**How the Web** changes the World Universities (or not)



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**EPrints Services** 

Web Science DTC





With thanks to Professor Hugh Davis,

Director of Institute for Learning Innovation and Development

# Universities & The World









England Oxford Cambridge Clasgow

rited Kingdom Union

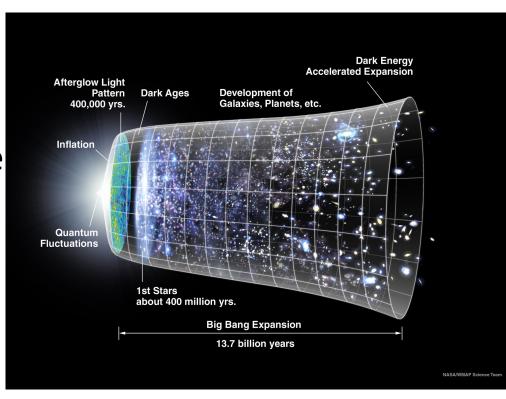


# Web Disruption at University?

- How much difference does the Web make to your education?
  - See my spreadsheet from 5 years ago
- What would happen if the following blew up
  - the University's web servers?
  - the University's connection to the Internet?
  - Southampton's connections to the Internet?
  - the UK's connection to the rest of the Internet?

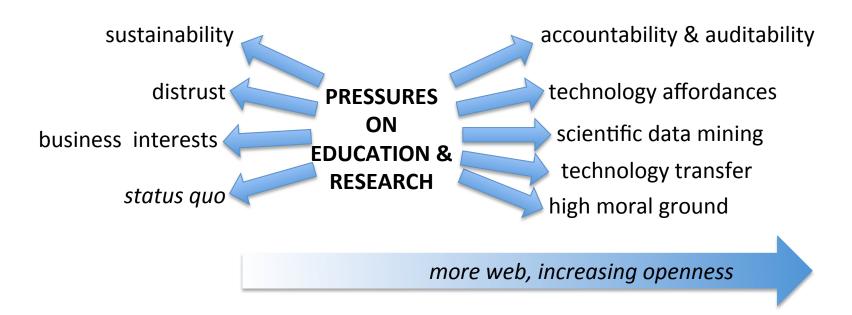
# Expansion of the Web

- The Web spread the conditions of its initial creation throughout the whole of society as it underwent an initial inflationary phase.
- The academy
  - government patronage
  - large-scale co-operation
  - sharing of intellectual property



Remember I actually said this "We got the web of the researchers"

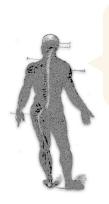
## **Directions for Academics**



- MOOCS, Open Science, Open Data, Open Educational Resources
  - Web Technology joins the High Moral Ground
- vs the established economic model for ensuring continuity of information production
  - trading of privately held information through payment and subscription products such as journals or magazines

## Directions for Businesses

The key commercial differentiating advantage of the web: It's porous.



1 NETWORKED

The web is us, dummy.



2 SEAMLESS

No structural barriers.



3 OPEN

Social engagement and consensus. Led by users.



4 COMPELLING

Don't be dull or merely important.



5 PURPOSE BEYOND PROFI

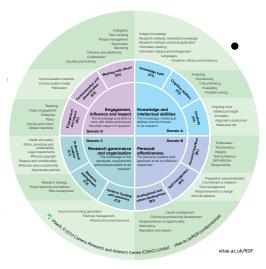
Multidimensional value

The Web helps us to break down external and internal barriers

## **DTCs & Graduate Education**

- Higher education is more than
  - Acquiring advanced knowledge
  - Acquiring advanced skills





It is also

- Acquiring a leadership position within the digital economy
- By a mentored program of networked industry engagements/relationships

 Don't just write a thesis, form an impressive network and take advantage of it



### MOOC



Courses

UNIVERSITYOF

BIRMINGHAM

Southampton

| < |

About

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Sign in



### What is a MOOC?

Massive - some have 10,000s registered.

