Working with Users - the Human Factor

7 Questions Driving User Centred Systems

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Based on: Ritter/Baxter/Churchill (2014), Foundations for Designing User-Centred Systems, Springer

Functionality

- * What is the reason for buying or commissioning the system?
- * What is it that the system is supposed to do?
- * What will be achieved by deploying the system?

Usability

- * hard to define comprises performance of and attitude to system
- * ISO 9241: "the usability of a product is the degree to which
 - * specific users
 - can achieve specific goals
 - within a particular environment
 - * effectively
 - efficiently
 - * comfortably
 - in an acceptable manner"

Learnability

- * How easy is it to learn the system?
- * What do users need to know in order to learn the system?
- * What documentation is required?
- * How consistent is the system with others that people already know?

Efficiency

- * What is the optimal level of efficiency?
- * Computer-centric: speed of the system
- Human-centric: time user spends completing a task
- * Can be measured in time or actions / operations

Reliability

- * How likely is it that the system will fail?
- * How easy is it for a user to break the system?
- * How consistent and predictable is system behaviour?
- * How safety critical is the system?

Maintainability

- * How easy is it to understand what the system does for maintenance purposes?
- * How easy is it to upgrade a system?
- * How easy is it to fix errors and add new functionality?
- Covers users, developers, and administrators

Utility

- * Why should we bother?
- * What is the expected shelf life?
- * Will people work with or around the system?