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Beyond Borders: Global Learning in a Networked World Downes, Stephen

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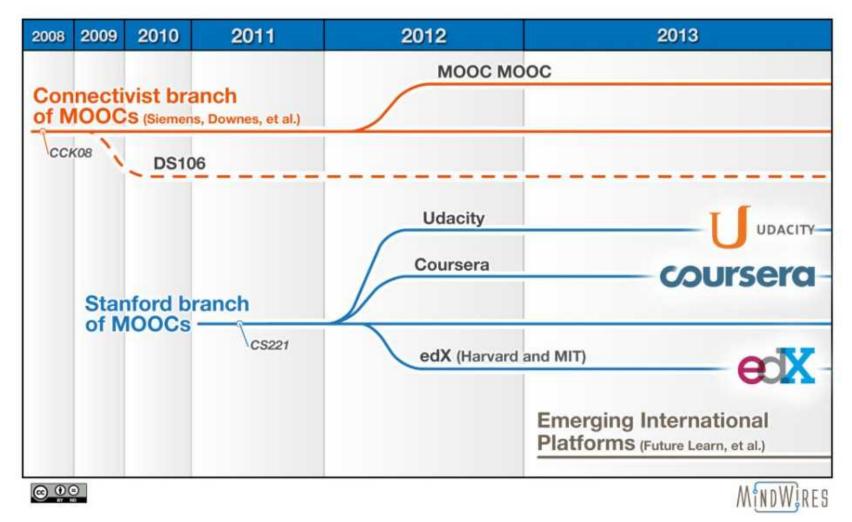


Beyond Borders...

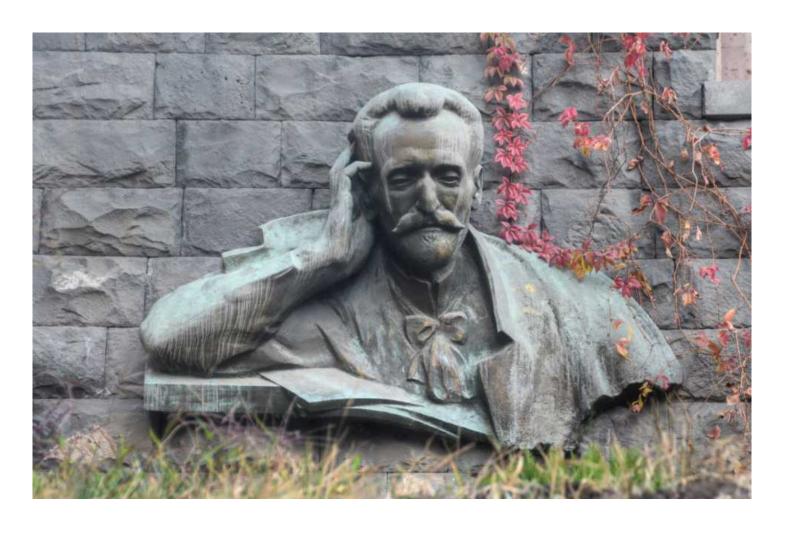


- We speak many different languages
- This is both the challenge and the opportunity

The MOOC Revolution



What does it mean?



The point of the MOOC is to be open

But that means more than just free stuff, and more than just online videos





It's a way of thinking, a way of relating to the world

It's a way of creating harmony through diversity

When each of us speaks a different language we all have something unique to say



Open learning...



Open University opens in 1971
Athabasca University (1970/72)
Indira Gandhi National Open University (1985)

Open learning (2)

- Over time enhanced accessibility
 - distance learning
 - reduction of financial barriers
 - tuition reductions
 - subsidies
 - progressive pedagogies
 - Creation of distance learning pedagogies
 - Moore, Merrill, Gagne



Open resources

- Project Gutenberg
- Open Archives Initiative
 - BOAI
 - Dspace
 - ROAR
- Wikipedia
 - Curricki
 - Wikiversity
 - WikiEducator



The OERu Logic Model



Students awarded credible degree or credential



Participating institutions grant credit for courses





Open assessment from participating institutions





Open student support via "Academic Volunteers International"





Learners access courses based solely on OER



Taylor, J.C. 2007. Open courseware futures: Creating a parallel universe. e-Journal of Instructional Science and Technology (e-JIST), Vol 10, No. 1. Online: http://www.ascilite.org.au/ajet/e-jist/docs/vol10_no1/papers/full_papers/taylorj.htm

Criticism of the Logic Model



- Traditional Curricular based approach
 - a focus on articulation & credit transfer
 - closed federation of traditional institutes
- Tight link to traditional credentials

It's open delivery, but it's not open *learning*...



