Learning is Changing: MOOCs, The Open World, and Beyond

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Audience Poll #1:
Has learning technology ever transformed your life.

1728: 1st correspondence course advertised Boston
(learn shorthand from Caleb Phillips thru weekly mailed lessons)
The First University Correspondence Course
(University of London, External Program, 1858)
1728-1990s – Generally postal system based
1930s – phonograph and radio
1950s and 1960s – television
1970s and 1980s – VHS tapes
1980s and 1990s – DVD

May 10, 2013
10 ed-tech tools of the 70s, 80s, and 90s
eSchool News, Meris Stansbury
http://www.eschoolnews.com/2013/05/10/10-ed-tech-tools-of-the-70s-80s-and-90s/print/

Looking to the Past...

Life as an accountant/CPA in a high tech company in the 1980s...
Took Correspondence & TV Courses
(thanks to Bob Clasen and Charles Wedemeyer, the University of Wisconsin)

Knowledge Navigator (1987)
Apple Computer

http://www.youtube.com/watch?v=hb4AzF6wEoc

Fast Forward 25+ Years...
“Anyone can now learn anything from anyone at any time.”

Audience Polls #2:
I. Who remembers where they were when they found out that Steve Jobs died?
II. Who remembers what they were doing on 9/11?
III. Who remembers what they were doing on April 4, 2001?
IV. Has this open educ. movement changed your life?

Charles Vest (April 4, 2001)

“This is about something bigger than MIT. I hope other universities will see us as educational leaders in this arena, and I hope very much that OpenCourseWare will draw other universities to do the same. We would be delighted if -- over time -- we have a world wide web of knowledge that raises the quality of learning -- and ultimately, the quality of life -- around the globe.”

Part I. Learning is Changing
New Technologies = New Delivery Methods...
May 20, 2013
The New Greatest Generation: Why Millennials will Save Us All, Time, Joel Stein
http://www.time.com/time/magazine/article/0,9171,2143001,00.html

I. Learning is More Open
(80-Year-Old WGU Texas Grad Keeps His Promise, November 30, 2012, Reeve Hamilton, Texas Tribune)

II. Learning also is More Collaborative
Collaboration and Discussion in Google Hangouts or with iPad, Jan. 28, 2013
(Carrie Gong from Beijing Normal University)

III. Learning is More Mobile

IV. Learning is More Video-Based
Adora Svitak, WFP Youth Representative - 2013
ECOSOC Youth Forum, March 27, 2013

V. Learning is More Social
Facebook reaches one billion users, CNN Money, Aaron Smith, October 4, 2012
VI. Learning is More Personal
iPotty Aims To Entertain Toddlers During Toilet Training, Mashable, Kate Freeman
(January 10, 2013)
http://mashable.com/2013/01/10/ipotty/

VII. Learning is More Modifiable
Inside Look: Learning Spaces, Meeting classroom teaching and collaboration expectations, University Business, Feb. 22, 2013

VIII. Learning is More Comfortable
Design for Students, with Students, “Hub Central”, the $42 million University of Adelaide learning hub opened in October 2011, May 8, 2012, Mike Roberts
http://designbuildsource.com.au/design-for-students-with-students

IX. Learning is More Ubiquitous
Flexible displays bend what’s possible for computers, Jon Swartz, USA Today (May 4, 2012)

X. Learning is More Instantaneous
April 9, 2013
HER Computer fashions face social test: Can wearable computers fit in? Scott Martin, USA Today
(i.e., magnify moles or injuries, see vital signs, live stream surgeries, access previous PT sessions, access research and drug info, etc.)
http://www.fiercemobilehealthcare.com/story/google-glasses-could-have-strong-potential-healthcare-use/2013-03-18

XI. Learning is More Global
UC Irvine (2013 report)
Example 3: Fundamentals of Japanese
Dr. Hidemi Riggs, Fall 2012 & Winter 2013, Tech-enhanced: EEE AdvancedWebspace (Dreamweaver), Skype video conferencing tool, Active Learning, Format: 3-1A lectures (24 students maximum); 3-2A lectures (24 students maximum); 2-3A lectures (24 students maximum)
XII. Learning is More Massive
April 16, 2013 (NovoEd)
New MOOC Provider Says It Fosters Peer Interaction
Chronicle of Higher Education, Jake New

http://novoed.com/

XIII. Learning is More Technology-Based

DataWind Prepared $20 Tablet Computer for Indian Market

A Canada-based company believes it can revolutionize education in India by rolling out a $20 tablet computer.

http://www.businessweek.com/2013/04/16/india-tablet-computer

April 15, 2013
World will soon be “Webified”
Google boss: Entire world will be online by 2020,
Doug Gross, CNN


Google Wi-Fi from the Sky, Steven Levy, pp. 126-131, Wired, September 2013
http://www.wired.com/gadgetlab/2013/08/google-project-loon/

The Web of Learning
(at least in Norway & the Philippines)
We are entering a jumping off point...

