

le savoir vivant

# New modes of Learning How we address these evolutions

11 ...:0

UNIL | Université de Lausanne

Jacques Lanarès

✓ 3 Drives✓ 3 Focuses

✓ 3 Implications

#### How to develop motivation to use new approaches?



#### It is not like pushing a flush...

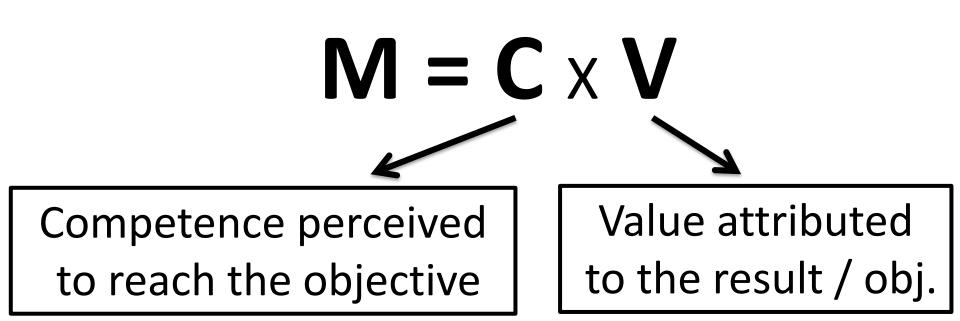
#### Motivation

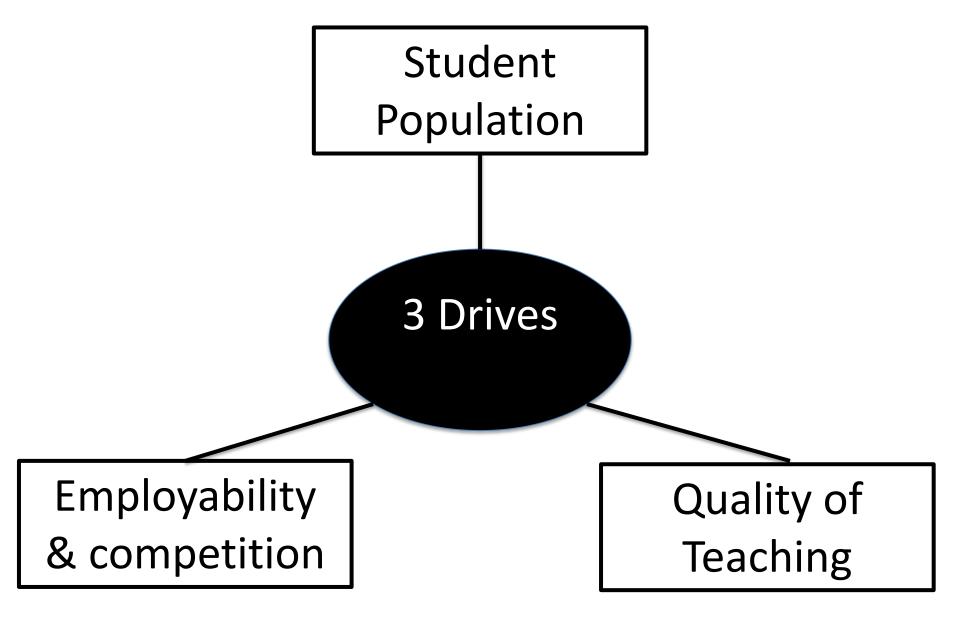
# $\mathbf{M} = \mathbf{C} \mathbf{X} \mathbf{V}$

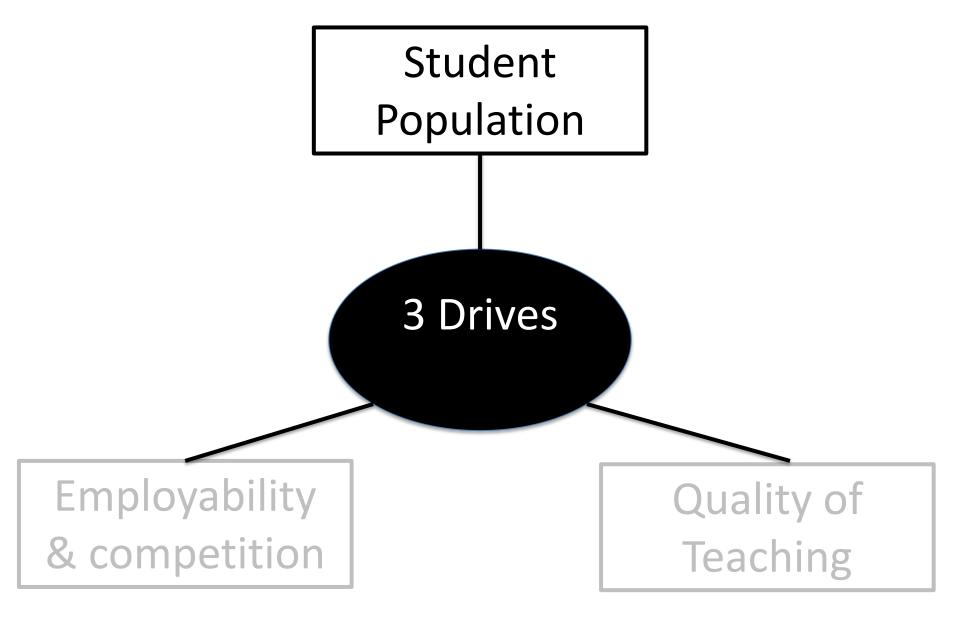
#### Motivation

# $\mathbf{M} = \mathbf{C} \times \mathbf{V}$ Value attributed to the result / obj.

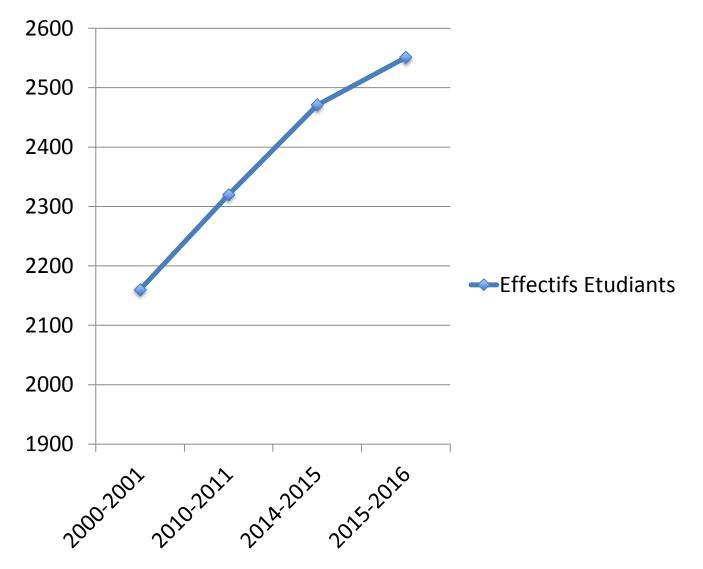
#### Motivation







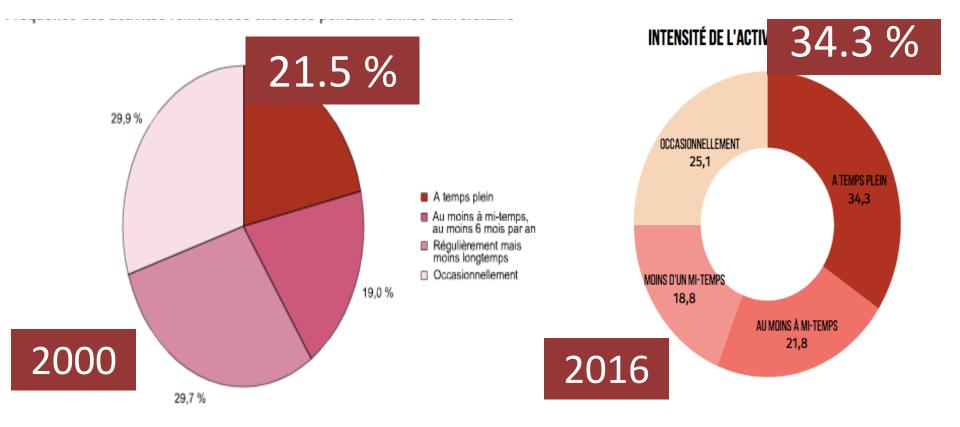
#### « Massification » & Diversification

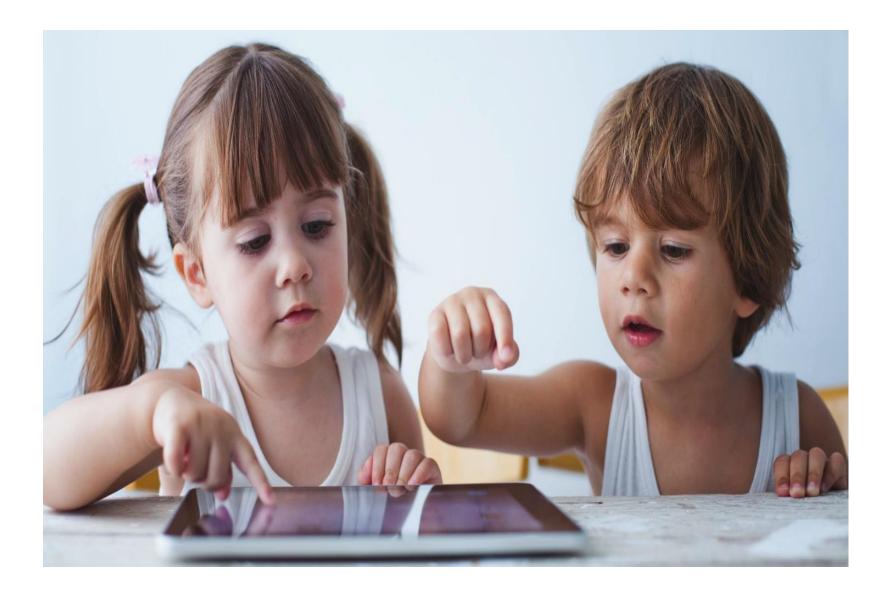


Source: NF Enseignement & Recherche N° 10

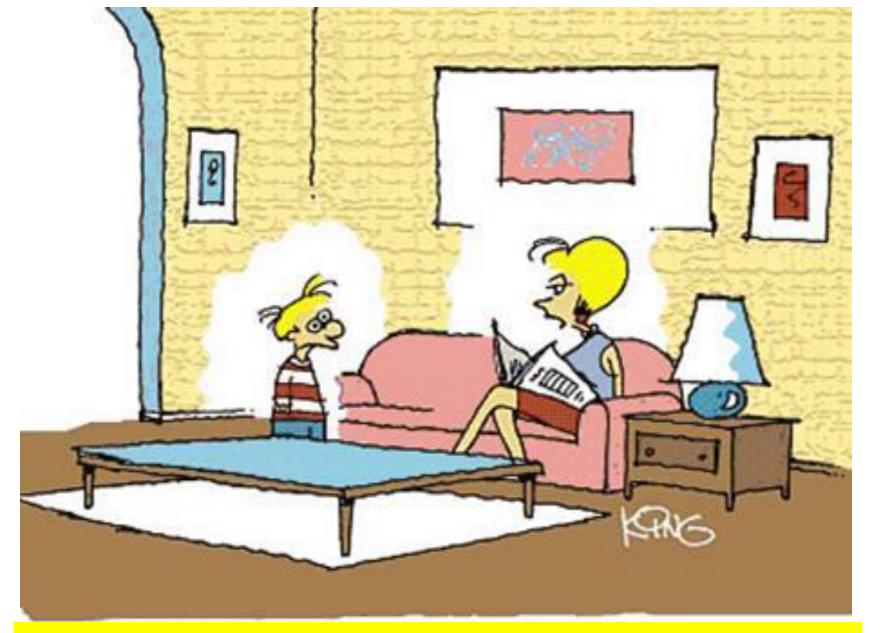
#### More flexibility needed

## Students working full time in France





Source: Sure point spy



#### « NO, you weren't downloaded. You were born »

# Generation Z is starting university - but is higher education ready?

Smarter than baby boomers and way more ambitious than Millennials: universities don't seem to be considering the impact of Gen Z



🕧 Change is coming and this new generation of students is leading it. Photograph: Alamy

# Characterics **Z** Generation

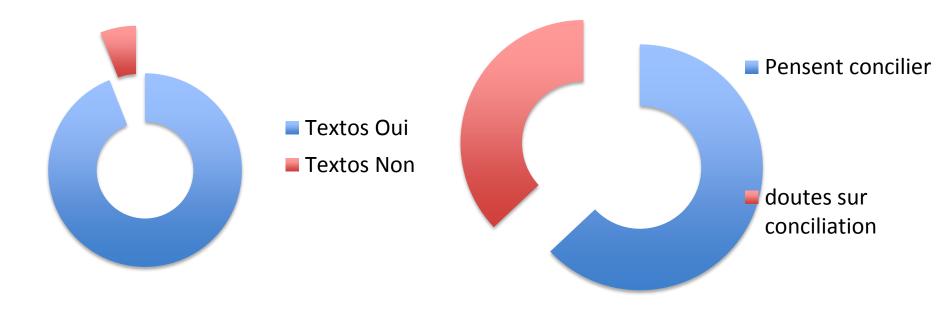
- Born after 1995
- Independent et responsible
- Entrepreneurial
- Favour applied and practical approaches to learn
- Use social network for research
- Communicate with images
- Are very connected....



