



El futur de l'educació i l'educació en línia

*Dr. Albert Sangrà
Director eLearn Center
Universitat Oberta de Catalunya*

2012

HIGHER EDUCATION

The year of the MOOC

These 'massive' online courses have been around for a while, but this year, more elite universities want in

BOSTON (MASSACHUSETTS) – In late September, as workers applied joint compound to new office walls, hoodie-

HIGHER EDUCATION

The year of the MOOC

discussing
and being
concerned
about

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2013

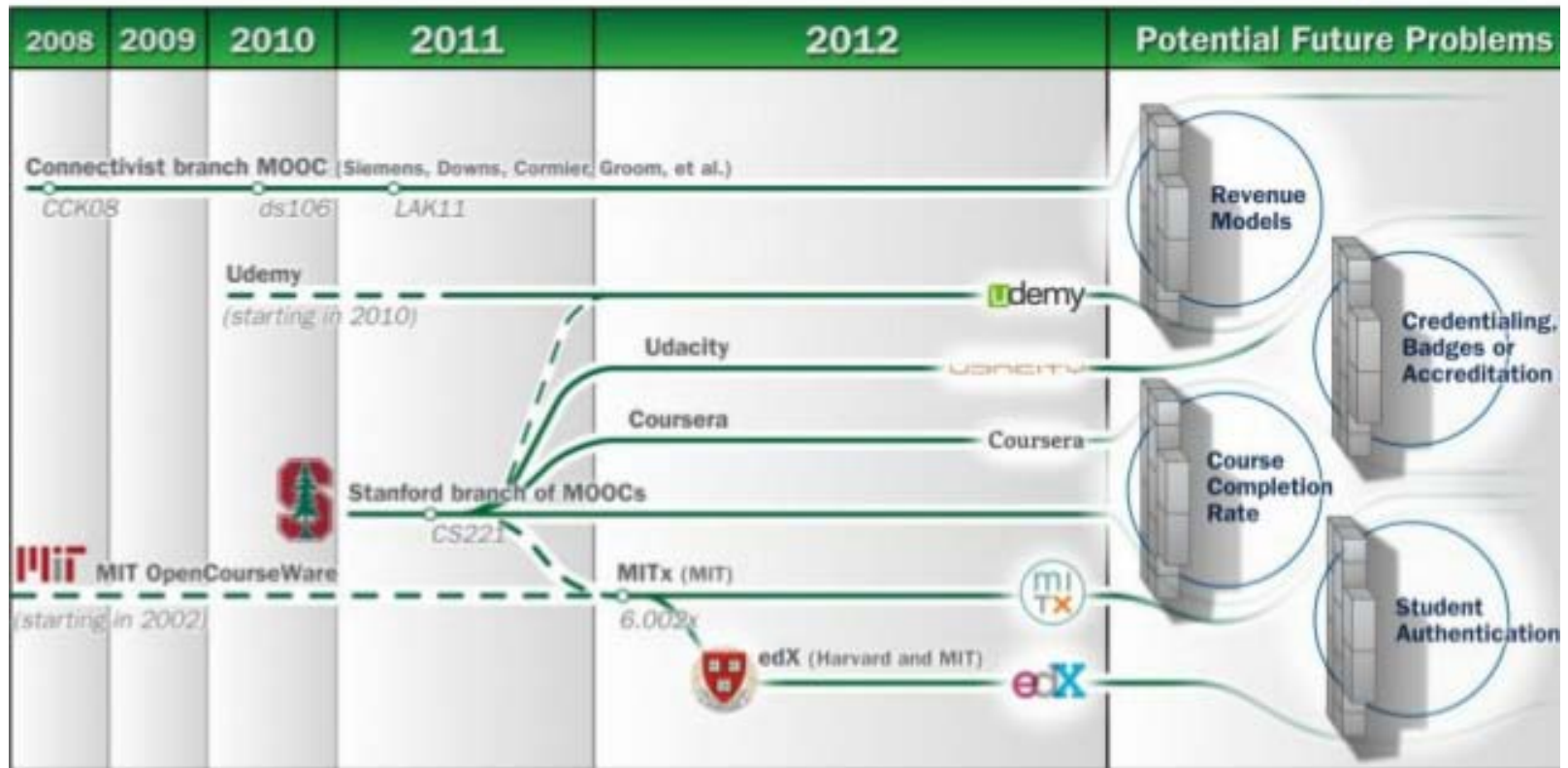
BOSTON (MASSACHUSETTS) – In late September, as workers applied joint compound to new office walls, hoodie-





