From Individual to Community: The Learning Is in the Doing

Stephen Downes March 19, 2016



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worldcongresscpd.org

1. Learning is Personal



Alejandro Jadad, yesterday. Cover hummingbird photo: Nathan Rupert, https://www.flickr.com/photos/nathaninsandiego/11106714545/

Knowledge Translation

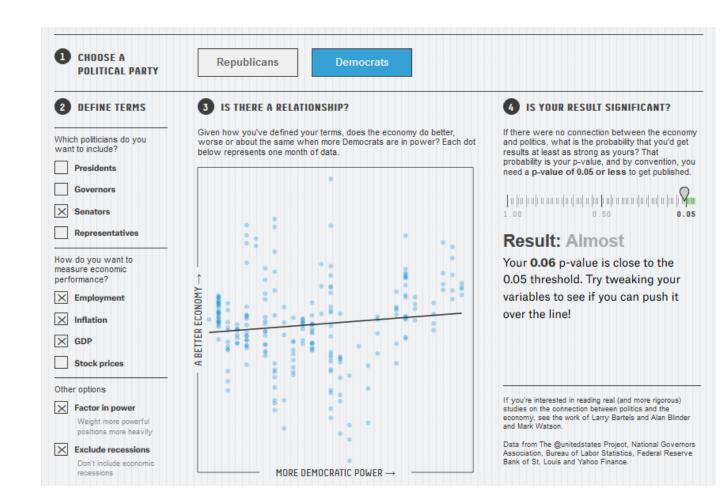
CIHR – "CIHR, **knowledge translation** (KT) is defined as a dynamic and iterative process that includes synthesis, dissemination, exchange and ethicallysound application of **knowledge** to improve the health of Canadians."

CIHR, <u>http://www.cihr-irsc.gc.ca/e/39033.html</u>

Campbell Collaboration - knowledge base for decisions

http://www.campbellcollaboration.org

Reasonable Doubts



The crisis can't be wished away, nor can the basic lack of reproducibility be whitewashed.

