



Stephen Downes

International MOOC Conference

Capri, Italy

September 25, 2015

Where are MOOCs Going?  
What is the Future of Distance  
Learning?

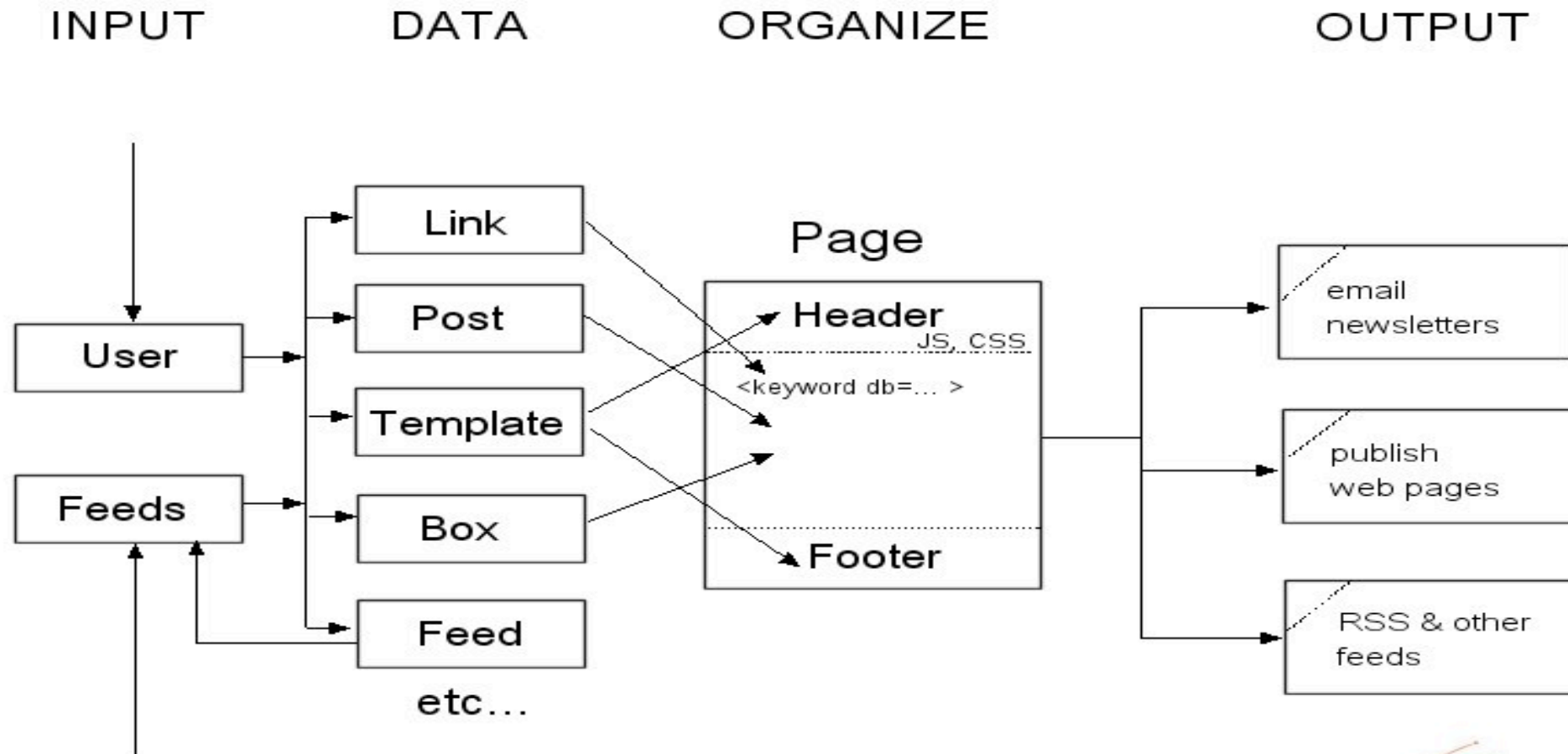
# MOOC Revolution?

- Most of the 'MOOC revolution' has missed the point of MOOCs
  - Not simply that they forgot the meaning of the word 'open'
  - They also forgot the meaning of the word 'massive'
    - It is *not* just another word for 'broadcast'
  - What does it mean to support universal access to learning and education?

- Our primary innovation was two-fold:
  - A *distributed* platform, that enabled scaling
  - Courses based on *practice* and individual *perspective*
    - Not many people getting the same experience & content
    - Many people each getting personal experience & content

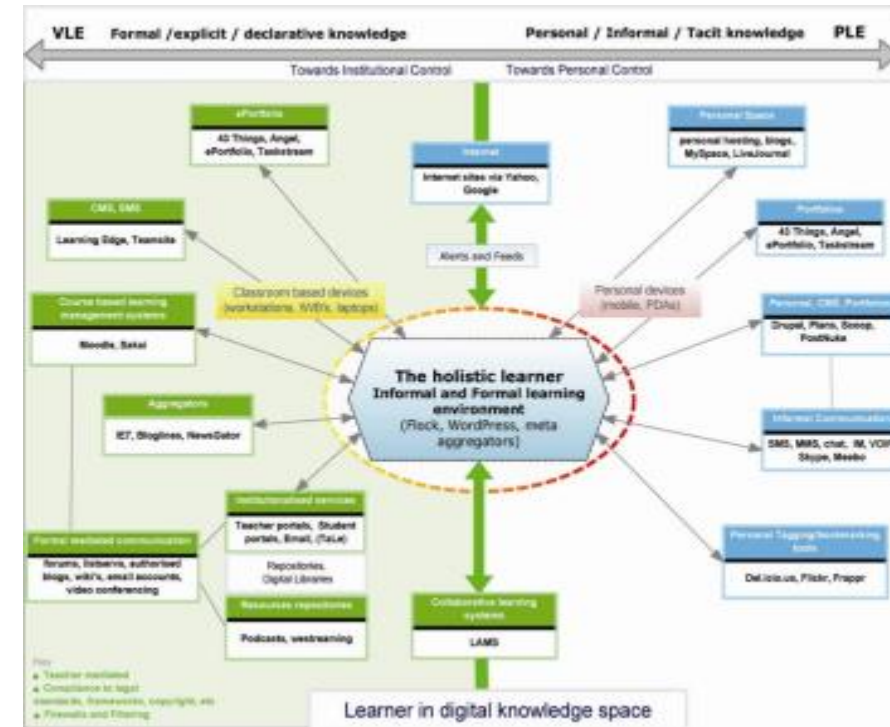
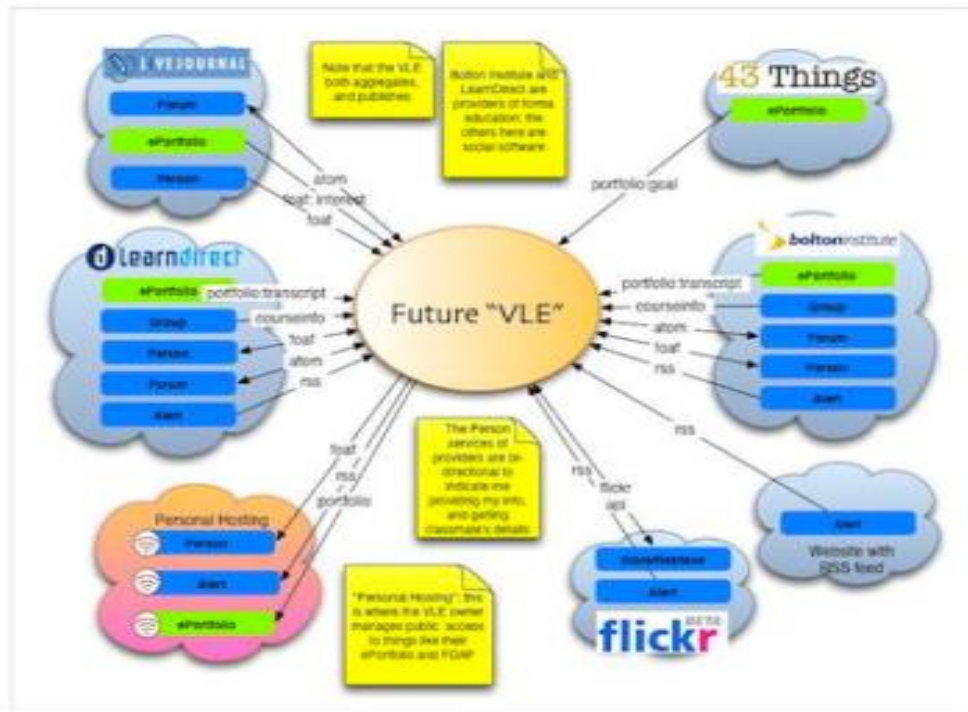


# gRSShopper



<http://grssshopper.downes.ca>

# The design was based on putting the learner at the centre



Scott Wilson (left), Tim Hand (right)

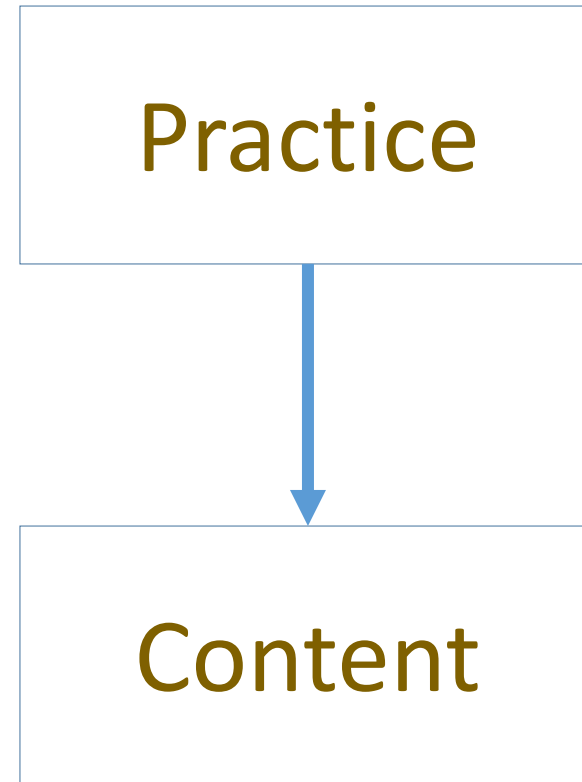
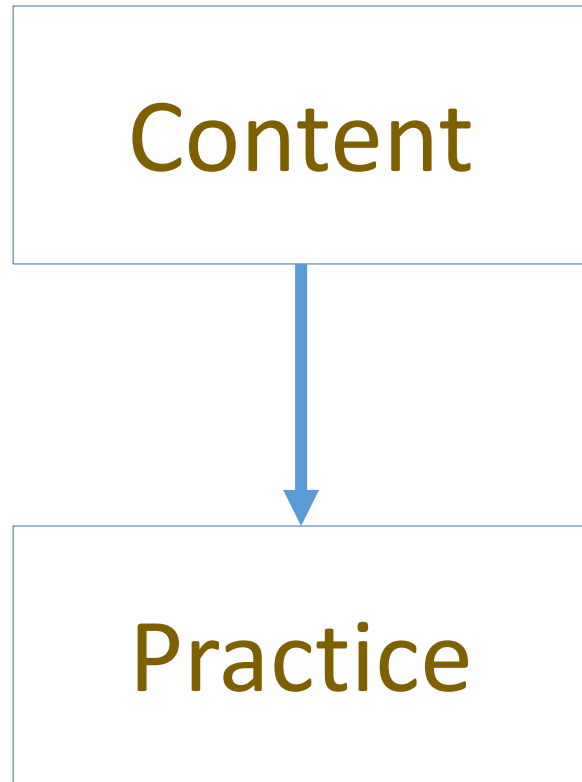
<https://www.google.com/search?q=ple+diagrams>