D'on venim

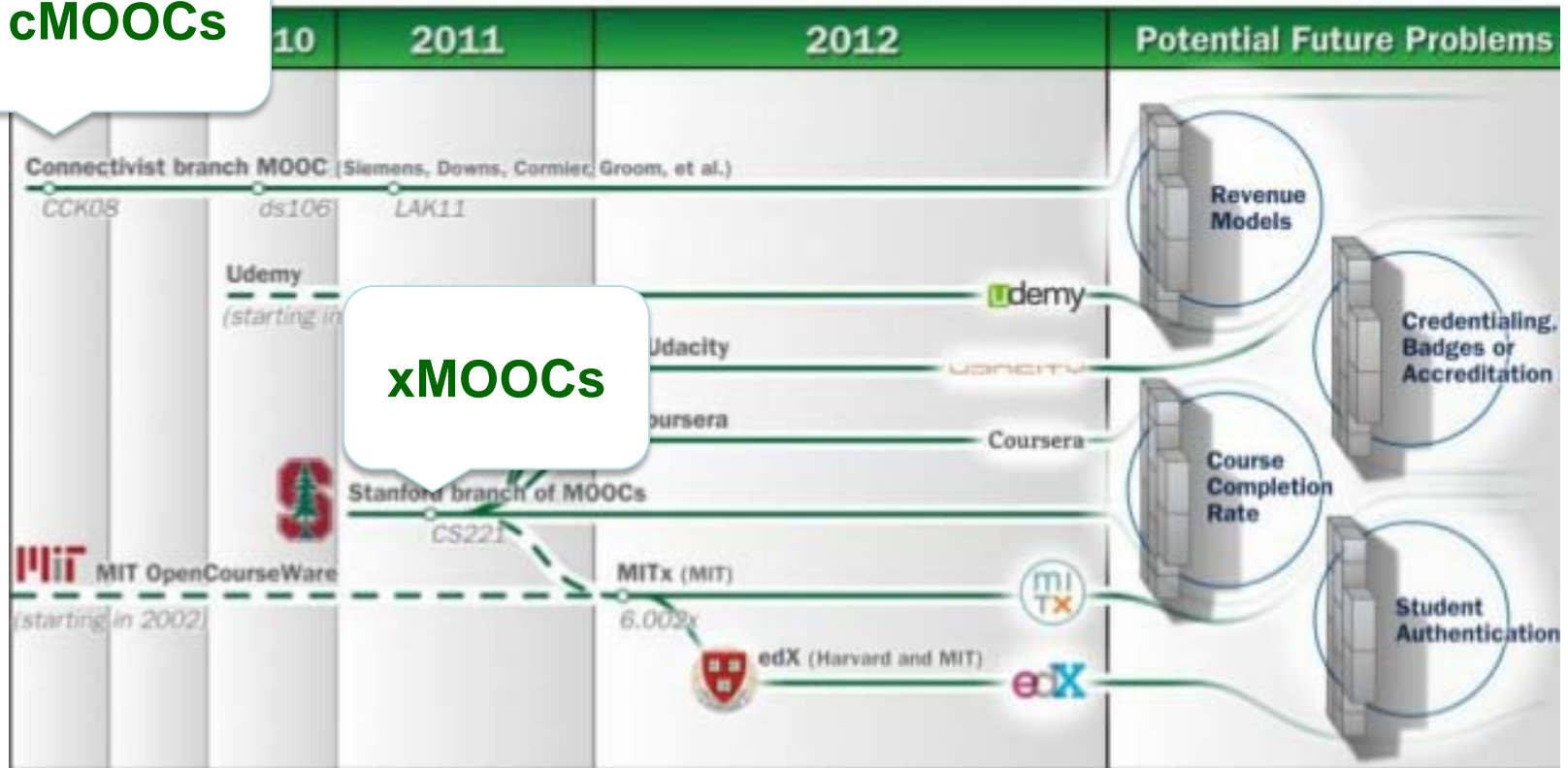
MOOC Timeline



MOOC Timeline

cMOOCs

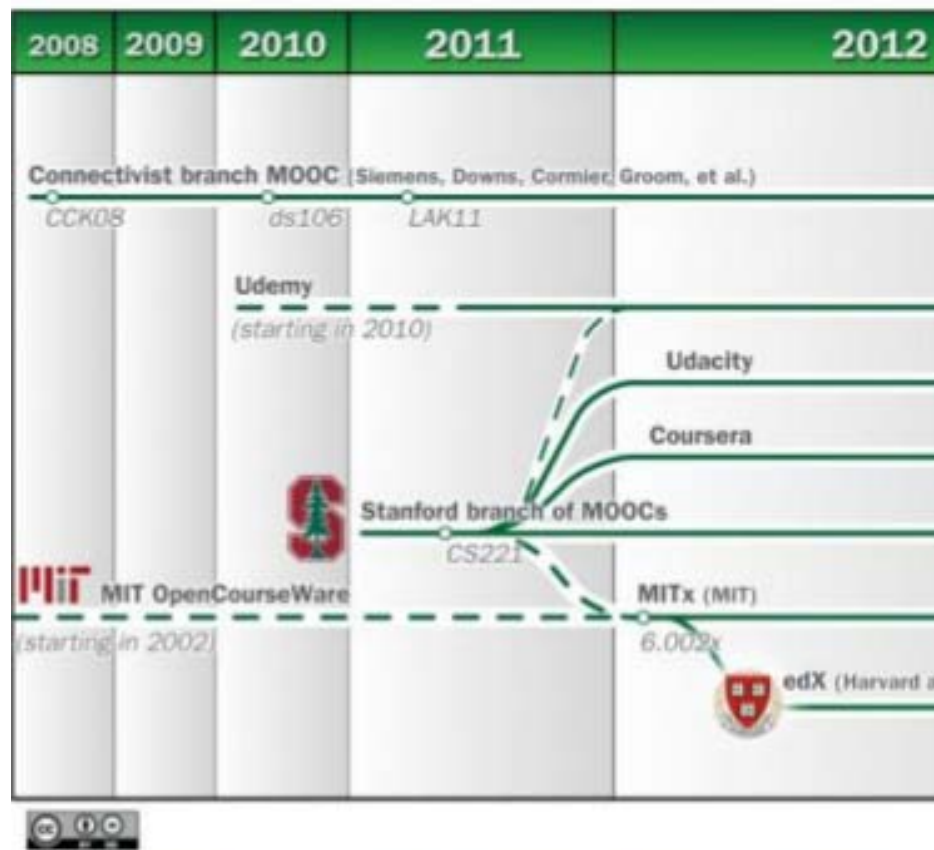
xMOOCs



Independent study
(Princeton, 1923)

Industrialització de
l'educació (Peters, 1960)

