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Learning Transformation in Turbulent Times: The case for innovative pedagogies

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J. Haidt – The Righteous Mind (2012)

The mind is divided, like a rider on an elephant, and the rider's job is to serve the elephant. (p.XV)

If you want to change people's minds you have to talk to their elephants. (p.57)

Howard Margolis - *Patterns, thinking and cognition*

Two different kinds of cognition:

- *Seeing that* – intuitive thinking = intuition (the elephant)
- *Reasoning why* – conscious justification = reasoning (the rider)



What do we need when it comes to learning? Premises of leapfrogging

- **Flexibility and adaptability** = make connections, adapt methods creatively, solve unfamiliar problems
- **Deep understanding** = mastery of relevant knowledge, a process facilitated approach
- **A solid ethical, social and cultural foundation** = cope, even thrive with instability and turbulence

D.Istance, A.Paniagua (2019), p. 11



Beyond "tip of the iceberg"

- Immerse students in the flow of learning
- Moving outside the walls
- Makerspaces
- Service-based learning
- Computational thinking for problem solving
- Rotation model of blended learning
- Hybrid learning environments



Scaling is not Expanding!

Beyond idyosincratic and contextual

- Deep change
- Education networks & chains
- Empower the base, engage the middle [meso-level]
- If you negate a frame, you evoke a frame



Deep change

- ...”Goes beyond surface structures or procedures (such as changes in materials or classroom organization, or the addition of specific activities) to alter teachers’ beliefs, norms of social interaction and pedagogical principles as enacted in the curriculum”

(C.E. Coburn, *Rethinking Scale: Moving Beyond Numbers to Deep and Lasting Change*, p.3).

- Depth
- Sustainability
- Spread
- Shift
- Evolution

(Istance & Paniagua, 53-54)

Education networks and chains



The Meso Layer of change =

Networked chains of programs / degrees /
professionals / practices

engaged in

Creating innovative pedagogical ecosystem

and giving

Density of the network



Layers of innovating pedagogy

- **Micro Layer** (students, academics, universities) – experimentation
- **Meso Layer** (education networks & chains) – process change
- **Macro Layer** (policy, decision-making) – structural change



A framework to understand innovative pedagogies

Pedagogy is at the heart of teaching and learning



Example of Innovative pedagogies clusters (OECD, 2018)

- **Blended learning** - *Rethinking the purpose of the classroom and classroom time*
- **Gamification** - *Engagement through play and the pedagogies of games*
- **Computational thinking** - *Problem-solving approach through logic*
- **Experiential learning** - *Inquiry in a complex world*
- **Embodied learning** - *Capitalising on creativity and emotions*
- **Multiliteracies and discussion-based teaching** - *Fostering critical thinking and questioning*



Innovative pedagogies 2020 (Open University)

1 Artificial intelligence in education

2 Post-humanist perspective (human – technology interaction)

3 Learning through open data

4 Engaging with data ethics

5 Social justice pedagogy

6 Esports – learning through competitive virtual gaming

7 Learning from animations

8 Multisensory learning

9 Offline networked learning

10 Online laboratories

More than 50 examples of innovative pedagogies collected from the 8 CIVIS universities

- "Clustering" and developing a reference framework for innovative pedagogies in HE
- CIVIS Advanced Study Programme in Innovative Pedagogies
- Programs to stimulate pedagogical innovation and related research



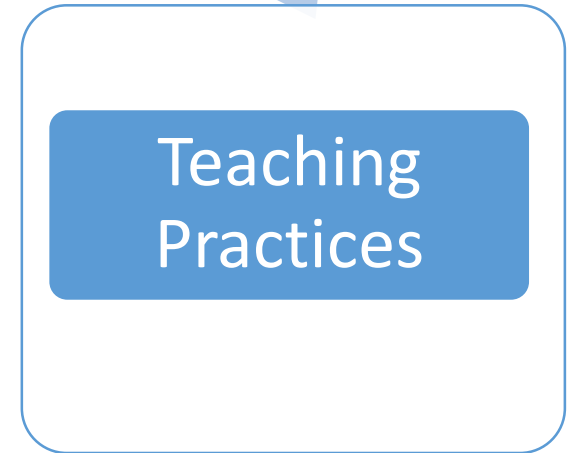
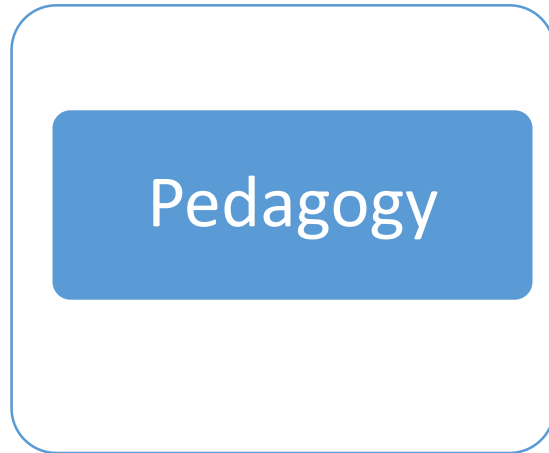
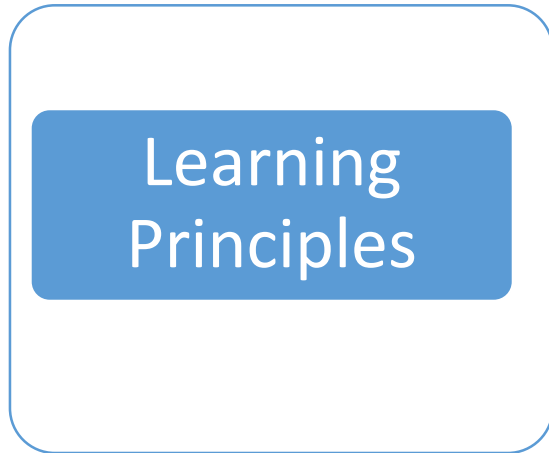
Clusters of pedagogical innovation

