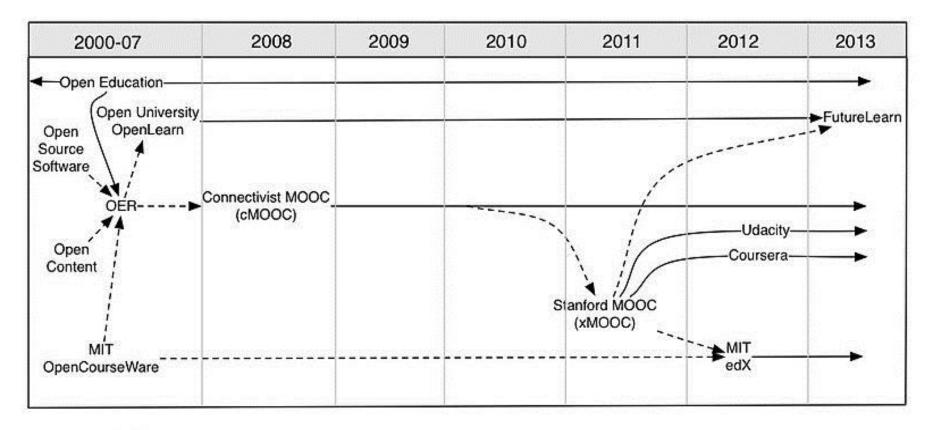


MASSIVE OPEN ONLINE COURSES
AS DISRUPTIVE INNOVATION:
POSSIBILITY TO HELP EDUCATIONAL
CHALLENGES IN CURRENT TIMES?

MOOC: history in a chart



----➤ An influence

Directly related

Source: Yuan and Powel (2013)

Disruptive innovation theory

Christensen (2003) defined two types of innovation:

- Sustaining improving the existing system
- □ Disruptive creates an entirely new market

MOOC: facts worth mentioning

- cMOOC ('c' = connectivist; blogs, learning communities, social media, etc.)
- represent nature of MOOCs involve groups of people learning together, promote interaction
- all participants are considered teachers and learners
- xMOOC (edX, Coursera, and Udacity provide xMOOCs)
- S. Downes (co-founder of one of the first MOOCs)
 significantly broaden the number of students who can be exposed to university-level courses
 - critics argue that xMOOCs are inferior to the university courses because they eliminate teacher-student interactions and involve limited student-student interactions

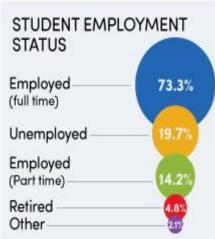
MOOC: facts worth mentioning

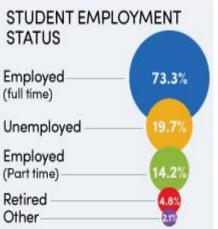
Table: Atributes of major MOOC providers

Initiatives	For profit	Free to access	Certification fee	Institutional credits
EdX	No	Yes	Yes	No
Coursera	Yes	Yes	Yes	Partial
Udacity	Yes	No	Yes	Partial
Udemy	Yes	Partial	Yes	Partial
P2PU	No	Yes	No	No

Source: Yuan and Powel, 2013

MOOC: Statistics (Coursera, 2013)





Top 10 countries by user base

- United States, 31.7%
- 2. India, 8.4%
- 3. United Kingdom, 4.3%
- 4. Brazil, 3.8%
- 5. Canada, 3.5%
- 6. Spain, 3.1%
- 7. China, 2.9%
- 8. Mexico, 2.2%
- 9. Australia, 2.0%
- 10. Russia, 2.0%

(By percentage of the user base)



Countries with university partner

Australia Canada China Denmark France Germany Israel Italy lapan Mexico

Netherlands Russia Singapore South Korea Spain Switzerland Taiwan Turkey United Kingdom United States

TOTAL COURSE **ENROLLMENTS**



19.1 Million

BREAKDOWN OF COURSES

Top 5 most popular course subjects

1. Computer Science	9,428,982
2. Humanities	3,861,497
3. Business & Management	3,578,064
4. Economics & Finance	3,302,253
5. Information, Tech & Design	2,399,790
45 · · · · · · · · · · · · ·	

(By total number of enrollees)



NUMBER OF QUIZZES SUBMITTED

27,354,590

MOOC: drivers and trends

- Globalisation in higher education (HE);
- Worldwide growth and increasing demand for access to HE;
- Emergence of the learning sciences and their application to educational practice;
- Movement toward competency-based education;
- Changing learner demographics, experience and demands of the rapidly increasing numbers of lifelong learners;
- Highly increased access to personal technology and social media;
- The need for changes in costs, affordability and economic models for higher education;
- New business models that effectively combine instructional quality,
 lower cost, and increased access through unlimited scalability.

