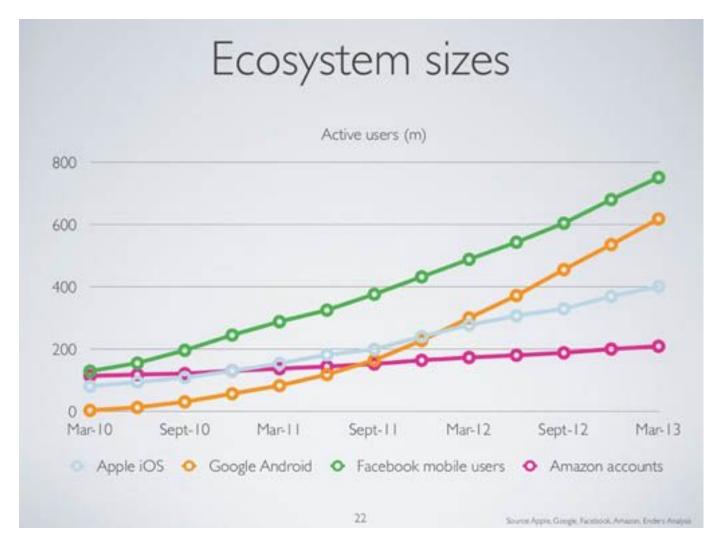


Agile, eXtensible, fast I/O Module for the cyber-physical era

CHI2015 Workshop on Ecological Approach
Seul, 19th April 2015

Università di Siena: UNISI





VISION



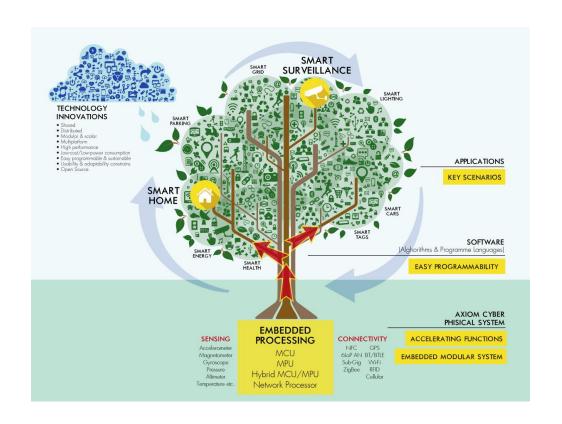


 Cyber-physical systems, embedded systems, or for simplicity the IoT do point in the direction of a complete integration of computing into our built environment

VISION







VISION





A very interesting design space to be explored related to how we can reimagine and repurpose spatial dimensions of our built environment at the intersection of architecture and interaction design.







 "Imagine a world without architects, where only engineers construct buildings. With a keen eye toward functionality, these engineers would make sure the buildings were sound, but something would be lacking. People would miss the richness of architecture—the designed connection to their lives, history, and culture. The designed experience of these buildings would be irrelevant to their social and personal concept of buildings. Yet this is the world researchers are inadvertently creating with ubiquitous computing" Sengers et al 2004

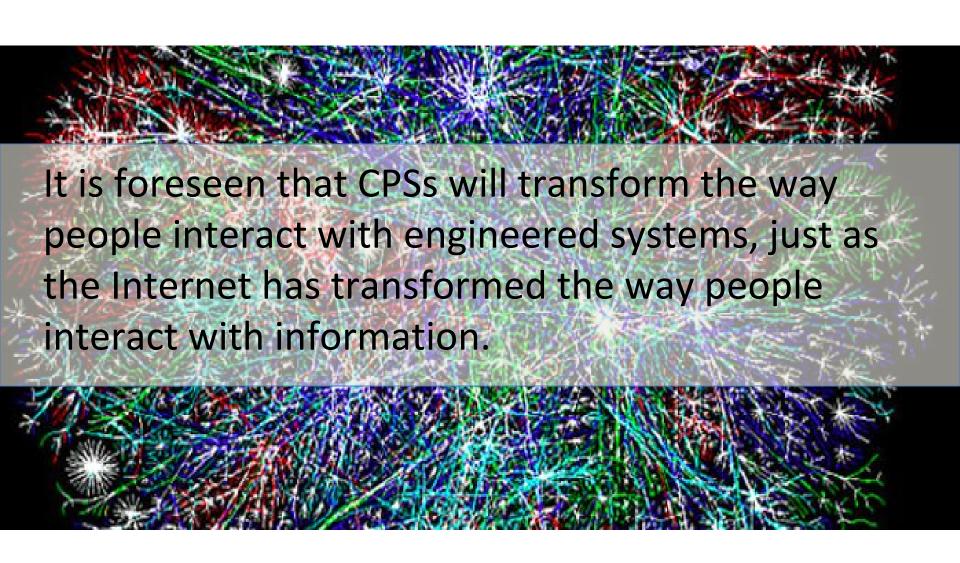
















 The social impact in our everyday life is predicted to be even more impressive than that of the Web





 What methodologies do we have for incorporating and representing sociocultural and behavioral aspects in computing systems?



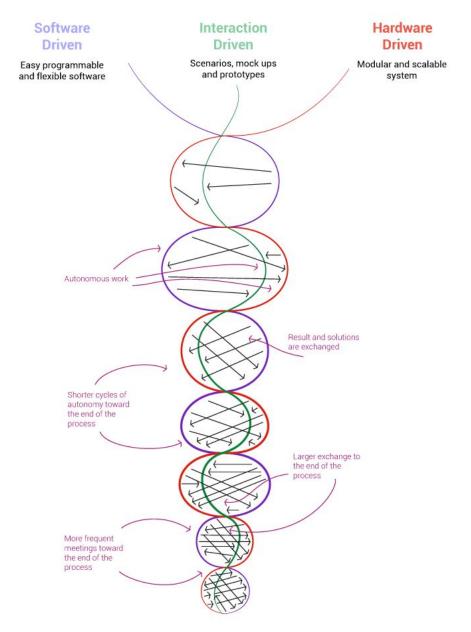


Co-evolutionary Design

The design process is co-evolutionary since Hardware design (e.g.modularity, scalability) Software design (e.g.programmability, real-time computing) and Interaction design (e.g.products and services) are carried out in parallel (divergence phase) and then integrated (convergence phase) in form of outputs described in the respective **WPs**













Agile, eXtensible, fast I/O Module for the cyber-physical era PROJECT ID: 645496













