

February 4, 2021

INTERNATIONAL DIGITAL SYMPOSIUM

**DISRUPTIVE LEARNING PATHWAYS** 

**REPORT** 



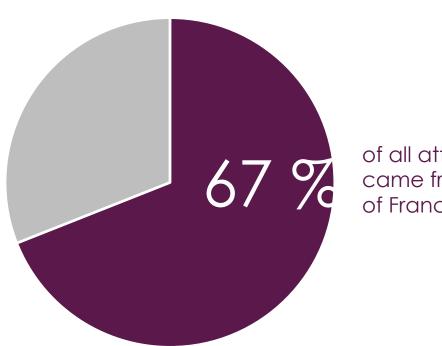
Review the programme



#### **CONFERENCE FEEDBACKS**

#### MOST ATTENDED ROUNDTABLES

Digital Technologies & Al Change management Keynote presentation by François Taddei



of all attendees came from outside of France

#### **REASONS FOR ATTENDING**

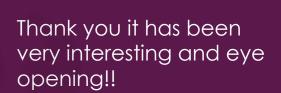
- Learn more about international perspectives of how Higher Education instatituions and businesses were dealing with technological, social and environmental factors influencing education and training (23 %)
- Sought practical advice on how to adapt their practices and develop professionally (18 %)

#### WHAT IS NEXT?

There was a strong demand for more events that dealt with how technologies can be used to improve learning and teaching.

#### **CONFERENCE FEEDBACKS**

Thank you very much for the organisation and the holding of this exceptional symposium, rich in content... I am interested in Edtech for future developments and wish to become more involved in hyflex. See you soon.



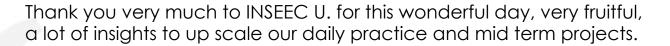


Thank you again for these fantastic and enriching insights!





Thank you very much for an enlightening seminar and for the organisation.



Very interesting this day! Thank you so much!







#### François Taddei's presentation

- The biggest challenge in our practice is to have students that lose motivation and suffer from loneliness. But what is inner drive? ... this is about to find out about the right level of complexity, autonomy and purpose.
- We have to empower the students, especially in such a global crisis.
- Not to compete but to collaborate on today's challenges, go beyond the walls invite students to choose among the challenges to create their own curriculum.
- To face the many challenges, contribute to collective intelligence
- Teachers now also need to learn from their students (reverse nurturing)
- We need to work on quality interaction with the tools: reducing distances offers the world, enabling students to participate in their own and other classrooms around the world. This is promising for online learning.
- Creativity is about engagement with oneself and others. We do invite students to care for themselves, help in their neighbourhood, work on various dimensions.
- It is all about how do we transform ourselves... what is the Ikigai of universities and schools? To foster closeness through mutual vulnerability.
- Three universal dimensions (meaningful to each of us): care (in the case of vulnerability), fairness (social animal), freedom
- We are part of a community of change-makers... Being reflexive the best way to learn celebrate the learning –this is just the beginning
- No global citizen but things are global.
- The best way to collaborate : science, education, philosophy, debate, democracy AI (artificial intelligence) and the social networks but aware of the limits
- In the competitive system, we tend do forget to think about our emotions, nature we exploited them but we need to reconnect to ourselves, others, the nature. Circle of caring should expand progressively to reconnect to all dimensions, to the learn
- What we learned this year try collectively to make a difference!
- A new global enlightenment much more inclusive, democratic
- What do we take of the past ? -> think collectively what we want to keep. Every discipline has something to bring. No discipline is superior to others; we need to think out of the box if you want to make a difference.
- Competition has its own advantages and drawbacks. We do so little and we could do so much by collaborating –if not, that won't work in the long run. But the good thing: being helpful is speeding up the transition. Go on cooperating for the world of tomorrow.
- Enable each young person to find his or her « Ikigai » (meaning of life),
- The transformation of jobs, and not only because of (or thanks to) Al
- The concept of « fractal thinking », of « multiple belonging » : think of oneself as citizen of his or her village, country, continent,

- The ethics of responsibility and action (Aristotle) faced with the power of science and technologies in our world of today and tomorrow
- « From the moment when machines learn, we shall also perhaps need to learn differently. »
- « Yesterday's solutions are in machines ».
- « Be able to ask questions »
- « Be able to live together with IAs and human beings who become ever more mobile »
- « wandering is human » / « researchers are explorers »
- « we need to find news ways of exploring, as individuals and collectively »
- « we are all born researchers » and « what matters is to learn from his or her errors. »

#### LINKS SHARED DURING THIS PRESENTATION

- https://projects.cri-paris.org/discover
- https://cri-paris.org/en/resources
- https://www.danpink.com/books/drive/
- https://projects.directory/projects/sunzTlai/summary
- https://welearn.cri-paris.org/pages/onboarding.html
- https://www.ted.com/talks/brene\_brown\_the\_power\_of\_vulnerability
- https://www.nytimes.com/2015/01/09/style/no-37-big-wedding-or-small.html
- https://www.amazon.com/Why-Need-Teacher-When-Google/dp/0415468337
- https://www.dfcworld.com/
- https://vimeo.com/124807220
- https://learning-planet.org/en
- https://www.unicef.org/press-releases/world-failing-provide-children-healthy-life-and-climate-fit-their-future-who-unicef

#### « Smart & Green Campuses » round table

- Green & sustainable skills need to be addressed in the curriculum for students, of course, but also for teachers & administrative staff, and this not on a single basis but on a regular basis.
- Campuses should not only be a platform for digital learning but also should become a platform for sustainability.
- We need to apply not only quantitative and more qualitative approaches.
- We need to clarify to avoid frustration as there are different visions as to what matters, what should be done, why different actions are important or not.
- In our competitive system, It is about creating a remote learning community, reconnect to each other and nature for sustainable development.
- We need to define the purpose, reinvent the approach, listen to students : adaptability, interactivity, creativity, collaboration, autonomy.
- A smart campus should function as a true ecosystem, with all its elements sub-independent and necessary to each other: No boundaries between staff, students, teachers.
- Responsibility is the key word for a smart campus. The ability of each individual to respond.
- See out of the box, especially in uncertain times / complex and fluctuating environment to search for puzzling, valuable, multi-modal solutions and to personalize students' curricula.
- A new paradigm in higher education is therefore emerging as we are facing new and innovative ways of learning and teaching to accommodate all students under all circumstances.
- In the end, it is the true quality experience we create for the students on the individual level and collectively (by listening/sharing/cooperating) that will make the difference.

#### « Change Management in Higher Education » round table

- Covid has been a true lab for pedagogical changes and has helped us to product and collect data & skills to better understand future changes.
- Students have not had many opportunities to socialize or get to know each other since the outbreak of the pandemic. The motivation of each and every student now needs to be addressed.
- In all Higher Education and Research institutions that have succeeded in the pedagogical transformation, a top-down policy has never worked.
- Higher Education should henceforth empower students, ensure top-down and bottom-up contributions. It is the whole student's journey that needs to be reinvented: more interactive, creative, collaborative (more peer to peer approach), also more autonomous and even puzzling.
- Students are and should even be more involved in the decision-making process since they haven't yet any preconceived ideas like the older generation and they are the first ones concerned by their learning experience which is increasingly adapting to today's world.
- Challenge is to find a compromise between face to face teaching & online teaching. There is a need to rethink the campus as such. More than ever, a campus needs to follow the digital trends on a social level to keep the link between students & professors to create a true community feeling.
- There is a real need to develop professors, students & staff skills
- Students are and should be even more involved in the decision-making process since they haven't yet any preconceived ideas like the older generation and they are the first ones concerned by their learning experience which is increasingly adapting to today's world.