Open = free anyone can register

Short (often 4-8 weeks, 3 hrs /week) No formal assessment and feedback Rely on Social Learning

Online although many have a parallel blended incarnation

Course - that runs at a given time with a given cohort (but not necessarily accredited for anything)

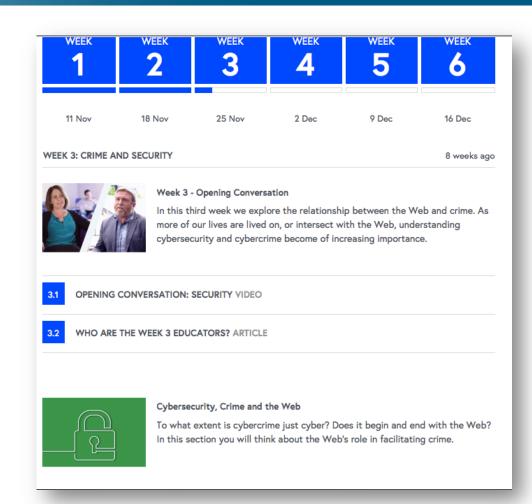




### What are MOOCs made of?

#### Most MOOCs consist of:

- Many short videos
  - Some talking heads
  - Some "worked examples"
  - Some experiments etc.
- On-line papers etc.
- On-line activities
- Links to external resources
- Discussions on platform
- Off platform activity





### Assessment and Feedback?

Assessment (and feedback) will need to be

- Objective (multiple choice etc.)
- Peer review
- Self evaluation

The emphasis must be on the student as a self-motivated learner.

No "Conversational Framework" here!





### **MOOC Providers**



**Udacity** the first "democratizing education" but still for profit. Started at Stanford.



**Coursera** for profit

but business model only just emerging 2,000,000 people have taken a course, from the catalogue of around 200. Only 7-9% complete.



