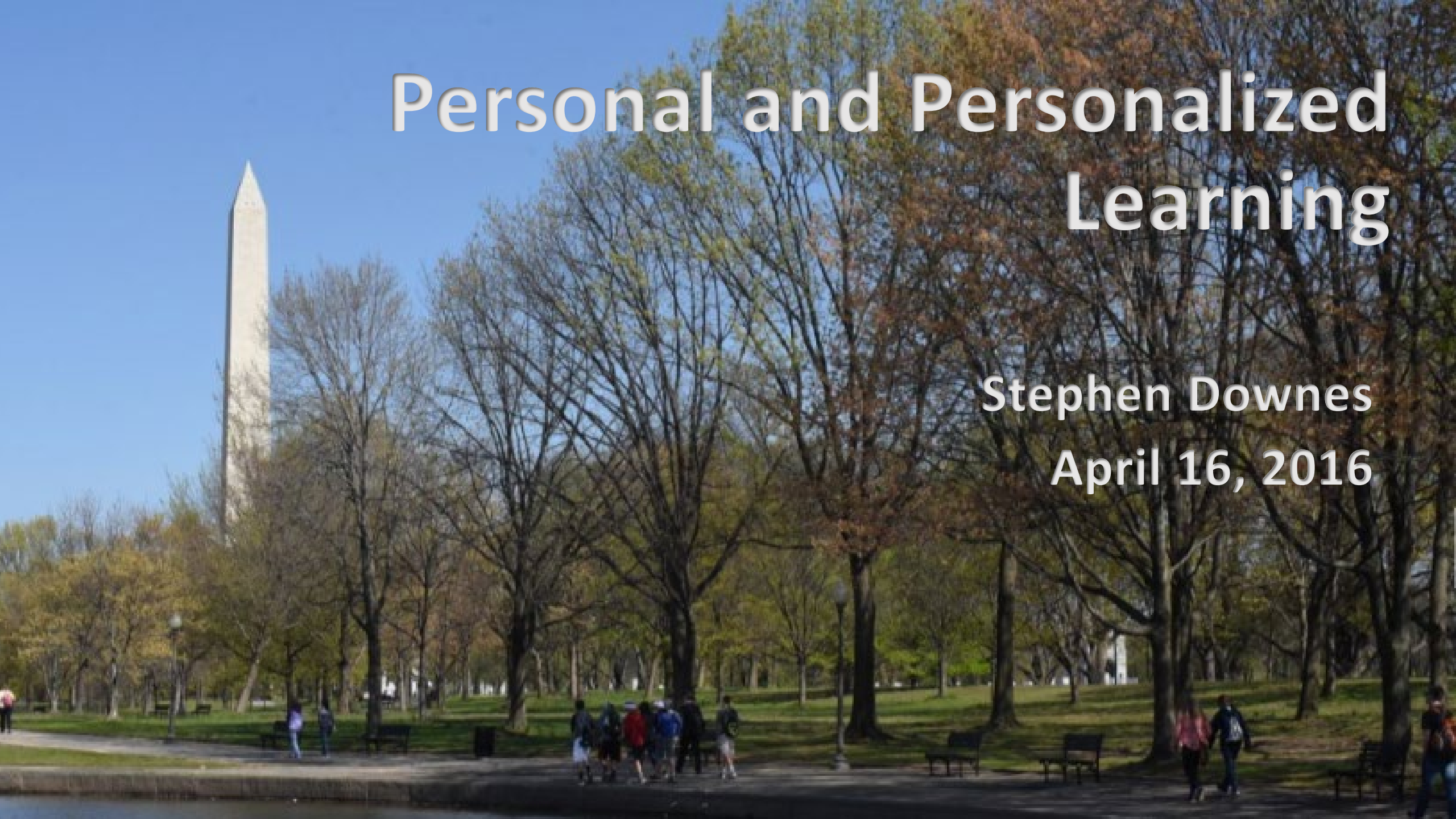


Personal and Personalized Learning

Stephen Downes

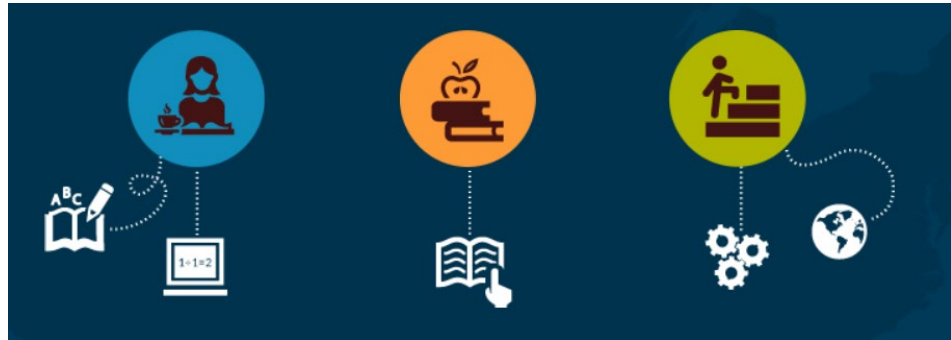
April 16, 2016



1. Learning is Personal



Standardized Learning



The Standards' refers to all elements of the design – the wording of domain headings, cluster headings, and individual statements... The pieces are designed to fit together, and the standards document fits them together...

Publishers' Criteria for the Common Core State Standards for Mathematics (July 2012)
https://ldc.org/sites/default/files/mctighe_wiggins_final_common_core_standards_0.pdf

Knowledge Translation

“...defined as a dynamic and iterative process that includes synthesis, dissemination, exchange and ethically-sound application of knowledge”

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

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.

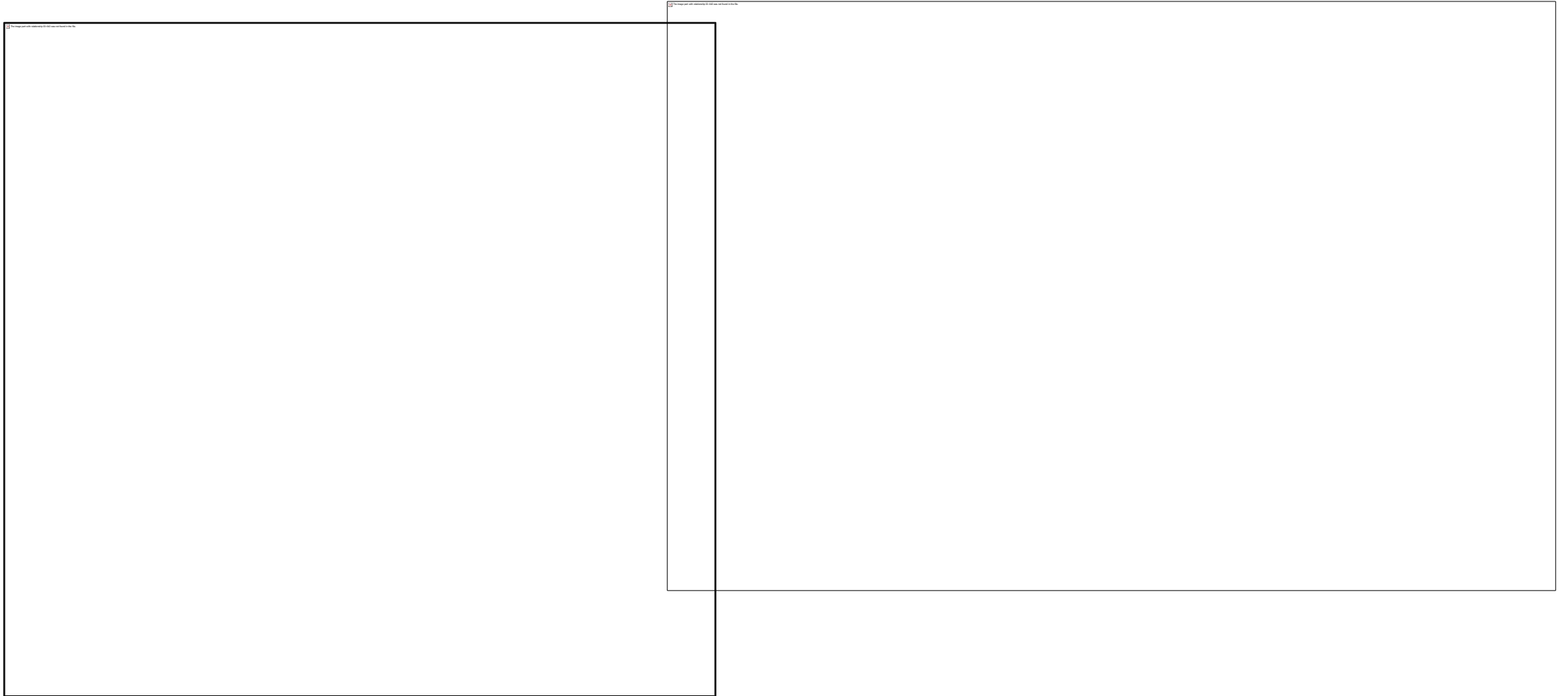
<http://www.downes.ca/post/65131>

<http://fivethirtyeight.com/features/science-isnt-broken/#part2>

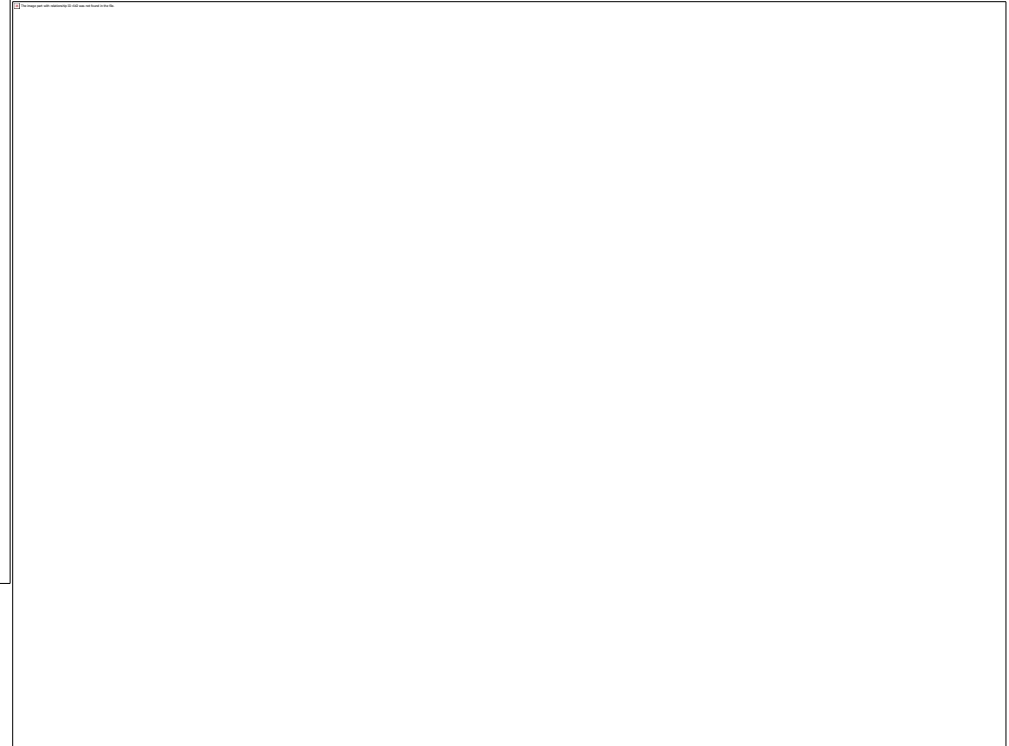
Criticisms...