#### « How do Technology & Artificial Intelligence affect Teaching, Learning and Assessment? » round table

- AI, blockchain and cloud are crucial to apprehend the turn of disruptive learning pathways
- Digital requires higher education institutions to internalize data and technological skills/
- Higher Education can now be seen as a platform with the cloud and Al
- Data collection by internal data scientists does certainly help the digital learning experience and also protect institutions to be cannibalized for example by Amazon or the other Gafa companies. We should be cautious about the partnership with the big Gafa companies in terms of security of personal data and performance/creativity of the educative institutions.
- Dramatic surge in the use of e-learning resources and databases
- Significant increase in R&D spending and capital investments in AI
- Al is being used: to help in needs analysis and student retention (avoid dropouts), to develop intelligent tutoring systems and to develop 'smart' curricula, as formative assessment to help students write by using corpus analysis tools to create models of 'ideal' essays and benchmark this against student production and to rate tutor feedback to ensure homogeneity in quality and appropriateness
- Two major uses of big data and AI are for adaptive learning and learning reinforcement: typically, adaptive learning can reduce training and learning times by 37% and learning reinforcement techniques can increase knowledge retention by 46% 3 months after course completion
- We mustn't think that AI will replace the teacher they are two different needs and styles of working with the learner

- AI can produce more homogenous, scalable, and measurable autonomous learning experiences
- Higher Education or training institutions should adopt AI by starting small (e.g. a single course) and growing from there
- Validity practices are important to demonstrate that AI is ethical and effective for diversity (e.g., minorities who are often not involved in the development of AI-based systems. This is highlighted in the use of avatars whereas the non-representation of ethnicities can be an impediment to learner engagement)
- Al has implications on new skills students of today need business skills but also very complex and hard to master technological skills. Good managers need technological skills and good engineers need business skills.

#### « Hyflex/comodal teaching » round table

- The sanitary crisis has accelerated this teaching format although this is not a new modality; it has been widely spread since the 2000s. Given the financial and internationalization constraints as well as the digital growth, this teaching modality will certainly develop even more.
- From the student's viewpoint, it offers flexibility: he can choose to attend classes either online or on site; the first studies show the students' high satisfaction as well as a success rate identical as that on site.
- From the teacher's viewpoint, it requires adaptation to the teaching mode: students need to be integrated both on site and at a distance so that they can benefit from an excellent experience. Teachers then have to prepare more in advance, put at disposal possible support materials, but also be more multitasking and engaged into their teaching.
- Three other conditions of success:
  - o This modality raises a legal issue: it is essential to obtain consent from all students to broadcast the class video.
  - o The technological conditions too: speed connection, camera positioning, quality screen sharing, easy interaction possibilities.
  - o The presence of a moderator (who can be a student) to make direct connection with the teacher (bring forward questions for example).



### INTERNATIONAL DIGITAL SYMPOSIUM 7

# DISRUPTIVE LEARNING PATHWAYS







NOTE TAKING : CYRIL MAITRE

WORLD CHAMPION

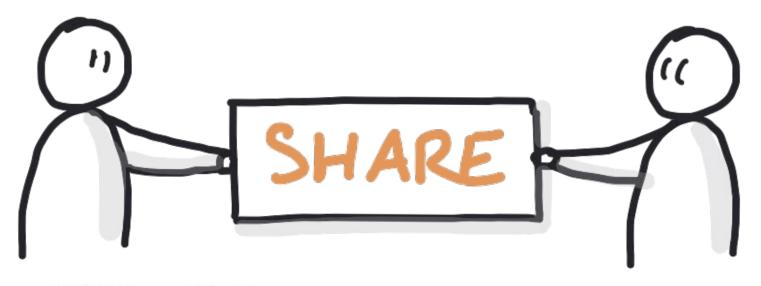


## INTRODUCTION

MATHIAS EMMERICH
PRESIDENT INSEEC U.



- ▶ 100LS
- CONTENTS
- ENVIRONMENT
- ► MANAGEMENT



OUR TEACHING PRACTICES











NOT ONLY LEARNING SOCIAL TOO

### SMART AND GREEN CAMPUSES



PR. TOM HOLMGAARD BORSEN
AALBORG UNIVERSHET DENMARK
PR



PR MARTIN O'CONNOR PARIS SACLAY FRANCE



DR ALBERT MERINO
EPFL SWHZERLAND



DR DARREN REIDY UNIVERSITY OF CORK IRELAND

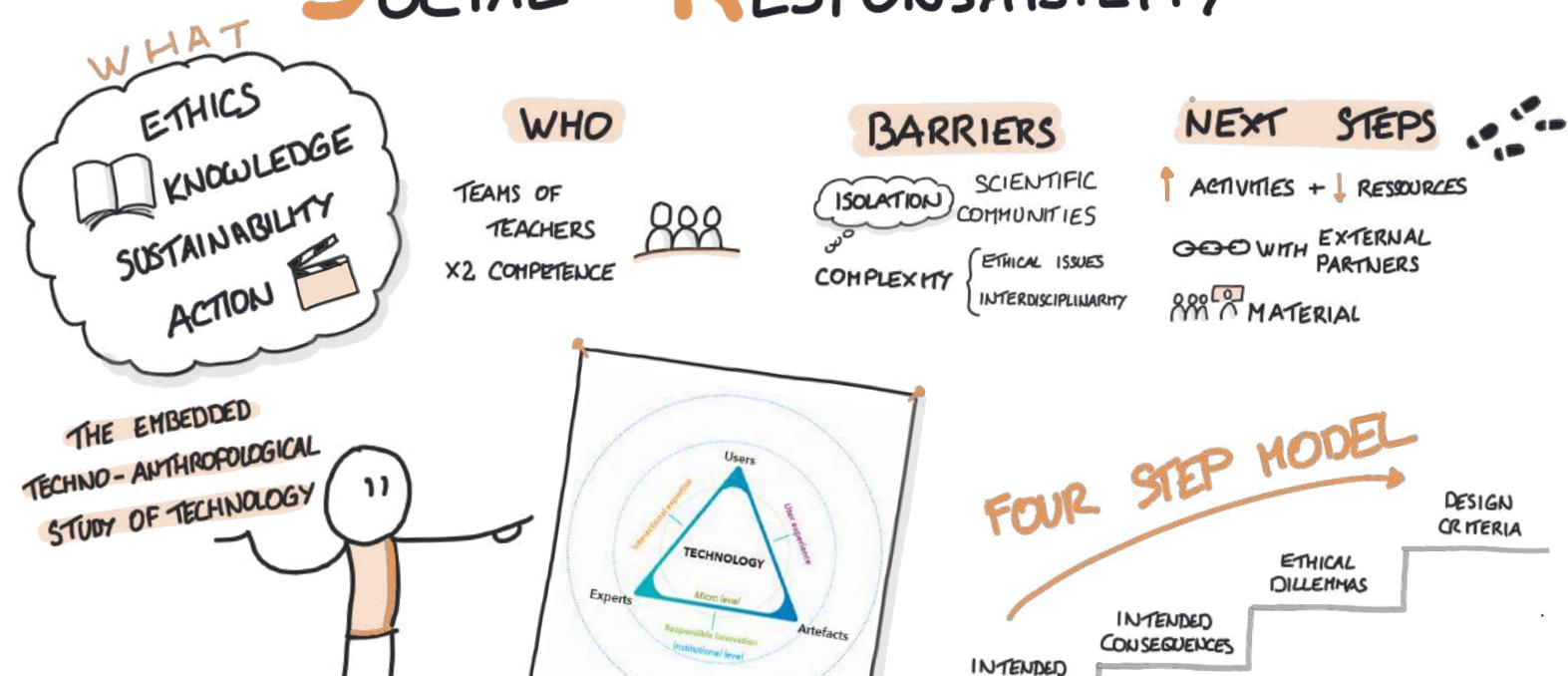


DR HOCINE SADOK UHA MULHOUSE FRANCE

AALBORG UNIVERSHET DENMARK

### PR. TOM HOLMGAARD BØRSEN TECHNO - ANTHROPOLOGICAL PERSPECTIVE

SOCIAL RESPONSABILITY



NOTE TAKING BY CYRIL MAMRE

BENEFICIAL

### THE CO-PRODUCTION UNDER PAN(DEM)IC CONDITIONS

PR MARTIN O'CONNOR PARIS SACLAY FRANCE

OF A BLENDED

LEARNING STRATEGY



HIGH PEDAGOGIC QUALITY

TRANSFORMING DISRUPTION

LEARNING OPPORTUNITY





#### THEORY AND REALITY



TO BE DONE?

