EDUKALIBRE – Pedagogical issues

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It is a diverse world

- **What is e-learning**
- **What kind of e-learning**
  - Web based, On-line
  - Resources vs On-line course delivery
  - Distance vs Face to face
  - Asynchronous vs Synchronous
  - Individual vs Group work

What pedagogies?

- **Classical stuff**
  - Knowledge transfer
  - Constructivism
- **Types of learning**
  - Problem-based learning
  - Cognitive apprenticeship
  - Programmed learning
  - Computer-Supported Collaborative Learning

Why are they needed

- **MINERVA requirement**
  - The tools developed should be based on sound educational theories
  - We had to describe “specific pedagogical and didactical approaches”

Why are they needed (cont)

- **Effectiveness**
  - Not just providing teaching materials but ensure that there is an educational impact
  - That impact can be ensured if pedagogical principles are followed
  - Pedagogical aspects are also considered when the systems have to be evaluated

Why are they needed (cont)

- **Re-use**
  - Different pedagogical styles & different learning styles
  - Across countries, overcome cultural differences
  - Meta-data and standards increasingly important

Use pedagogies in design

- **Decide which type(s) of learning**
- **Examine existing platforms and see what works what does not**
- **Identify appropriate tools to support learning**
  - Notice board
  - Question and answer
  - Tutorials
  - Electronic discussions
  - Collaborative work

Pedagogies in design: What do we want?

- **Consider the specific requirements of this project**
  - Different partners may follow different pedagogies
  - Can we re-use material developed for one methodology in an on-line course based on another methodology

Pedagogies in design: Choice of pedagogy

- How generic our approach could be – how “libre” the choice of pedagogy will be?
- We should be realistic here!
- **Direction 1**: Survey with students and teachers on what pedagogy to choose
  - What they currently use
  - What tools they find appropriate
- **Direction 2**: Choose one pedagogical theory and try to follow it
  - Can we agree about this?

Pedagogies in design: Dealing with diversity

- **To what extent are we prepared to deal with diversity**:
  - Different countries
  - Different institutions
  - Different learning styles
  - Different learner groups (undergraduates, postgraduates, adults, international students, disabilities)

Use pedagogies in evaluation: Impact

- Have we succeeded?
- I hope the answer will be "**yes**"?
- Then, what is the learning impact. Why should the learning environment we have developed be used by others
  - Cheap does not ensure quality
  - We need to prove effectiveness

How to measure impact

- Pre-test and post-test are not convincing
- Large amount of quantitative data difficult to collect (we don’t have time and resources)!
- Depending on the goals we may need to conduct small studies to show impact in diverse situations