

Interactive BYOD Sessions with Moodle during Lectures at Paris Descartes University

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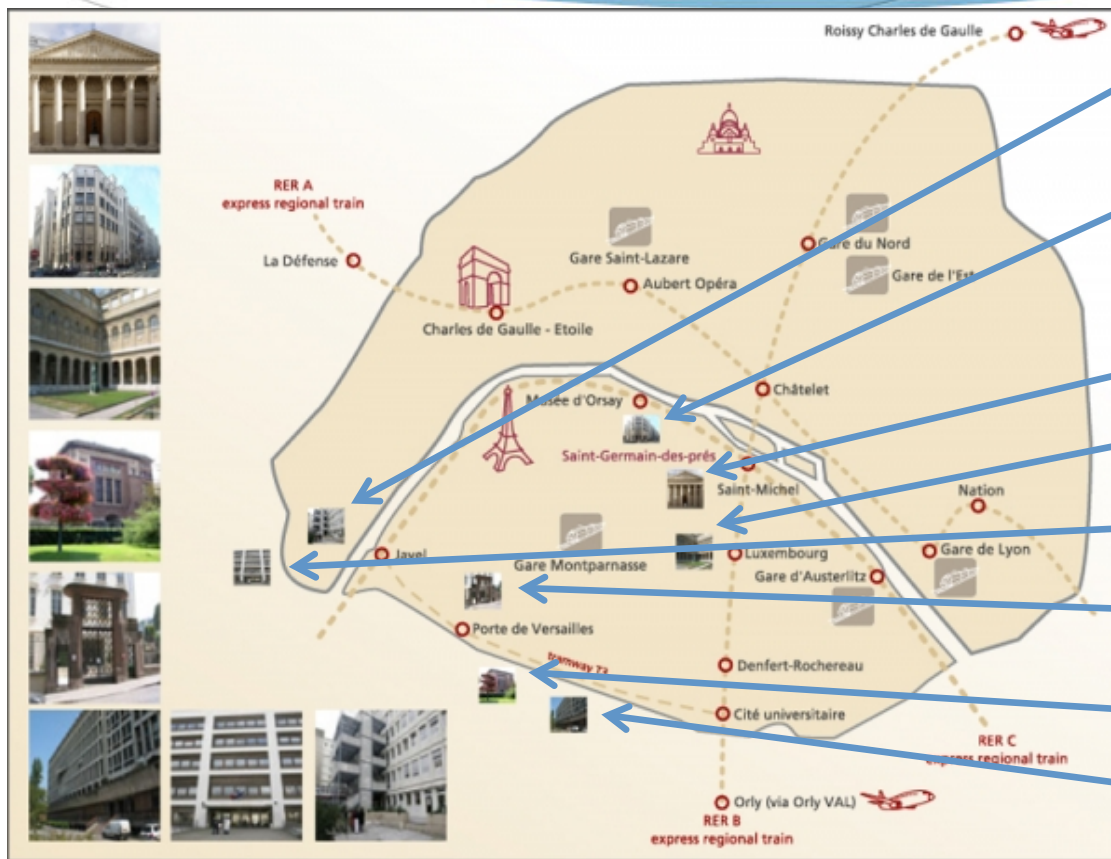
Paris Descartes University key figures



Credit : Paris Descartes University

- **Multidisciplinary university**
 - Spread over 9 colleges and 1 institute of technology
- **38,000 students**
 - 200 PhD granted each year
- **4,000 members**
 - Faculties, researchers, staff
- **1,300 researchers**
 - 82 research labs

Paris Descartes University locations



- Institute of Technology
- Biomedecine
- Maths & Computer Sci.
- Human & Social Sciences
- Headquarters + Medecine
- Pharmacy
- Psychology
- Sports
- Odontology
- Law – Economics

Credit : Paris Descartes University



Abstract

- ◆ This presentation investigates a Paris Descartes University initiative to develop BYOD program into the learning and teaching process.
- ◆ The idea behind this BYOD strategy is that students use their Wi-Fi connected personal devices to answer Moodle quizzes during lectures, allowing teachers to collect and display active feedbacks within minutes.

