Learning with Open Resources

Stephen Downes

Beirut, Lebanon, November 9, 2016

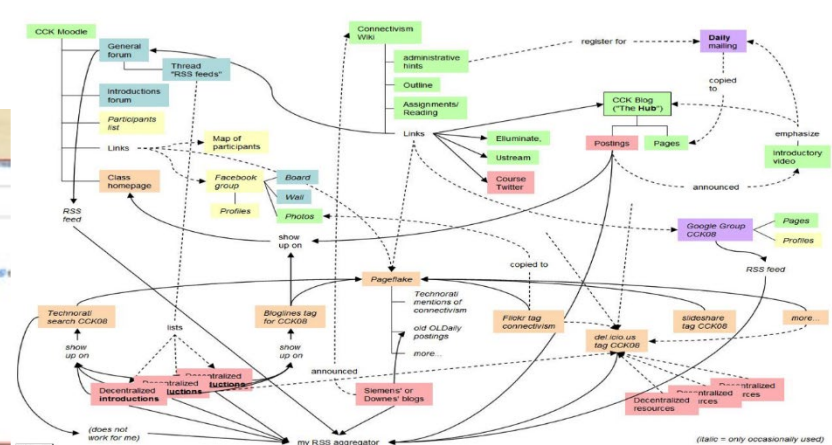# What can we do with open resources?
Some Case Studies

MOOC – CCK08

2008: CCK08
Stephen Downes, George Siemens
The First Massive Open Online Course (MOOC)

http://ltc.umanitoba.ca/wiki/Connectivism_2008

https://sites.google.com/site/themoocguide/3-cck08---the-distributed-course

OIF – MOOC-REL

http://rel2014.mooc.ca/

Plearn – Importance of the Graph

Tweets for a week: Tweets, retweets, replies

Plenkers in Twitter

Kop and Fournier,
Connecting the Dots,
CIDER. 2011

http://www.slideshare.net/Downes/after-moodle
http://www.slideshare.net/Ritakop/kopfourniercanadianinstitutedistanceeducationresearchple
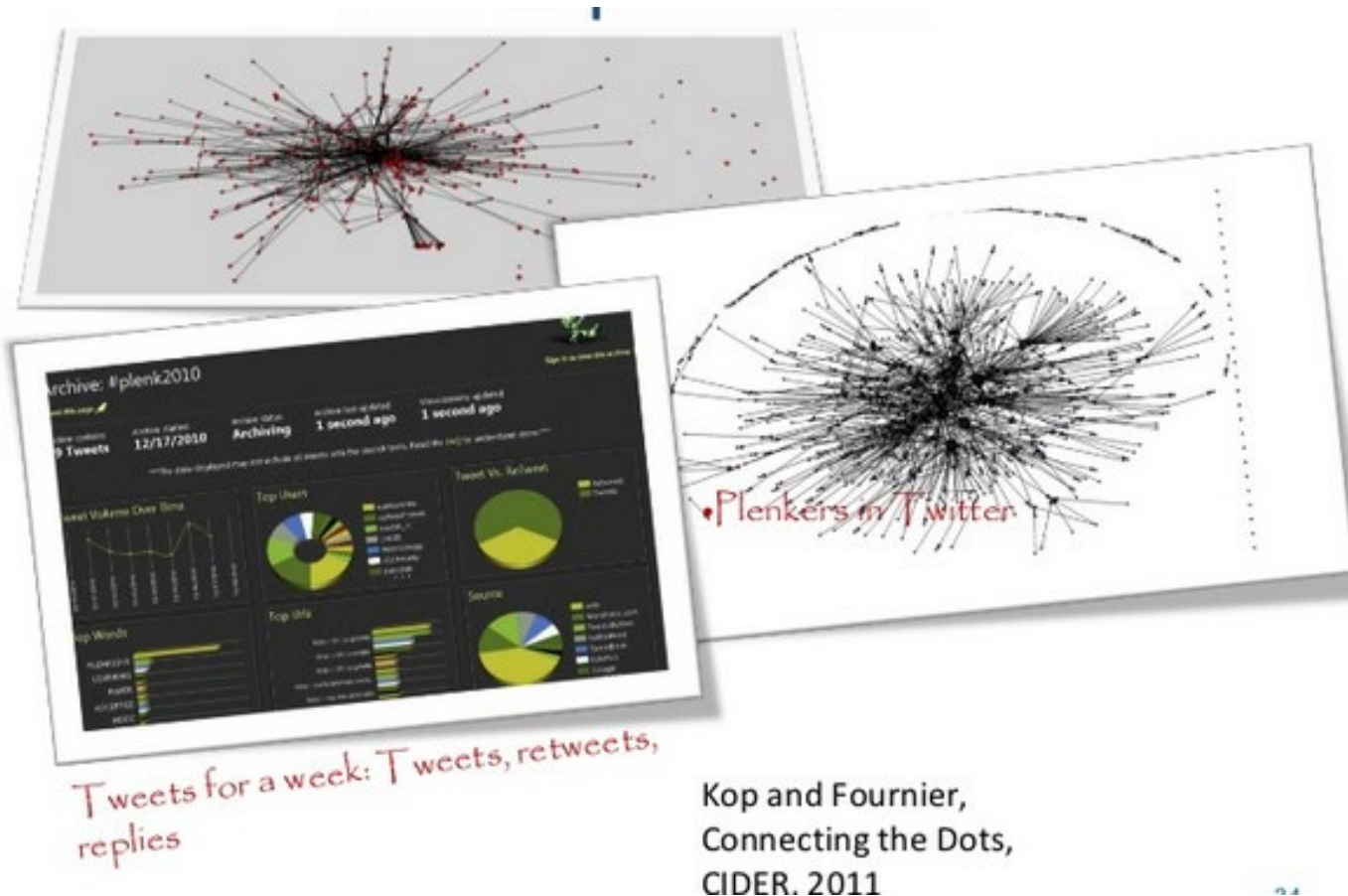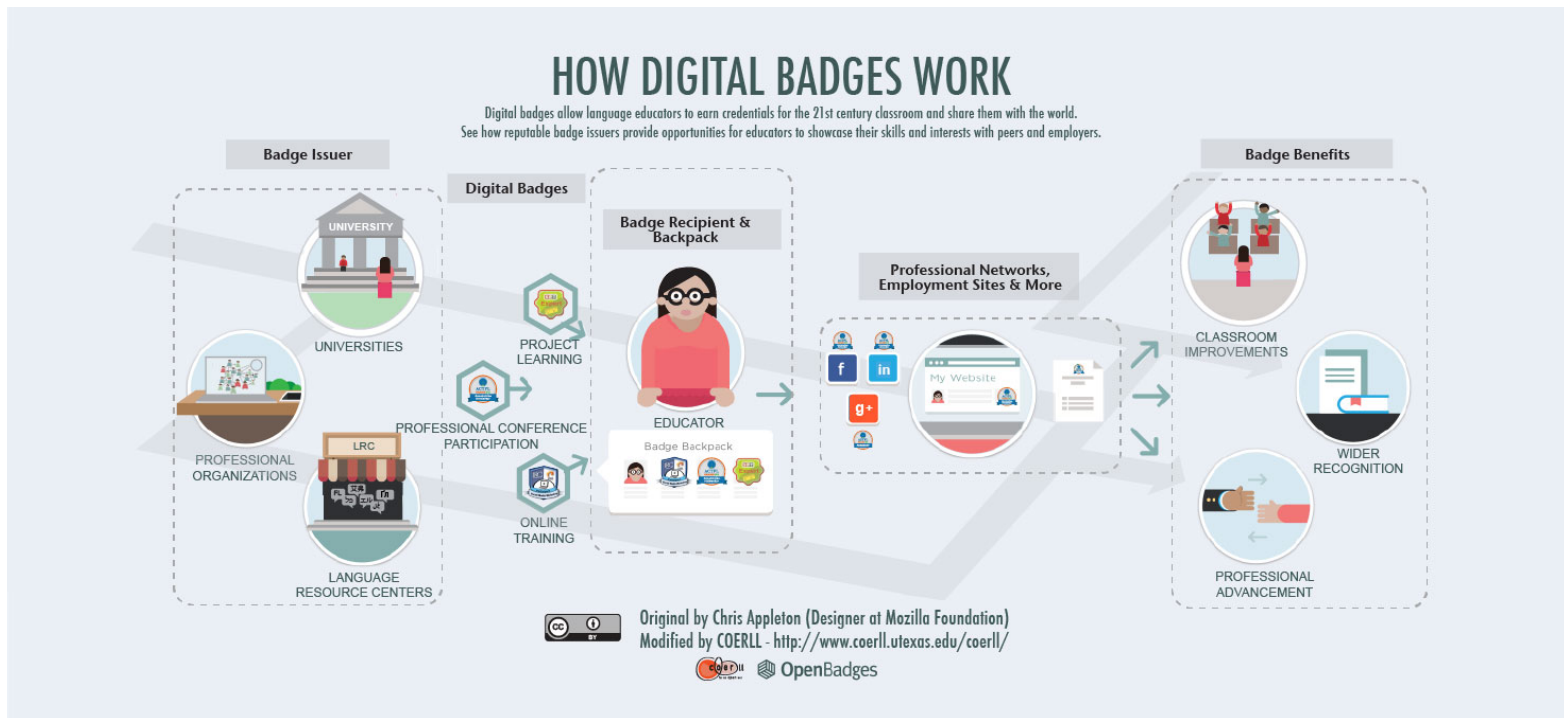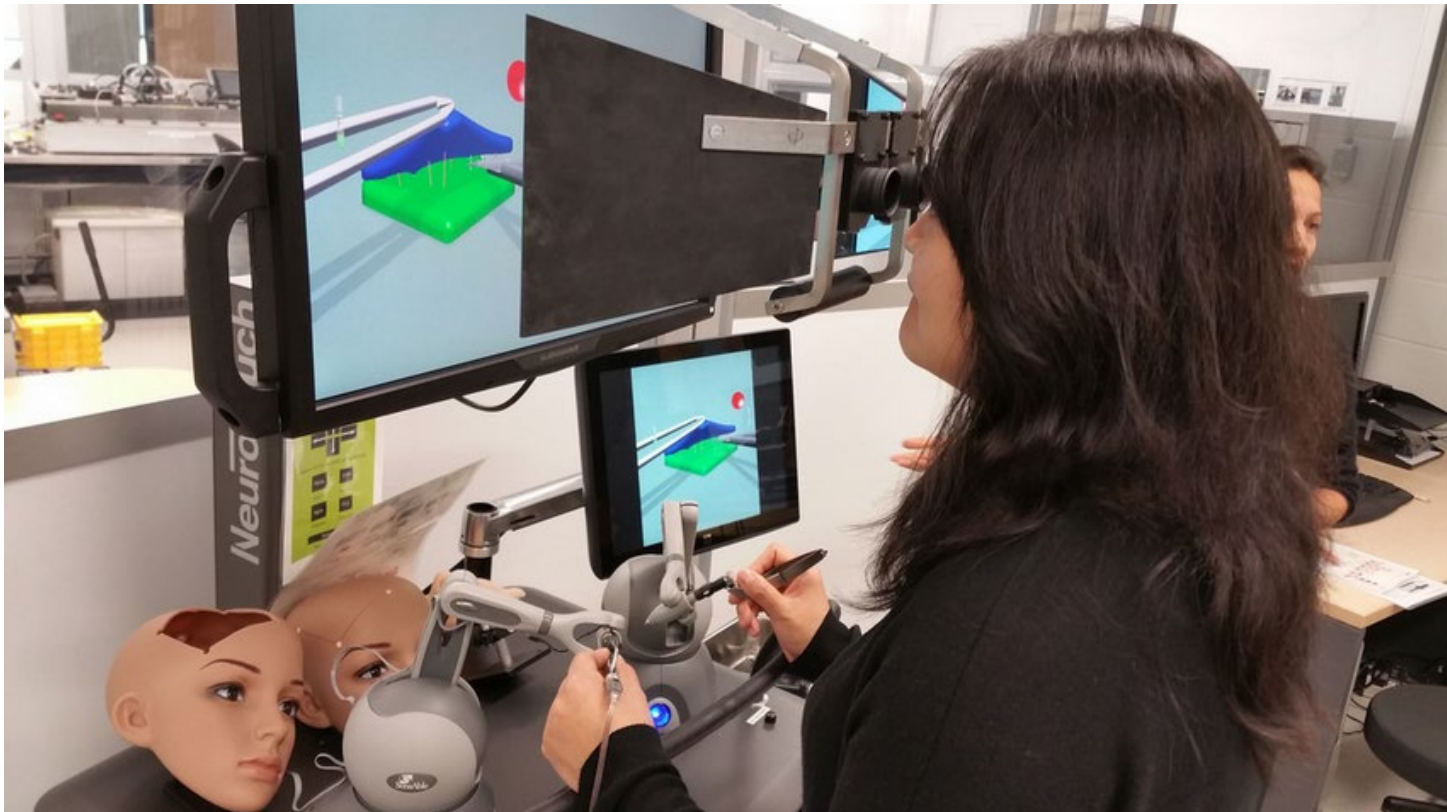
PCO Badges for Learning

