



Participatory Design

Include users and designers in collaborative design



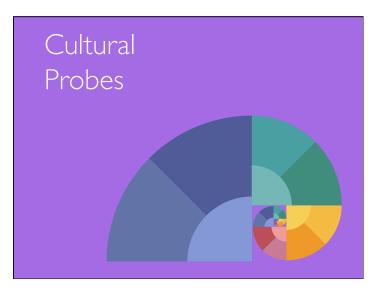
Participatory Design

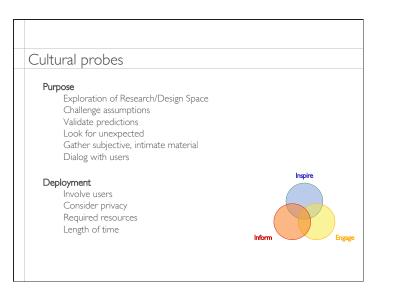
Techniques include regular and video brainstorming, developing scenarios, paper prototyping and video prototyping



Why participatory design?
Asking users \neq letting them show you
It is hard to figure out what the user experiences especially if you are not one of your own users.
Your instincts are not enough and often wrong and get worse as you delve deeper into the design.
You will understand the system more but the user less.

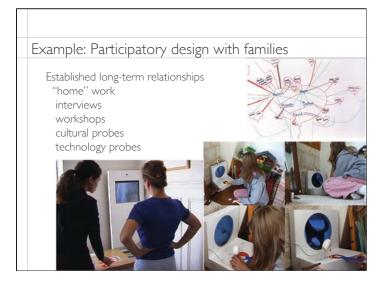




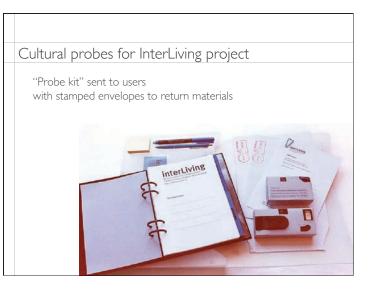


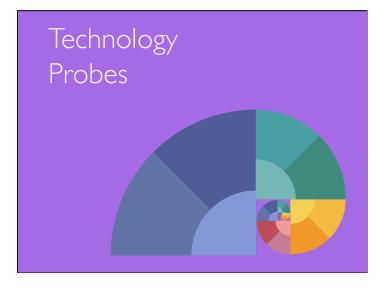












Technology probes

Goals:

- inspire users and designers to generate new design ideas
- understand how a technology is used in a real world setting
- study emergent behavior patterns around new technologies
- create common ground for subsequent design

Combine three perspectives:

- Scientific: Design:
- collect data about users in situ Engineering: test technical infrastructure inspire new ideas

Technology probes

Three phases:

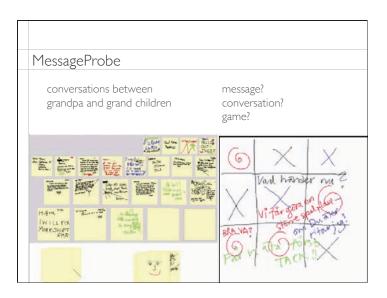
- I. Introduce technology to users
- 2. Observe and interpret use in situ
- 3. Participatory design to explore alternatives and new ideas

Compare:	Technology probes	Prototypes
Simplicity: Usabilty: Logging:	Single function Not the focus Major focus	Multiple functions Major focus Secondary focus
Flexibility:	Open-ended	Specified purpose
Originality:	Unusual, provocative	Relevant to needs
Design cycle:	Early-middle	Middle-end
Longevity:	Throw away	Evolvable
Concept:	Still unclear	Mostly defined

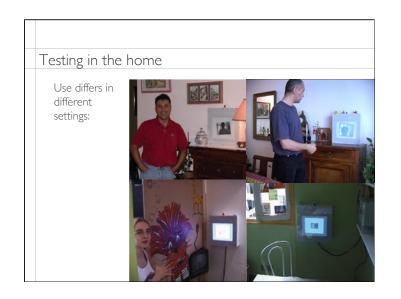
Example: InterLiving Goals: learn about family communication discover real-world technological constraints spark new ideas Technology probe, not a prototype: Simple, single function technology Installed in home settings over time Open to reinterpretation by users Instrumented to log data Follow-up prototyping in participatory design workshops











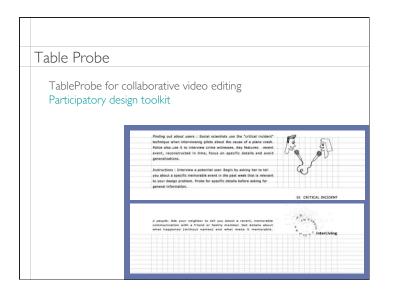
Wendy E. Mackay

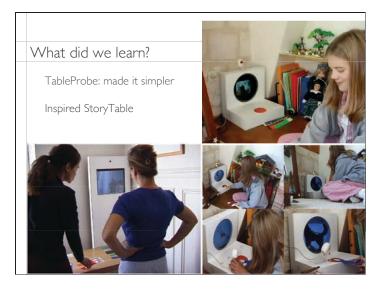




Exercise: Design a	probe
vvnat would you like	to find out about your users?
capture relevant ir provide elements	g device can you use that will: nformation from them of a new experience that ideas relevant to your project?
Cultural probes: Technology probes:	Discover user characteristics Inspire new designs