- **Technology-based pedagogical innovation: OER, blended courses, online labs, AI applications etc.**
- **Methodology-based pedagogical innovation** (flipped / reversed / parallel learning, universal design / design thinking, experiential design, game / play / gamification etc.)
- **Skill-based pedagogical innovation** (cognitive, non-cognitive, transversal, core professional)
- **Context-driven pedagogical innovation** (real world challenges, community / service learning)
- Others / mixed approaches

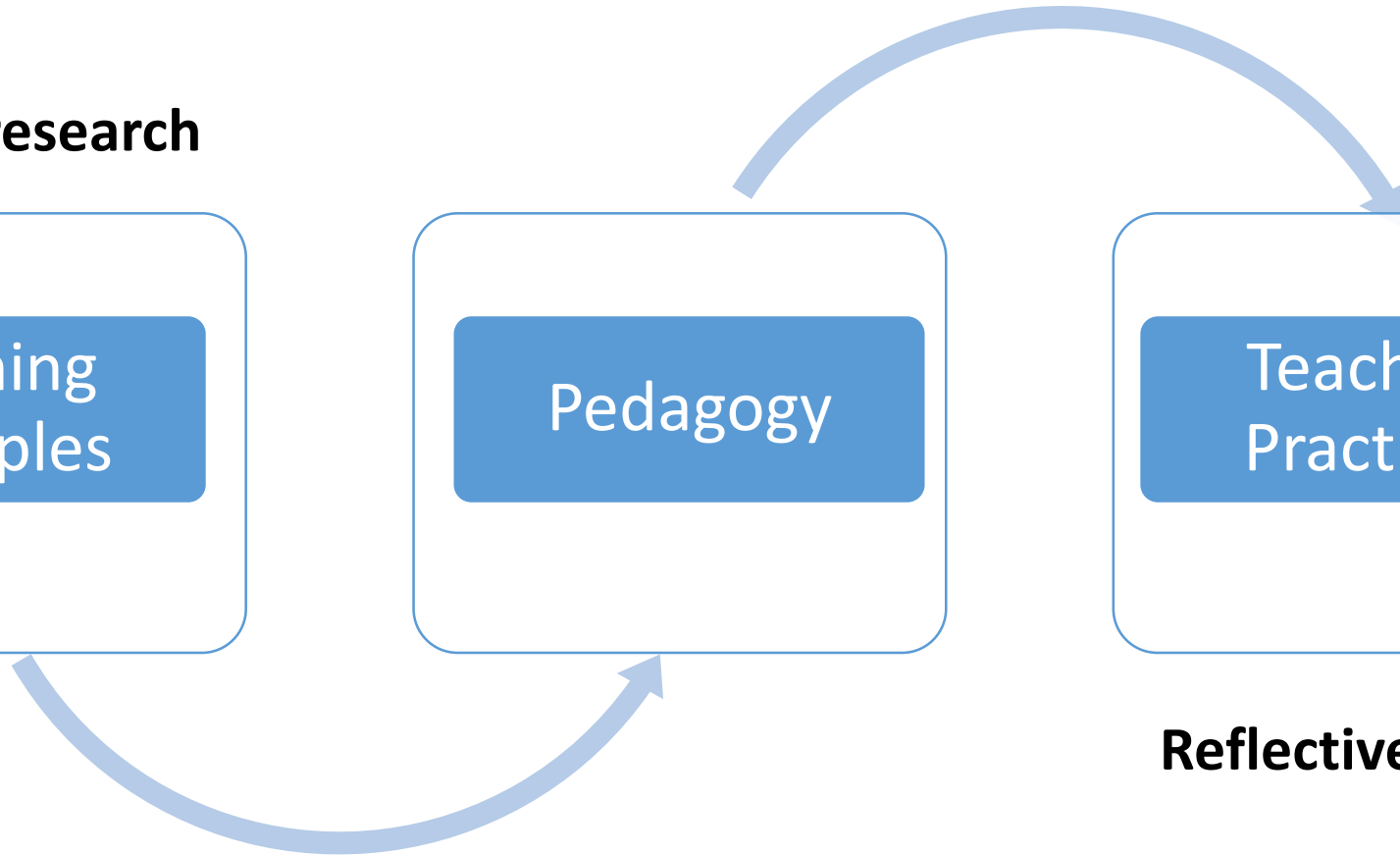


Bridging role of pedagogy

Learning research



Reflective practice



For the near future

- **Innovative Pedagogies. Ways Into the Process of Learning Transformation (handbook)**
- **CIVIS Advanced Study Programme in Innovative Pedagogies (training)**
- **A networked chain of pedagogical innovation centres / labs / communities in the broader CIVIS chain (and beyond)**

The CIVIS logo consists of the word "CIVIS" in a bold, black, sans-serif font. To its right is a stylized map of Europe with several colored dots (blue, red, yellow, green, dark blue) placed on it. Below the map, the text "A European Civic University" is written in a small, black, sans-serif font.

CIVIS A European Civic University



Thank you!

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Learning is the most powerful tool for innovation, but also for survival