

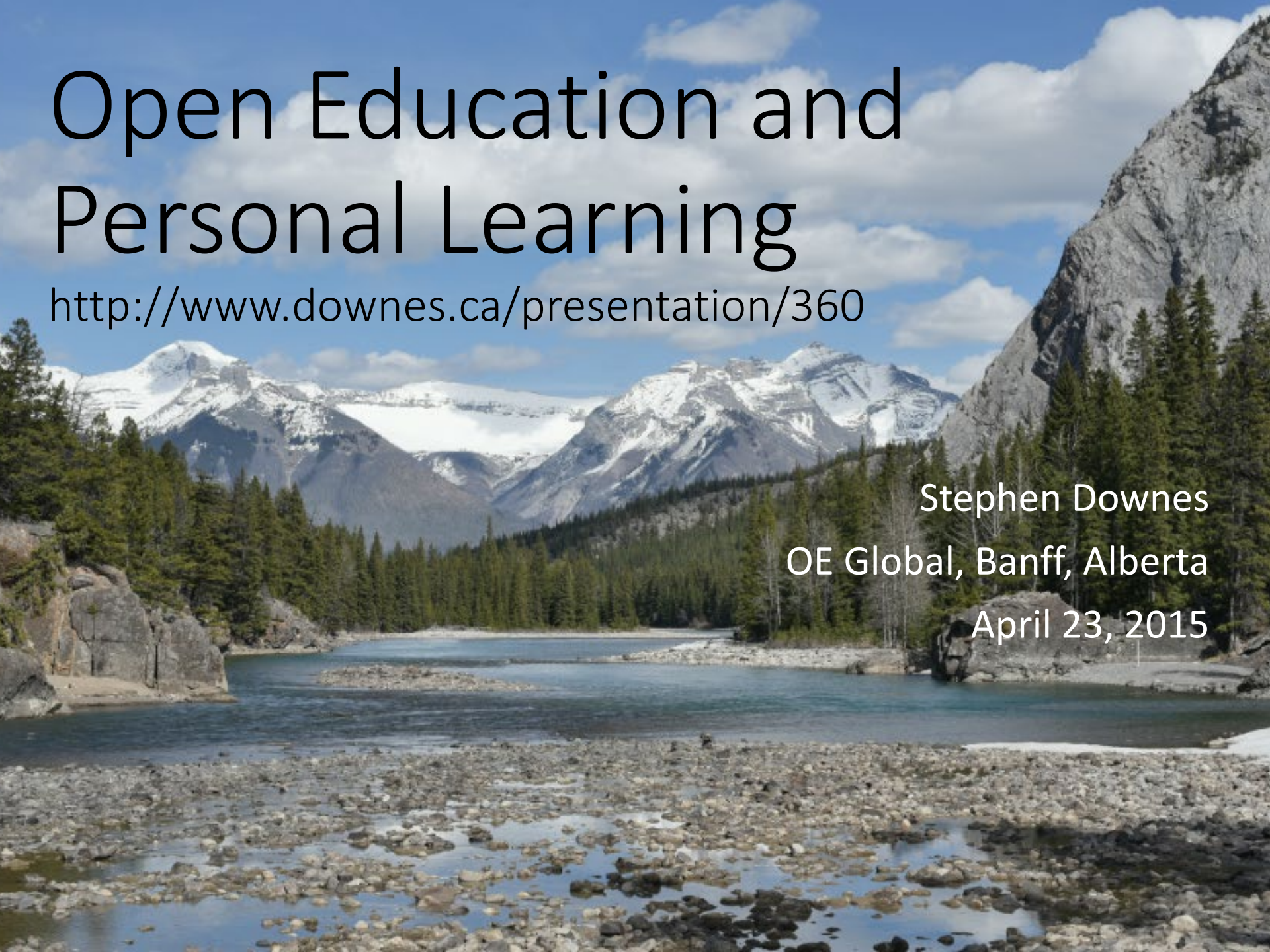
# Open Education and Personal Learning

<http://www.downes.ca/presentation/360>

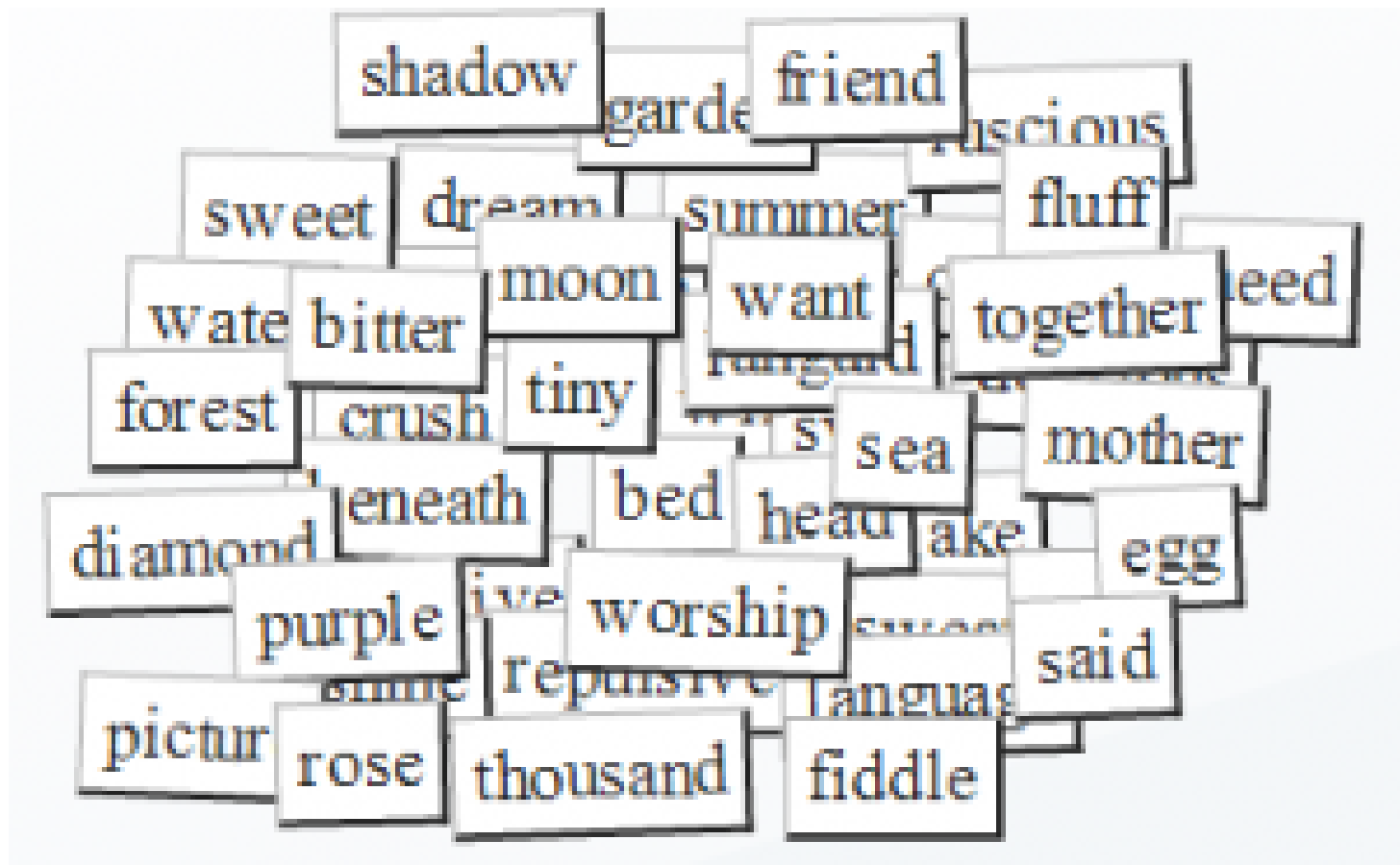
Stephen Downes

OE Global, Banff, Alberta

April 23, 2015



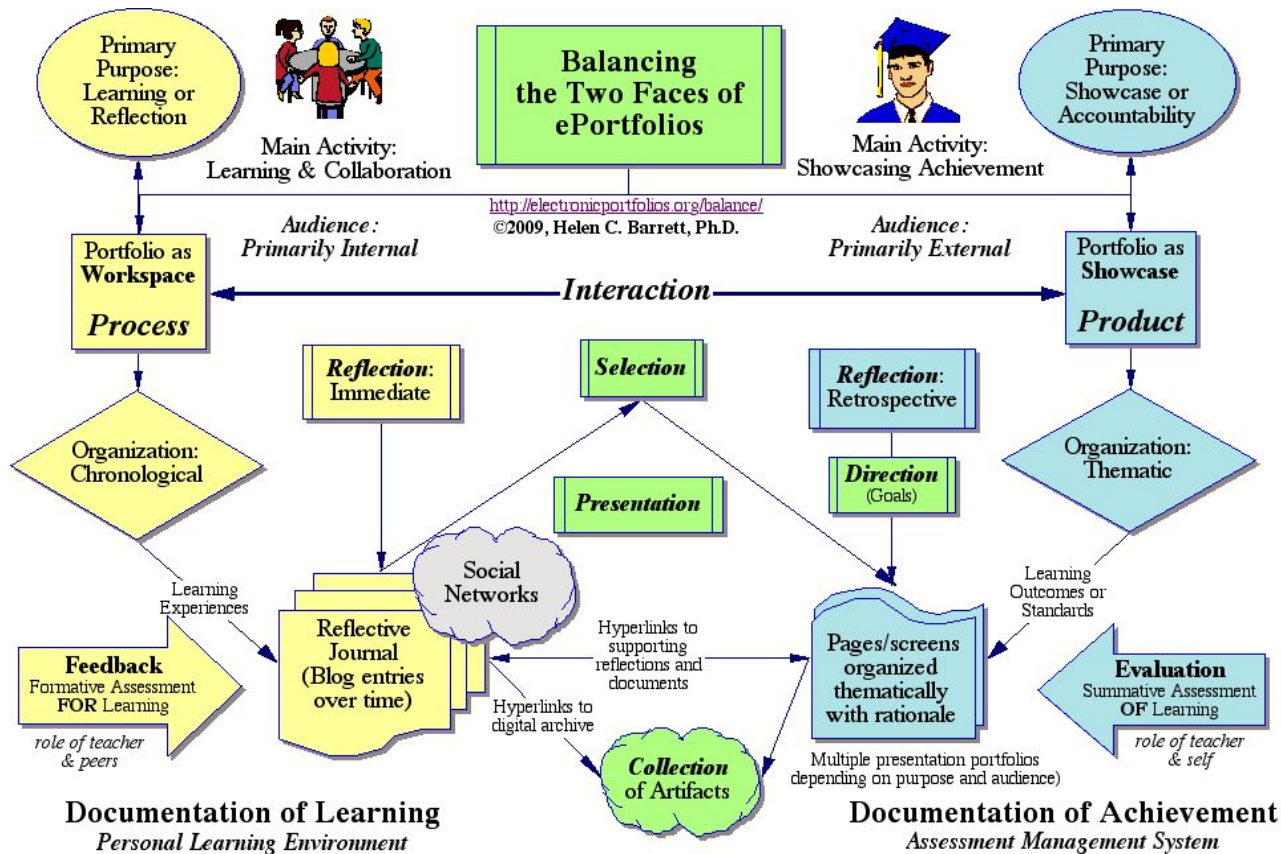
Think of OERs as words in a conversation