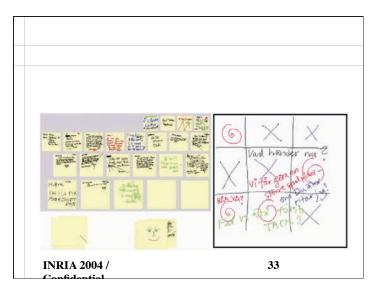


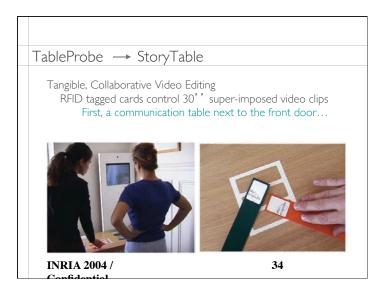




Synchronous or asynchronous Zoomable interface All notes shared among all households Temporal or selected order

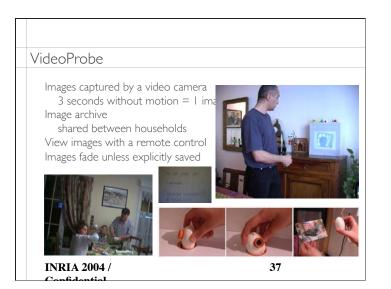


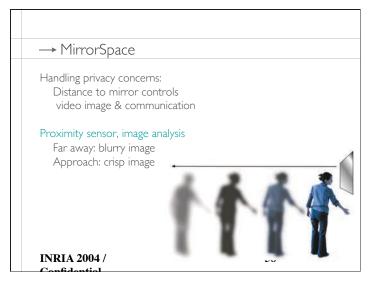














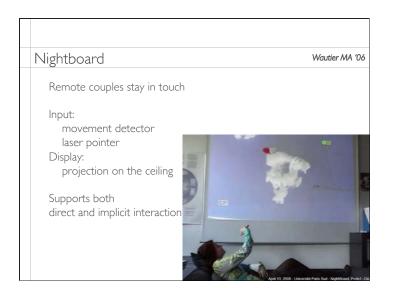




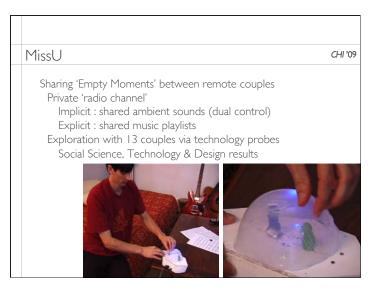


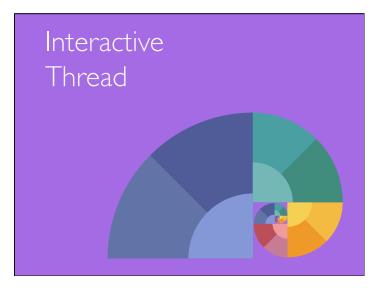


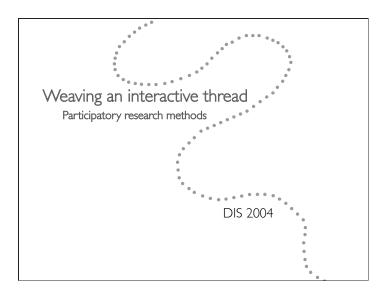




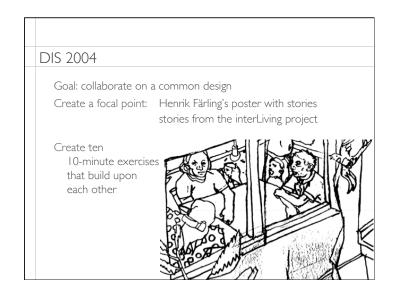


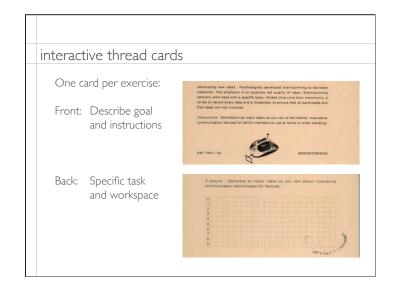




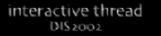










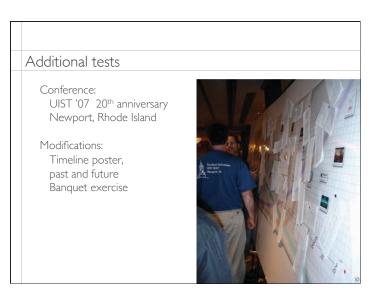


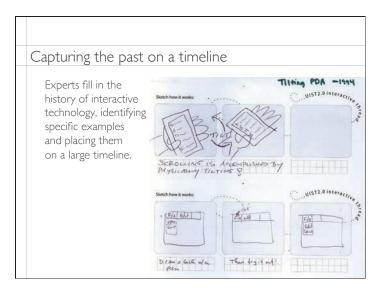


What we learned

- What worked well: Poster as focal point Early, short exercises Data gathering exercises Participant interaction
- What worked less well: Removing poster after day I Longer exercises Too many exercises Stress from linked exercises



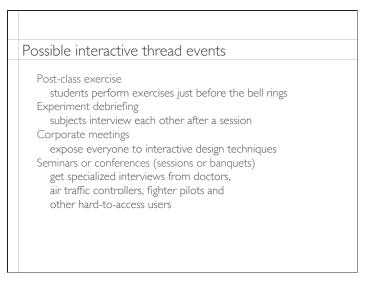






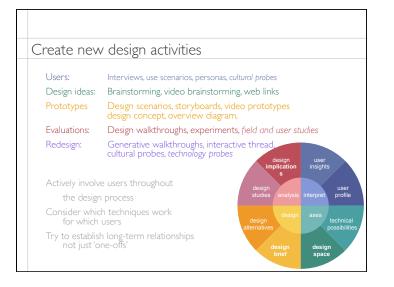












participatory • Design 3 a	uld prepare a 75-minute design session for another group ctivities (NOT interviews!) nethod cards	
What do you n How will the re		
help you mo	dify your design?	