Friere: it's the banking method of education

Open versus closed delivery

- Learning objectives
 - concrete and stated Learning Objectives vs. unstated and multiple objectives
- Organization of subject matter
 - knowledge of vs knowledge about
 - linear organization vs knowledge community



Open versus closed assessment

- Subject and contentfocused assessment, vs. performance-based and networked-based
- Assessment against external criteria vs. selfassessment
- Assessment byinstructor vs. 3rd-party assessment



Free Learning

- Connectivist, or network, learning
- Network design principles: distributed, disintermediated, dynamic
- Design based on the 'semantic principle'





Learning is a matter of personal growth, not an accumulation of facts

Connectivist Learning Design

- A non-curricular based approach
 - course content is the 'McGuffin'
 - learning takes places through interaction and creativity



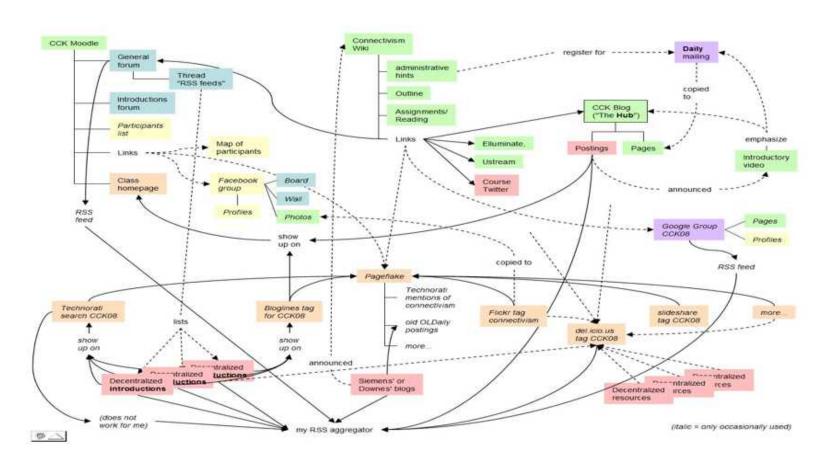
But... why

- It's a formal recognition that people have different destinations, different tastes
- Based on an understanding that knowledge varies according to these
- Expresses the principle that networks communities – are stronger with multiple diverse perspectives
- Knowledge learned is better indeed, known

In diversity, harmony and growth



A Map of the Community

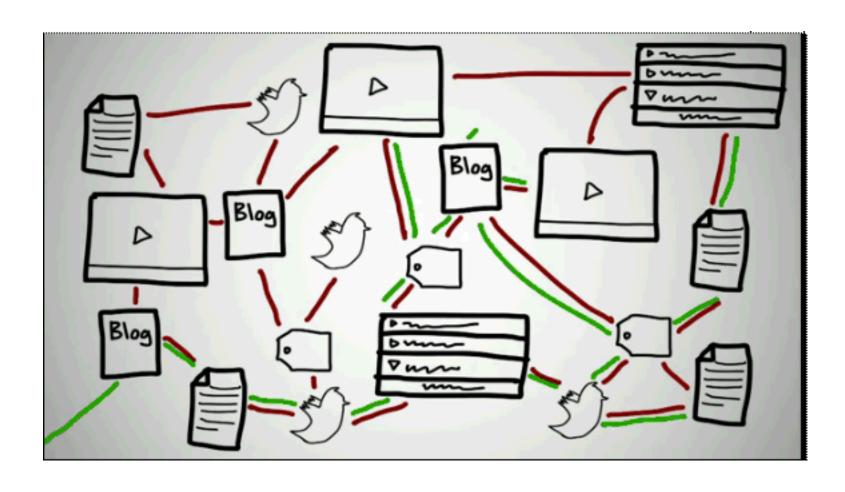


Connectivism: A Theory of Personal Learning Stephen Downes, December 3, 2008, Educational Development Centre, Ottawa http://www.downes.ca/presentation/208

