

The next five years in telepresence

Nicolas Roussel

Projet In Situ
Université Paris-Sud & INRIA Futurs

My perception of today's telepresence

Telepresence: remotely sense and affect people and objects

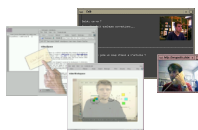
Current systems

- aim at *being there* (at least)
- focus on real-time object manipulation and face to face synchronous collaboration
- require heavy hardware/software and possible training
- are designed for businessmen or engineers

More technology is better (they say)

"The technology is not there yet, but tomorrow..."

Over the last six years...



Using video for synchronous collaboration



Using video and the Web for group awareness and coordination



Using audio and video to support teleconviviality



Sharing daily lives by exchanging pictures

What I learnt from these projects

Getting and keeping in touch over distance is hard

Being in the same place is not *being together*

Details of everyday life (or work) are highly valuable



Details is not "detailed view"

Less interaction, less bandwidth are better

Promising directions

Coordination and informal communication services for small groups of friends and relatives

- intimate talks
- both synchronous and asynchronous

Experiencing less than the full reality: reducing the length of the message while preserving the meaning

Low bandwidth, unobtrusive, lightweight systems

Examples

- SMS and instant messaging
- R. Strong and W. Gaver. *Feather, scent and shaker: supporting simple intimacy*. Proceedings of ACM CSCW'96.

InterLiving

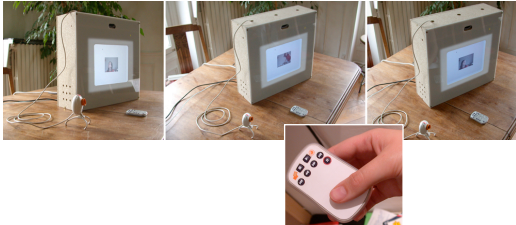
Using participatory design techniques to create technologies for families that foster intergenerational activities among multiple households

Partners

- CID KTH, Sweden
- INRIA and Paris-Sud University, France
- HCIL University of Maryland, USA
- 3 french families, 3 swedish

H. Hutchinson et al. *Technology probes: inspiring design for and with families*. To be presented at ACM SIGCHI conference 2003.

InterLiving - VideoProbe



InterLiving - VideoProbe



InterLiving - VideoProbe



InterLiving - VideoProbe