MOOC: challenges and barriers

- Excellent signup rates, but very low completion rates;
- High possibility to cheat;
- Inaccessibility in developing countries, due to the lack of infrastructure;
- Lack time to study, due to various reasons (work, family, leisure);
- Lack of faculty support, lack of face-to-face interaction with teachers and other students, and lack of access to laboratories, research facilities and other resources.
- Lack of advanced study skills, digital literacy and a high level of self-discipline.

MOOC: confusing or exciting times?

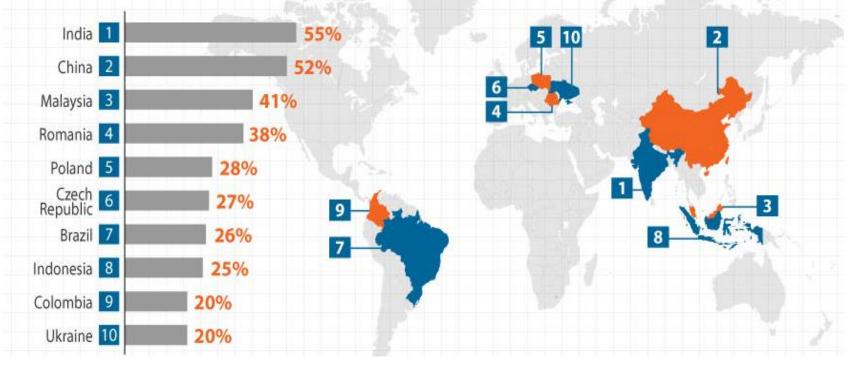
- Mission: what role can MOOCs play in communicating knowledge and expertise, and raising the profile of your institution and its departments around the world?
- Innovation: what role can online models of delivery play in improving the quality and value of online and traditional courses for students, employers and society?
- Sustainability: what are the costs of developing and running MOOCs and what are the wider implications of a shift towards free course content for existing business and pedagogical models?
- Pedagogy: how can an institution add value to the educational experience of students beyond the standard MOOC platform experience, and facilitate access to a variety of social and professional networks?



Top 10 Growth Rates By Country

Growth rate shows how each country adopts eLearning and is a significant indicator since it can reveal revenue opportunities.

The growth rate of self-paced eLearning by country is:(3)



Potential impact on education structures

- with the expansion of xMOOC platforms connected to different university networks
 - ✓ like Coursera, Udacity, edX, or European Futurelearn a central question is:

What is their role in the education system?

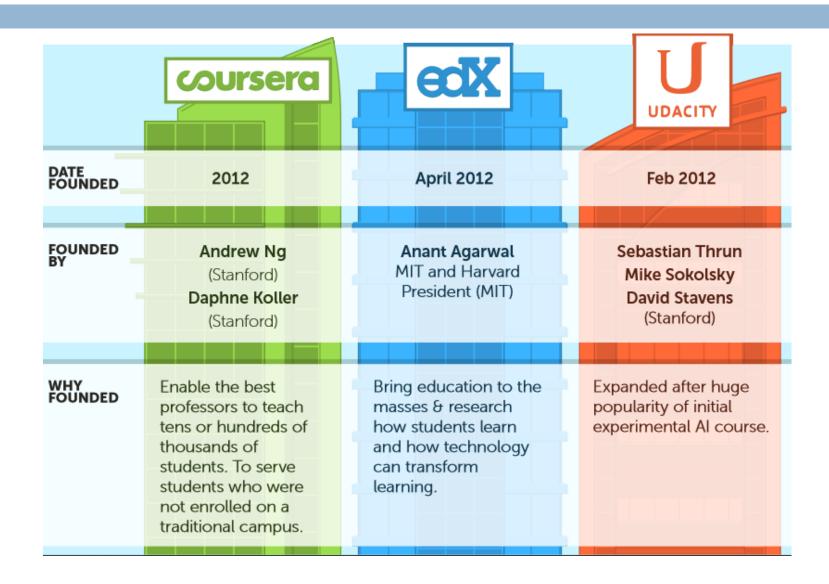
field of HE will see massive and constant change in the near future, and MOOCs will continue to play a major role in its rapid evolution