- “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



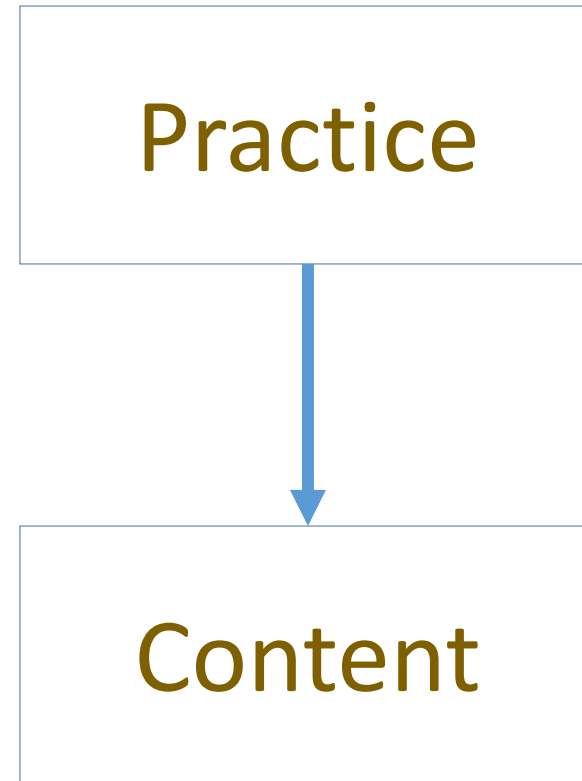
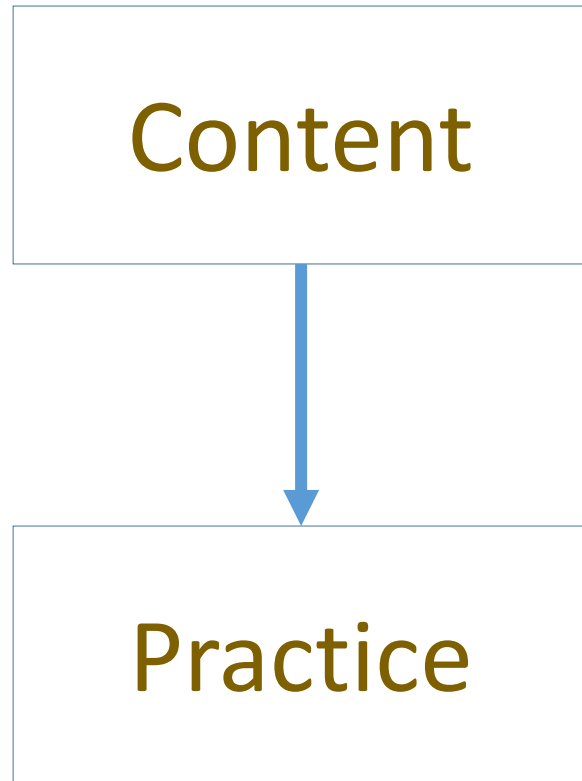
<http://pertinenciaeducativa09.blogspot.ca/2009/10/educamp-colombia-aprendizaje-en-un.html>



<http://www.flickrriver.com/photos/qadmon/3106848811/>

<http://www.irrodl.org/index.php/irrodl/article/view/884/1677>

2. Two Approaches...



Two Approaches...

Defines an ideal state

Content



Practice

TEST

Person tests you

Defines a desired state

Practice

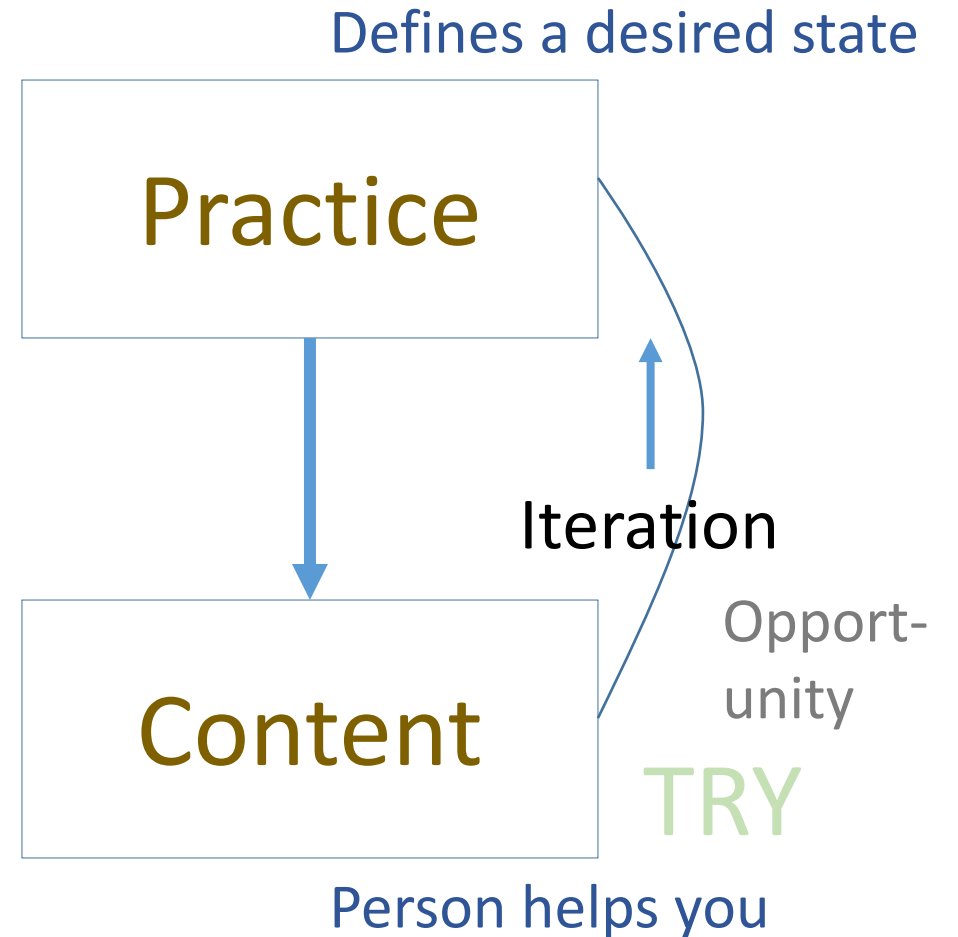
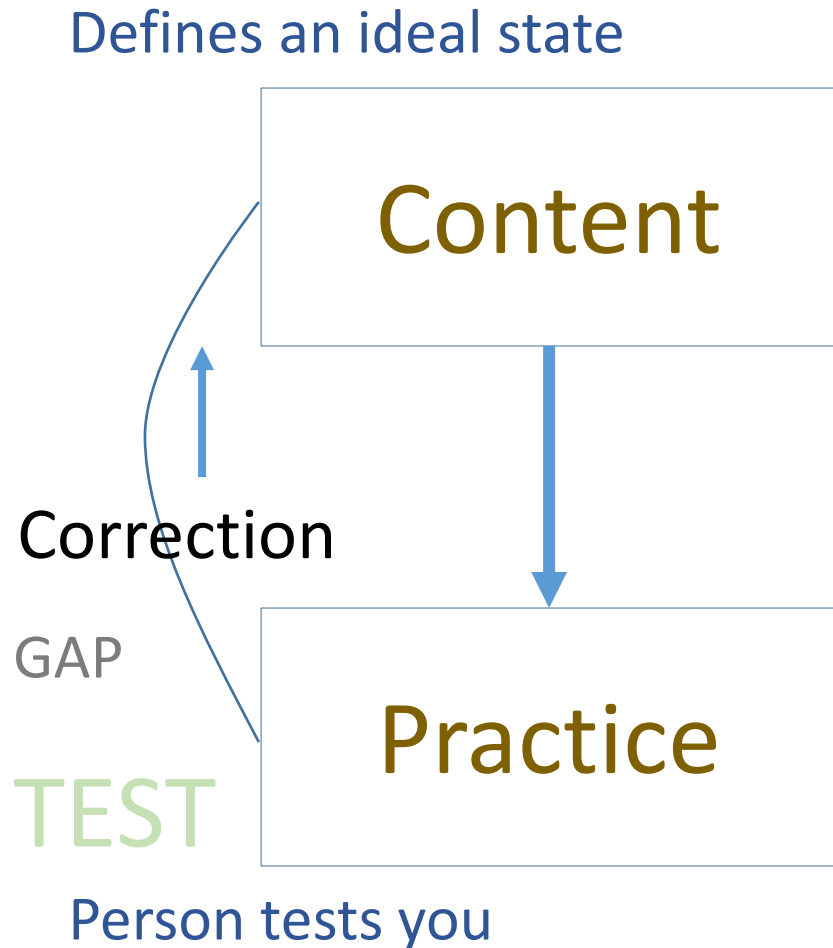


Content

TRY

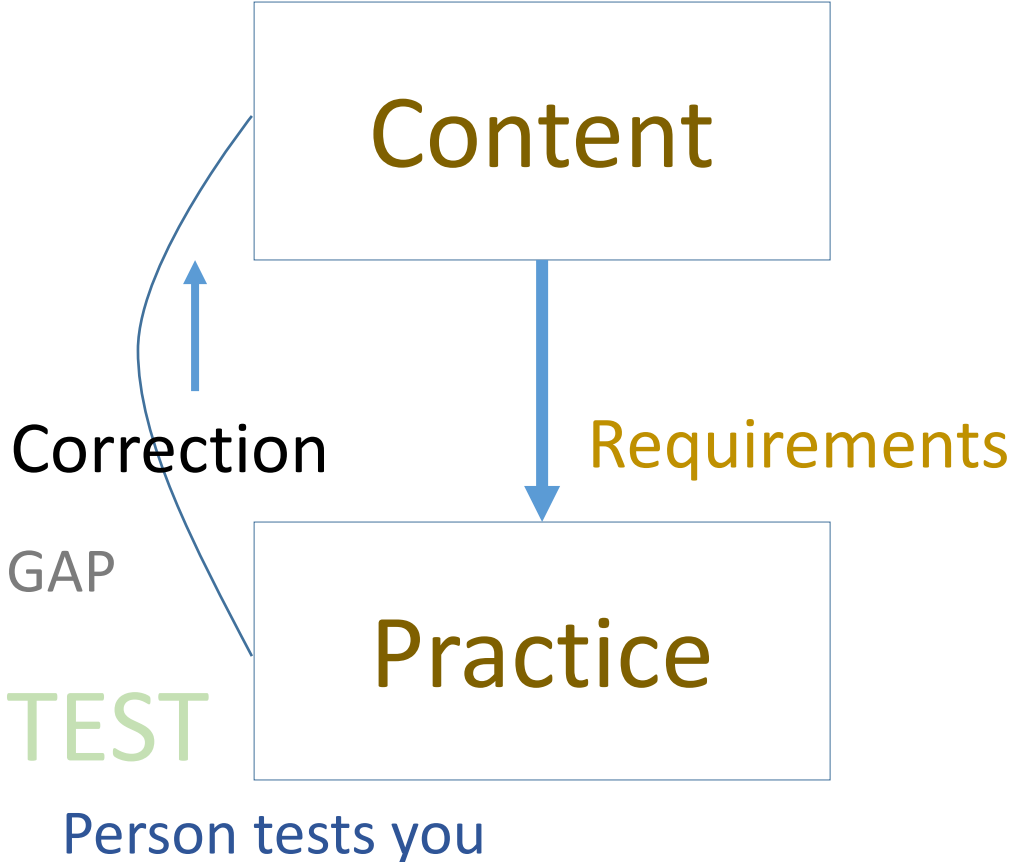
Person helps you

Two Approaches...