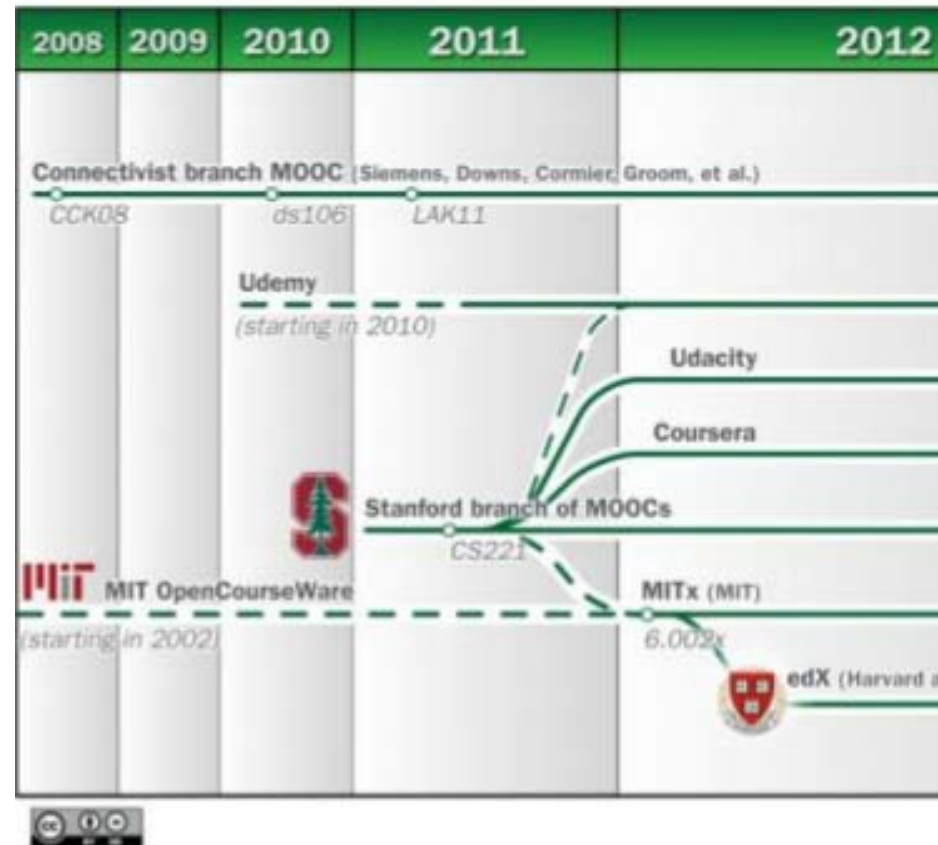
MOOC Timeline



- NYU Online (USD, 20 M)
- Fathom (USD, 40 M)
- eUniversity, UK (£ 60 M)

Ruth, S.R. “eLearning: A Financial and Strategic Perspective” *Educause Quarterly*, 1, 2006

MOOC Timeline



MOOCs Today

Udacity, Coursera, and Edx are now offering hundreds of MOOCs to millions of people.

Coursera

FUNDING
\$22 Million

COURSES
210

PARTICIPATING SCHOOLS
37

CERTIFICATION
Yes, signed by instructor,
University name
not included

UDACITY

FUNDING
\$15 Million

COURSES
15

PARTICIPATING SCHOOLS
0

CERTIFICATION
Yes, based on placement
after testing

edX

FUNDING
\$60 Million

COURSES
9

PARTICIPATING SCHOOLS
6

CERTIFICATION
Yes, edX and University
name included

+ MiríadaX

Pros i contres

Pros i contres dels MOOCs

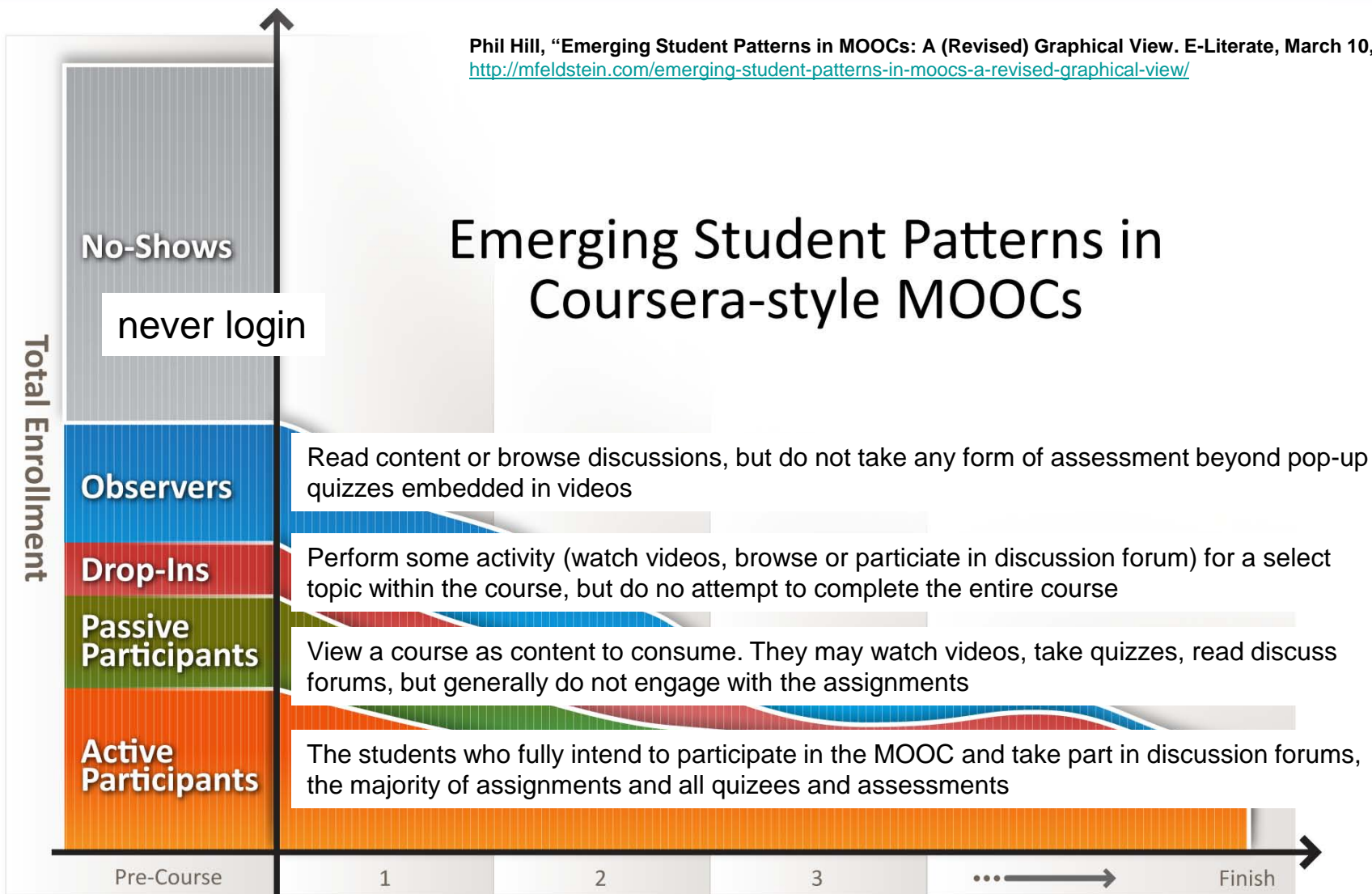
- Valorar-los des de diferents punts de vista:
 - Estudiants
 - Professorat
 - Universitat
 - Aprenentatge

