





Mensch & Computer 2004, Paderborn

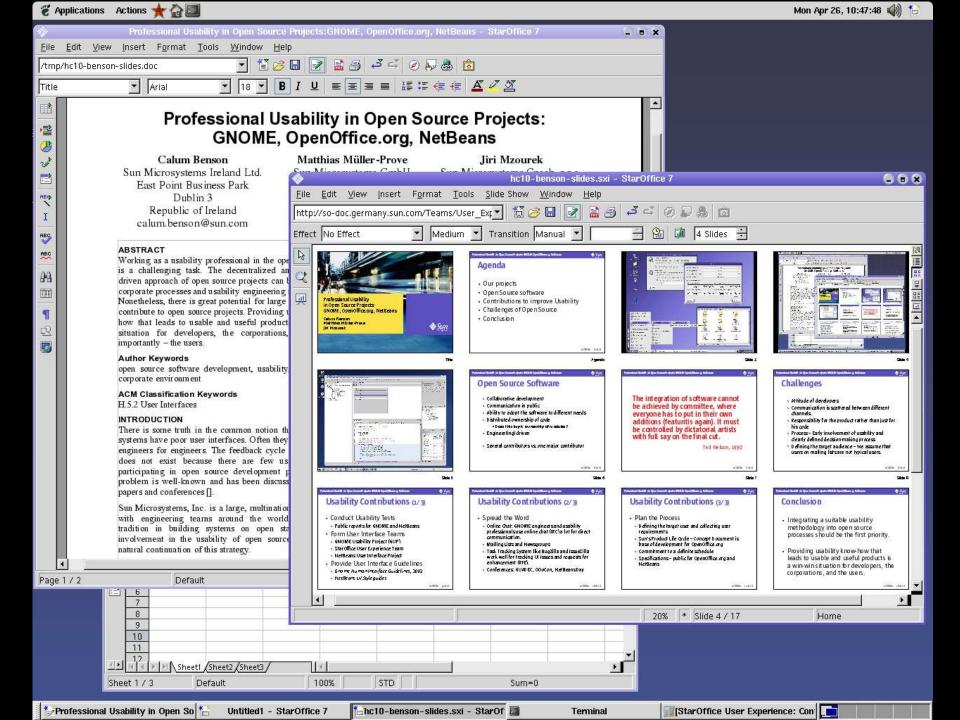
Tim Bosenick, SirValUse Consulting Matthias Müller-Prove, Sun Microsystems



Context

StarOffice

- StarOffice / OpenOffice.org
 - Market lead on Linux / Solaris / Unix
 - Most important competitor to Microsoft Office on Windows
 - Standardized XML file format
 - Fair support of Microsoft Office file formats
 - OpenOffice.org is the open source twin of StarOffice.





Context

Process

- Sun Product Life Cycle (PLC)
 - About 18 month for concept, planning and implementation phases
 - Competitive Engineering / Evolutionary Design (Tom Gilb)
 - Measurable goals support the development phases.
- User Experience
 - Good usability is key for StarOffice.
 - Usability tests under lab-conditions are an important component to reach this goal.



Problem

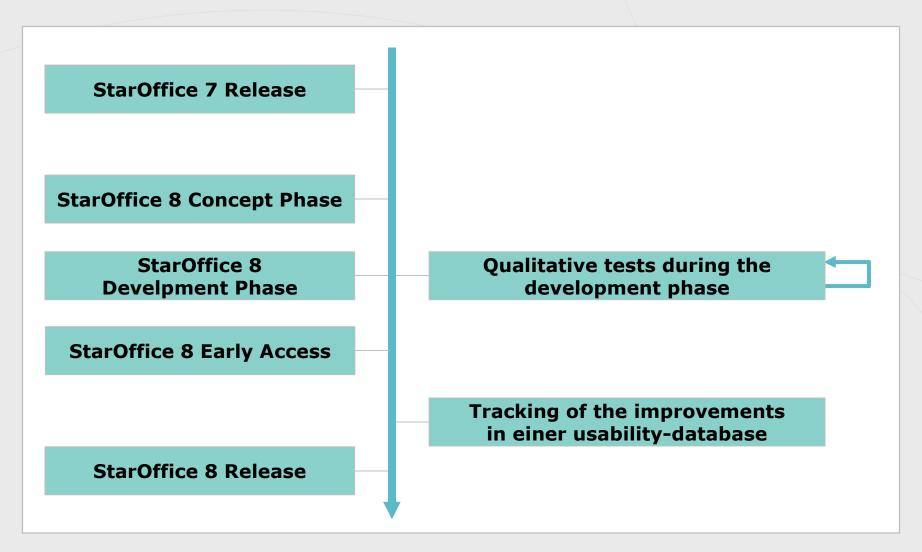
"When you can measure [it], you know something about it."