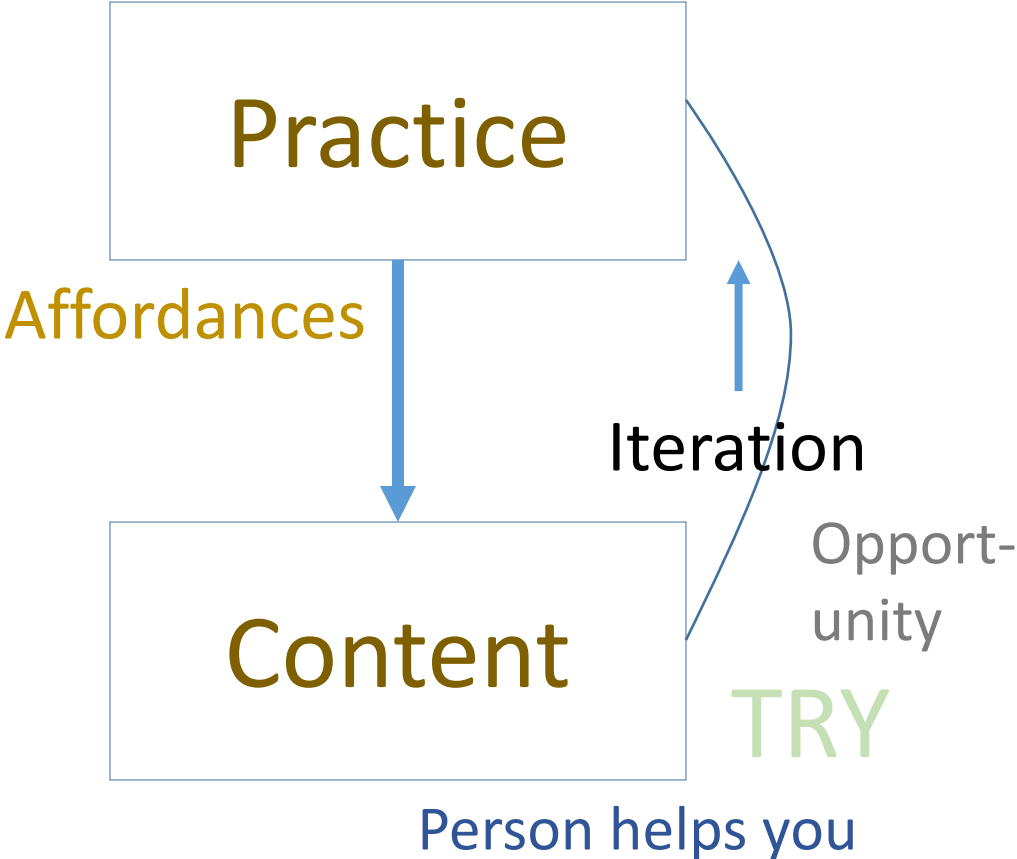
Library

Defines an ideal state



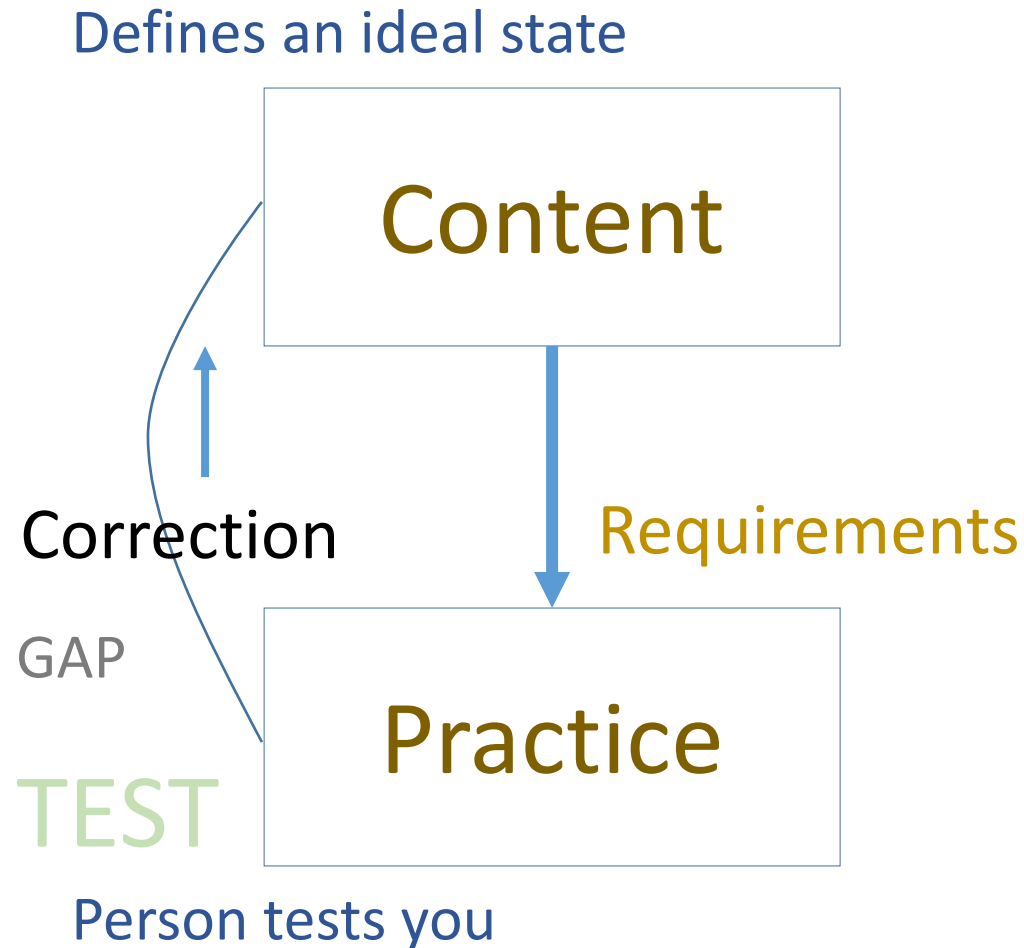
Environment

Defines a desired state



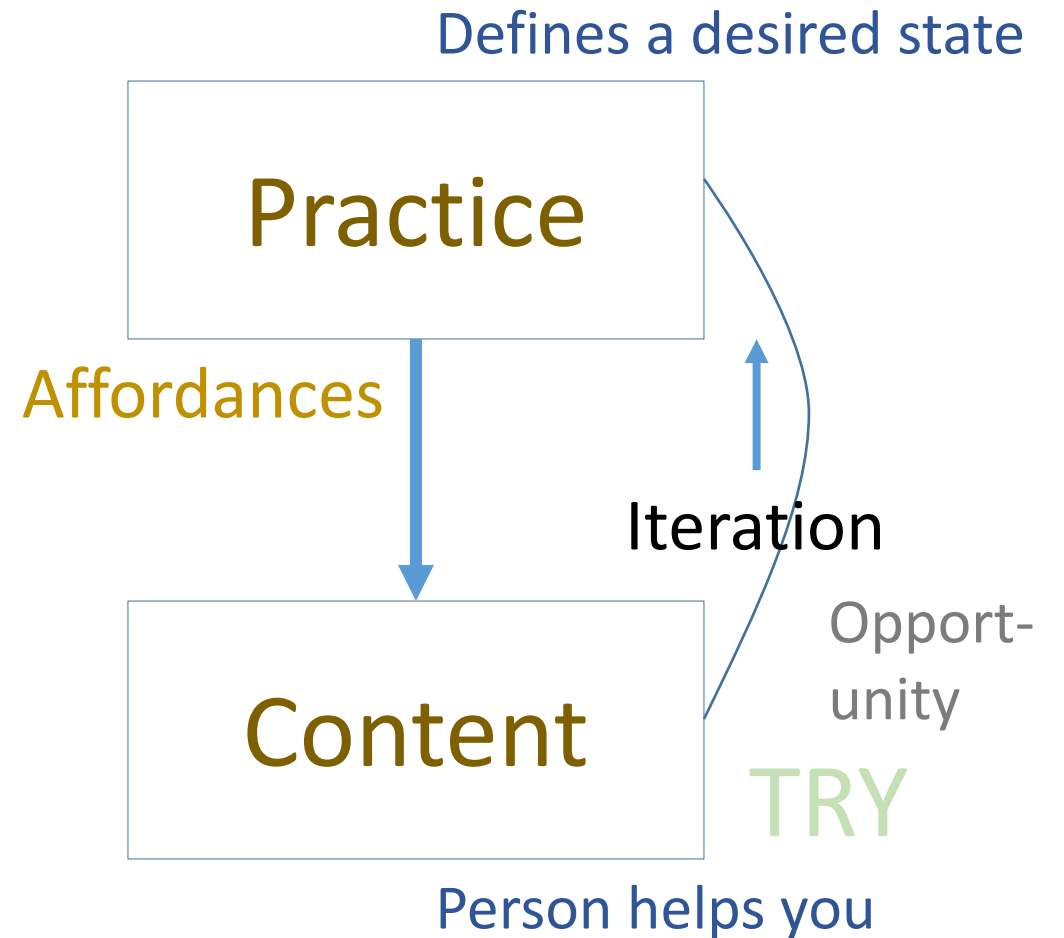
Personalized

We do for you



Personal

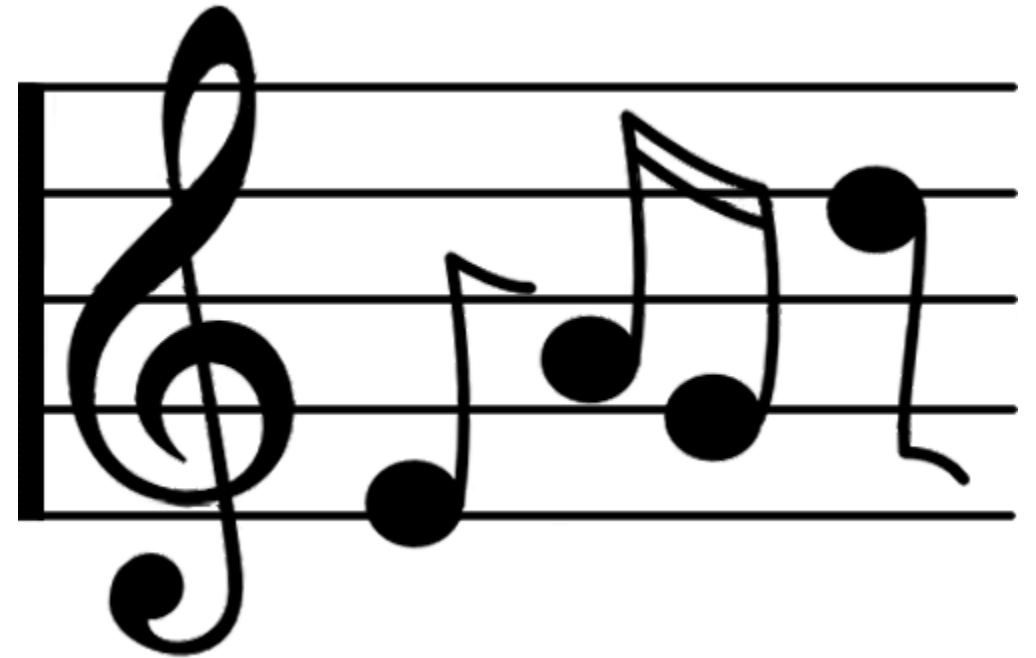
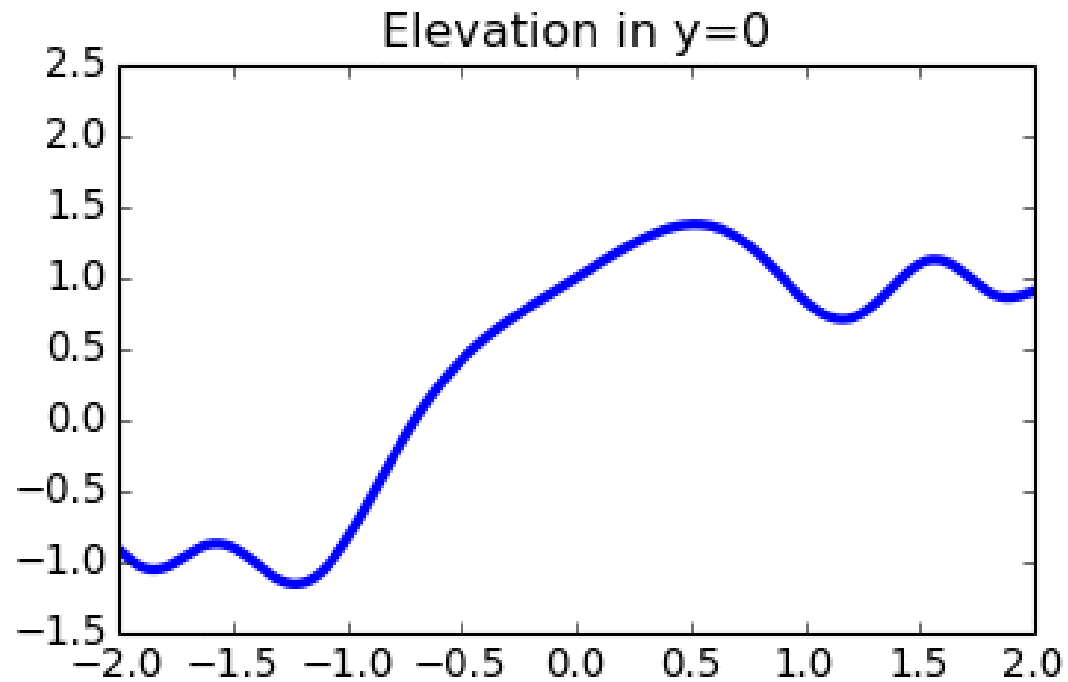
You do for yourself



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/>

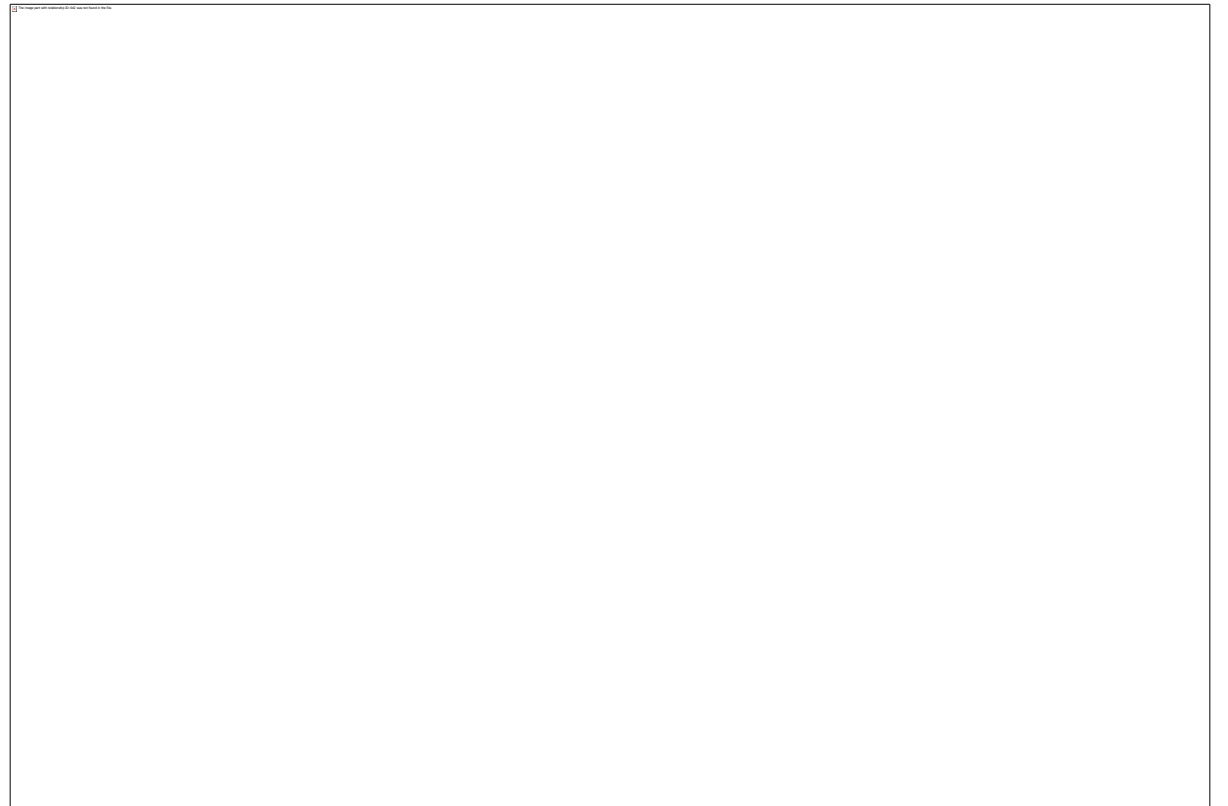


<http://www.83degreesmedia.com/features/camls011012.aspx>

Flight Simulators



<http://www.cae.com/World-s-first-AW189-full-flight-simulator-ready-for-training/>



