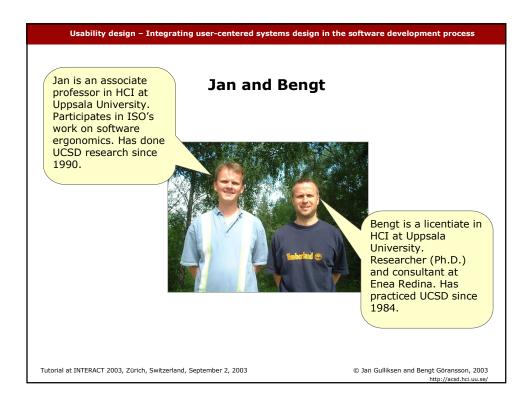
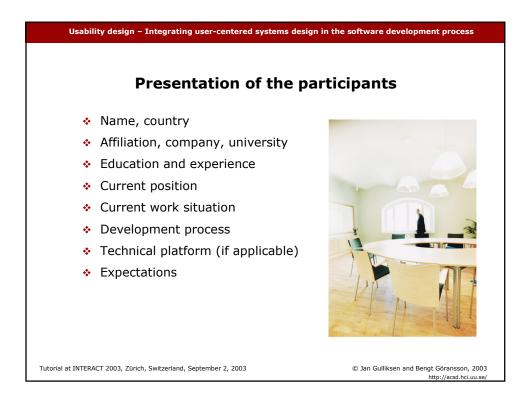


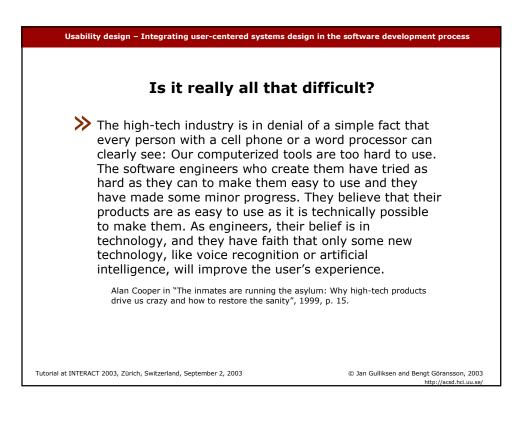
Usability design – Integrating user-centered systems design	n in the software development process	
Proposed Agenda		
9.00 – The Start		
Welcome and presentation of participants		
 Introduction and objectives for the tutoria 	I	
Definition and key principles for UCSD		
10.30 – Coffee		
 Discussion of the principles 		
 A case study 		
 Championing usability 		
12.30–14.00 – Lunch		
 Group exercise: rough project outline of a apply the principles in my organization? 	UCSD project / how can I	
Usability Design and Rational Unified Proce	ess (RUP)	
15.30 – Coffee		
 Usability Design and Rational Unified Process (RUP), continued 		
Wrapping up: Strategic UCSD		
 Discussion, questions and hopefully some 	answers	
17.30 – The End		
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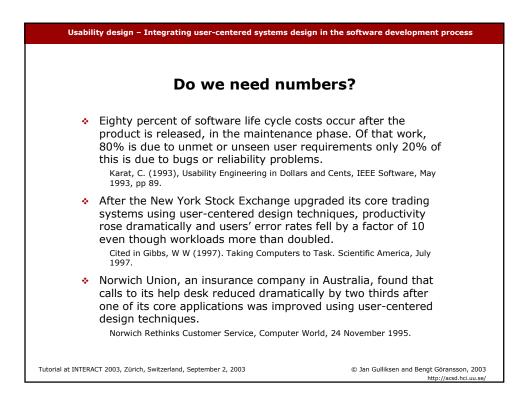


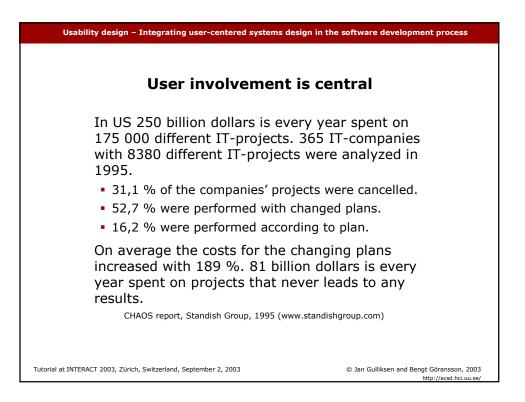




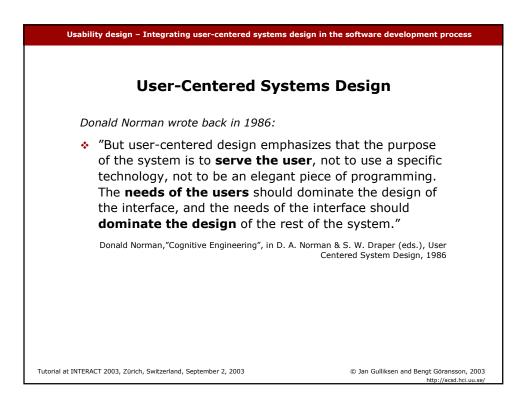


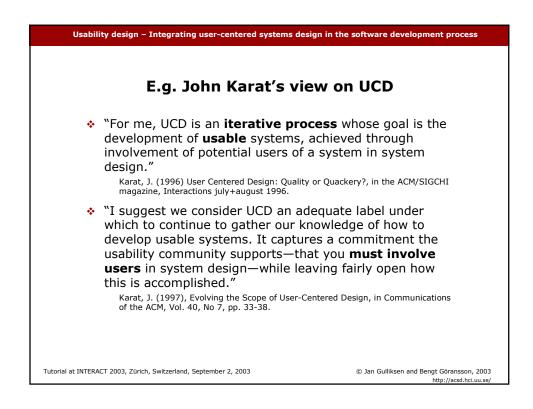


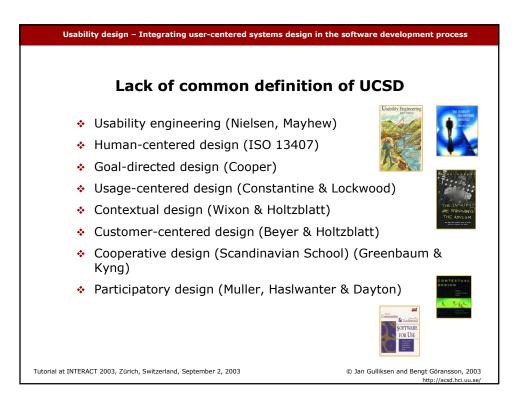


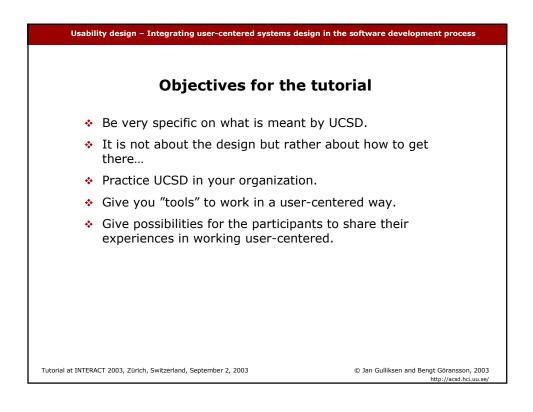


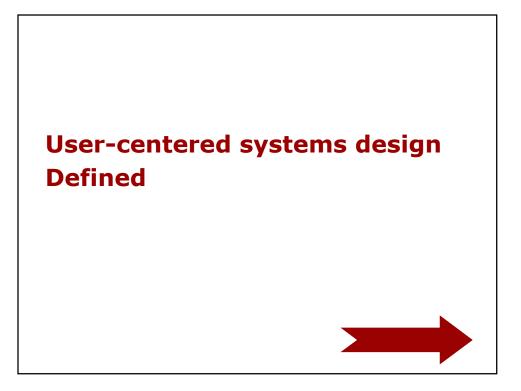
Swedish Work Env Arbetsmiljön skall vara tillfredsställand sociala och tekniska utvecklingen i	människors olika förutsättningar i fysiskt och The worker should be given the possibility to participate in the design of his/her own work situation and in changes and development that concerns the work.
Det skall vidare eftersträvas att arbets	sförhållandena ger möjlighet till personlig och självbestämmande och yrkesmässigt ansvar. © Jan Gulliksen and Bengt Göransson, 2003