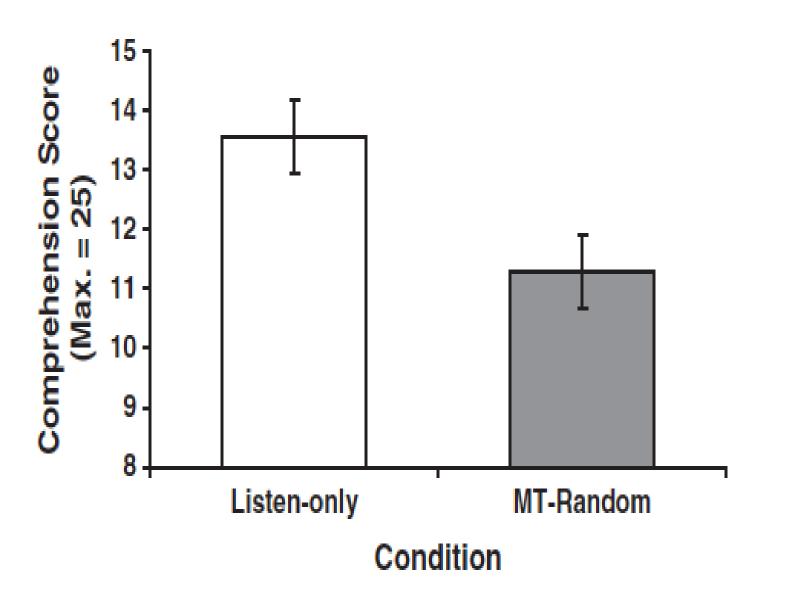
### « multitaskers »

94% recieve and send SMS

63% think they can concilitate sms and lectures



#### **Real effects on Learning**

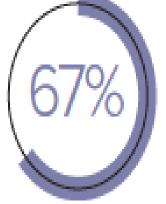


Pashler 2013

#### STUDENT STUDYING PREFERENCES



friends



Say studying together makes learning more fun



Like to exchange new Ideas with friends Like to help their friends learn

529

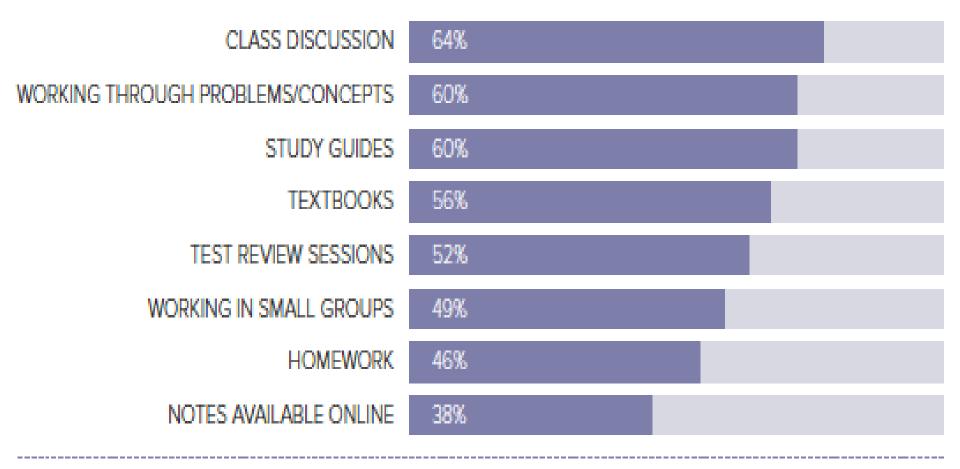


Study with friends in person and online

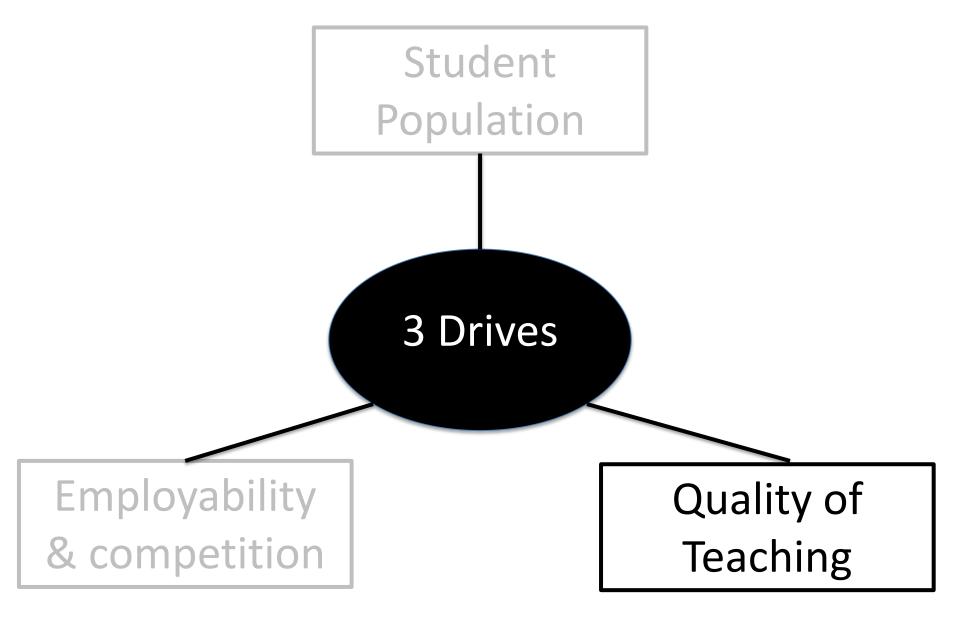
Respondents cited Skype as the top online tool to study with friends.

Source: Barnes & Noble 2016

#### MOST HELPFUL TOOLS FOR LEARNING



Source: Barnes & Noble 2016





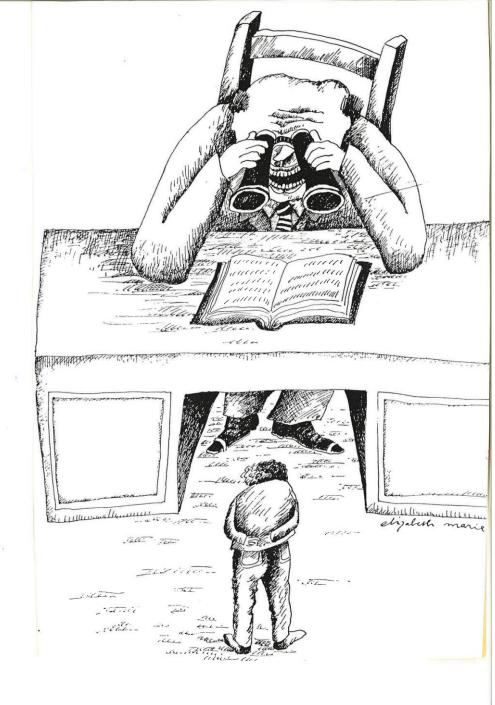
# berlin 2003

The quality of higher education has proven to be at the heart of the setting up of a EHEA. They also stress that consistent with the principle of institutional autonomy the primary responsibility for quality assurance in higher education lies with each institution itself and this provides the basis for real accountability of the academic system within the national quality framework

**Quality Culture** 

« Quality as a shared value and a collective responsibility for all members of an institution including students and administrative staff. » EUA 2006

## Student centered Teaching & Learning





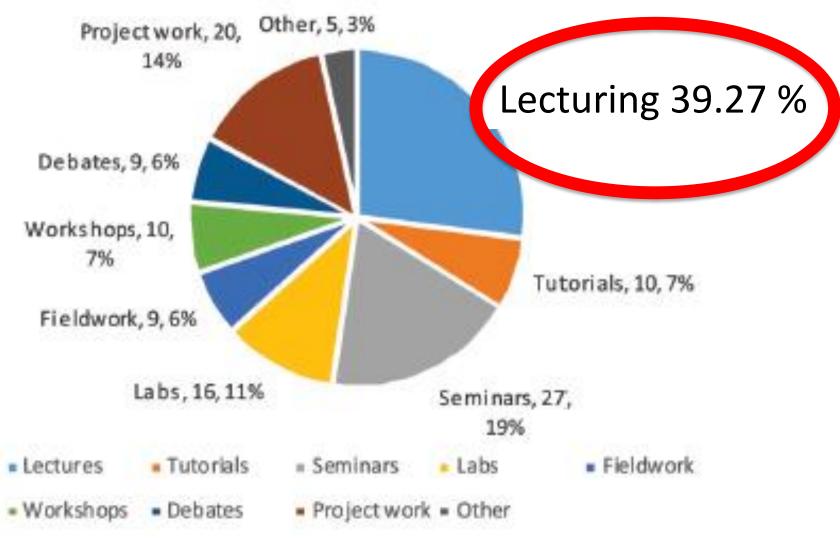
1.3 Student-centered learning, teaching and assessment Institutions should ensure that the programmes are delivered in a way that encourages students to take an active role in creating the learning process, and that the assessment of students reflects this approach

Standards and Guidelines for Quality Assurance in the European Higher Education Area (ESG)

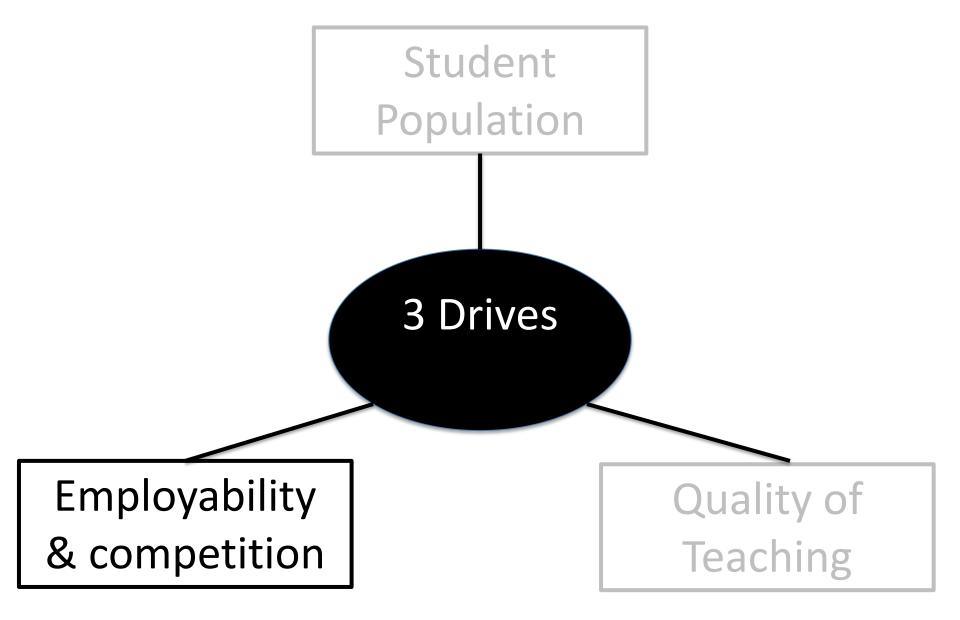
#### A multidimensional concept & cultural change



#### Lecturing remains the main strategy



Source: ESU Survey SCTL 2015





# Uni muss um Studis buhlen

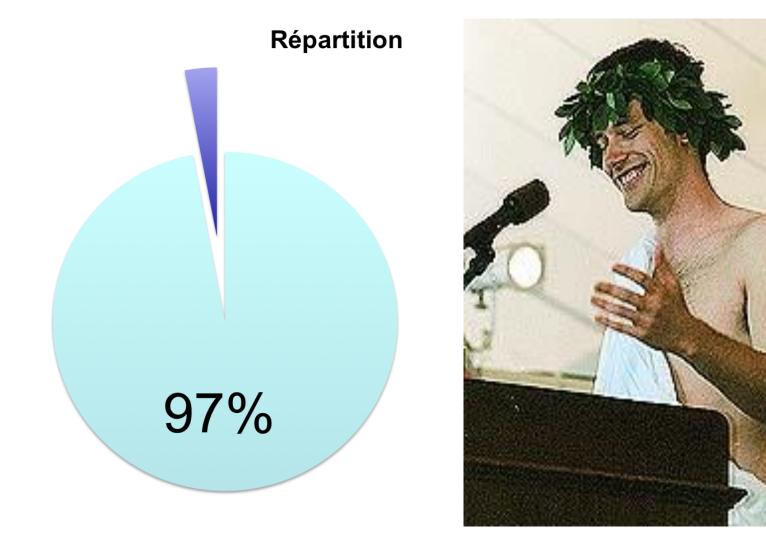
UNIVERSITÄT Die Studierendenzahl an der Universität Bern stagniert 2017 bei rund 17500 Immatrikulierten. Was auch bedeutet, dass man sich stärker um die Studierenden bemüht. Etwa um ihr Gedächtnis und ihre Lerntechnik.