Perspectiva dels estudiants

- Pros
 - Alt perfil, exposició a empleadors, aprendre dels experts
 - Accedir a contingut als que no podrien d'altra manera
 - Estudiants potencials que coneixen la universitat
 - Gratuïts
- Cons
 - Menys contacte amb el professor, menys interacció, alta taxa de fracàs
 - Molts estudiants necessiten suport expert

Phil Hill, "Emerging Student Patterns in MOOCs: A (Revised) Graphical View. E-Literate, March 10, 2013
<http://mfeldstein.com/emerging-student-patterns-in-moocs-a-revised-graphical-view/>

Emerging Student Patterns in Coursera-style MOOCs



Perspectiva dels professors

- Pros
 - Exposició de la seva tasca de recerca y docència a la universitat
 - Ús com a recurs docent (wrapping)
 - Reputació, millora del curs i feedback dels estudiants
- Cons
 - Qualitat, taxa d'abandonament (>80%)
 - Temps de dedicació
 - Propietat intel·lectual, costos, retorn

Perspectiva de la universitat

- Pros
 - Màrqueting i publicitat per al universitat
 - Projecció i visibilitat internacional
 - Promoció de la innovació docent ([?](#))
- Cons
 - No generen retorn de la inversió directament
 - Reclamen inversió (temps dels docents, recursos)
 - Acreditació, compleció, avaluació
 - Pressió dels “lobbies” corporatius

Perspectiva de l'aprenentatge

- Pros
 - Promou la innovació i l'anàlisi crítica de la tasca docent
 - Potencialment, es disposarà de moltes dades sobre com s'aprèn
- Cons
 - Han de ser alguna cosa més que vídeos i “quizzes”: cal un millor disseny per l'aprenentatge
 - [“The dark side of MOOCs”](#)
 - Manca d'evidències d'aprenentatge real

Una primera anàlisi

- Estudi preliminar basat en els comentaris de participants en alguns dels MOOCs més populars relacionats amb la tecnologia i l'educació (#edcmooc, #etmooc, #foemooc, #oldsmooc, #CCK12).
- Es van analitzar 82 posts que disposaven de: reflexió profunda, crítica fonamentada i propostes de milora relevants.
- Categories: contingut/recursos, interacció, organització, avaluació, acreditació i tecnologia.

Principis per al disseny de MOOCs

1. Enfocament de disseny basat en competències
2. Empoderament de l'estudiant
3. Pla d'aprenentatge i orientacions clares
4. Aprenentatge col·laboratiu
5. Social networking
6. Suport entre iguals
7. Criteris de qualitat per a la generació i creació de coneixement
8. Grups d'interès
9. Avaluació i feedback dels companys
10. Media-technology-enhanced-learning

(Guàrdia, Maina & Sangrà, 2013)

MOOC Design Principles

MOOC could and should be much more than a traditional course delivered online. Learning design innovation is needed for a real change.

By Guàrdia, L. & Maina, M. & Sangrà, A.

Pedagogical approach

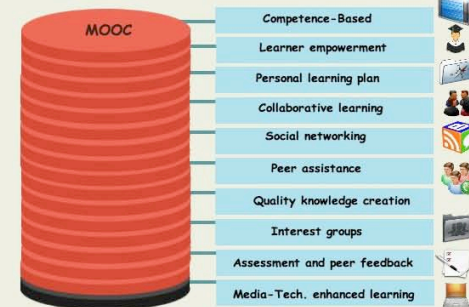
The debate around Massive Open Online Courses (MOOCs) is much more focused in the social, institutional, technological and economical aspects than in the need for development of new pedagogical approaches that provide consistent guidance on how to design for this emergent educational scenario.

MOOC

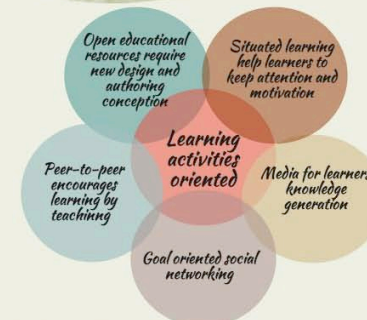
Learners' perspective

New Pedagogy

Design Principles



Reflections





To say that MOOCs will fade away because they're of poor quality or bad pedagogy is like saying that McDonalds will go away because the food is unhealthy and the chairs are too hard... **Convenience and price will win, regardless of quality.**

Lisa Lane

Què està passant

New users: Please register at the new P2PU website!



Learning for everyone, by everyone, about almost anything Login

feedback

You've found the old P2PU site. Please visit us at new.p2pu.org!

Take a course



Start Learning, view our Open Courses List.

Organize a course



Organize a new course or run an older one.

Suggest a course



Suggest and vote on future course ideas.

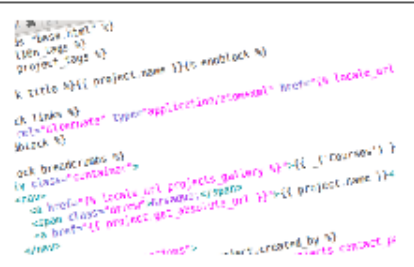
Visit new.p2pu.org to see current courses
Here's a selection of courses which have run on this platform in the past.
Browse new learning projects, study groups and courses at http://new.p2pu.org!

What's going on in the P2PU community
Community feedback
how are development priorities decided? Sunday, May 29, 2011 - 02:36
How can I delete updates? Saturday, May 28, 2011 - 14:19
What is a study group? Saturday, May 28, 2011 - 06:19
having problems login in with your google openid url? Friday, May 27, 2011 - 23:16
How do I switch between following and participating in a course? Wednesday, May

Browse

www.p2pu.org


Featured



Introduction to Contributing to Lernanta

How to contribute to Lernanta, the

250
Updates
47
Participants
53
Followers



DIY U: Getting Started With Self Learning

Create and share your personal

256
Updates
55
Participants
69
Followers



#2 Writing HTML by Hand

Learn to write HTML by hand, literally.