- AUTO-EVALUATION
- **DOCUMENTATION**
- LEARNING RESSOURCE



**WP-7** Evaluation

P-9 Documentation

MANY TOOLS

GOOD PRACTISE

OF THE TOOLS





#### VP-1 Pilotage Blended Learning Environment

WP-2 Blended Learning Space WP-5 Conviviality & Community WP-8 Quality, Integrity, Safety

> Issues & Outcomes: Synthesis and Overview

Strategy (Tools, Methods & Contents), Production & Dissemination

#### BOTTOM-UP:

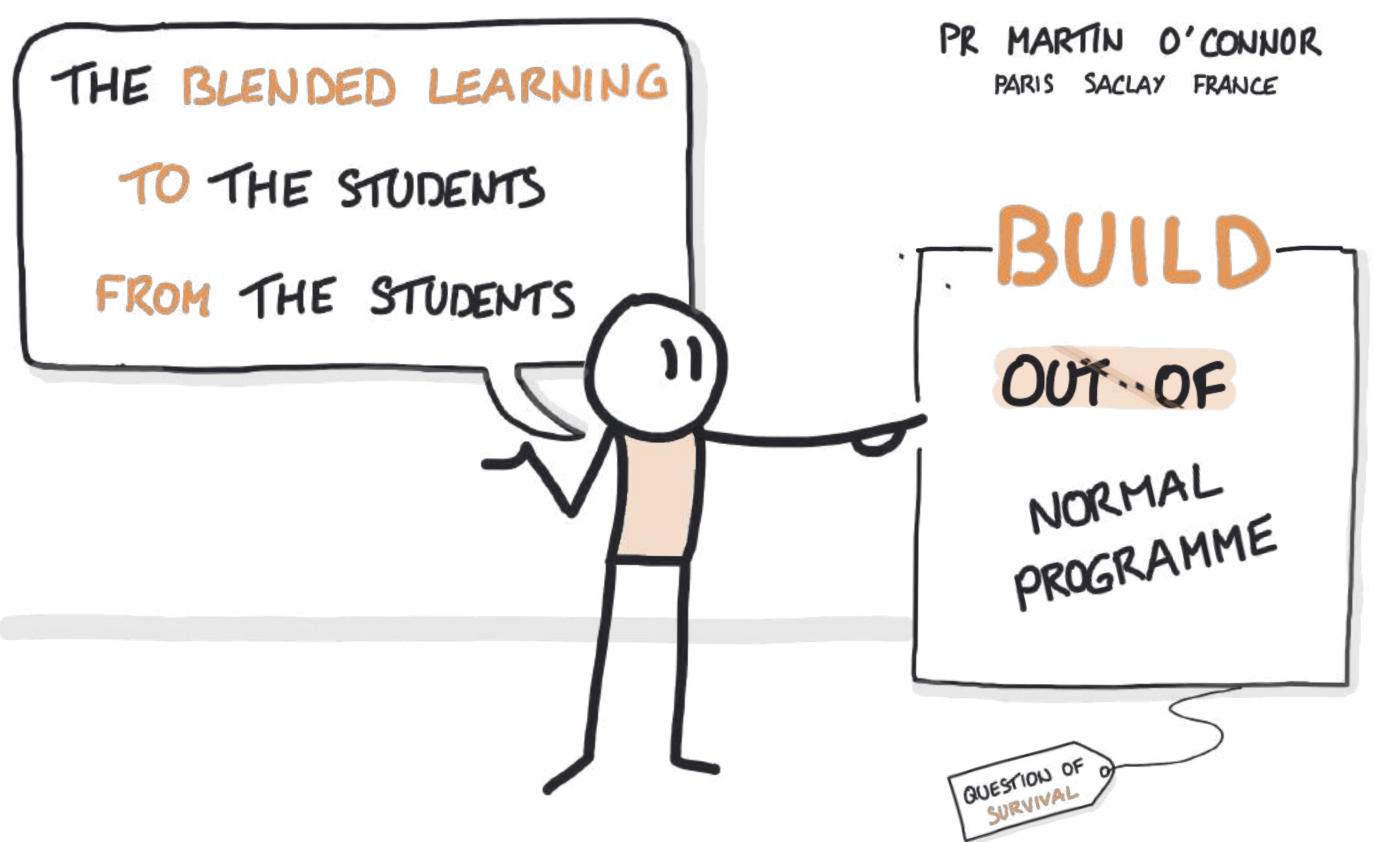
Co-production of Collaborative Learning

WP-3 Teaching Resources WP-4 Collaborative Learning WP-6 Student Assessment

> Issues & Outcomes: Synthesis and Overview

Appropriation of Tools & Methods

### BLENDED LEARNING STRATEGY



NOTE TAKING BY CYRIL MAMRE

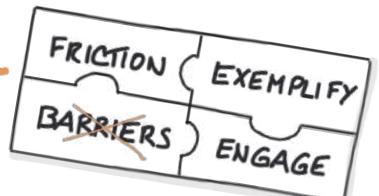
### A JOURNEY TO SUSTAINABILITY





REPRESENT ALL STATUS







LEADING BY THE EXAMPLE





EMPOWERED.











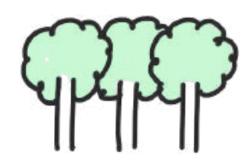
NOTE TAKING BY CYRIL MAMRE

### TEACHING SUSTAINABILITY DILEMMAS



### THE VALUES OF SUSTAINABLE DEVELOPMENT

VALUES - RESPONSABILITY





HOCINE SADOK UHA MULHOUSE FRANCE

ENVIRONMENT + BIODIVERSHY + SOCIAL COHESION





COMMON PRACTICES



► WASTE SORTING ₩







ENERGY SAVING 7/7/



## QUESTIONS - ANSWERS





NO SIMPLE DEFINITION OF THE SOLUTION





WHAT HATTER?

POSSIBLE ACTIONS?