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



# Consider how words are used in education.



# We are constrained in so many ways

- Limited to objectives and educational purpose
- The words have to contain educational *content*
- They must perform (say) one of Gagne's tasks
- That pedagogy is limited to one of knowledge *transfer*
- Students are rendered essentially mute

# Pask: Conversational Theory

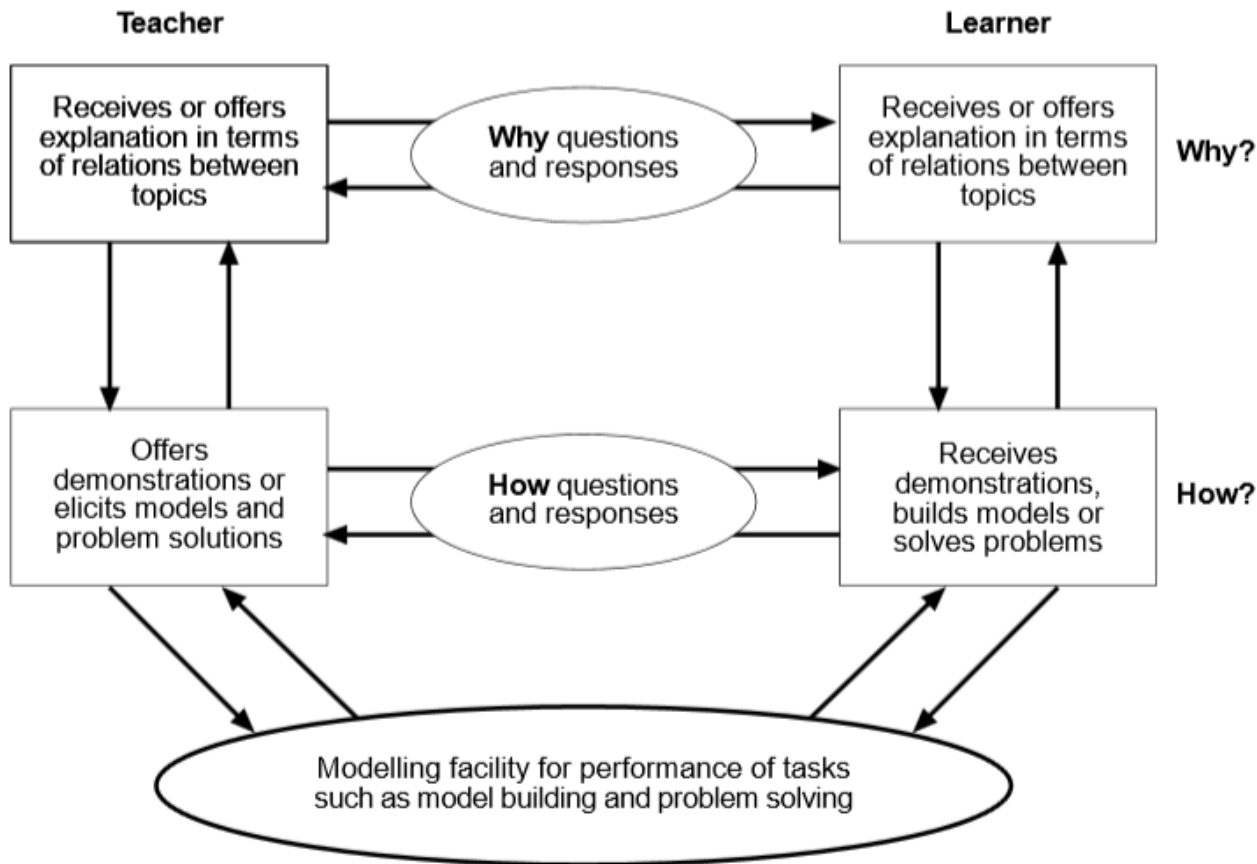
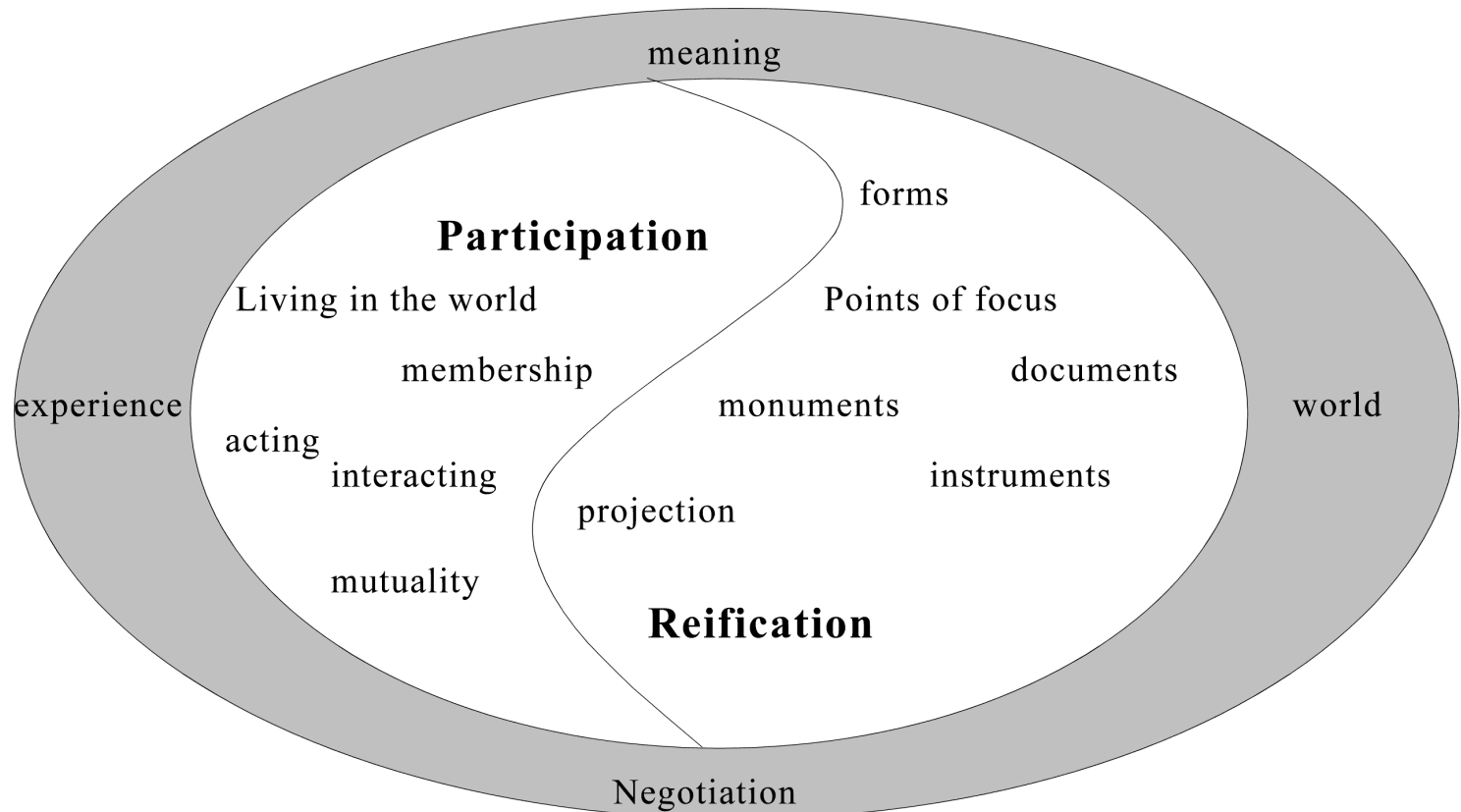


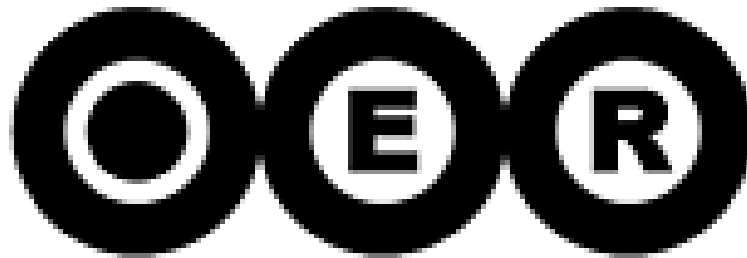
Figure 3 The "skeleton of a conversation" (after Pask).

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



# 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/>



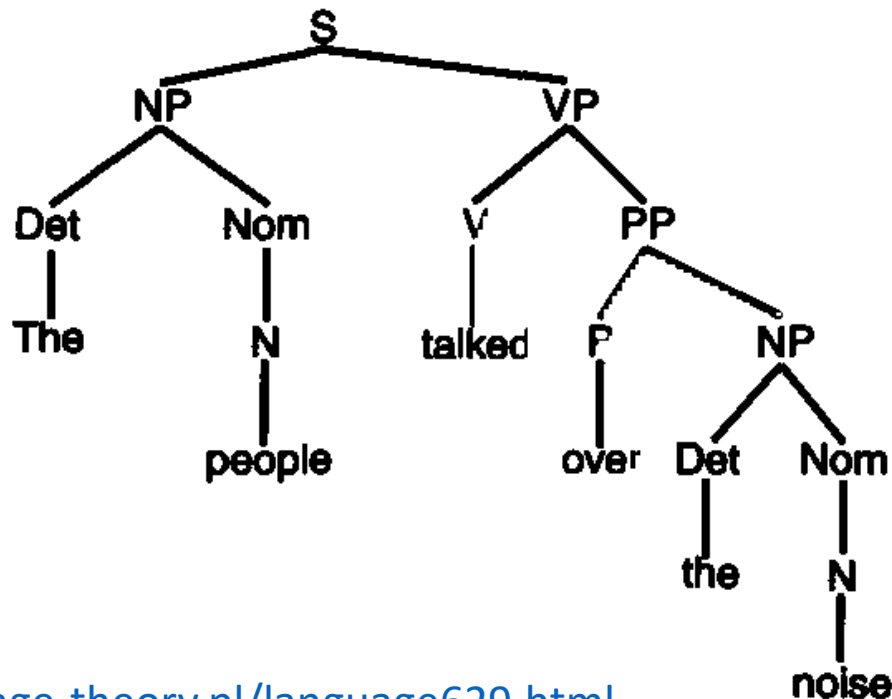
# So what follows?