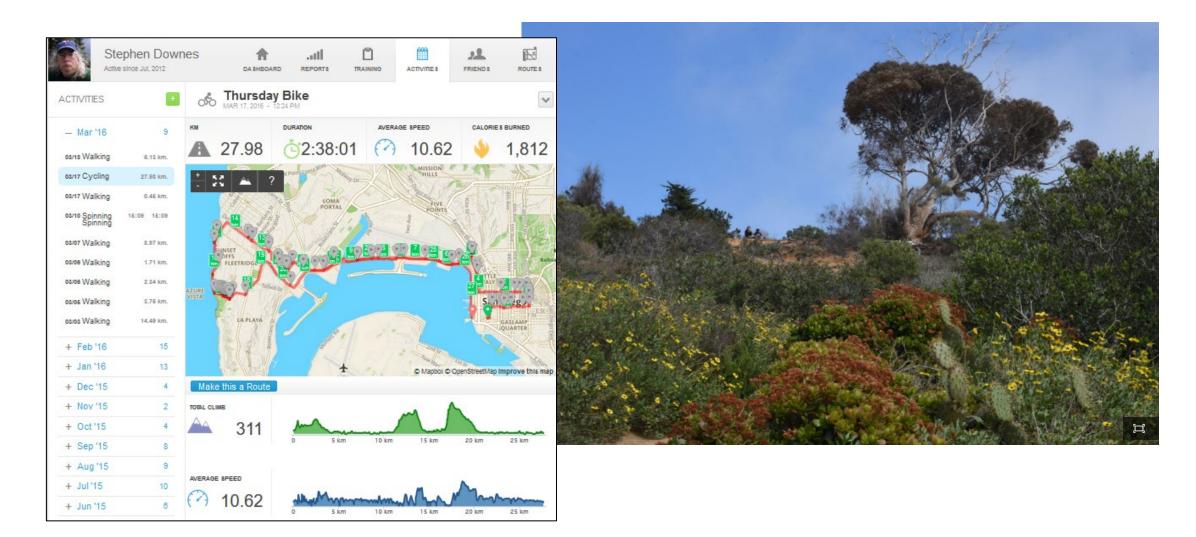
http://www.downes.ca/post/65131

http://fivethirtyeight.com/featu res/science-isnt-broken/#part2

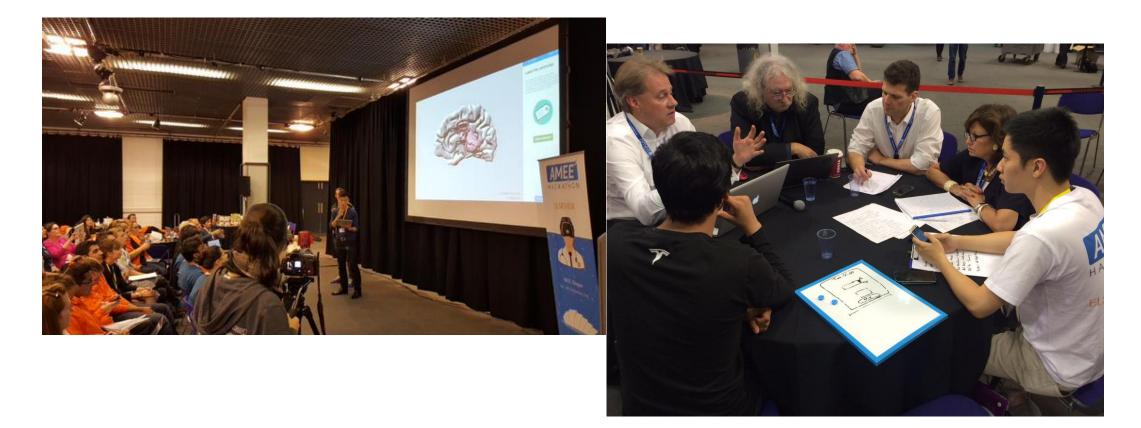
Criticisms...

- "research should move beyond a narrow focus on the 'know-do gap' to cover a richer agenda..."
 - situation-specific practical wisdom (phronesis)
 - tacit knowledge shared among practitioners ('mindlines')
 - complex links between power and knowledge; and - macro-level knowledge partnerships

Exploring, not Following



The Hackathon...



http://www.hackathon.io/events

The EduCamp

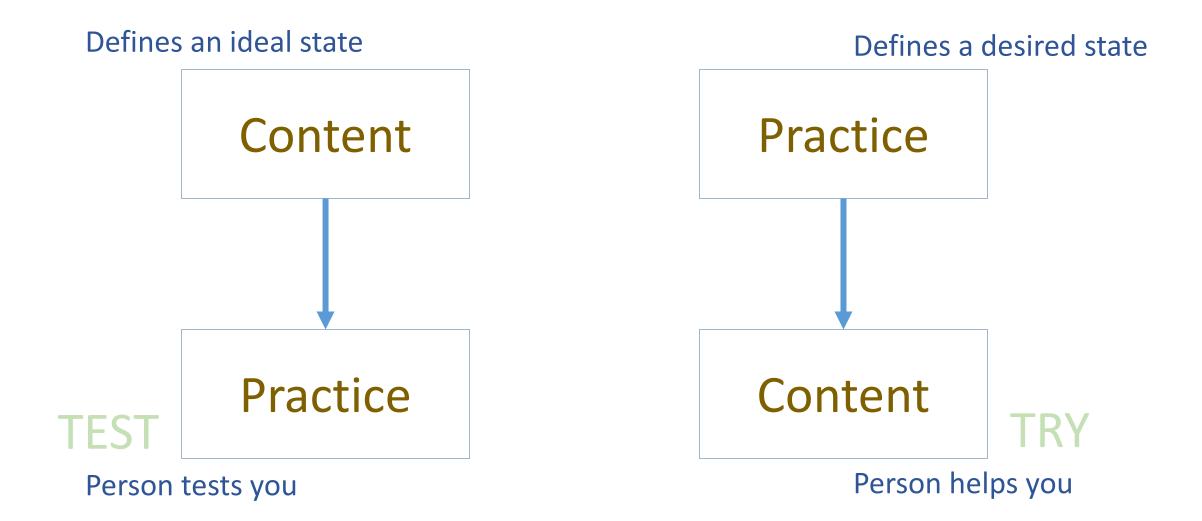


http://pertinenciaeducativa09.blogspot.ca/2009/10/educamp-colombiaaprendizaje-en-un.html

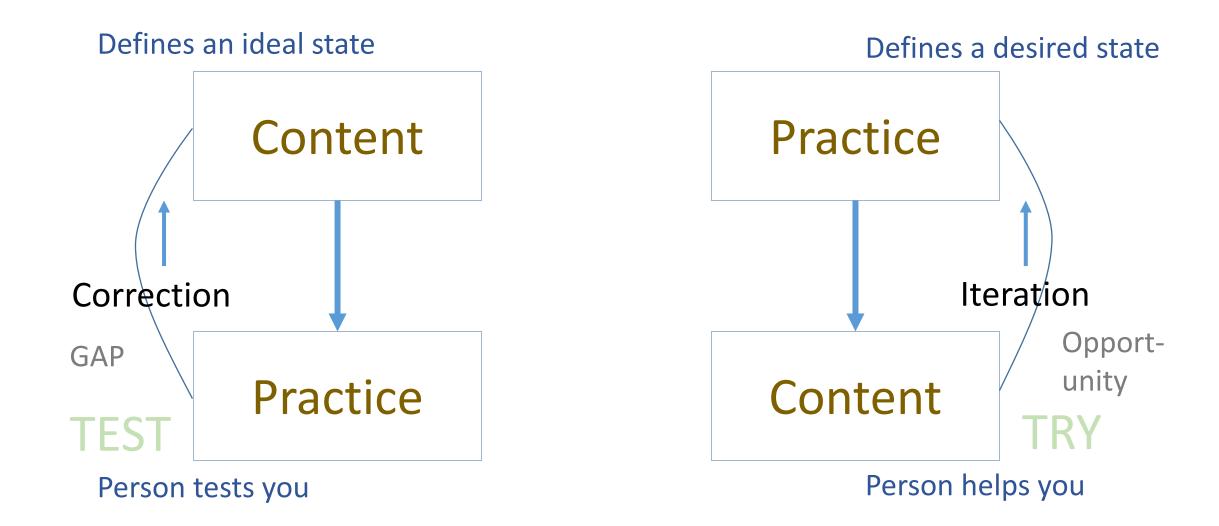
2. Two Approaches...