Lord Kelvin

- Qualitative Usability Tests
 - ...are invaluable to improve the product;
 - but in principle they do not produce data for quantitative indices.
 - A qualitative approach interferes with a pure quantitative approach because the facilitator has an impact on the participant. This is reflected in changed results of the measurement. Objective and repeatable measurements are not possible under these conditions.

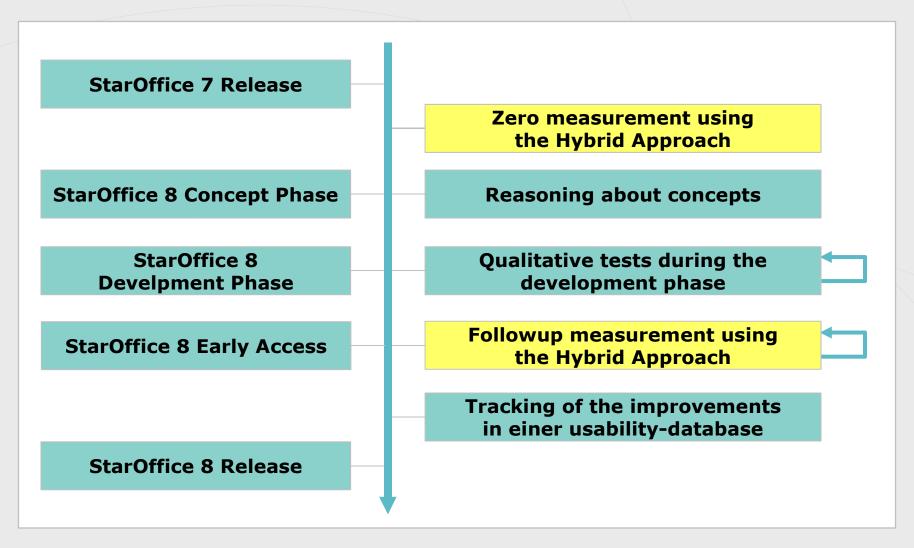


Context





The Hybrid Approach





The Hybrid Approach

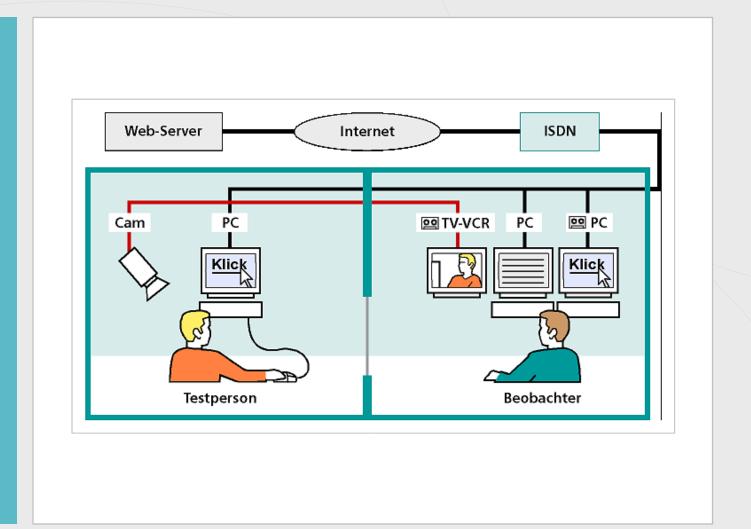
Approach

The new approach – developed by SirValUse and Sun – delivers qualitative and quantitative data to improve StarOffice / OpenOffice.org within the same study.



The Hybrid Approach

Setting

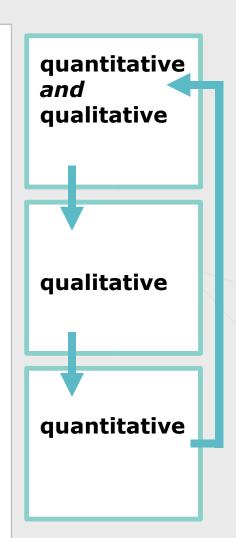




The Hybrid Approach

Test Session

- Introduction, privacy
- Participant works on tasks
 alone and thinks aloud
 - There is a time-limit.
 - Measures are taken.
- Facilitator enters the lab:
 - If the task has not been completed in time, she support the participant.
 - Observed issues are explored.
- The participant assesses the application with a standardized questionnaire.





The Hybrid Approach

Measurements

Objective

 Tracking software records important data on the test computer (time, clicks etc.).

Intersubjective

- A usability engineer recognizes usability issues and enters them to a database.
- The issues are recorded in a way that allows quantification (number of issue encountered).

Subjective

 Participants assess the application (or parts) with a standardized questionnaire.



Benefits

Rich Data

- The test delivers quantitative and qualitative data.
 - Quantitative > Controlling of development process
 - Qualitative > Recommendations to improve the application

Cost and Time

- The approach saves costs and time.
 - **Costs**: Recruitment once, two tracks to gain and evaluate data
 - Time: The same team conducts one test instead of two.



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