- Deconstructing OERs
- Representing knowledge and understanding
- Students as authors of OERs



# Deconstructing Sentences

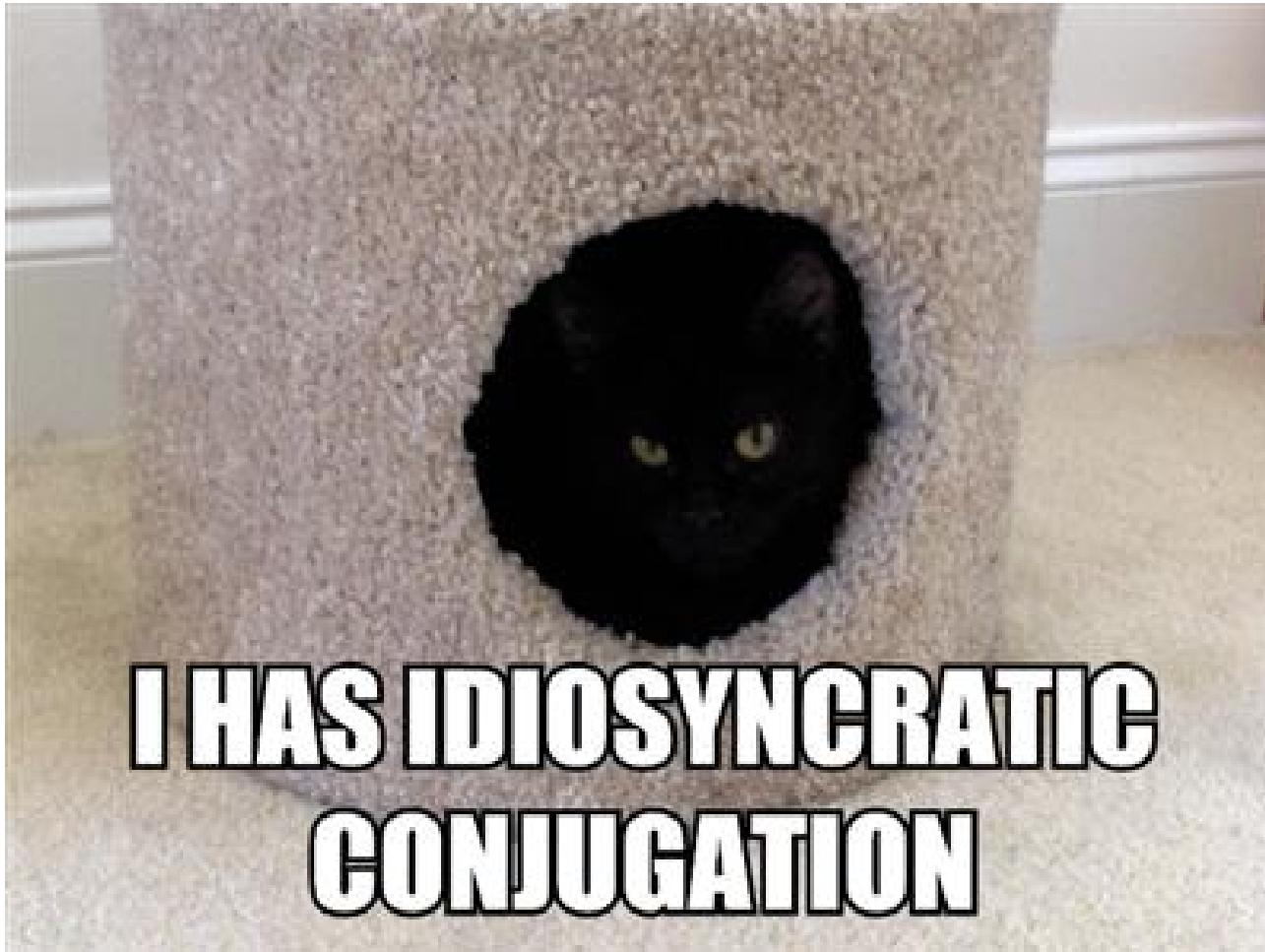
- A simple sentence has subject-object-verb
- A complex sentence can have much more



# Anatomy of a Tweet



# Understanding LOLcats & Memes



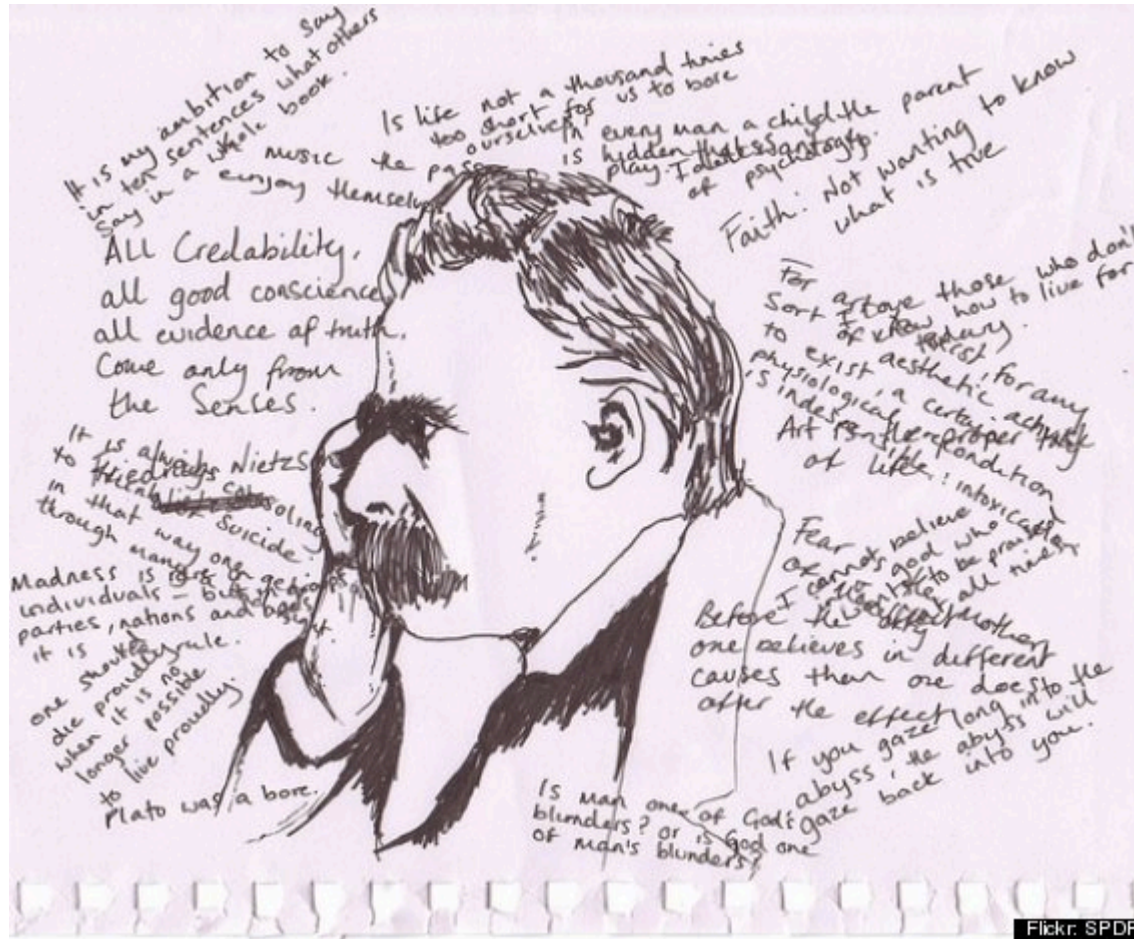
<http://dashes.com/anil/2007/04/cats-can-has-gr.html>

# Where Conversations Happen



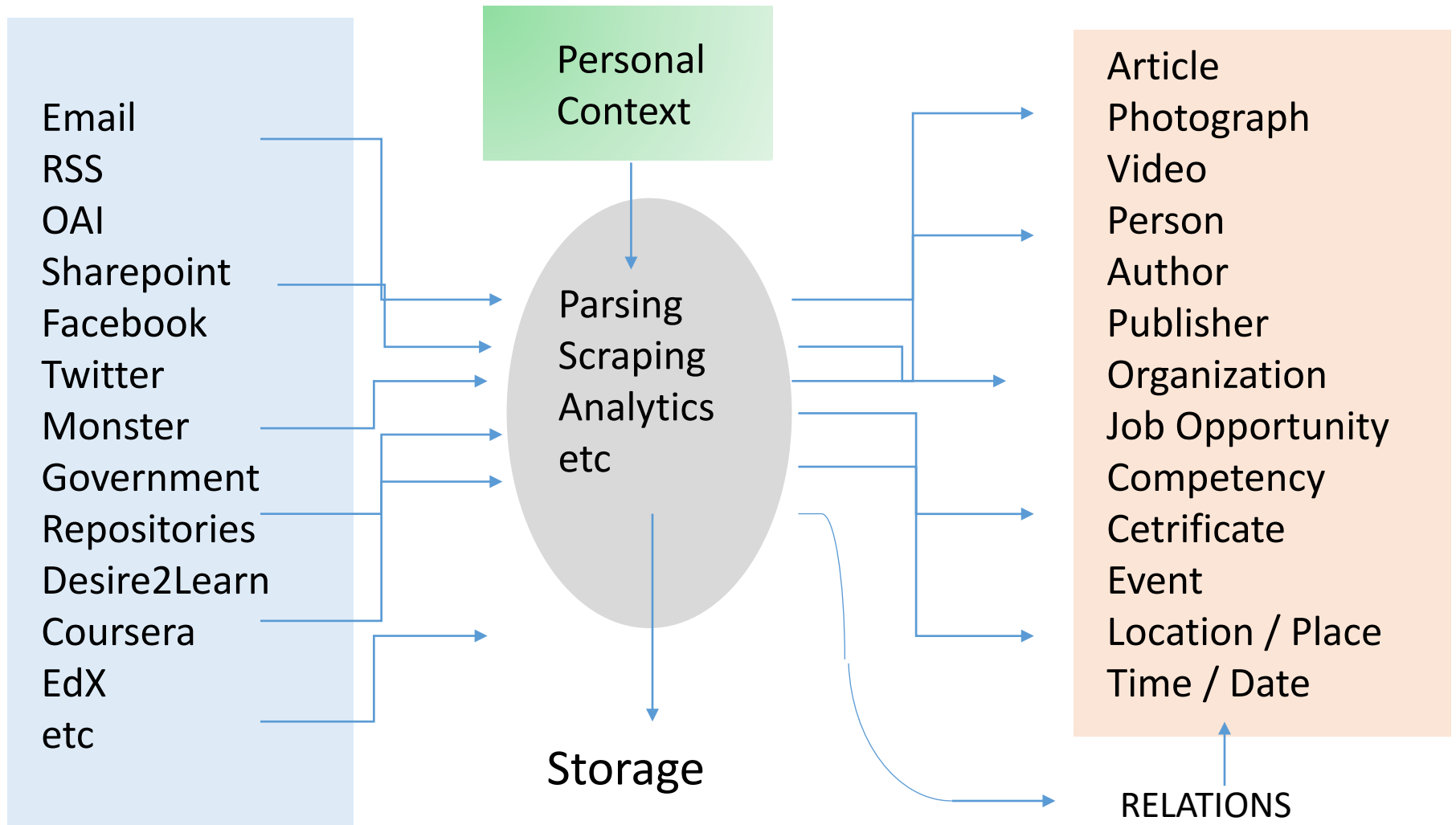
<http://profitecture.com/how-to-get-conversations-going-on-social-media-2/>