◆ Authors

- ◆ Thierry Koscielniak, Digital Pedagogy Executive Director
- ◆ Xavier Coumoul, Biomedical Sciences Professor
- ◆ Sonia Badeau-Mahmoud, Pedagogical Engineer



Description

- ◆ Paris Descartes University aims high to promote and integrate ICT in learning and teaching.
- ◆ We notice that the number of students' personal mobile devices increases in higher education context: this assumption confirms that these devices will be used to complement learning activities.
- ◆ One strategy is to implement BYOD (Bring Your Own Device) programs. BYOD refers to “[...] technology models where students brings a personally owned device to [university] for the purpose of learning.” (Alberta Education. (2012). Bring your own device: a guide for schools. Edmonton: Alberta Education.)
- ◆ Using BYOD is an innovative way to create and animate interactive lectures.
- ◆ This presentation will present uses at Paris Descartes University since 2012 and will show how BYOD can enhance and impact students' motivation.
- ◆ The LMS Moodle was not only used as a platform but also as an authoring tool to:
 - ◆ - create question banks;
 - ◆ - allow student to real-time respond to the questions;
 - ◆ - allow both teachers and students to see results live during the lecture.
- ◆ A « Moodle Remote Control » has been developed in our departement to ease the way the teachers toggle from their slideshow to quizzes results. The students will also soon get the same « virtual voting device ».
- ◆ Teachers and instructional designers (AKA pedagogical engineers) are thus able to design interactive and engaging lessons and projects, in a sole place and with the same tool.
- ◆ We are convinced that the devices that students embed in their daily life may change education: the experiments and their generalization show us that linking BYOD use in an instructional situation can improve student comprehension, learning and motivation.



The Lecture Revolution



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Needs and Actions

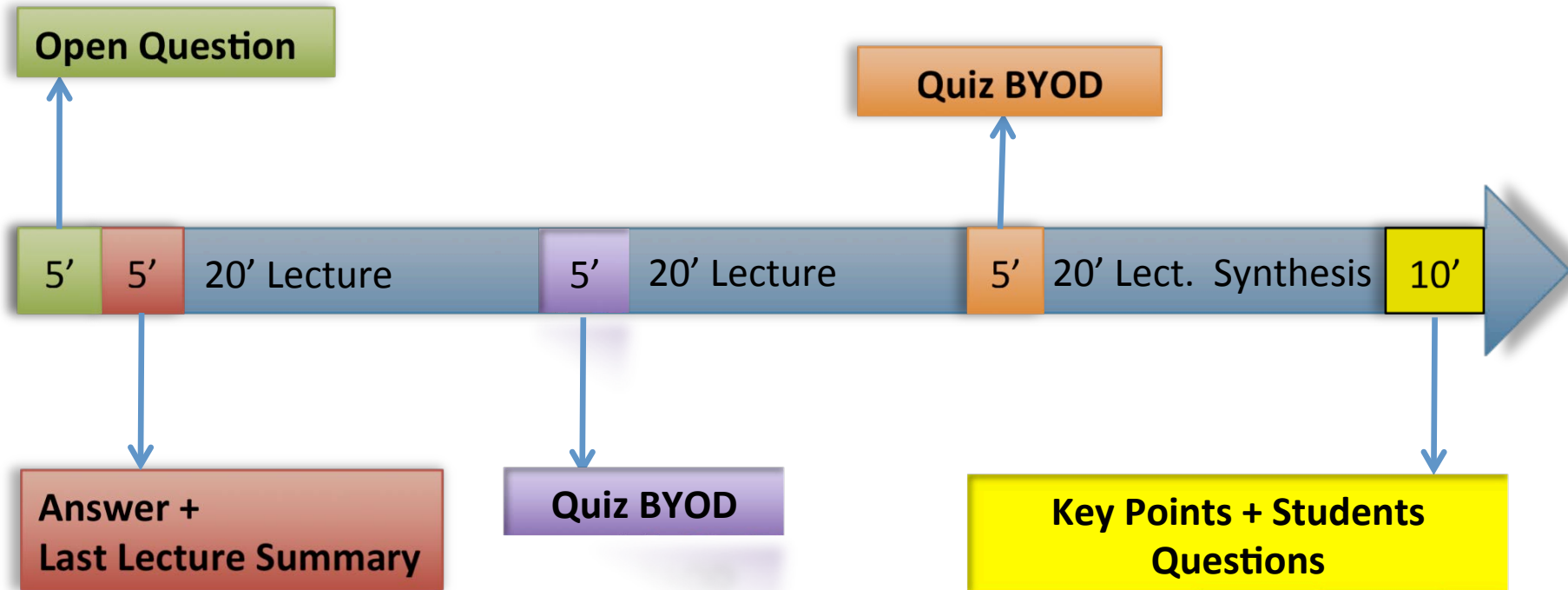
- Challenging the students at key moments to catch their attention
- The students are passive if they are only asked to answer with their hands up
- The students have to use their own digital devices to answer
- The teachers show the results interactively
- BYOD (Bring Your Own Device) + LMS Moodle: no need to use voting devices



Pedagogical Objectives

- to revive students' attention;
- to enhance students' motivation;
- to introduce an exchange within the traditional lecture;
- to compare his point of view with his peers;
- to manage "questions after debate";
- to give an immediate feedback to the students.