218
Updates
124
Participants
0
Followers



EduToolkit

Teachers Open Online Learning for Professional Development

40
Updates
5
Participants
4
Followers



UNIVERSITY OF THE PEOPLE Tuition-Free Online University

www.uopeople.org

December / 15 / 2011

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PROCESSING FEES

THE METHOD

OUR STUDENTS

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OER university (#oeru)

Towards free learning opportunities for all students worldwide

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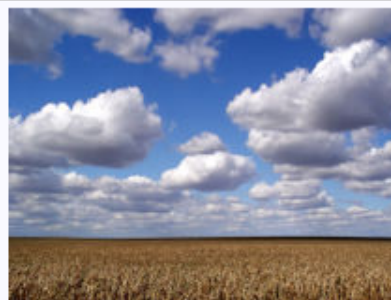


 5 Things you should know about the OER university network plan

Who we are

edit

The OER university is a virtual collaboration of like-minded institutions committed to creating flexible pathways for OER learners to gain formal academic credit.



The OER university aims to provide free learning to all students worldwide using OER learning materials with pathways to gain credible qualifications from recognised education institutions. It is rooted in the community service and outreach mission to develop a parallel learning universe to augment and add value to traditional delivery systems in post-secondary education. Through the community service mission of participating institutions we will open pathways for OER learners to earn formal academic credit and pay reduced fees for assessment and credit.

[Inaugural meeting](#) | [Contact](#)

What we do

edit

News

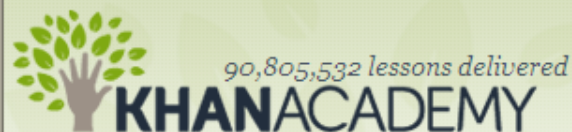
edit



The founding anchor partners of the OER university concept will have a face-to-face meeting in Dunedin, New Zealand on November 9th and 10th. This gathering will make concrete steps toward the first credential to be offered by the network. Thanks to generous support from UNESCO, a live webcast stream will be available. [Register today](#) to join as virtual participant.



SUNY Empire State College leads the way as the first founding anchor partner of the OER university in the United States. "By joining OERu, Empire State College will join the global community of learners who contribute to and benefit from open educational resources." said Alan Davis, President of SUNY Empire State College. [Read more ...](#)



Introduction to Programs Data Types and Variables

edit Run Tools Help



3+7))

"this is a chunk of text"))



estores.py x

Python Interpreter

New & Noteworthy

www.khanacademy.org

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PROYECTO OPORTUNIDAD

Un enfoque emergente en Latinoamérica y Europa para el desarrollo de un Entorno Común de Educación Superior, a partir de las Prácticas Educativas Abiertas

Inicio

Visión General

“ ¿Cómo la apertura al público de los recursos educativos puede aportar nuevas posibilidades de aprendizaje a los estudiantes tanto en el campus universitario como más allá de las paredes de las instituciones? ”

El proyecto OportUnidad explora la adopción de estrategias y canales que abrazan los principios de apertura y reutilización en el contexto de las instituciones educativas

Buscar...

NEWSLETTER

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English ▾

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your@email.com

Name :



http://oportunidadproject.eu/es/



ARE
MOODCS
THE FUTURE
OF EDUCATION?

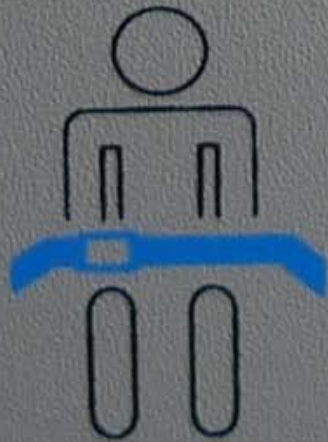
Tres grans motius, però amb molts interrogants...