Our MOOC Model

- MOOC: Massive Open Online Course
- There is no central core feature no core content, group, etc
- Course design is a network, or a map, or a community
- Resources are distributed, and aggregated
- Participants are encouraged to create their own resources, communities, groups

Connectivism & Connective Knowledge



How to be Successful in a MOOC



The madness and mayhem of DS106



Jim Groom

DS = Digital Storytelling
DS106 redefined activities and participation

http://ds106.us/

eduMOOC underground

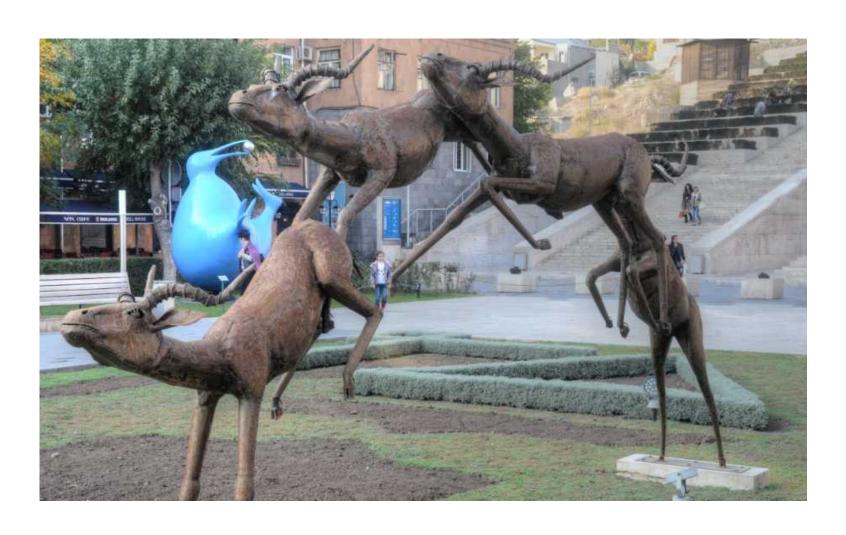




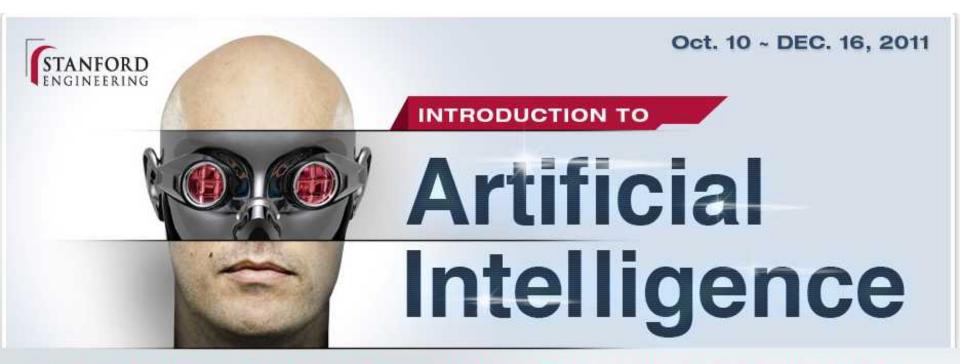
Jeff Lebow

Jeff Lebow, Google+ hangout, and Livestream:
Taking something ordinary, and making it something
special – YOU make the MOOC
http://www.livestream.com/jefflebow/

