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# Reimagine Education

## Visions, Strategies and Examples

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edX

# CHANGE



# edX – A Non Profit, Open source venture founded by Harvard and MIT

edX

HOW IT WORKS FIND COURSES SCHOOLS & PARTNERS REGISTER LOG IN

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Take great **online courses** from the world's best universities

Course, school, or subject...

VIEW ALL COURSES

MITx  
11.12Bx  
Introduction to Game Design  
Current  
October 22, 2014

edX online courses starting soon

 DelftX DDA691x Delft Design Approach Current October 22, 2014	 HarvardX HUM2.4x The Ancient Greek Hero in 24 Hours (Hours 16-21): The Hero in Tragedy Current October 22, 2014	 UBCx Water201x Blue is the New Green Current October 22, 2014	 IMFx DSAx Debt Sustainability Analysis Current October 22, 2014
 DelftX TBPO1x Technology for Biobased Products Starting Soon October 27, 2014	 RiceX AdvENVSCI.1x AP <sup>®</sup> Environmental Science - Part 1: The Living World Upcoming October 27, 2014	 RiceX AdvPHY2.1x AP <sup>®</sup> Physics 2 – Part 1: Fluids and Thermodynamics Upcoming October 27, 2014	 DelftX CTB3365DWx Introduction to Drinking Water Treatment Starting Soon October 28, 2014

Expand  
*access to*  
quality  
education

Improve  
*on campus*  
education

Advance  
*research*

# The edX Impact...



**>4.5 MM+**  
Learners - doubling  
every year



**196+**  
Countries



**>12 MM+**  
Course Enrollments



**500+**  
Courses



**200+**  
Institutions, countries  
and corporations  
across the globe



**100s**  
Blended Classes

and... Billions of data points collected that are being analyzed to better understand key pedagogical trends

# Open.edX installation around the world



**FUN**

DÉCOUVRIR, APPRENDRE ET RÉUSSIR

QU'EST-CE QUE FUN ? | LES COURS | LES ÉTABLISSEMENTS

**VIVEZ L'EXPIÉRIENCE FUN**

Retrouvez les cours des universités et écoles françaises

عن إدراك، كيف تعلم مع إدراك | المساقات | عرض المساقين | سجل الآن | **إدراك**

**العالم لمن يريد...**

لاي شخص، في أي مكان، و في أي وقت

إدراك هي مبادرة من مؤسسة الملكة رانيا للتعليم والتنمية

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McKinsey Academy's digital courses are created and curated into programs that build business capabilities for our participants.

**Programs**

Each McKinsey Academy program comprises a series of courses that in combination build specific business capabilities for our participants. These programs are based on our experience building capability for our clients, the expertise of McKinsey, as well as our extensive training and development efforts within our firm.

Additional programs and courses are under development. Please email us for further details.

**MCKINSEY MANAGEMENT PROGRAM**

The McKinsey Management Program (MMP) is a set of courses for rising professionals looking to build leadership and management capabilities. This program integrates perspectives from McKinsey experts and external business leaders from around the globe.

**MCKINSEY LEADERSHIP PROGRAM**

The McKinsey Leadership Program is a set of courses specially configured for the top teams of participating organizations to enhance their skills in leading self, leading others, and leading business.

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objecte de cursos de les universitats catalanes

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**Polimi OPEN KNOWLEDGE**

MOOCs to BRIDGE THE GAPS

**Stanford University**

es from Stanford here, anytime

**Stanford ONLINE**

**إدراك**

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**edX** HOW IT WORKS | FIND COURSES | SCHOOLS & PARTNERS | REGISTER | SIGN

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Get College Ready & Prep for the AP exams

Grades in college prep courses, such as Advanced Placement®, are among the most important factors in college admissions. To help students succeed in high school and get ready for college, edX offers more than 40 high school courses from top universities.