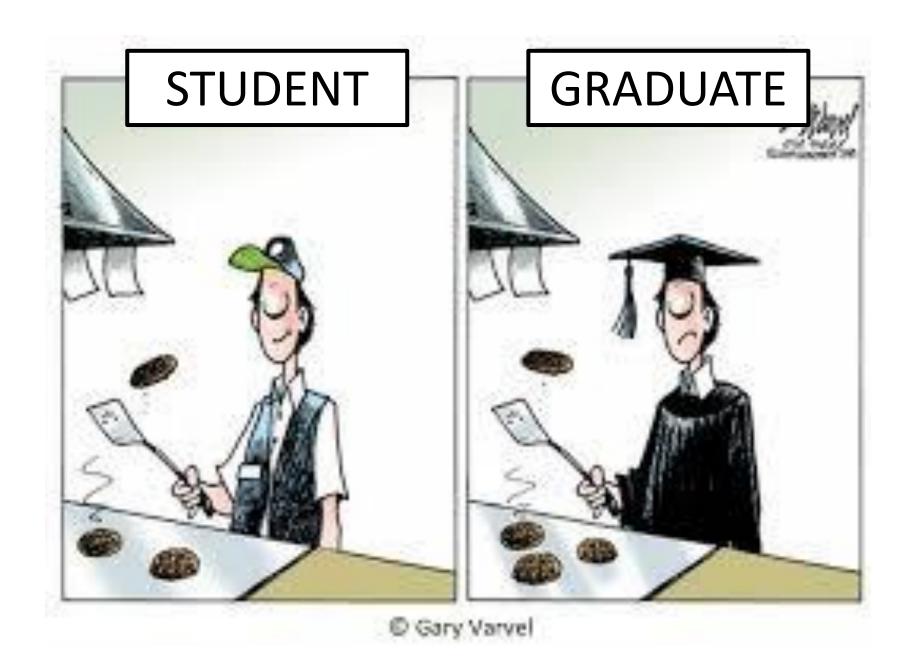
# Increasing competition

#### The best universities for the best careers .....

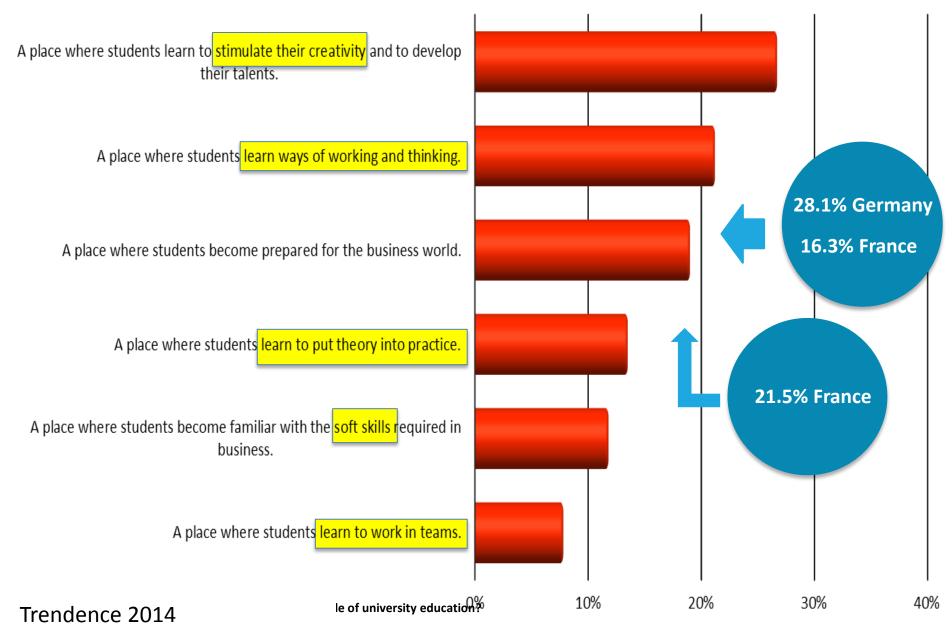


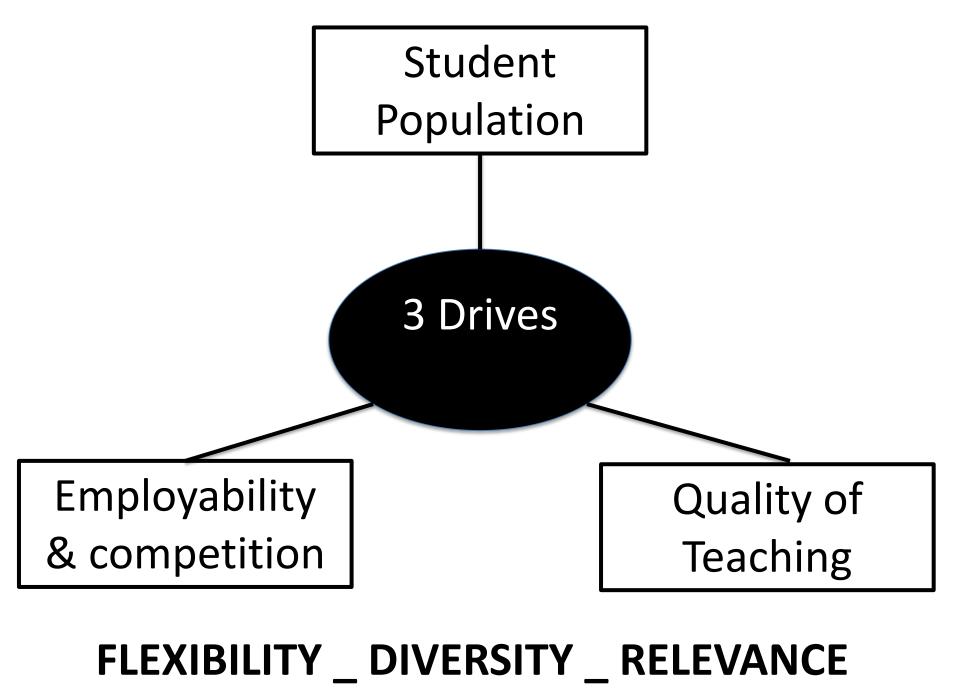
# < 3 % of students will pursue an academic carreer

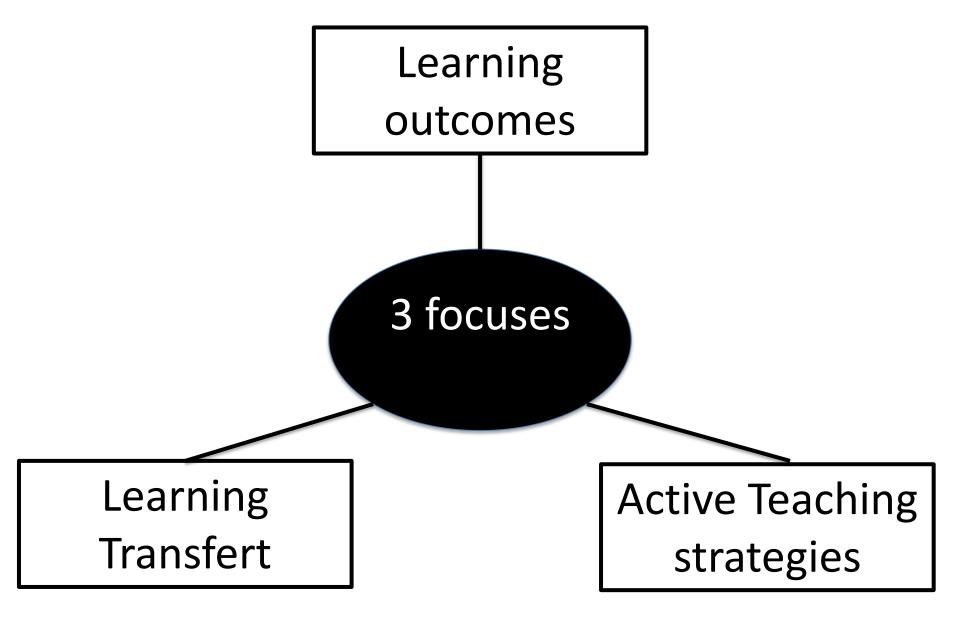


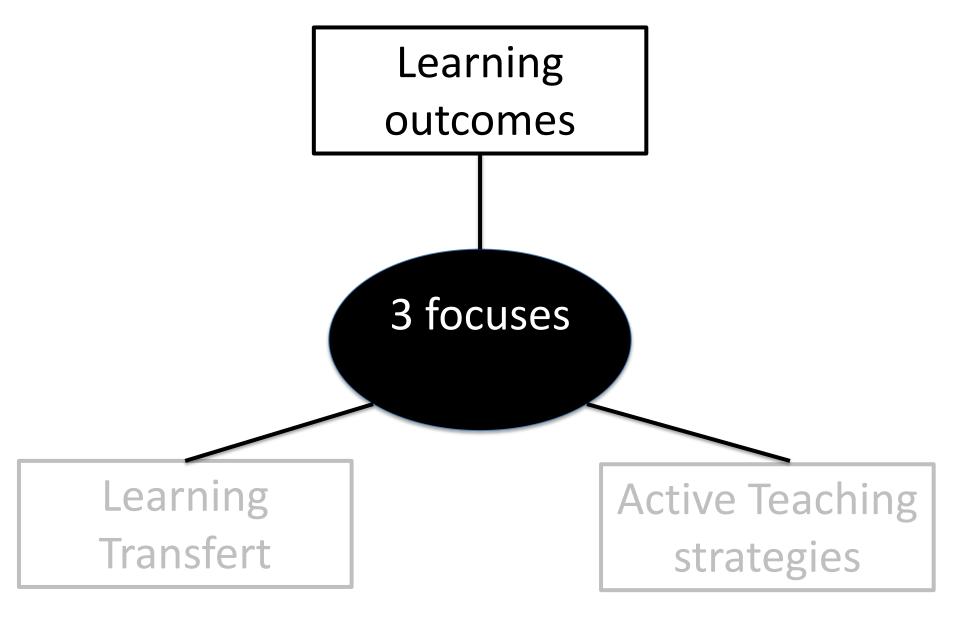


#### What recruiters are looking for





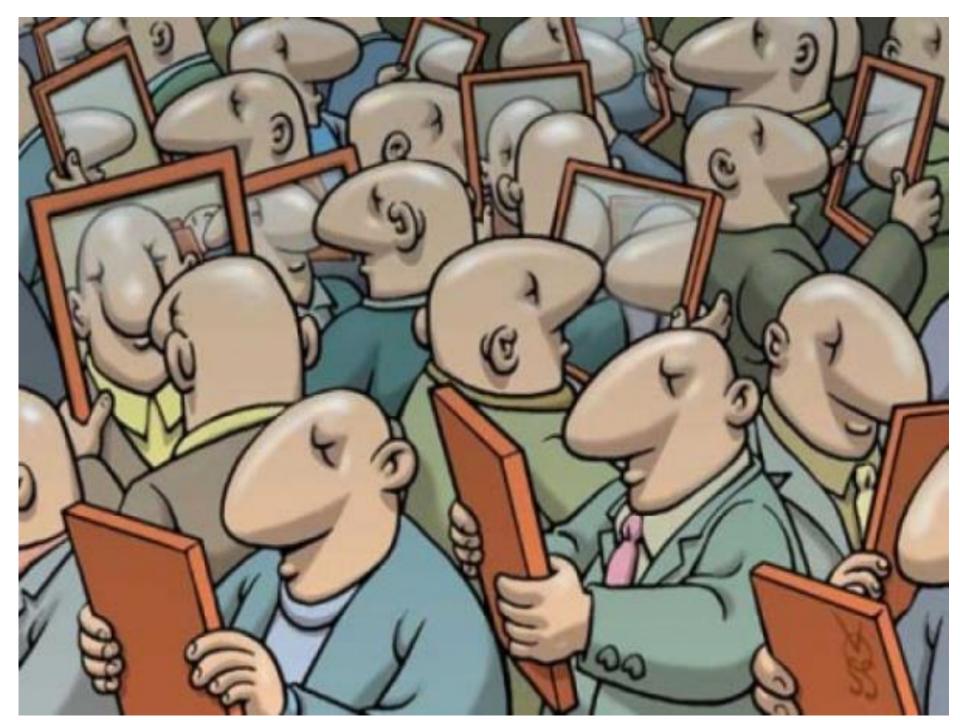




#### Learning Outcomes



#### **Corner Stone**

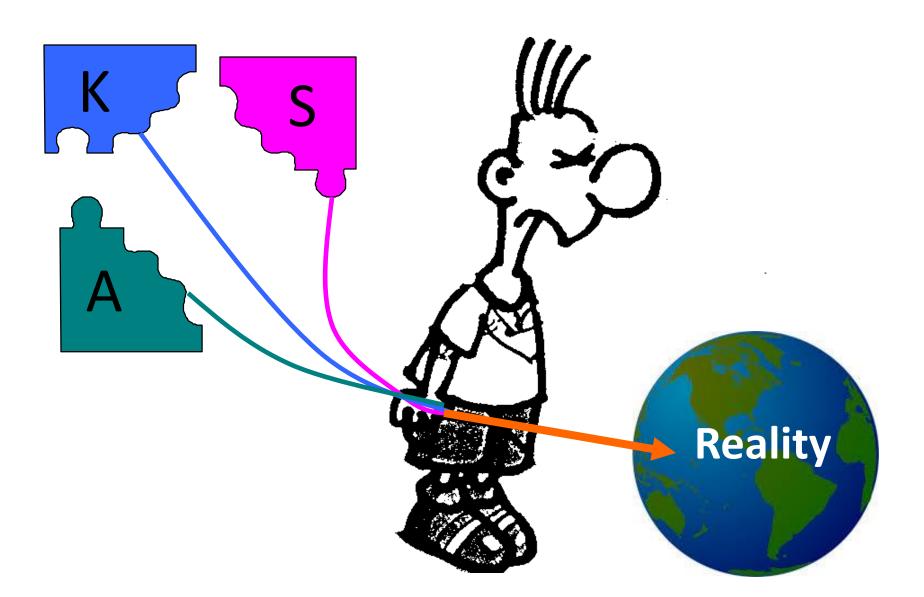


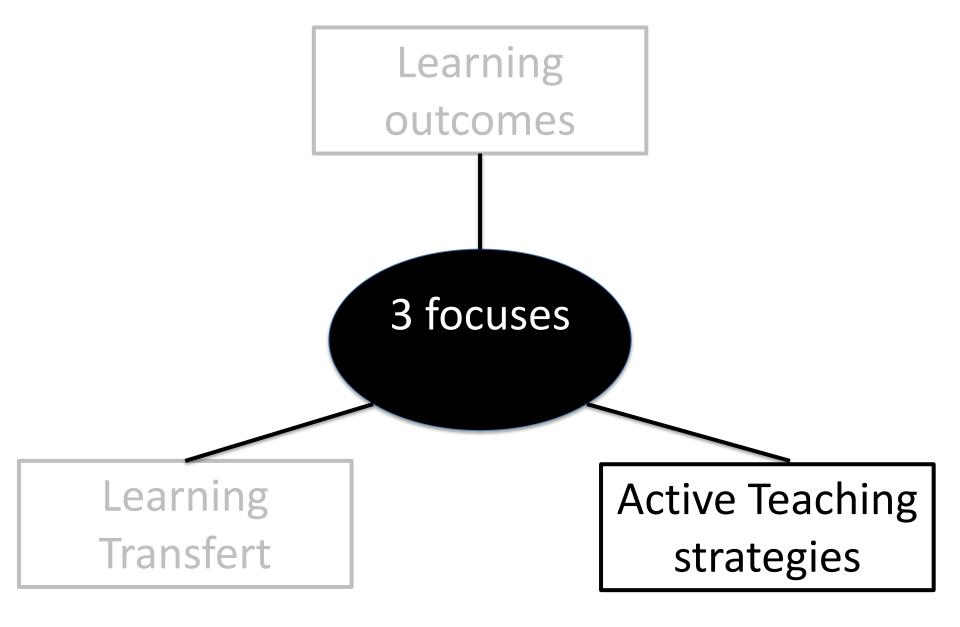
## Learning outcomes useful to:

## • Built

- Evaluate & assess
- Communicate
- Collaborate
- Support autonomy

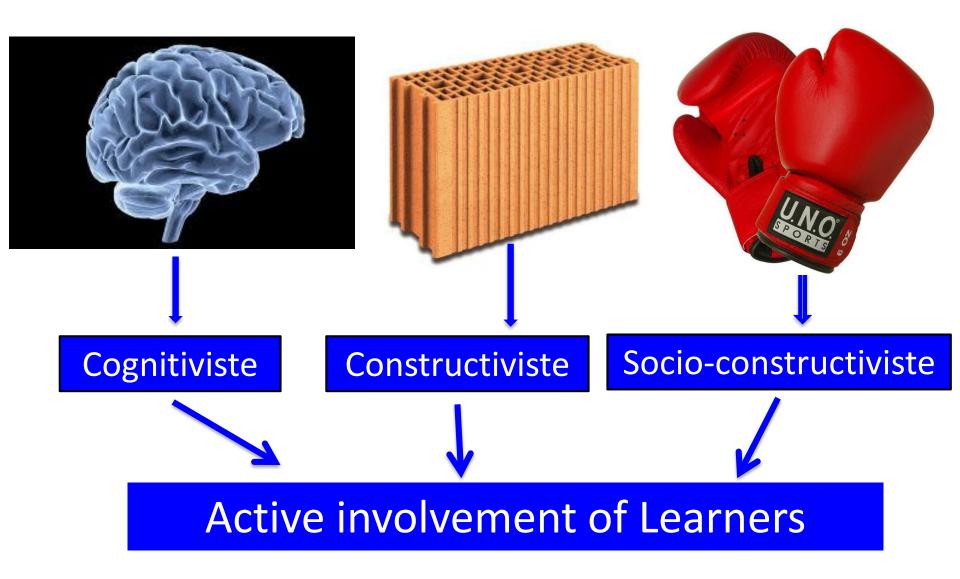
### The integrative logic of competences





# Can you tell me what happened last week ?

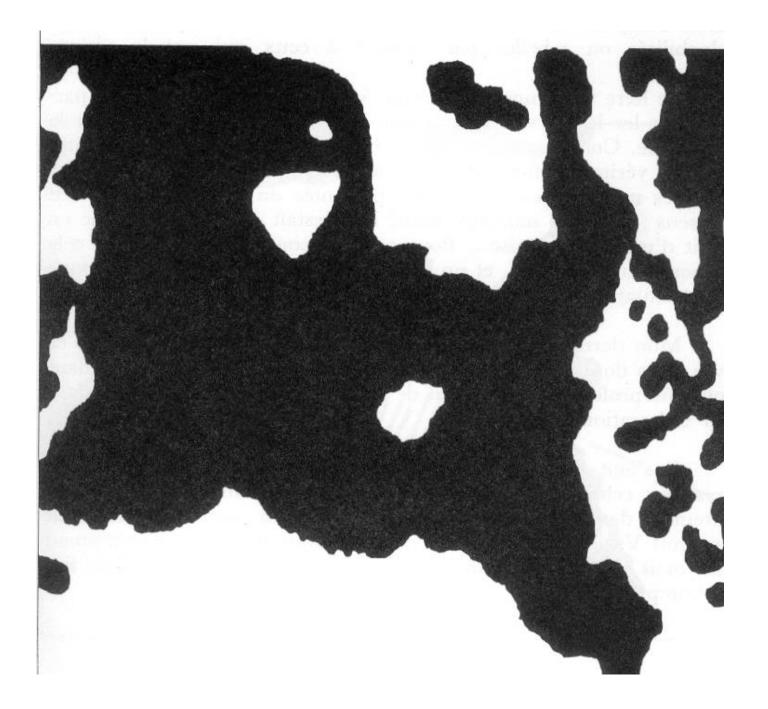
Nothing happened the Prof spoke all the time