2011: Year of the MOOC



Al-Class: Redefining Massive

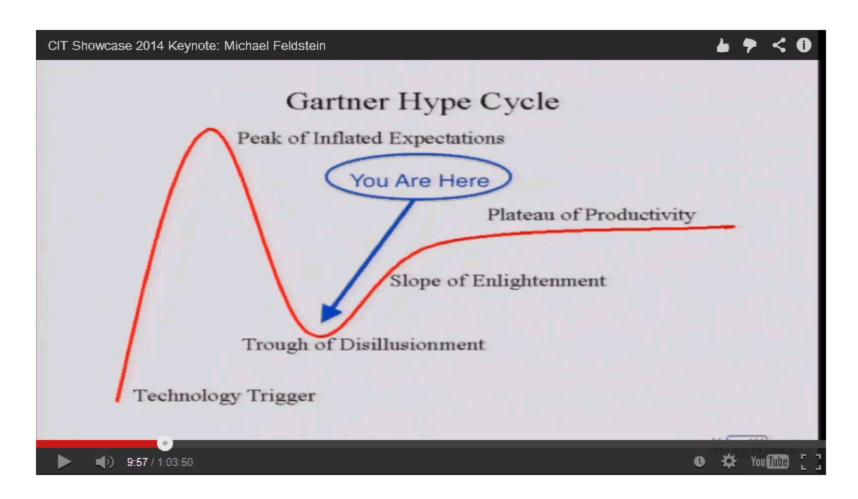


In partnership with the Stanford University School of Engineering. You can join this online worldwide class this fall.

More than 100,000 people signed up for preregistration – they got videos and online quizzes

http://www.ai-class.com/

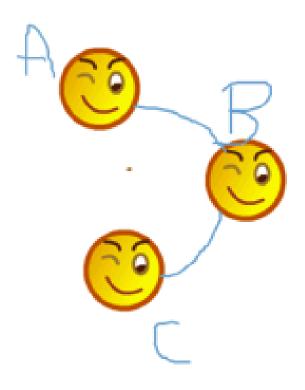
2014: Year of the Anti-MOOC



Transforming the system



New cultures of learning





Autonomy

Freedom as the factors affecting mental states (empirical, cognitive, psychological)



Freedom as the capacity to act on mental states (physical, social, structural, resources)



Scope and range of autonomous behaviour (expression, association, selection, method)



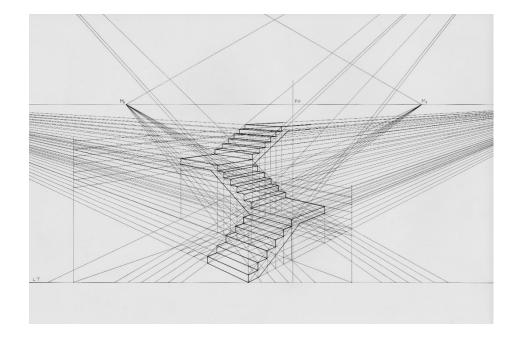
Diversity

Composition - many types of entities

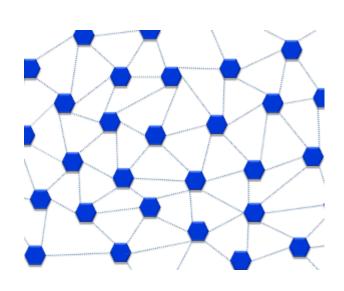
• Intention (of goals, desires (cf JS Mill))

Perspective (uniqueness of point of view,

language)



Mathematics of diversity (multiple inputs produce mesh networks)



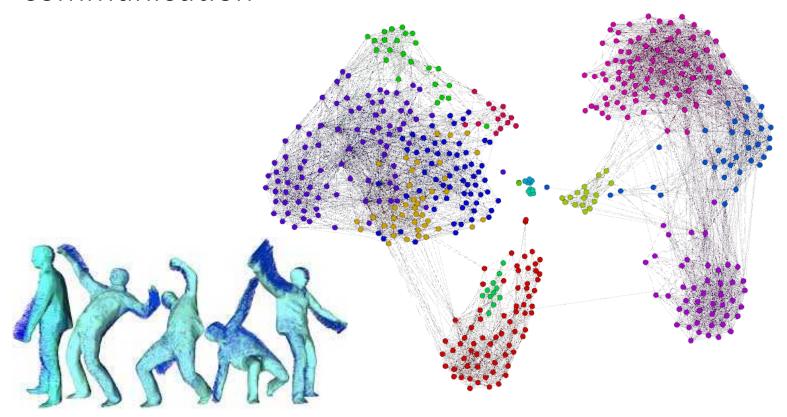
- Putnam, Florida, and the rest of it
- Homophily and associationism