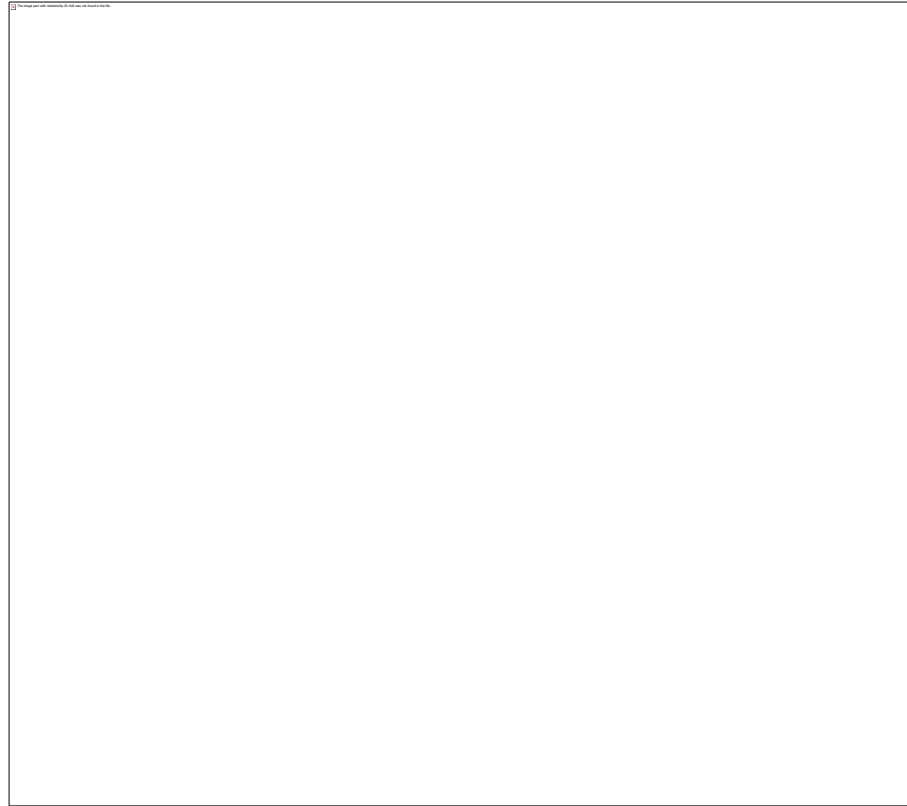
<http://www.aiac.ca/canada-aerospace-industry/success-stories/cae-nh90-helicopter-simulator/>