Two Approaches...

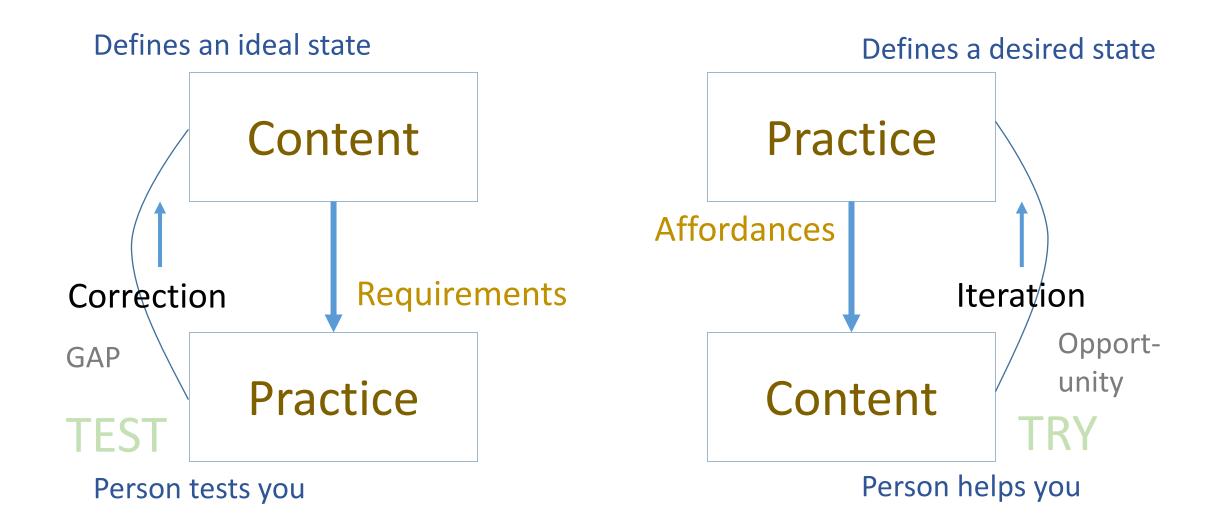


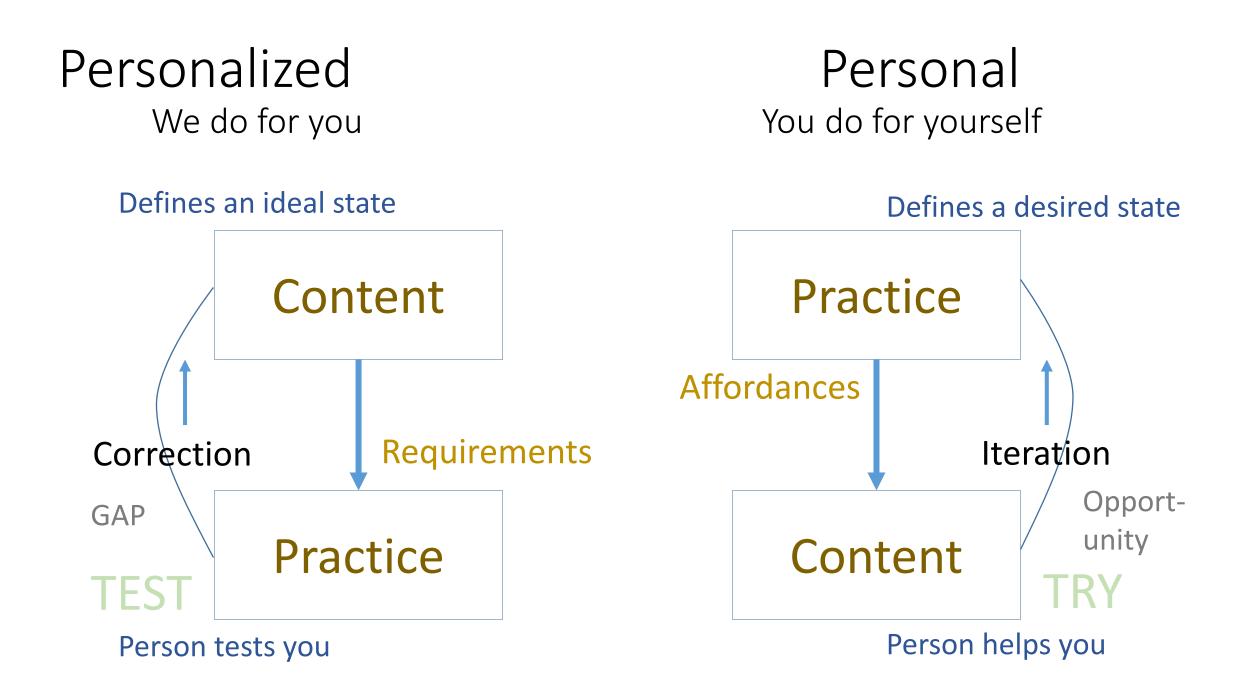
Two Approaches...