Openness

- Open education, yes
 - Open content, teaching, assessment
 - Stages of openness and terminal path

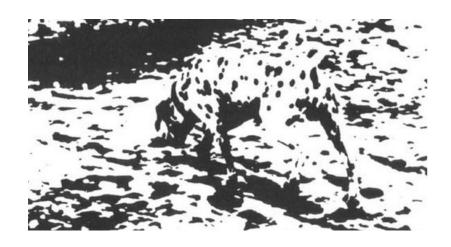


- Open networks (clustering instead of grouping)
- Flow (input, output, feedback, plasticity)
- Open Educational Resources as the *medium of* communication



Interactivity

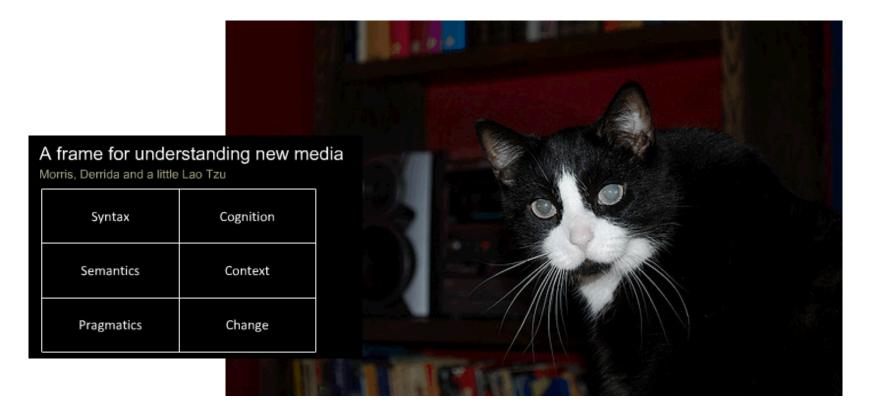
• Influence vs emergence (thought-bubbles – "we perceive wholes where there are only holes")



- Knowledge as pattern recognition
 - Ontological (real) vs perceptual (recognized)



Critical Literacies



Understanding how we use artifacts to communicate in online and other learning networks

http://www.downe

http://www.downes.ca/presentation/232

New Roles for Government

- Communications and Education Infrastructure
- Support for Open Educational Resources
- Support for Free Learning
- Management of assessments and credentialing



The Digital Infrastructure

- Public high-speed backbone networks
 - used not only for education but for other public services: police, fire and emergency, hospital, municipalities, etc.
- Local Access
 - eg. Community Access Points
- Legal Framework
 - policy on digital rights and copyright
 - net neutrality and similar regulations

A Note on Sustainability

Whatever we really want is sustainable



Like, say, highways and roads

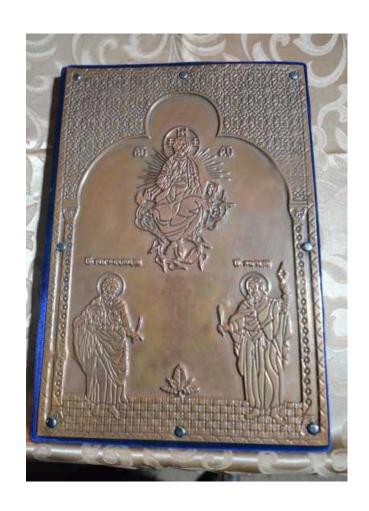
Sustaining Infrastructure

- Support for existing programs and services
 - cost reductions in communications overhead
 - improved efficiency of public service delivery
- Overhead on entertainment and commercial infrastructure
 - similar to broadcast 'CanCon' requirements



Open Educational Resources

- Traditional Resources
 - Already developed and paid for by government
 - Open access initiatives
- Public Policy Resources
 - design to serve a public end or objective
 - focus on basic literacies & community empowerment