[http://www.edtechpost.ca/ple\\_diagrams/index.php/mind-map-3](http://www.edtechpost.ca/ple_diagrams/index.php/mind-map-3)

# Personal vs. Personalized

- Compare between:
  - Personalized health care (something the National Health Service provides)
  - Personal health care (something you do for yourself)
- Compare the focus:
  - Focus on the institution, institutional needs
  - Focus on the person, personal needs (not just 'student')

# Two Approaches...



# Two Approaches...

Defines an ideal state

Content



Practice

TEST

Person tests you

Defines a desired state

Practice



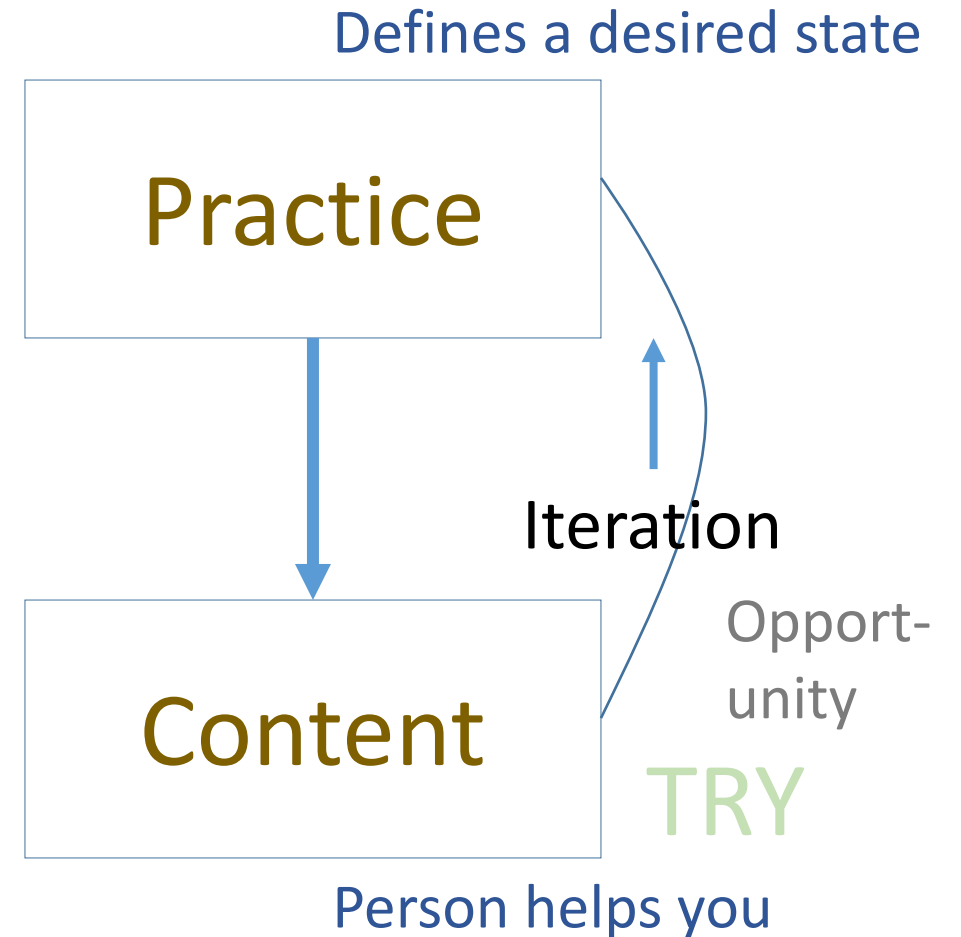
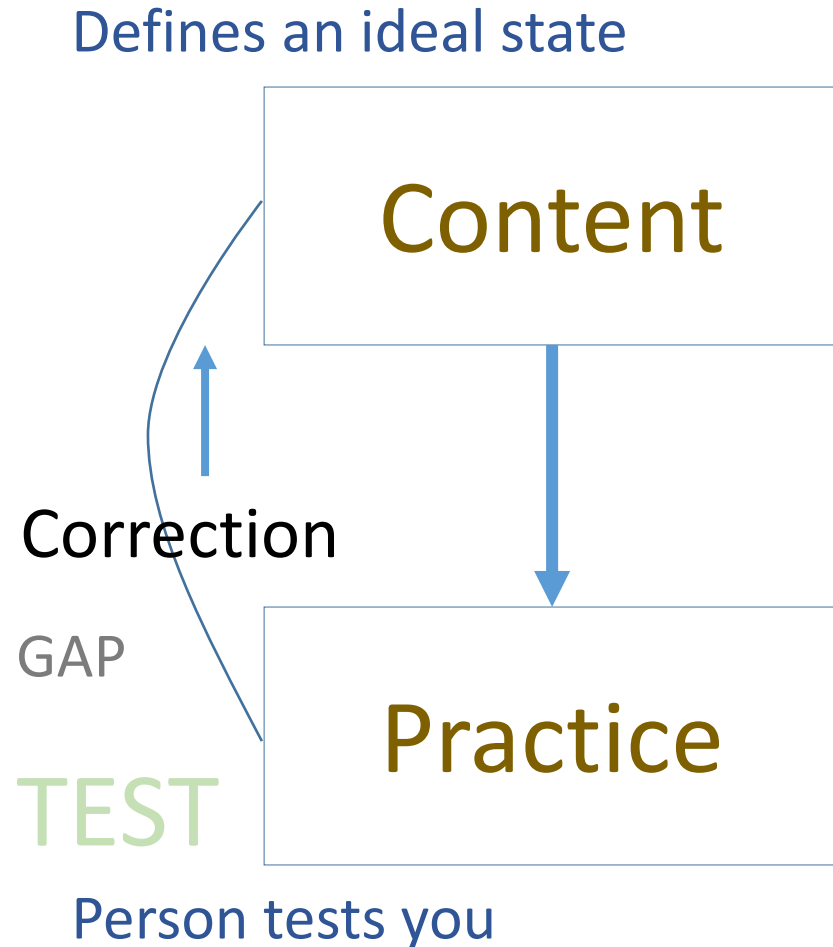
Content

