

## Steps in a usability evaluation

### *Define the goal of the test*

Create hypotheses ('Diagnostic' or  
'Formative')

Define measurements

*"Productive time"*

*Occurrence of problems  
(define!)*

Evaluating ('Summative')

Against what?

*Set goals*

*Competing products*

*Expert performance*

*Existing system*

### *Define populations of*

Users

Environments

Tasks

### *Select samples*

Users

Participant selection

*Stratification + random  
sampling*

*If too costly*

Representativeness

Assignment (if more than one  
version of system)

*Random*

*Matched*

Tasks

Random sampling too costly

Representativeness

More than one task?

*Random assignment*

*Counterbalancing*

Environments

Differences between the real  
world and your measurement  
situation

The actual situation

*Experimenter effect*

*Expectancies*

What can be done?

*Blind procedures*

*Automation*

***Create concrete tasks and environments***

***Recruit test persons***

***Choose things to register***

Governed by earlier choices

Two types of main things

Events

States

**Remember!**

Always operational definitions of everything

***At test time***

**Prepare**

Cue cards (tasks)

Recording device

Test leader material

**Welcome the person**

**Initial session one on one**

Ethical information and consent forms

Ensure the participant that it is the system being measured

Pre-test questionnaire

**Warm up tasks**

**Administer tasks according to plan**

**Do not interfere with test person**

unnecessarily and never in such a way that the validity of the measurements are endangered

Ethical rules must be adhered to, of course

**Debrief**

**Back up copy of recording**

***Analysis***

**Don't forget to validate observers**

***Prepare report***