



Forschungsgruppe Mobile Learning

Mobile Learning Ray 2013

M-UOC

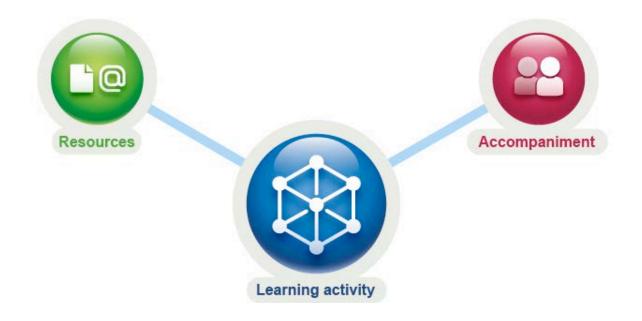
Three Pillars towards Mobile Learning: Mobility, Multimedia and Multidevice

Francesc Santanach – <u>fsantanach@uoc.edu</u> Open University of Catalonia

> DOC Universitat Oberta de Catalunya

About UOC (Open University of Catalonia)

- Founded in 1994 (Barcelona) as an online university.
- Fully online university using ICT as the basis.
- Educational model focused on the learning activity.



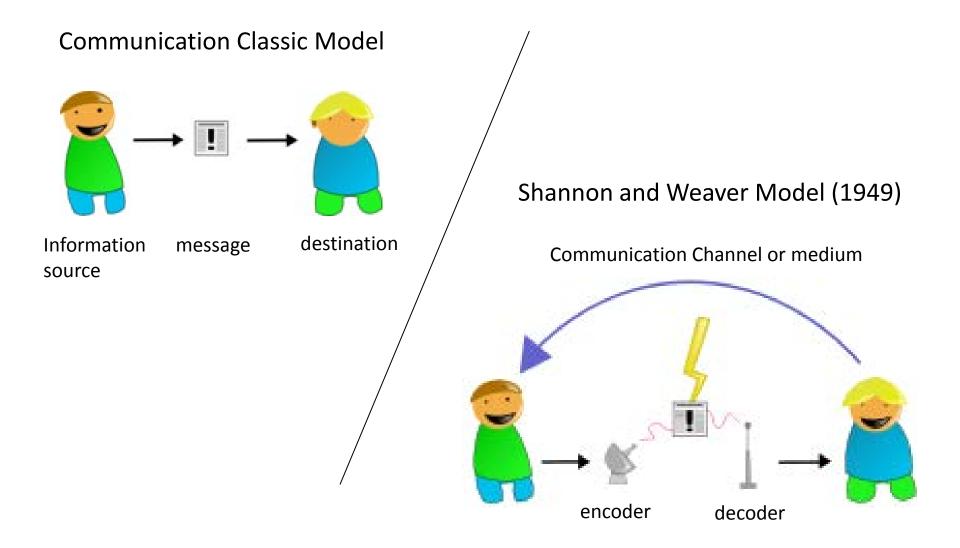
About UOC Students

- There are many typologies of students with different ages, backgrounds, experiences, needs, desires and expectations.
- They are "on" 24x7.
- They are active participants in the learning process.
- They are overwhelmed with information.
- Asynchronous activities the most, but synchronous in some cases.
- "We are all disabled". It depends on the context and the time (at home, bus, train, car drive and other situations).

About UOC Faculty

- Would prefer using different tools and services based on the subject taught or previous experience.
- The online environment is their only medium to teach and motivate students.
- Their "teaching" is essentially asynchronous.
- The resources they use evolve very fast.

Remote communications



Classic Internet based Communication



Encoder/decoder Device: The Computer

Medium / communication channel: The Cloud

No mobility, the device fixes the context



The focus on the medium

Today eLearning Models



Educational Model

Learning Platform

Learning Resources

Learning tools

...

Technologies and processes

Learner and faculty needs

But today ... Wireless and more Devices





More than a "responsive" approach Each device is a new world, research and knowledge is required



New Paradigm. Rethinking ... eLearning Models



Educational Model **?**

Learning Platform **?**

Learning Resources **?**

Learning tools **?**

Technologies and processes **?**

Learner and faculty needs **?**

The Time Problem

The mobile world is growing very fast, can we change the approach faster enough?



Mobile Learning

Mobility Multimedia Multidevice



Mobility

More contexts, more times, more possibilities for learning and teaching



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Assignatura 2





Assignatura 1



Avisos

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Notícies

Agenda

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Desenvolupat per...