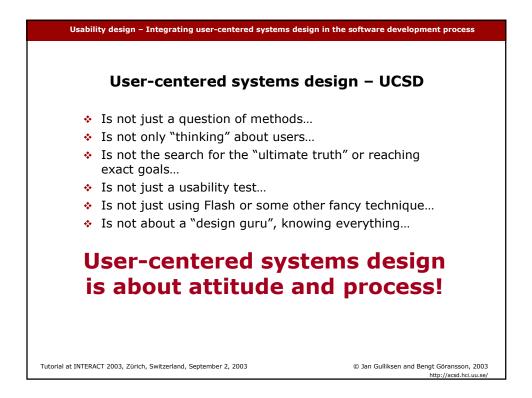


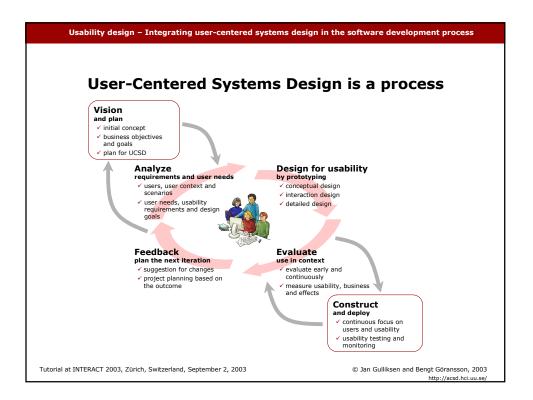


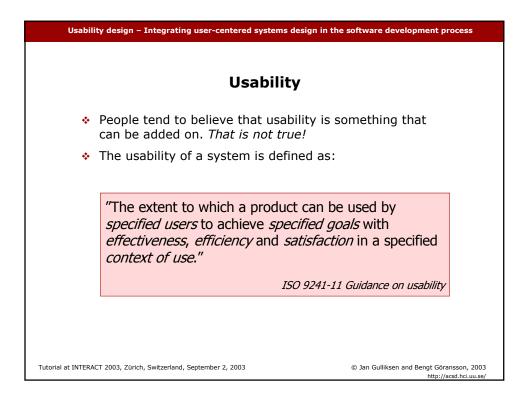




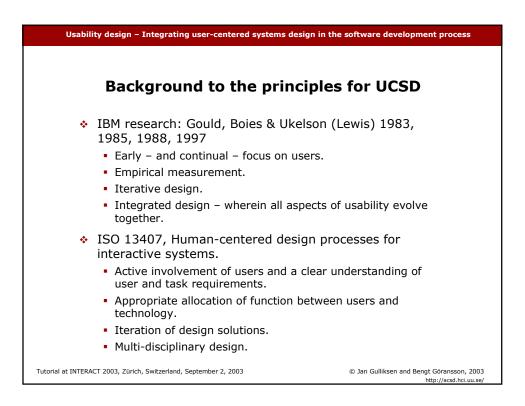


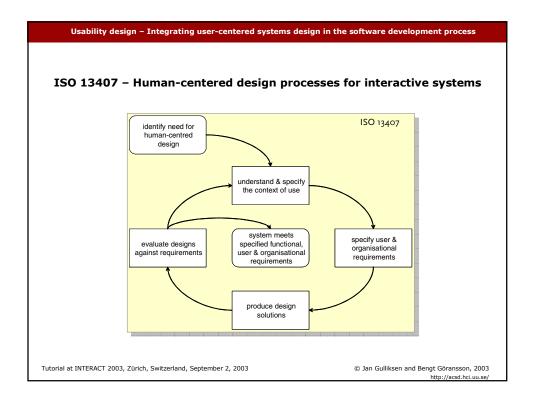


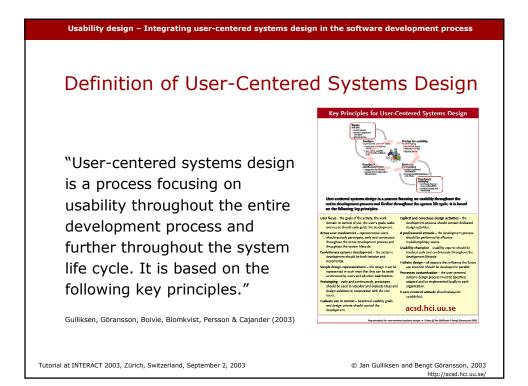


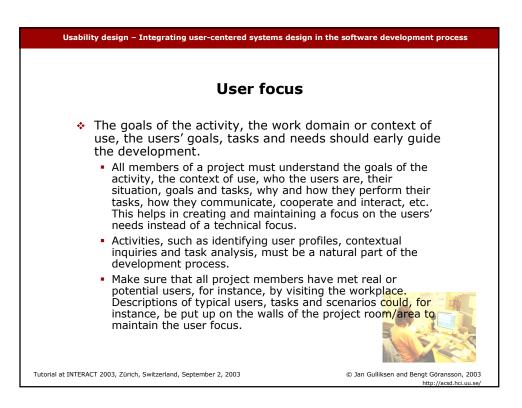


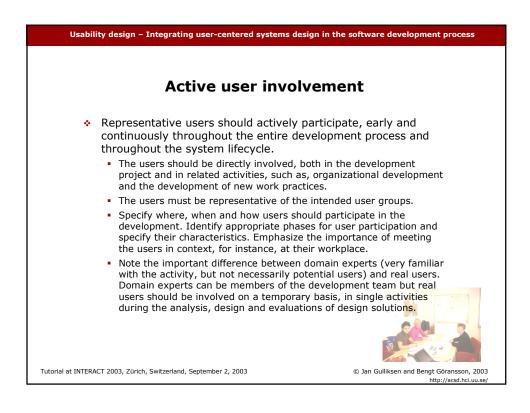


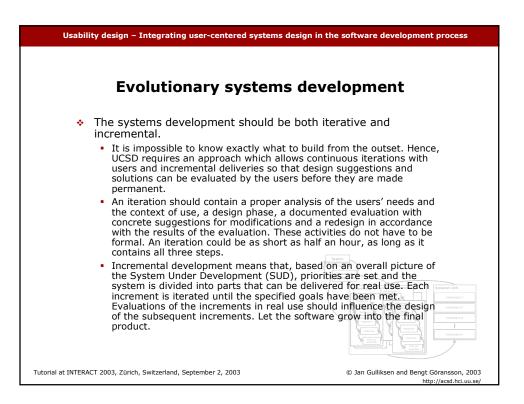


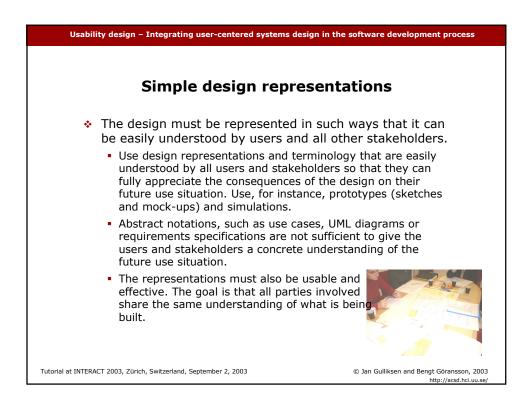


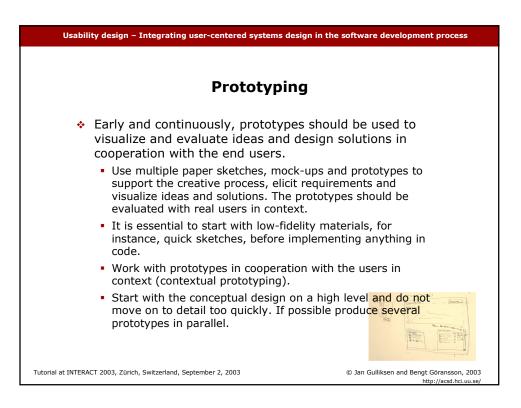


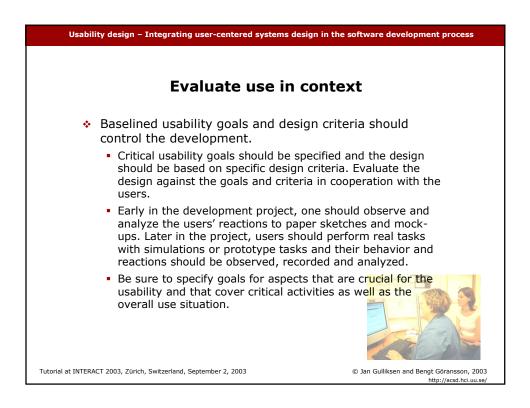


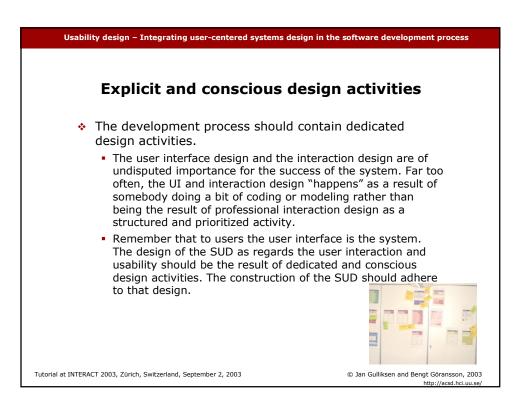


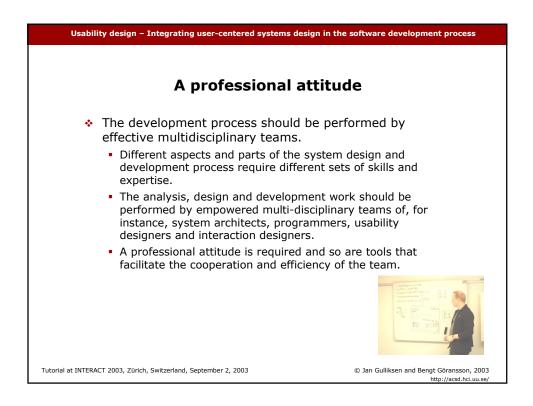