Framework #1: WE-ALL-LEARN: Ten Forces that Opened the Learning World
- Web Searching in the World of e-Books (i.e., Darwin)
- E-Learning and Blended Learning
- Availability of Open Source and Free Software (e.g., Moodle)
- Leveraged Resources and OpenCourseWare (e.g., MIT)
- Learning Object Repositories and Portals (i.e., shared content)
- Learner Participation in Open Info Communities (YouTube)
- Electronic Collaboration and Interaction (sync and async)
- Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)
- Real-Time Mobility and Portability (e.g., iPhone)
- Networks of Personalized Learning (Blogs, RSS)

Audience Participation!

WE

ALL

LEARN!!!

Opener #1. Web Searching (e.g., Google, MSN, Yahoo!) in the World of e-Books (i.e., Darwin, Shakespeare, etc.)

OpenStax College
(OpenStax College offers students free textbooks that meet scope and sequence requirements for most courses. These are peer-reviewed texts written by professional content developers.)
http://openstaxcollege.org/

Opener #2. E-Learning and Blended Learning
Why I spent 10th grade online. Sophia Pink, Washington Post, August 23, 2013

Opener #3. Availability of Open Source and Free Software Moodle
(July 18, 2013: 72 million users in 237 countries, 84,518 sites, 7.6 million courses)

Opener #4. Leveraged Resources and OpenCourseWare (OCW) (e.g., free courses from Harvard Edx, MITx, CORE, OOPS)

Opener #5. Online Learning Object Repositories and Portals (shared content)

Online Encyclopedias (e.g, the Encyclopedia of Earth: http://www.eoearth.org/
October 2010, The V-PORTAL (Bonk, IU) "Video Primers in an Online Repository for e-Teaching and Learning" V-PORTAL, TravelinEdMan (27 free/open YouTube videos) 
http://www.youtube.com/user/TravelinEdMan

Opener #6. Learner Participation in Open Information Communities (e.g., Slashdot, Digg, Wikipedia, YouTube)

Opener #7. Electronic Collaboration and Interaction (synchronous & asynchronous) 
Soliya Connect 
http://gli.georgetown.edu/#soliya

Opener #8. Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)

April 15, 2013 
Guest Speakers 
Sara de Freitas and Jim Hensman (https://connect.iu.edu/p2ie1yx6z6x) 
Jay Cross (https://connect.iu.edu/p4bytsoronh)

Google Hangouts 
Class Sync Collaboration and Discussion (Spring, 2013)
September 5, 2013
Video games may improve brain power in older adults

Opener #9. Real-Time Mobility and Portability (e.g., iPhone, iPads, smart watches (September 4, 2013))


Opener #10. Networks of Personalized Learning (Blogs, Podcasts, Facebook, and RSS feeds, etc.)

May 22, 2013
Video Walls of Experts (IQ Wall)
Indiana University unveils high-tech classroom
The Herald-Times, Mike Leonard
http://www.indianaeconomicdigest.net/main.asp?SectionID=31&SubSectionID=135&ArticleID=69980
What about the Instructor in the Open World?

Instructor as Curator

Instructor as Concierge

Audience Poll #3:
Have you taught a MOOC before?
Have you ever taken a MOOC as a student?
Have you ever browsed a MOOC?

A. Yes
B. No

January 2013
MOOCs and the Collaboration Industry,
Wainhouse Research Note,
Analyst: Alan D. Greenberg

Mystery of MOOCs:
Part II. Some MOOC news from the past year...
November 2, 2012
The Year of the MOOC,
New York Times, Laura Pappano,
http://www.nytimes.com/2012/11/04/education/edlife/massive-open-online-courses-are-multiplying.html?pagewanted=all

Clockwise, from top left: an online course in circuits and electronics with an M.I.T. professor (edX); statistics, Stanford (Udacity); machine learning, Stanford (Coursera); organic chemistry, University of Illinois, Urbana (Coursera).

July 16, 2013
"Golden Era of Learning"
Bill Gates Discusses MOOCs at Microsoft Research’s Faculty Summit

June-July, 2013
Welcome to the MOOC Research Hub,
Gates Foundation
http://www.moocresearch.com

Welcome to the MOOCResearch Hub

Research Initiative
MOOC Research Hub is a multi-institutional initiative with world-renowned experts in new learning models.

September 16, 2013
Rwandan Degree Program Aims for a ‘University in a Box’, Chronicle of Higher Education, Megan O’Neil
http://chronicle.com/article/Rwandan-Degree-Program-Aims/141631/

Students attend an orientation session at Kepler, a new hybrid program in Kigali, Rwanda, which will use MOOCs and classroom time to help students earn competency-based associate degrees.