# What Conversations Contain

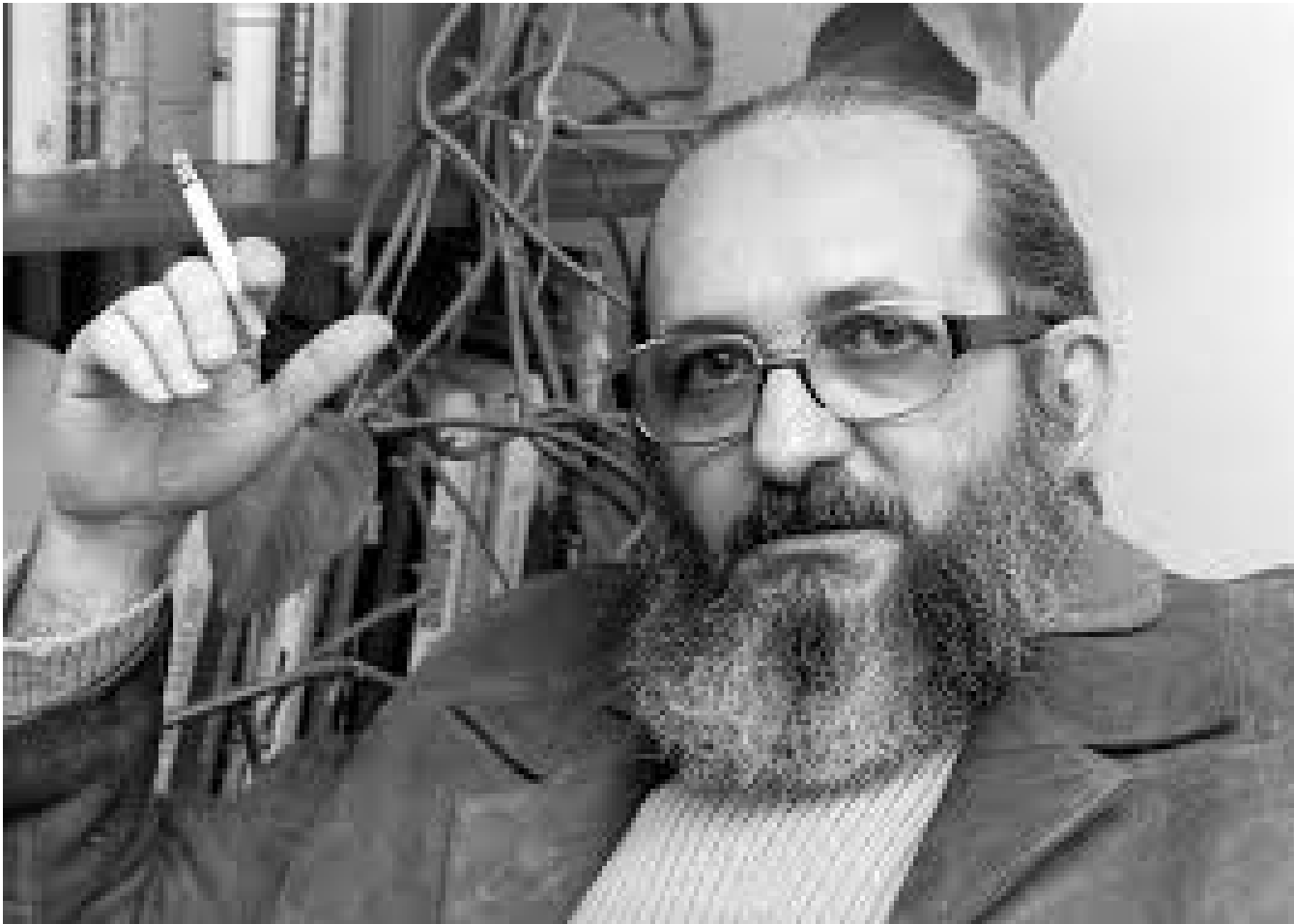


[http://www.huffingtonpost.com/2013/08/20/introverts-signs-am-i-introverted\\_n\\_3721431.html](http://www.huffingtonpost.com/2013/08/20/introverts-signs-am-i-introverted_n_3721431.html)

# RRN Aggregation and Storage



# Understanding Knowledge



<http://www2.webster.edu/~corbetre/philosophy/education/freire/freire-2.html>

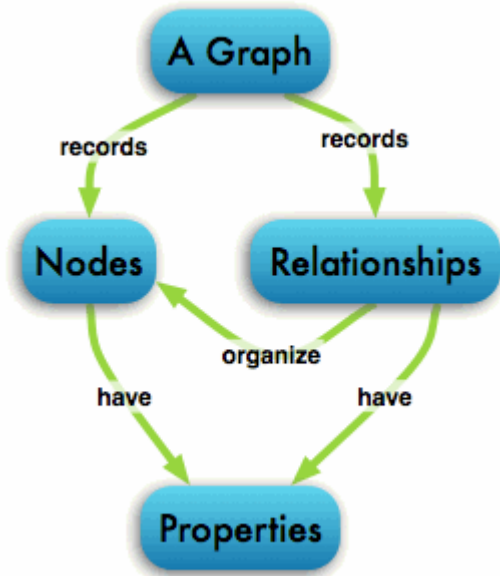


# Knowing a Pile of Facts?

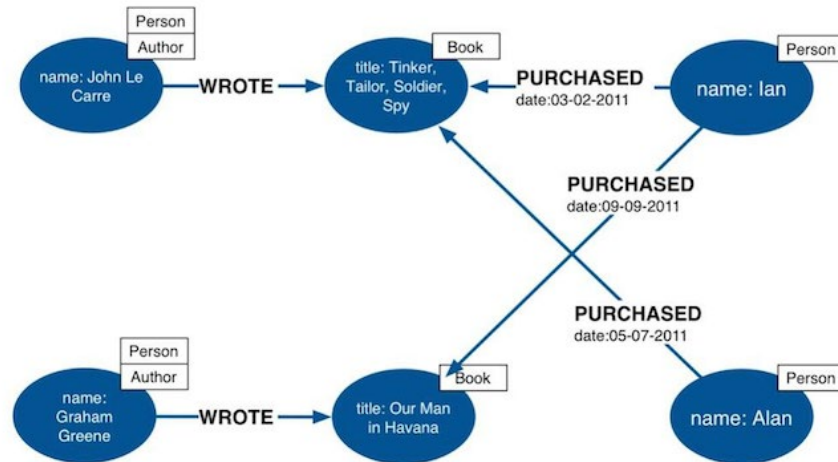


Image: <http://www.rightattitudes.com/>

# The Graph Database



## Labeled Property Graph Data Model



<http://neo4j.com/developer/graph-database/>

# Quality & Narrative

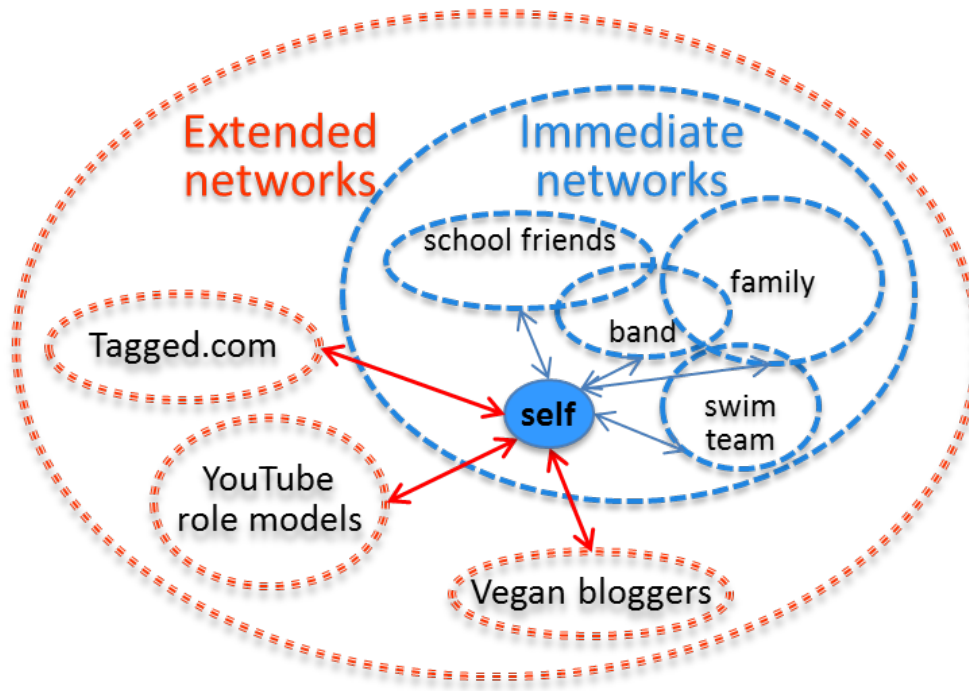
- Accuracy
- Reputation of author/institution
- Standard of technical production
- Accessibility
- Fitness for purpose



*Really? These?*

<https://openeducationalresources.pbworks.com/w/page/24838164/Quality%20considerations>

# Learning in Context



Informal learning opportunities via extended networks

Task-Focused  
Network-based

# How OERs (Really) Begin

The screenshot shows the Khan Academy website interface. At the top left, the Khan Academy logo is displayed with the text "156,590,606 lessons delivered" and "KHANACADEMY". To the right of the logo is a search bar with the placeholder text "Search for a video or topic". Further right are navigation links: "WATCH", "PRACTICE", "COACH", "VOLUNTEER", and "ABOUT". In the top right corner, there are links for "Login" and "Donate".