Library

Environment





Personal vs. Personalized

- Compare between:
 - Personalized health care (something the National Health Service or Health Management Organization provides)
 - Personal health care (something you do for yourself)
- Personal goals versus institutional goals
- Practice versus content

3. Learning Through Practice



Medical Simulations



http://www.army.mil/article/127148/

http://www.83degreesmedia.com/features/camls011012.aspx

Flight Simulators



http://www.cae.com/World-s-first-AW189-fullflight-simulator-ready-for-training/



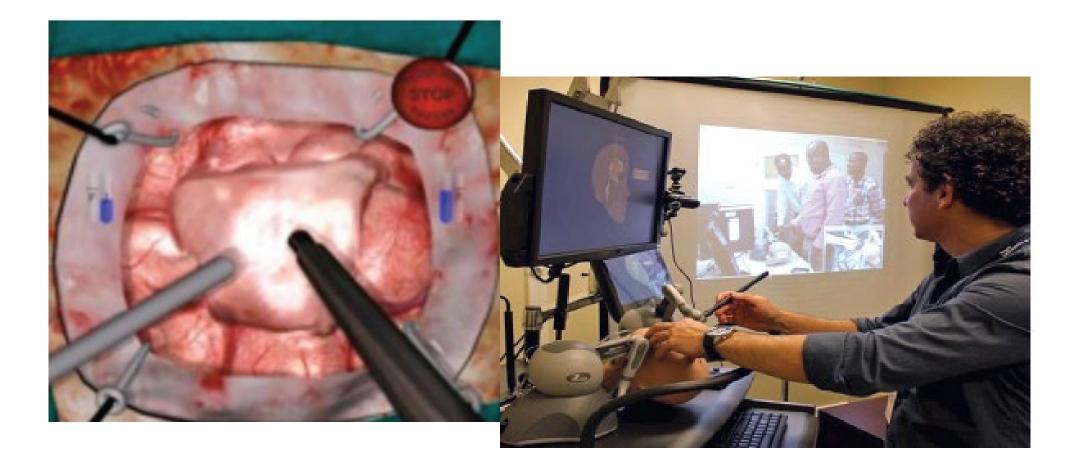
http://www.aiac.ca/canada-aerospace-industry/successstories/cae-nh90-helicopter-simulator/