January 23, 2013: The Bush MOOC Party?
Academic Partnerships Launches MOOC2Degree Initiative
Free, Open Online Courses As A First Step Toward A Degree
http://www.mooc2degree.com/

February 27, 2013 (Inside HE)
Grade My Course (i.e., Yelp for Ed)
http://www.grademycourse.com/
May 6, 2013
Faculty Backlash Grows Against Online Partnerships
Chronicle of Higher Education, Steve Kolowich
http://chronicle.com/article/Faculty-Backlash-Grows-Against/139049/

February 24, 2013
Big (MOOC) Data, Inside Higher Education, Dayna Catropa

February 5, 2013
Bioelectricity: A Quantitative Approach, Duke University’s First MOOC

May 2013
MOOCs @ Edinburgh 2013– Report #1

October 8, 2013
An Early Report Card on Massive Open Online Courses, Geoffrey A. Fowler, WSJ Online
http://online.wsj.com/article/SB10001424052702303759604579093400834738972.html#project%3DMOOCchrtPRINT%26articleTabs%3Dinteractive
Video: http://online.wsj.com/article/SB10001424052702303759604579093400834738972.html#project%3DMOOCchrtPRINT%26articleTabs%3Dvideo
August 8, 2013
The MOOC 'Revolution' May Not Be as Disruptive as Some Had Imagined
Steve Kolowich, Chronicle of Higher Ed

Mystery of MOOCs:
Part II. 15 MOOC Leadership Principles

MOOC Leadership Principle #1: Be First!
June 21, 2011 and August 2, 2011
Stanford U. Offers Free Online Course in Artificial Intelligence (over 160,000 enroll, 23,000 complete, and 238 perfect scores; http://www.ai-class.com/)

MOOC Leadership Principle #2: Offer Something Novel or Distinct
September 15, 2011, Stanford Engineering, Everywhere (SEE) http://see.stanford.edu/
View lecture videos, access reading lists & course handouts, take quizzes and tests, and communicate with other students.

MOOC Leadership Principle #3: Take Risks
January 23, 2012, Udacity- Sebastian Thrun
http://www.udacity.com/

August 18, 2013
Virtual U: Master’s Degree Is New Frontier of Study Online
Tamar Lewin, The New York Times
http://www.nytimes.com/2013/08/18/education/masters-degree-is-new-frontier-of-study.html?_r=0
**MOOC Leadership Principle #4:**

Rethink Delivery, Assessment, Certification, Students, etc.

*Guess what! You just got into MIT!*  
(Feb 15, 2012)  
Stanford to help build edX MOOC platform,  
Washington Post, Nick Anderson  
(April 2, 2013)

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**MOOC Leadership Principle #5:**

Form Strategic Relationships

*April 18 and Sept 19, 2012: Coursera*

(https://www.coursera.org/)

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**Course List of Courses**

National Taiwan University

https://www.coursera.org/taiwan

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**September 18, 2013**

MIT Will Offer MOOC Curricula, Not Just Single Courses, on edX, Steve Kolowich, Chronicle of HE  

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**Google and edX Create a MOOC Site for the Rest of Us, Steve Kolowich, September 10, 2013**

Google and edX Create a MOOC Site for the Rest of Us  
September 10, 2013, 9:26pm  
By Steve Kolowich  
Google and edX Create a MOOC Site for the Rest of Us/46413?cid=pm&utm_source=pm&utm_medium=en

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**December 13, 2012**

UK universities in online launch to challenge US, BBC News, Sean Coughlan  
http://www.bbc.co.uk/news/education-20697392

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The Open University’s Martin Bean says UK universities cannot “stick their head in the sand”
MOOC Leadership Principle #6:
Conduct Formative Evaluation
Inside a MOOC in Progress, Karen Head,
Inside a MOOC in Progress
By Karen Head

MOOC Leadership Principle #7:
Collect Testimonials
June 11, 2012
http://chronicle.com/article/4-Professors-Discuss-Teaching/132125/

August 5, 2013
Free Online Higher Education: 5 Best MOOCs
By Kannan Sankaran, Epoch Times
http://www.thepochtimes.com/n3/5-best-moocs-free-online-higher-education/
MOOC at UPenn; Recession Fuels Explosion of Online Learning
http://www.youtube.com/watch?v=52rFiM40l5w

MOOC Leadership Principle #8:
Set Bold (i.e., Audacious) Goals
June 18, 2012
http://www.openculture.com/2012/06/udacity_to_launch_5_new_classes.html