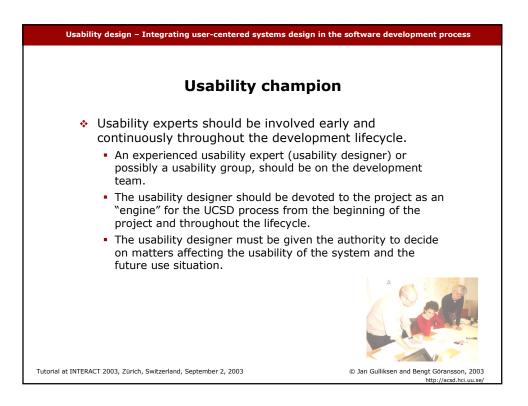


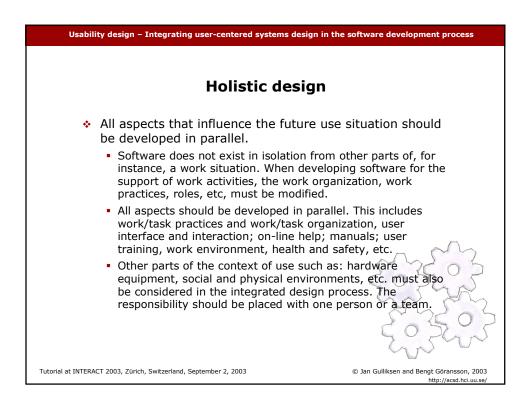


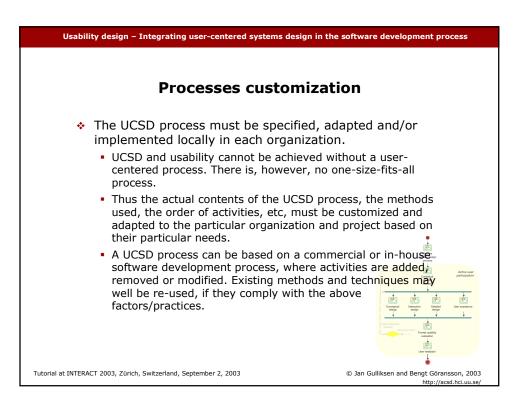


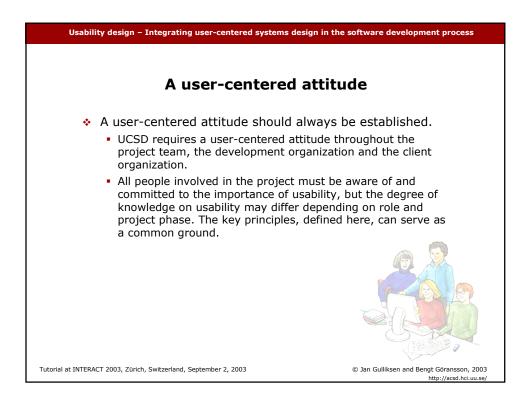


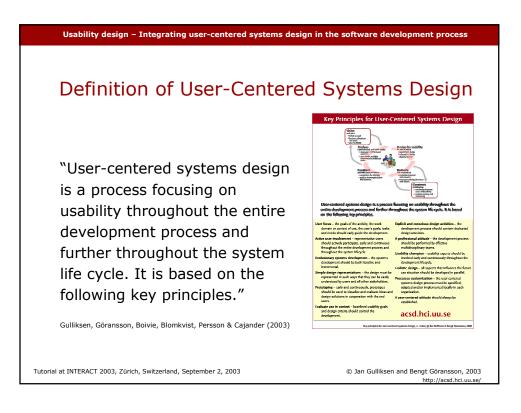


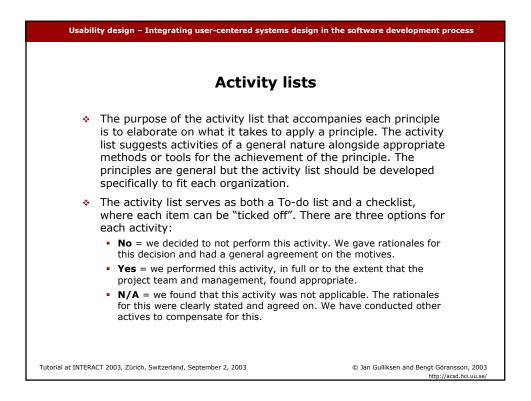


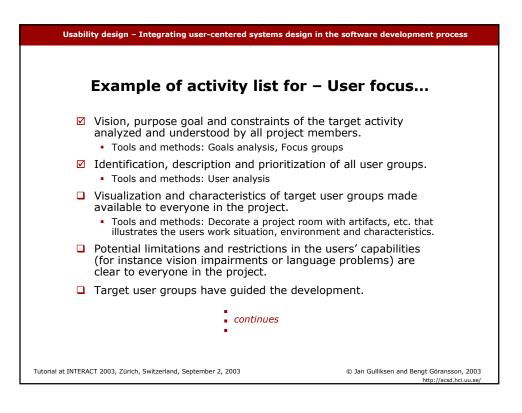




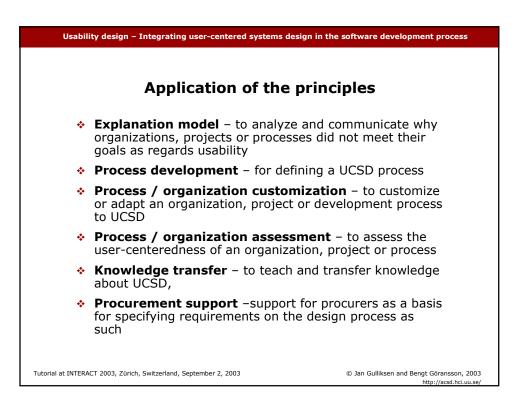


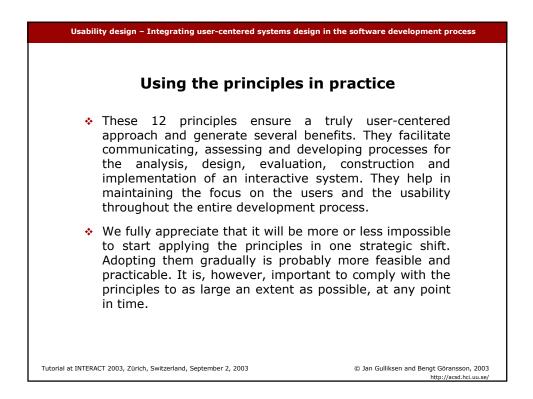


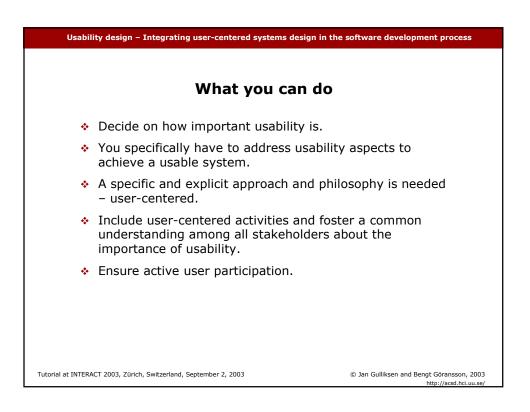


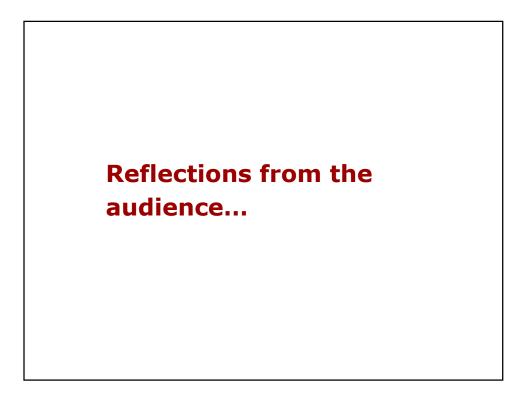


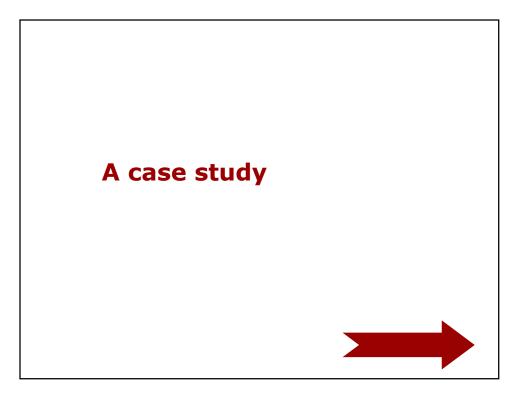
example of activity list for – User focus		
	 continued 	
	 The users have expressed their impressions of current system and expectations on future system. Tools and methods: Users asked about good things and bad things in their current work situation, Think-out loud. 	
	 Users observed as they were performing their tasks in context. Tools and methods: Analysis of information utilization, Context-of-use analysis, Field studies, Contextual inquiry. 	
	Use situation documented Tools and methods: Video and still camera, scenarios, personas 	
	Tasks analyzed. Tools and methods: Task analysis 	
	Copies of artifacts (forms, documents archives, notebooks, etc.) used by the users collected.	