TRY

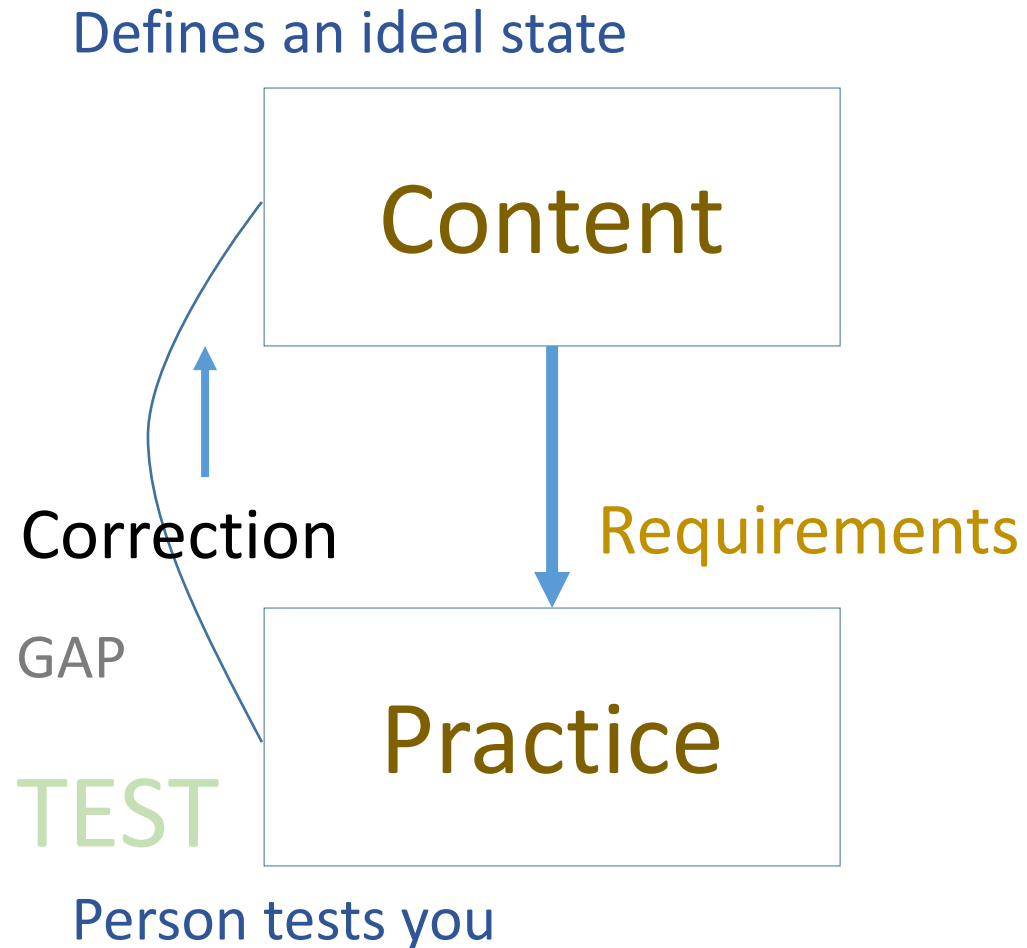
Person helps you



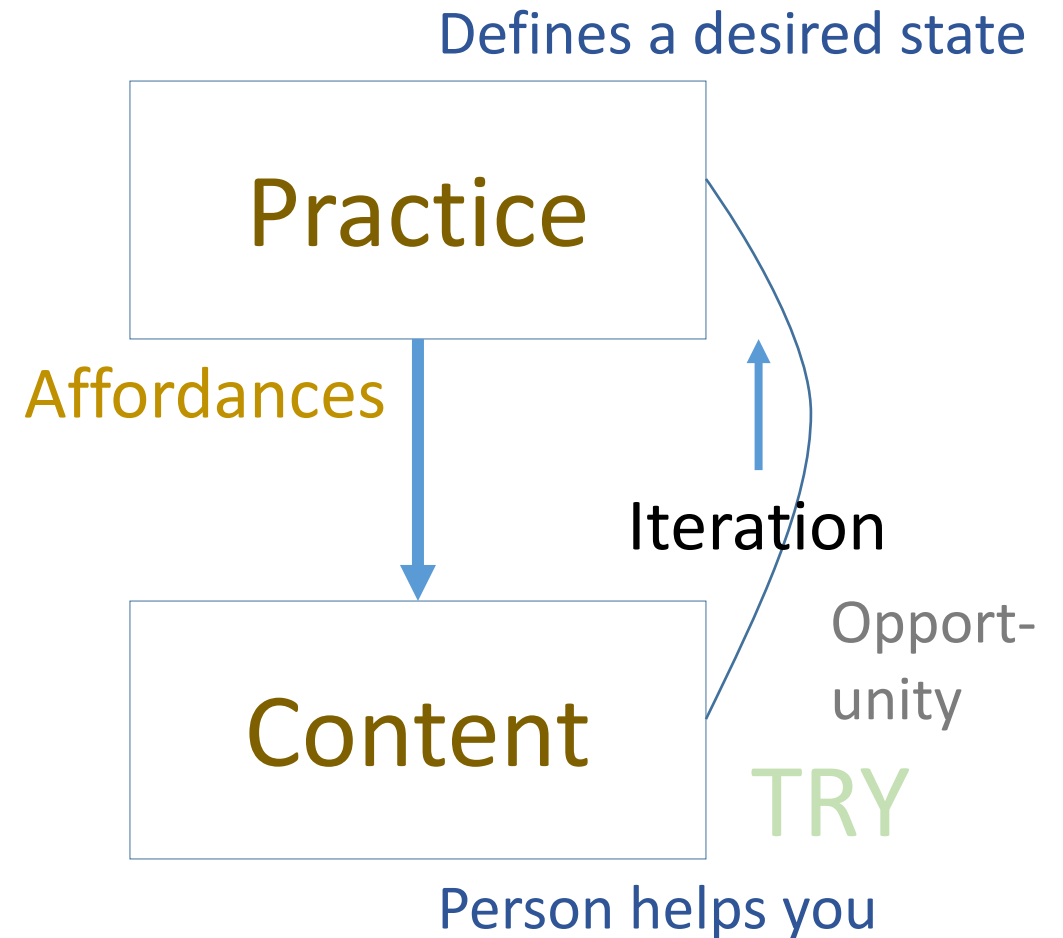
# Two Approaches...