EXPERIMENT

MANAGE THE PROBLEM



TO FIND





HOW TO TEACH TO GO FORWARD





#### CONFERENCE

INTERACTIVE

#### PR. FRANÇOIS TADDEI

FRANCE

CHALLENGE RESEARCH INSTITUTE

### HELP LEARNERS FACING THEIR CHALLENGES

REDESIGN CURRICULUM A DA PTATION INNOVATION

INTELLIGENCE







ONLINE TOOLS



PROJECTS
COLLECT+ SHARE

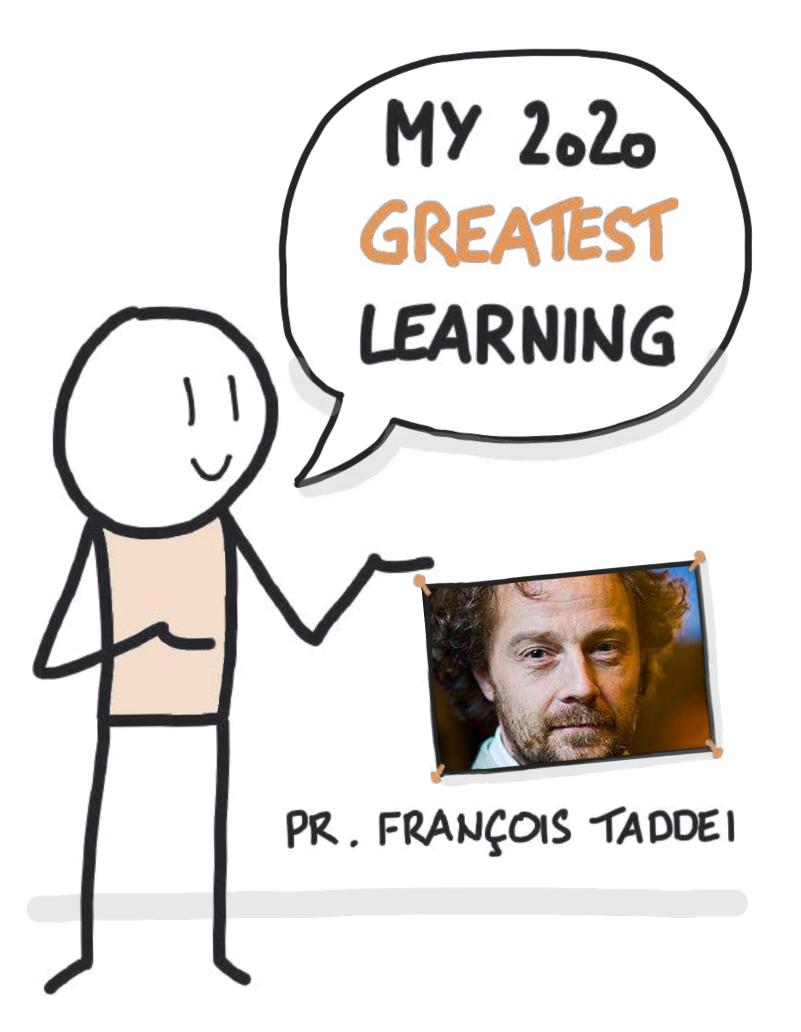


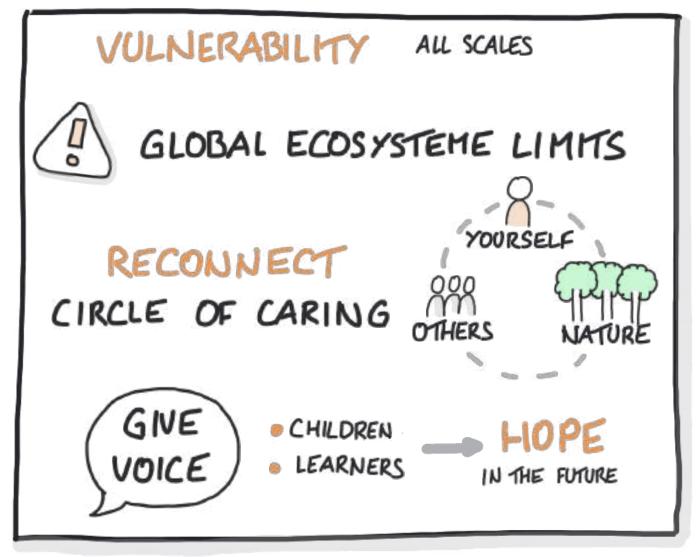
# HOW TO STUDENT MOTIVATION

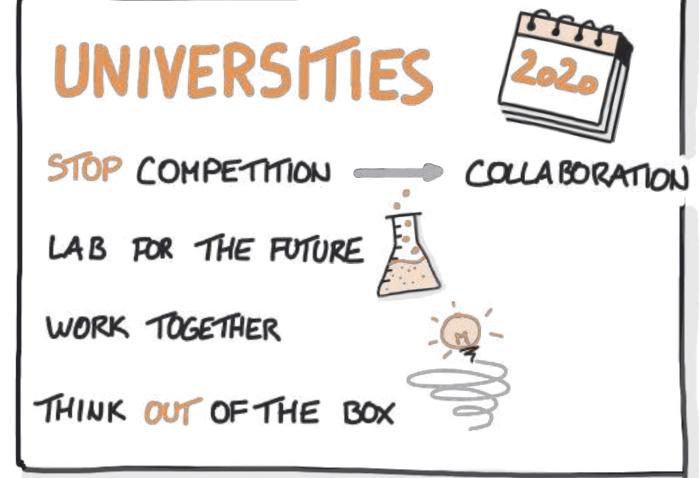
- PURPOSEFUL LEARNING
  - · CREATIVITY
- · COLLECTIVE ACTIVITIES
  - · SOCIAL IMPACT