**More than 40 High School and AP® Exam Preparation Courses**

Covering subjects ranging from mathematics to science, English and history, edX courses let students around the world prepare for college and the AP exams or supplement AP coursework. Teachers can also use the new high school course materials to augment their classroom curriculum. Take any course free, or pay for a Verified Certificate to share with teachers or college admissions.

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**45 Courses:**

<b>Rock Analysis 2e</b> Preparing for the AP® Biology Exam – Part 2: Evolution and Diversity Starting Soon January 28, 2015	<b>HarvardX CS202e</b> Programming in Scratch Starting Soon February 5, 2015	<b>SchoolHouse Algebra</b> Introduction to Algebra Starting Soon February 16, 2015
<b>SchoolHouse Geometry</b> Introduction to Geometry Starting Soon February 10, 2015	<b>St. Margaret's Episcopal School Arabic</b> Advanced Spanish Language and Culture Starting Soon February 19, 2015	<b>St. Margaret's Episcopal School Physics</b> Introduction to Physics Starting Soon February 23, 2015

Signal Processing for Music Applications

EdX Corequisite Exams en Español

Introducción a la Física de King Kong a través de la Física

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**دوروث doroth**

English

برنامج دوروث، مبادرة وطنية كبرى أطلقتها مجموعة موروث للتربية الحرة والتنمية المجتمعية بالتعاون مع وزارة التعليم العالي والبحث العلمي، بهدف تطوير سبل التعليم الإلكتروني من جهة والشراكة مع المؤسسات التعليمية من جهة أخرى، حيث يركز البرنامج على تطوير المحتوى الإلكتروني وتقديمه للمؤسسات التعليمية من خلال منصة دوروث الإلكترونية.

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**Community Blog**

Read the latest thoughts from the Open edX community.

**Documentation**

Find all Open edX documentation.

**JIRA**

Use the Open edX issue tracking system to view and submit tasks.

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Explore the Open edX code repositories.

**Mailing List**

Join the mailing lists for discussions about Open edX.

**Get the latest release of Open edX**

**Install Birch**

**edX**

# Higher Education “consumers” are changing

- More focused on having impact on a problem, than acquiring disciplinary depth
- Eager to learn in real-world, often global, contexts
- Entrepreneurial
- Socially aware & engaged
- Mobile
- Wired