Sustaining OERs

- Redirection of existing resource allocations
 - eg. OA mandates for grants and programs
 - community outreach for existing agencies
 - eg, NASA
- Support for community-based OER process
 - integration of OER development and use within publicly supported curricula
 - use of OERs in public services and programs

⁻ Stephen Downes, Models for sustainable Open Educational Rsources, ijklo.org/Volume3/IJKLOv3p029-044**Downes**.pdf http://www.downes.ca/presentation/76

⁻ OER Help with Keynote Slides, OER-Forum http://lists.esn.org.za/pipermail/oer-forum/2011-October/thread.html

Software and Service Support

- Software and environment support
 - eg. Public Knowledge Project,
 - Open Journal Systems, Moodle, et
- Service networks and support
 - JISC / CETIS, EdNA, etc.
 - Common Services eFramework



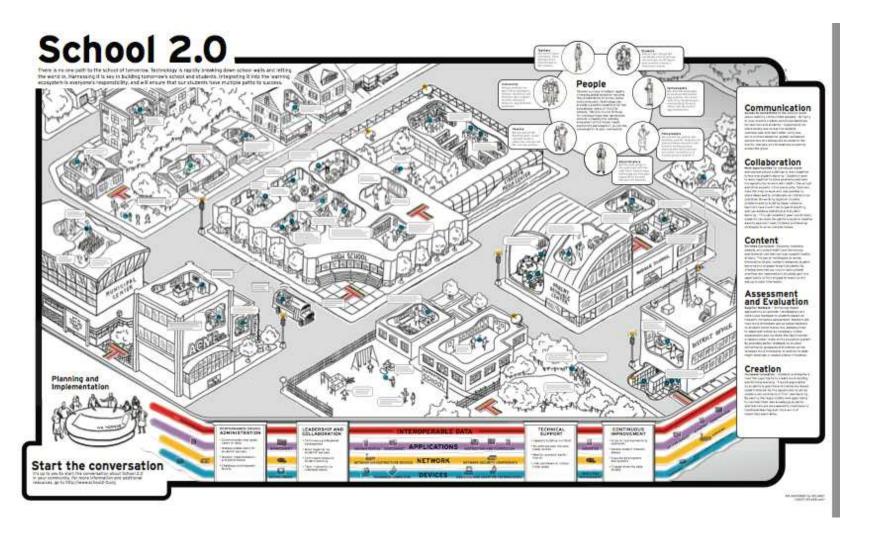
Sustaining Support Systems

- Development and systems research support
- Public adoption of open licensing
 - FLOSS
 - GNU/GPL, BSD, etc
 - Creative Commons
 - directs resources toward multi-sector development
- Community service requirement for commercially sourced software

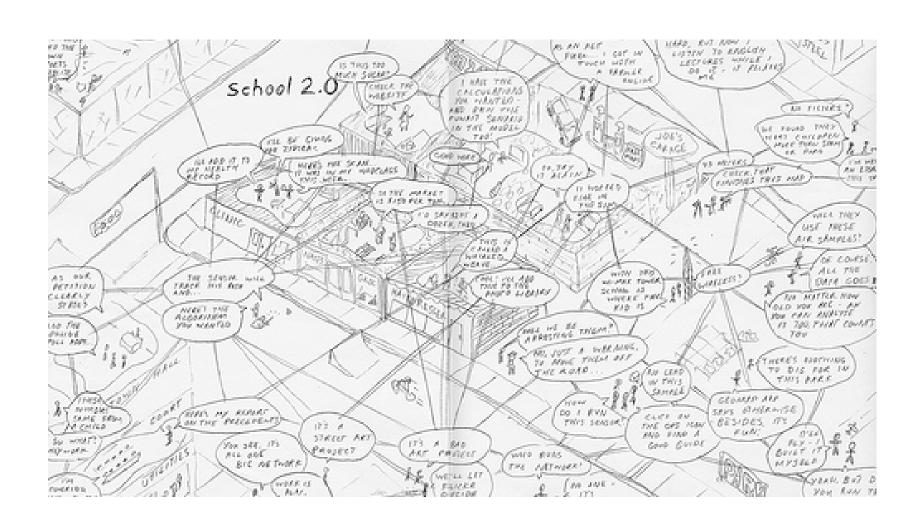
Assessment and Credentialing

- Support for Personal Learning
 - provision of personal learning environments and frameworks
 - promote lifelong learning
 - link to skills database, corporate training registries
 - direct support for employment and funding
 - personal portfolios and credential banks
 - voluntary, self-managed
 - optional identity frameworks