- GLOBAL CHALLENGES
- DIMENSIONS









### CHANGE MANAGEMENT IN HIGHER EDUCATION



DR. KYUNGMEE LEE LANCASTER UNIVERSITY UK



BENOTT BRETON SUP. DE PUB. FRANCE



DR DELPHINE LE SERRE HEC MONTREAL

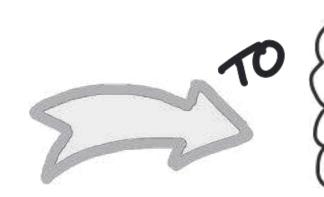


GÉRALDINE HATCHUEL CHOREGRAPHY EXP. DESIGN FRANCE

### ONLINE EDUCATION

DR. KYUNGMEE LEE LANCASTER UNIVERSITY UK





TEACHING INNOVATIONS









INCOMPETENT UNSUPPORTED

SHARED PROBLEM

RESSOURCES

▶ JUST-IN-TIME LEARNING

TRIAL -AND-ERROR

AUTONOMY

SUPPORTED

ONLINE

KNOWLEDGE |



REWARDS X



FREEDOM (



15 YEARS







ALL DONE

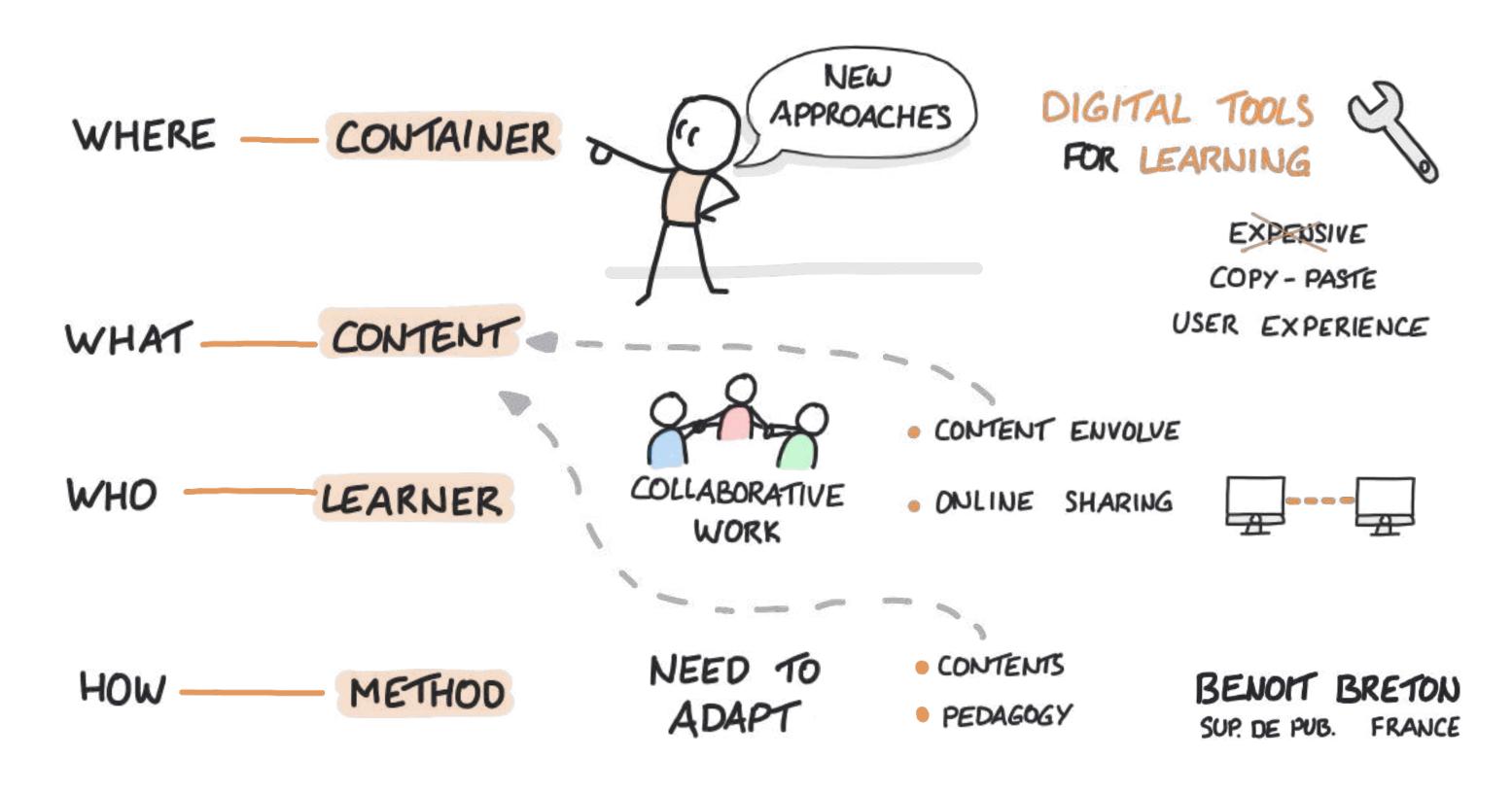




IMPOSED CHANGEMENT

NOTE TAKING BY CYRIL MAMRE

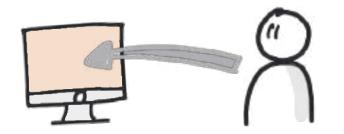
# NEW WORLD OF EDUCATION



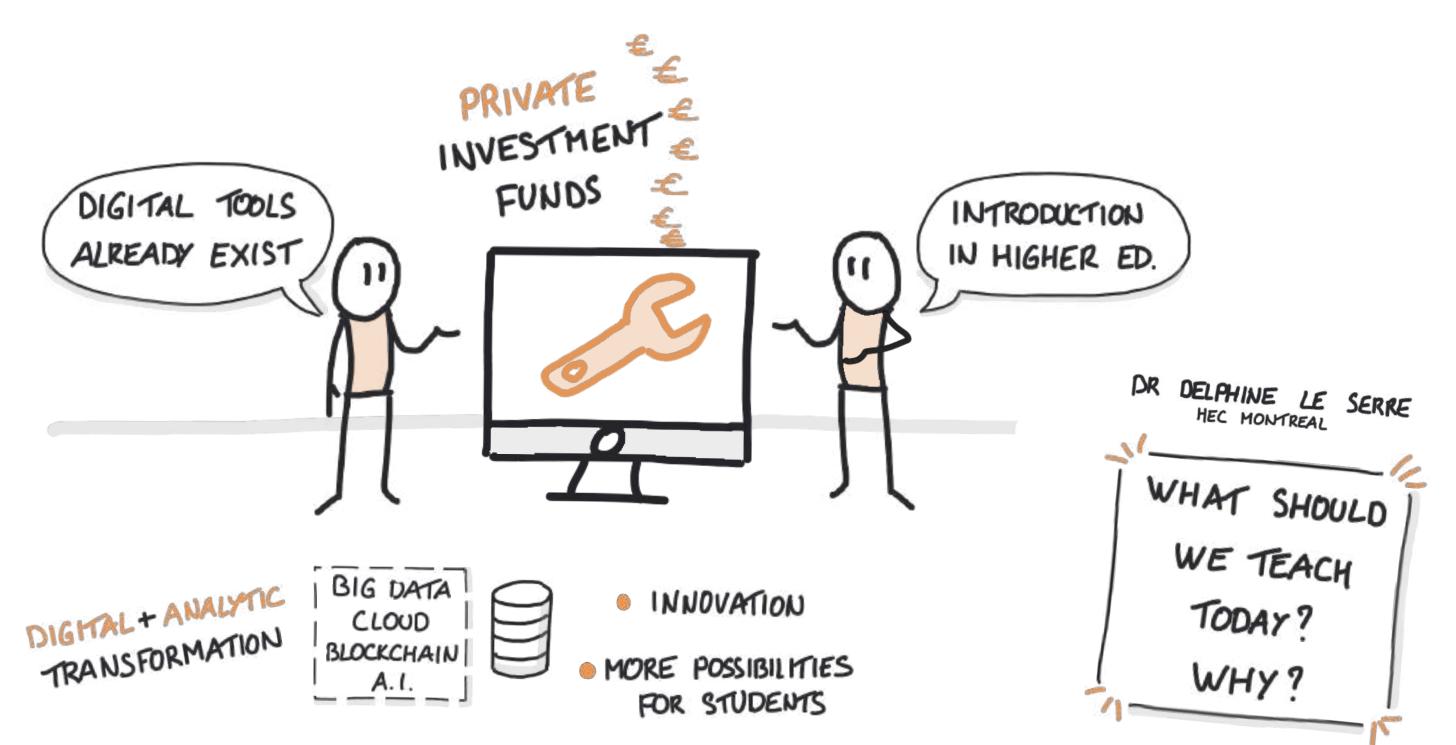
#### IS THERE A REAL CHANGE MANAGEMENT



GLOBAL ACCELERATION
IN THE
DIGITAL TRANSFORMATION

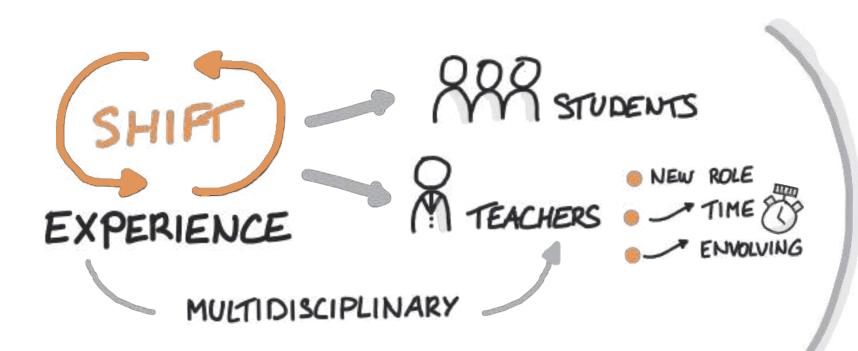


STUDENT



### EXPERIENCE DESIGN FOR WEB

GÉRALDINE HATCHUEL CHOREGRAPHY EXP. DESIGN FRANCE













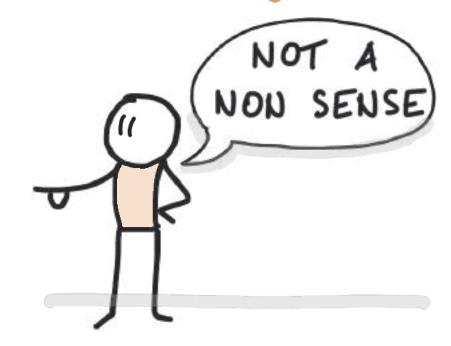
- TEST NEW FORMATS
- JUDGEMENT
- GET INSPIRED
- DARE TO USE YOUR BODY



# QUESTIONS - ANSWERS

INVESTOR FUNDS





BENEFITS OF NEW TECH

STUDENT ---- STUDENT

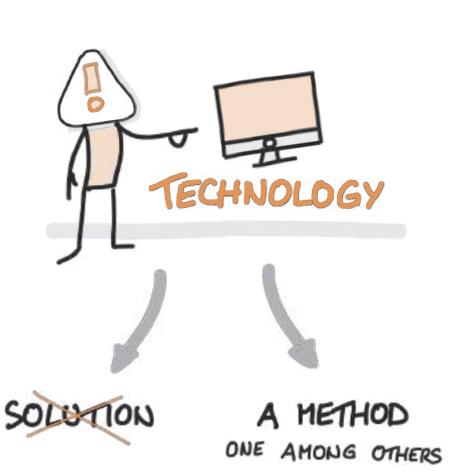