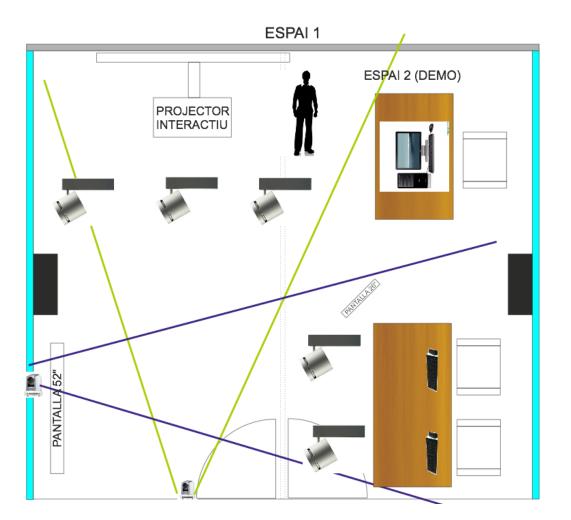
Multimedia

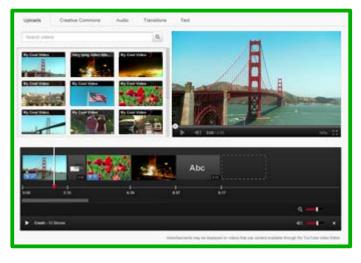
Mobile devices. A portable and open to all multimedia studio



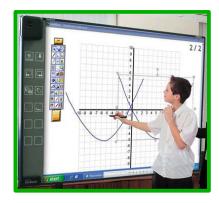
Multimedia Room (Lab)

Both, physic and virtual space Video production space for learning multimedia skills

