ALT ANNUAL CONFERENCE 2019 3-5 September 2019, University of Edinburgh



Creating Education 4.0

for learning technologists.

Workshop

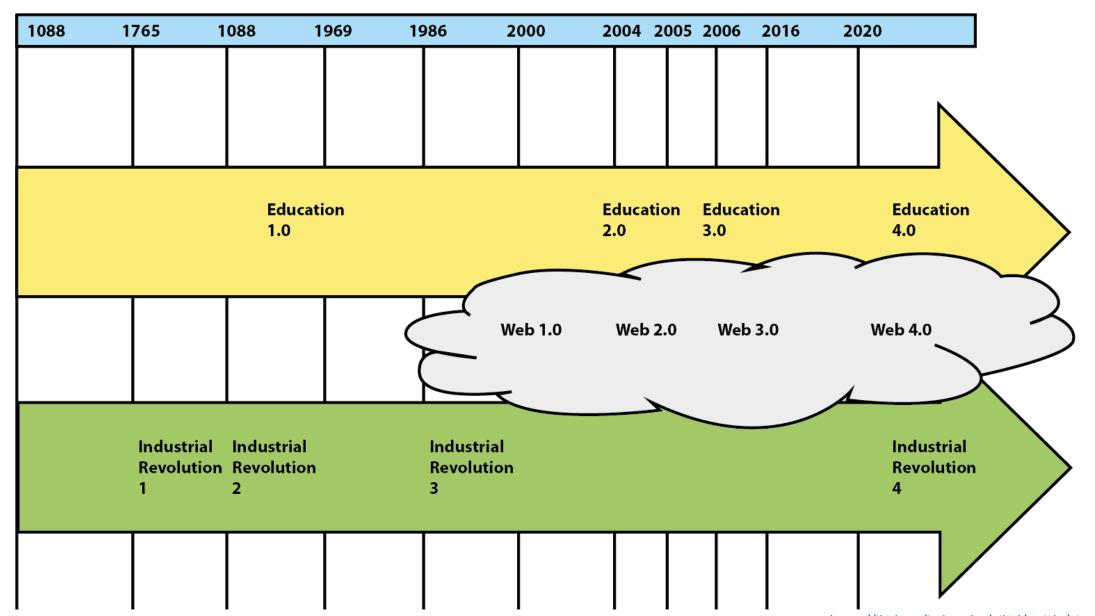
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John Brindle CMALT
Learning Technologist, University of Liverpool





Creating Education 4.0 Agenda

- 1. Brief explanations Industry 4.0, Technology 4.0, Education 4.0. Intervention & discussion- 10 mins
- 2. Starting from now- a systems framework for travelling over the horizon. Explanations 5 mins
- 3. Creating new maps of 4.0 education futures table groups workshopping 25 mins
- 4. Visual presentations of preferred & viable futures- table groups- 15 mins
- 5. Summary for 'take away'. 5 mins



https://jl4d.org/index.php/ejl4d/article/view/352

Creating Foresightpreferred and viable futures

- Foresight is considering the past, present and future
- Foresight leads from mapping alternative futures to shaping desired futures