CONNECT

TEACHER ---- STUDENT

MORE CREATIVITY WAYS

TRANSFORM KNOWLEDGE
TO THE FUTURE





HOW DO

TECHNOLOGY AND AI





DR. NABIL EL KHADI



BRIAN MADDOX UNIVERSITY OF EAST ANGLIA - UK



- LEARNING
- ASSESSMENT II



FRANÇOIS STEPHAN INSÉEC U. PARIS



BENOIT PRALY
DOMOSCIO PARIS



PR DENISE WHITELOCK OPEN UNIVERSITY UK

### TECH AND A.I. IN HIGHER EDUCATION

DR. NABIL EL KHADI



EVERYWHERE

IN

EDUCATION



AI TUTORING ASSISTANT

THE POPULATION

CURRICULUM DESIGN



EXPERIENCE



IN KUWAIT







#### ARTIFICIAL INTELLIGENCE

PR DENISE WHITELOCK OPEN UNIVERSITY UK

#### AND ASSESSMENT

#### ASSESSMENT HELPS LEARNING







SYSTEM | AUTOMATED | FEEDBACK |

SHORT ESSAY ANSWERS

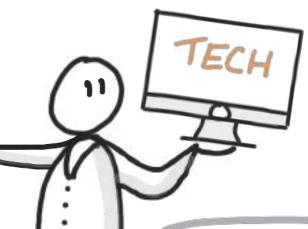


### LEARN WITH A.I.



BENOIT PRALY





EMPOWER

EXISTING LEARNING ENVIRONMENT

BEFORE

ADAPTATIVE

RECOMMANDATION

AFTER

LEARNING

REINFORCEMENT

SPACE

REPETMON

OPPORTUNITY

SYSTEM

HOW TO

- · STUDENT AUTONOMY
- HOMOGENITY
- · REPLACE TEACHER



EMPOWERING





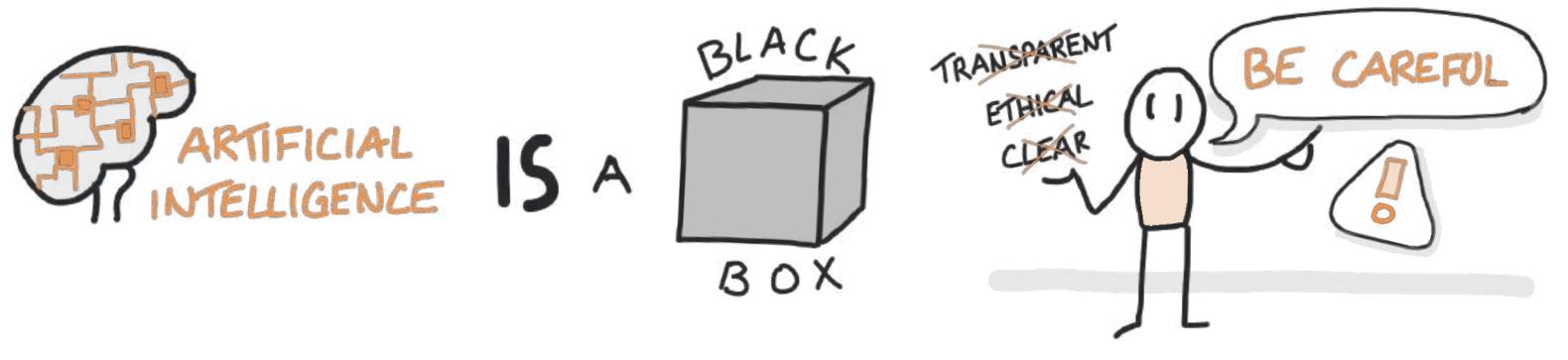
LEARNING RESSOURCES

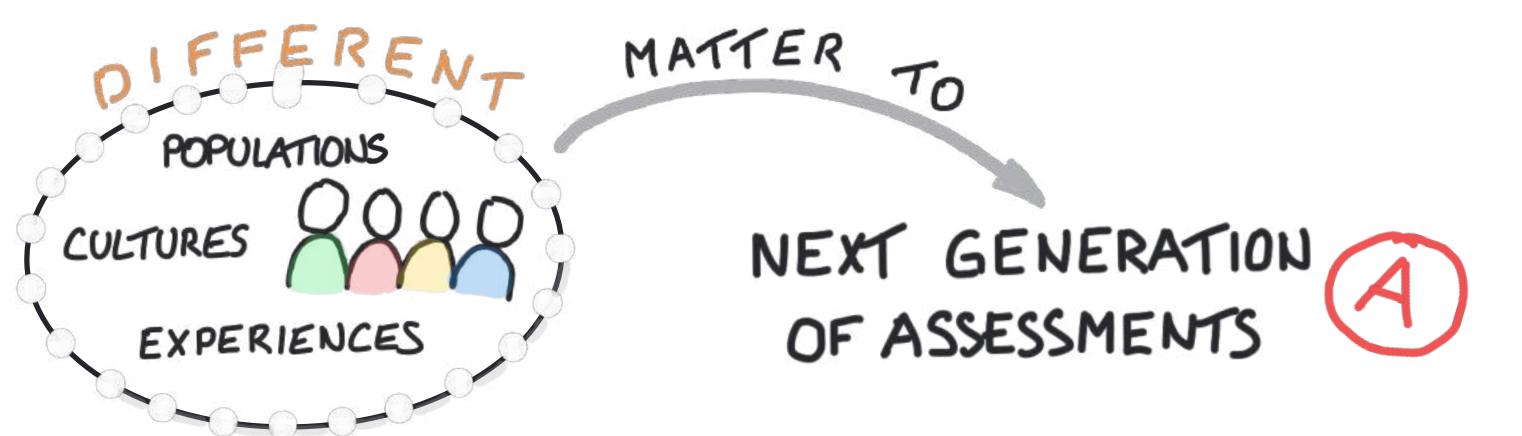
- TRANSPARENT
- EXPLAINABLE
- · ETHICAL

NOTE TAKING BY CYRIL MAMRE

#### DISRUPTIVE TECHNOLOGY AND ASSESSMENT

BRIAN MADDOX UNIVERSITY OF EAST ANGLIA - UK