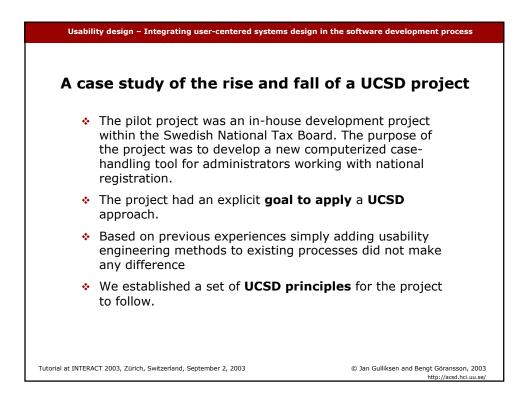


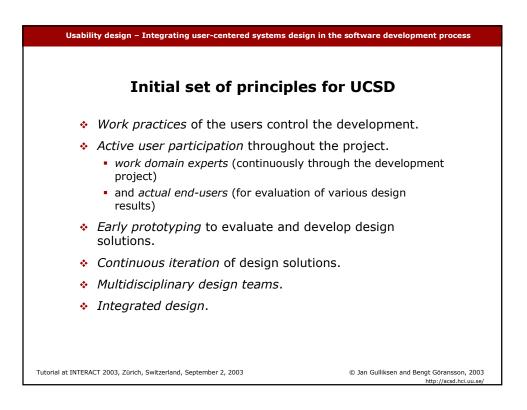


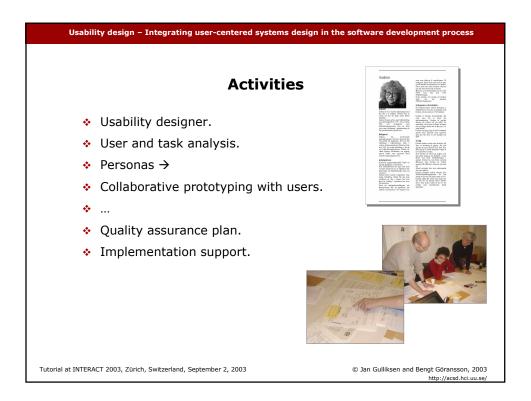


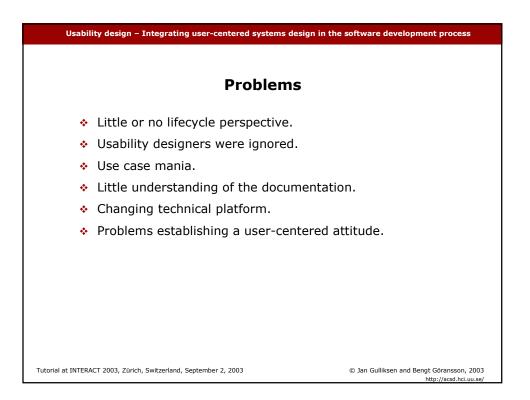


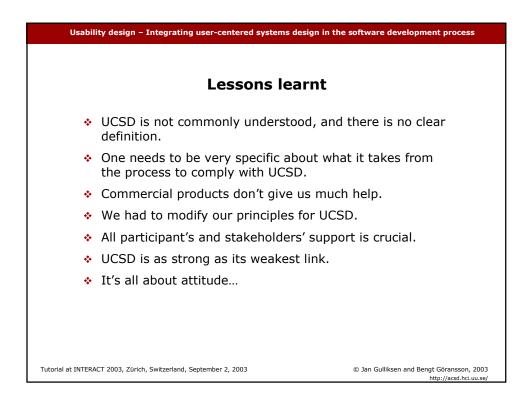








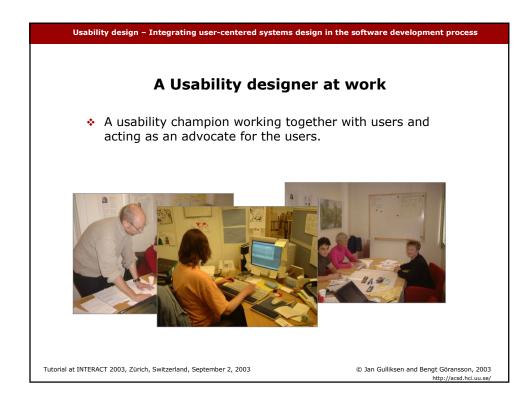




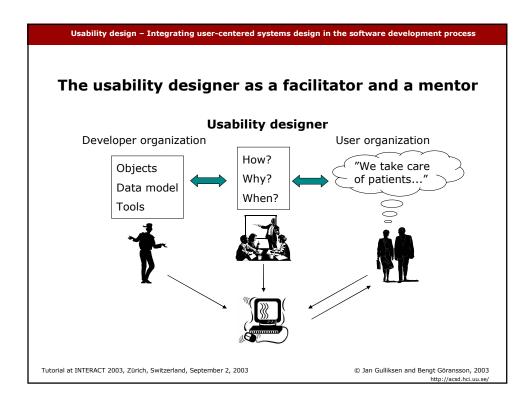


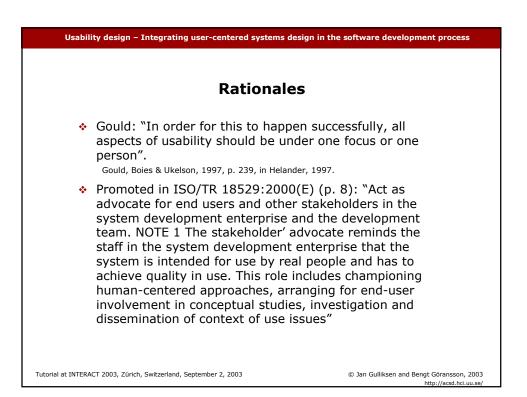




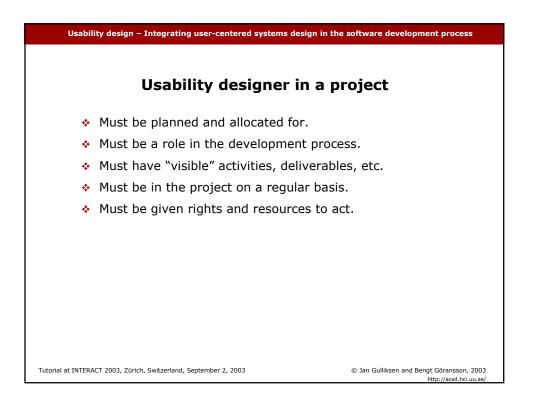


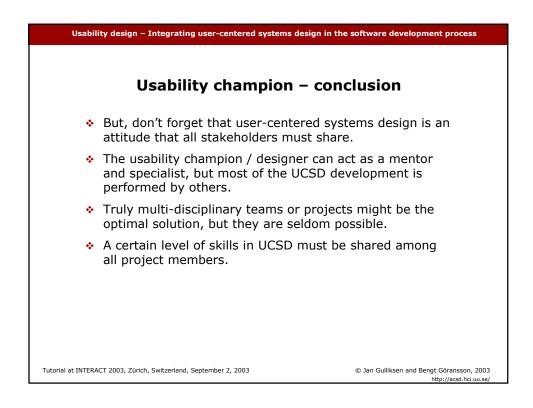


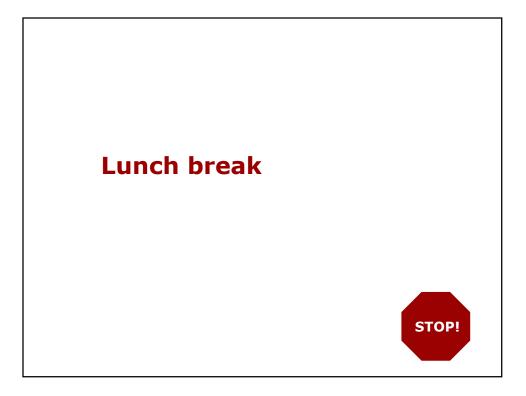


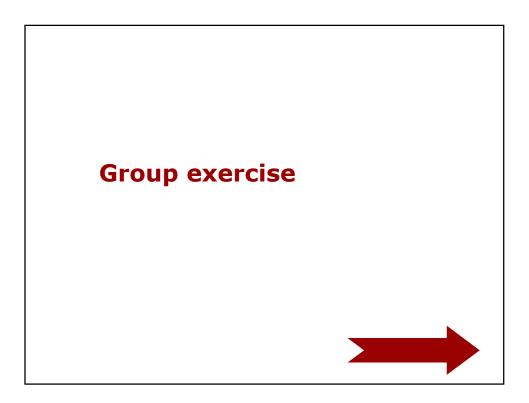


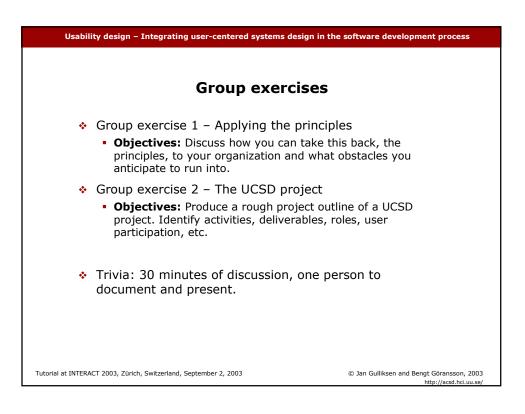


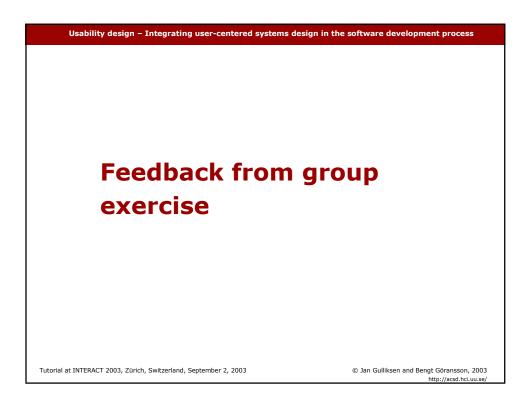






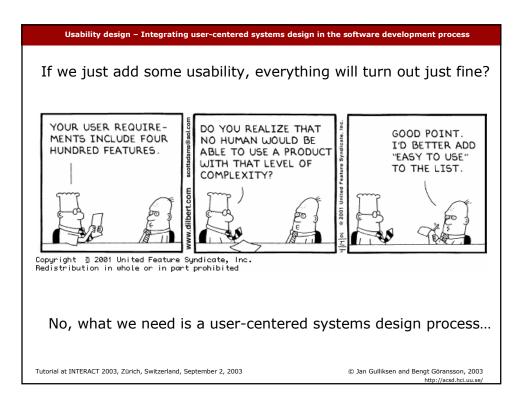




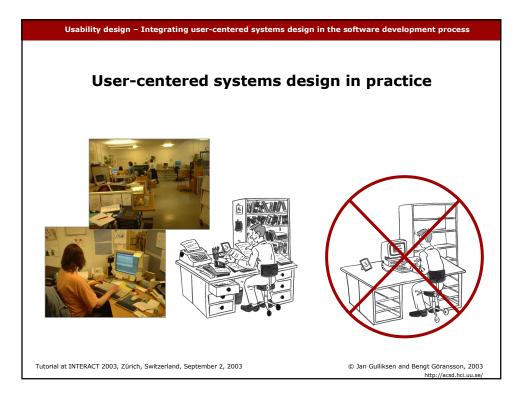


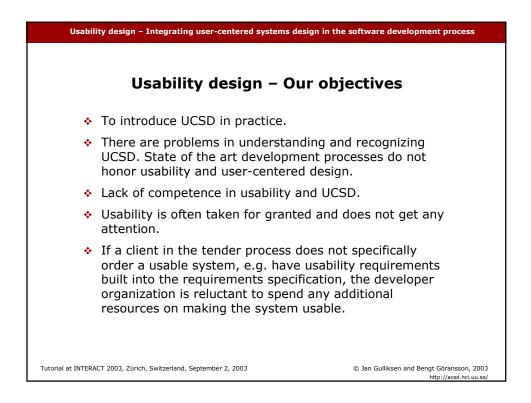
Usability design – Integrating user-centered systems desi	
Proposed Age	nda
9.00 – The Start	
Welcome and presentation of participant	ts
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Discussion, questions and hopefully som	ne answers
17.30 – The End	
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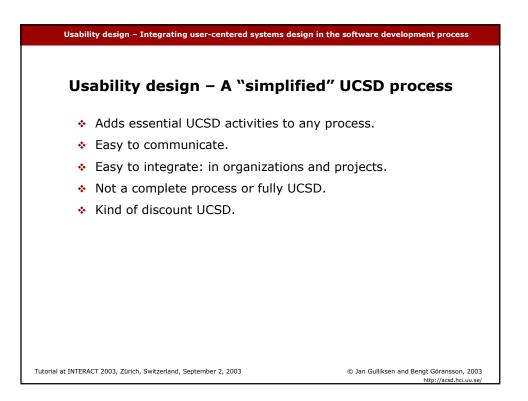


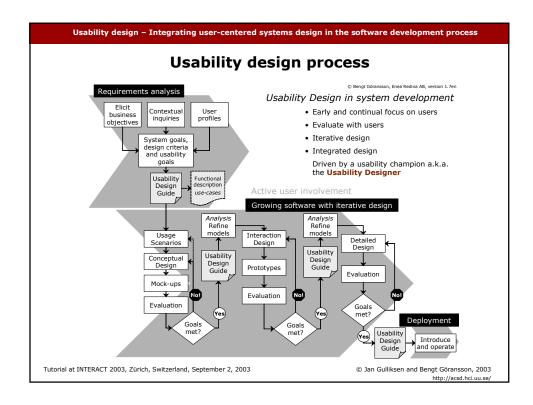


Usabil	ity design – Integrating user-centered systems desig	gn in the software development process		
	To practice user-centered systems design			
٠	You have to decide on making usable s Demands the "users" of the process (the centered attitude and act accordingly. 	,		
*	 All stakeholders have to agree on this a clients, managers, users, developers, e Further on, there must be an understand development organization and the organi work according to a user-centered design 	etc. ling between the ization buying the system to		