**EdX** not for profit

MIT, Harvard, Berkeley



**Futurelearn** for profit

Based in UK at OU

aspires to include top 30-40 universities

Director is Simon Nelson - responsible previously for BBC digital

strategy





# FutureLearn platform (Sept 2013)













































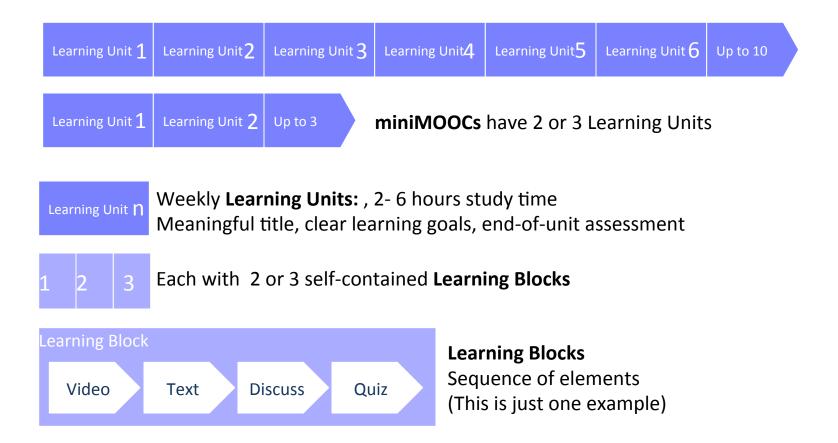








### FutureLearn MOOC Structure



#### **WEB SCIENCE**

General stats: 11 - 18 November





8,226 Unique visitors



296,052

page views





21,236



Visits per learner



per visit



13,183 Joined course 426 have since left



4,361 Marking steps as complete

Completed steps

per learner



Comments



39% of active learners



Comments per learner

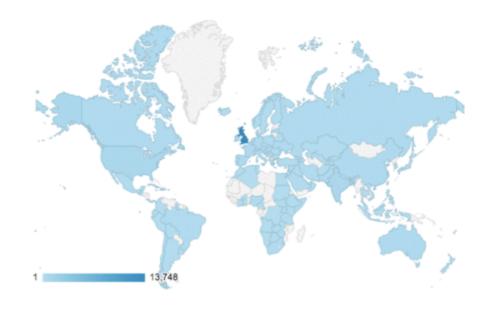
#### **WEB SCIENCE**

Countries: 11 - 18 November

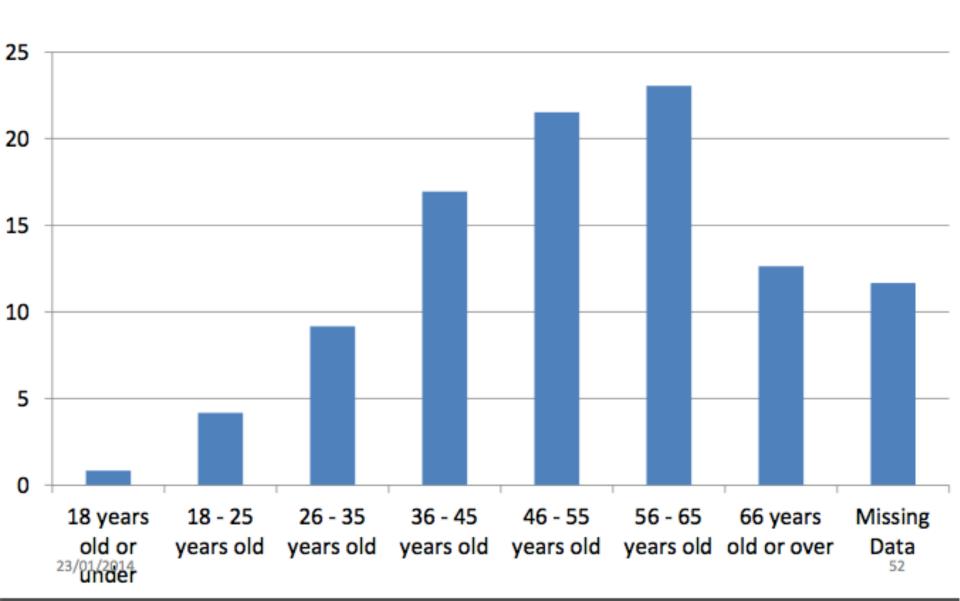


### **Top 10**

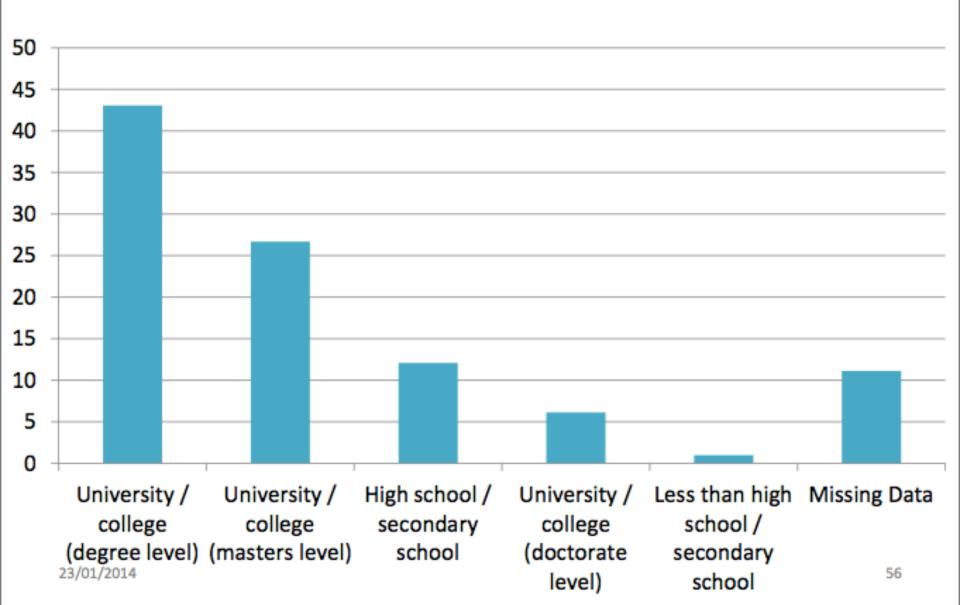
- 1. United Kingdom (77%)
- 2. United States (2%)
- 3. India (2%)
- 4. Ireland (2%)
- 5. Spain (2%)
- 6. China (1%)
- 7. Australia (1%)
- 8. Italy (1%)
- 9. France (1%)
- 10. Greece (1%)