MINT - Mobile INteractive Trainer



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

NeuroTouch Simulator



Sim-Welding

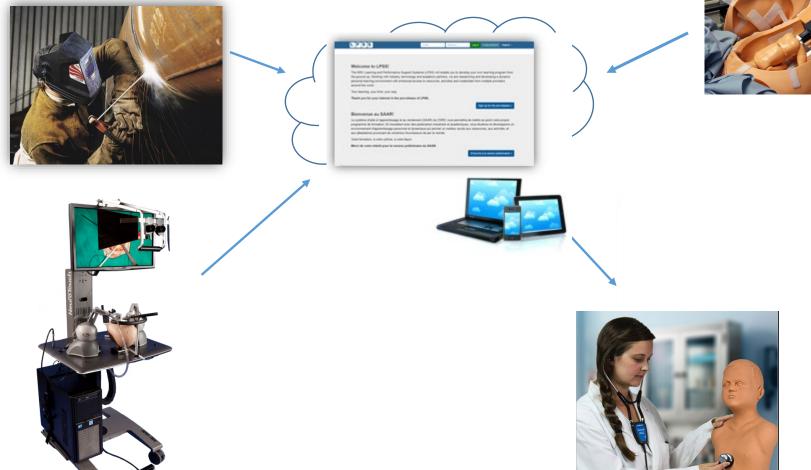


Auscultation



http://www.cardionics.com

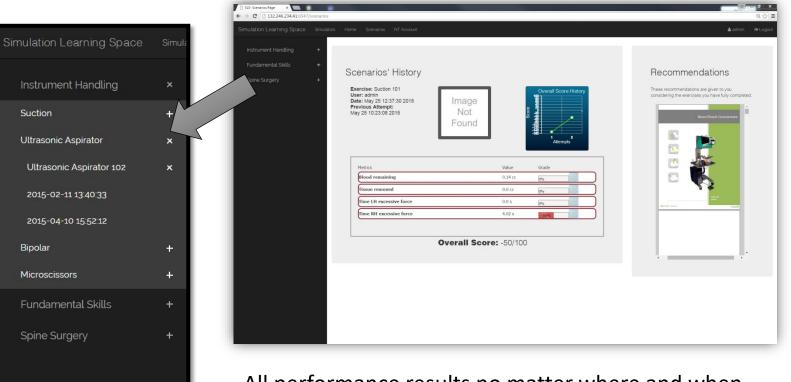
Personal Learning – The Concept





Combining Experiences

One place for all learning experiences



All performance results no matter where and when they were carried out

4. Learning Communities - the cMOOC

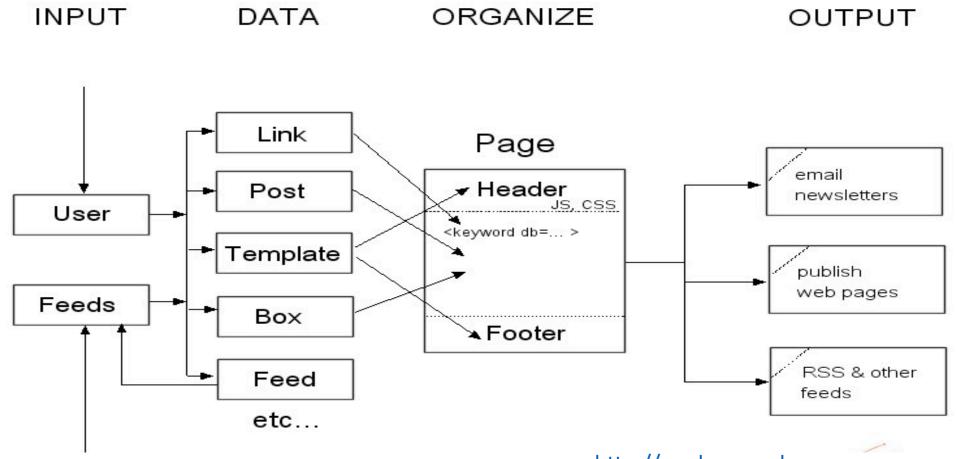


MOOC Design

- Course structure a series of topics
 - The instructors will not 'teach' the topics, they 'investigate' or 'work through' the topics (model and demonstrate)