ALECSO – Capacity Building

Collecting xAPI from Med Sims

Concierge OMS

TBS Micromissions

The 'Open' in Open Learning

- ## In the beginning… Open Archives

  "If governments ignored publisher lobbying and did the arithmetic properly, they would immediately see that the interests of publicly funded research vastly eclipse those of the research publishing industry." – Stevan Harnad

The Subversive Proposal at 20. Richard Poynder, Open and Shut?
http://poynder.blogspot.ca/2014/06/the-subversive-proposal-at-20.html

Budapest Open Access Initiative, 2001
http://www.budapestopenaccessinitiative.org/background

What are OERs?

"OERs range from textbooks to curricula, syllabi, lecture notes, assignments, tests, projects, audio, video and animation."

OPEN EDUCATIONAL RESOURCES

http://www.unesco.org/new/en/communication-and-information/access-to-knowledge/open-educational-resources/what-are-open-educational-resources-oers/

How OERs (Really) Begin

http://www.khanacademy.org/

Performance Support

Performance

Long Before	Right Before	During	After
Scenario-Based Learning	Planner Refresher Demo	Sidekick Decision Support	After Action Review Reflection Guide

http://www.cognitiveadvisors.com/resources/mobile-performance-support-design-principles

User-Generated OERs

Expert Knowledge Harvesting
- Workflow
- Principles
- Heuristics
- Categories

Single Source Data Meta Tagged

Existing Content

User Generated Content

Performance Support Broker

Working Out Loud

Personal Assistant for Learning
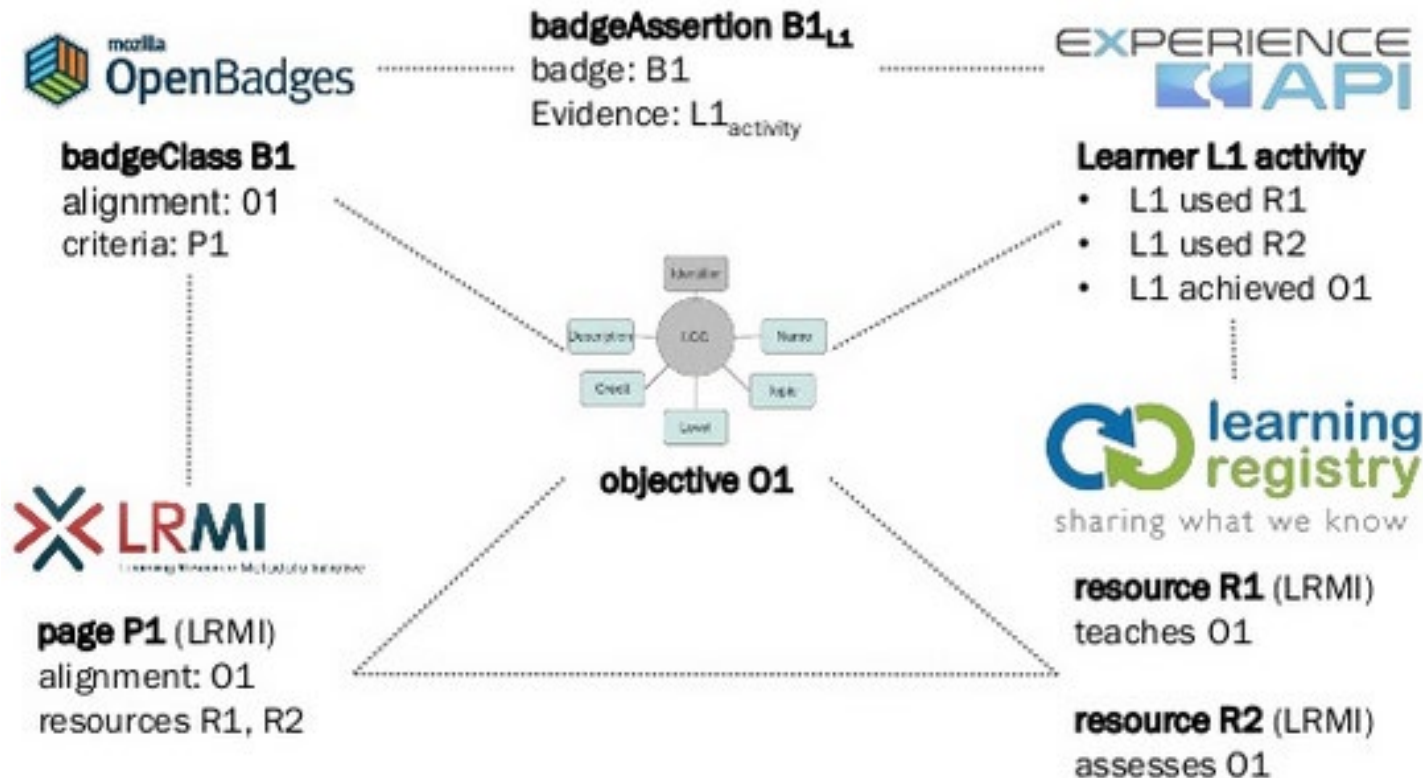
Personal Learning Record