# Library

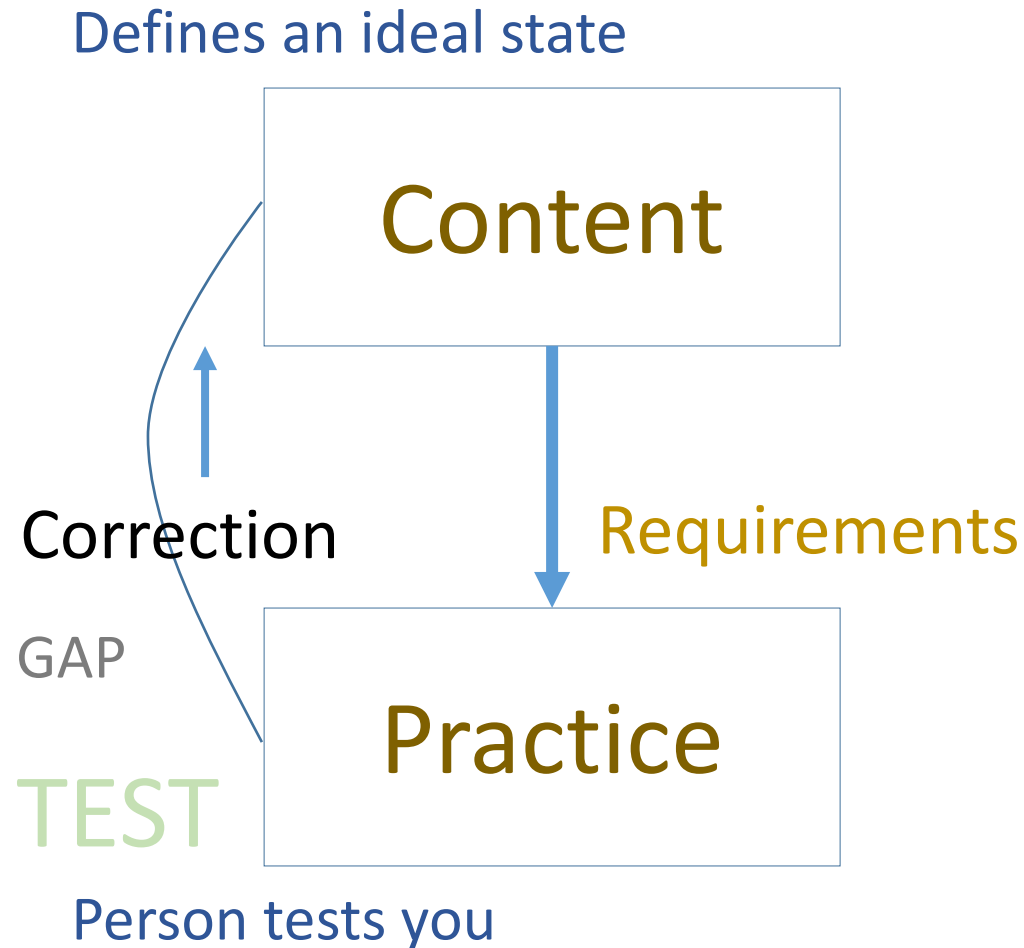


# Environment



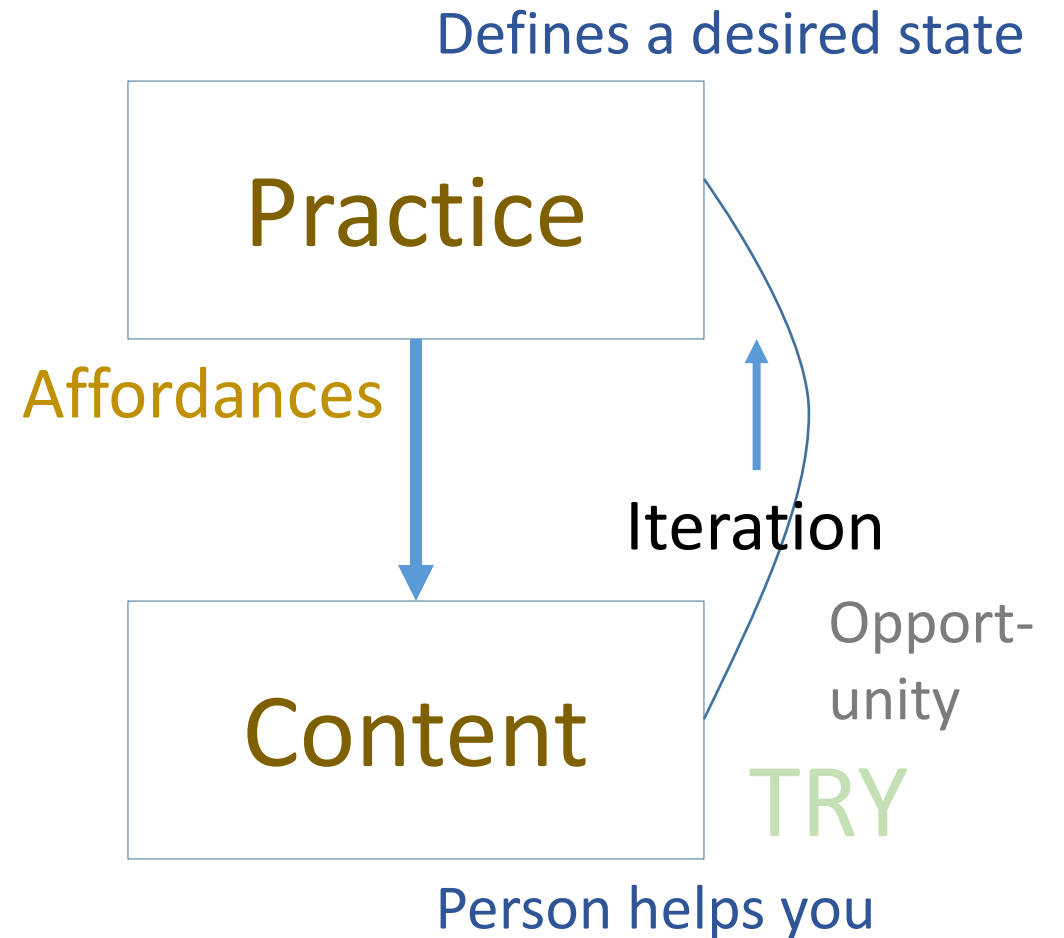
# Personalized

We do for you



# Personal

You do for yourself



# xLearning vs cLearning



contents

engagement

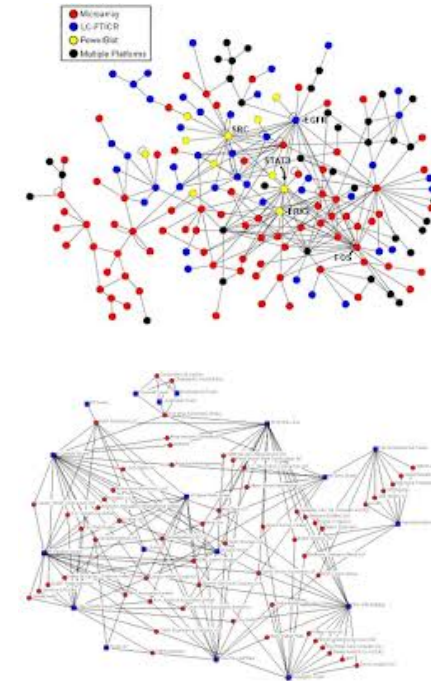
networks



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



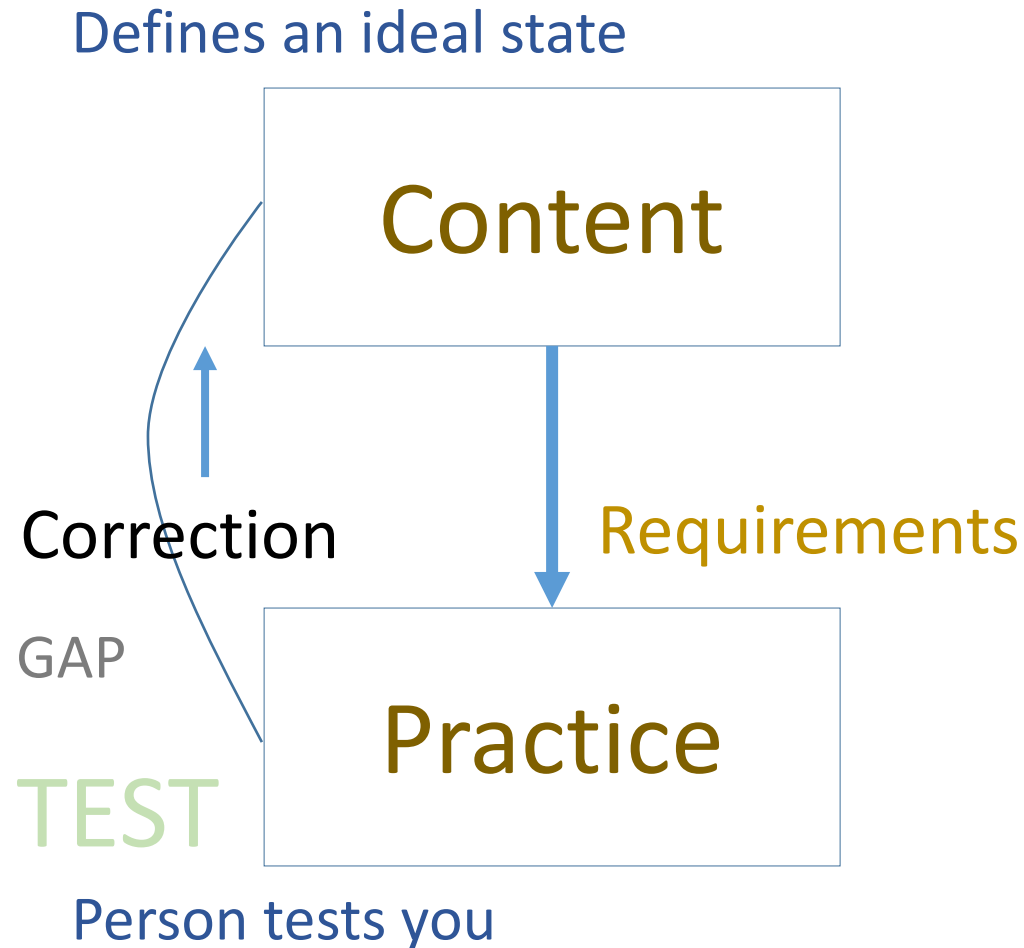
<http://www.magnet.edu/>



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

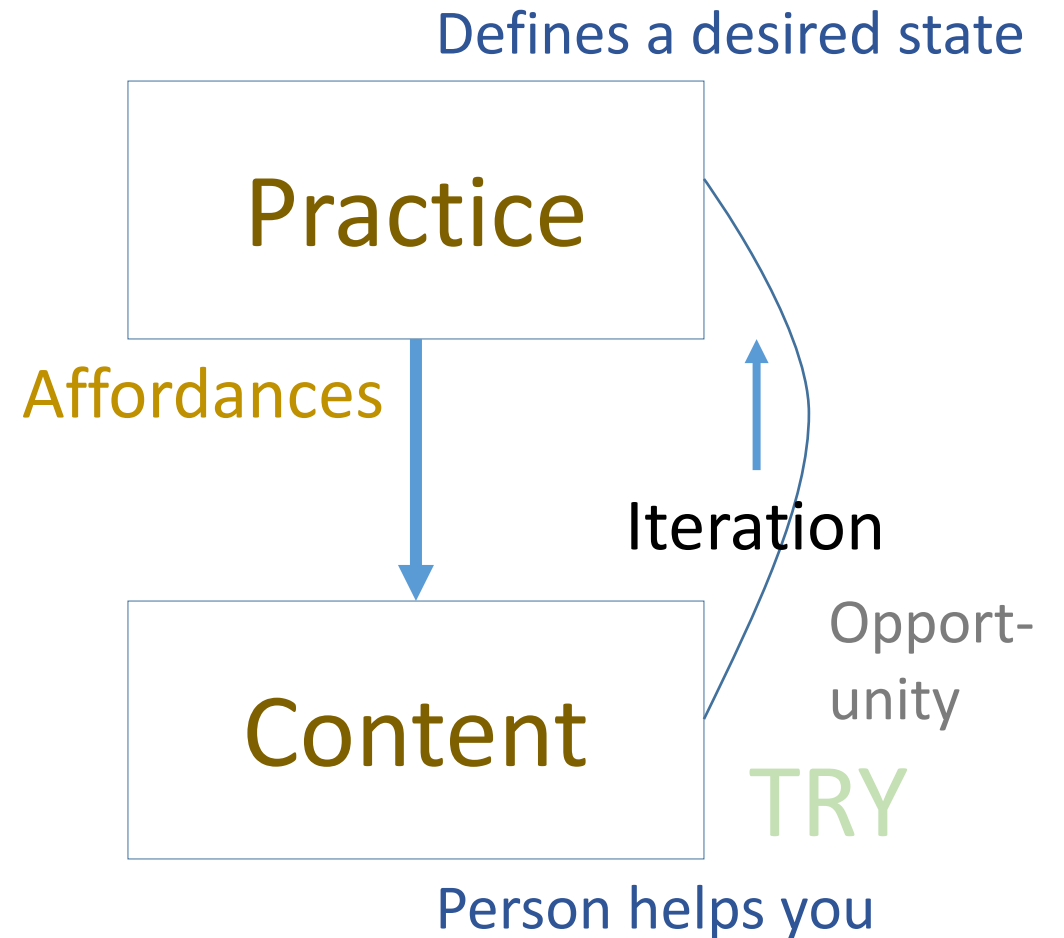
# Personalized

We do for you



# Personal

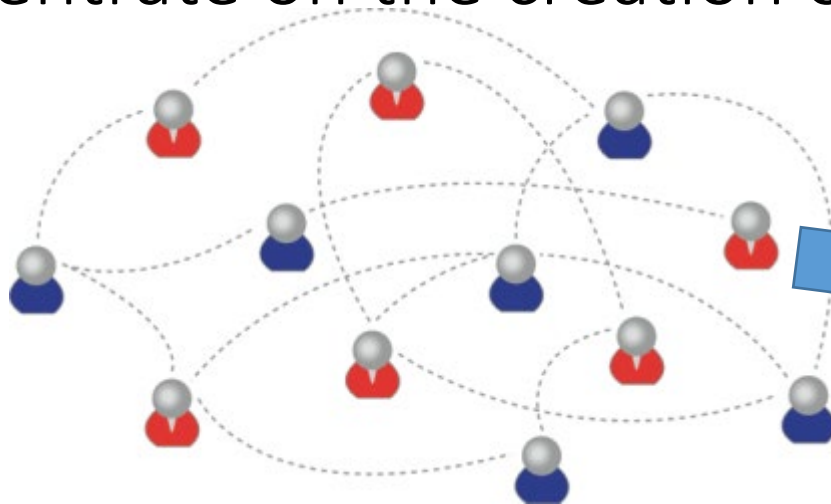
You do for yourself





# How to Create a cMOOC

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



We use social networks...

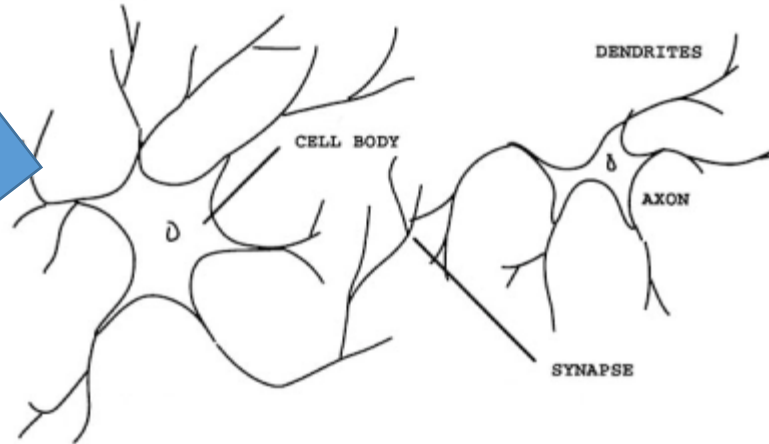
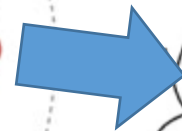
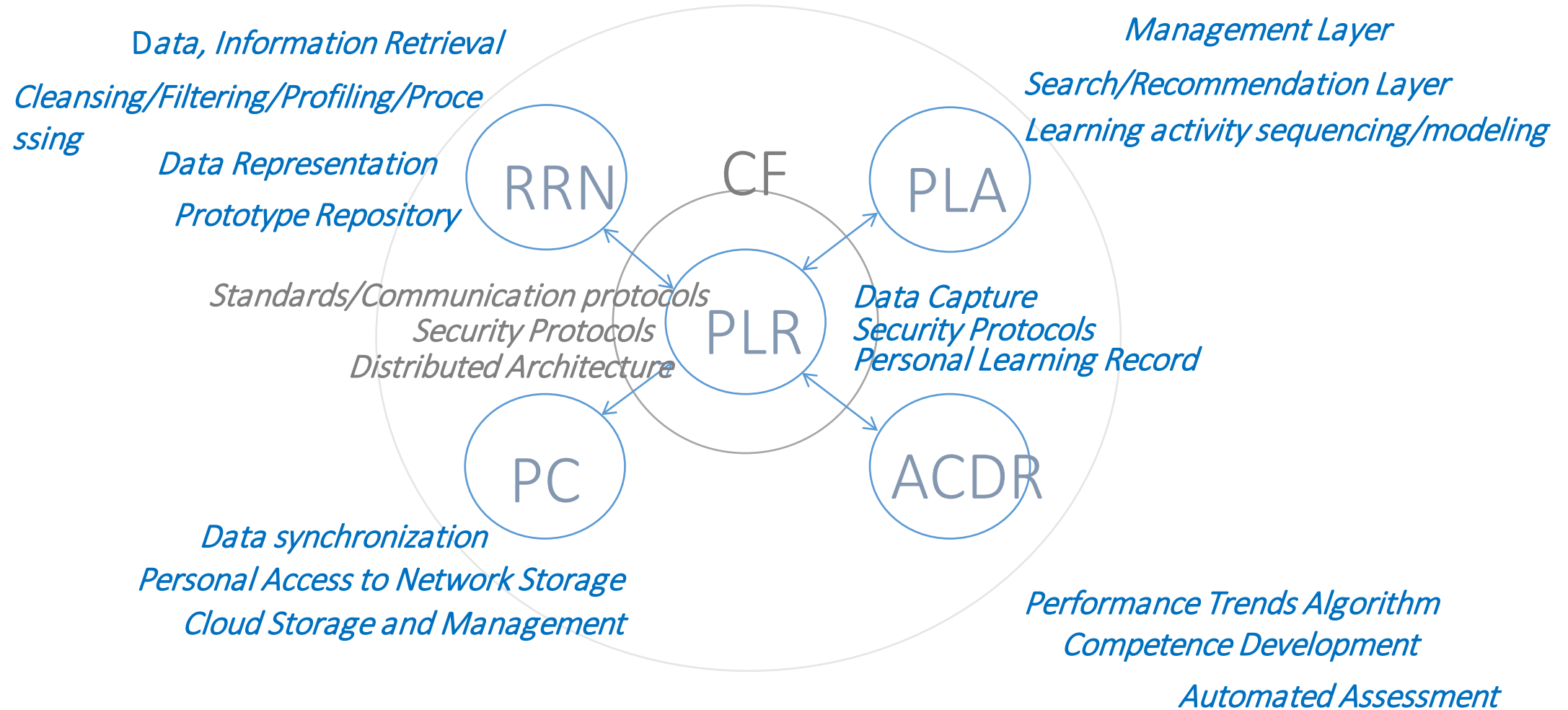