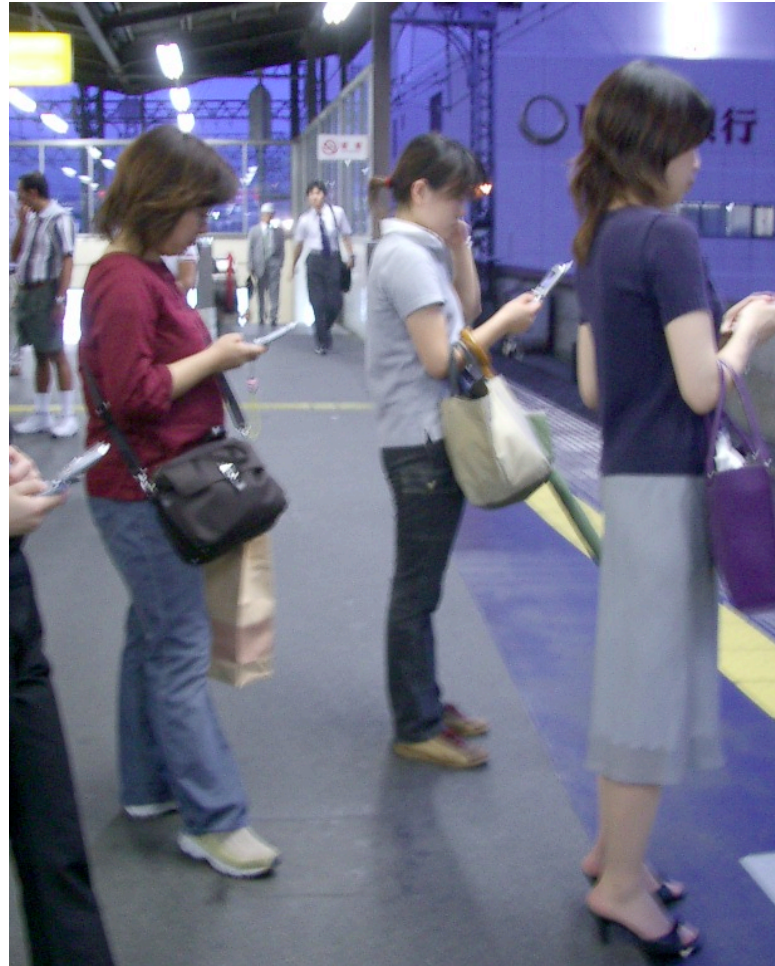


# Changes in students is being driven by external factors

Information is accessible anywhere, anytime, on any device

Students comfortable forming communities virtually as well as physically

Communication is as common online as in direct physical connections



# Disruptive trends influencing higher education

## Massive scale of adoption

YouTube claims 1 Billion unique viewers, 6 Billion hours of video watched each month

## Increased potential and demand for disaggregating or unbundling products

Unbundled music albums into 99-cent songs, users re-aggregate into their own playlists, Streaming of content – all you can “learn” buffets ?

## For profit, commercial players entering education “market”

Who will drive changes, who will own data, what is the role of governments, NGO's etc. ?



# We are debating these and other issues

Harvard/MIT trying to merge inside out and outside in as we realize the importance of invoking and embracing change that may come from many different directions

“Unit of learning” and impact on

- Delivery
- Synchronization
- Curricular structure

Role of residential experience

Impact on spaces

Impact on financial model

Role of Technology in student “lifecycle”

# Evolution of learning and learning spaces – Classroom

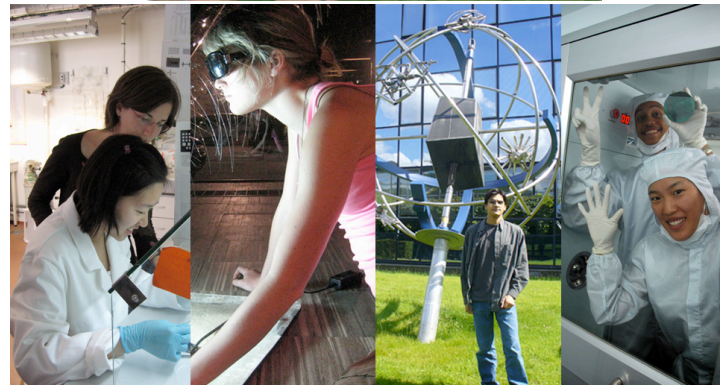
From room with a blackboard



To laptop with a network connection



To the cloud and an online forum – blended with in-person hands-on activities

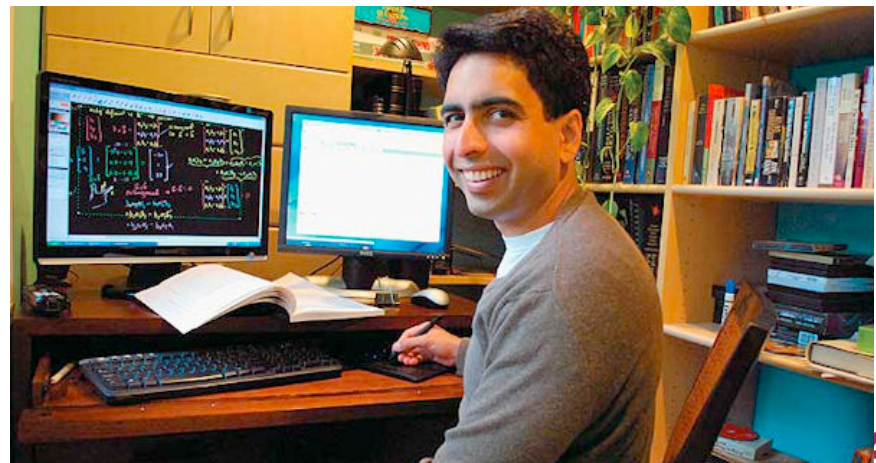


# Evolution of learning and learning spaces - Teaching

From podium-based  
knowledge broadcasting

To interactive small-group  
discussions

Are we orators or  
educators?