OERs

Portfolio, artifacts and evidence

Badges, certificates, credentials, competencies

Activity Record - LRS

PLR
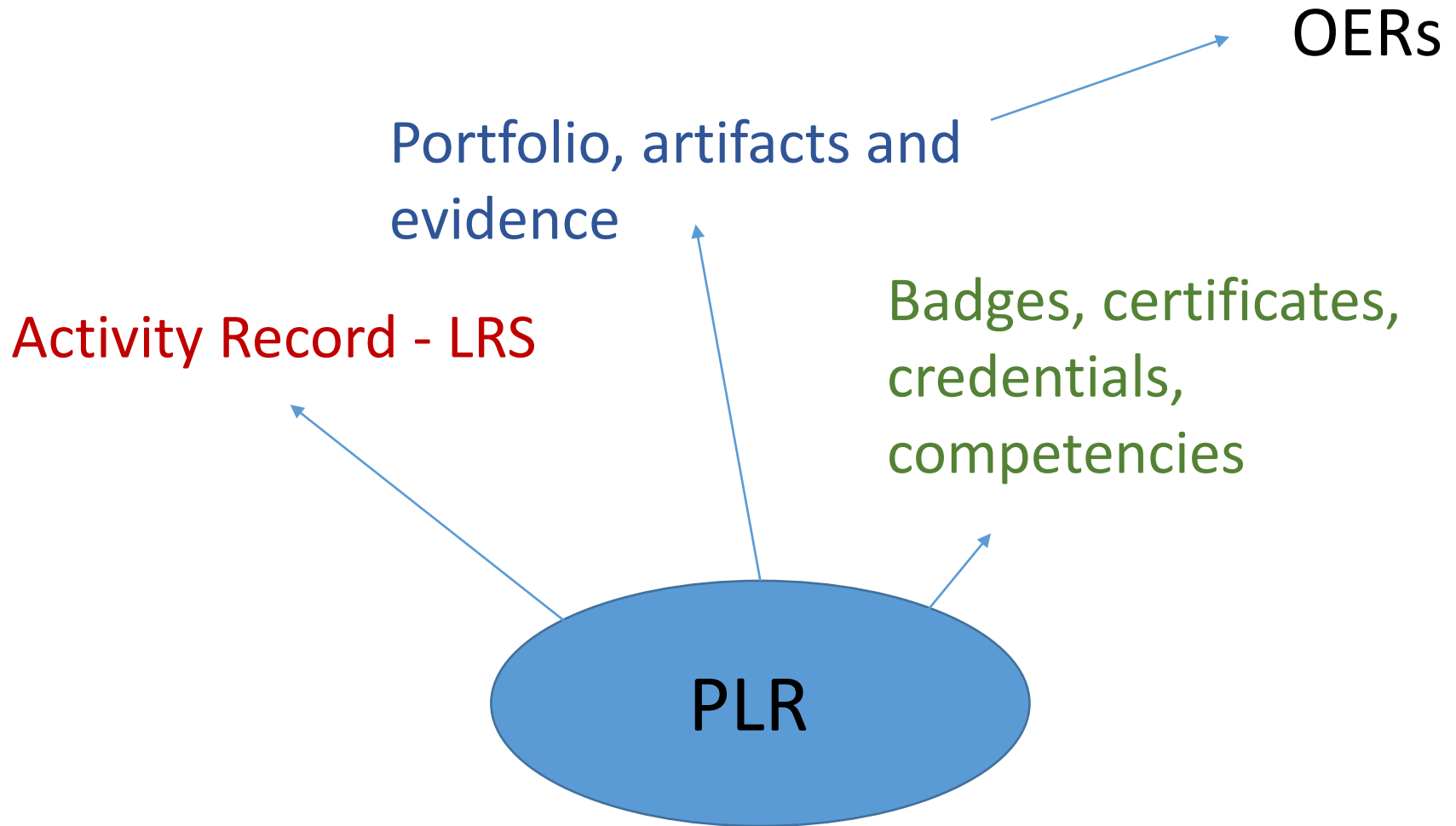
Informal OER Ecosystem

Creating Live OERs

The Open Virus

Martin Weller:

"It is no coincidence that many of the MOOC pioneers had also been early adopters of open access, active bloggers, and advocates of open licenses. Creating open courses seemed the next logical step
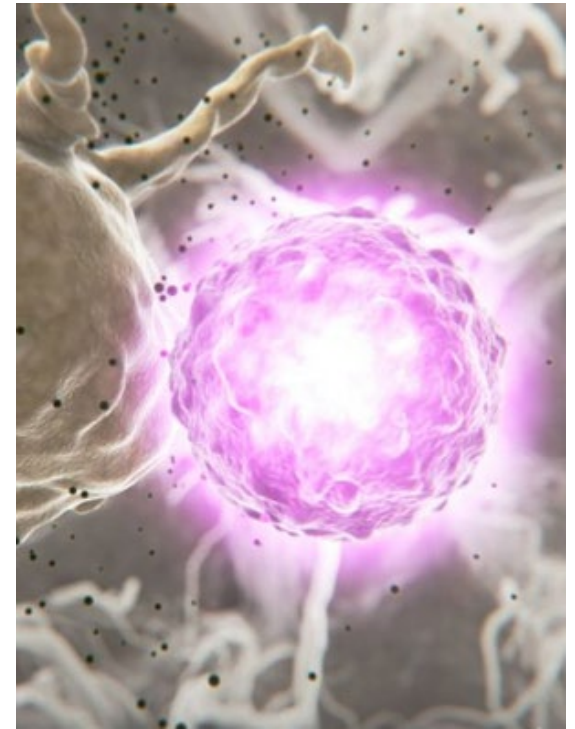
The Open Virus, Martin Weller, The Ed Techie
http://nogoodreason.typepad.co.uk/no_good_reason/2014/05/the-open-virus.html

The Open Research Network

Beginnings of a proposal:

"The real value of repositories is when they are interconnected to provide unified access to research materials for researchers around the world."

Aligning Repository Networks Meeting 2014, Confederation of Open Access Repositories (COAR)
https://www.coar-repositories.org/files/Aligning-Repository-Networks-Meeting-Report.pdf

The Open Learning Network

Bridging the LMS and the PLE:

> "The OLN is built on web services from the ground up. This facilitates authentication federation and data portability. It also allows for granular authentication and rights management within and across OLN modules."

Jon Mott. Envisioning the Post-LMS Era: The Open Learning Network, Educause Review.
http://www.educause.edu/ero/article/envisioning-post-lms-era-open-learning-network
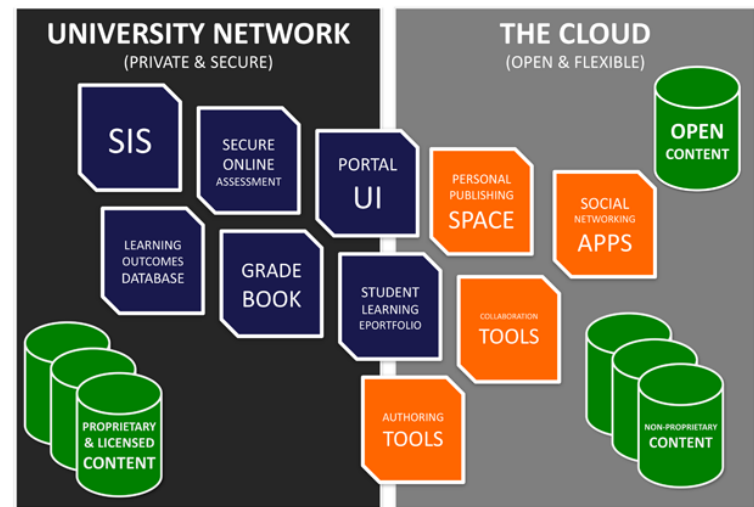
Social Networks

Why nobody is using the corporate social network

"Employees are smart—they won't waste their time on stunts that are purely for show. Think about the types of engagements you want to have in digital channels—with whom, about what, and when."

Corporate Social Networks Just Aren't That Popular

	Used by many employees	Used by some employees	Used by a few employees	Plans to deploy	No plans to deploy
COLLABORATION PLATFORM (IBM Notes, Jive, SharePoint)	36%	23%	5%	18%	18%
ENTERPRISE SOCIAL NETWORK (Chatter, IBM, Connections, Socialcast, tibbr, Yammer)	25	20	14	20	21
COMMUNITY FORUMS (Jive, Lithium, Telligent)	20	27	11	9	33
EMPLOYEE ADVOCACY (Dynamic Signal, Influitive, SocialChorus)	9	6	3	16	66

SOURCE ALTIMETER GROUP SURVEY OF 55 COMPANIES WITH MORE THAN 250 EMPLOYEES (2014)   © HBR.ORG

Charlene Li, Harvard Business Review
https://hbr.org/2015/04/why-no-one-uses-the-corporate-social-network

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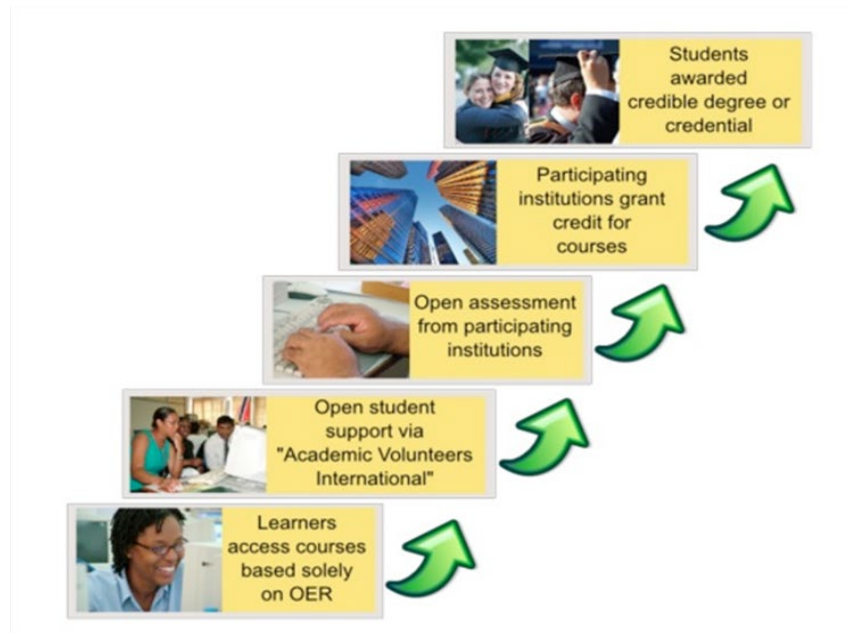
Taylor, J.C. 2007. Open courseware futures: Creating a parallel universe. e-Journal of Instructional Science and Technology (e-JIST), Vol 10, No. 1. Online: http://www.ascilite.org.au/ajet/e-jist/docs/vol10_no1/papers/full_papers/taylorj.htm

Open Access

- Originated in Open University, Athabasca University
- No formal requirements for course admission
- Issues: preparedness, completion

http://www.athabascau.ca/

Open Access Network

We ask for an annual institutional/ library payment.

We encourage partnerships between libraries, scholarly societies, university presses, and others.