The main content area features a video player with the title "LeBron asks about the chances of making 10 free throws". The video content shows a hand-drawn illustration of LeBron James holding a basketball. To the right of the illustration, there are diagrams and calculations illustrating probability. The diagrams show three free throws (FT#1, FT#2, FT#3) with a 75% success rate for each. The calculations show the probability of making all three free throws:  $75\% \times 75\% \times 75\%$ . Below the diagrams, there is a play button icon and the text "FT#10" followed by the calculation  $75\% \times 75\% \times 75\% \times 75\% \times 75\% \times 75\% \times 75\% \times 75\%$ . The Khan Academy logo is visible in the bottom right corner of the video player.

To the right of the video player, there is a section titled "Watch. Practice. Learn almost anything for free." Below this, there is a paragraph: "With over 3,200 videos on everything from arithmetic to physics, finance, and history and hundreds of skills to practice, we're on a mission to help you learn what you want, when you want, at your own pace." Below the paragraph are two buttons: "Watch a Video" and "Take a Challenge".

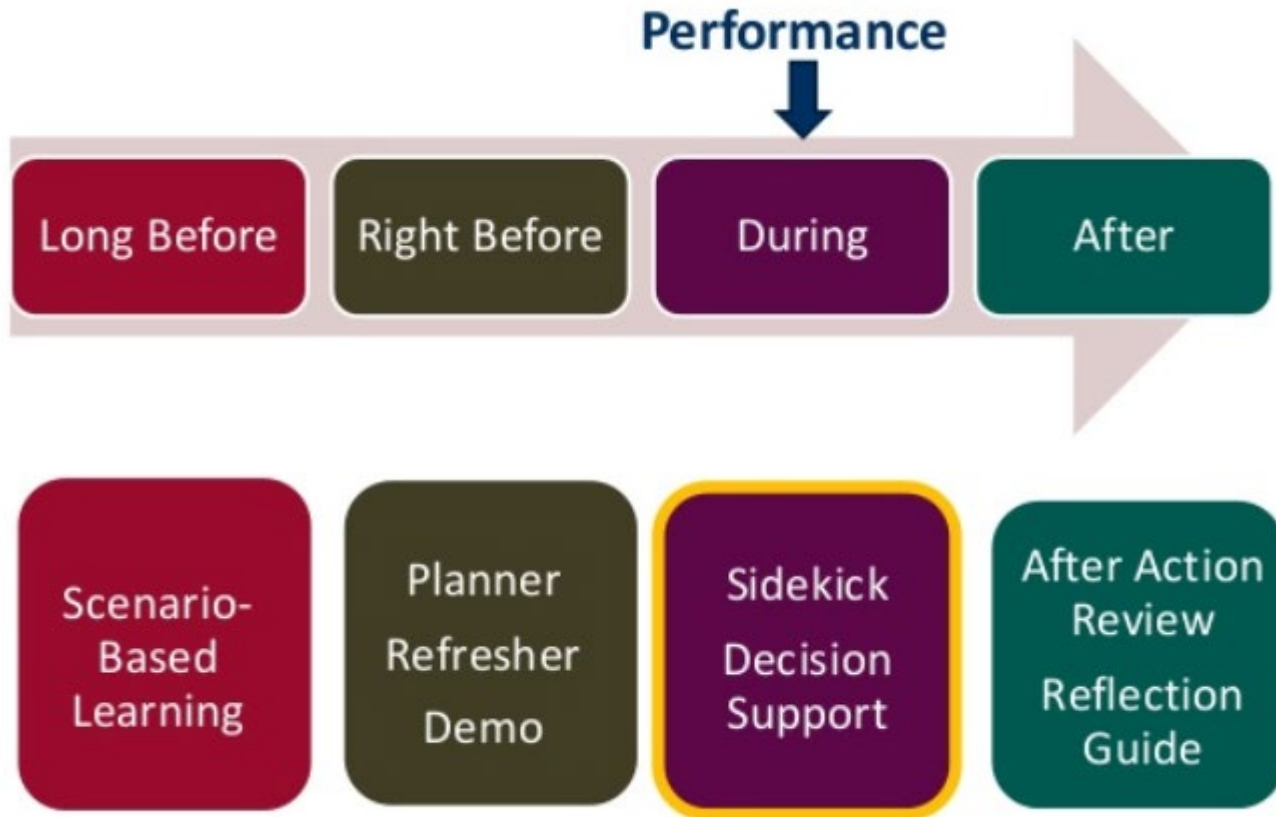
Below the buttons, there is a link: "Teacher or administrator? Explore our Teacher Resources." Below this link are social media sharing options: "Like" (897k), "Send", "Tweet" (28.4K), and "+1" (18k). Below the social media options is a form to enter an email to learn about new courses, with a "Get Updates" button.

Below the video player and social media options, there is a section titled "New & Noteworthy" with four video thumbnails: "Balance of Payments- Current ...", "Balance of Payments- Capital ...", "Why Current and Capital Acco...", and "Accumulating Foreign Currenc...".

Below the "New & Noteworthy" section, there is a link: "Browse our library of over 3,200 educational videos...". Below this link is a navigation bar with the following options: "Jump to topic: Math", "Science", "Finance & Econ.", "Humanities", "Test Prep", and "Talks and Interviews".