MINT - Mobile INteractive Trainer

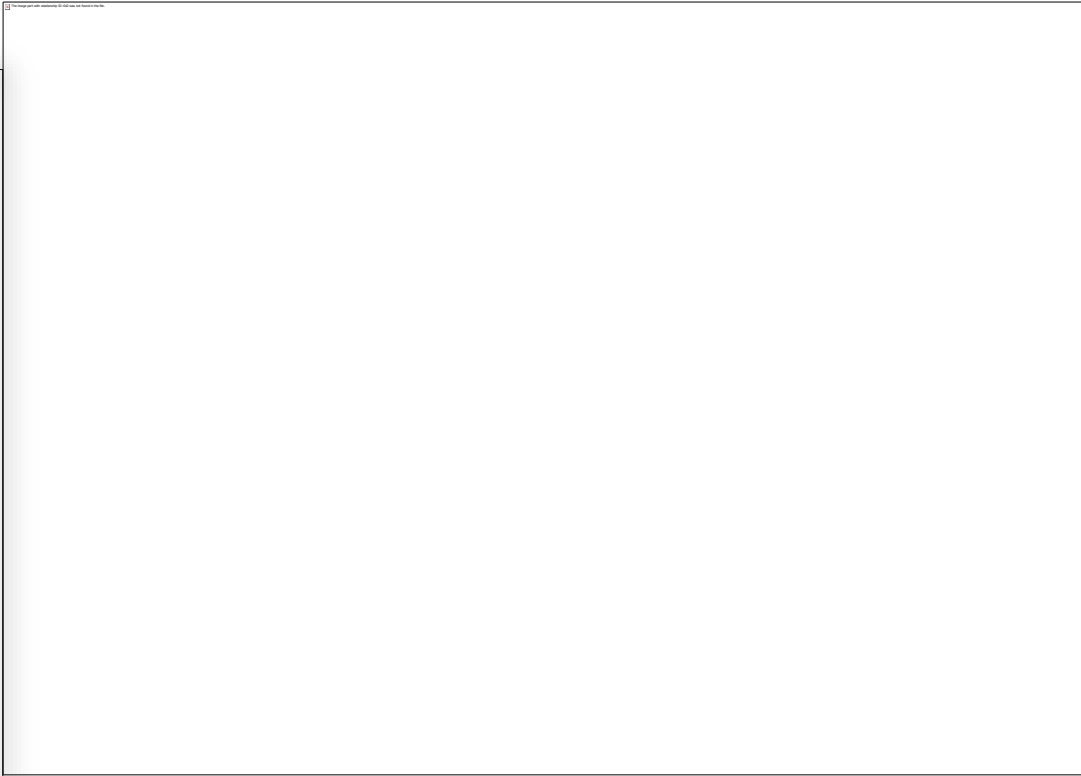


<http://www.downes.ca/post/59876>

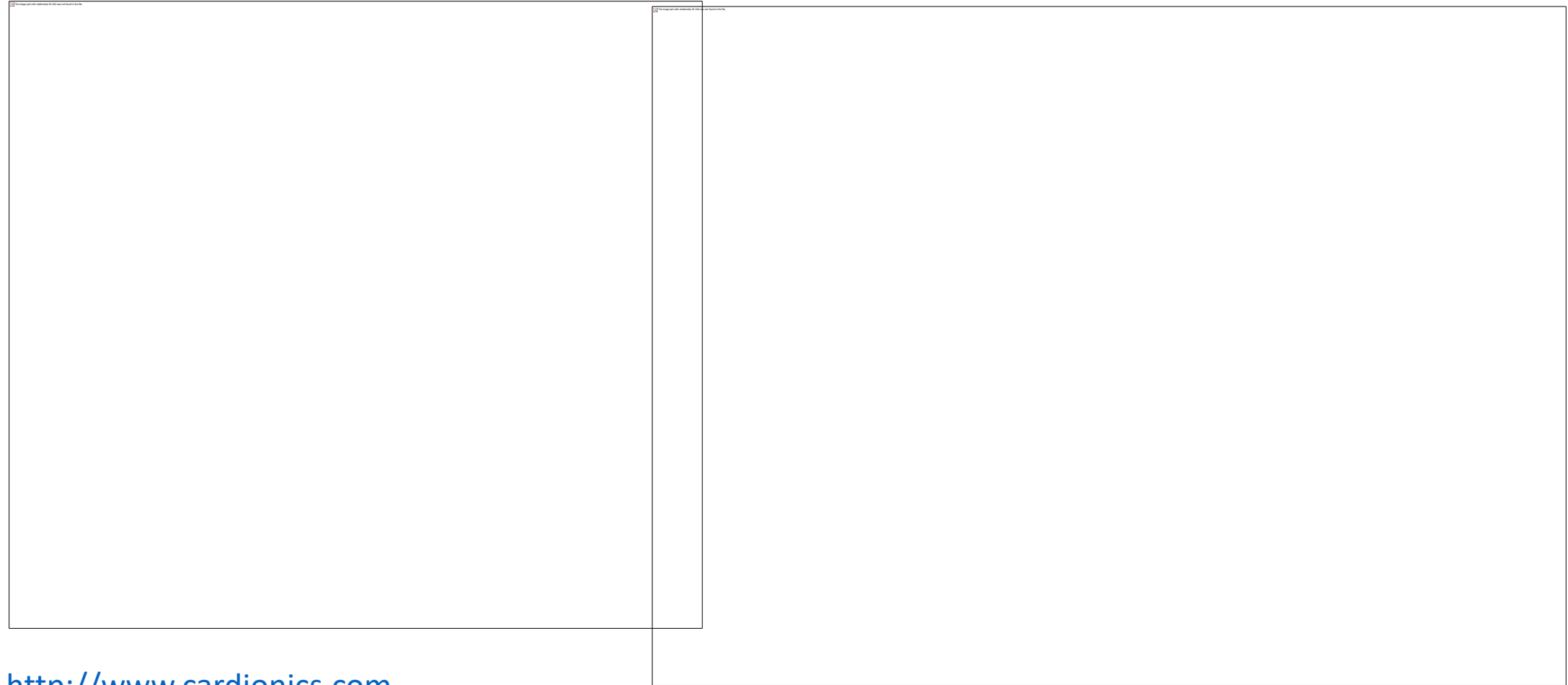
NeuroTouch Simulator



Sim-Welding

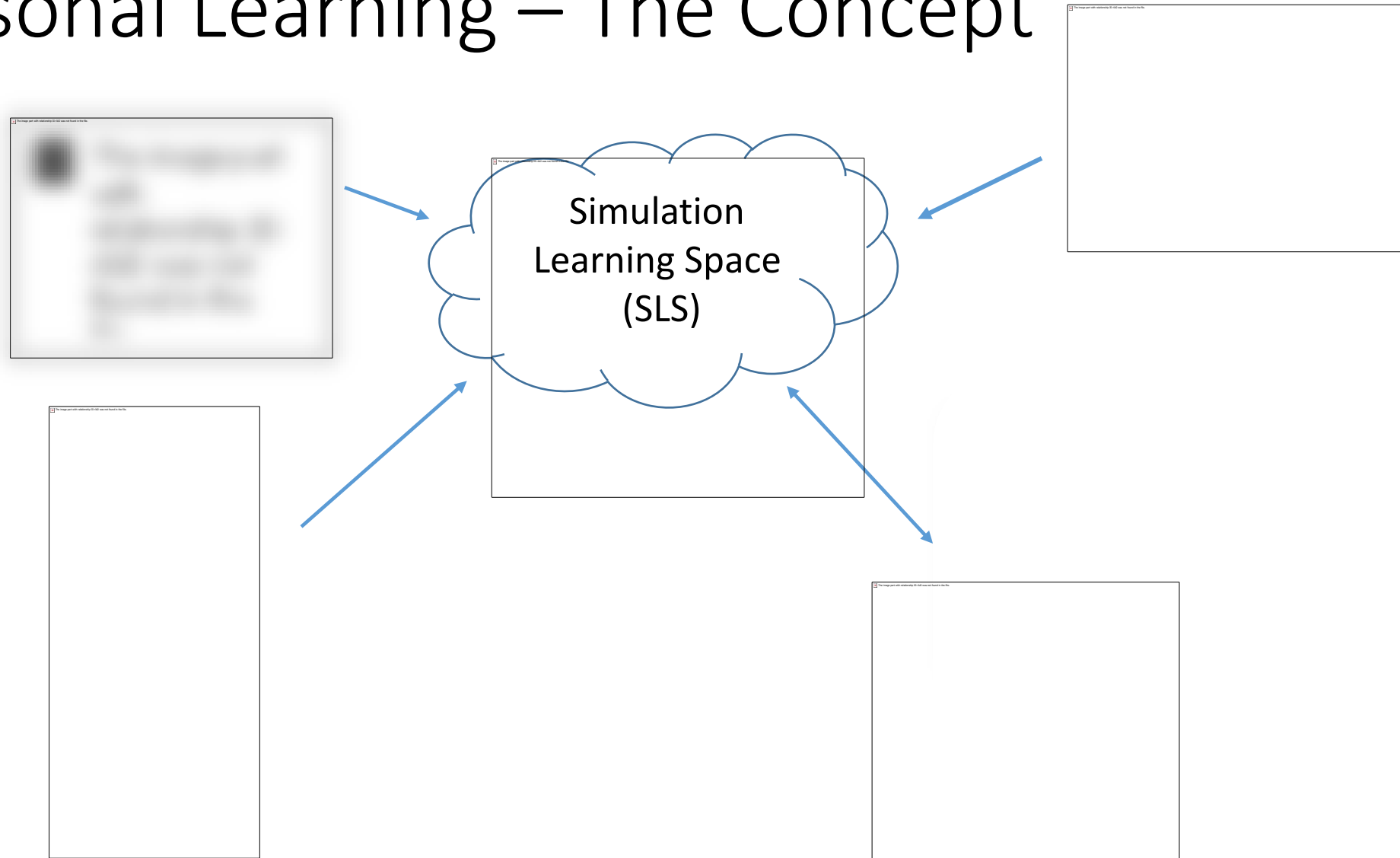


Auscultation



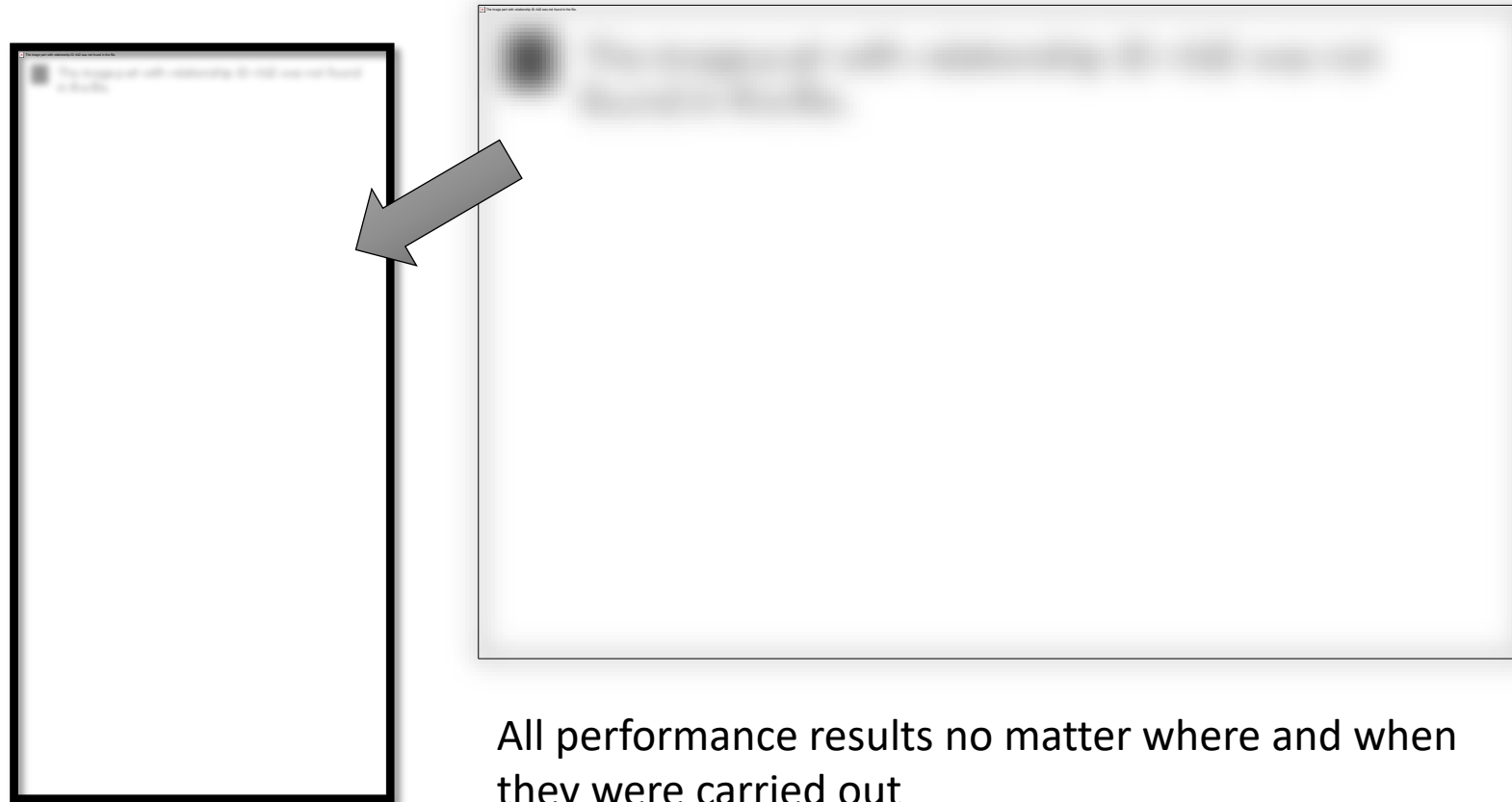
<http://www.cardionics.com>

Personal Learning – The Concept



Combining Experiences

One place for all learning experiences

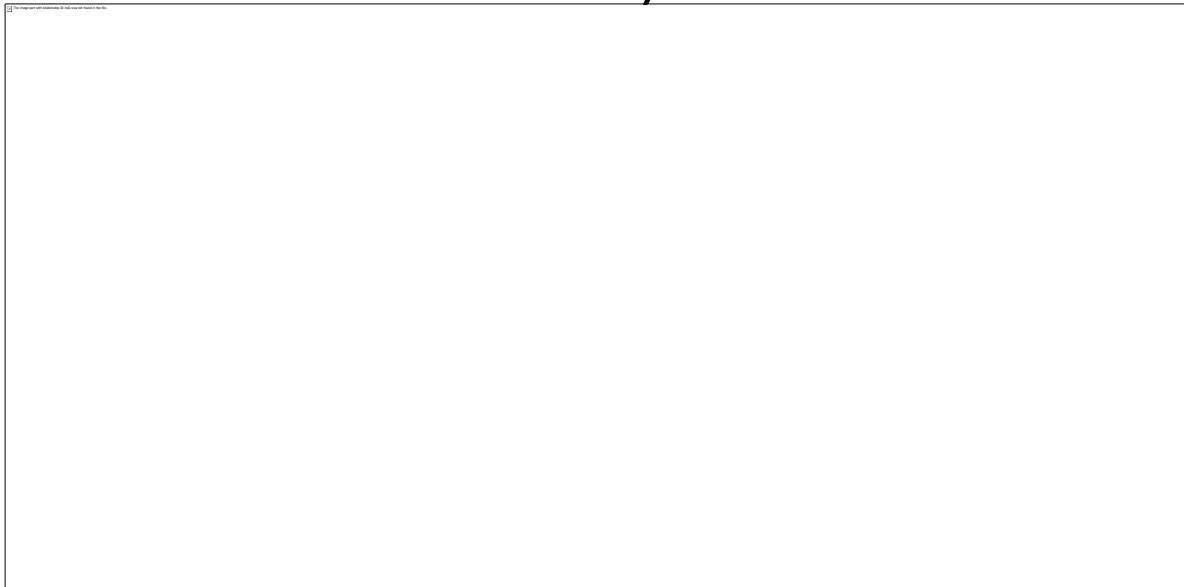


4. Learning Communities - the cMOOC



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)



xLearning vs cLearning



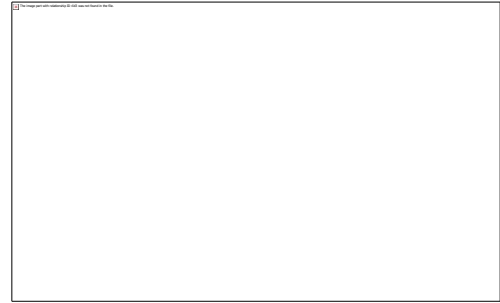
contents

engagement

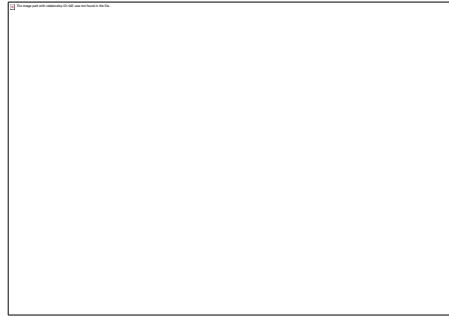
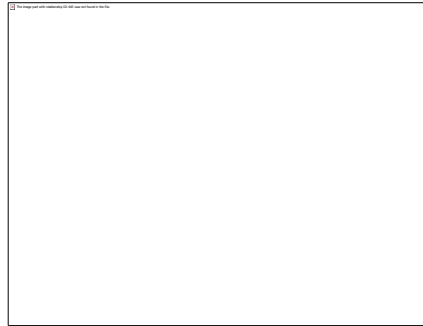
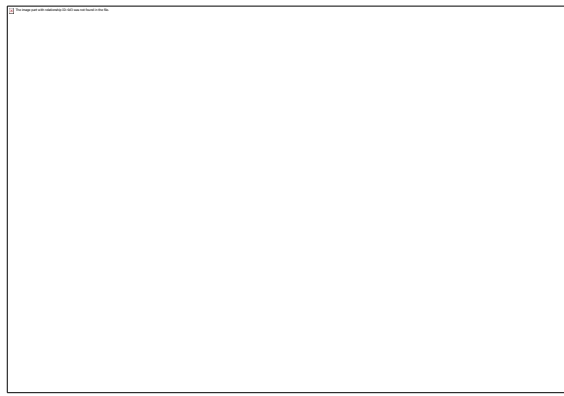
networks



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



<http://www.magnet.edu/>

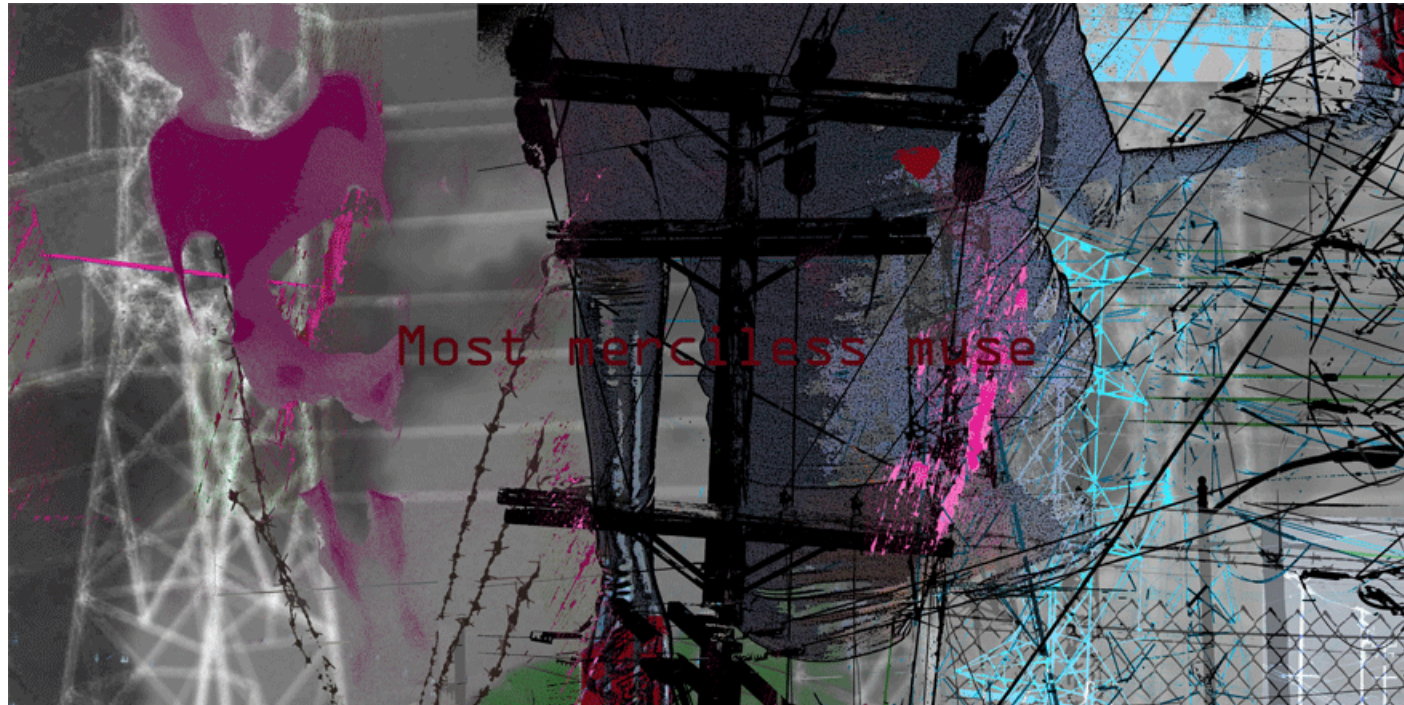


<http://lisahistory.net/wordpress/2012/08/three-kinds-of-moocs/>



It is essential to immerse oneself in the day-to-day activities and culture of the people who speak it.