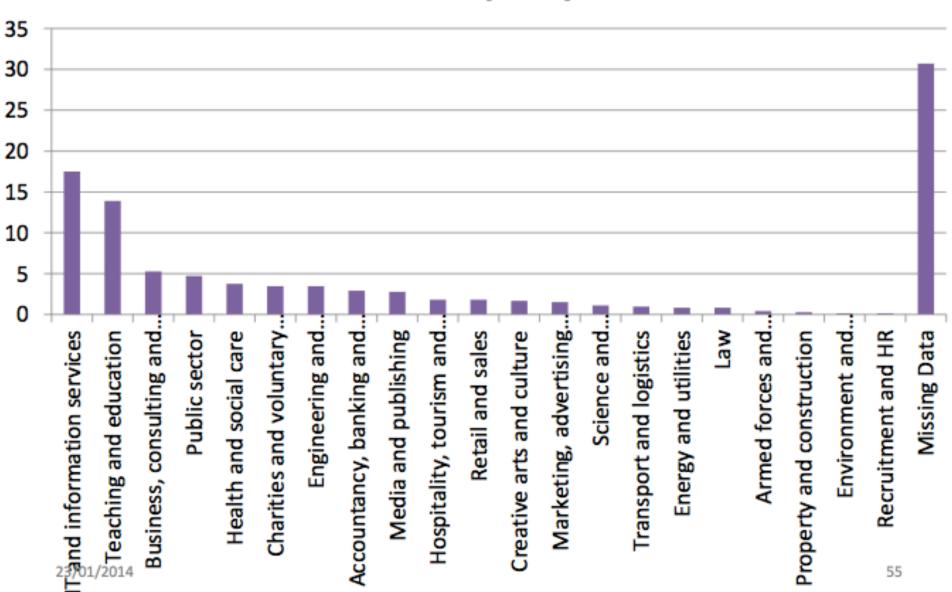
# Age group



# Level of education

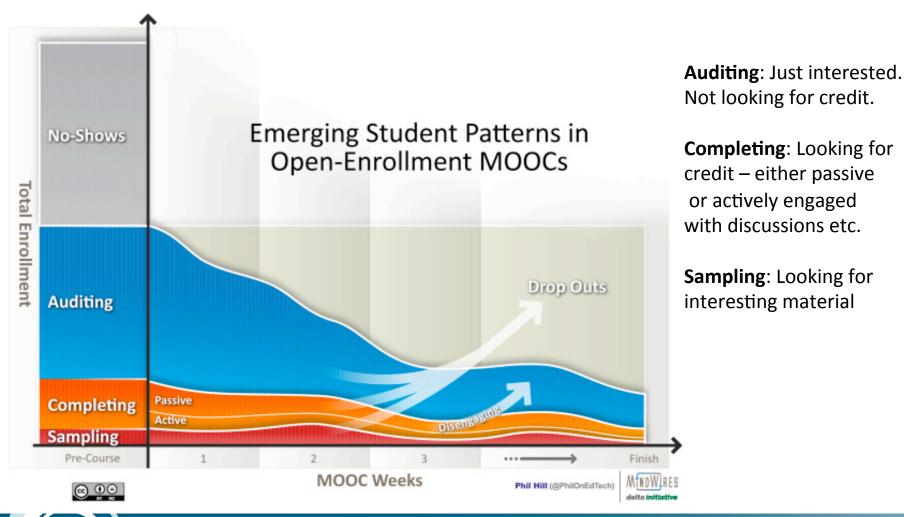


# Area of employment?





### Patterns of engagement





## How do MOOCs make money?

#### The Fremium Model

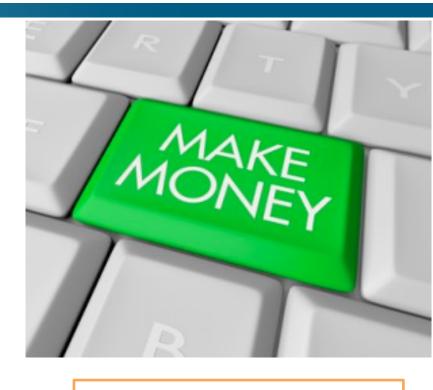
You get added value if you pay e.g.

- Statements of participation, or attainment – or actual credits?
- Tutoring the eBay model

### **Sponsored MOOCs**

- Someone pays me to make the MOOC I want (for their marketing purposes)
- Someone pays me to make the MOOC
   they want but I can use too.

#### Access to student data



But this is all money for the Platform Provider. Why do **Universities** and Academics do this?

## Our Business Model = marketing + educational;

- 1. Enhancing Reputation (particularly for the flagship subjects)
  - being good world citizens in *democratising education*
- 2. Reaching new markets
  - (International Markets)
  - (The CPD market)
- 3. Increasing Our Capacity on-line
  - (building a unit to create on-line)
  - (educating our staff in the possibilities)
- Trying to move our F2F experience further from Content Delivery and more to using it for achieving deeper understanding
  - flipped classroom
  - flipped MOOC

#### **Georgia Tech Model**

\$6600 per year per person (cf \$45000 for campus based) 400 students in first paying cohort (actually not open)



# The Cost of Making a MOOC?

According to Edinburgh - £30,000 each.

There seems to be some consensus around this, although few people are sharing any figures

		34	TOTALS			
		35		Hours	% of total	
	The ScHARR MOOCS Diaries: Part X – The cost of developing a MOOC (Chris Blackmore, University of Sheffield)		All	489.5		
			Learning Technologists	62	13	
		;	Academic advisors	125	26	
		)	MOOC leaders	296	60	
		)	Content developers	0	0	