**ABAIXAR
COSTOS**

**MILLORAR
APRENTATGE**

**AMPLIAR
OPORTUNITATS**





LIFE VEST UNDER YOUR SEAT
FASTEN SEAT BELT WHILE SEATED

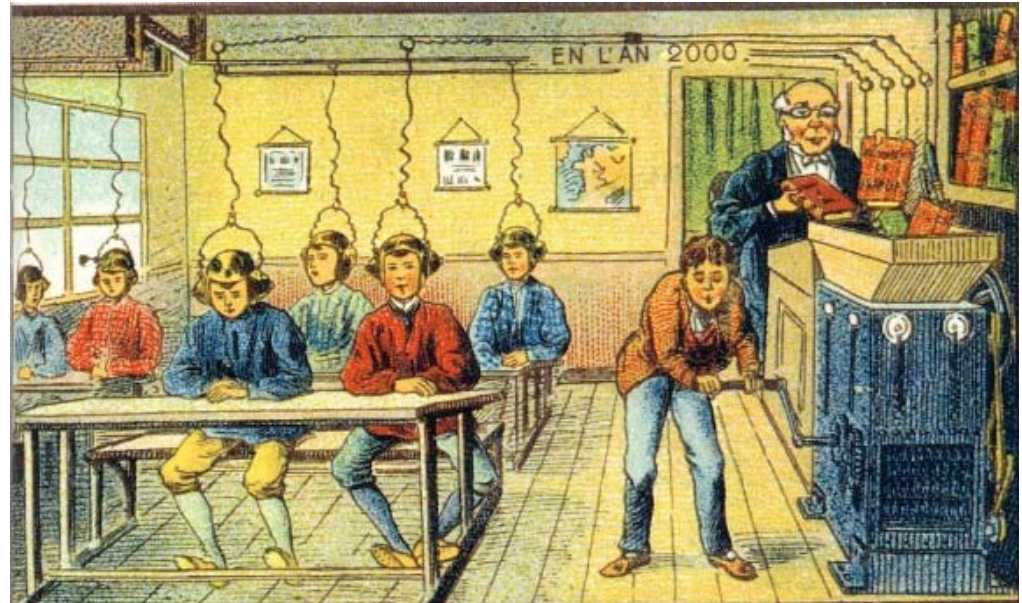


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aprenentatge

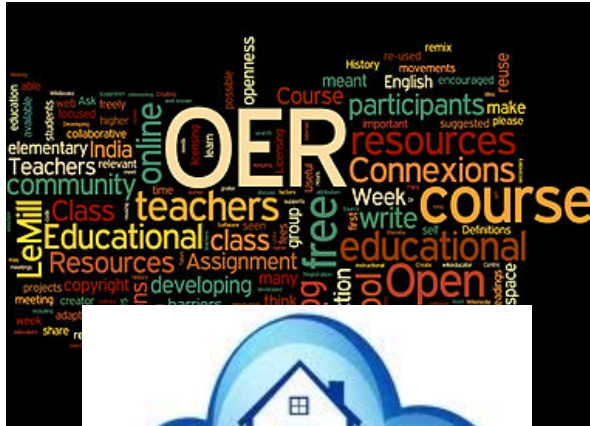
APRENTATGE REAL



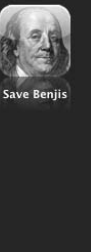
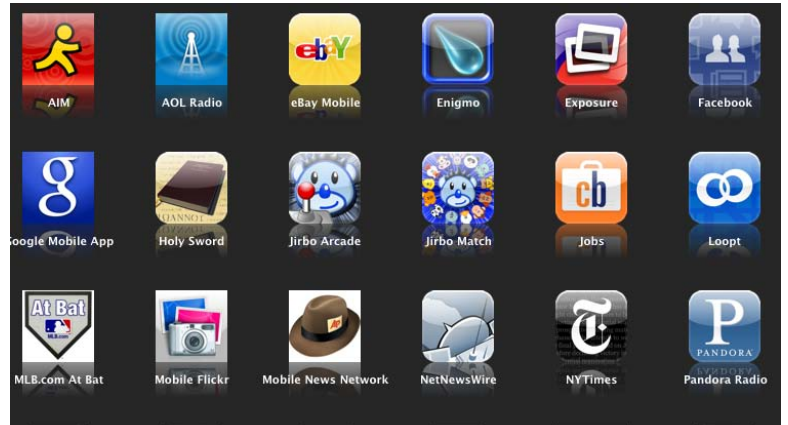
Cap a on anem?







MOOCs
*Massive
 Open
 Online
 Courses*



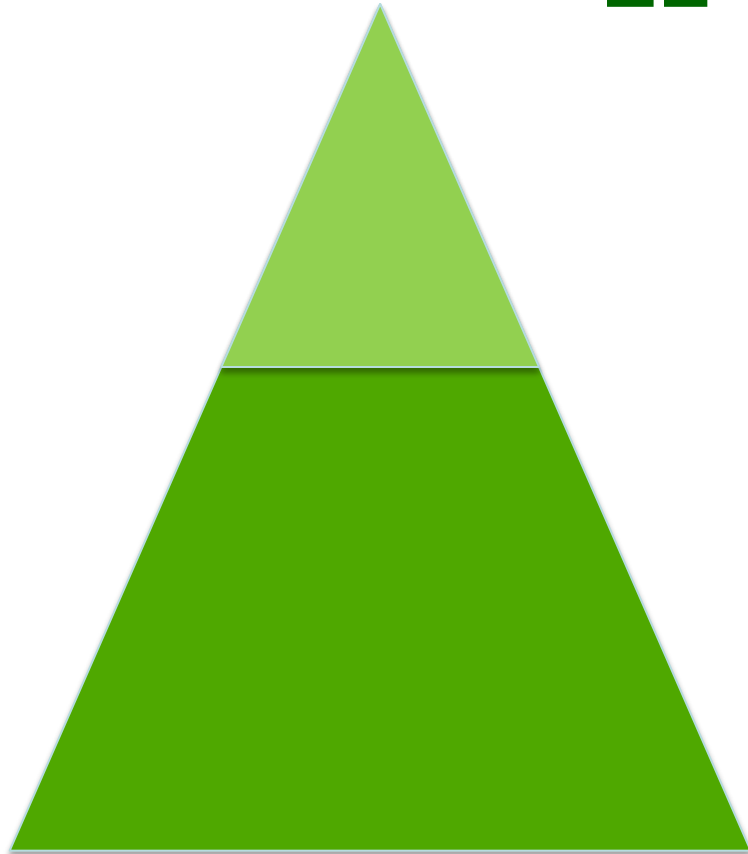
Ecologies de l'aprenentatge




The collage illustrates various learning environments and digital tools. It features:

- A traditional classroom with a teacher at the front and students at desks.
- A historical classroom with students in period clothing.
- A white mug of coffee.
- A library with bookshelves and a person reading.
- A person lying on the floor reading a book.
- A group of people playing soccer on a grassy field.
- A grid of social media and educational icons, including YouTube, Facebook, Twitter, and various educational platforms.
- A word cloud centered around "OER" (Open Educational Resources) with other terms like "Educational Resources", "class", "Assignment", "Open", "write", "page", "use", "developing", "school", "page", "use", "write", "class", "Assignment", "Open", "write", "page", "use", "developing", "school", "page", "use".
- A blue box with the text "MOOCs" in red, followed by "Massive Open Online Courses" in red.
- Various social media icons including YouTube, Flickr, Facebook, MyBlogLog, and others.
- A blue cloud icon with a house symbol and the text "PLE" (Personal Learning Environment).
- A collection of logos for various educational and social media platforms.