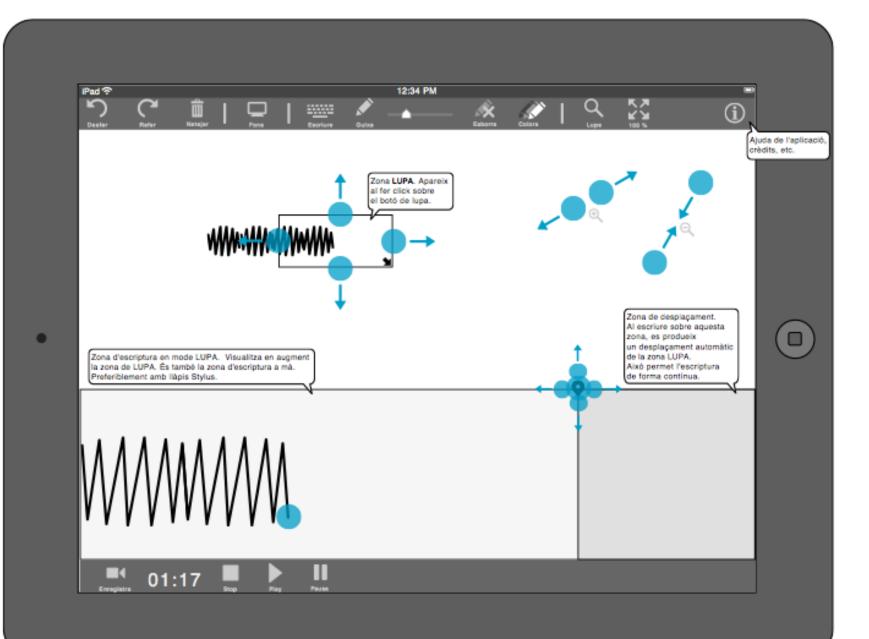






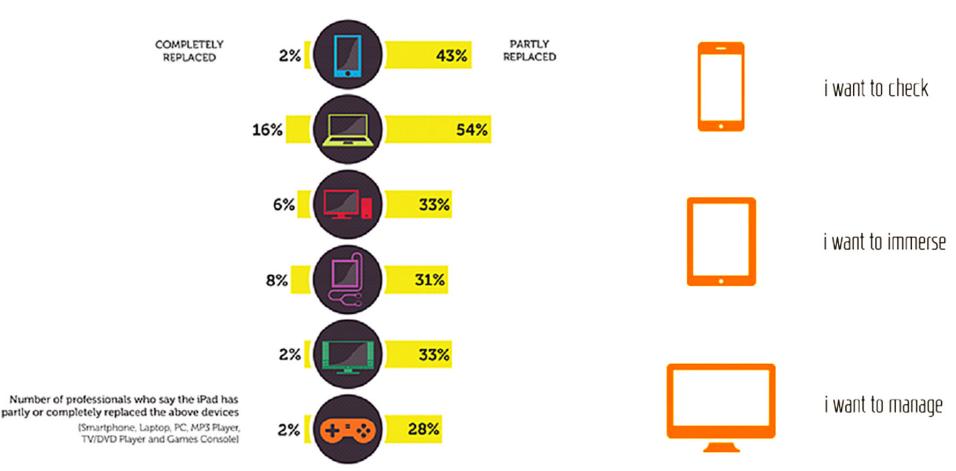


Guixa: https://itunes.apple.com/en/app/guixa/id586894445?mt=8



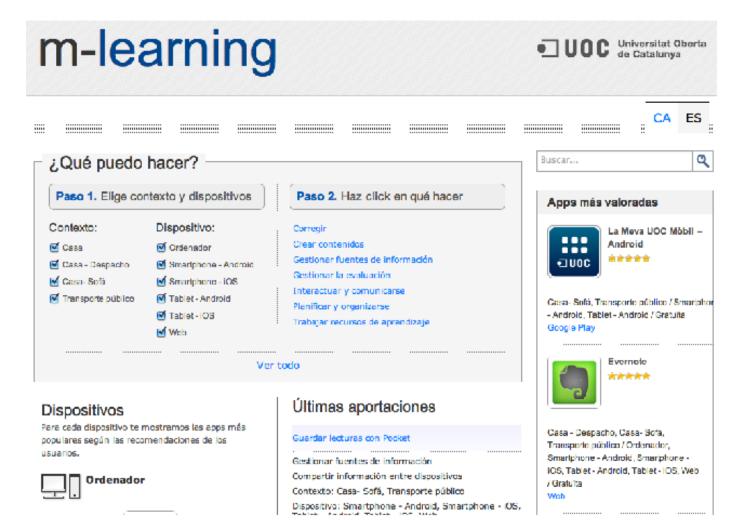
Multidevice

The combined and complementary use of devices provides more possibilities Each device, by its nature, leverages certain activities



http://m-learning.uoc.edu

A social space for UOC students and teachers How to perform learning activities through different devices



The paradigm

The digital world stores the physical world information



IMAGINE a world where everyday things are connected to the web and interact with PEOPLE and OTHER THINGS...

Source: http://siliconangle.com/blog/2013/06/04/

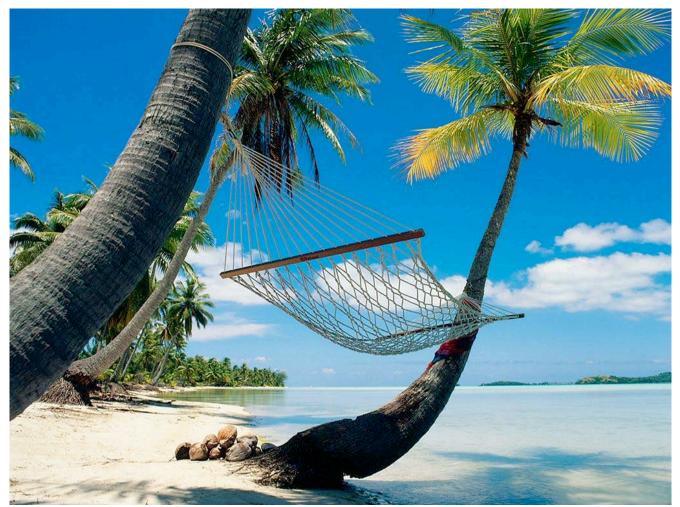
Today Mobile Devices



Apple Store & Google Play are registered trademarks.

The developers' paradise

New technologies, sensors, last frameworks, markets, ...



Source: www.picstopin.com Beach Wallpapers

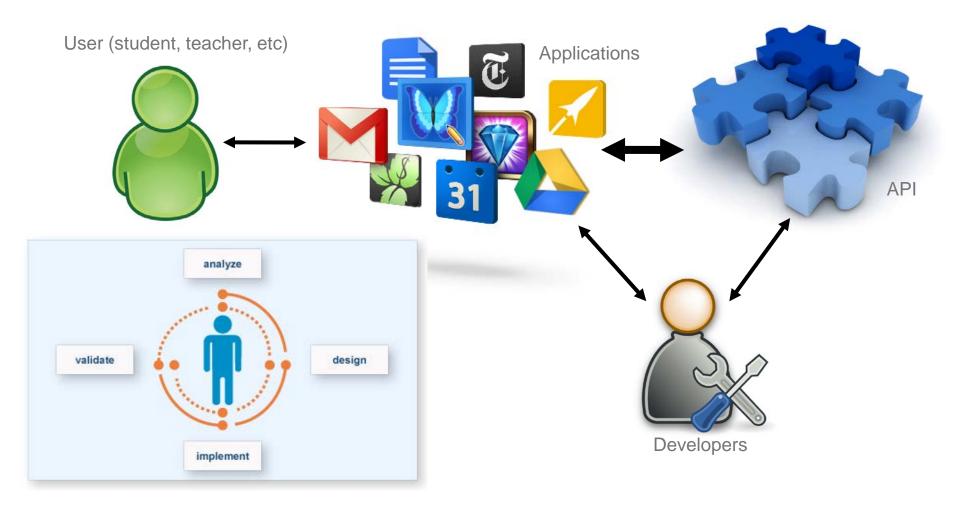
Ecosystem of applications

Lots of Apps for different purposes and interacting together Dynamic: evolution, modifications, deprecation, ... Multiple authors, competition and dependencies



eLearning. From platforms to services

Lots of Apps for different purposes and interacting together



UOC API: http://open-api.uoc.edu

An API for integration and data Web and mobile (REST and JSON) For students, developers and researchers For managing the ecosystem and legal conditions

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Open API

El teu programa, també al Campus de la UOC amb la API

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Thank you! Francesc Santanach – <u>fsantanach@uoc.edu</u> Open University of Catalonia



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