The Financial Business Case for Ubiquitous Computing Business Applications

Abstract

Ubiquitous Computing (UbiComp) applications involve large numbers of non-traditional networked computing devices which are often mobile and usually equipped with sensors to collect data.

The goal of this paper is to develop a framework for evaluating the financial impact of UbiComp business applications. So far there is no clear understanding which applications might be financially feasible.

We identify five generic business applications in which UbiComp technologies can create value and some potentially important value and cost drivers. We also propose a model for calculating the financial value for these applications.