These mission-driven alliances develop infrastructure and best practices needed to support an open and dynamic scholarly information ecosystem.

http://www.slideshare.net/knconsultants/open-access-network-plan-b-dlf-forum-2015

Open Access Social Network

They Loved Your G.P.A. Then They Saw Your Tweets

"Students' social media and digital footprint can sometimes play a role in the admissions process," says Christine Brown, the executive director of K-12 and college prep programs at Kaplan Test Prep

Natasha Singer, New York Times
http://www.nytimes.com/2013/11/10/business/they-loved-your-gpa-then-they-saw-your-tweets.html
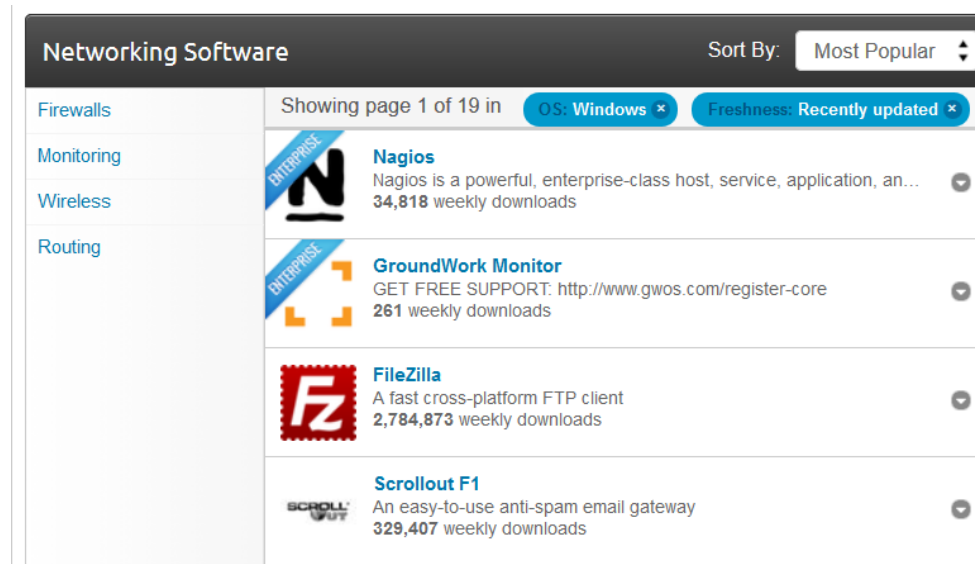
Open Source

Open Source Definition

"Open source software is software that can be freely used, changed, and shared (in modified or unmodified form) by anyone. Open source software is made by many people, and distributed under licenses that comply with the Open Source Definition."

http://opensource.org/

Open Source Network

- SourceForge http://sourceforge.net/directory/system-administration/networking/os:windows/freshness:recently-updated/

- GitHub https://github.com/opensource-socialnetwork/opensource-socialnetwork

Open Source Social Network

eXo and Slack

"eXo Platform is an out-of-the-box social intranet solution. Rich collaboration features such as wikis, forums, calendars and documents are smartly integrated around activity streams, social networking and workspaces."

http://www.exoplatform.com/

Is Slack the new LMS?

"Learning is constructed by what activities the students carry out; learning is about what they do, not about what we teachers do."

• Elgg - https://elgg.org/

Mathias Emrose, Medium | The Synapse
https://medium.com/synapse/is-slack-the-new-lms-7d1c15ff964f

Open Content

- Originally thought of as similar to open source
- Creative Commons licenses – by, nc, sa, nd clauses
- Open access versus open use

Open Content Network

- ## SAP Community Network

    "In the b1411 release, SuccessFactors introduced the *Open Content Network* for the SuccessFactors Learning product. This extension of the LMS allows for integration with a few select MOOC providers to incorporate a vendor's courses into the organization's LMS. This can allow organizations to present online learning courses from MOOC providers to employees within the LMS directly."

    http://scn.sap.com/community/erp/hcm/blog/2015/03/05/craving-more-content-take-a-bite-out-of-the-open-content-network-in-successfactors-learning

- ## EMMA – European MOOC Aggregator -
    http://platform.europeanmoocs.eu/

Open Content Social Network

- Known

https://withknown.com/
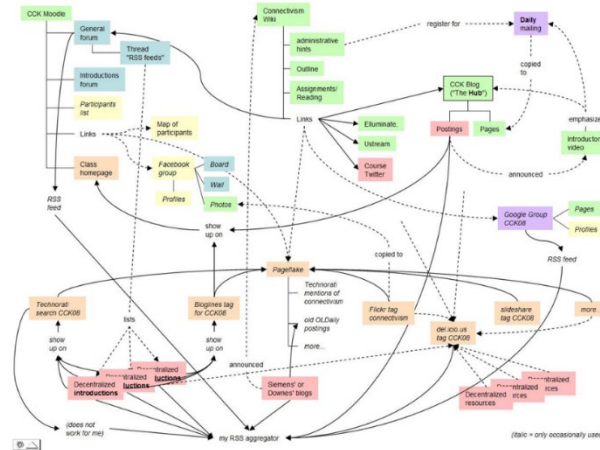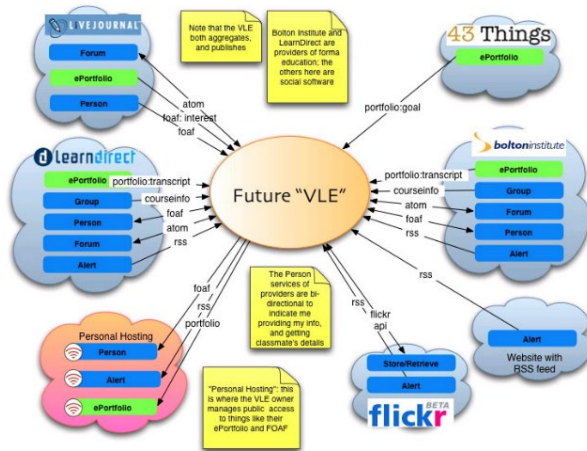
Open Educational Resources

- ## UNESCO Definition

  "Open Educational Resources (**OERs**) are any type of educational materials that are in the public domain or introduced with an open license. The nature of these open materials means that anyone can legally and freely copy, use, adapt and re-share them."

OER Network

- Support for community-based OER process
  - integration of OER development and use within publicly supported curricula
  - use of OERs in public services and progra[...]

- OER Commons https://www.oercommons.org/

- EdWeb - http://home.edweb.net/

- Utopia

  Reading and networking will become one and the same thing "for instance, when a document in Utopia is opened, "a sidebar opens up on the right-hand side and fills with relevant data from external databases and services like Mendeley, SHERPA/RoMEO, and Wikipedia." http://utopiadocs.com

OER Social Network

"Colearning" - Collaborative networks for creating, sharing and reusing OER through social media... OpenScout

Alexandra Okada,
http://presentations.ocwconsortium.org/uk2012_224_okada_collaborative_networks/

Open Instruction

- "Open Instruction – here we refer to the 'lecture' portion of open learning, or rather, the internet analogue of the original lecture described at the top of this post, a series or sequence of activities undertaken by experts…" http://p2pfoundation.net/Open_Instruction

- Early open instruction – the Couros course, the Wiley Wiki

- MOOCs as open instruction

- Elements of open instruction:
  - Resources
  - Lectures
  - Activities and projects

Open Instruction Network

- ## Open Teaching

  "The Downes-Siemens course has become a landmark in the small but growing push toward 'open teaching.'"

  Marc Parry, Chronicle of Higher Education
  http://chronicle.com/article/Open-Teaching-When-the/124170/
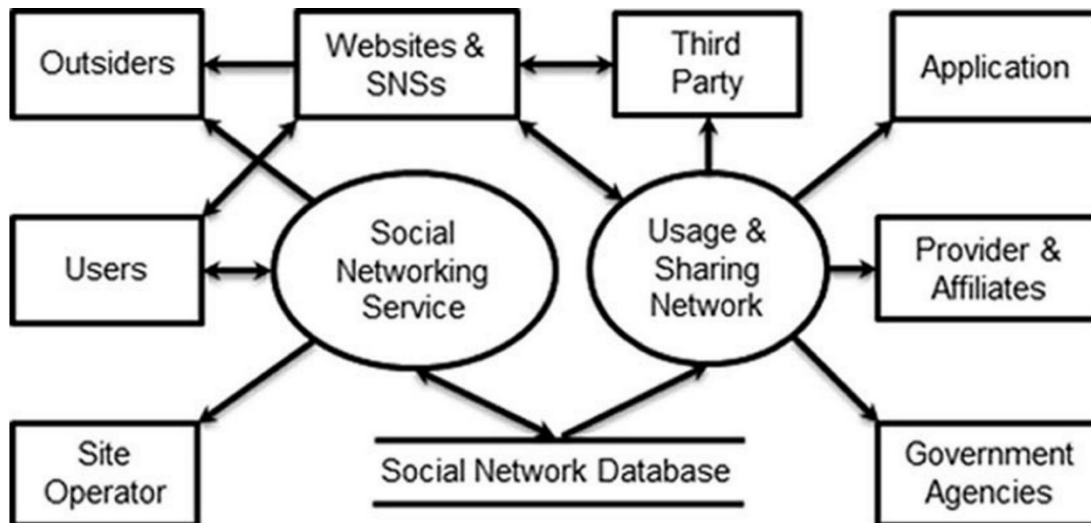

Alec Couros - Open Teaching - Network Sherpa
The concept of "network sherpa" projects the role of teacher as one who knows "the terrain", guides students, but who is also led by student interests, objectives, and knowledge.
https://www.flickr.com/photos/courosa/3293199214/in/photostream/

Open Instruction Social Network?

- Examples are hard to come by
- See, though, this example in health services

Jingquan Li, A Privacy Preservation Model for Health-Related Social Networking Sites
http://www.jmir.org/2015/7/e168/

Open Design

- 'Learning Design' = the organization and structure of a course – eg., IMS LD
  - Open design – enabling participants to create their own organization and structure
  - Example: touring a city vs being taken on a tour
  - The course as 'environment' rather than 'book'
  - Open design in MOOCs

Learning Design: A Handbook on Modelling and Delivering Networked Education, By Rob Koper, Colin Tattersall (2005!)
http://jime.open.ac.uk/article/download/2005-18/262/

Open Educational Practices

- ...the Open Educational Practices movement, developed by Germany's Ulf-Daniel Ehlers and the UK's Gráinne Conole...