### HIGHER EDUCATION AS A PLATEFORM

FRANÇOIS STEPHAN INSEEC U. PARIS





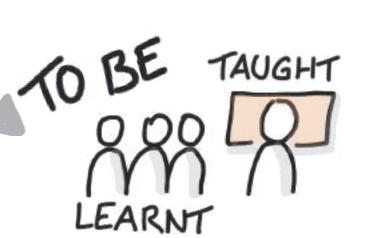
DEEP



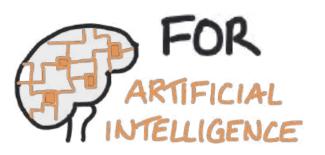
NEW SKILLS



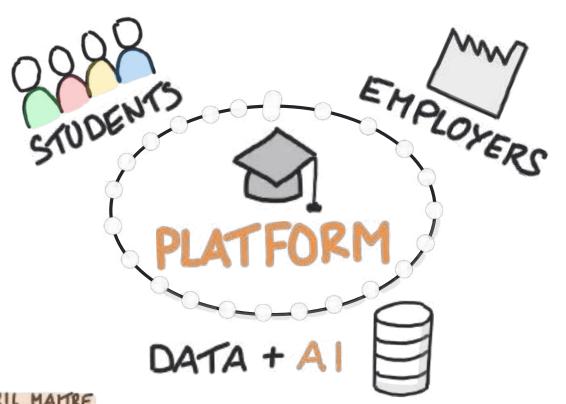








- LEARN HOW TO LEARN TO USE A!
- CREATIVITY AS ADDED VALUE
- **UNDERSTAND**
- DESIGN + DEVELOP



## QUESTIONS - ANSWERS

#### MAJOR CHALLENGES

DIGITAL TRANSFORMATION OF THE UNIVERSITIES

TEACHERS

NEW SKILLS

THINK DIFFERENT



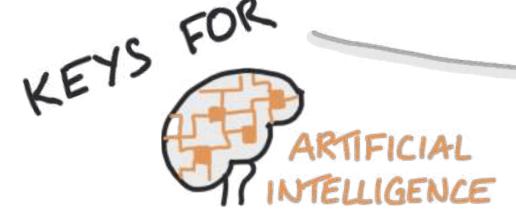
GOOD DATA / META DATA

SMART USE OF TECH

STUDENT TARGETS



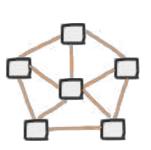




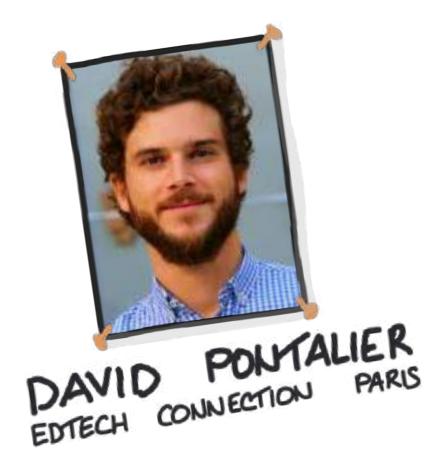
ASSESSMENT

WHAT IS BEHIND THE CREATIVITY OF THE TEACHER

THINK OF THE PROGRAM SHARE DATA BETWEEN UNIVERSITIES



### COMMODAL/HYFLEX TEACHING





PR. THIERRY EUDE UNIVERSITY LAVAL CANADA



DUCAN PEBERDY LEARN ANYWHERE UK

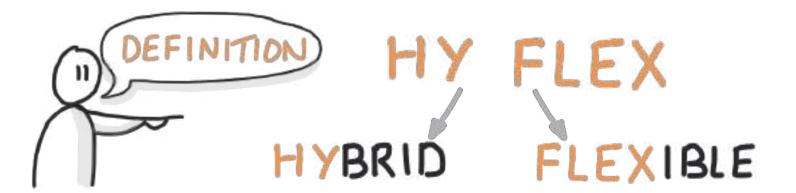


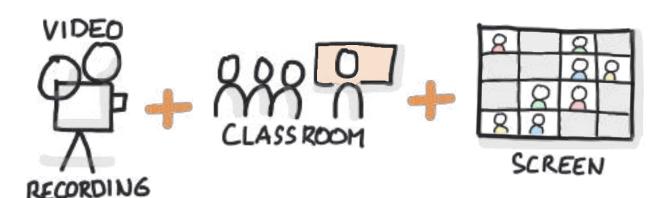
DR. IDA MIZRAIE
OHIO STATE UNIVERSITY

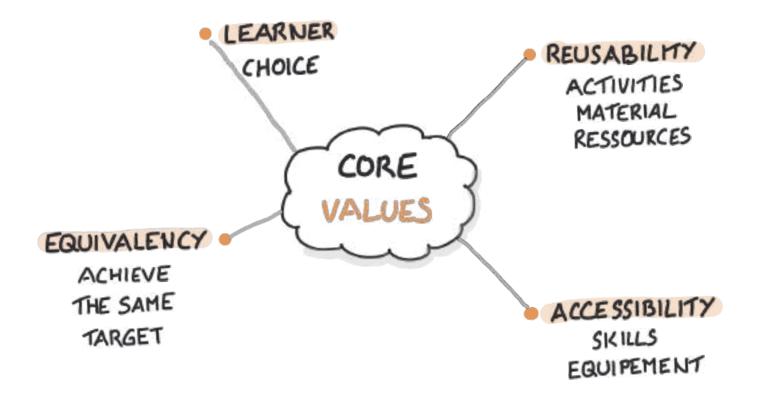
# HYFLEX TEACHING

#### TEMPORARY FIX OR FUTURE STANDARD

DAVID PONTALIER EDITECH CONNECTION PARIS







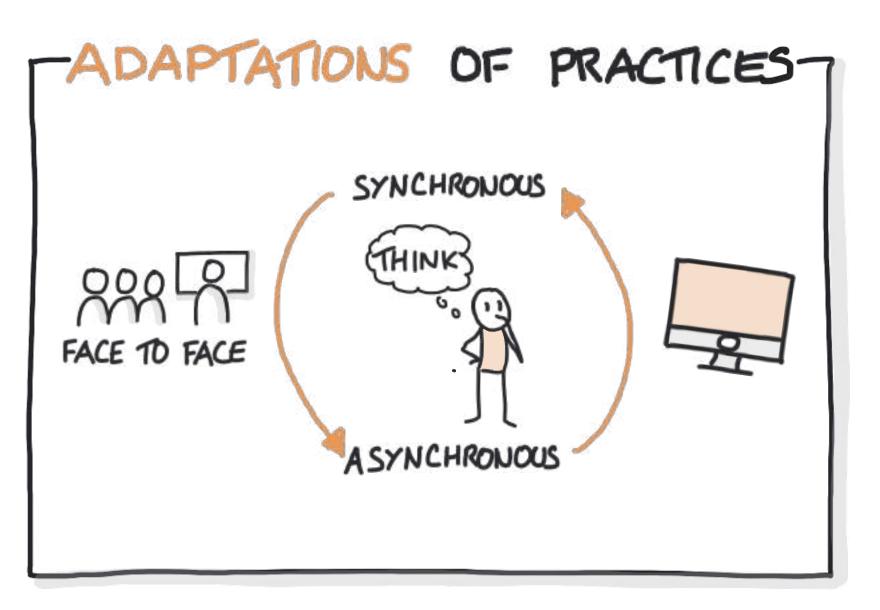
#### BENEFITS

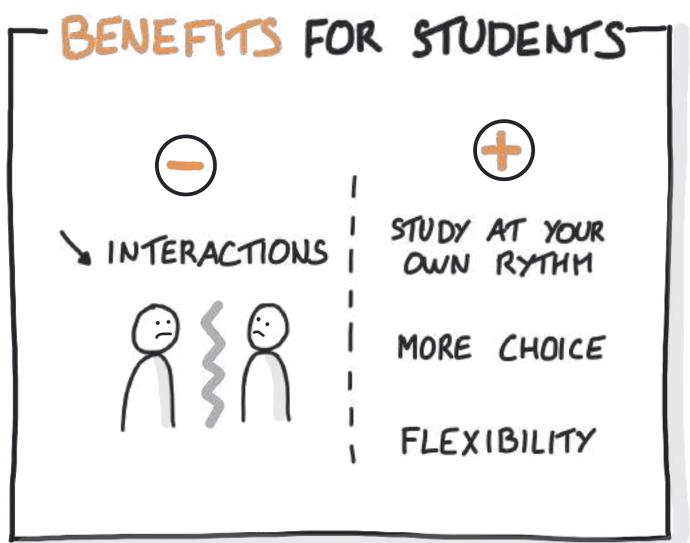


- SERVE MORE STUDENTS
- INCREASE STUDENTS