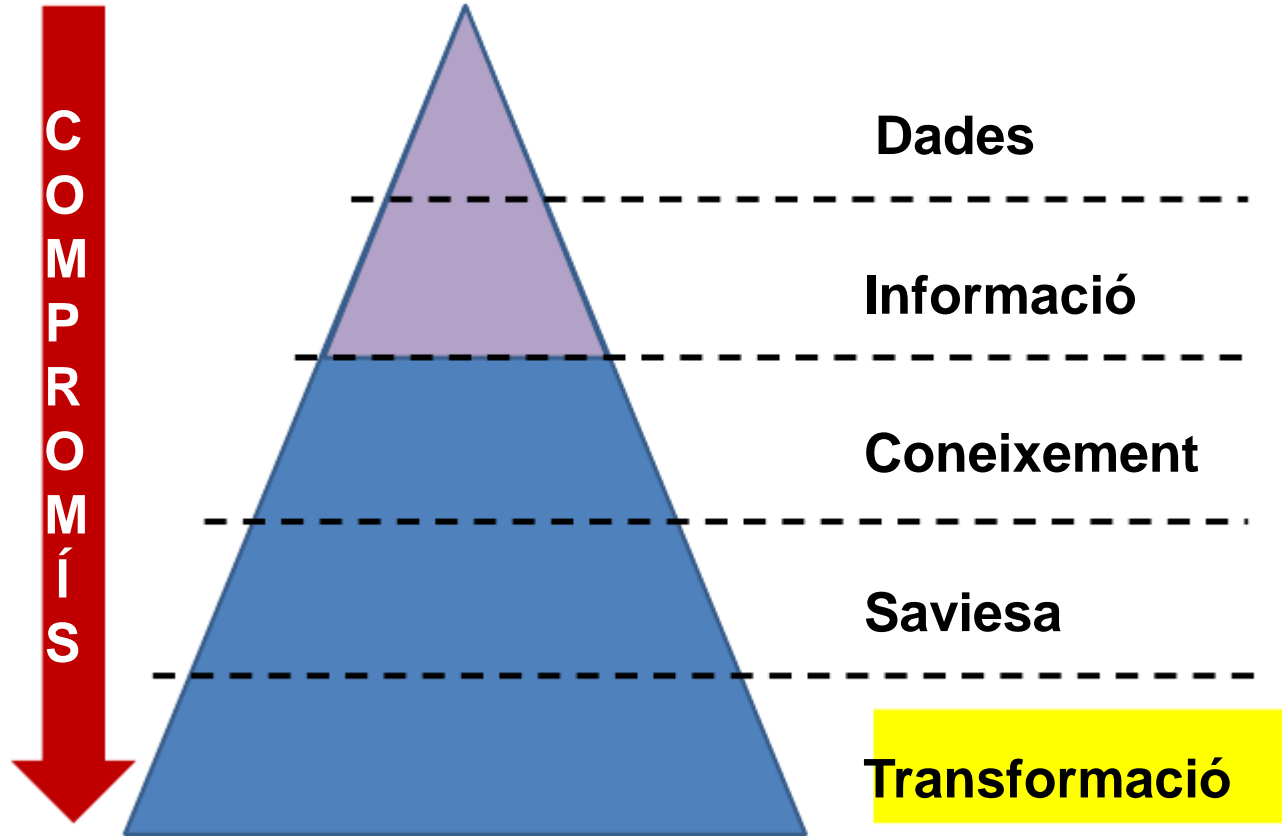
EL VERITABLE REPTE



Aprenentatge superficial

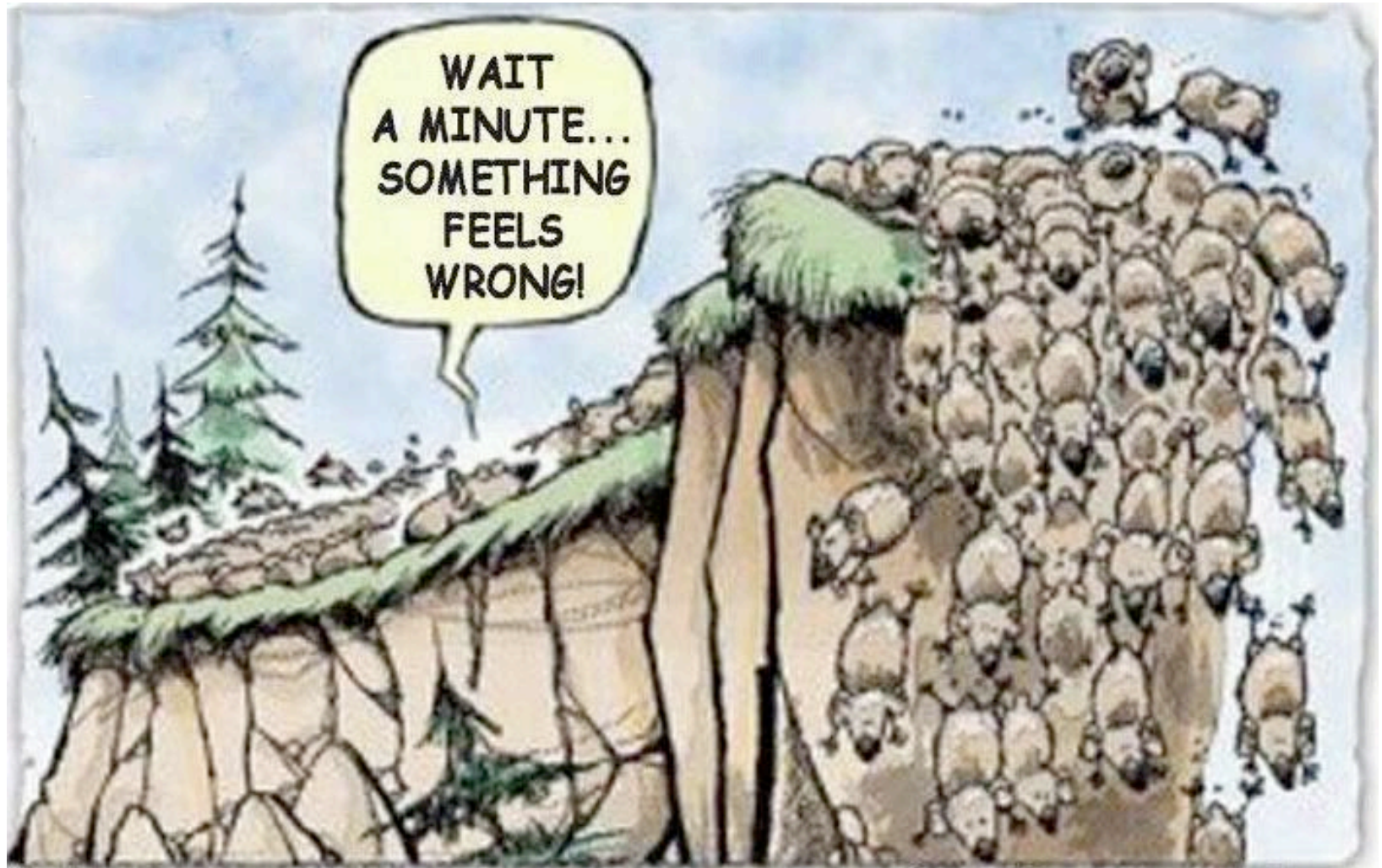
Aprenentatge profund

El veritable repte



En síntesi

- No són un miratge. Es quedaran
- Han estat sobredimensionats
- Més aviat hauríem de parlar de recurs
- Punts febles actuals:
 - Evidències d'aprenentatge real: avaluacions significatives
 - Model de negoci sostenible: negoci per a qui?
 - Com garantir la qualitat, no només tecnològica ni de contingut, sinó d'aprenentatge
- Cal fer bona recerca:
 - Hi ha interessos massa grans per a fer anàlisis equilibrats
 - Cal no donar les coses per descomptades



**"Shut up, you moron! Do as you've been told
It's for your own good!"**

Reptes per al SUC

Reptes per a les universitats catalanes

- Estem en la mateixa situació que als Estats Units?
- Tenim capacitat per a imitar-los i competir amb ells?
Ens cal competir?
- Quantes persones escolliran entre un MOOC del sistema català i un del MIT, Stanford o Harvard si el cost és el mateix?
- Quin serà l'element diferenciador de qualitat?
- Qui finançarà els MOOCs de les universitats catalanes?