- Also: Open Educational Practices and Resources

  "It is important to note that current educational practices are decisive in determining whether – and how – digital educational content, tools and services will be deployed and utilised. If the prevailing practice of teacher-centred knowledge transfer remains intact, then OER will have little effect on making a difference in teaching and learning."

Open Learning Design Network

- Gráinne Conole - Cloudworks: Social networking for learning design
  - "Traditionally design has been an implicit process, how do we shift to a process of design that is more explicit and hence shareable? Different representations of design have different values and purposes, which representations are appropriate and when?"

- Engeström (2005) – "The term 'social networking' makes little sense if we leave out the objects that mediate the ties between people… The fallacy is to think that social networks are just made up of people. They're not; social networks consist of people who are connected by a shared object."

http://www.ascilite.org.au/conferences/melbourne08/procs/conole.pdf

Open Learning Design Social Network

- ## Connected Learning Research Network

    "This model is based on evidence that the most resilient, adaptive, and effective learning involves individual interest as well as social support to overcome adversity and provide recognition."

    http://dmlhub.net/wp-content/uploads/files/Connected_Learning_report.pdf

INTERESTS

CONNECTED LEARNING

ACADEMIC

PEER CULTURE
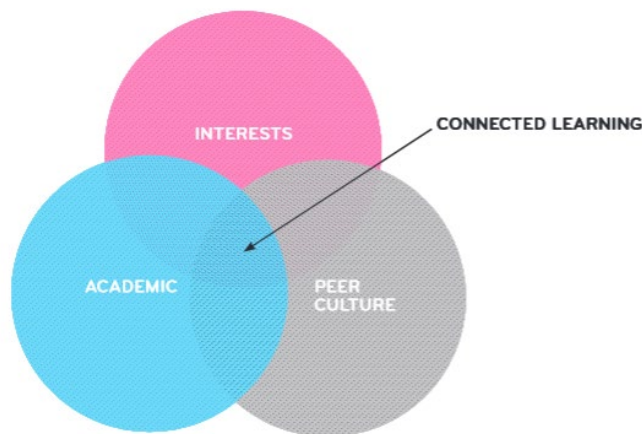
"Connected learning centers on an equity agenda of deploying new media to reach and enable youth who otherwise lack access to opportunity."

http://clrn.dmlhub.net/

Open Credentials

- The argument for closed credentials

- Badges?

- 'You are what you do'
    - Privacy and security considerations

Open Credentials Network

- Open Badges

    "Collect badges from multiple sources, online and off, into a single backpack. Then display your skills and achievements on social networking profiles, job sites, websites and more."

    "Open Badges are information-rich. Each badge has important data built in that links back to the issuer, criteria and verifying evidence."

http://openbadges.org/

Open Credentials Social Network?

Open Assessment?

- What is assessment? - Assessment Design Principles

    "Many projects are enhancing the validity of their badges by having some expert other judge work before badges are awarded. This expert other could be a computer or a human. The projects feel that expert judgment gives the badge more weight."

    http://iudpd.indiana.edu/Assessment+Design+Principles#

- Learning Outcomes Assessment Communities

    "groups, that usually meet in person, that you can join and network about learning outcomes and assessments…"

    http://www.learningoutcomeassessment.org/LOAcommunities.htm

Open Assessment Networks?

- The paucity of 'learning cont
- Assessment - criteria and me
  - Content based – formal learni
  - Task based – informal learning
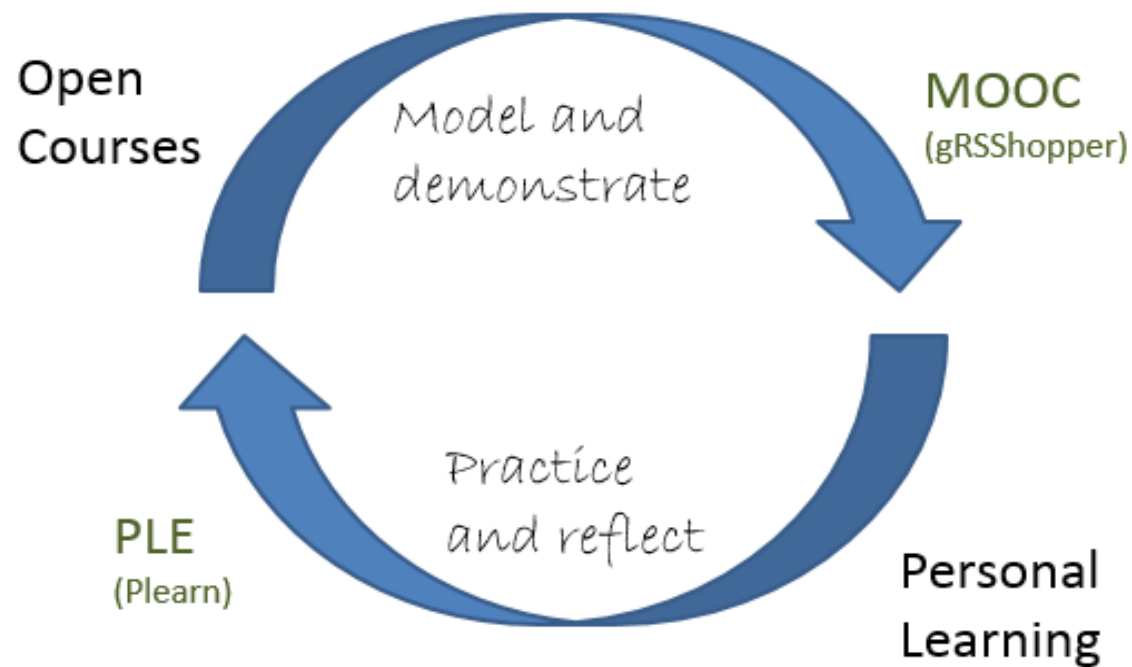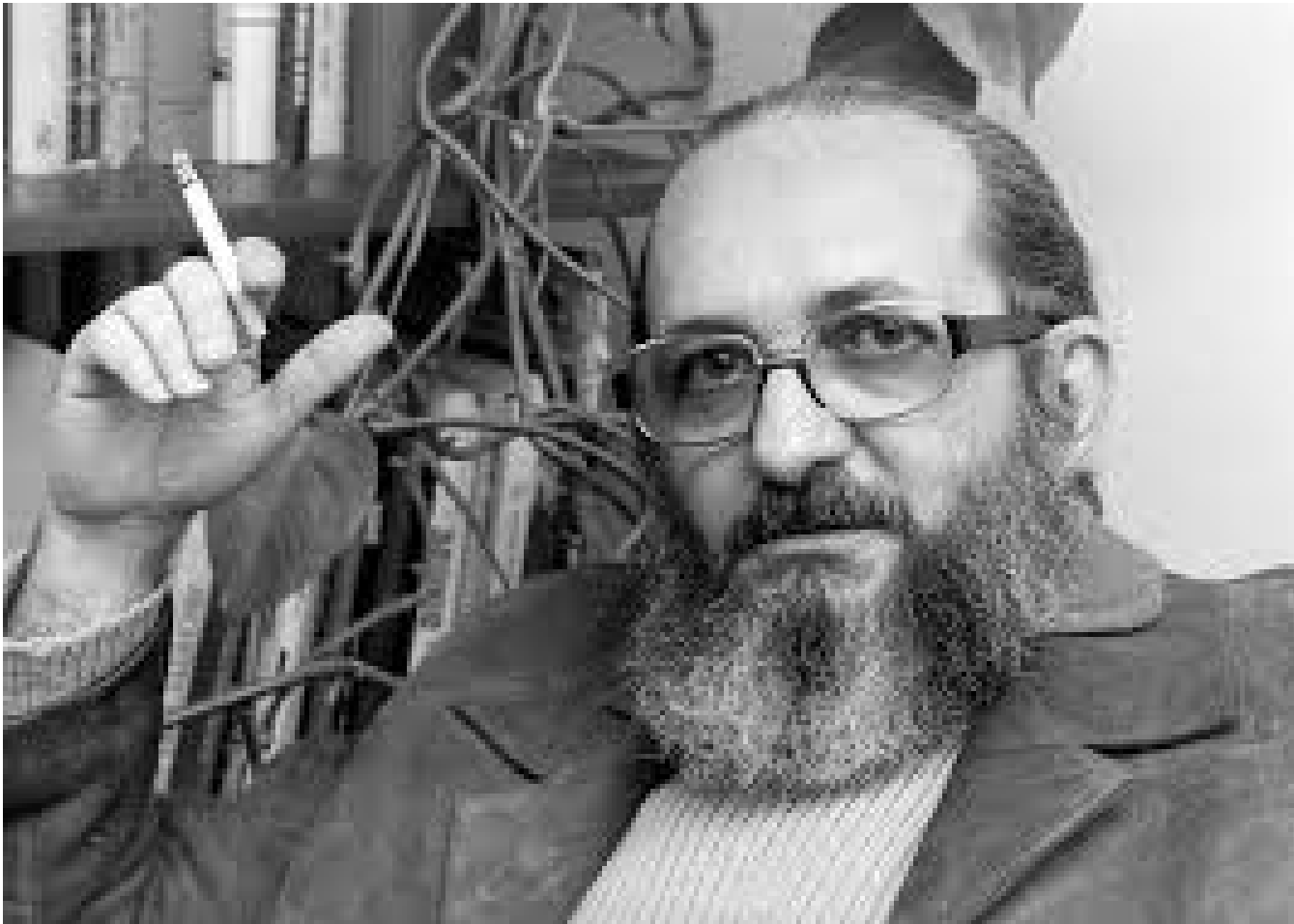- "You decide what counts as s
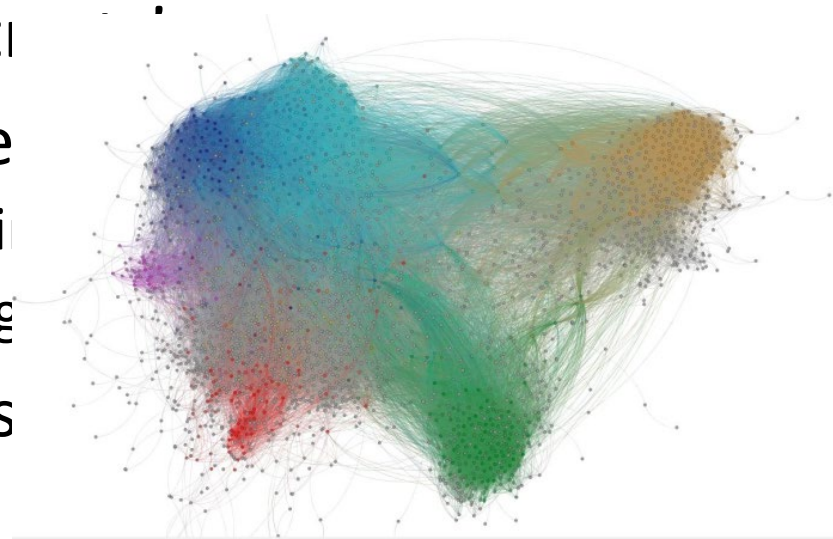
Open Assessments Social Network?