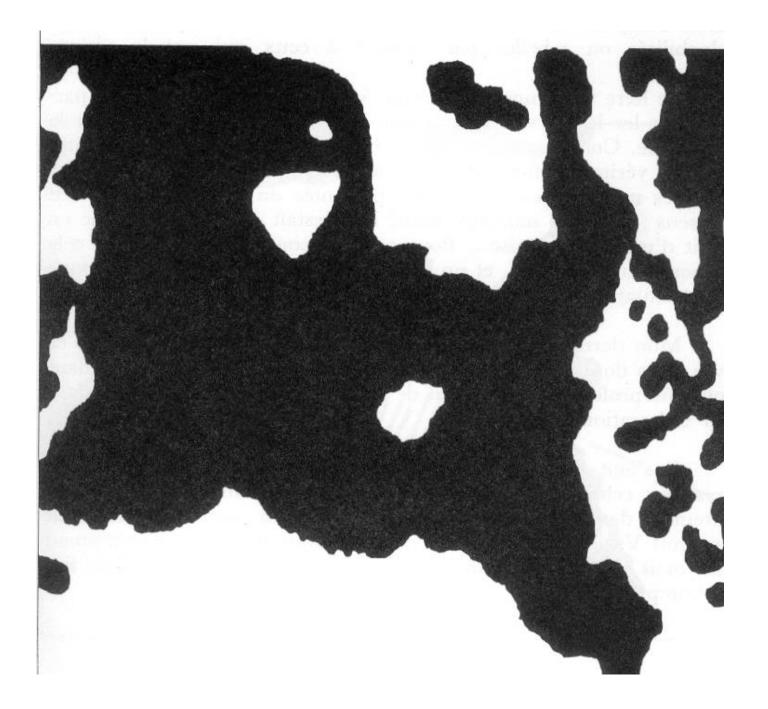


### Change

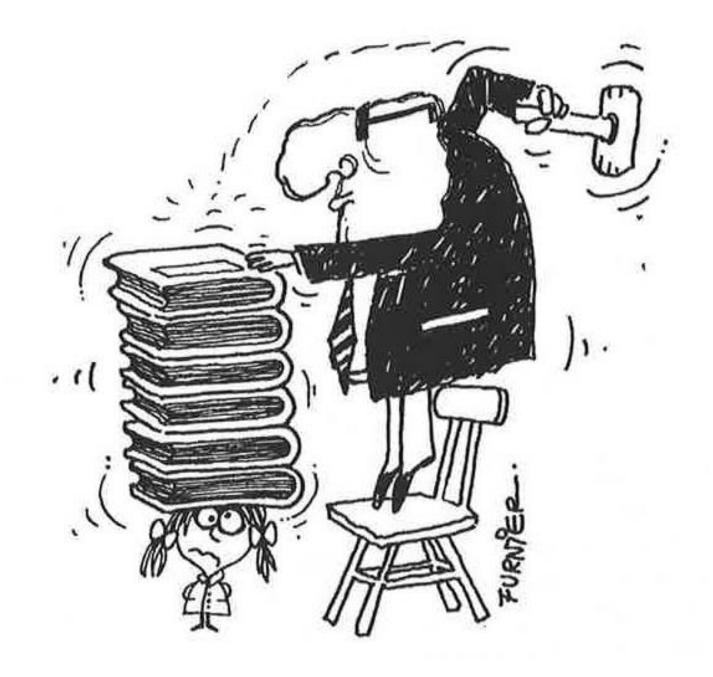
- Behaviour
- Representation

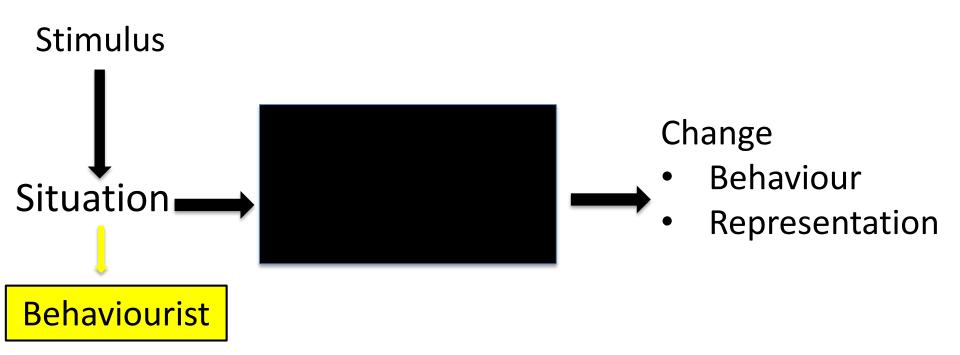


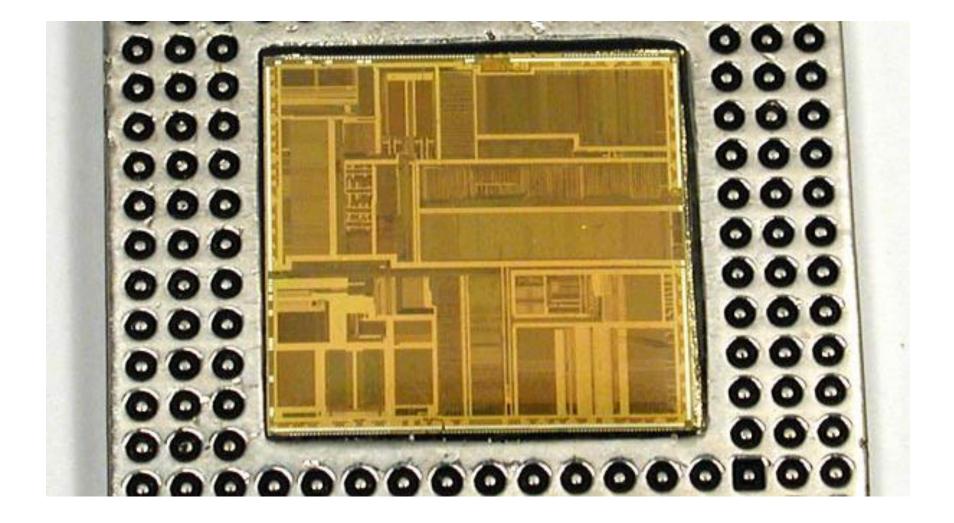


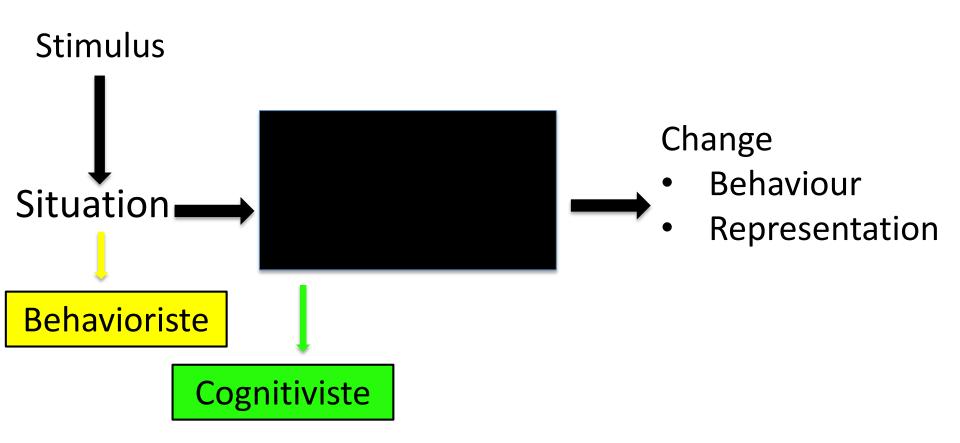


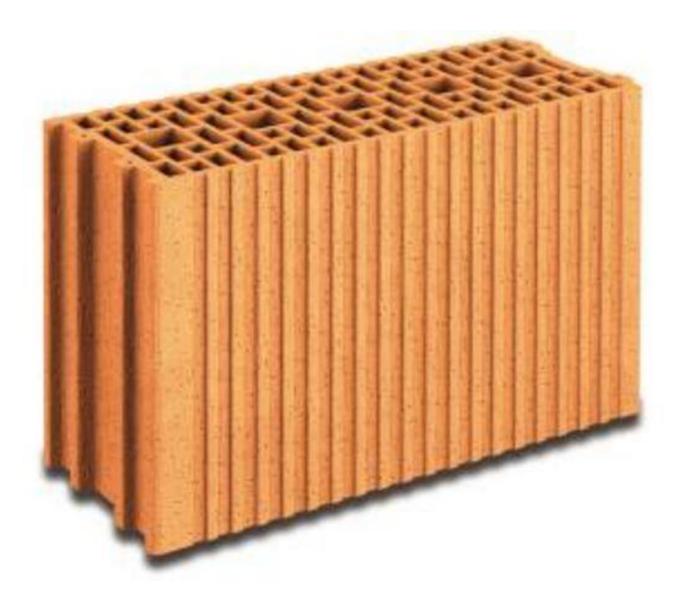


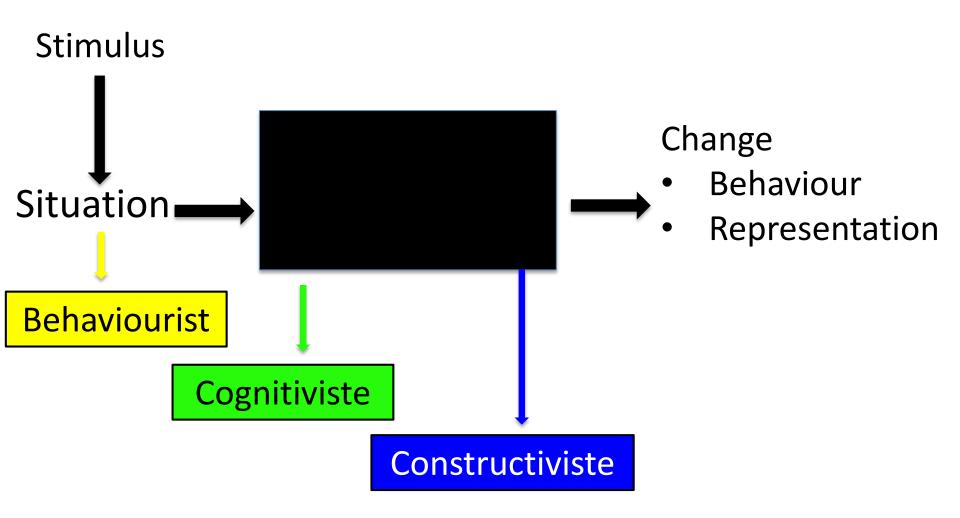




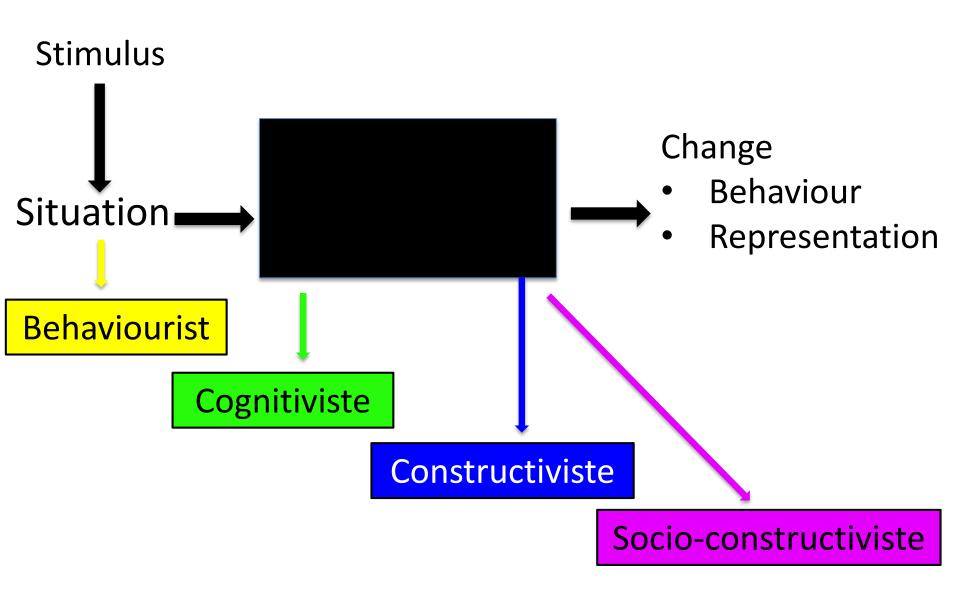






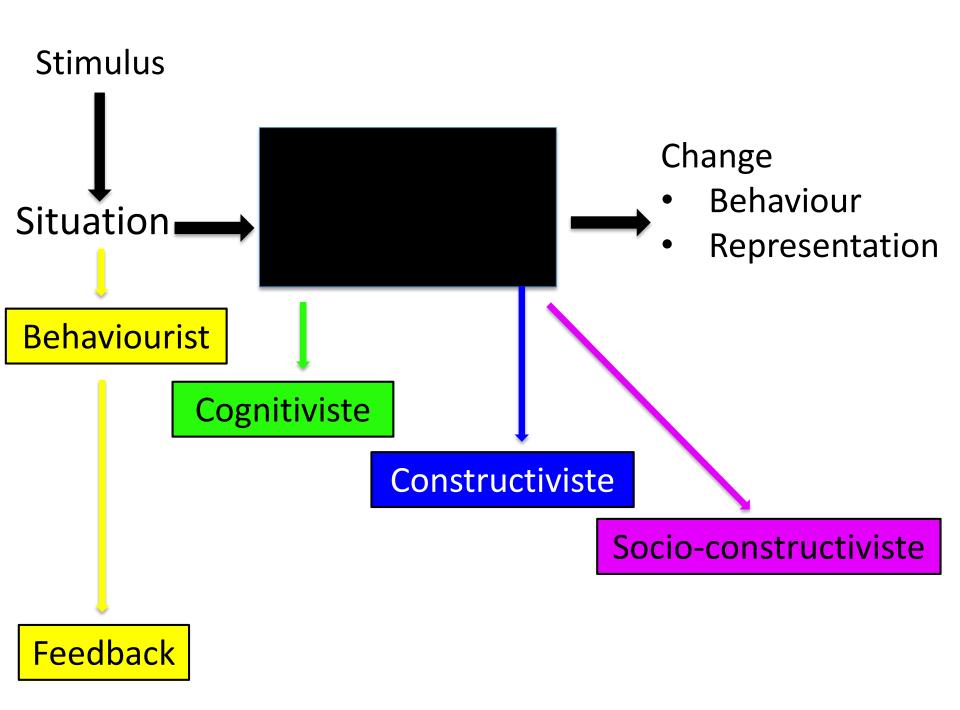


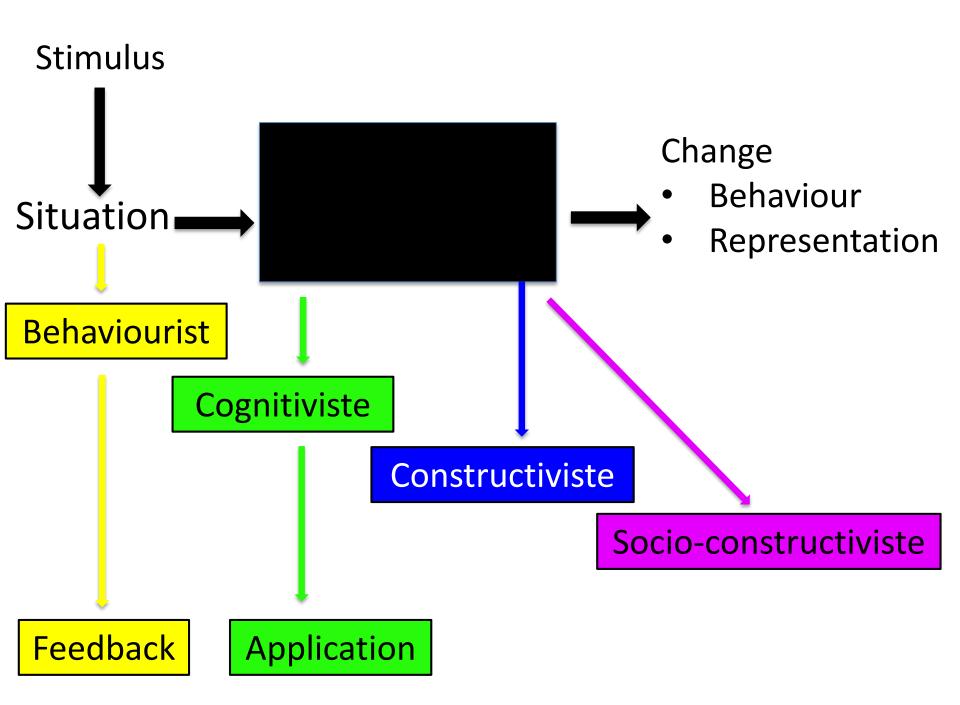


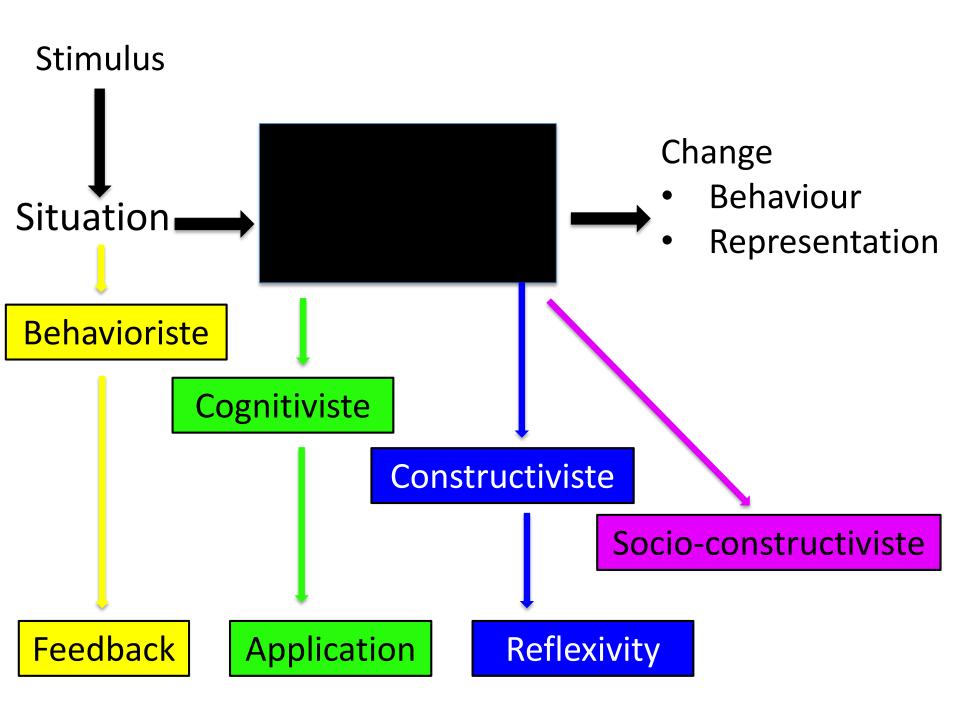


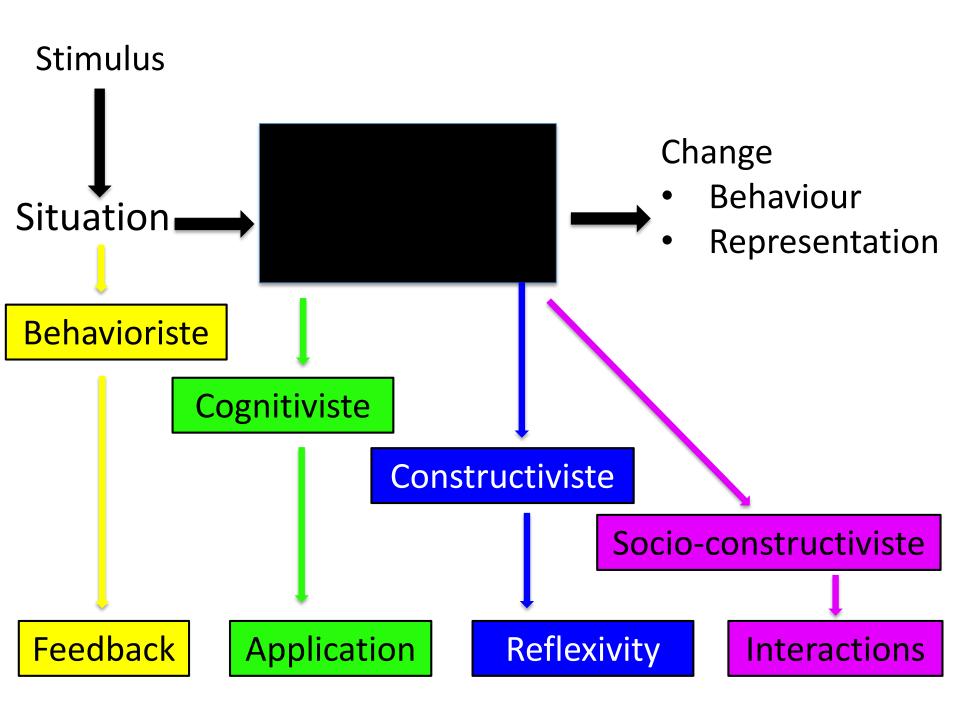
## Learning a co-construction

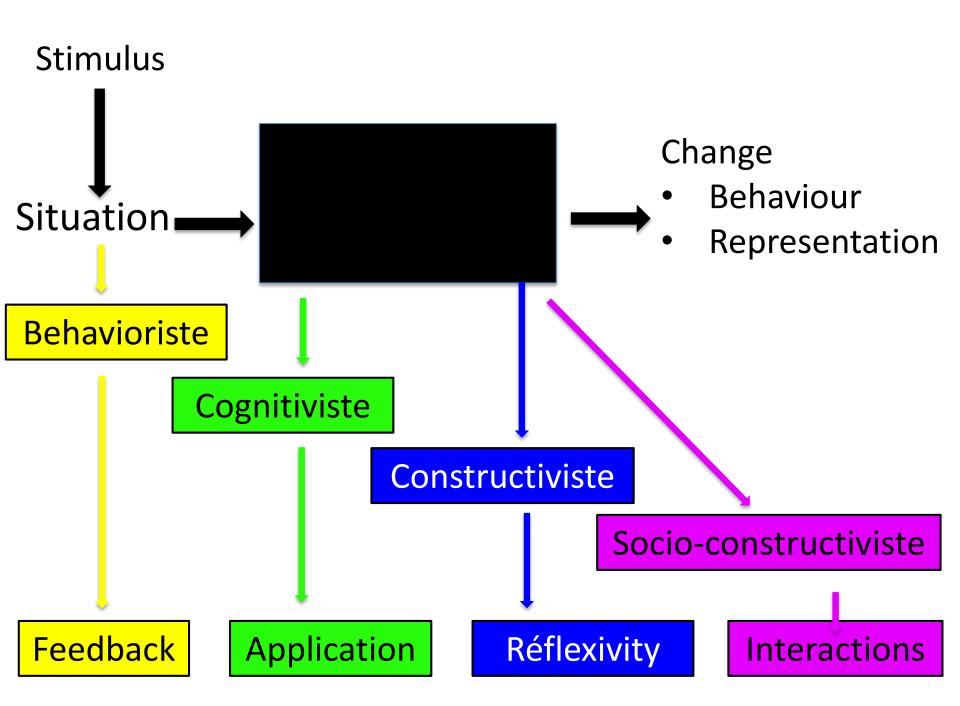


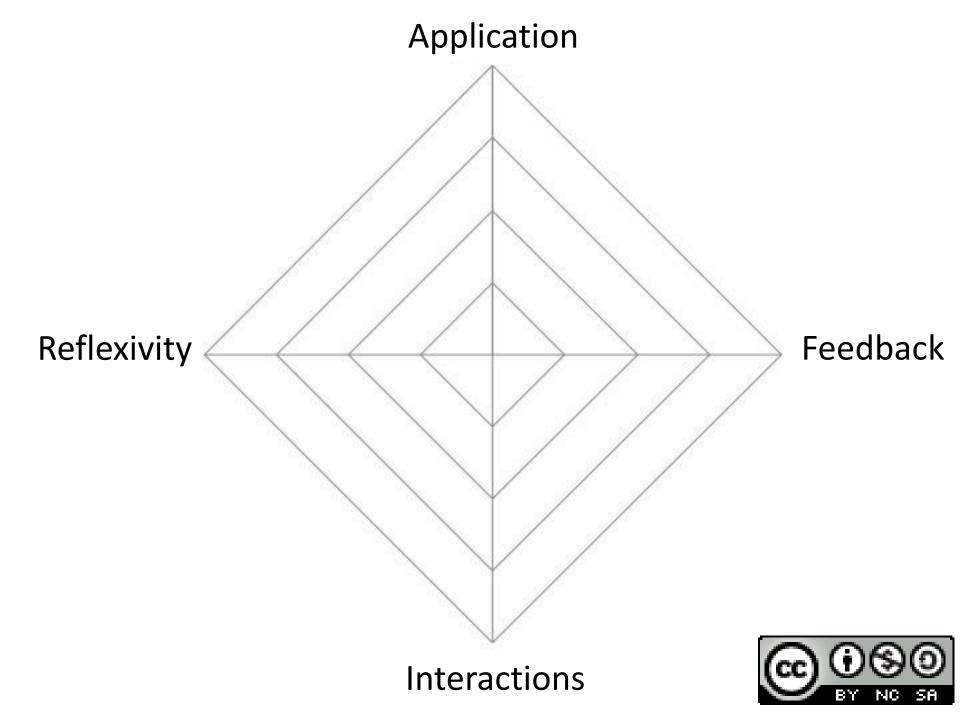


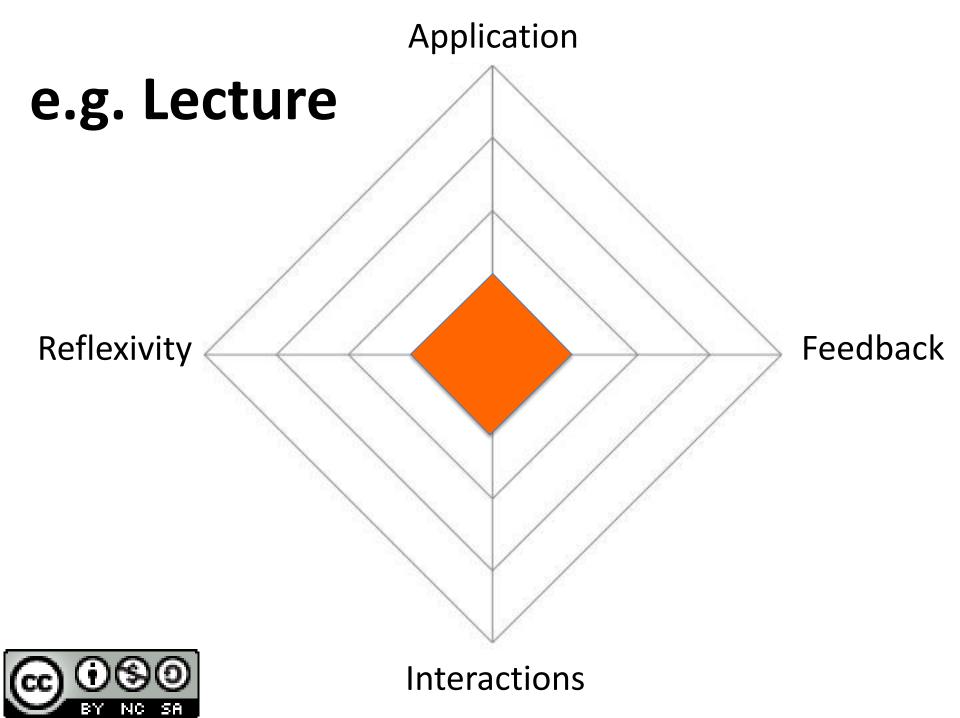


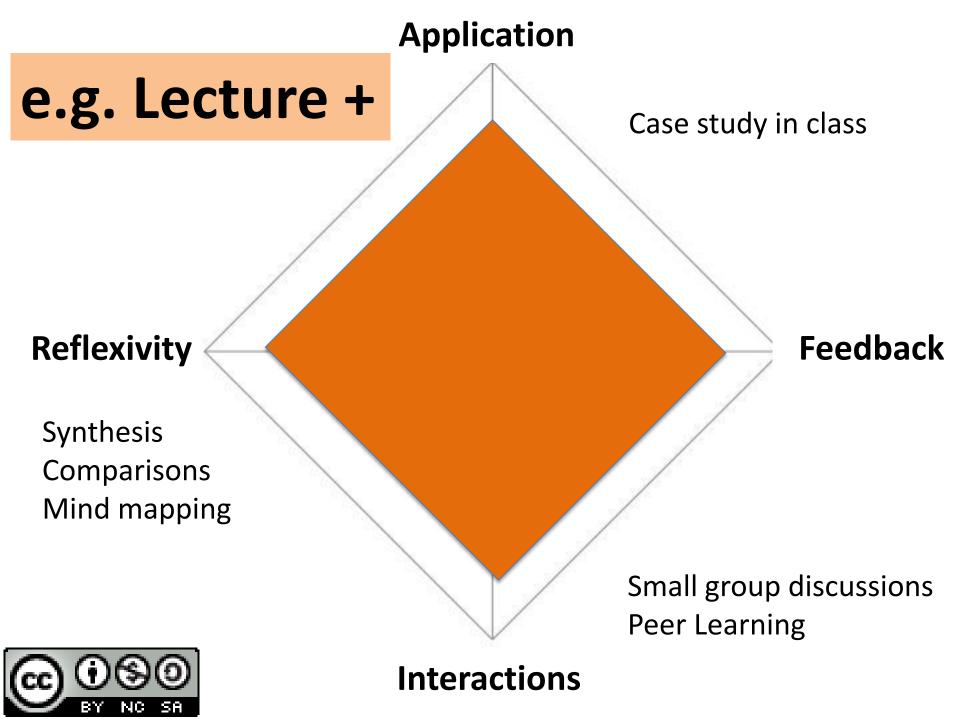


















## The MOOC revolution: Status and next steps

Andrew Ng Stanford University & Coursera

## Inside

Executive Summary

Trends and patterns in demographics and outcomes

Replicating and extending survey research on intention; teachers-as-learners

Visualizing the HarvardX and MITx course network

Differences across curricular content areas

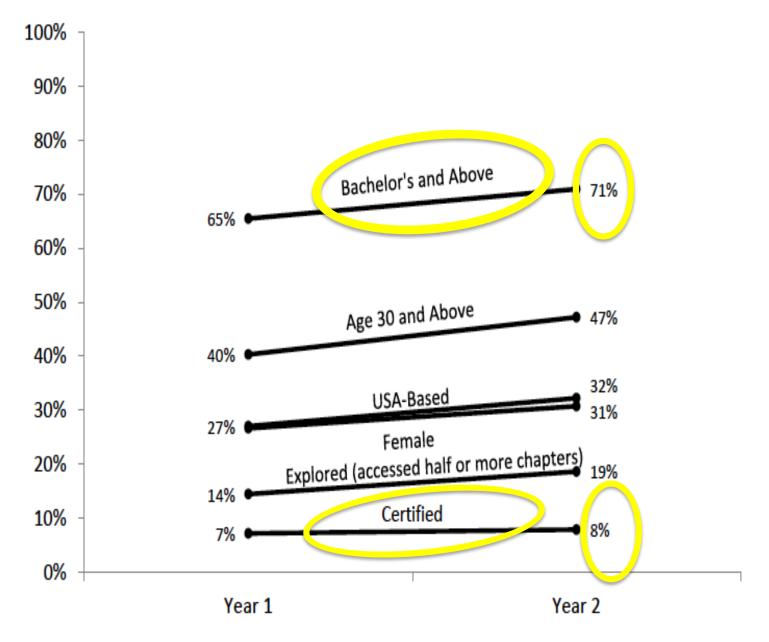
"Top 5s": Different ways of looking at open online courses