Figure 1. Biological Neuron

... to create personal knowledge

# LPSS (Learning & Performance Support Systems)



# 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.

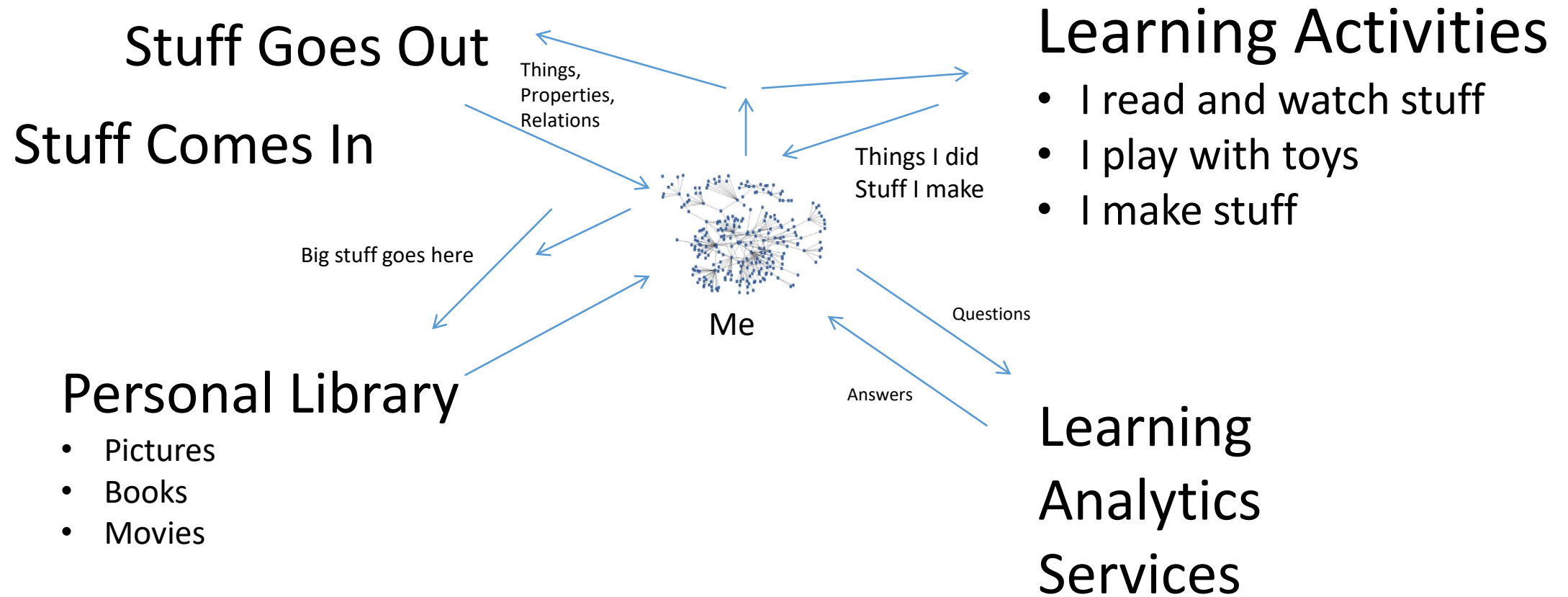


Me

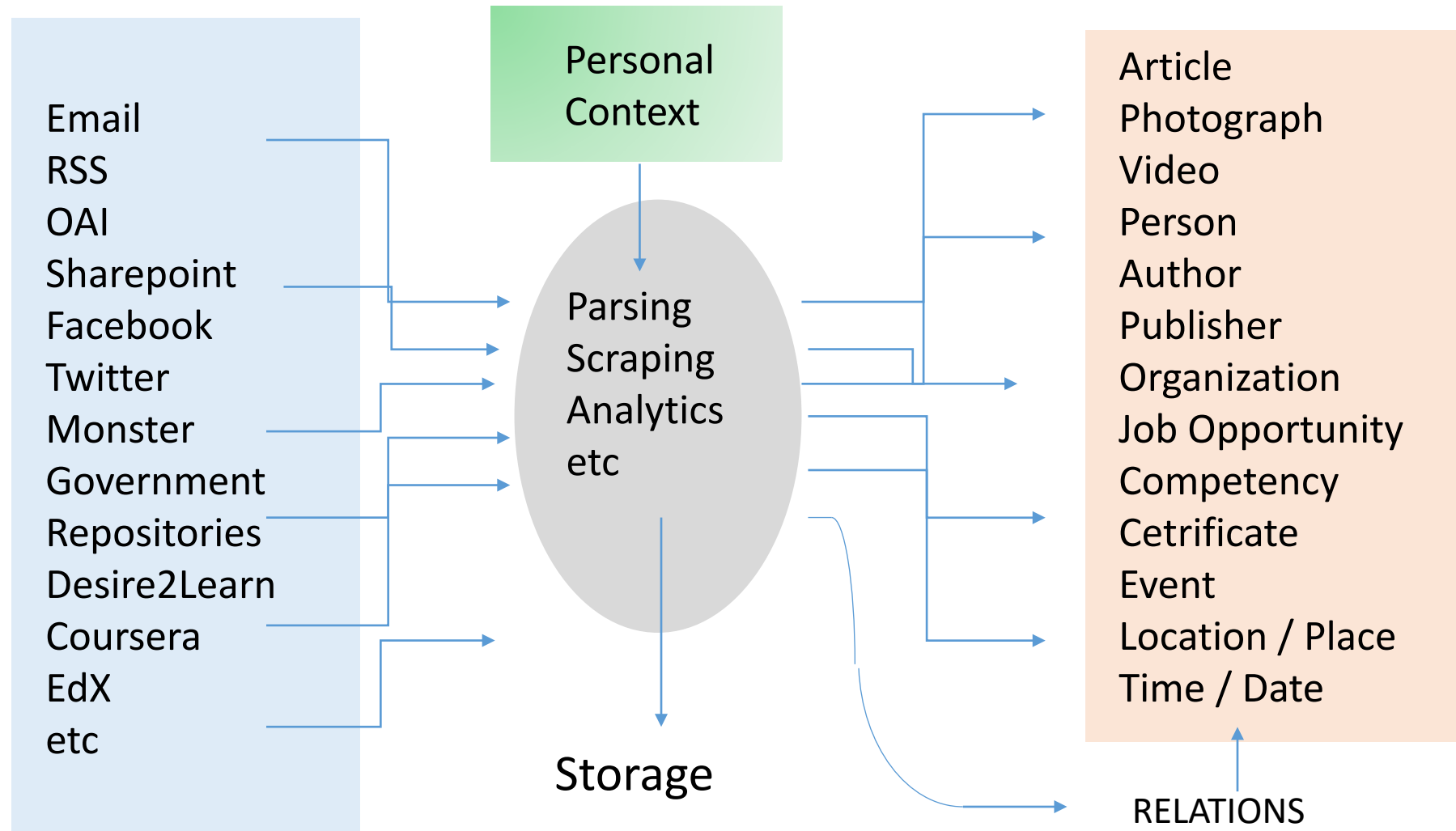
The PLR contains all a person's learning records, including:

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

# LPSS is Built Around the Personal Learning Record

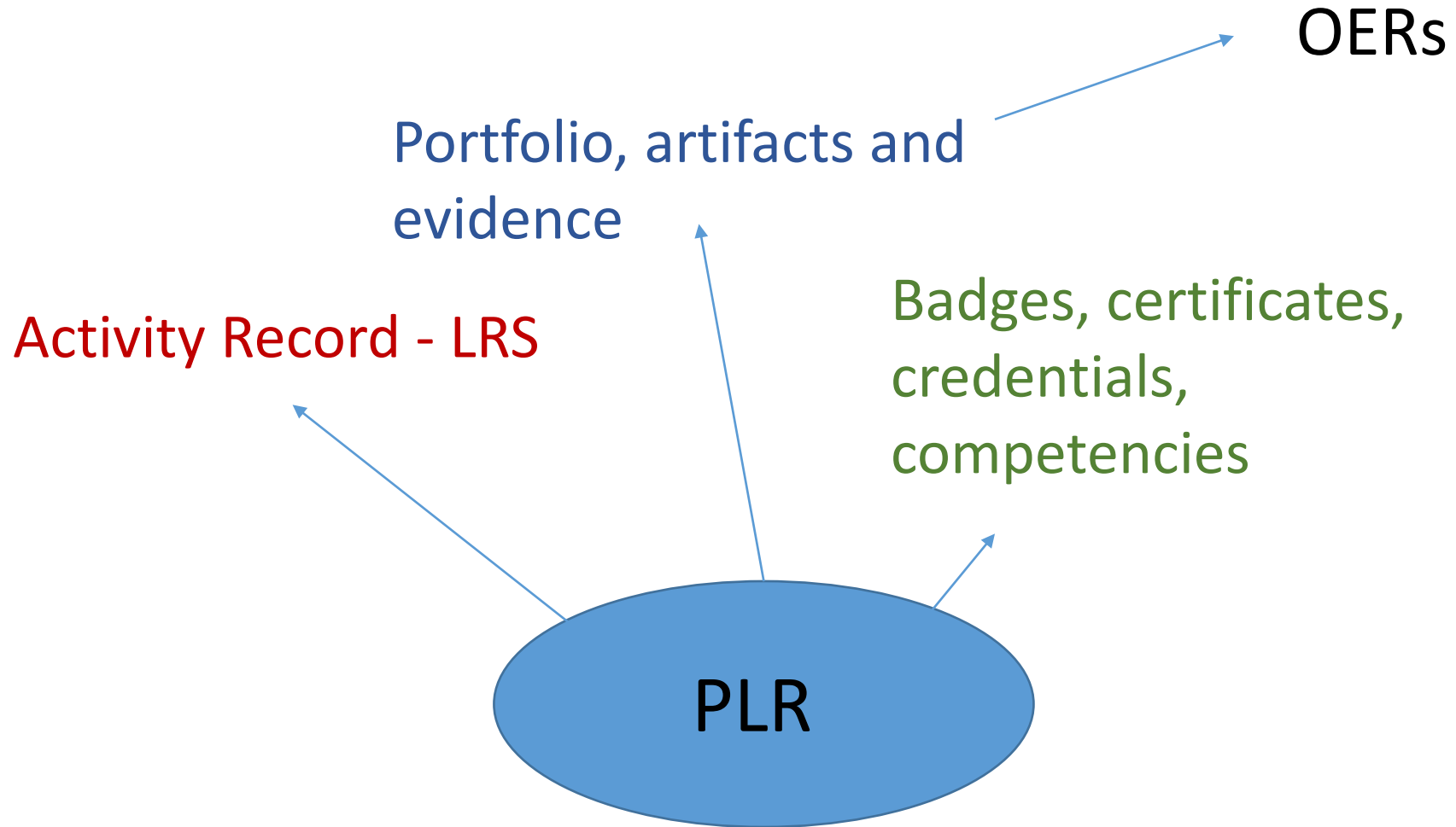


# RRN Aggregation and Storage



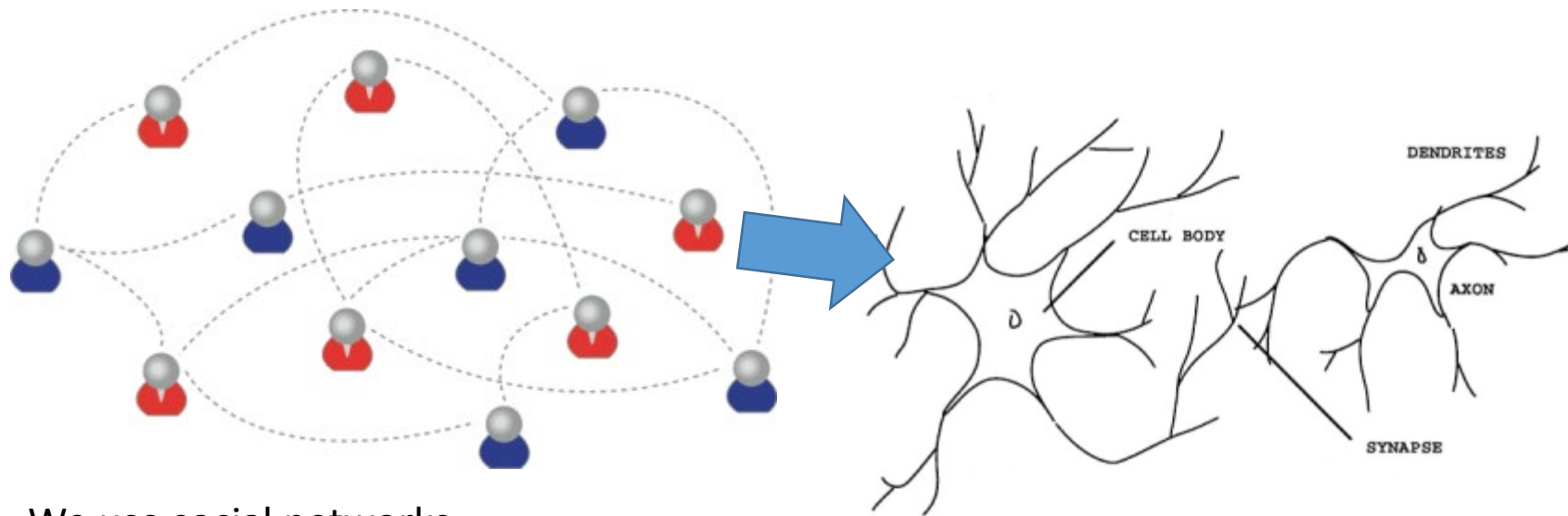


# Personal Learning Record



# What is Learning?

- Engagement and experience in professional networks
- We *grow* our knowledge and capacities



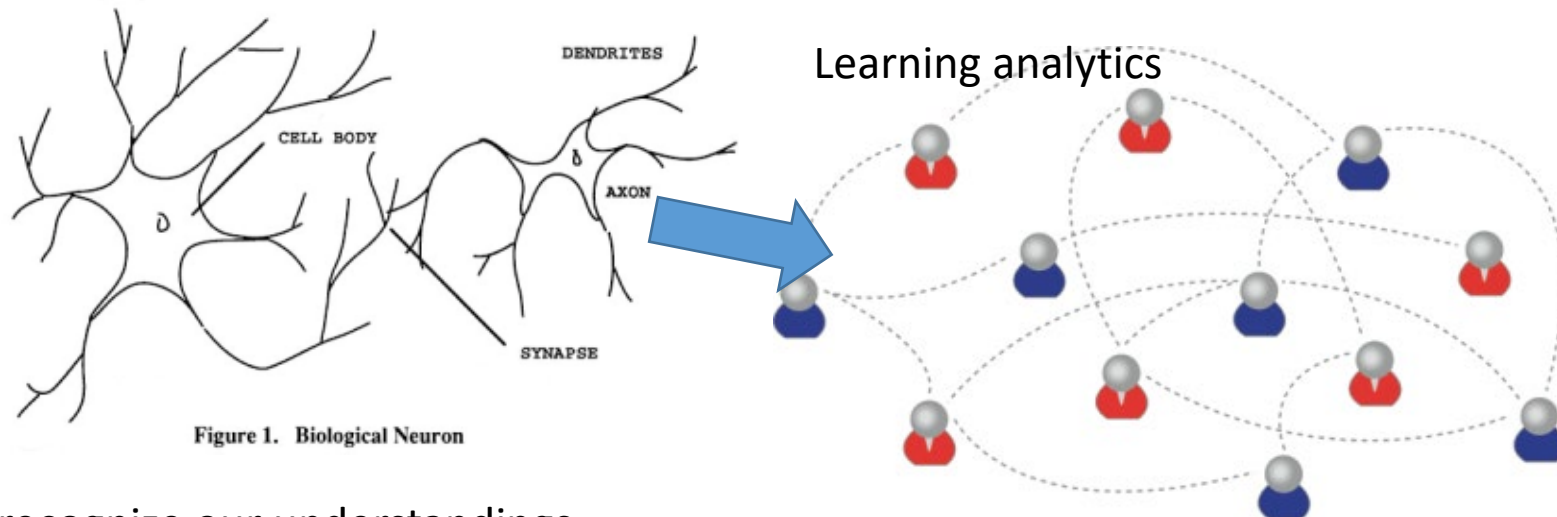
We use social networks...

Figure 1. Biological Neuron

... 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



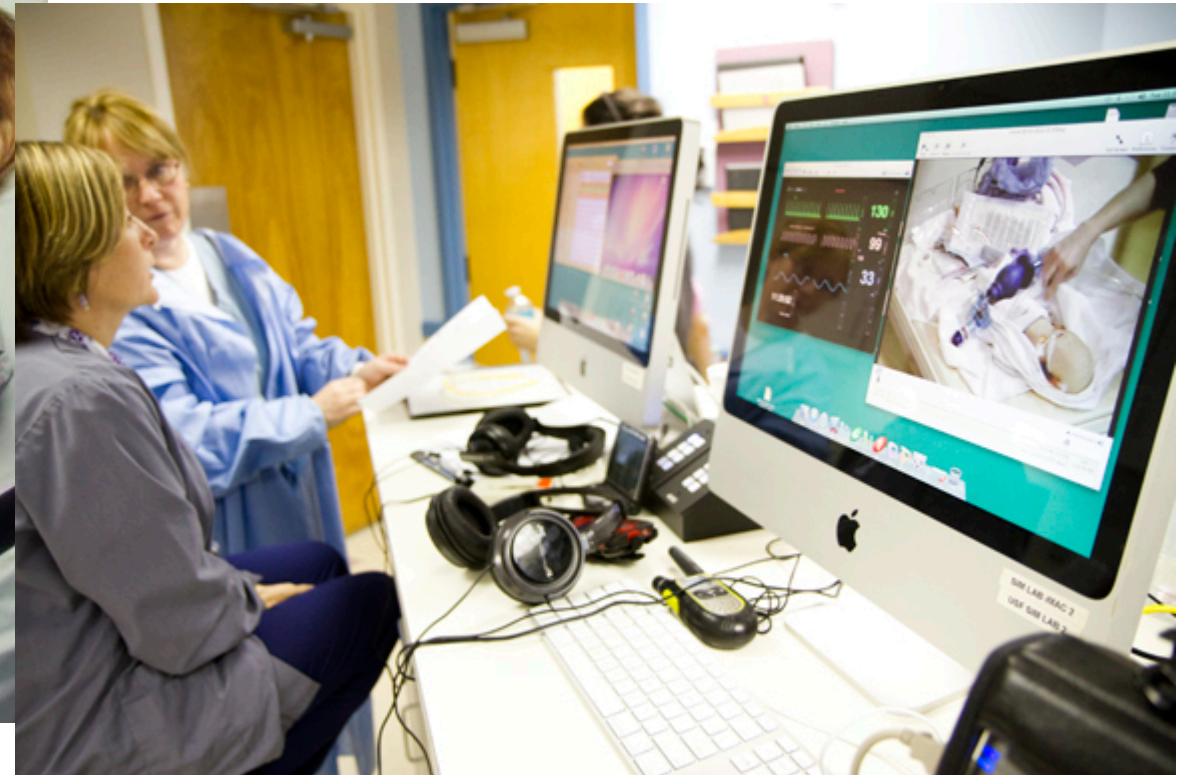
We recognize our understandings...