September 9, 2013
Creativity MOOC Draw 120,000 Students (Penn State), Campus Technology, Leila Meyer
3 Student Profiles: Adventurers (committed); Tourists (pick and choose); and Explorers (in between)
Dr. Jack V. Matson, Dr. Darrell Velegol and Dr. Kathryn W. Jablokow,
Penn State University, Coursera

MOOC Leadership Principle #9:
Generate Media Attention
June 25, 2012
http://www.forbes.com/sites/georgeanders/2012/06/05/udacity-sebastian-thrun-disrupting-higher-education/
MOOC Leadership Principle #10: Build on Strengths and Niche areas (i.e., Find Your Element)
UW-Madison to expand distance learning with Massive Open Online Courses, Kari Knutson, University of Wisconsin-Madison News
http://www.news.wisc.edu/21520?utm_source=iUW&utm_medium=email&utm_campaign=iUW-02-21

MOOC Course from Canvas “The Walking Dead”
September 4, 2013
https://www.canvas.net/courses/the-walking-dead

MOOC Leadership Principle #11: Do Not Make Rash Decisions
July 17, 2012
http://chronicle.com/article/After-Leadership-Crisis-Fueled/132917/

MOOC Leadership Principle #12: Be Proactive in Addressing Concerns
August 16 & September 6, 2012

MOOC Leadership Principle #13: Give Something Away
July 11, 2013, Blackboard Goes MOOC
Inside Higher Ed, Rv Rivard

April 27, 2012
Introduction to Blackboard/CourseSites MOOC, With Dr. Curt Bonk: “Instructional Ideas and Technology Tools for Online Success” (4,039 now enrolled)
http://www.youtube.com/watch?v=rBNe8CUePTQ&feature=youtu.be
MOOC Leadership Principle #14: Ask Questions
Dec 11, 2012
UMass Boston
http://chronicle.com/article/Massive-Excitement/134678/

MOOC Leadership Principle #15: Locate New Markets

Mystery of MOOCs:
Part III. 4 Types of MOOCs

MOOC Type #1.
Theory- or Trend-Driven MOOC

MOOC Type #2.
Remedial Course MOOC

MOOC Type #3.
Degree or Program Qualifier or System Bottleneck MOOC
MOOC Type #4.
Professional Development (PD) (practical) MOOC

Mystery of MOOCs:
Part IV. Nine MOOC Business Plans and Models

MOOC Business Model #1.
Advertisers Underwrite Courses and Degrees

MOOC Business Model #2.
Small and Flexible Application or Enrollment Fee

MOOC Business Model #3.
Course Assessment Fee

MOOC Business Model #4.
Certificate Fee (with sticker)
https://twitter.com/drchuck/status/262423228717355009/photo/1
MOOC Business Model #5. Enhanced Course Fee and Option for University Credit (full price)

MOOC Business Model #6. Percent of First Year Salary (companies pay for names and contact info of high performers)

MOOC Business Model #7. Sell or Lease Courses, Charge for Course Development (e.g., to Community Colleges)

MOOC Business Model #8. Free Entryway Course

MOOC Business Model #9. Charge Fee for Student Data

Mystery of MOOCs: Part V. A Dozen MOOC Instructor Guidelines
MOOC Instructor Guide #1.
Plan and Prepare
October 12, 2012
Radical rethink: how to design university courses in the online age, Paul Wappett, The Conversation, Australia
http://theconversation.edu.au/radical-rethink-how-to-design-university-courses-in-the-online-age

MOOC Guide #2.
Designate Feedback Providers and Tasks (especially in Week One)

MOOC Guide #3.
Use Peer, Machine, Volunteer, and Self-Assessment

MOOC Guide #4.
Address Participants by Geographic Region

MOOC Guide #5.
Personalize Where Possible!

October 27, 2012
Chuck Severance (U Michigan/Coursera) in Barcelona, Seoul, Manila, Melbourne, etc.
http://www.youtube.com/watch?v=3hNtvndv8TI
MOOC Guide #6. Form Groups and Social Supports

MOOC Guide #7. Combine Sync and Async Instruction

MOOC Guide #8. Arrive Early for Sync Session

MOOC Guide #9. Check Chat Window for Comments and Questions

MOOC Guide #10. Reflect Near End of Each Sync Session (e.g., Top 3 Activity in Chat Window)

MOOC Guide #11. Share Resources and Recap them Weekly
MOOC Guide #12.
Involve the Participants (e.g., use debates, polling questions)

Jean-Luc Picard said what?
That’s right, Engage!

Framework #1: R2D2
Framework #2: TEC-VARIETY
(motivation and retention online)

Poll #4: Would you like to teach or take a MOOC now?
A. Yes...
B. No...

Questions?
Slides at: TrainingShare.com
Papers: PublicationShare.com
Book: http://worldisopen.com/
Email: curt@worldisopen.com