Preliminary results for those who pay for

## HarvardX and MITx: Two Years of Open Online Courses Fall 2012-Summer 2014



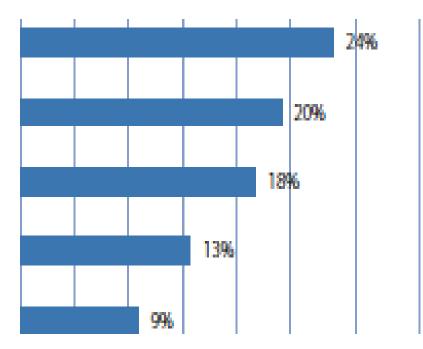
#### March 30, 2015



*Figure 1*. Trends in HarvardX and MITx open online courses, Year 1 (2012-2013, 604,932 participants, 16 courses) to Year 2 (2013-2014, 867,213 participants, 48 courses).

#### Figure 18: What is your institution's most important objective regarding the development of e-learning in the future? (Q44)

#### Top five objectives regarding the future development of e-learning



To provide a more flexible learning offer, leaving it to the student to decide whether they learn on or off campus

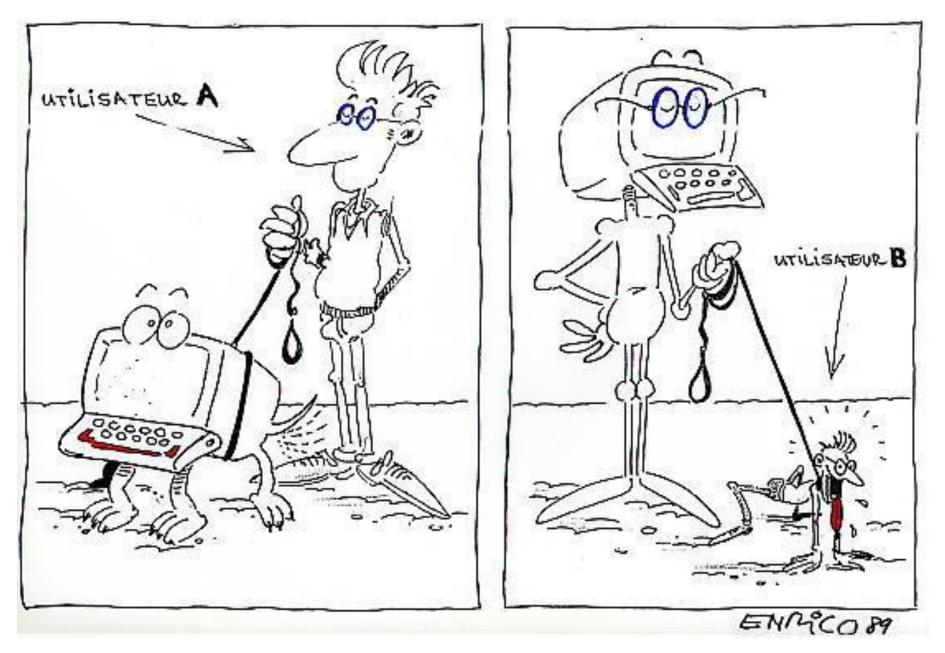
To increase the effectiveness of classroom time

To provide more learning opportunities for students who are not based on campus To provide more learning opportunities for on-campus students

To enhance internationalisation

Source : EUA - Trends 2015

#### Pedagogical reflection should take precedence over use of technology



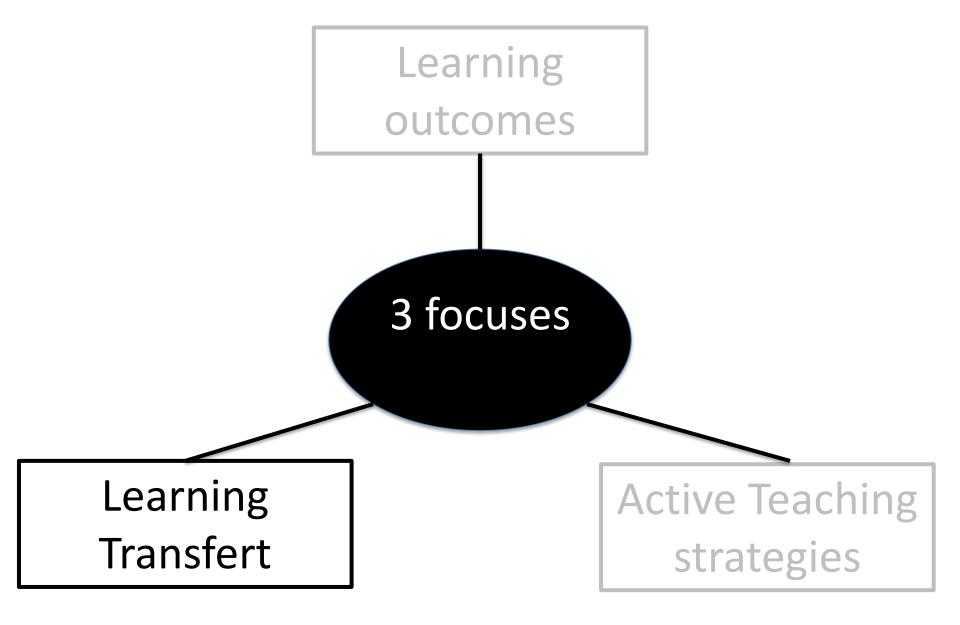


## THE FLIPPED CLASSROOM REVOLUTION

COMING TO A BRAIN NEAR YOU « Is active learning like broccoli? Student perceptions of active learning in large lecture classes »



