Main Research Lines and Results

Miguel Ángel Conde González
mconde@usal.es
Outline

• Introduction

• Projects and Results

• Conclusions
• Introduction

• Projects and Results

• Conclusions
• GRIAL has several research lines opened

• Each one of the projects developed must have results

• Not always results are products
  ✓ Know how
  ✓ Reports
  ✓ Articles
  ✓ Awards
Introduction (ii)

- Different research lines = different results and products
Introduction (and iii)

- Some main lines of results
  - Contents adaptation
  - Mobile
  - Moodle development
  - PLE
• Introduction

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Projects & Results (i)

• Contents Adaptation to Mobile Devices
  ✓ eLearning evolves with the evolution of new technologies
  ✓ New contexts, new information sources, new devices
Projects & Results (ii)

- Content Adaptation System
  - Mobile learning supporting but no replacing eLearning
  - Widely Accepted Access anywhere
Projects & Results (iii)
Projects & Results (v)

• All kinds of users
Projects & Results (vi)

• Other factors
Projects & Results (vii)

- Problems

PROTESTING AGAINST NEW TECHNOLOGY - THE EARLY DAYS
Projects & Results (viii)

• Problems
  ✓ Need of technological adaptation
  ✓ Need of Pedagogical adaptation
Projects & Results (ix)

• Adaptation system
  ✓ What to adapt
  ✓ How to adapt

• Adaptation of content from LMS
  ✓ What kind of resources
  ✓ What kind of activities
    • Consider the interaction with mobile device
    • Consider the interaction with LMS
Projects & Results (x)

• 2 Final Year Project to develop CLAYMOBILE
Projects & Results (xi)

• Other mLearning initiatives
Projects & Results (xii)

- Other mLearning Initiatives
Projects & Results (xiii)

- Mobile Project for the Escuela de Administración Pública de Castilla y León (ECLAP)
• PLE
  ✓ Learning processes are continuously evolving
  ✓ Not only technological changes
  ✓ eLearning as one of these evolutions
    • Great acceptance but less benefits than expected
    • LMS are commonly used but without expected improvements
      – LMS a space to publish courses
      – Restricted to a period of time
      – Focused on the course
      – Ignoring new initiatives and trends
• LMS are mature enough but must evolve to avoid extinction
• New learning trends as asteroids
Projects & Results (xvi)
• Are LMS the only online learning Tool out there
• Are LMS in the center of the learning innovation discussion on the web
• Looks like Web 2.0 has survived its own hype, and is thriving as a concept of online activity
Projects & Results (xviii)

- New spaces
  - Twitter, Buzz and other microblogging
  - Platforms
  - Maps
  - Video Streaming (YouTube, Vimeo, etc)
  - Social Networks (Ning, xing, Mahara)
  - Wikipedia and other sources
  - Wolfram Alpha
  - Google docs (and clones)
  - Google wave
  - ....

- Other contexts
  - Other ways to access the web
  - Game consoles
  - Mobile Devices
Services used for educational purposes outside the radar of learning institutions and the context of a LMS

Integration between LMS and new trends and technology is necessary evolving towards what is known as eLearning 2.0

This integration must consider...
Projects & Results (XX)

• PLE
  ✓ Student-centered contexts that integrate any tool, service, content involved in eLearning process
  ✓ Some limits must be necessary in the means used by the students (iPLE)
  ✓ New trends and technologies provide benefits but also new problems
    • Improvisation in the use of Web 2.0 tools
    • Technical problems and pedagogical problems (it’s easy to copy and not to create)
    • Lack of support from LMS
  ✓ PLE can solve these problems
• How to define a PLE
  ✓ Start a solution from scratch
    • Most initiatives only integrates different 2.0 tools in a container
  ✓ Based the new system in a existing LMS
    • Requires considering what to export and what to import in the LMS
    • Institution necessities must be taken into account
  ✓ SOA Approach as a technological solution
Need to apply SOA to Moodle
Projects & Results (xxiii)

• How to use it to define a PLE
Projects & Results
(and xxiv)

• Other technological projects
  ✓ Semantic Web applied to learning environments by using layers (http://layers.com/)
  ✓ Define learning apps store for PLE

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Conclusions

• Several types of developments with different results
  ✓ Mobile results
    • Adaptation System, ECLAP, Moodbile, iPhone, Moodle4iPhone
  ✓ PLE results
    • New environments
    • Net tools
    • The user as the center
  ✓ Moodle Development
  ✓ And so on...
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