*	There must be requirements on usability what kind of process to use.	ty as well as demands on		
*	 A dedicated plan and process to incorplactivities in systems development. User-centered systems design must becorprocedure for a developing organization. 			
*	A project role to assure the user-center champion or usability designer.	red focus: usability		
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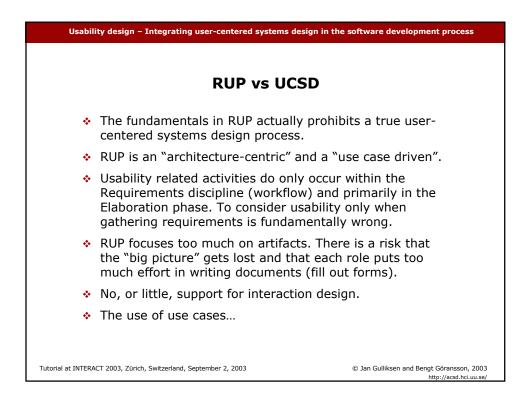


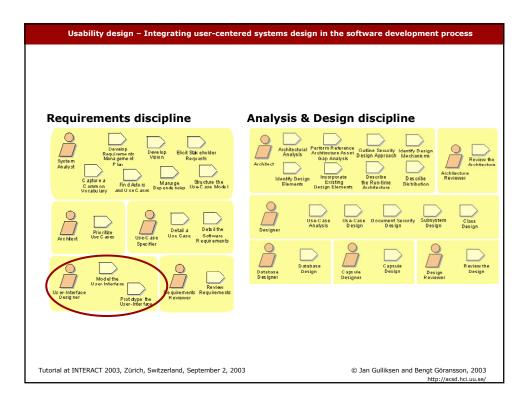


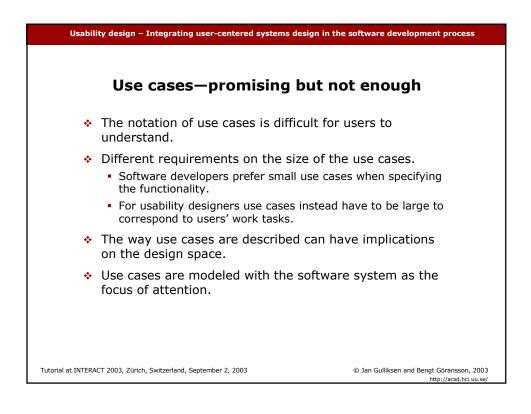


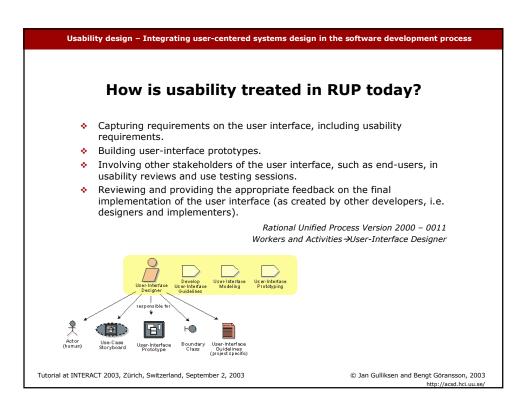


Usability design – Integrating user-centered systems design in the software development process				
Technology-driven design vs. user-centered systems design				
Technology-driven design philosophy	User-centered systems design philosophy			
Technology/developer-driven —	→ User-driven			
Component focus —	→ Solution focus			
Individual contribution —	→ Multidisciplinary teamwork including users, developers, customers, usability experts			
Focus on internal architecture -	→ Focus on usability attributes: effectiveness, efficiency and satisfaction			
Quality measured by product defects — and performance (system quality)	\rightarrow Quality defined by usability (quality in use)			
Implementation prior to usability — validation	 Implementation of user-validated solutions only 			
	 Understanding the context of use: user, work task, work environment 			
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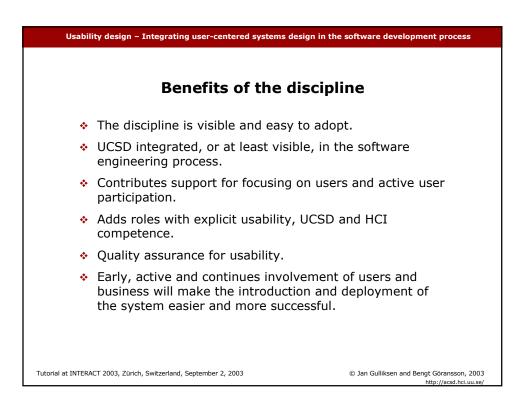