Smith & Cardaciotto 2011



### Learning Transfert

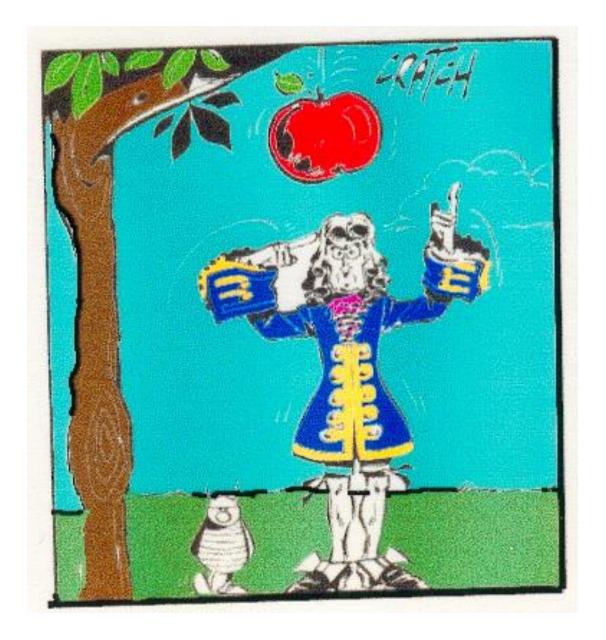


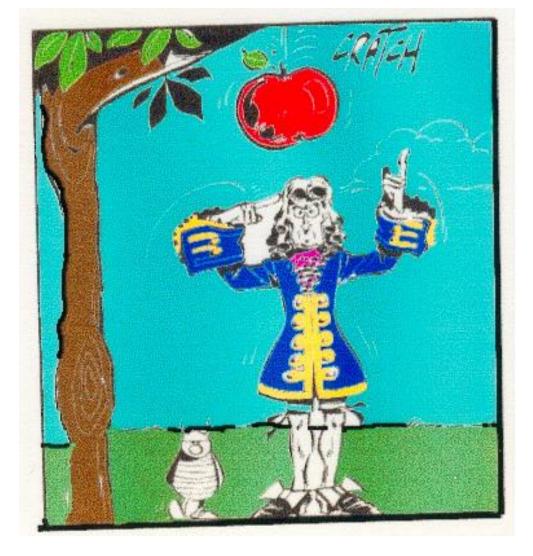
#### What is it ?

The ability to solve new problems in new situations by using knowledge learned previously in previous different situations

#### To train to build bridges

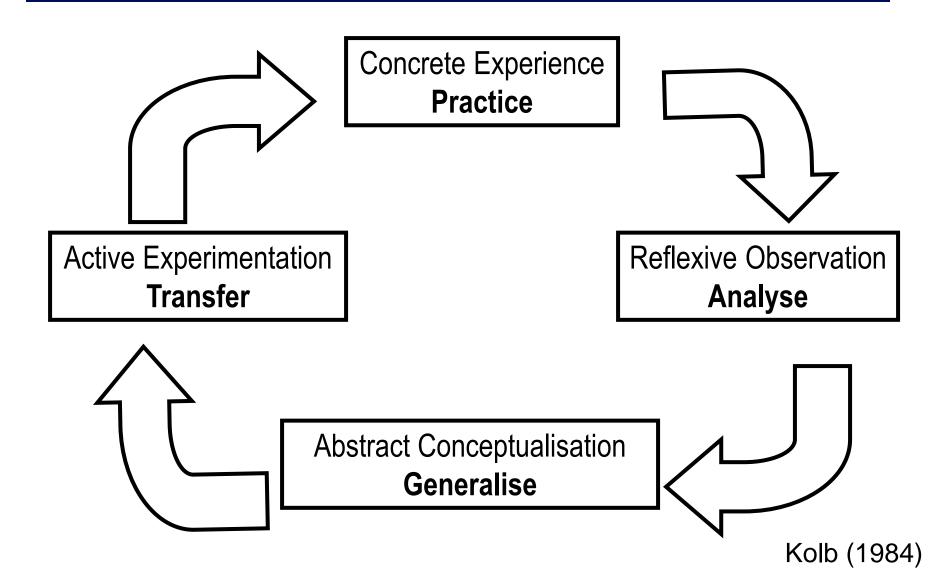


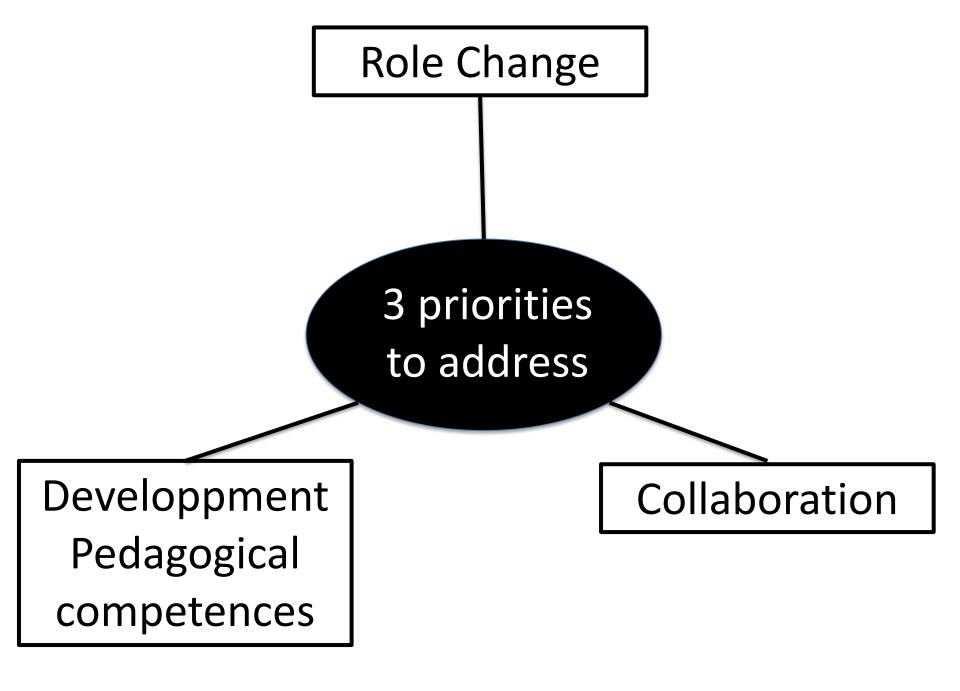


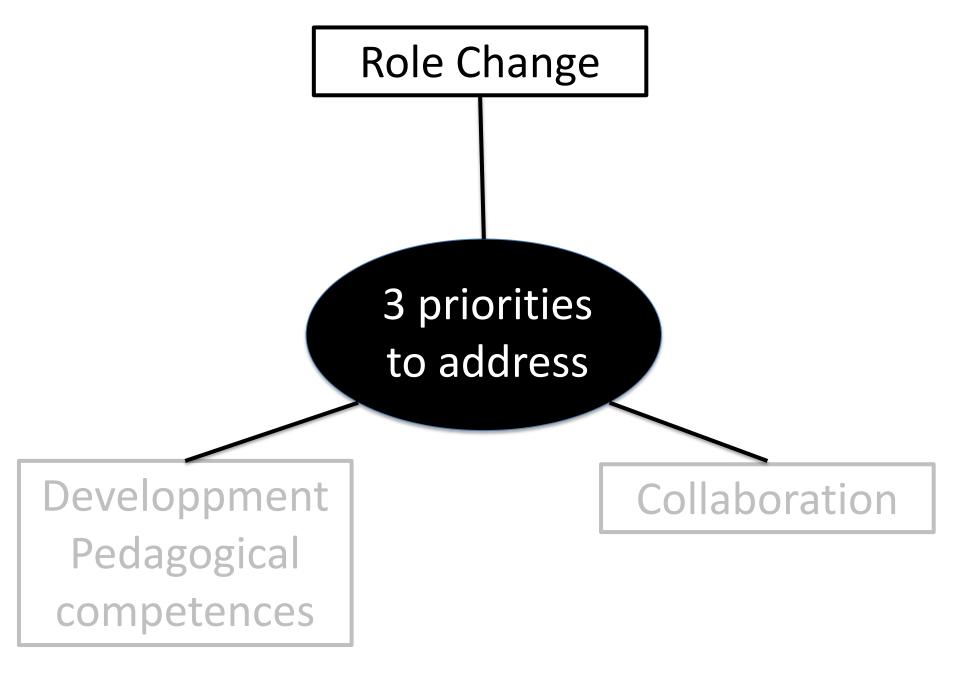


Learning does not come from what you experience but from what you do when you experience it

## **Reflexive Practice**

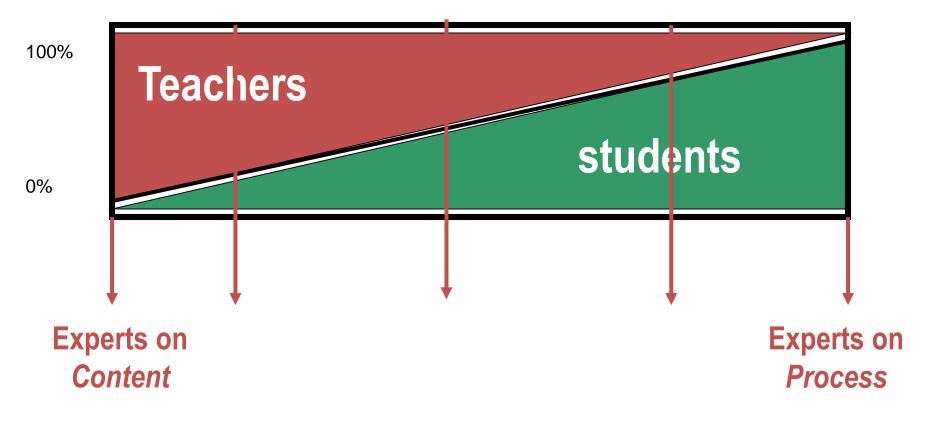


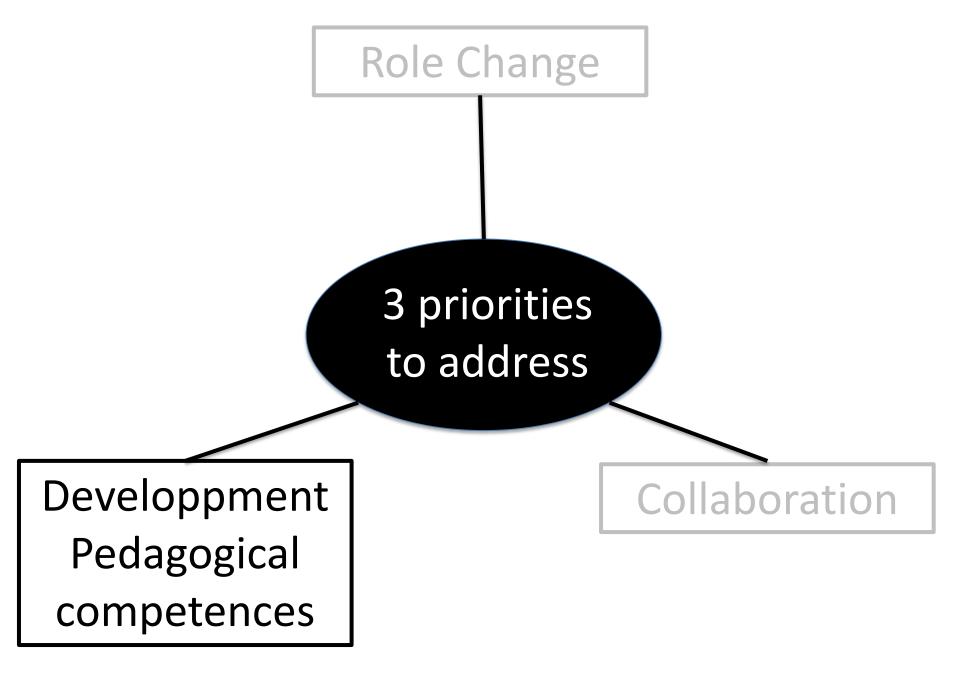




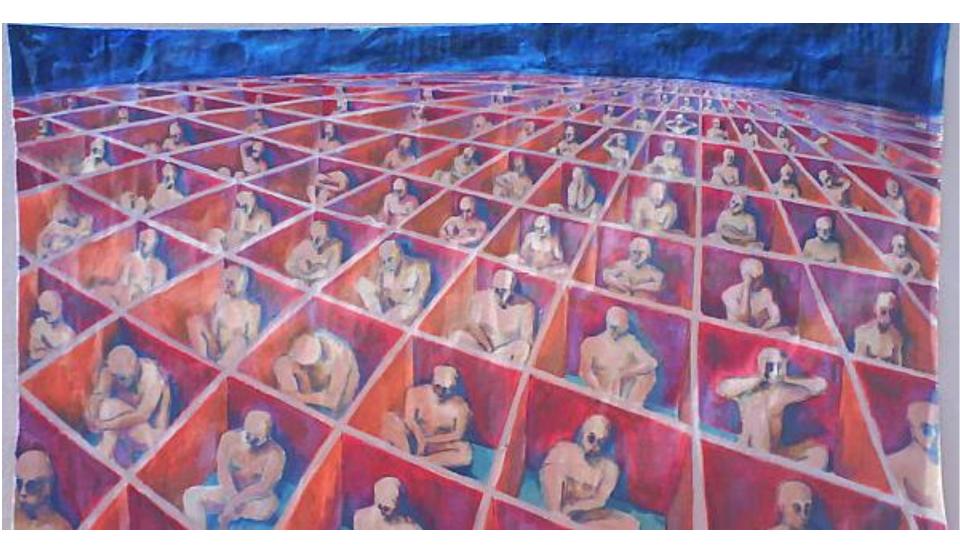
Un cours à l'université donné par Henricus de Alemannia (peinture de Laurent de Voltina (seconde moitié du 14e siècle)