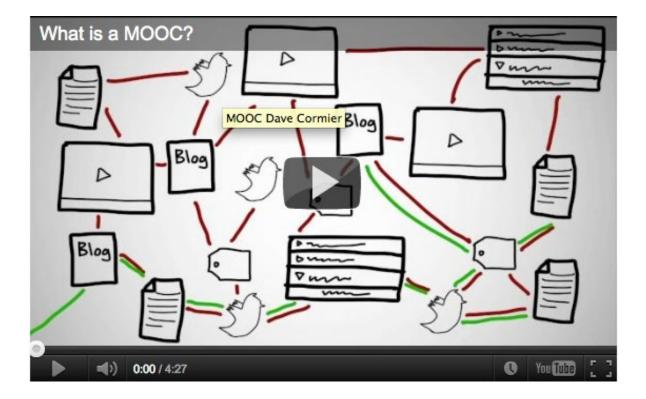


gRSShopper



http://grsshopper.downes.ca

How to Learn in a cMOOC

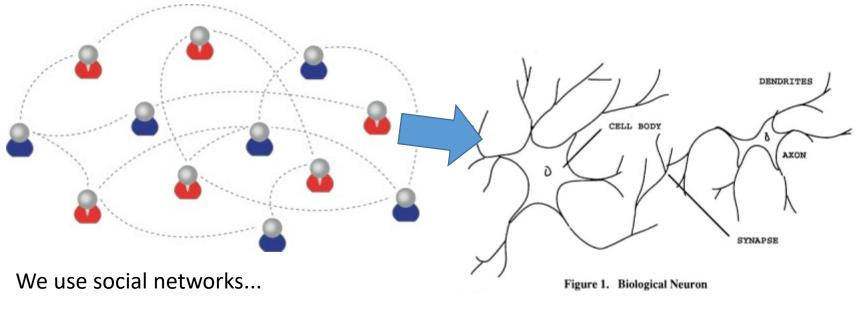


Learning is a process of immersion into a knowing community

http://www.tonybates.ca/2012/03/03/m ore-reflections-on-moocs-and-mitx/

How to Create a Learning

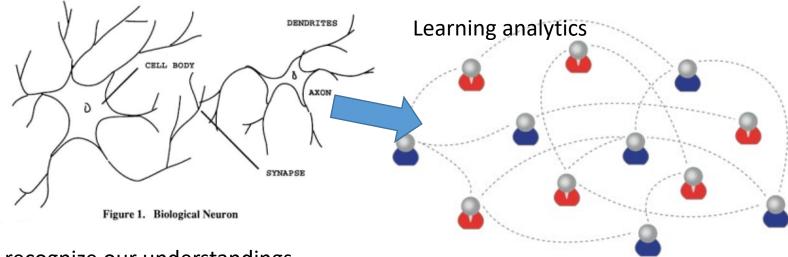
- It's like creating a network
- Don't centralize
- Concentrate on the creation of links



... to create personal knowledge

How to Evaluate Learning

- Learning is not possession of a collection of facts, it's the expression of a capacity
- Learning is recognized by a community of experts in a network



We recognize our understandings...

...by the way we use them in our social network

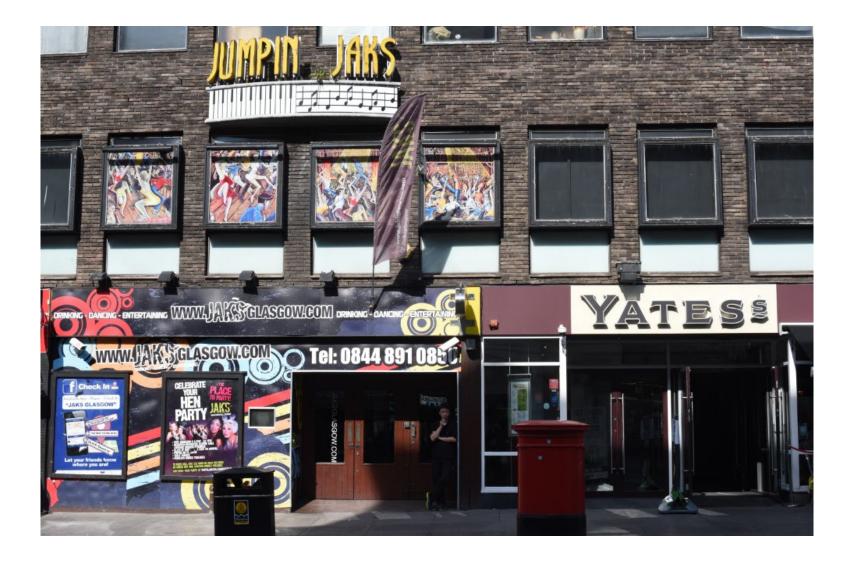
xLearning vs cLearning

contents networks engagement **COMMON CORE** PARTNERSHIP COMMUNICATION DARTICITATION PREPARING AMERICA'S STUDENTS FOR COLLEGE & CAREER http://www.corestandards.org/ ENGAGEMENT

http://www.magnet.edu/

http://lisahistory.net/wordpress/2012/08/three-kinds-of-moocs/

5. Personal Learning Environments



The design is based on putting the learner at the centre

Personal / Informal / Tacit knowledge

Personal devices

Introbile PDAII

personal heating, blogs.