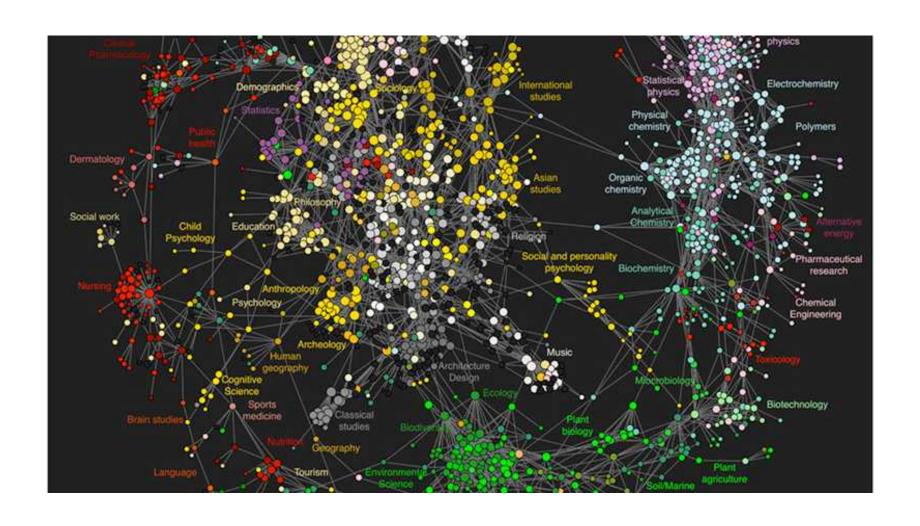
The Old School 2.0



New Models for Schools

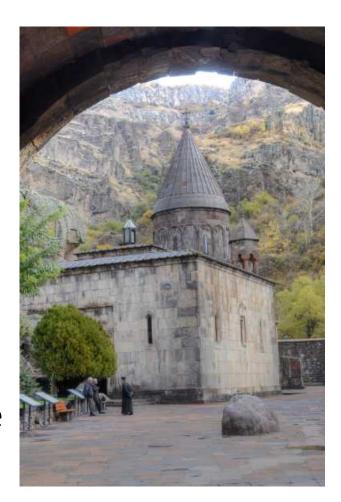


New Roles for Research

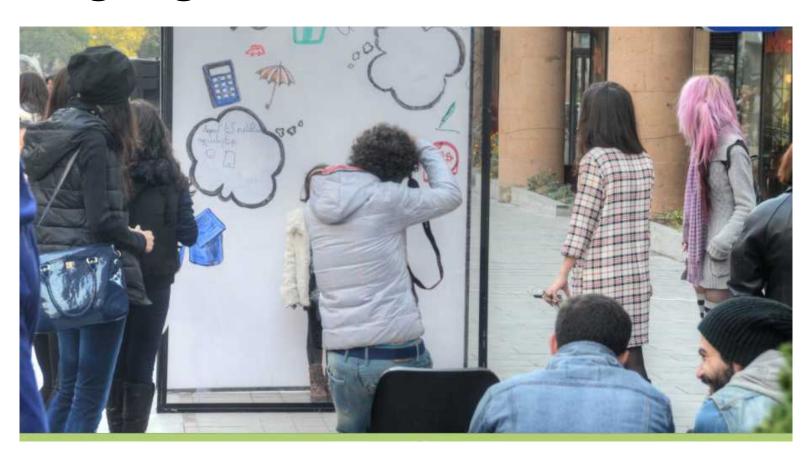


Community = Interactions

- Not simply 'spreading the word'
- Not 'amplification'
- But rather, the creation of our own society, together
 - emergent from the free actions of each of us
 - not based on the ideas of one (or a small number) of individuals



Open communities speak many languages





Stephen Downes http://www.downes.ca