Relation between role of teachers and degree of utilisation of knowledge and cognitive capacities of students





## Rather individualistic approaches...



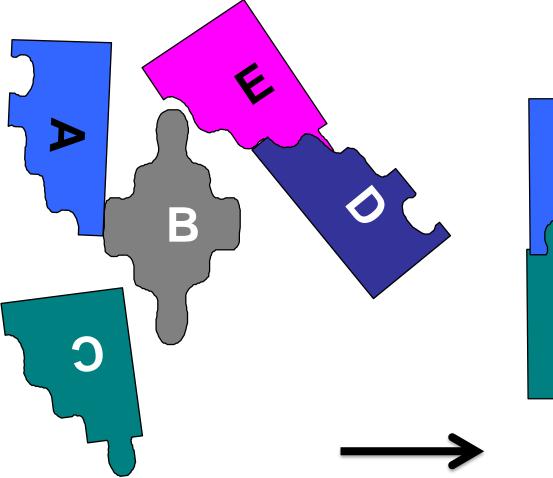
Organizing Higher Education for Collaboration

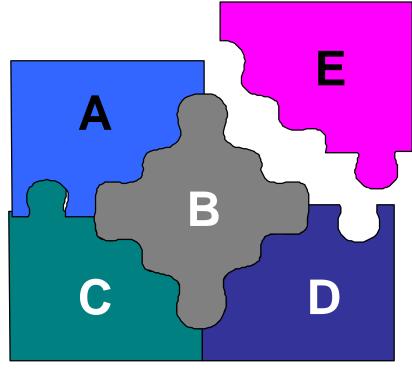
A GUIDE FOR CAMPUS LEADERS

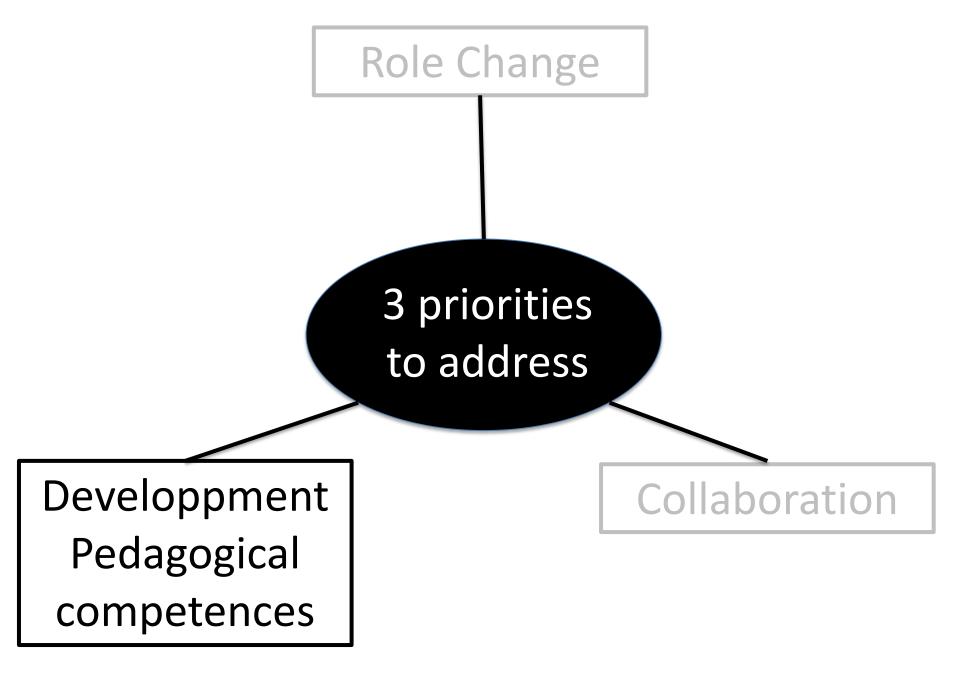
Adrianna J. Kezar | Jaime Lester

»collaboration has moved from an intuitively good idea to an imperative because of the overwhelming evidence of it's benefits «

#### Collaborate to elaborate a coherent project







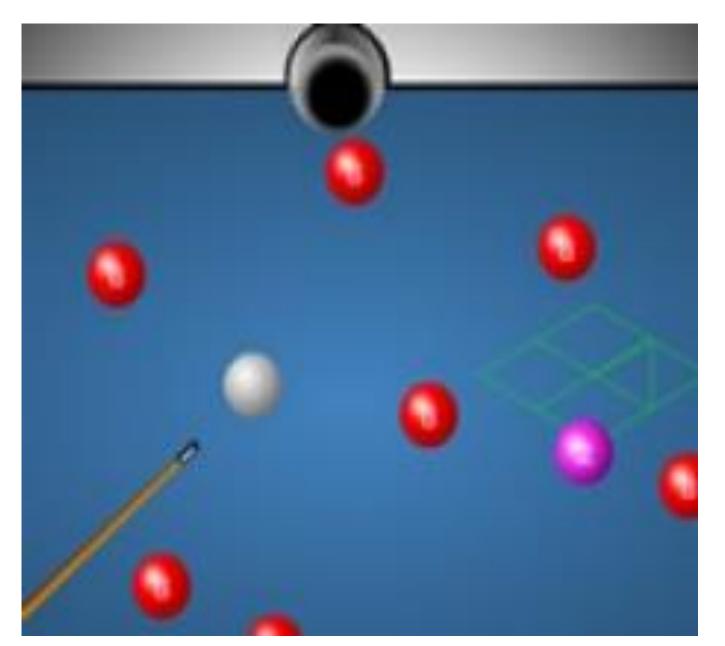


# 1.5 Teaching Staff

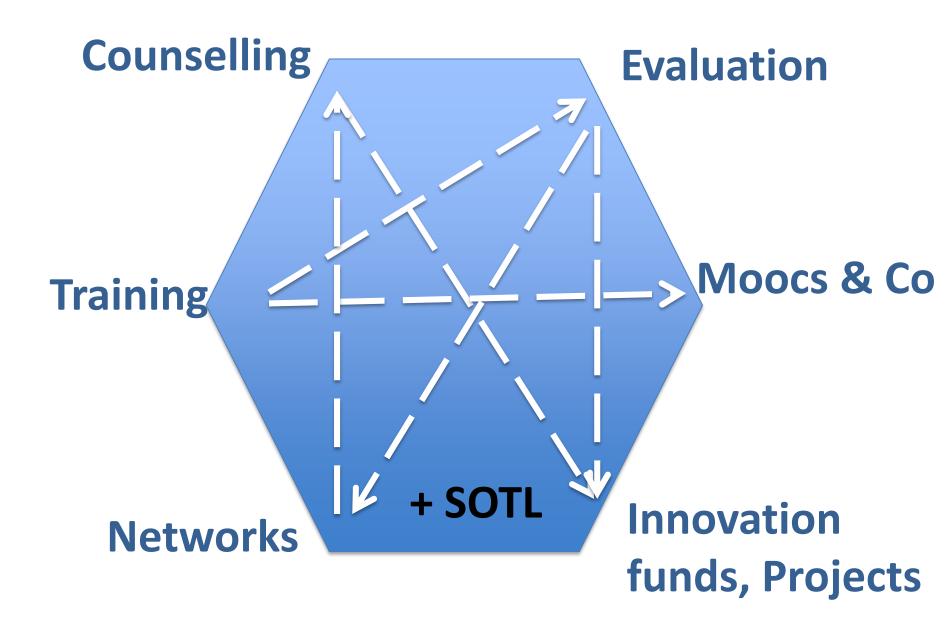
Institutions should assure themselves of the competence of their teachers. They should apply fair and transparent processes for the recruitment and development of the staff.

Standards and Guidelines for Quality Assurance in the European Higher Education Area (ESG)

#### To offer diversity and invite to « rebound »



## « Just in Mood – Just in Time »



#### **Development is inside a field of tensions**

#### **Reconcile Excellence in Research & Teaching**







## Make explicit A specific project

#### **Create a vision for Education**

- To take side and give coherence
- To give a collective goal to the university

#### In other words

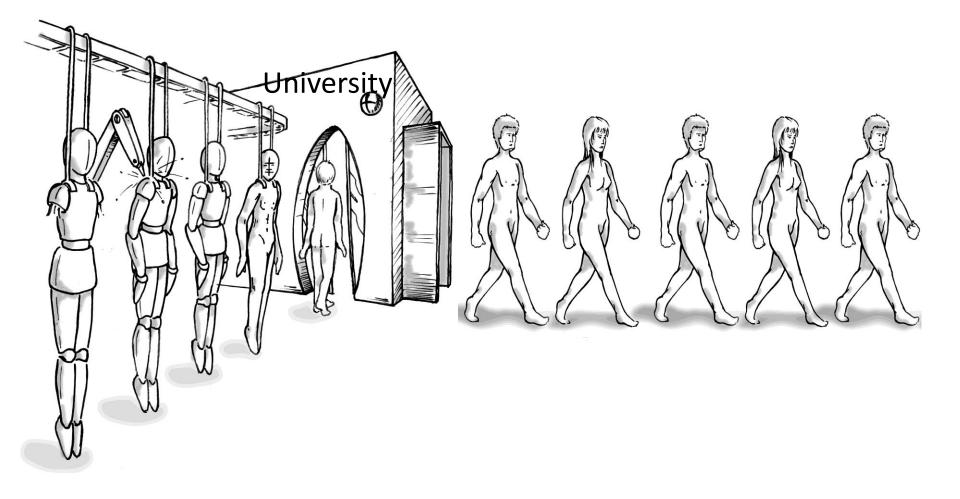
- What are our priorities regarding teaching?
- How to involve the community in this vision?
- How to make that vision real or concrete ?

# To sum up...

- Flexibility Diversity Relevance.
- Cultural Change
- A clear political support
- A real valorization of teaching
- Development of a Quality Culture
- Development of resources

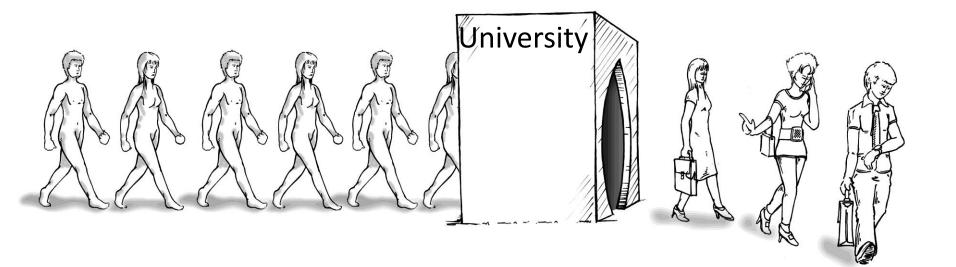


#### Learning, not an industrial process, but rather...



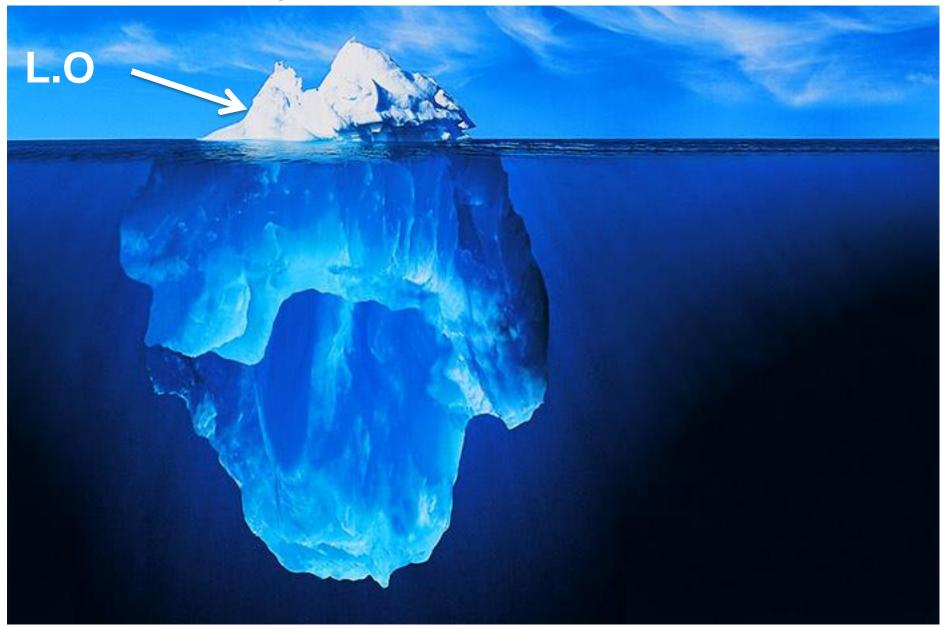
Inspired by I.

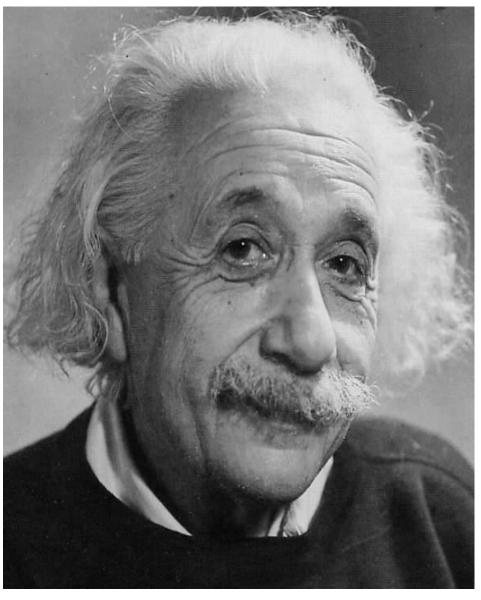
#### Learning, an individual process



Inspired by I.

#### Learning mainly an invisible process





« It is the supreme art of the teacher to awaken joy in creative expression and knowledge»

Einstein

## Thanks for your attention

### Jacques.lanares@unil.ch