  SATISFACTION
- MAINTAIN ACTIVITIES

# COMMODAL TEACHING IN OUR COMPUTER SCIENCE DEPARTMENT

PR. THIERRY EUDE UNIVERSITY LAVAL CANADA





## LEARN FROM ANYWHERE



WE COULD USE TECH BEFORE COVID HYFLEX ARA

PEBERDY

LEARN ANYWHERE UK





OBLIGATION

MOTIVATION



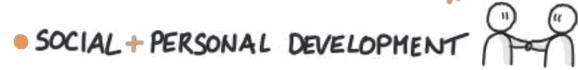
COST PRODUCTIVITY



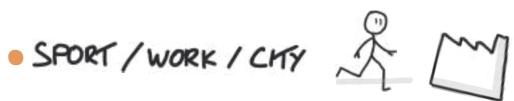
#### VALUES OF HIGHER EDUCATION













HYBRID CAMPUS











VISUAL LEARNING LAB

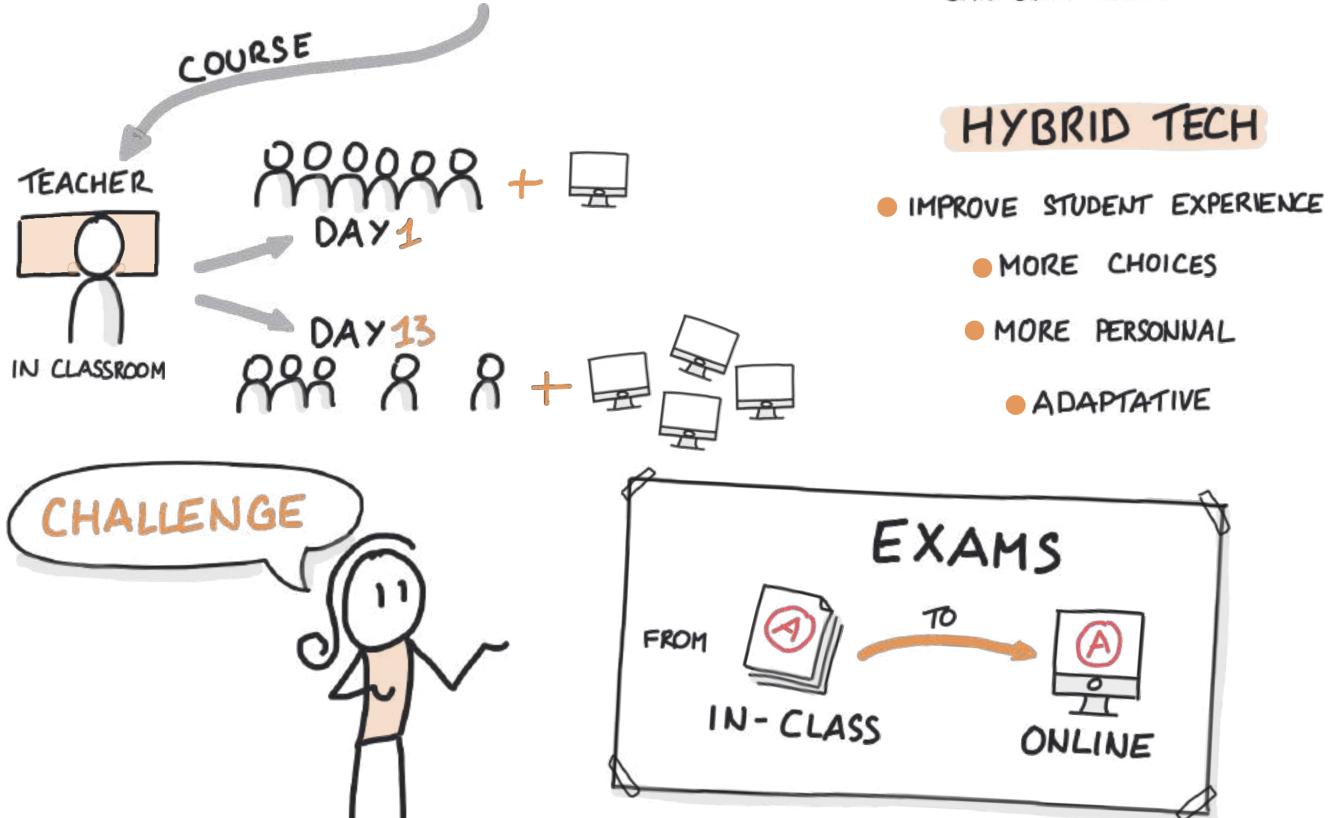


NOTE TAKING BY CYRIL MAMRE

# HYFLEX TEACHING

PRINCIPLE OF MICROECONOMICS

DR. IDA MIZRAIE
OHIO STATE UNIVERSITY



NOTE TAKING BY CYRIL MAMRE

## QUESTIONS - ANSWERS

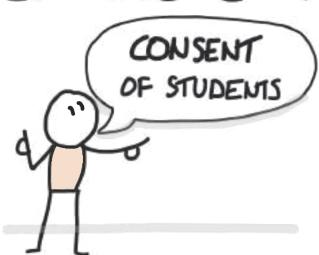
#### STUDENT SATISFACTION

- EXPECTATIONS
- ADJUSTEMENT
- SURVEY 7











ADJUSTEMENT IMPROVEMENT





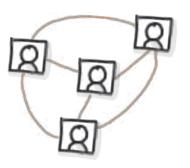
ALREADY EXISTS CONTINUES AFTER

MULTITASKING FOR TEACHERS



WORK WITH AUDIENCE

INTERACTIONS A



FINAL REMARKS

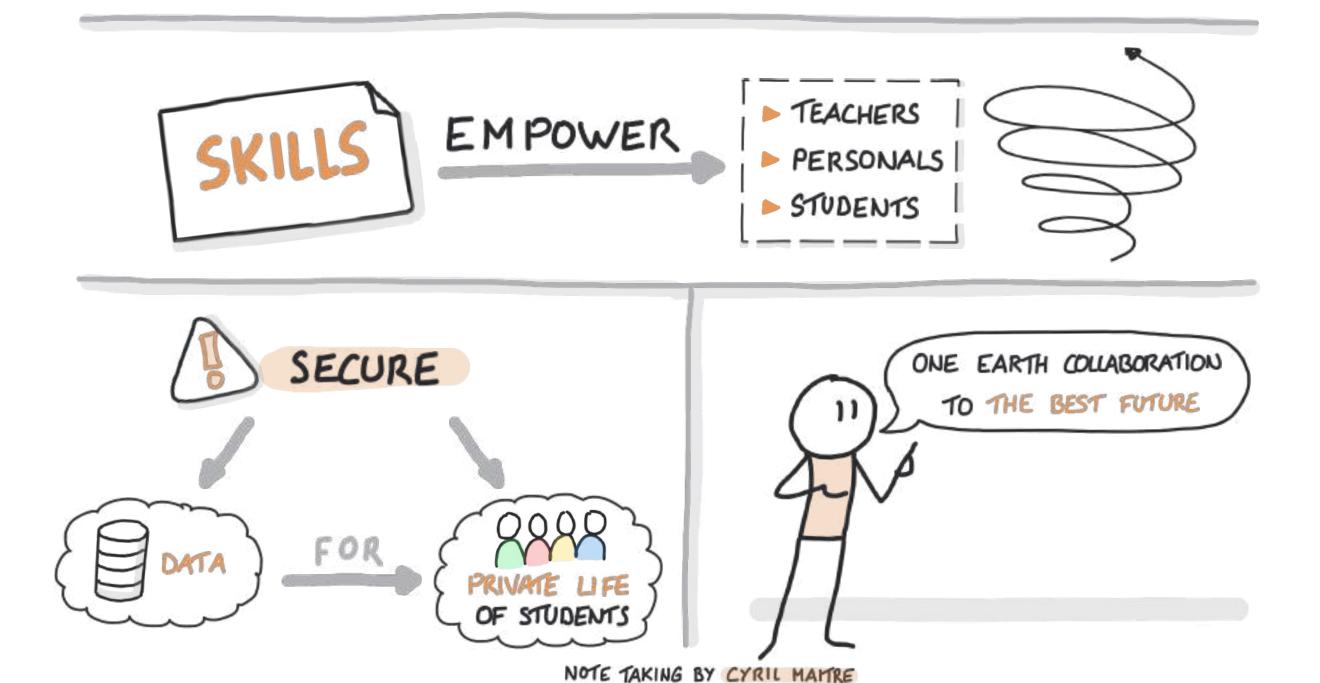
PR RIRI FITRI SARI UNIVERSITY OF INDONESIA GREEN METRIC

PR SYLVIE FAUCHEUX INSEEC U

COVID = CHALLENGE

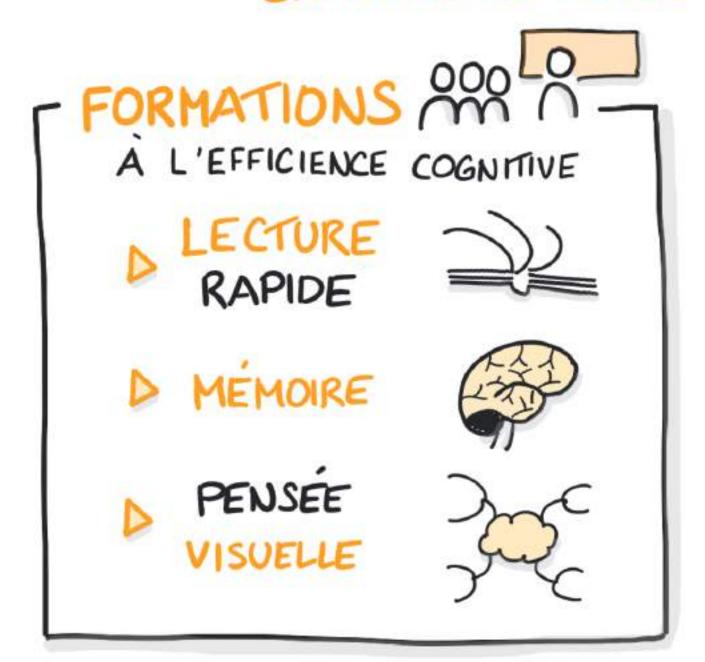


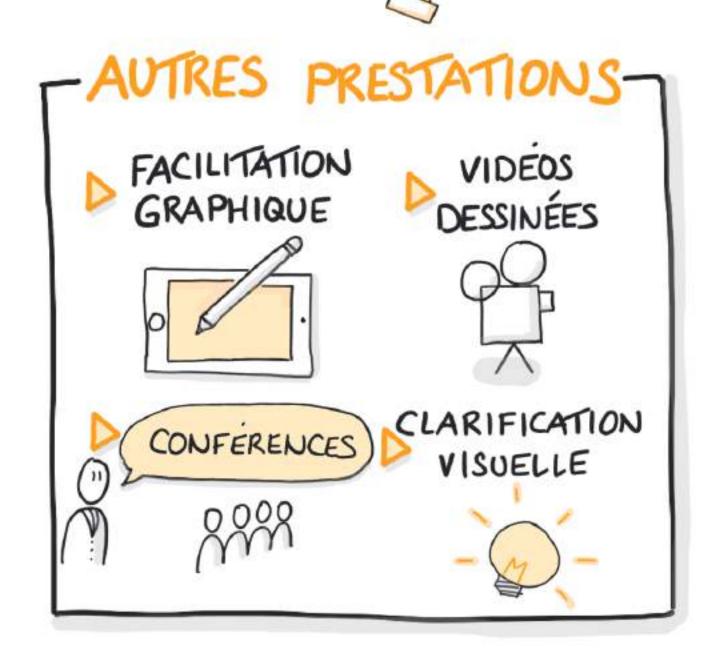
PEDAGOGY CHANGE



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