Micros Lived

Towards Personal Control

Googia

LANK

PLE

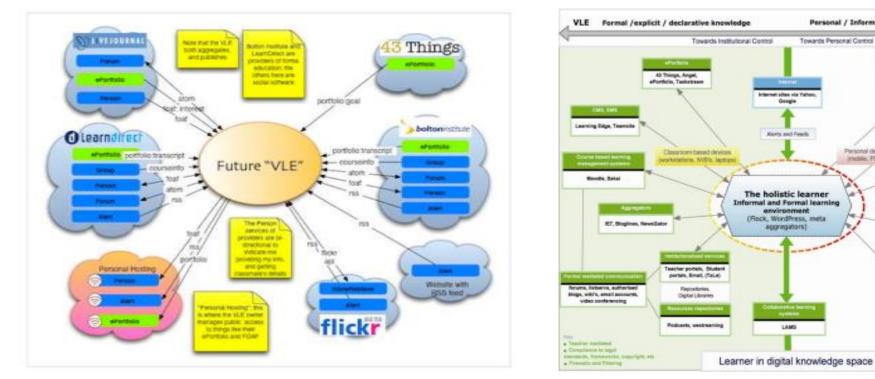
45 Things, Angel

pai, Plans, Sr FostNuk

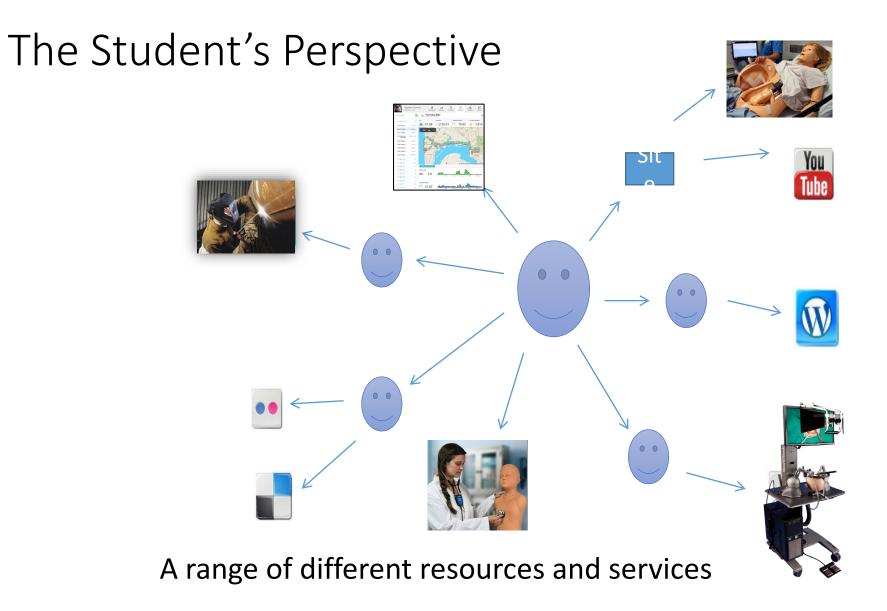
MS. MRS. chat. IM. VOI Shupe, Meeter

Delicia.us, Flishr, Frappi

«Posthilo, Task



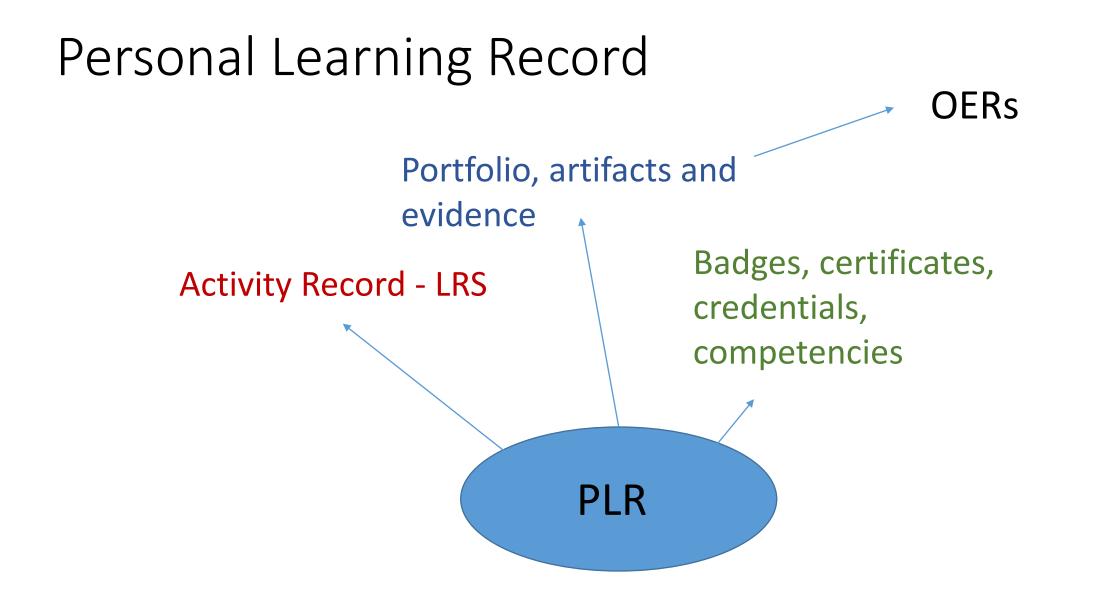
Scott Wilson (left), Tim Hand (right) https://www.google.com/search?q=ple+diagrams http://www.edtechpost.ca/ple_diagrams/index.php/mind-map-3



Personal Learning Record

The Personal Learning Record – data owned by the individual, shared only with permissions

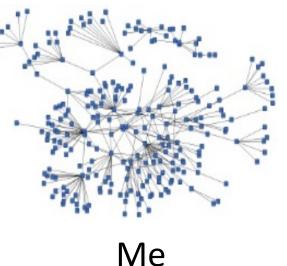




LPSS is Built Around the Personal Learning Record

This is a *new* type of data – we call it the *personal graph*.