- Will what we do in social networks become the 'assessment' of the 21st century?
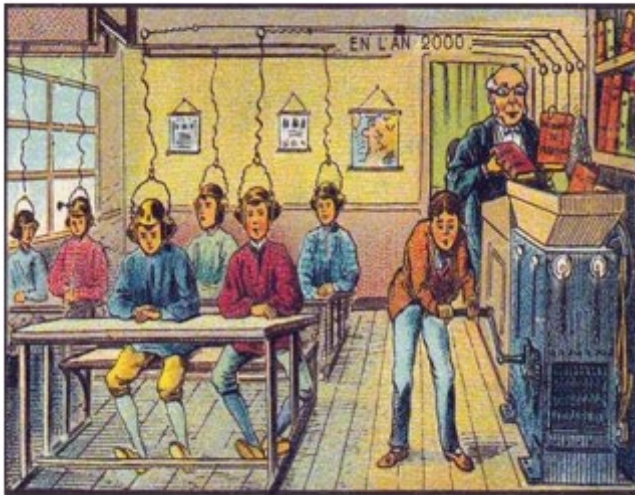
Open Learning Theory

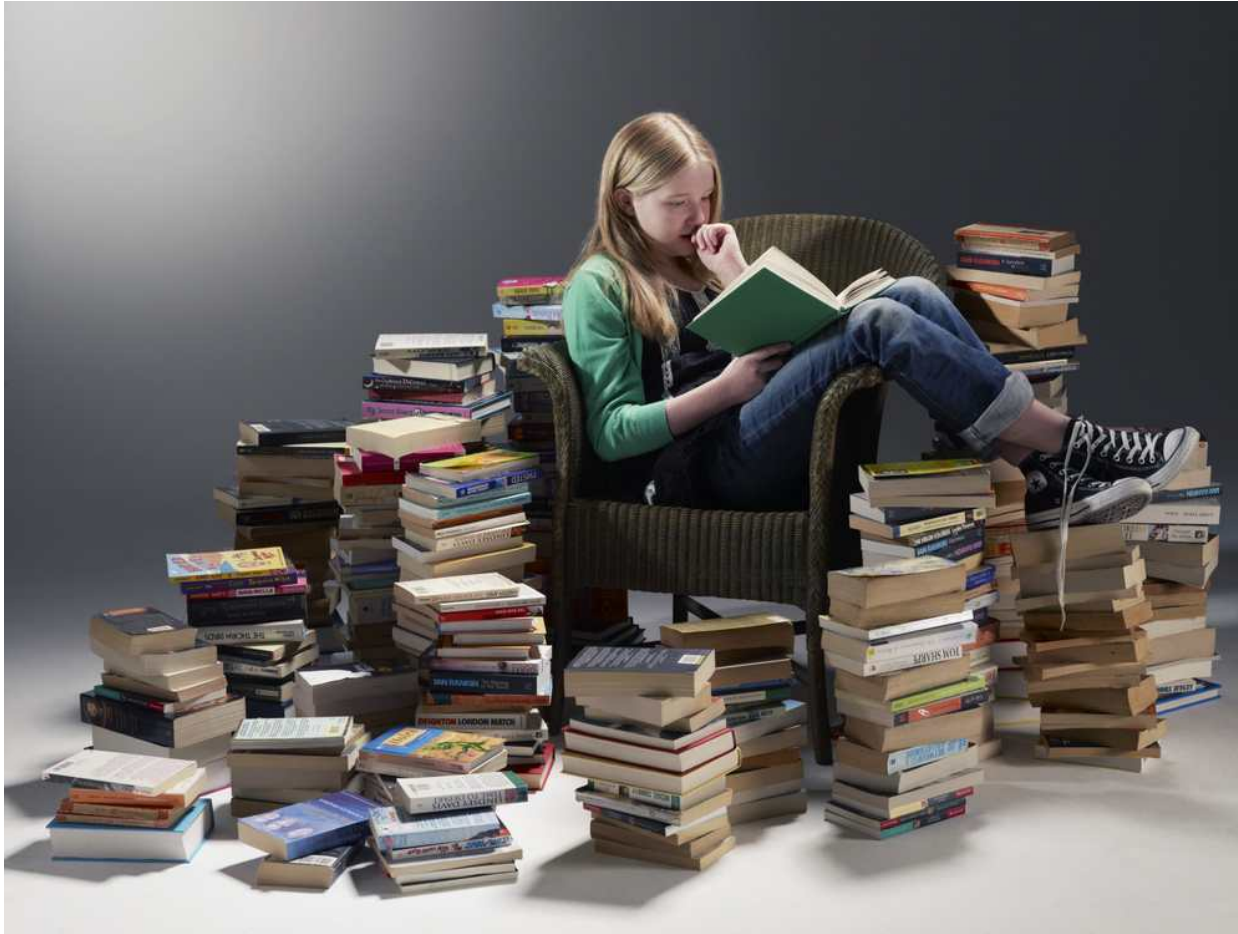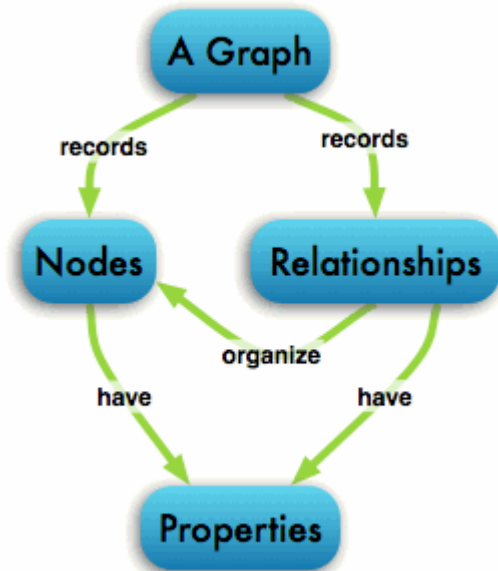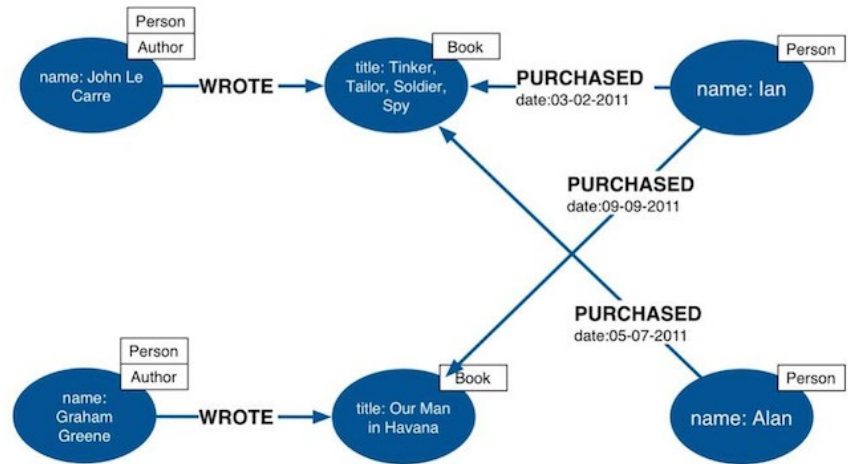# Understanding Knowledge

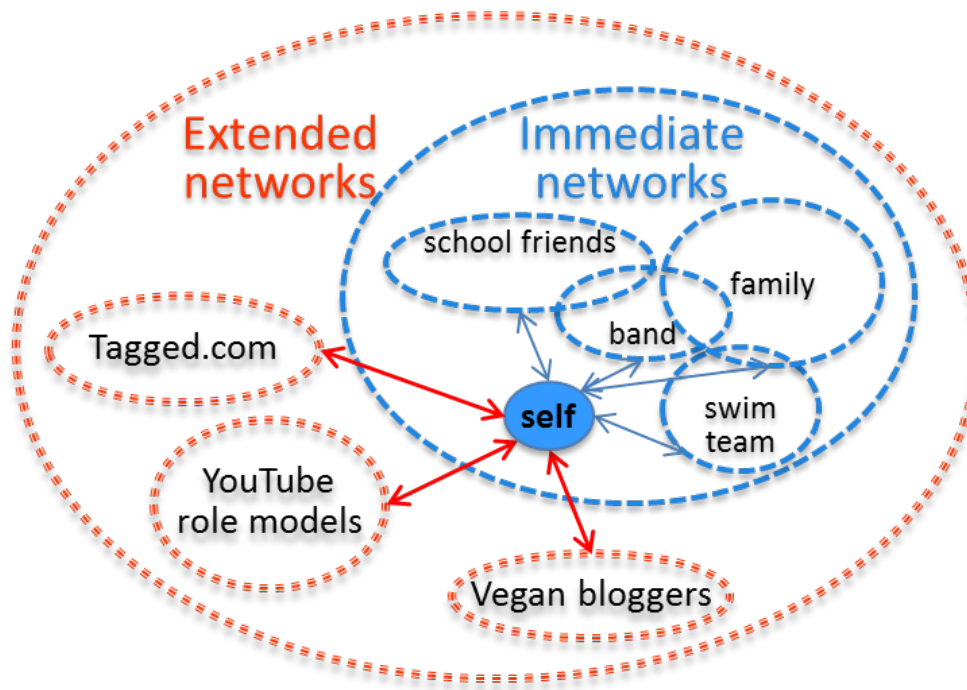# Knowing a Pile of Facts?