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

# 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/>

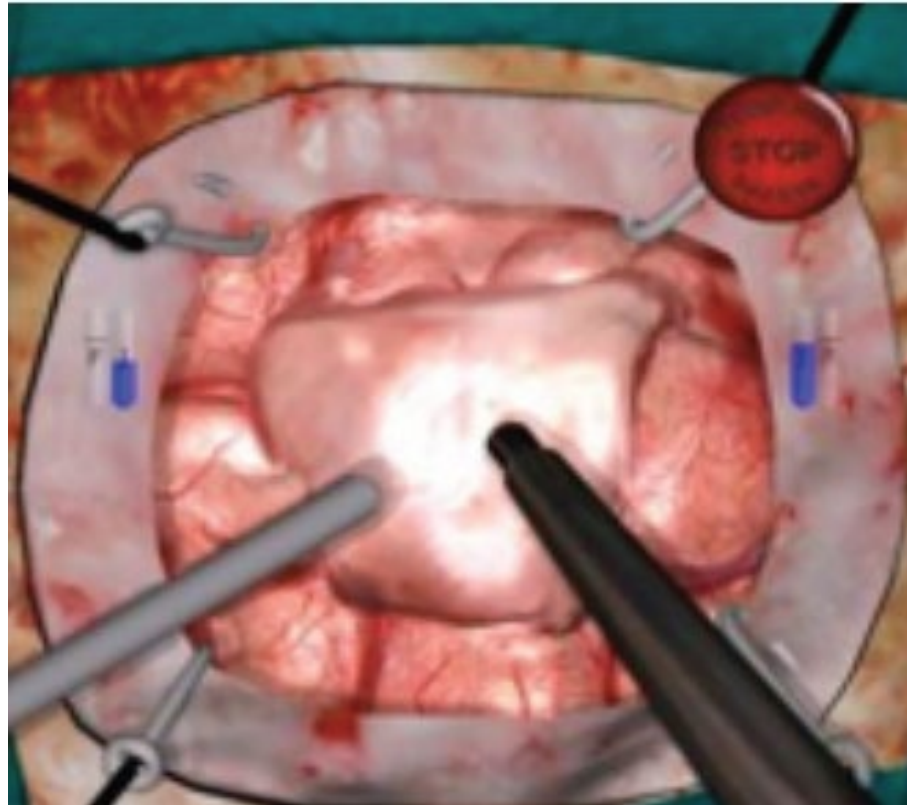


# MINT - Mobile INteractive Trainer

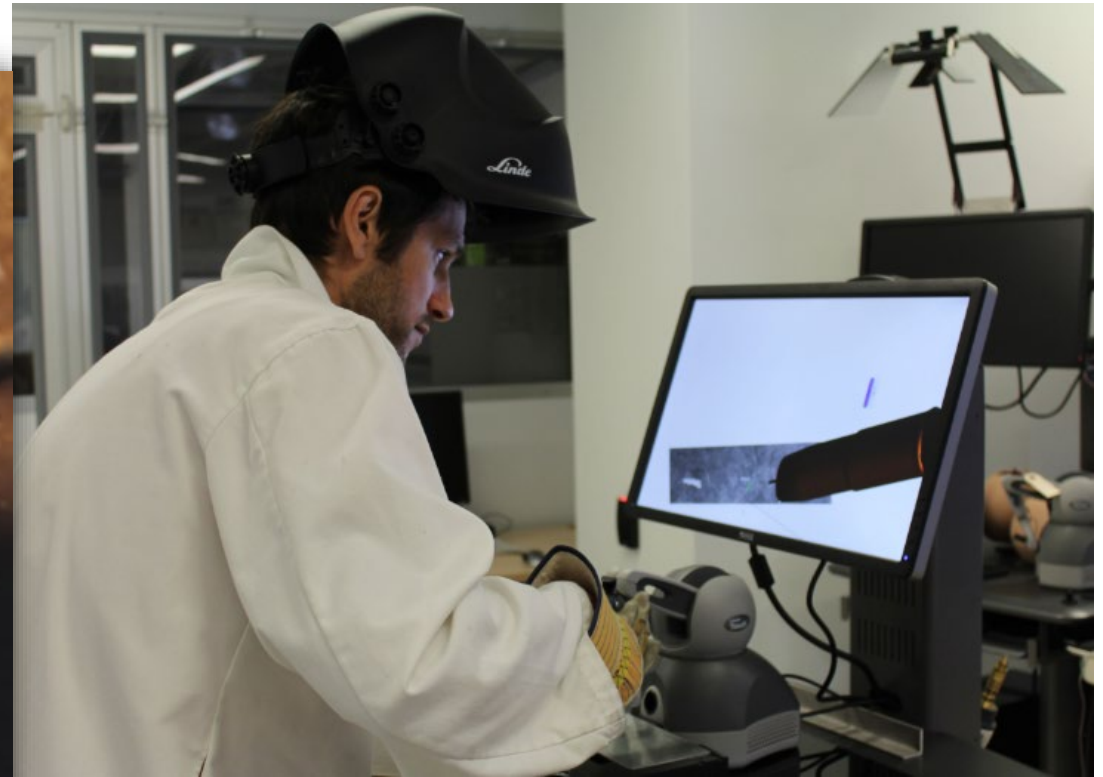


<http://www.downes.ca/post/59876>

# NeuroTouch Simulator

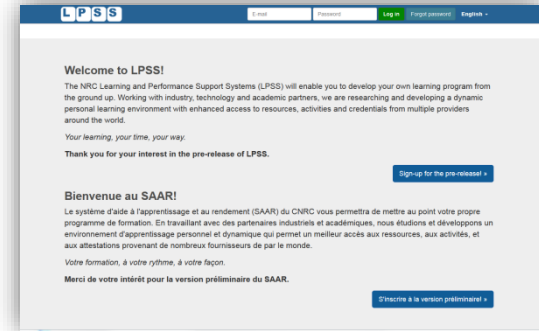
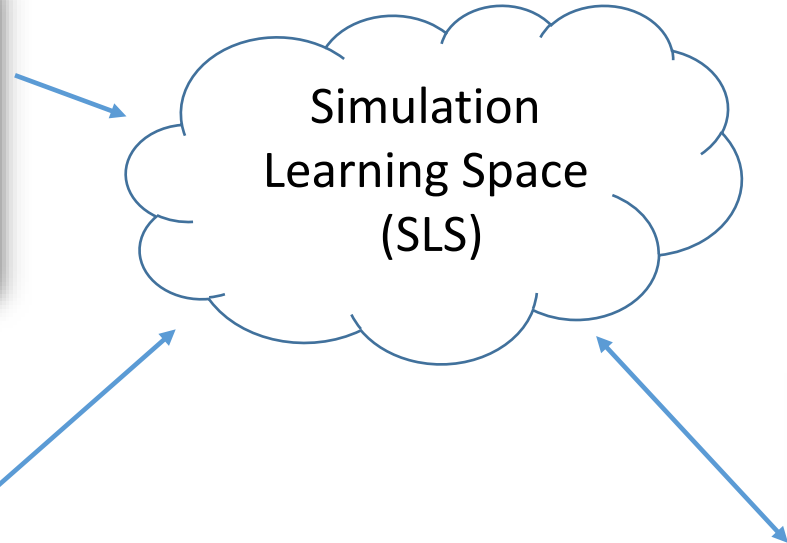