<http://www.khanacademy.org/>

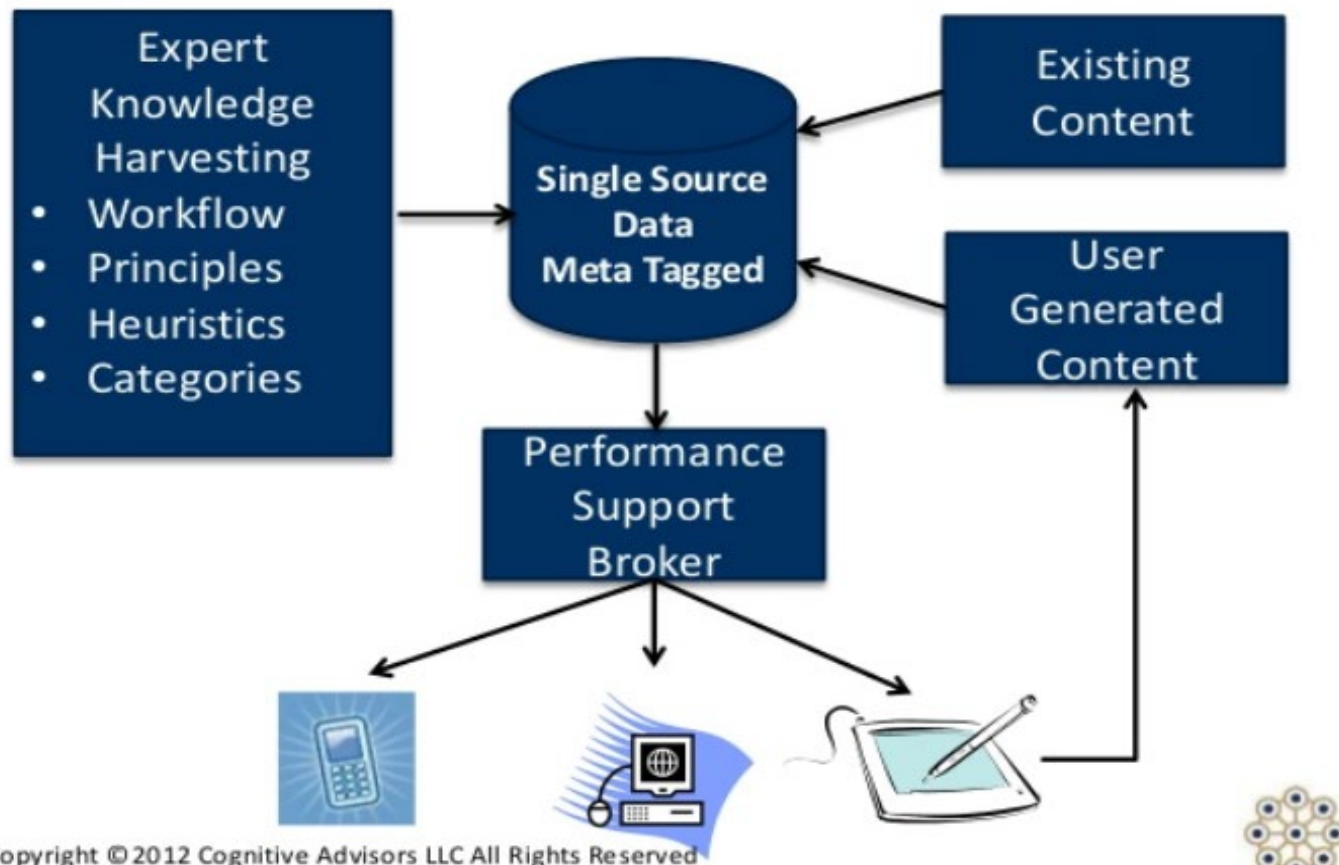
# Performance Support



Copyright © 2012 Cognitive Advisors LLC All Rights Reserved



# User-Generated OERs



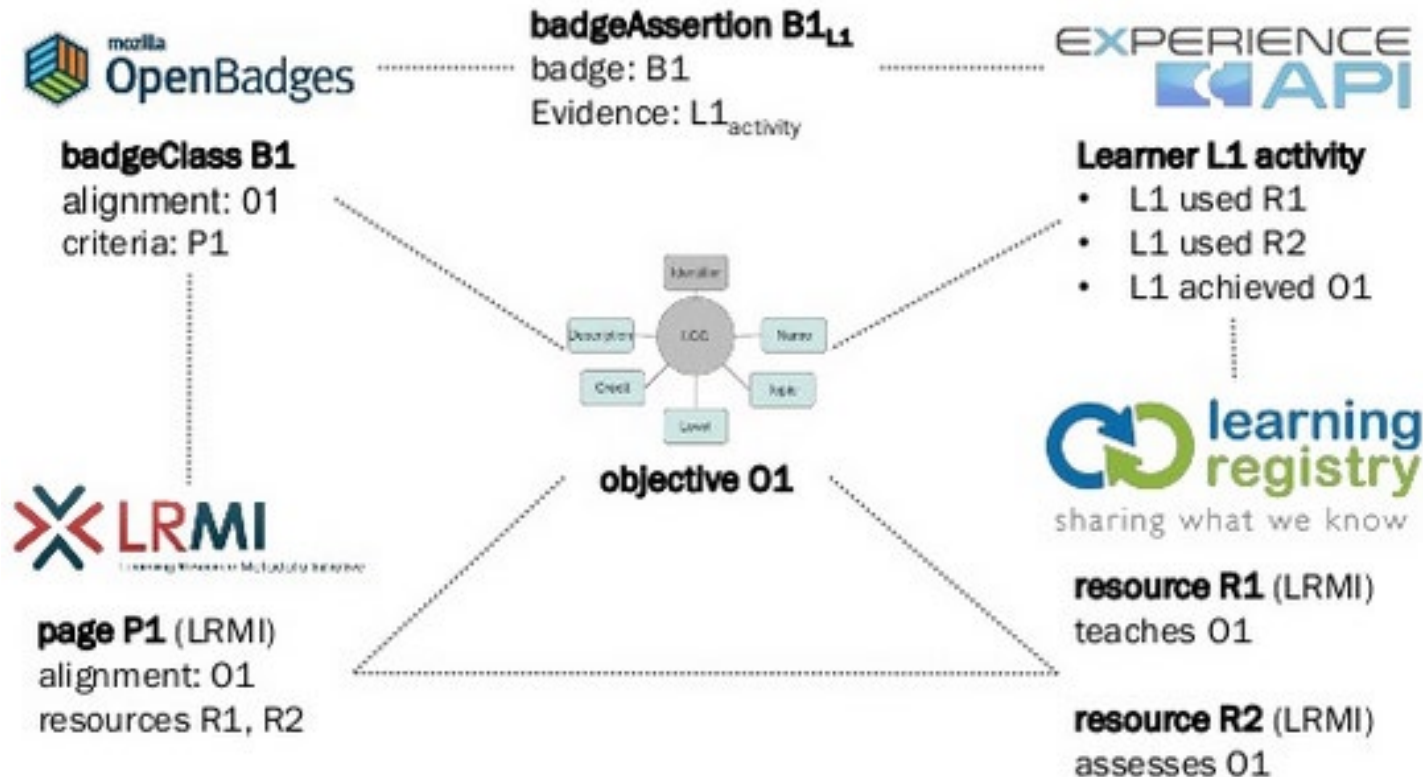
# Working Out Loud



<http://johnstepper.com/2014/01/04/the-5-elements-of-working-out-loud/>



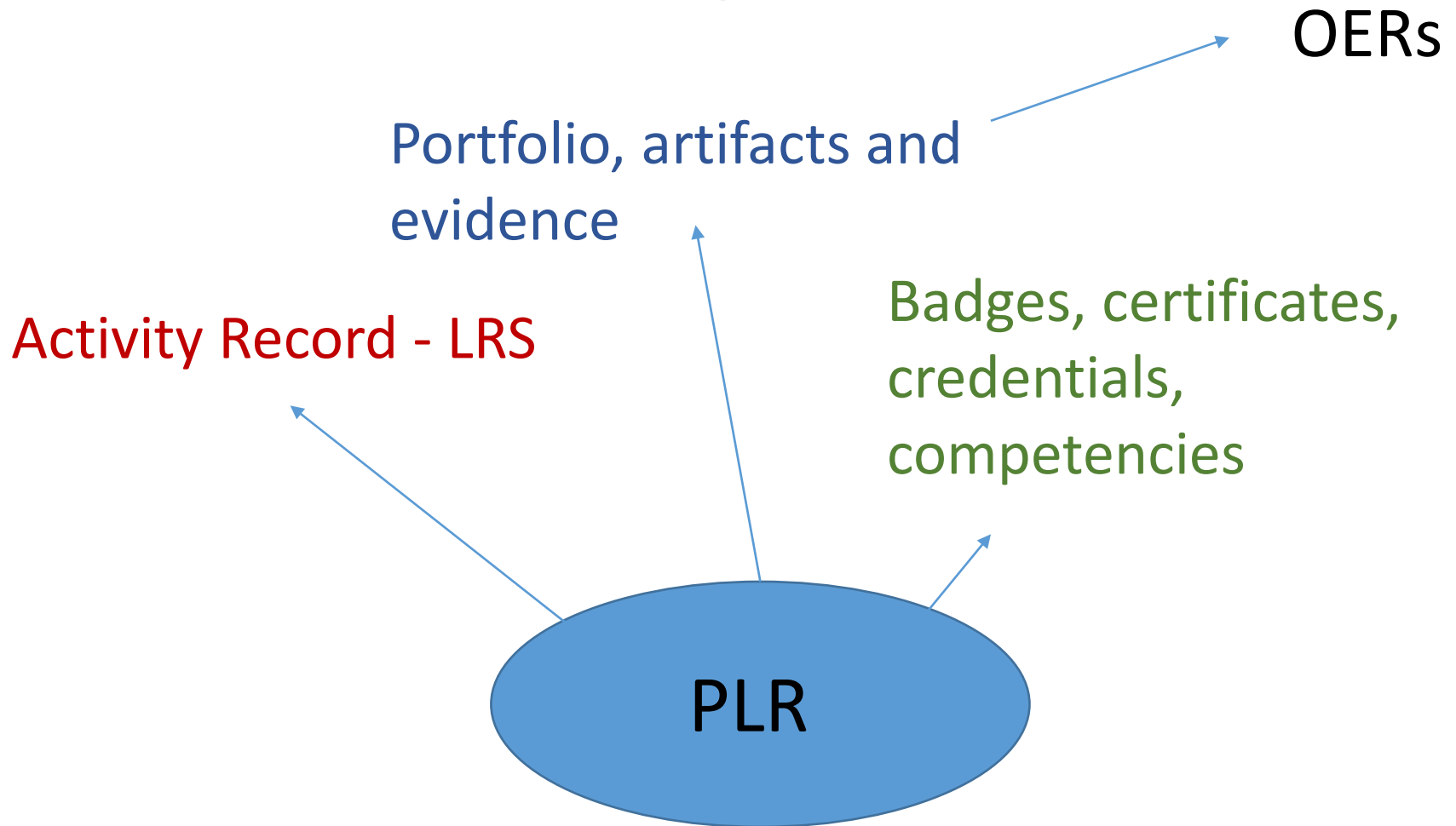
# Personal Assistant for Learning



<http://www.adlnet.org/adl-initiative-baa-new-submission-window-open-for-personal-assistant-for-learning-pal-proposals-2/index.html>

<http://www.slideshare.net/damonregan/regan-tla-infrastructureforfutureoflearningsintice2013>

# Personal Learning Record



# Informal OER Ecosystem

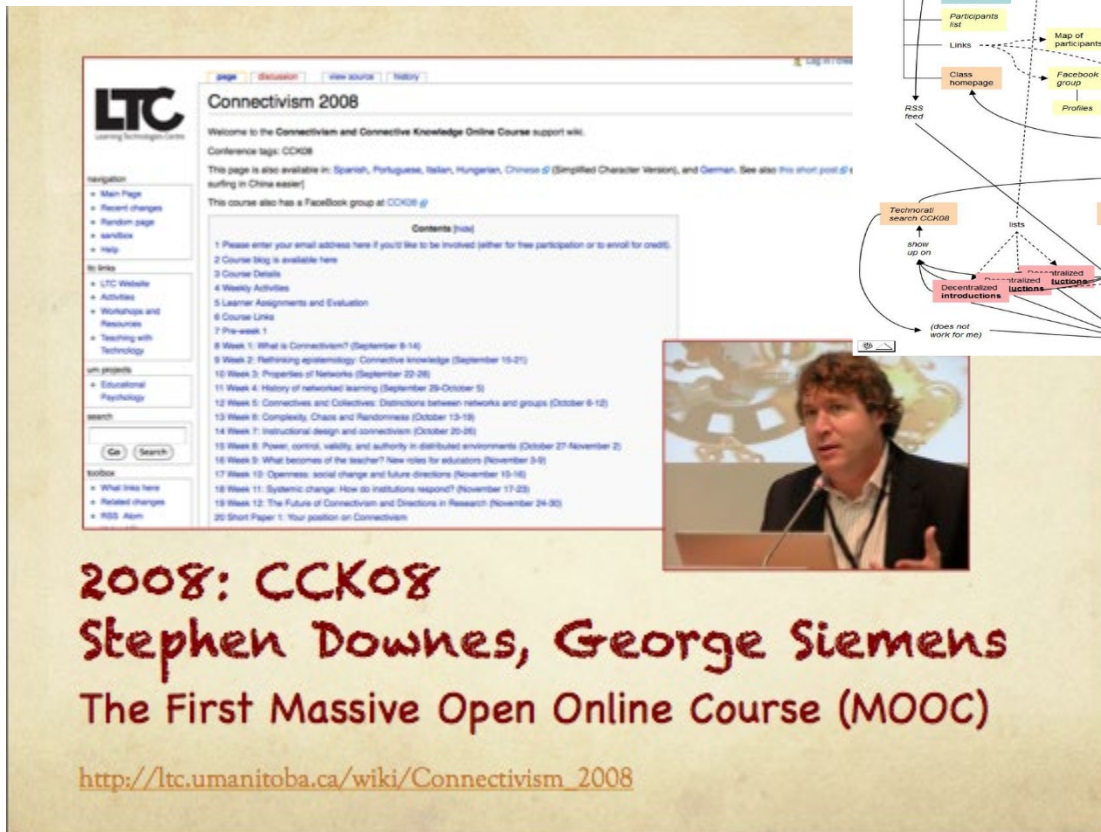


# Creating Live OERs





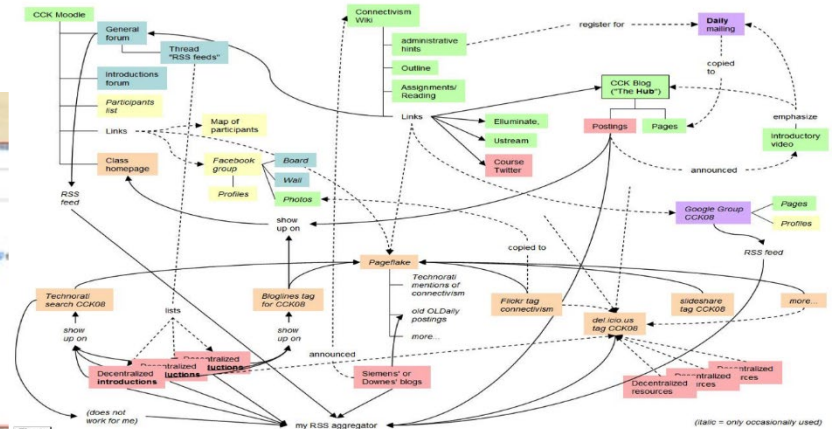
# MOOC – CCK08



The image shows a screenshot of the LTC Connectivism 2008 website. The website header includes the LTC logo and the title "Connectivism 2008". Below the header, there is a welcome message and a list of course details, including a table of contents with 20 items. A photo of Stephen Downes speaking at a podium is overlaid on the bottom right of the screenshot.

