual space for everyon associated with ETH Zurich

a virtual space for everyone

Objective

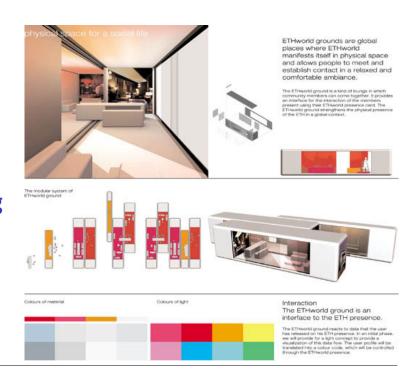
- Creation a virtual campus
 - Environment for cooperation of research groups and teaching and learning communities

Design

- International competition for design concept
- Winner: Beyond Luxury

Realization

- Individual projects, developing
 - e-learning,
 - research tools,
 - information management,
 - infrastructure elements and
 - · community building



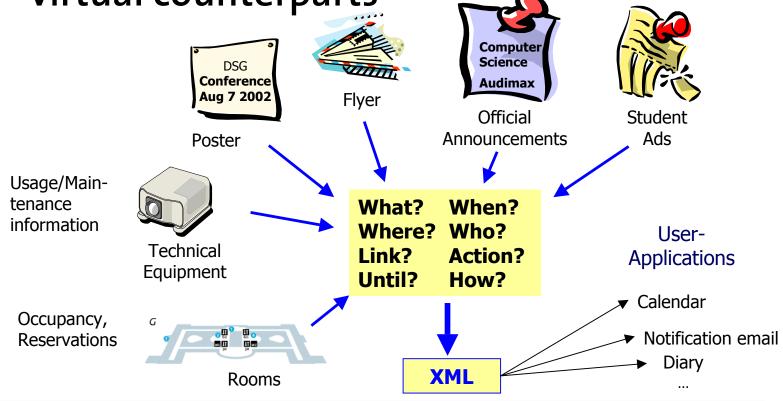
Entry Points Project

Entry points into the ETH World infostructure

- Interweaving the infostructure of ETH World with the physical infrastructure of ETH
- 2. Provision and utilization of location information
- 3. Investigation and evaluation of privacy and acceptance aspects

Entry Points to ETH World

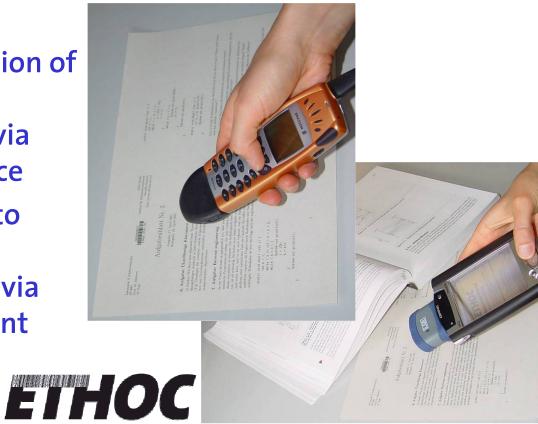
Augment physical ETH entities with virtual counterparts

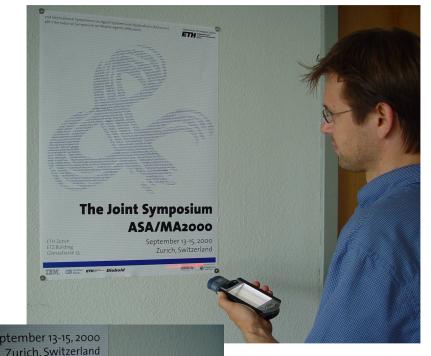


"Everything has online content"

 Simple creation of augmented documents via
 Web interface

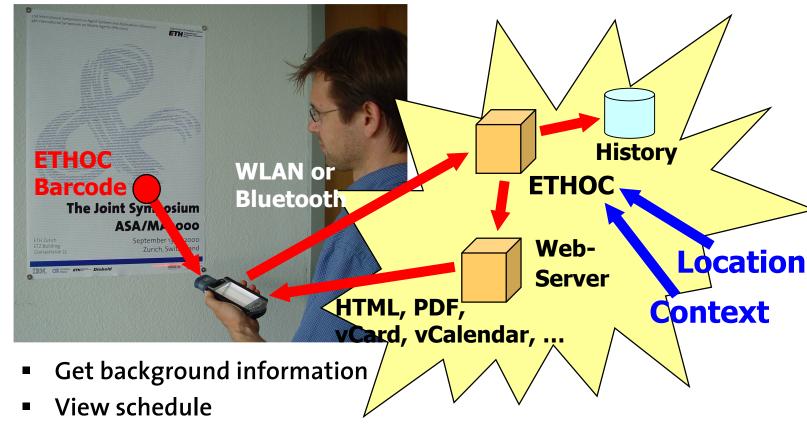
Easy access to virtual counterpart via multiple client devices





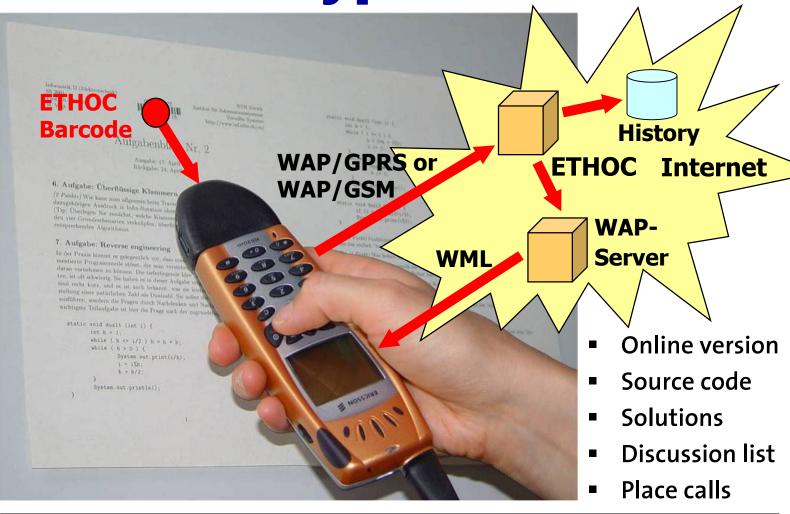
- An objects tells something about itself
 - e.g., by displaying a dynamically generated homepage
- Content
 - depends on
 circumstances such
 as context, location
 and privileges





- Store calendar entries
- Registration





ETH World Positioning Services

- In-building guide and navigation aid
 - Find-your-way prototype
- Facility management
 - room utilization profiles,
 - detect zones of activity
- Electronic diary
- Lecture assistant
- Locate friends and study groups



Prototype: Find Your Way

- Positioning using barcodes
- "Routing people"



Privacy and Acceptance

Privacy of location information and personalized data

 Investigation of social implications of introducing ubicomp technologies

The Internet

PA (Privacy

into the student's lifes



Expected Results

- ETH World offers ideal deployment environment for testing ubicomp scenarios
 - Focus on technologies that are immediately available
- Experimentation with responsive objects
 - Design of virtual counterparts
 - Interaction with smart objects
- Everyday use of navigation and localization techniques
 - Evaluation of their usage constraints and opportunities in a realistic setting



Thank you for your attention!

- Email:
 - rohs@inf.ethz.ch
- ETH World Website:
 - www.ethworld.ch
- Entry Points Project:
 - www.ethworld.ch/nw/projects/details/137/
- ETHOC
 - http://ethoc.ethz.ch

