



introduction

- Hughes et al. (1994) proposed that one general use of ethnography for systems design be **evaluation**
 - for example, where the study is undertaken to verify or validate a set of *already formulated decisions*
- Crabtree et al. (1999) suggest that the design of such virtual environments requires **explicit study** of participants at very early stages of the project
 - as an example, *evaluative ethnography* is applied to virtual environments by the authors



- current systems for collaborative learning do not support the same **knowledge-sharing** environment that face-to-face situations enjoy [Britain and Liber, 1999]
 - in particular, there are difficulties to *represent context* and abstract information for knowledge sharing
- ViDESK is designed to address it, in order to facilitate support for Computer Supported Collaborative Learning (CSCL)
 - ViDESK <u>Vi</u>sualisation <u>De</u>sign for <u>Sharing K</u>nowledge

introduction: outcomes

- users need time to learn how to use a computer tool and evaluation **informs** some of the ways in which users adapt to and accommodate to the tool [Calvey et al., 1997]
- lessons learned from ViDESK suggest
 - that ethnography approaches may help *informing both design issues and data analysis*
 - the use of an ethnographic approach provides additional evidence or, at least, more data to perform an analysis where underlying models for providing metrics and measurement are under definition or not widely accepted







experimental Methodology

- evaluation of collaborative technology is done best through **field evaluations** because these can be used to assess social-psychological and anthropological effects of the technology [Grudin, 1988]
 - an attempt to analyse all the dimensions involved in ViDESK usage would have lead to a huge amount of gathered data, much of it *irrelevant* to the learning process.
 - ethnography is an intrinsically *descriptive task* that resists formalisation and its methods *rely on the study of people and their activities* in their natural environment





- ethnography can provide qualitative insight in the way how people really feel presence
 - allow qualitative data collecting from ongoing experiments, giving additional results to inform used metrics and refine presence measurement
- ethnography can be considered as the reporting and analysis of fieldwork study (qualitative methodology)
 - provide a "human touch" in a human related issue such as the one provided by the notion of presence
 - resulting data collections can include a wide range of subjective impressions such as the case of qualitative anecdotes or critical incidents that capture user experiences



- ViDESK proposes a virtual environment approach to introduce the co-construction of knowledge and provide the experience of discussing and enhancing a context following a constructionist approach
 - they learn by doing, constructing and arguing (a number of learning episodes were identified as outcomes from using the system)
- as a result of using a mix between an ethnographic approach and quantitative research, a number of conclusions were obtained, both for listing a number of design requirements and assess the system