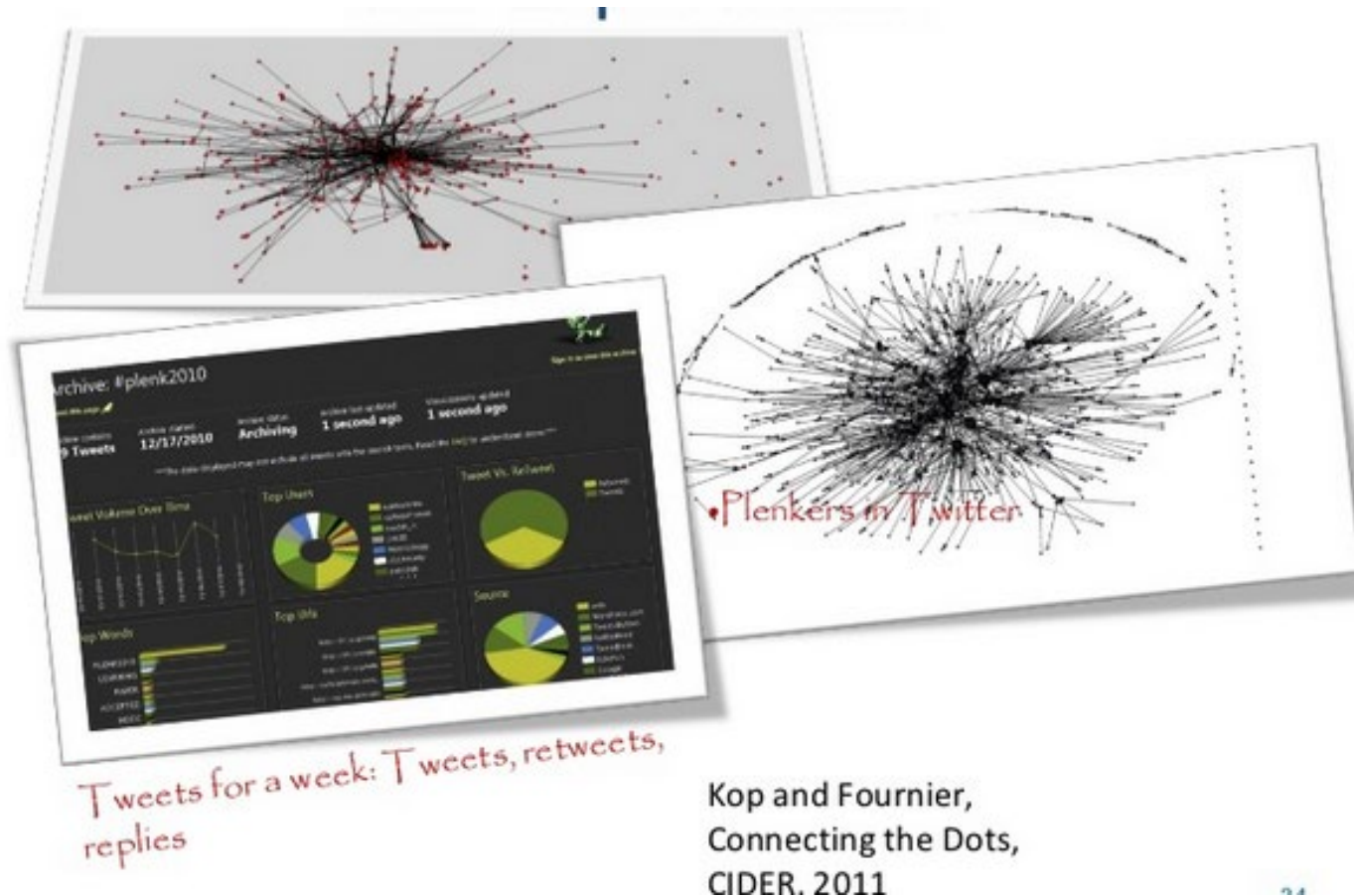
**2008: CCK08**  
**Stephen Downes, George Siemens**  
**The First Massive Open Online Course (MOOC)**

[http://ltc.umanitoba.ca/wiki/Connectivism\\_2008](http://ltc.umanitoba.ca/wiki/Connectivism_2008)



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

# Plearn – Importance of the Graph



<http://www.slideshare.net/Downes/after-moodle>

<http://www.slideshare.net/Ritakop/kopfourniercanadianinstitutedistanceeducationresearchple>

# OIF – MOOC-REL

The screenshot shows the top navigation bar of the REL 2014 MOOC website. The main title is "REL 2014 - Pour une éducation libre". The navigation menu includes "ACCUEIL", "VOTRE COMPTE", "COMPTES RENDUS", "PARTICIPER", "SYNDICATION RSS", and "ARCHIVES". Below the navigation bar, there is a message: "Vous n'êtes pas connecté(e). [Connexion] - [Inscription]". The main content area features a large graphic on the left with the text "Réutiliser, retravailler, recombinaison, redistribuer" and icons representing people and documents. To the right of the graphic is the main heading "Réutiliser, Retravailler, Recombiner, Redistribuer – 4R des REL pour une Éducation libre". Below this heading is a paragraph: "Bienvenue à votre Cours en Ligne Ouvert et Massif (CLOM) de l'Organisation internationale de la Francophonie portant sur les ressources éducatives libres (REL).". Another paragraph follows: "Le cours débute le 3 mars 2014 et dure neuf semaines consécutives. Si vous n'êtes pas déjà inscrit(e), faites-le tout de suite pour recevoir le Bulletin de nouvelles quotidiennes et bénéficier du droit de commentaires/discussion dans le site." Below this is the sub-heading "Introduction au CLOM REL 2014". At the bottom of the screenshot, the beginning of another paragraph is visible: "Vous trouverez ci-dessous une courte vidéo qui explique le contexte du présent cours. Nous vous".

REL 2014 - Pour une éducation libre

ACCUEIL VOTRE COMPTE COMPTES RENDUS PARTICIPER SYNDICATION RSS ARCHIVES

Vous n'êtes pas connecté(e). [Connexion] - [Inscription]

Réutiliser, retravailler, recombinaison, redistribuer

## Réutiliser, Retravailler, Recombiner, Redistribuer – 4R des REL pour une Éducation libre

Bienvenue à votre Cours en Ligne Ouvert et Massif (CLOM) de l'Organisation internationale de la Francophonie portant sur les ressources éducatives libres (REL).

Le cours débute le 3 mars 2014 et dure neuf semaines consécutives. Si vous n'êtes pas déjà inscrit(e), faites-le tout de suite pour recevoir le Bulletin de nouvelles quotidiennes et bénéficier du droit de commentaires/discussion dans le site.

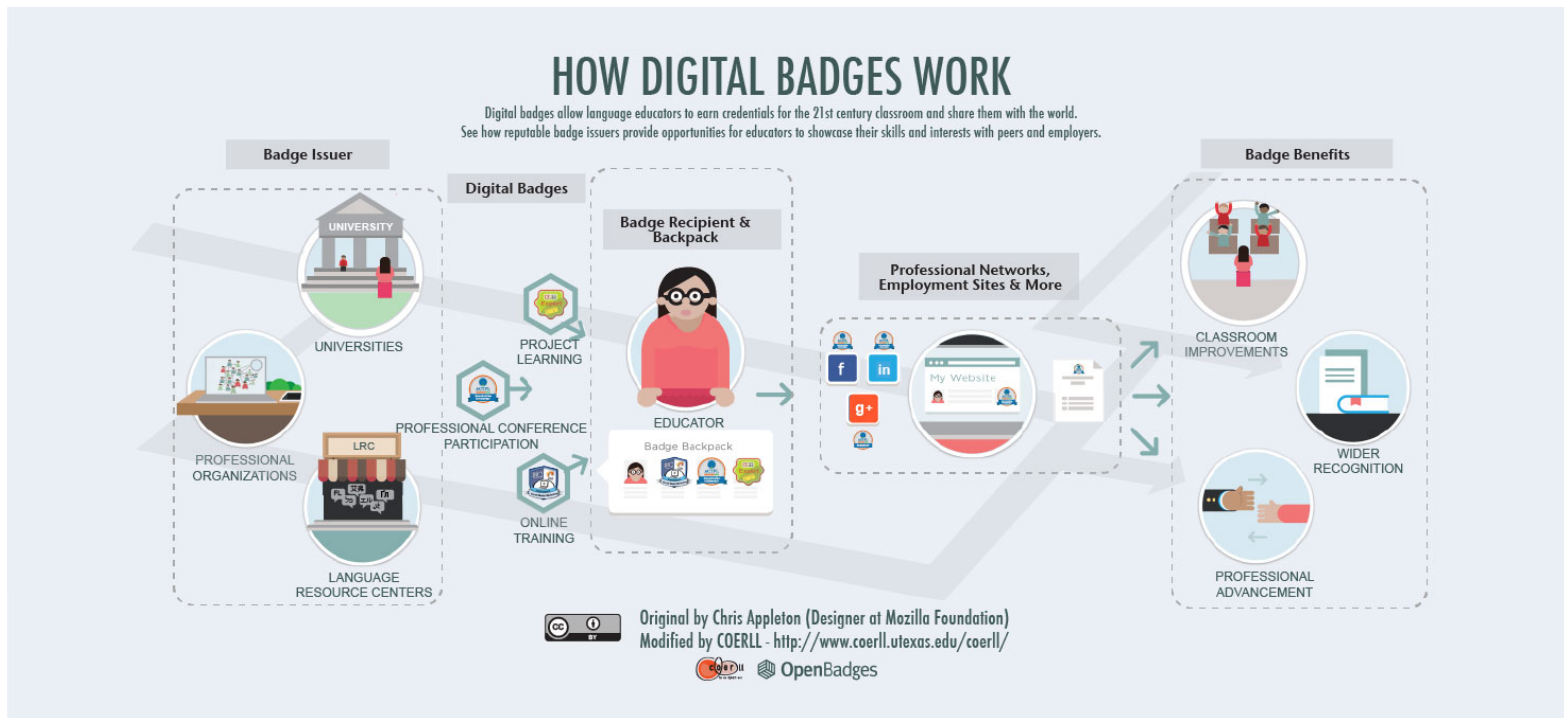
### Introduction au CLOM REL 2014

Vous trouverez ci-dessous une courte vidéo qui explique le contexte du présent cours. Nous vous