Reptes per a les universitats catalanes

- Quina és la funció que els MOOCs poden jugar en el sistema universitari català?
 - Captació (Teaser)
 - Anivellament (Remedial)
 - Projecció/visibilitat → Internacionalització?
 - Recurs
- Integrats en la docència presencial regular?
- Integrats en la docència en línia?
- Substituint matèries presencials?
- Formació professionalitzadora continuada?

Reptes per a les universitats catalanes

- Aprofundir en la recerca
 - L'exploració de les dades
 - L'anàlisi més profunda sobre com s'aprèn en aquests contextos des d'una perspectiva no vinculada a interessos comercials
 - No només quantitativa
- Desenvolupar tot el potencial de les ecologies de l'aprenentatge, no només dels MOOCs



Source: <http://www.greentuan.com/green-tree/>

Gràcies

asangra@uoc.edu

<http://edulab.uoc.edu/>

twitter:

albert_sangra

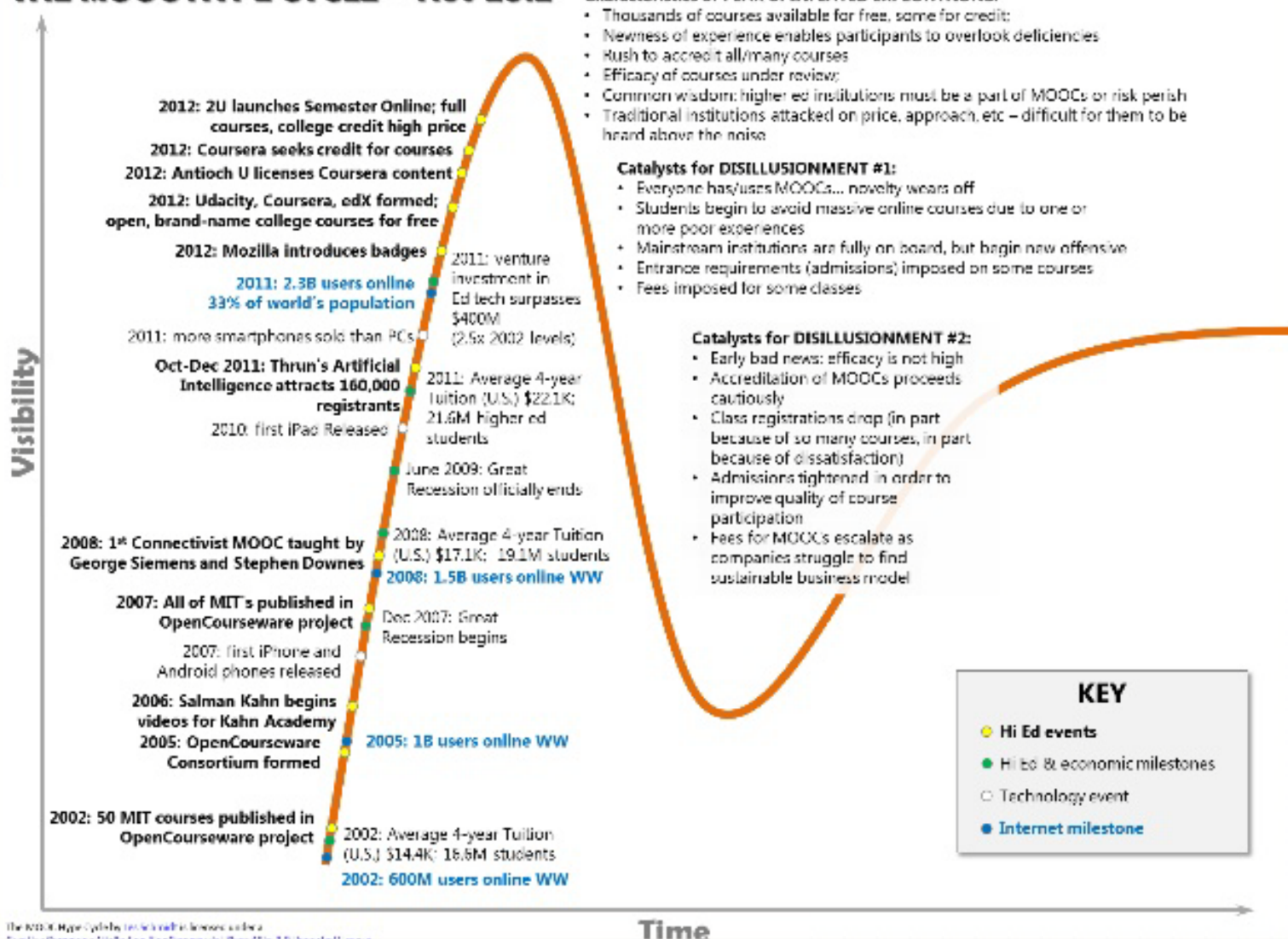
Blog El País: Traspasando la línea

<http://blogs.elpais.com/traspasando-la-linea>

Perspectiva dels estudiants

- **No es pot basar tot en el peer-review:** *“compartim informació errònia i altres problemes derivats del peer-coaching”*
- **Disseny pobre dels cursos:** *“From day one I had no idea what I was supposed to do. There were instructions all over the place. Groups join with phantom members that never commented or interacted, and a syllabus that was being revised as the course went through it’s first week.”*
- **Manca de personalització:** *“Because MOOC are so big, you often don’t get feedback from the professor. Instead you get it from algorithms and peers.”*
- **Costos “amagats”:** *“Sometimes you discover that free MOOCs aren’t exactly free.”*

THE MOOC HYPE CYCLE – Nov 2012





“I don’t think this is revolutionary from an educational perspective; I think it is from a business perspective.”

Dave Cormier