Image: http://www.rightattitudes.com/
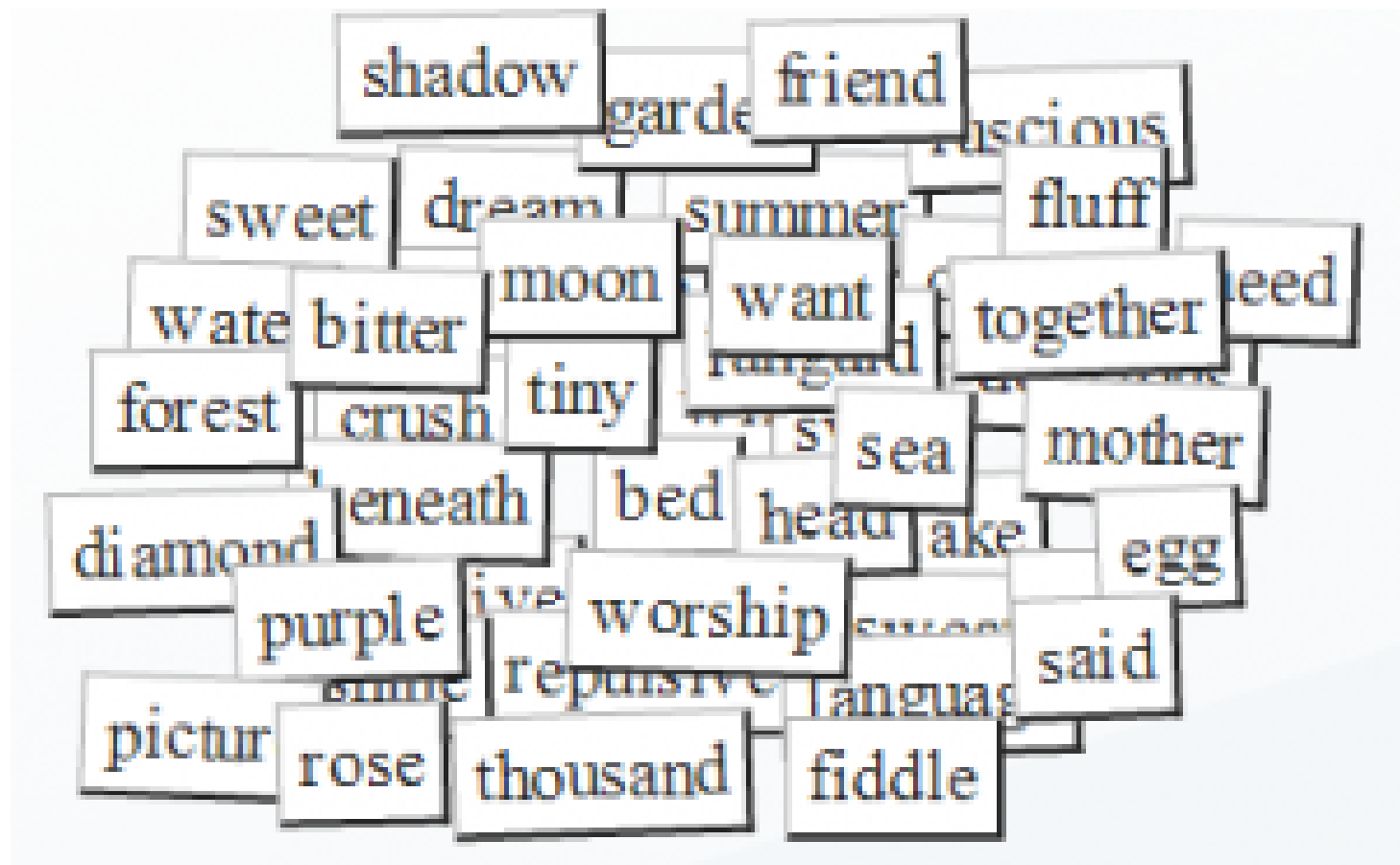
The Graph Database

Learning in Context

Informal learning opportunities via extended networks
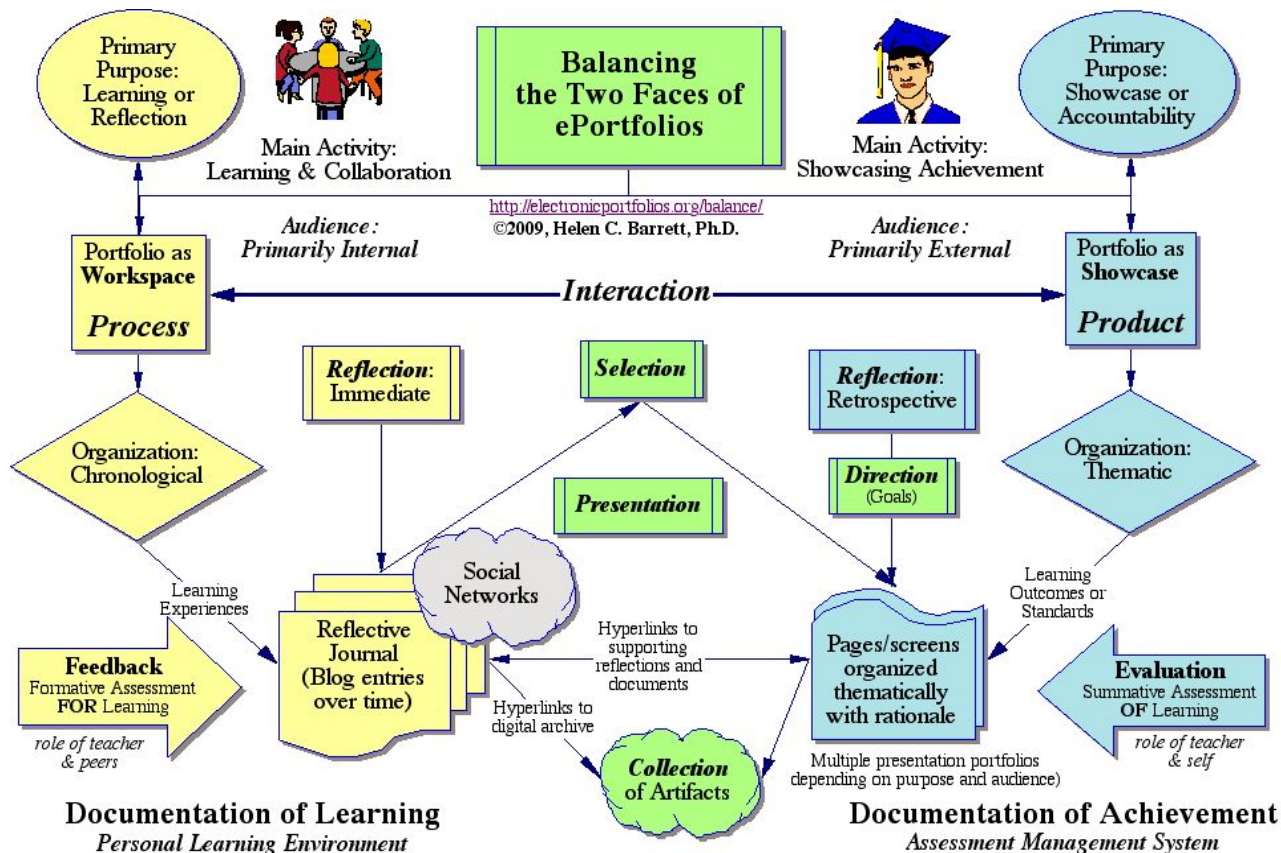
Task-Focused
Network-based

Think of OERs as words in a conversation

It forces us to think about how they can be used.