# Broader impact on the campus - Campus

Is “chalk and talk” still relevant?

What is the role of small, interactive spaces?

Is connectivity and interaction media increasingly important?



Courtesy of KI

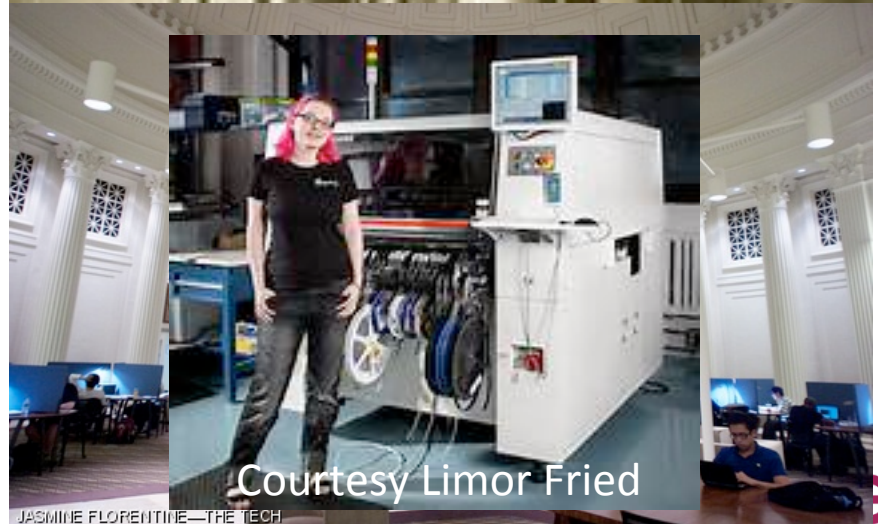
# Broader impact on the campus - Libraries

Are they a space to store reference material?

Are they spaces for collaboration and study?

Are they spaces for active learning?

A “maker space”?



Courtesy Limor Fried

# The Future...

Questions and Answers

# If learning happens anywhere at any time, how will content delivery change ? How drives change ?

1. What is the added value of a residential experience? How much of learning should be completed in a residential setting?
2. What is the “right” size of module for learning? And how should these modules be bundled?
3. How can communication and interaction be strengthened if students are physically and temporally dispersed?
4. How should a degree / certification be completed ? With less residential time? Or with breaks over an extended period? Or ...?
5. Who controls and owns data ? Who defines learning pathways ?
6. Where is change coming from, how to embrace it ?
7. To what extent is change driven by ICT ? ICT supportive or disruptive; enabling or a change agent ?

# THE FUTURE – AN OVERVIEW

Research into what works and what doesn't must be part of the equation, data is your friend. Ownership of data and appropriate use of data is critical.

Unbundling of time, function and content – changes to educational model; the when, by whom and how

Flexibility and localization is critical, but focus on “federated” model through regional, country and institutional partnerships

Adoption of open common technology standard(s) will prevent fragmentation into multiple incompatible standards – risk mitigation and avoiding dilution of investments

Both open (online) and blended learning ... Blended Learning needs to be an integral part of experience

Professional Education, High School, Curricular Pathways – content marketplaces

Financial sustainability - scale matters !

Focus on federated model through regional, country and institutional partnerships



# THE NEXT GENERATION CLASSROOM



**Changes to educational models are here to stay**