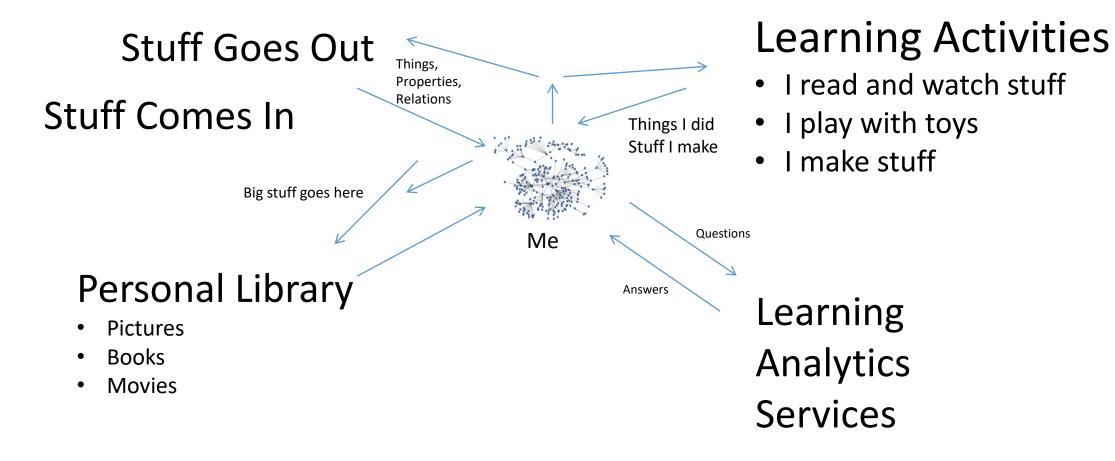
Each person has their own *private* personal graph.



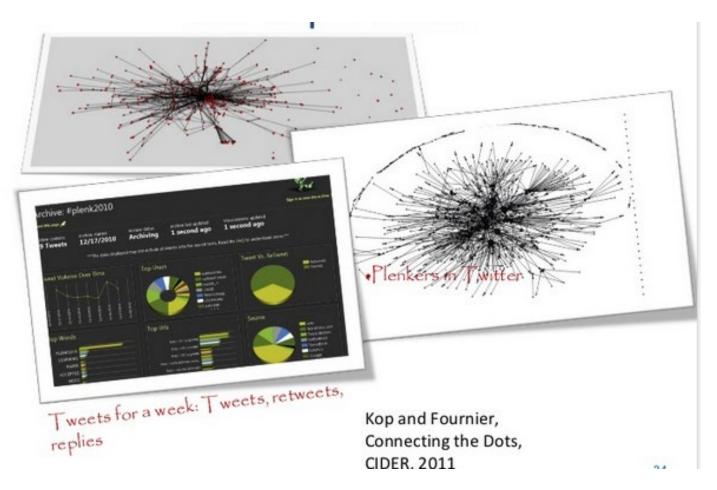
The PLR contains all a person's learning records, including:

- certificates, badges and credentials
- activity records, test results, scores
- Assignments, papers, drawings, things they create

LPSS is Built Around the Personal Learning Record

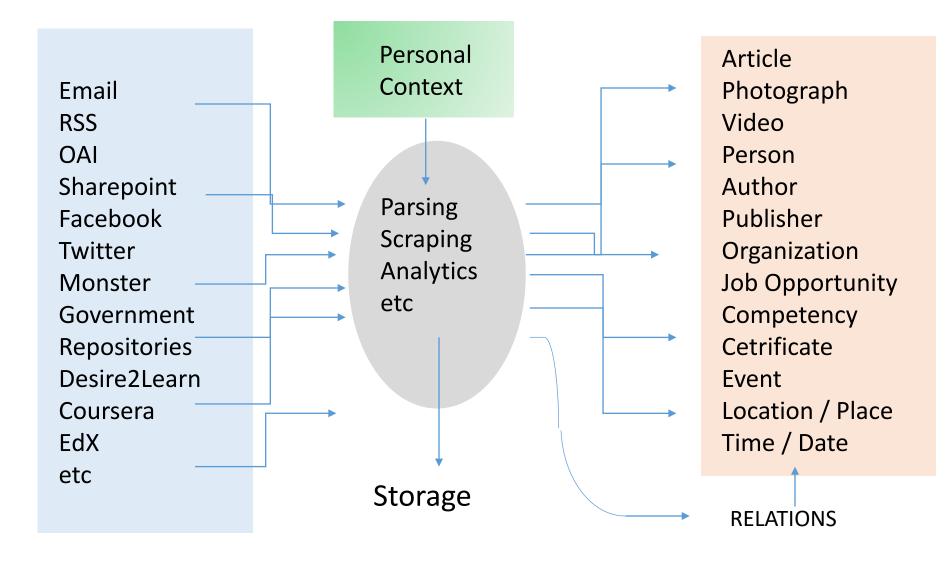


Plearn – Importance of the Graph



http://www.slideshare.net/Downes/after-moodle http://www.slideshare.net/Ritakop/kopfourniercanadianinstitutedistanceeducationresearchple

Graph Aggregation and Storage



Future Projects...

- OERs, Repositories, Marketplaces
- Badges, Credentials, Recognition
- Simulations & Workplace Support
- Matching People to Opportunities





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