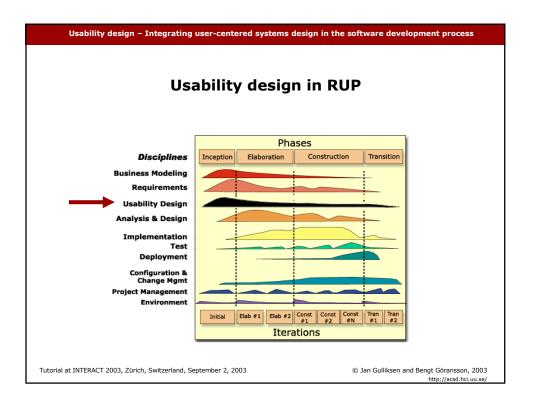


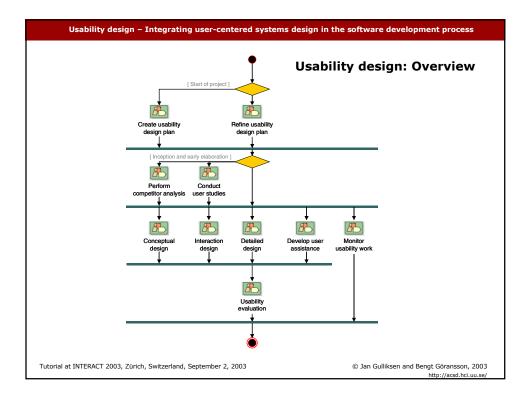


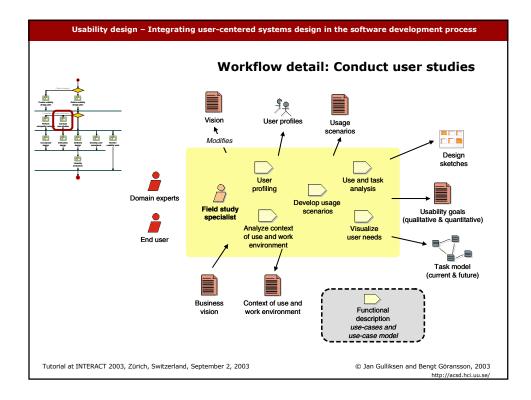


Usability design discipline				
*	A plug-in to RUP: textual and graphical guidelines, examples and templates.			
*	Adds the key principles for user-centered systems design to Best Practices segment in RUP.			
*	Contains accepted design and usability methods.			
*	The "news" is that they are put into a software engineering framework (RUP) and that they go beyond usability testing and usability goal setting / requirements.			
*	User-centered systems design throughout the systems life cycle.			
*	RUP will never be fully user-centered, but it can be improved.			
*	Developed by us, Enea and Rational. Will be available for use by us (Enea) and our clients.			

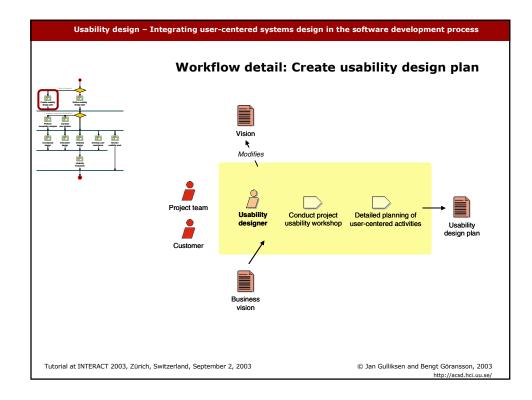


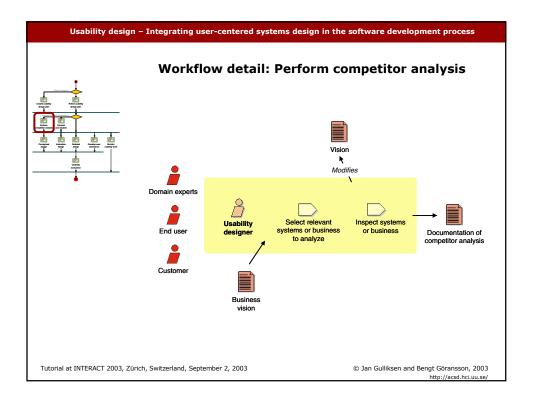


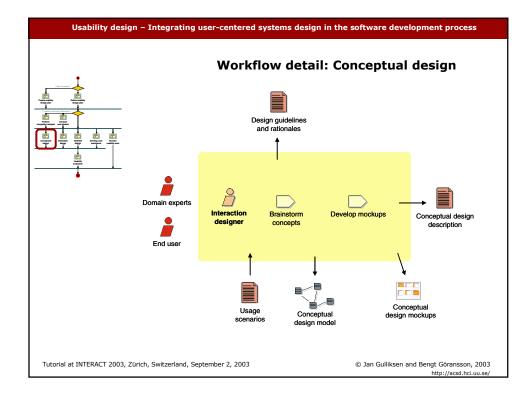


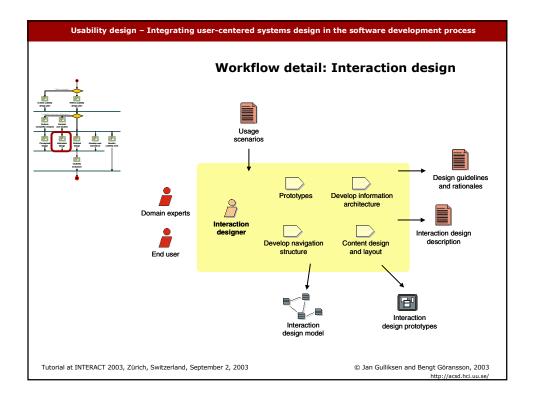


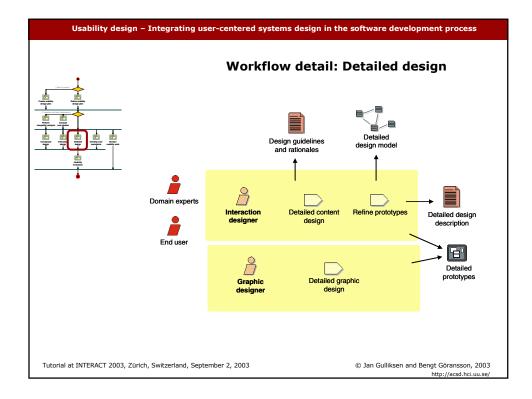
Usability desi	ign – Integrating user-centered syste	ems design in the s	software developm	ent process
	Activity: Us	er profiling		
	Purpose			
	Define users, their characteristics and prioritize the	m		
	Steps			
	To understand who to use the system Collect characteristics of different user categories Prioritize user categories			
	Input artifacts •	Resulting artifacts • User profiles • User model		
	Role: Usability designer			
	Tool mentors •			
	Workflow details •			
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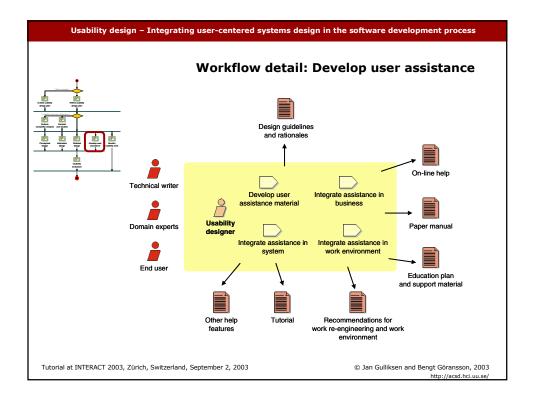