Interactives Lectures: Teacher's Questions




Credits: Prof. Xavier Coumoul - College of Biomedical Sciences

Moodle Screenshots


16 UE 6.25 Signalisation cellulaire

 [Supports de Cours](#)

 [sondage équipement mobile Wi-Fi](#)

 [Enquête sur le cours en anglais](#)

Les questions vont apparaître ci-dessous

 [Question 1](#)

 [Question 2](#)

 [Question 3](#)

 [Question 4](#)

 [Question 4 après débat](#)

 [Question 5](#)

 [Question 5 après débat](#)

Votre feedback :

 [Votre retour sur l'activité de questions interactives en TD](#)





Question 1

*1 Sélectionner la ou les réponses vraies (pour la condition NT)

- A. L'oxystérol augmente l'activité du promoteur tandis que la Dex n'a pas d'effet
- B. L'oxystérol et la Dex modifient l'activité du promoteur
- C. La Dex n'a pas d'effet sur l'activité du promoteur stimulée par l'oxystérol
- D. La Dex a un effet synergique sur l'activité du promoteur stimulée par l'oxystérol

[Envoyer le questionnaire](#)

1. Sélectionner la ou les réponses vraies (pour la condition NT)

Réponse	Moyenne	Total
A. L'oxystérol augmente l'activité du promoteur tandis que la Dex n'a pas d'effet	 20%	13
B. L'oxystérol et la Dex modifient l'activité du promoteur	 56%	37
C. La Dex n'a pas d'effet sur l'activité du promoteur stimulée par l'oxystérol	 14%	9
D. La Dex a un effet synergique sur l'activité du promoteur stimulée par l'oxystérol	 11%	7



Theater and Classroom



Credit : T Koscielniak



Credit : T Koscielniak

The Moodle Remote Control

Voir

Vos réponses : voir 1

Toutes les réponses (6)

Réglages avancés

Questions

Prévisualisation

Q1

URL pour BYOD : <http://moodle-admin-qualif.parisdescartes.fr/BYOD/?sectionid=2734>

*1

Parmi ces légumes, lesquels sont des fruits

- Pomme de terre
- Carotte
- Tomate
- Potiron
- Choux fleur
- Courgette

The Moodle Remote Control

Zapette

Questions en mode BYOD

6 participants

Question N°1

 Rendre visible

Question N°2

 Rendre visible

Question N°3

 Rendre visible

Question N°4

 Rendre visible

Question N°5

 Rendre visible

Zapette

Questions en mode BYOD

6 participants

Question N°1(6)

 Cacher  Réponses

Question N°2

 Rendre visible

Question N°3

 Rendre visible

Question N°4

 Rendre visible

Question N°5

 Rendre visible

Zapette

Questions en mode BYOD

6 participants

Question N°1(6)

 Cacher  Réponses

Question N°2(3)

 Cacher  Réponses

Question N°3(2)

 Cacher  Réponses

Question N°4(3)

 Cacher  Réponses

Question N°5(0)

 Cacher  Réponses

Credit : Service Pédagogie numérique – Digital Pedagogy – Paris Descartes University

The Moodle Remote Control

Zapette

Questions en mode BYOD

6 participants

Question N°1

Réponses reçues : 6

Parmi ces légumes, lesquels sont des fruits

	Réponses	%
Pomme de terre	0	0%
Carotte	0	0%
Tomate	6	100%
Potiron	4	66.7%
Choux fleur	0	0%
Courgette	4	66.7%

[retour](#)

A new development:
the student's remote
control
A virtual voting device



BYOD is widespreading

- 💧 BYOD for increasing motivation and attention
 - College of Biomedical Sciences
 - College of Medicine
 - College of Law
 - College of Pharmacy
 - College of Mathematical Engineering
 - College of Humanities



A team work

- Xavier Coumoul Professor in Biomedical Sciences
- Sonia Badeau-Mahmoud
- Ludivine Alvarez
- Antoinette Bouziane
- Jennifer Carmichael
- Marion Harent
- Frédéric Romero: Pedagogical Engineers
- Bruno Bouret
- Yann Sallou Moodle Remote Control Developpers

The pedagogical team



Teaching with digital tools is like making a movie: you need a strong technical team.

http://upload.wikimedia.org/wikipedia/commons/a/a9/Television_crew_shooting_a_movie_during_turtle_nest_excavation_and_relocation.jpg
Par Maxfield Barbara, U.S. Fish and Wildlife Service [Public domain], via Wikimedia Commons



Let's keep in touch

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[@tkoscielniak](#)

Profile at Paris Descartes Academic Social Network (French):

<http://carnets.parisdescartes.fr/koscieln>

Profile at EDUCAUSE (English):

<http://www.educause.edu/members/thierry-koscielniak>