<http://rel2014.mooc.ca/>



# PCO Badges for Learning



<http://www.downes.ca/post/63738>

# ONGARDE



<http://www.journal.forces.gc.ca/vol14/no2/page70-eng.asp>

# ALECSO – Capacity Building



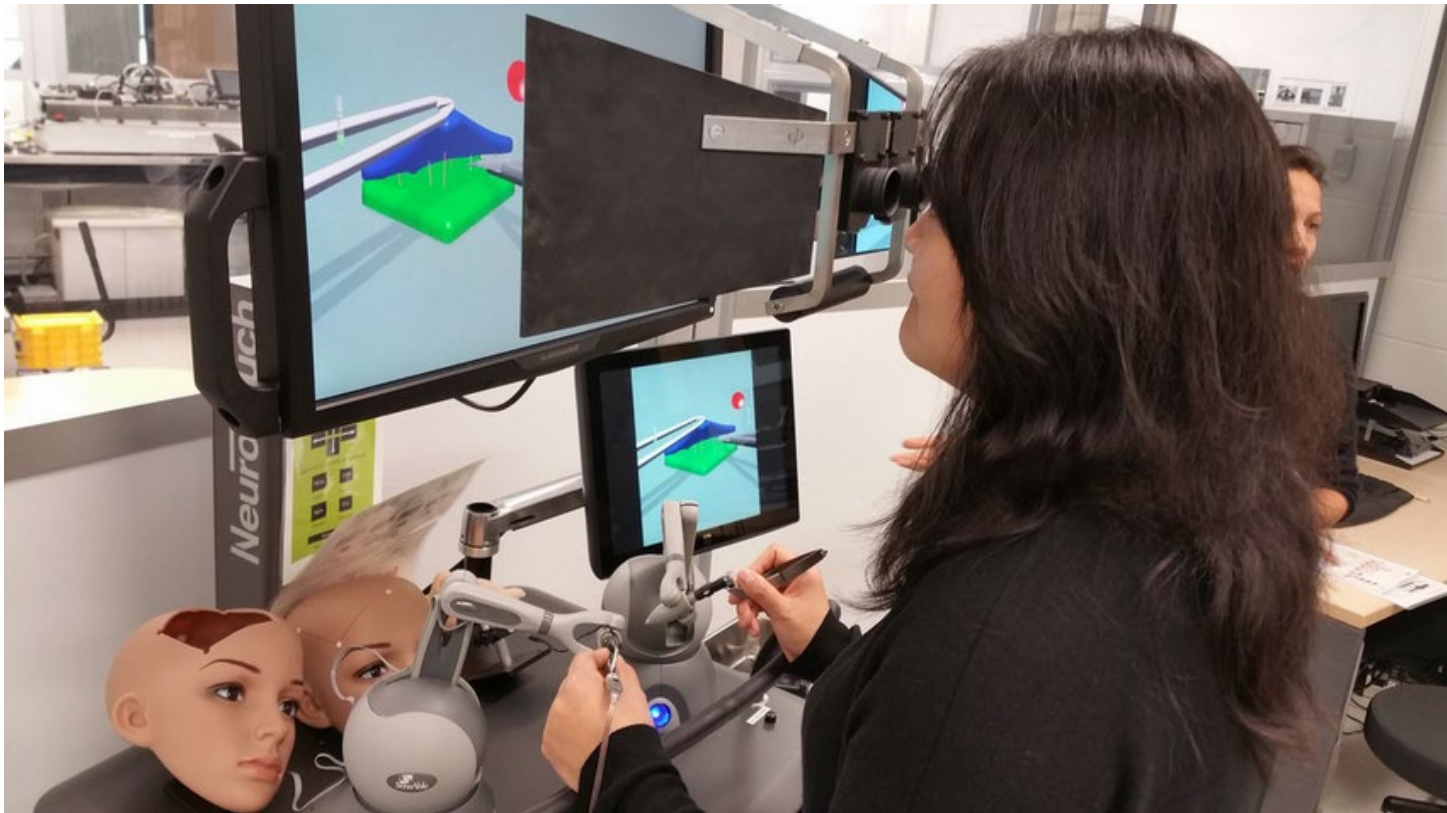
<http://www.downes.ca/presentation/337>

# MINT - Mobile INteractive Trainer



<http://www.downes.ca/post/59876>

# Collecting xAPI from Med Sims



[https://www.flickr.com/photos/stephen\\_downes/15710336207/](https://www.flickr.com/photos/stephen_downes/15710336207/)

<http://www.nrc-cnrc.gc.ca/eng/rd/medical/>

# Concierge OMS

The screenshot shows the top portion of the Concierge Service website. At the top left, there is a logo for the Government of Canada in both English and French. To the right, navigation links for 'Canada.gc.ca', 'Services', 'Departments', and 'Français' are visible. The main header features the text 'Concierge Service' and the 'Canada' logo. Below this is a search bar and a navigation menu with options like 'Home', 'About us', 'Find programs', 'Find facilities', and 'My concierge'. The main content area is titled 'Your guide to innovation' and includes a sub-header 'Helping Canadian enterprises find and access programs and services that support business innovation.' There are two main visual elements: a large image of a person holding a glowing lightbulb with a search bar overlay, and a smaller image of a golden key on a background of binary code. A call to action 'Create an account to get the benefits to support you & your business!' is positioned below the key image. At the bottom, there is a section titled 'Find a program that meets your needs'.

Government of Canada / Gouvernement du Canada

Canada.gc.ca | Services | Departments | Français

## Concierge Service

Canada

Home About us Find programs Find facilities My concierge Register Log in

Home → Your guide to innovation

### Your guide to innovation

Helping Canadian enterprises find and access programs and services that support business innovation.

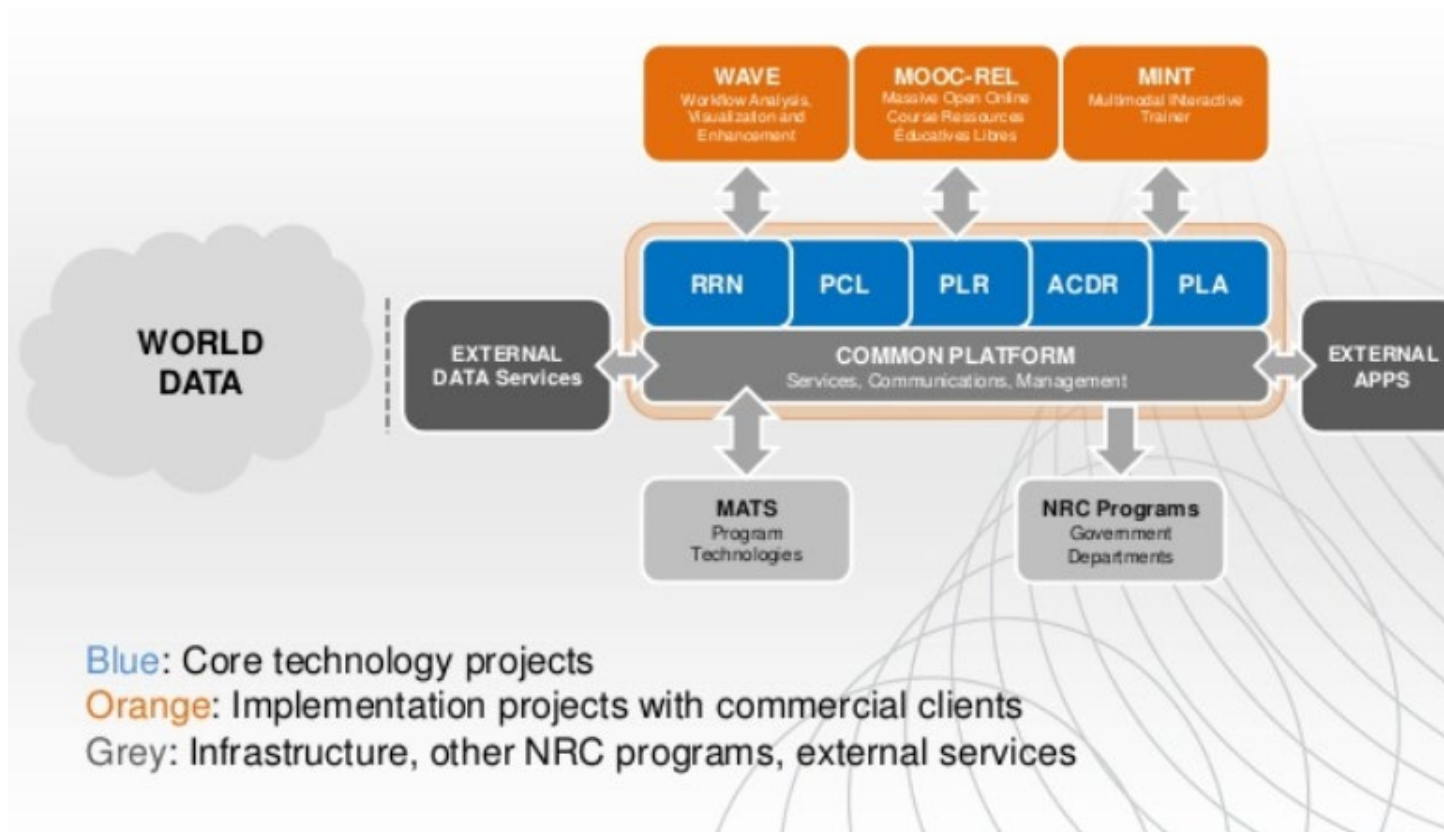
How can we help you?

Create an account to get the benefits to support you & your business!

Find a program that meets your needs

<https://concierge.portal.gc.ca/>

# How to Engage



<http://www.nrc-cnrc.gc.ca/eng/solutions/collaborative/lpss.html>



Stephen Downes

<http://www.downes.ca>