Aggregation



Each person creates their own perspective on the material by selecting what seems important to them.

Remixing



What we are encouraging here especially is a mixing of diverse cultures.

Adaptation



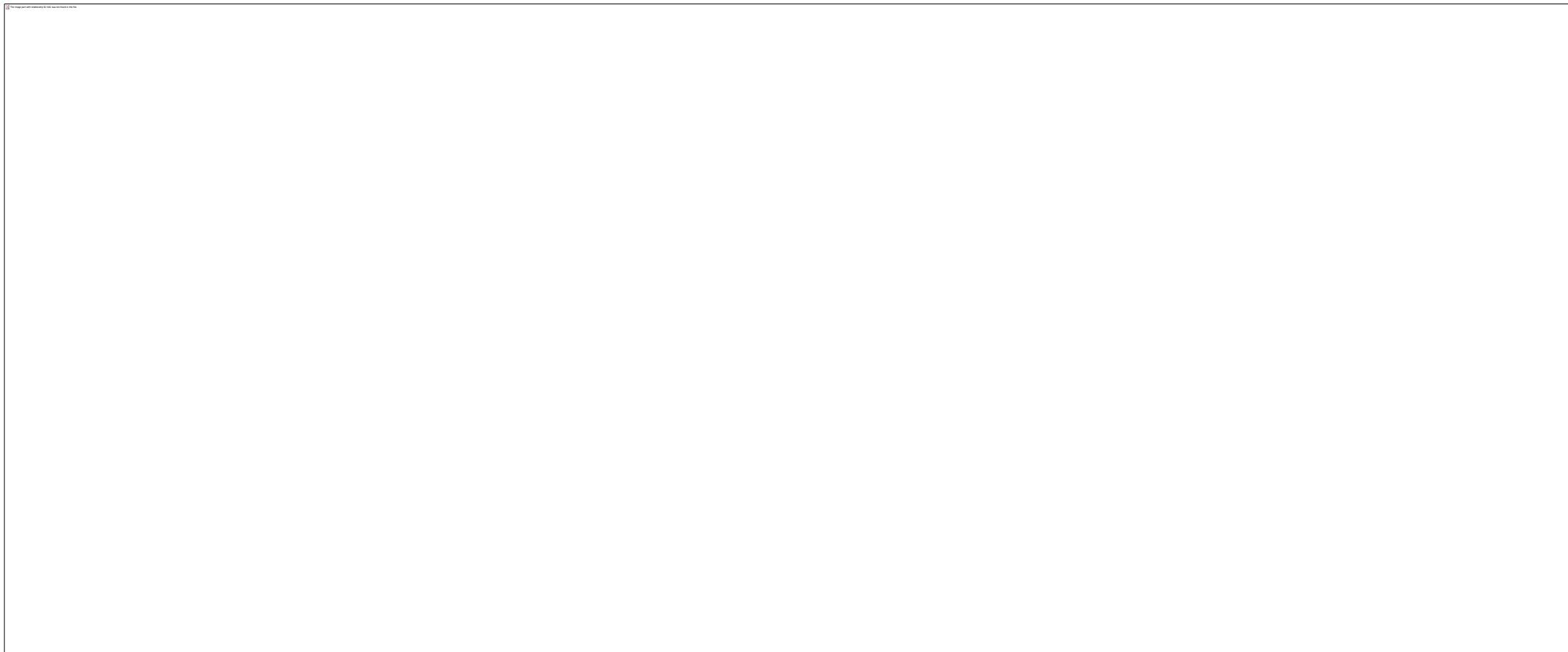
Learning is not simply a process of reception and filtering.



Feeding Forward

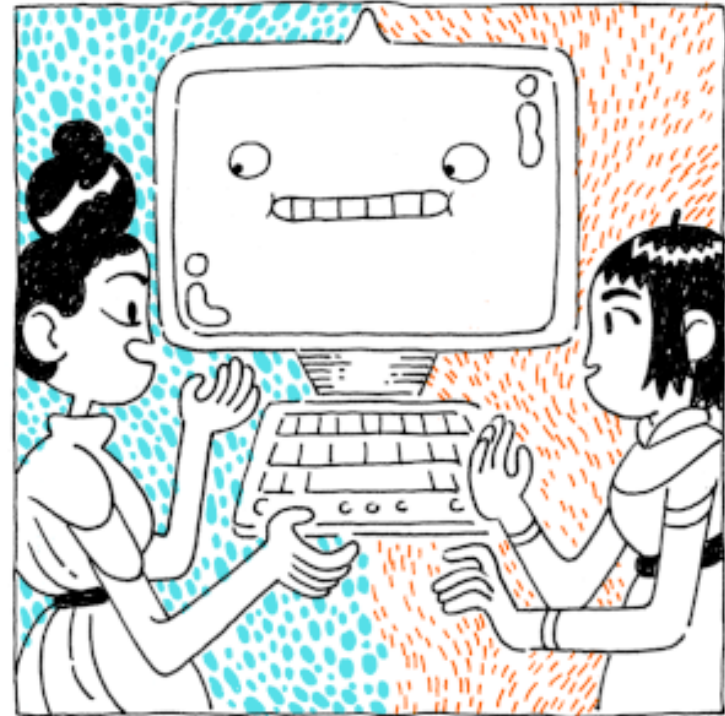
Sharing in public is harder.
But it's better.

gRSShopper



<http://grsshopper.downes.ca>

How to Learn in a cMOOC

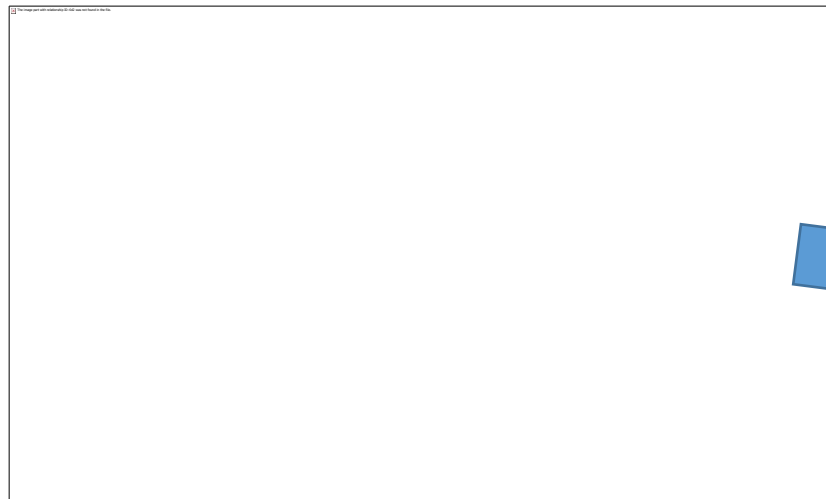


Learning is a process of immersion into a knowing community

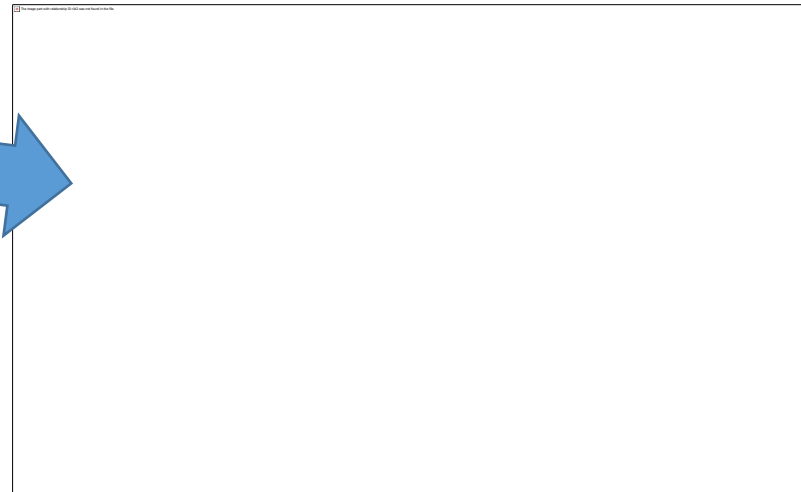
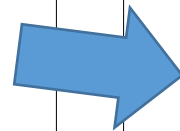
<http://www.tonybates.ca/2012/03/03/more-reflections-on-moocs-and-mitx/>

How to Create a Learning

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



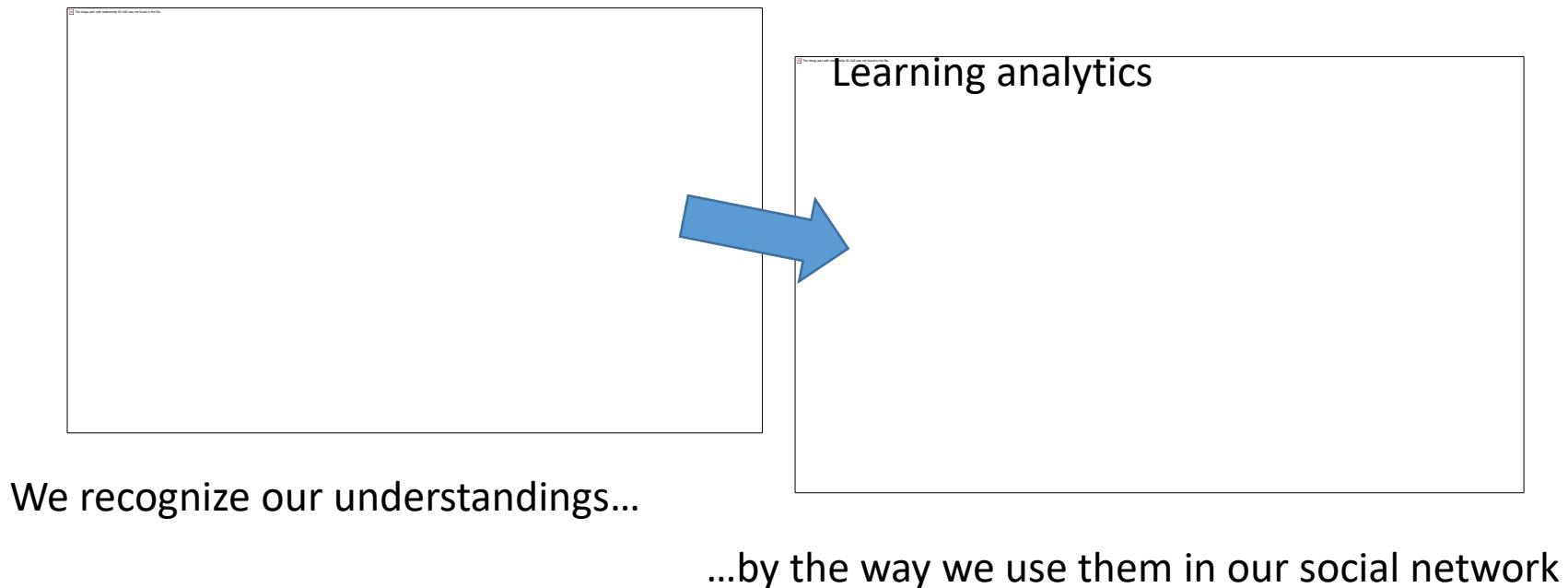
We use social networks...