			CiCS input	4.5	1	
		42	Admin support	2	0	
higher, including costs for Legal, copyright clearance, marketing		43				
		44				
	anagement time, teaching assistant	45				
ma		46				



### Want to be a MOOC Star?

We had a team of around 15 academics, 15 research PGs, 6 CITE staff, 2 legal staff and a librarian on WS MOOC Cost? "£30k" and the rest



# Opening conversation: the future of Web Science

In this discussion it is suggested that computer science is a branch of science fiction, allowing a new world to be built with powerful



### **Structures**

### **Steering Group** (every 2 months)

**Chief Financial Officer** 

**PVC Ed** 

Director of Centre of Innovation in

Technologies and Education (CITE)

**Director of Marketing and Communications** 

**Legal Services** 

Director of iSolutions

The Librarian

Head of QA

#### **CITE** (weekly)

Learning design

Project management

Video and Multimedia Production

#### **Consultants**

External production company

#### **Academic Team** (with CITE every week)

No established model yet

Our Web Science MOOC is involved a team of around 12 academic staff and 6 PGRs over last summer

#### The Library and Legal (weekly)

**Resource Discovery** 

Rights clearance

Licences

### Futurelearn Liaison (monthly ++)

### Reporting/QA

#### **Run Time Team**

Runtime Manager Academics/Postdocs/PhDs social media & comment handling



### **HE Context**

Fees going up faster than value of degree

Increased demand for flexibility of study (particularly CPD)

Need for universities to globalize or specialize

Challenge from alternative educational providers (particularly for MSc's/CPD) becoming real

All these things imply a greater engagement with on-line

Changing Business model for higher education

MOOCs are the vanguard for on-line programmes