# Sim-Welding



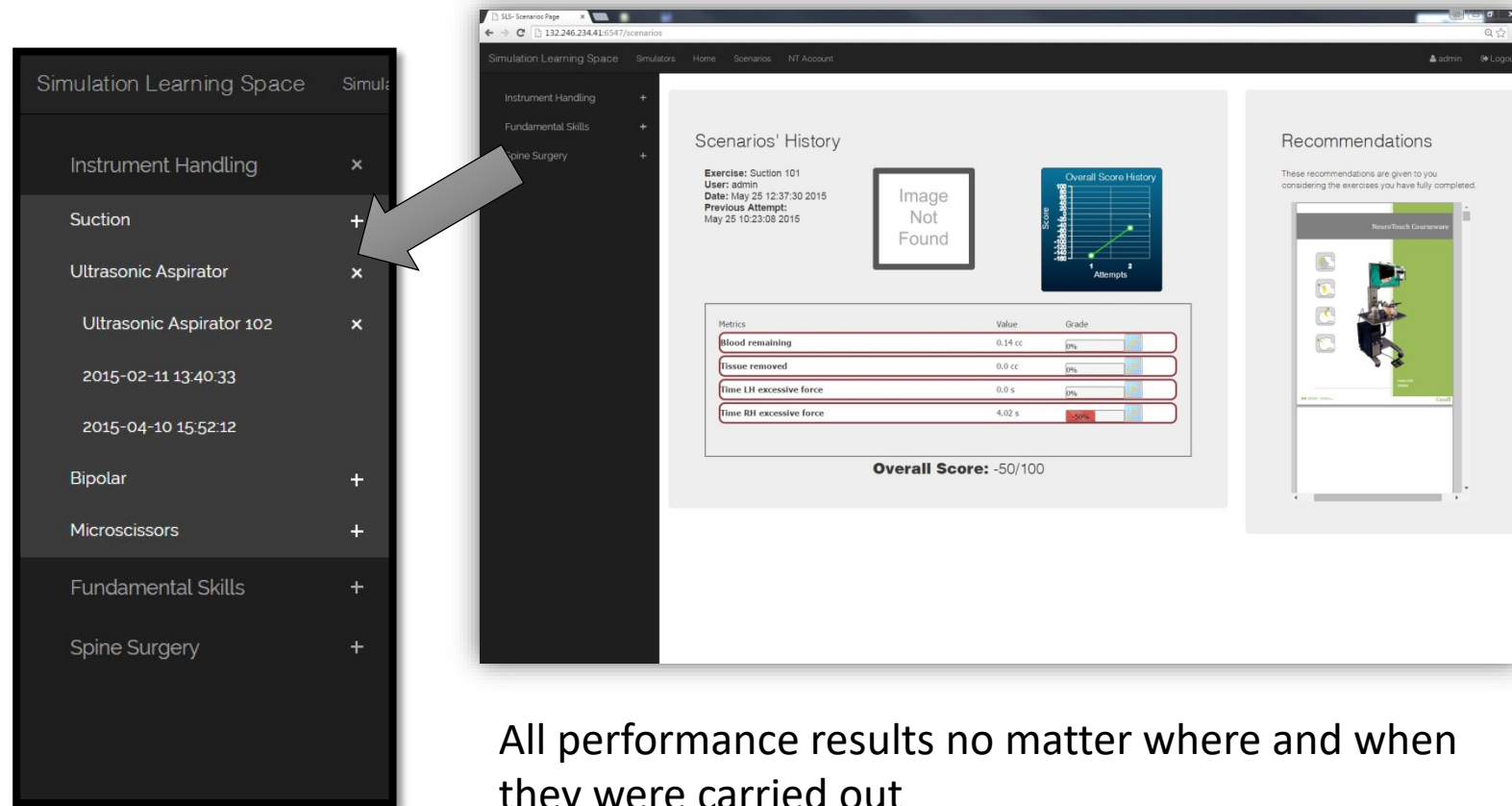


# LPSS-Sim Project Overview



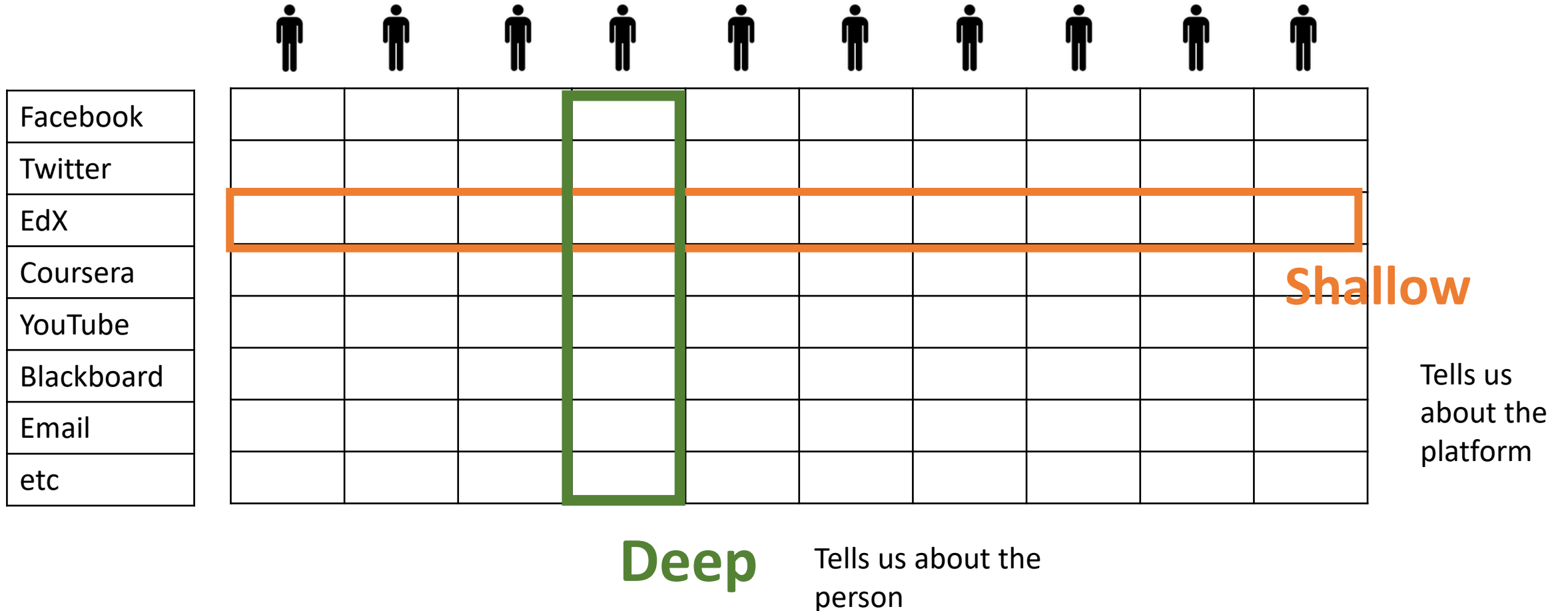
# Combining Experiences

One place for all simulation experience



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

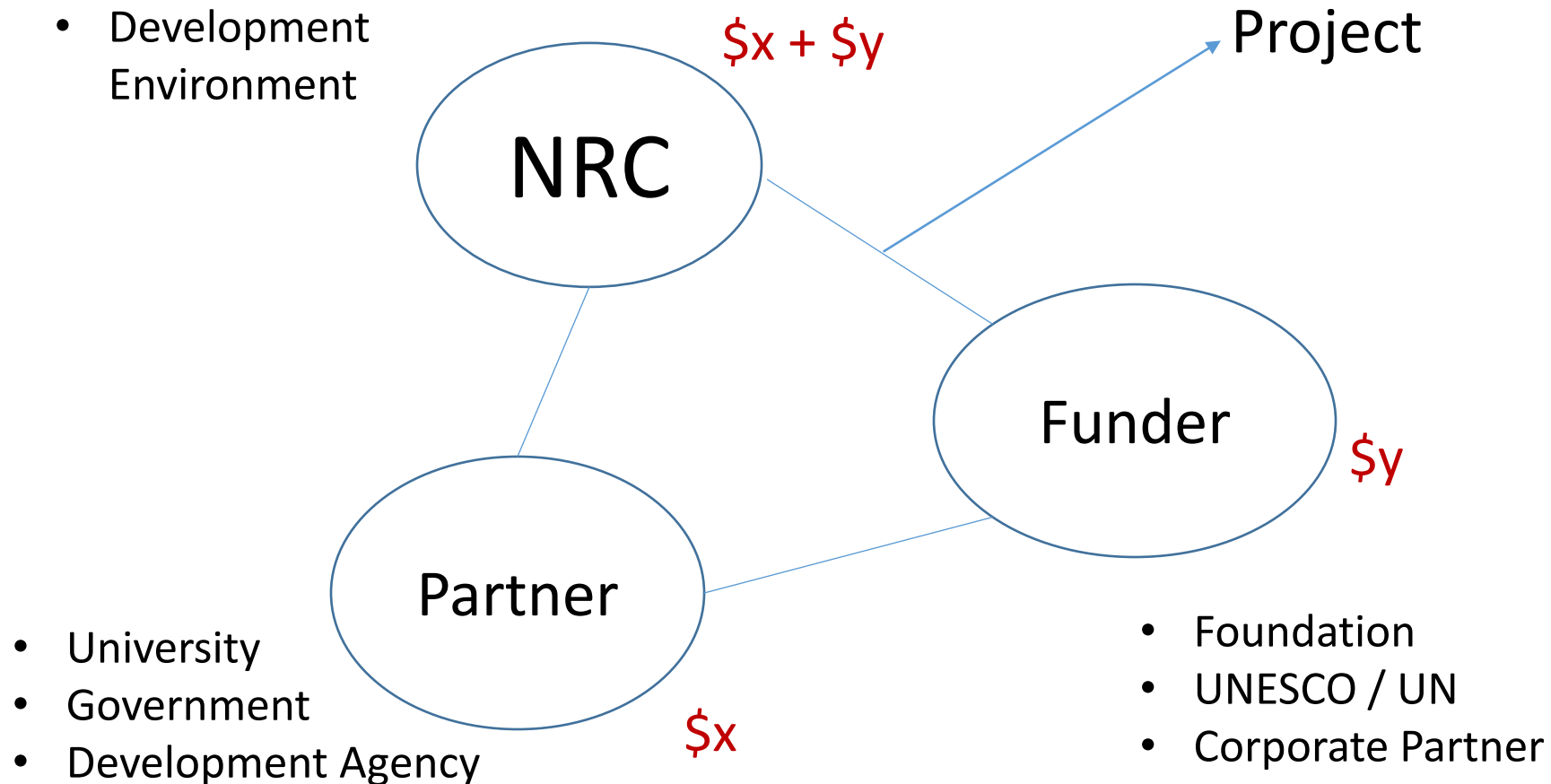
# Analytics and Big Data

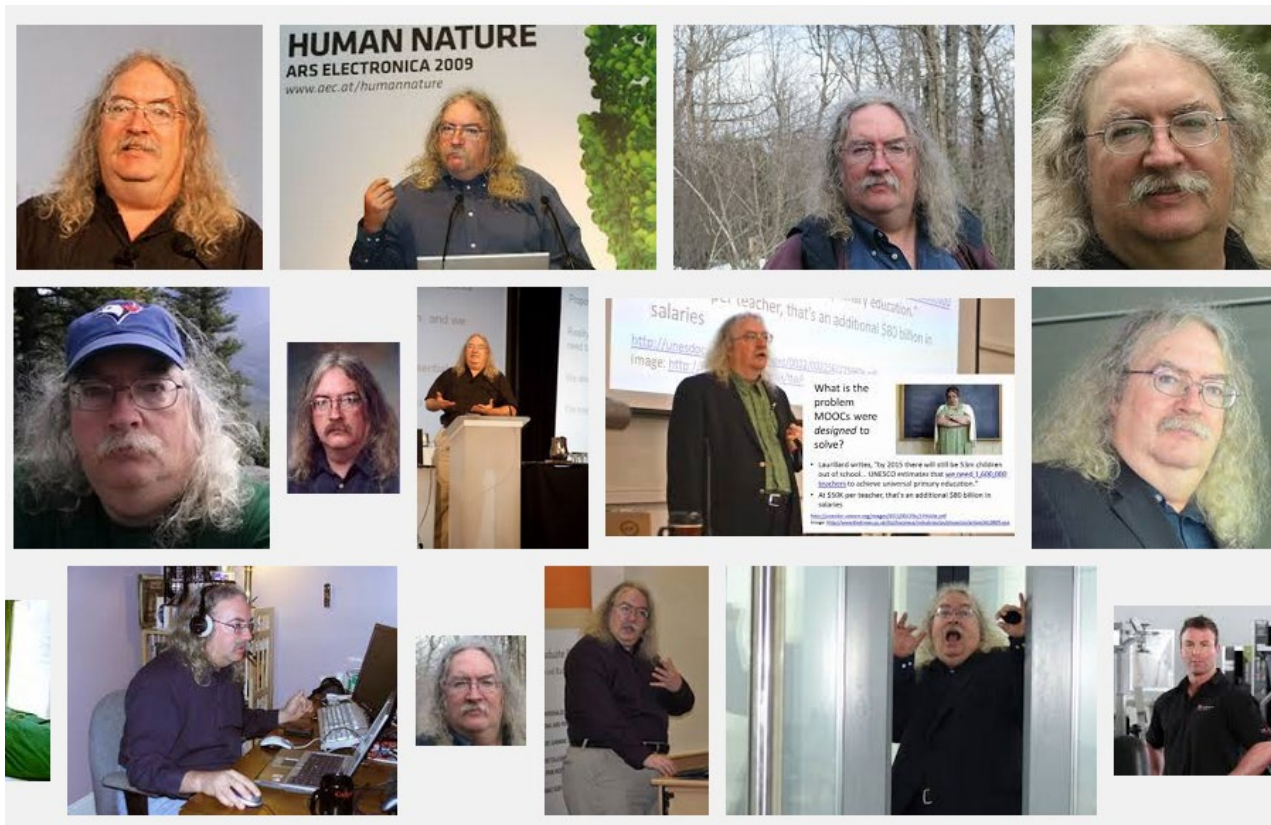




# Expanding LPSS

- \$20 Million Investment
- NRC Technologies
- Development Environment





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<http://www.downes.ca>