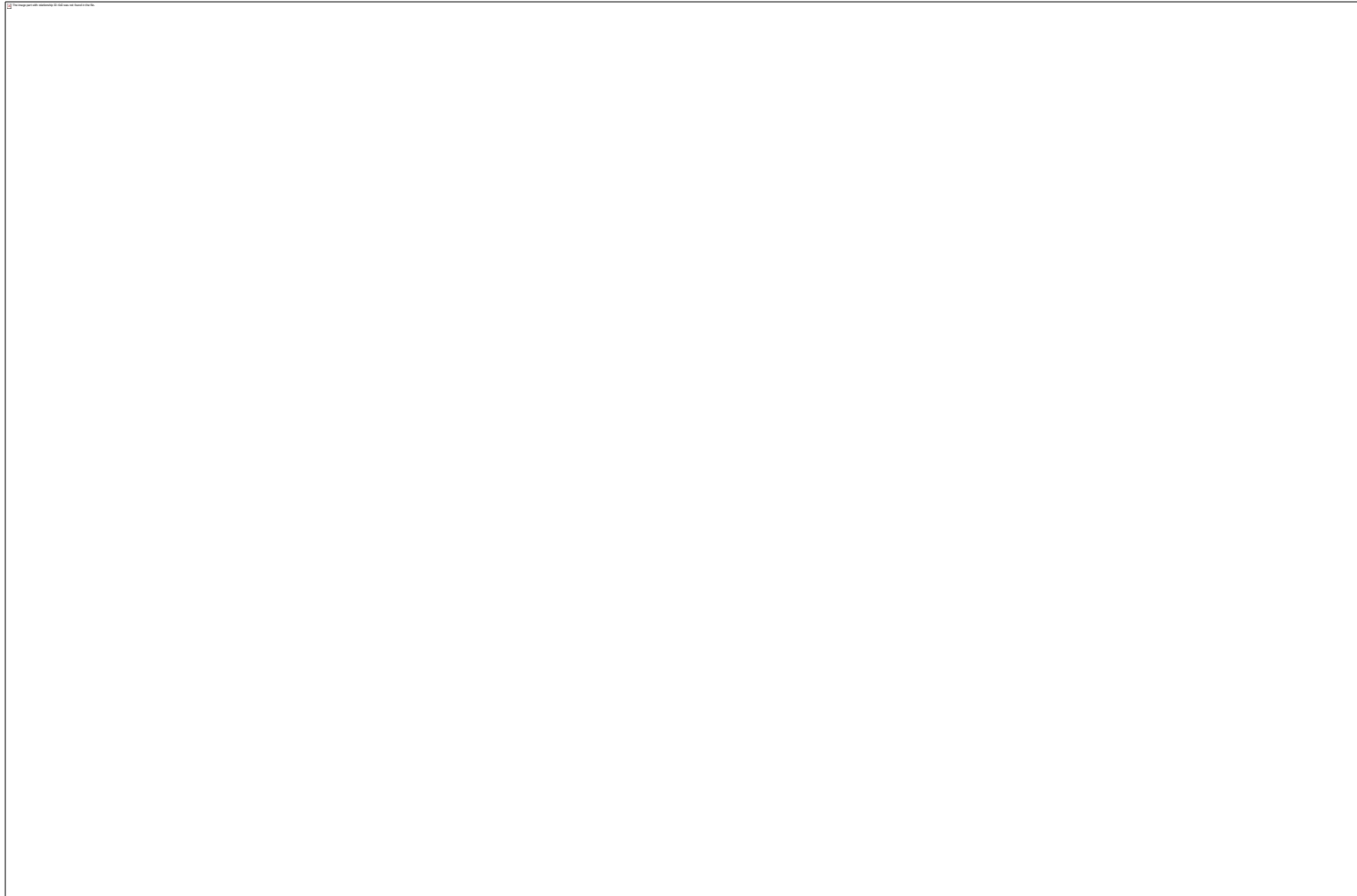
... to create personal knowledge

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



5. Personal Learning Environments



The design is based on putting the learner at the centre

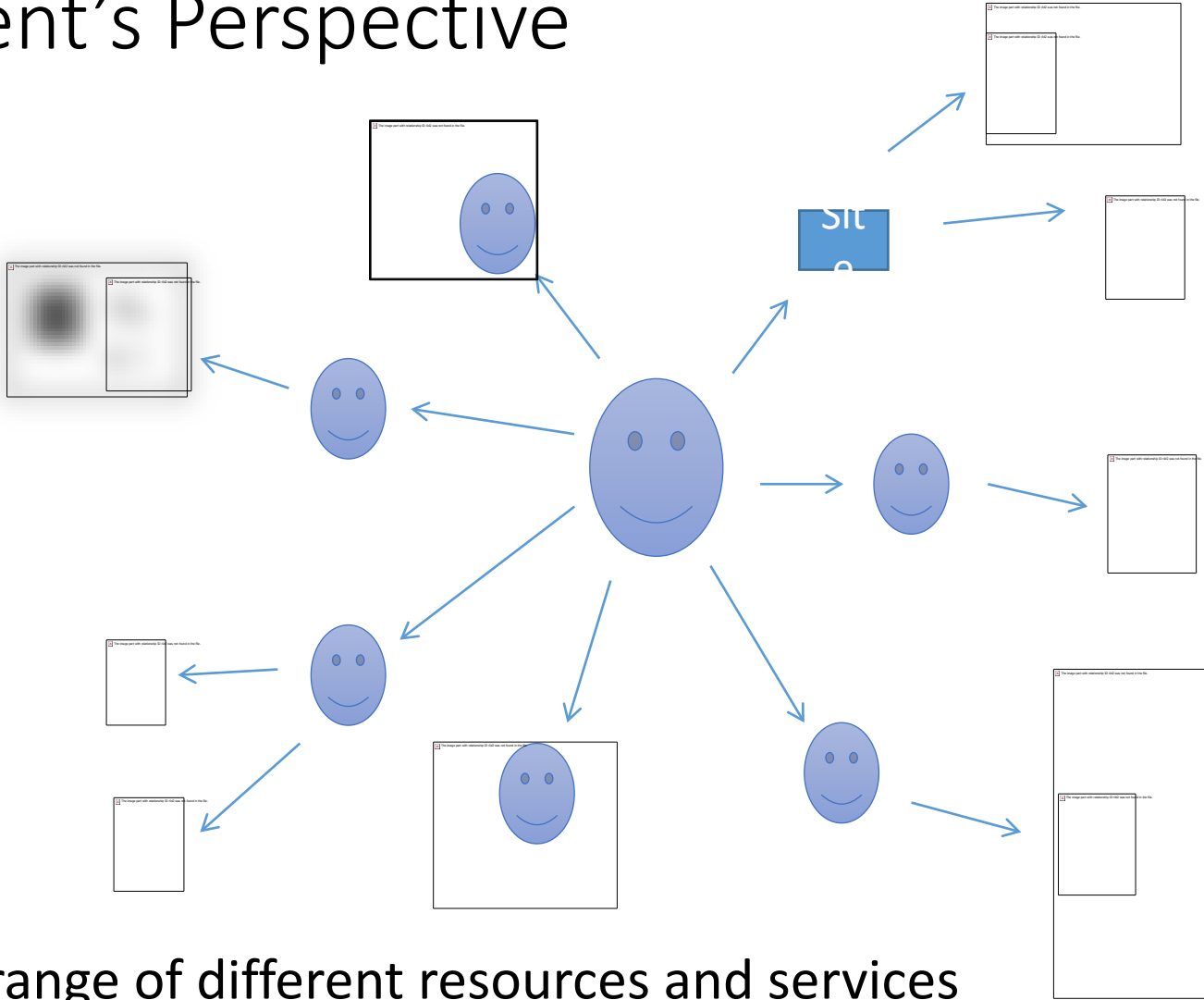


Scott Wilson (left), Tim Hand (right)

<https://www.google.com/search?q=ple+diagrams>

http://www.edtechpost.ca/ple_diagrams/index.php/mind-map-3

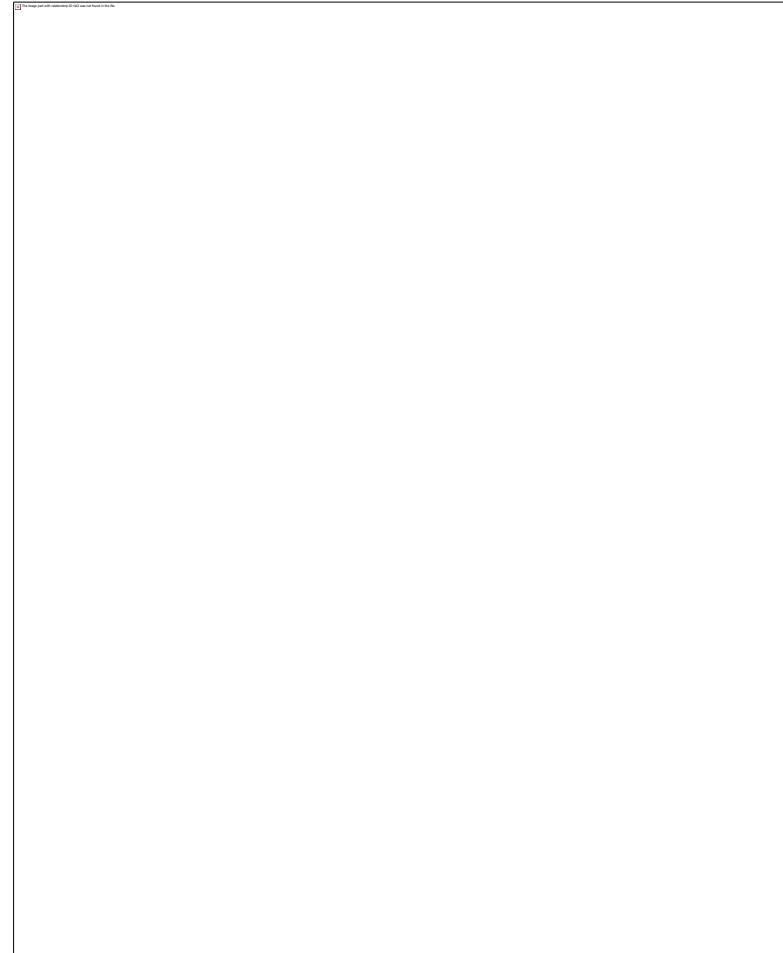
The Student's Perspective



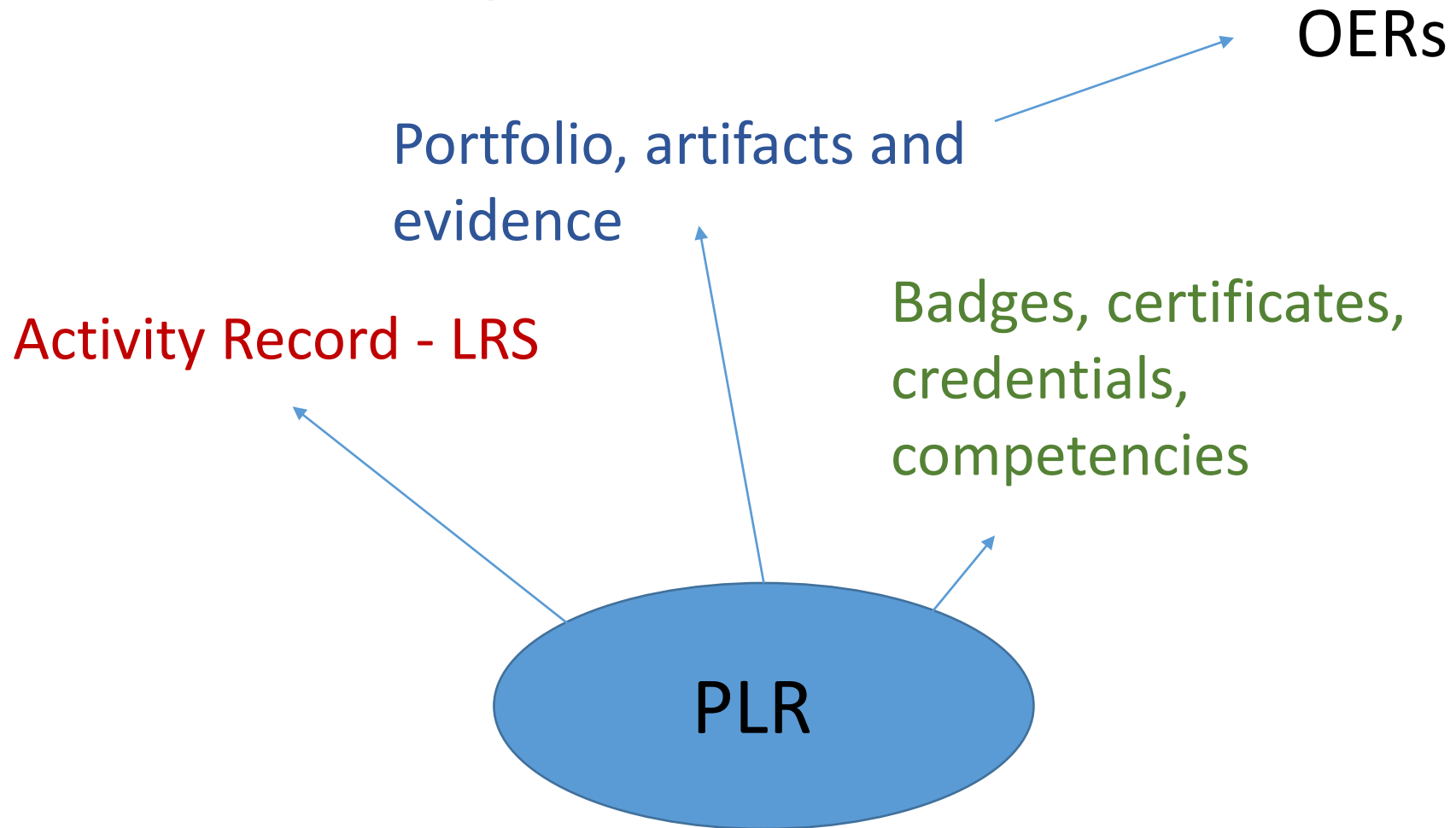
A range of different resources and services

Personal Learning Record

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



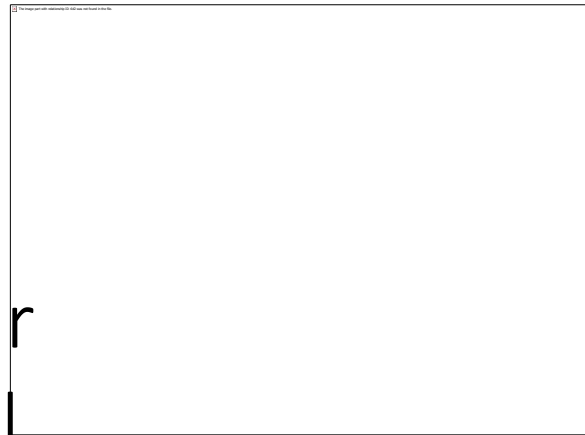
Personal Learning Record



Everything 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.