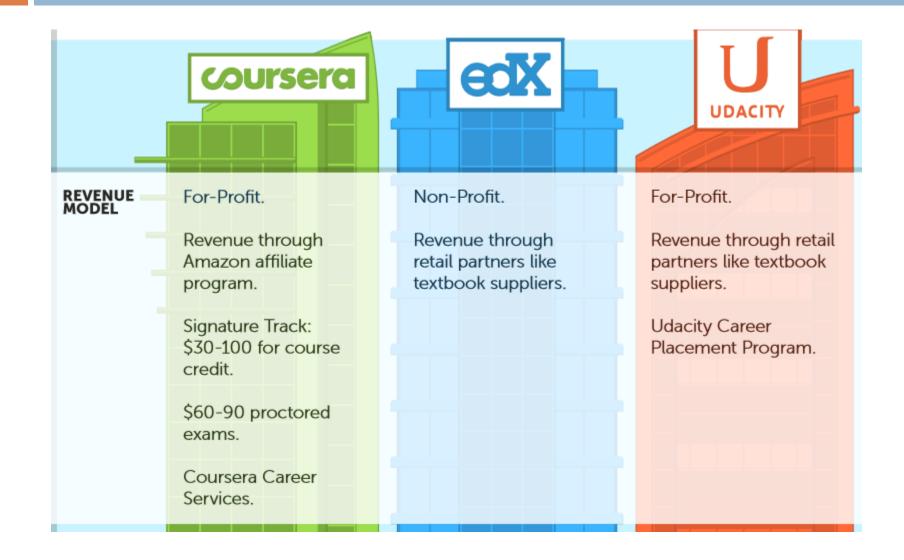
How will WE play a part in the revolution of learning?

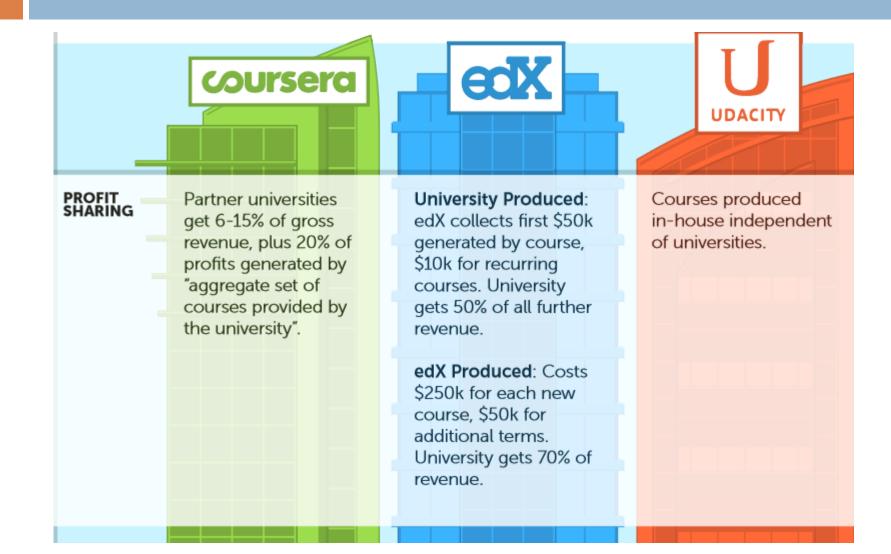
MOOC and beyond

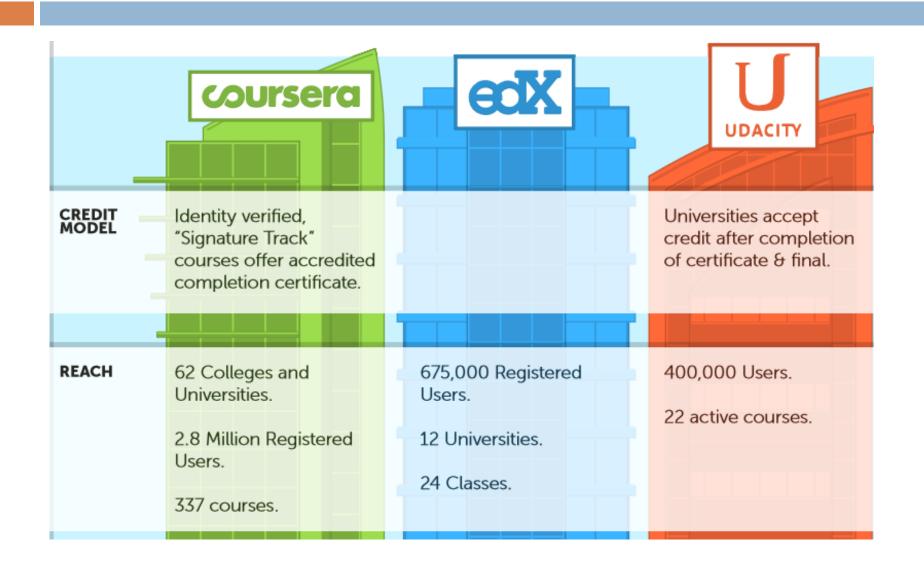
The opportunity that MOOCs offer for massification of courses has generated significant interest from governments, institutions and commercial organisations.

- pedagogy and quality of current MOOC courses
- viable financing model for its sustainability









Limits of Self-learning