Consider how words are used in education.
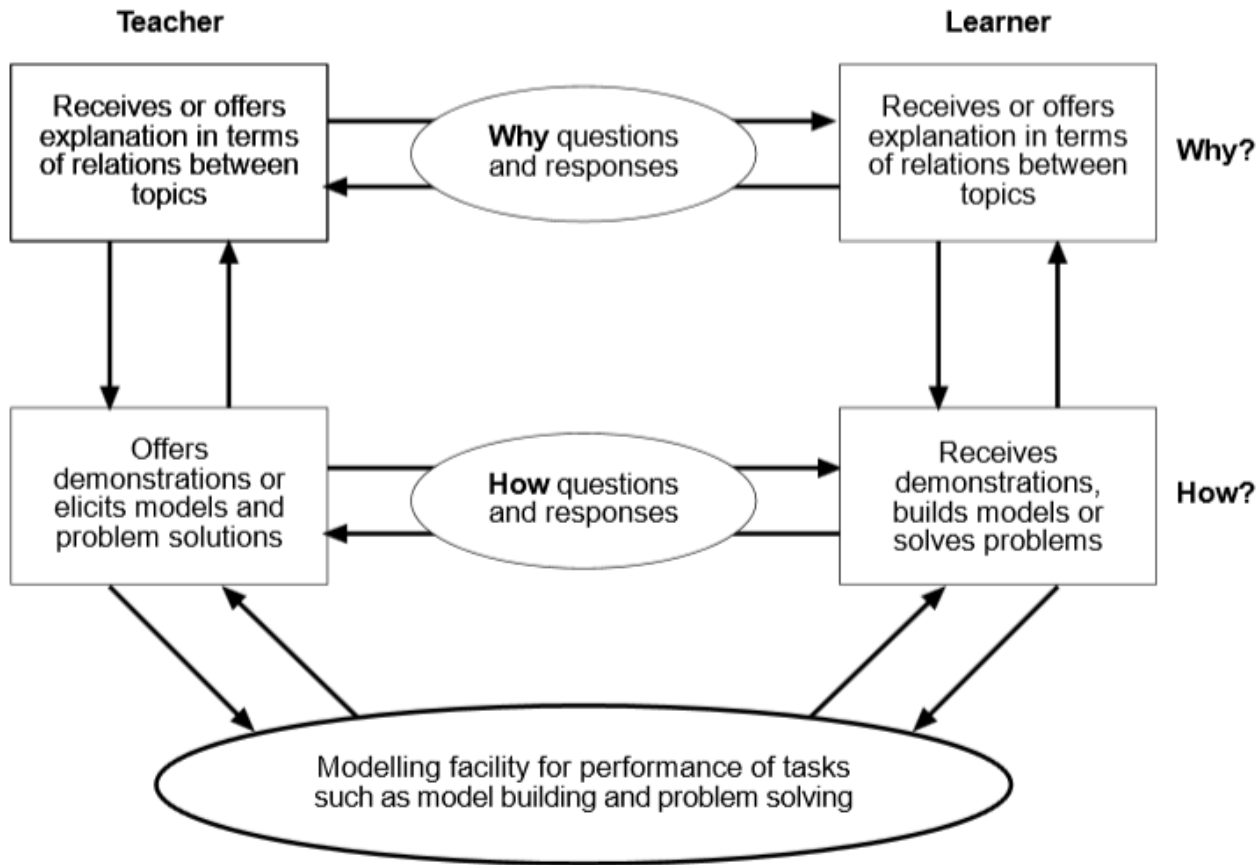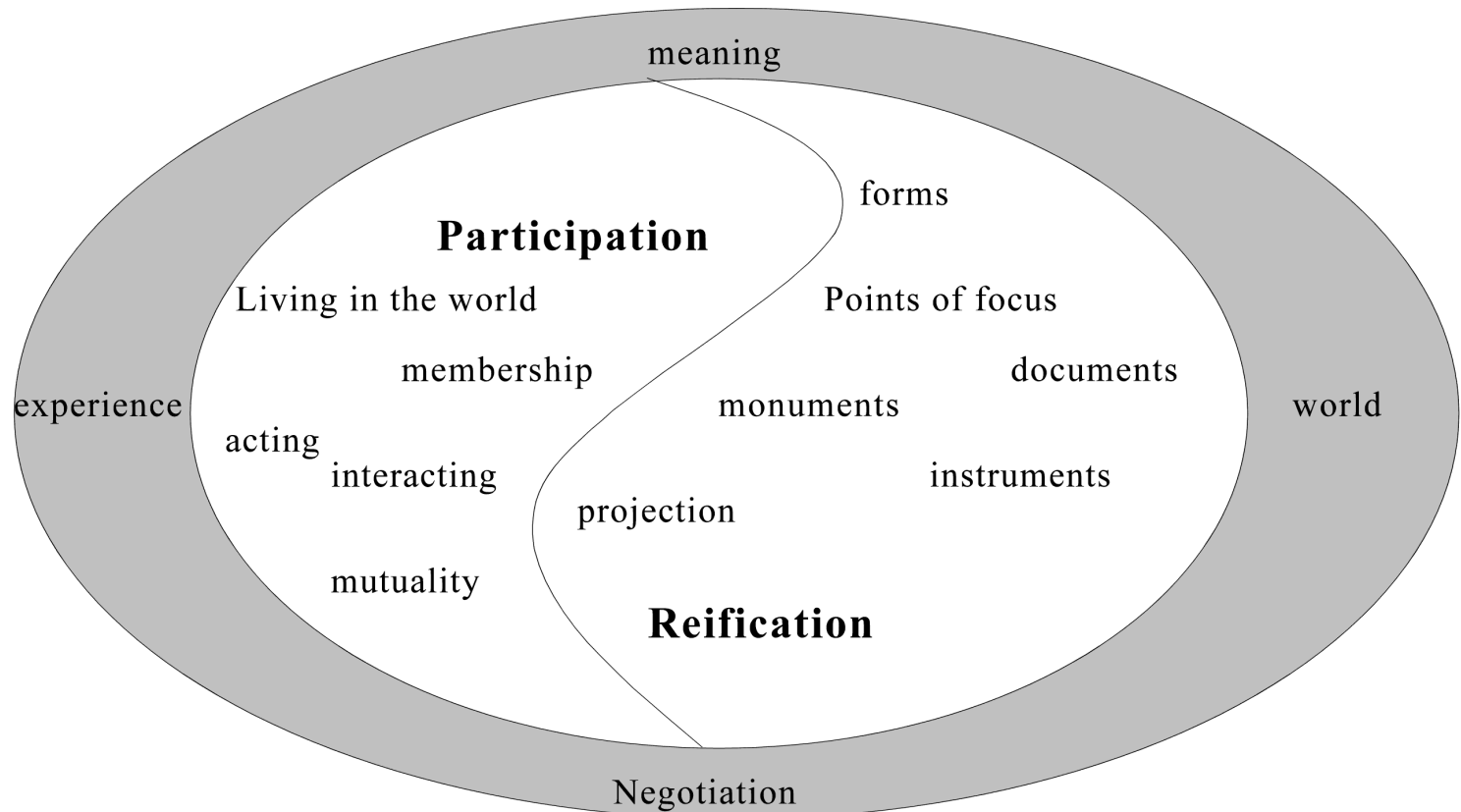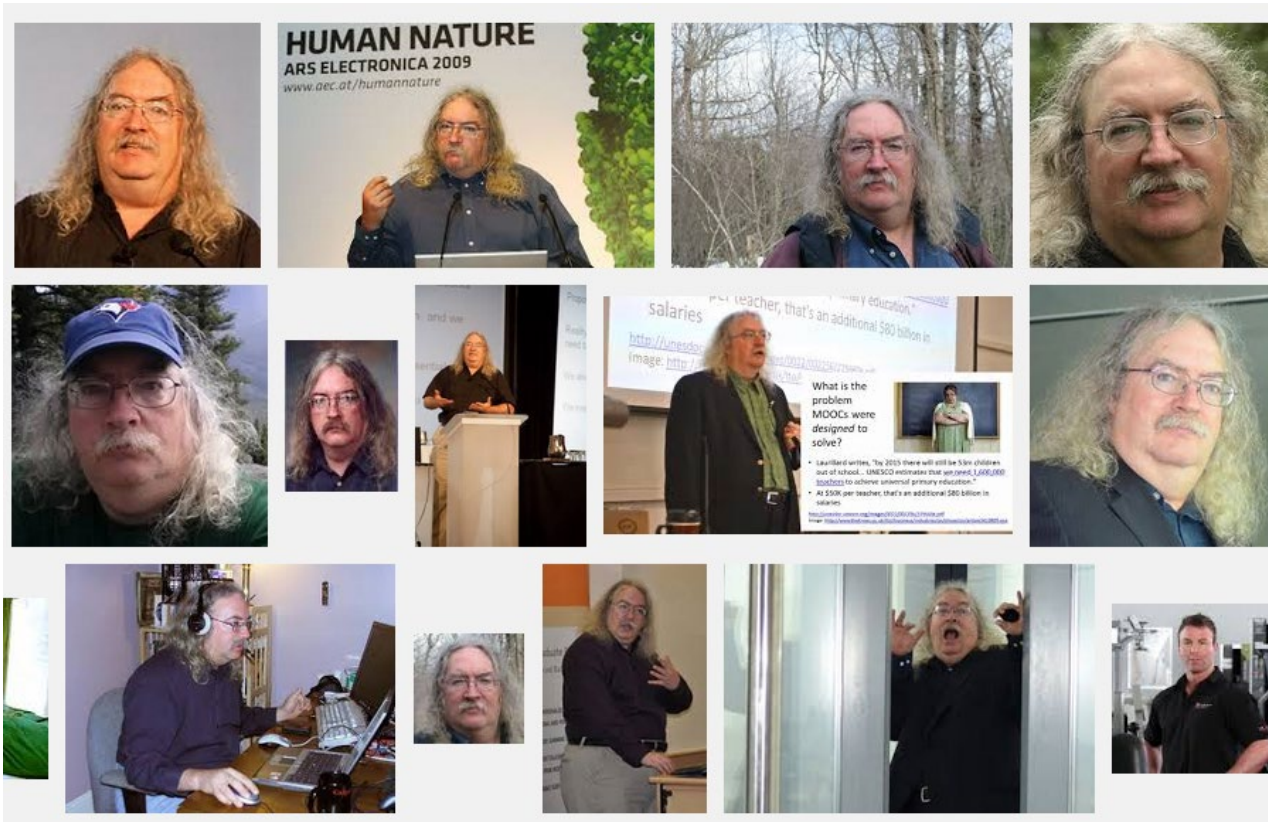
Pask: Conversational Theory

Figure 3 The "skeleton of a conversation" (after Pask).

https://www.univie.ac.at/constructivism/pub/fos/pdf/scott.pdf

Knowledge is reified by, and is the product of, not only an individual, but of the wider community.

meaning

forms

Participation

Living in the world

Points of focus

membership

documents

experience

monuments

world

acting

interacting

instruments

projection

mutuality

Reification

Negotiation

Stephen Downes

http://www.downes.ca