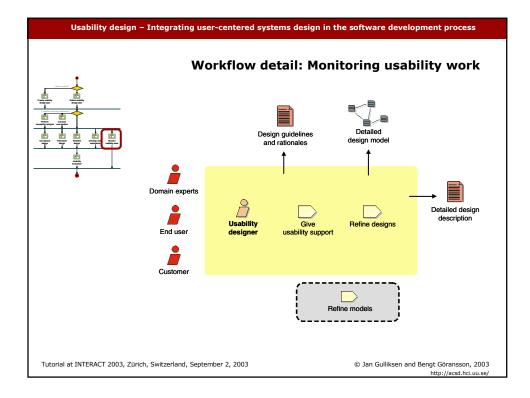


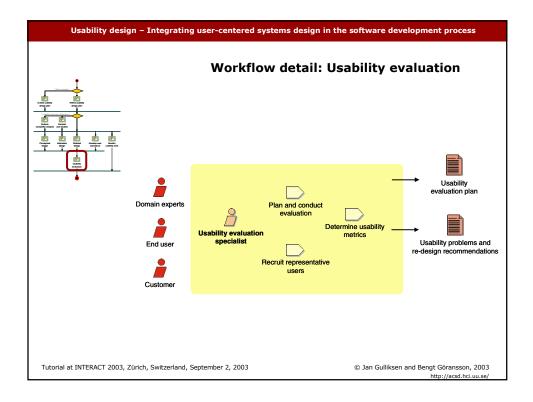


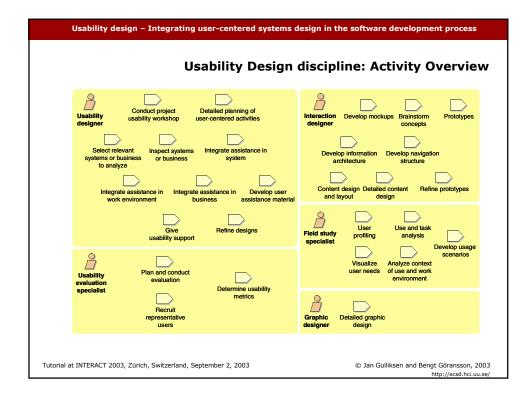


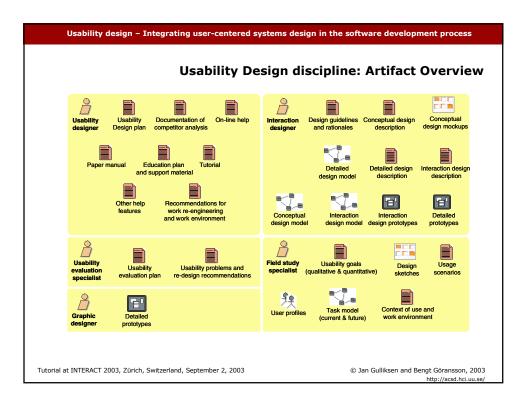


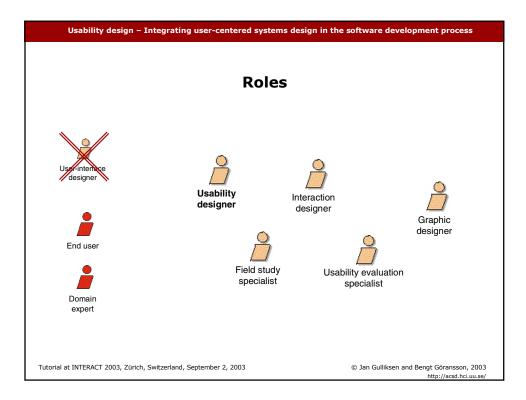


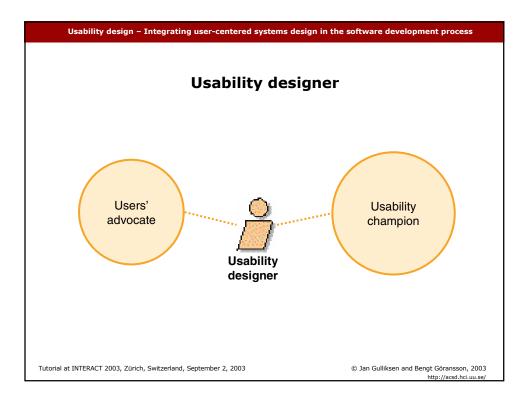


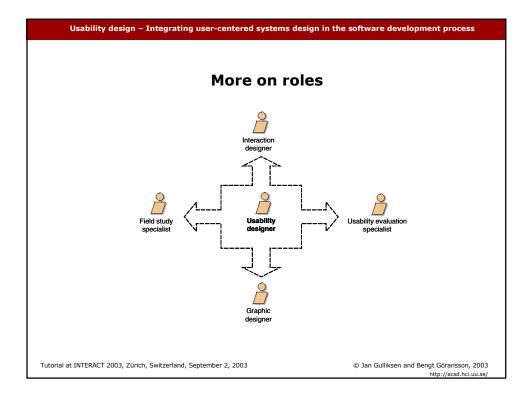


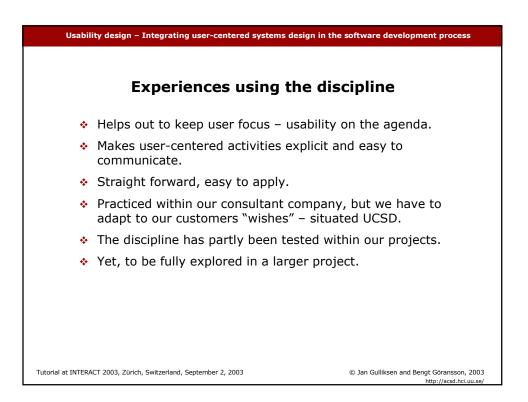


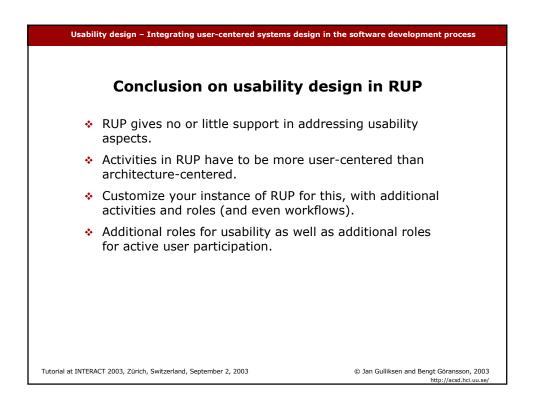


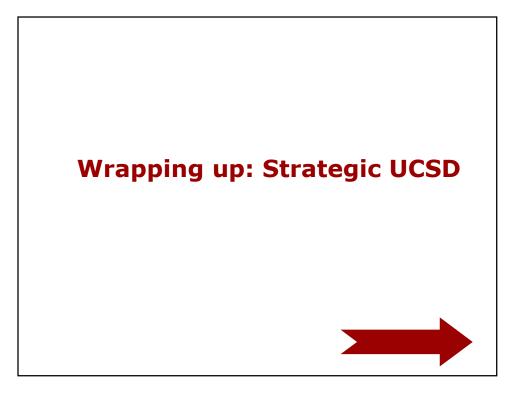


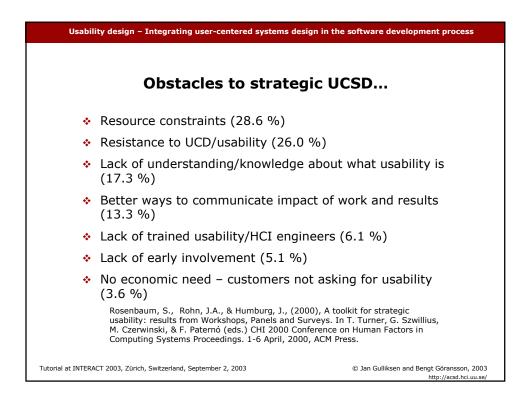


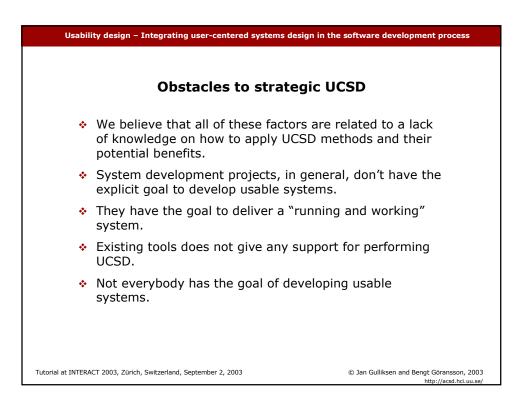














Usabi	ility design – Integrating user-centered systems design in the software development pro	cess
	Promoting UCSD	
*	 Focus on influencing people. 	
*	Gaining initial support for usability.	
*	 Single usability designer / champion. 	
*	 Introduce usability methods and techniques. 	
*	 Cost justification – "number crunching". 	
*	 Demonstrate what usability is all about – demonstrate value. 	
*	• Make usability visible.	
*	 Introduce UCSD, nice and easy. Be careful not to overwhelm the receiver. 	
*	• Get into project plans is a key success factor.	
*	 Possible pitfall: creating a single usability position, but never getting any further. 	
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