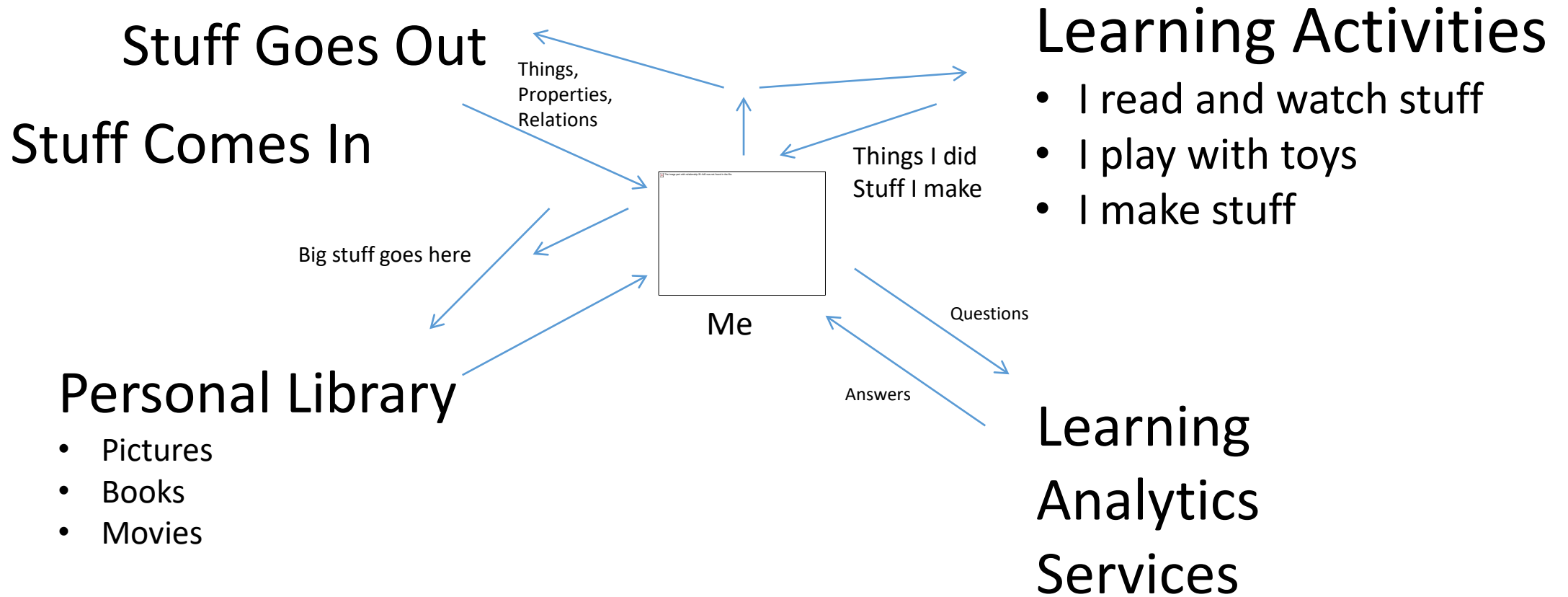


Me

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

Everything is Built Around the Personal Learning Record



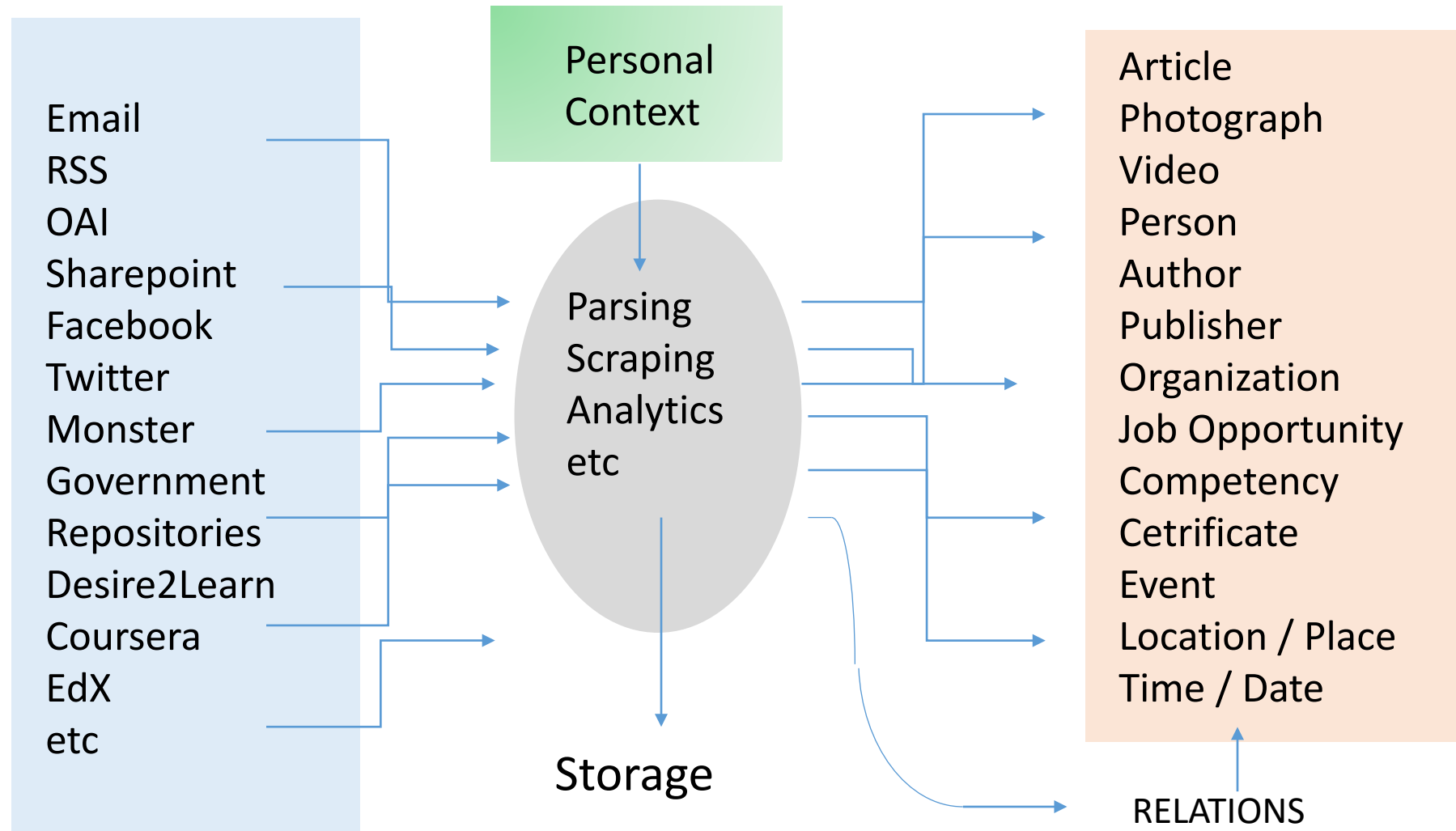
Plearn – Importance of the Graph



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

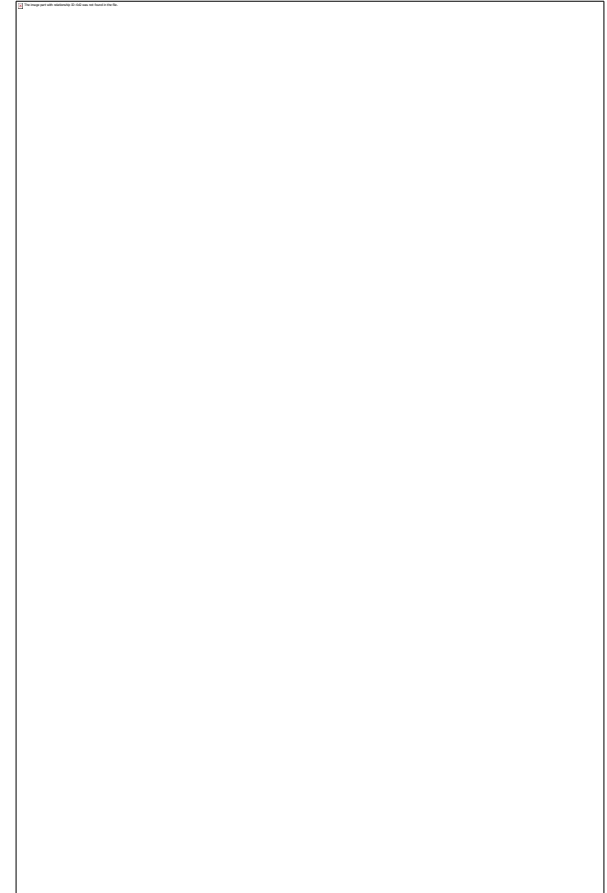
<http://www.slideshare.net/Ritakop/kopfourniercanadianinstitutedistanceeducationresearchple>

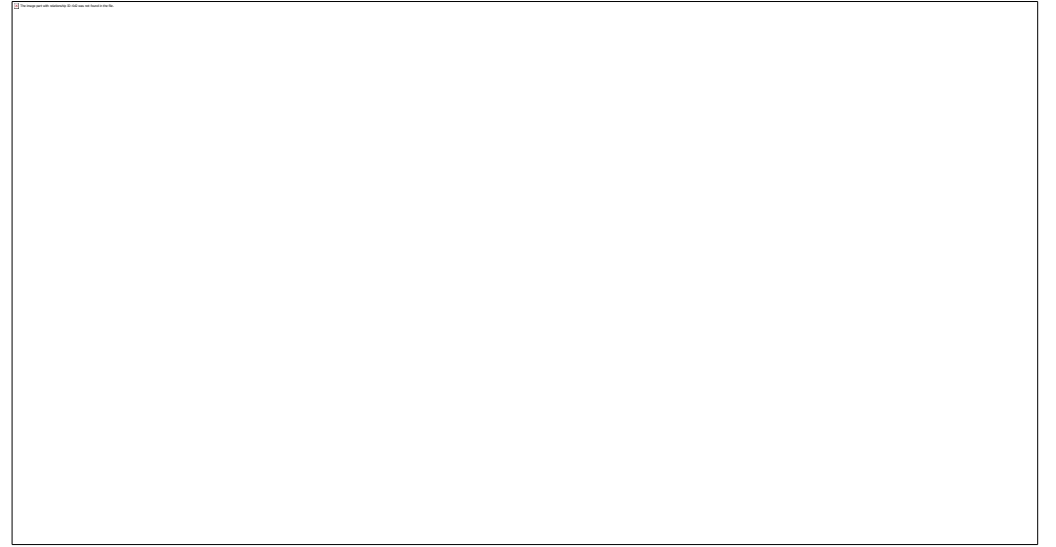
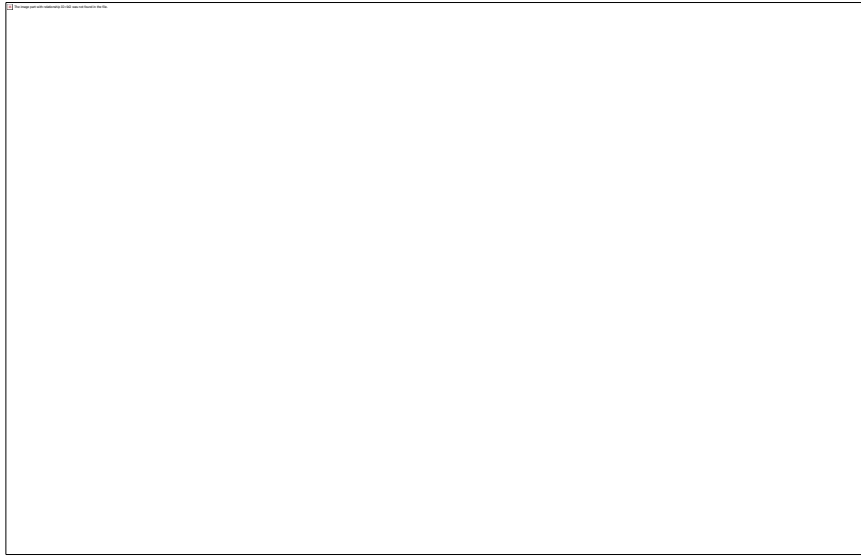
Graph Aggregation and Storage



Future Projects...

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





Stephen Downes

<http://www.downes.ca>