Working with emerging futures

1. Upward connection

Connecting to inspiration, sparks of intuition and intent

2. Horizon connection

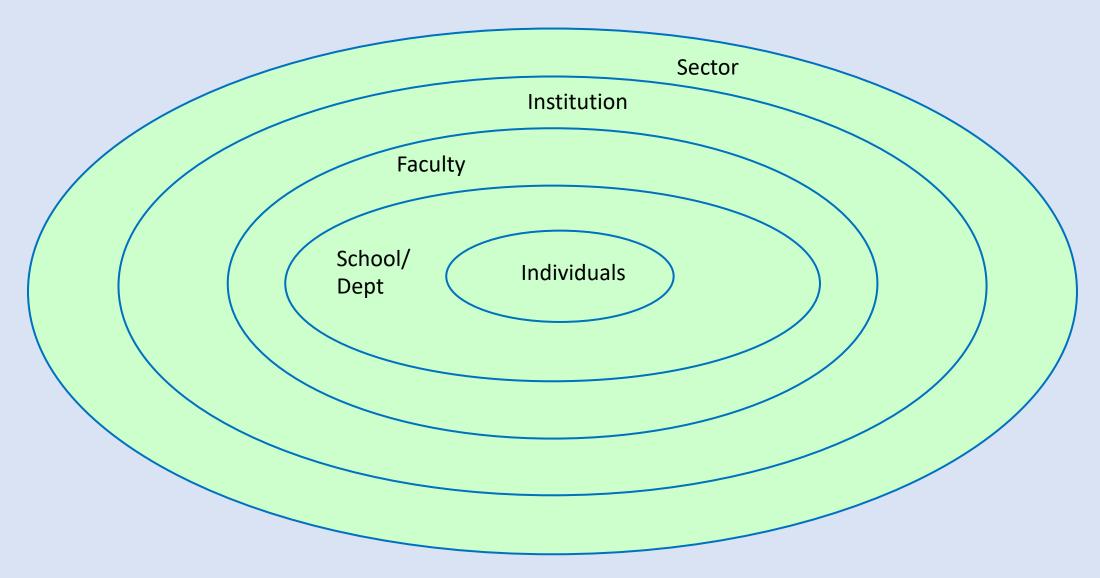
Listening to the feedback from the context

3. Downward or local connection

Engaging in and learning from locally embedded fast-cycle connections

From Scharmer 2009 p,213

Boundary Shifting



4.0- Technology, Industry, Global...Education

Proposition

Reshape the curriculum and the mode of learning from now to enable future students to make their best contribution to and benefit from the 4.0 world.

Checklist for viability.

- Shared purpose and passion
- Securing resource commitment

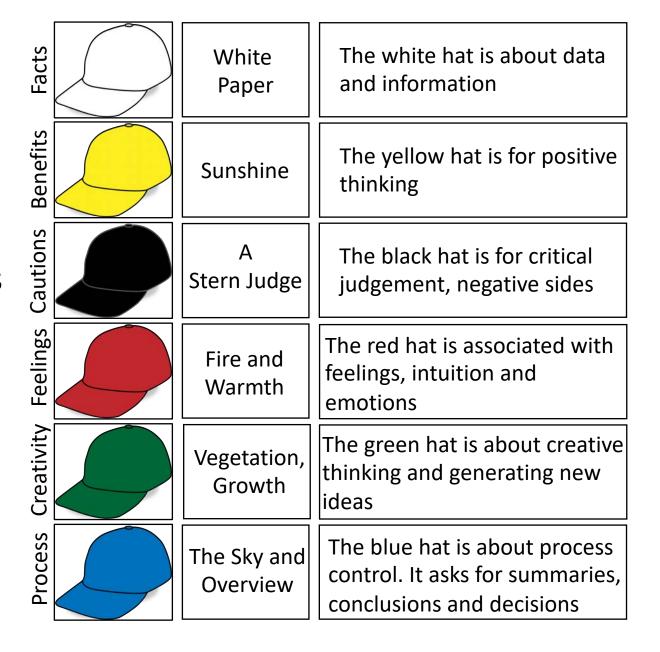
Exploring Education 4.0

- White- facts (known or needed)
- Yellow –value & benefits
- Black judgement & weaknesses
- Red feelings, hunches, intuition
- Green creating, generating possibilities

Blue - implementation

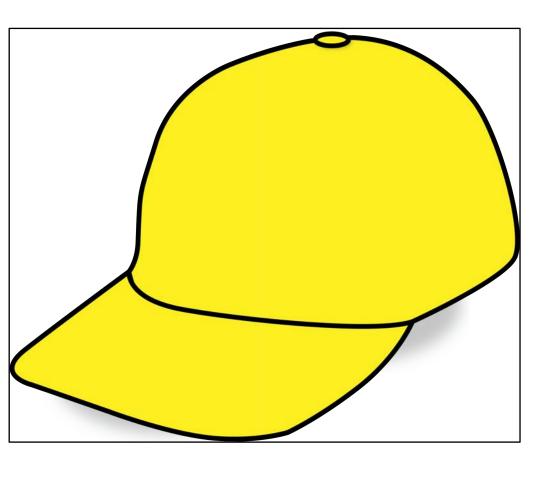
Acknowledgement-

http://www.debonogroup.com/six_thinking_hats.php



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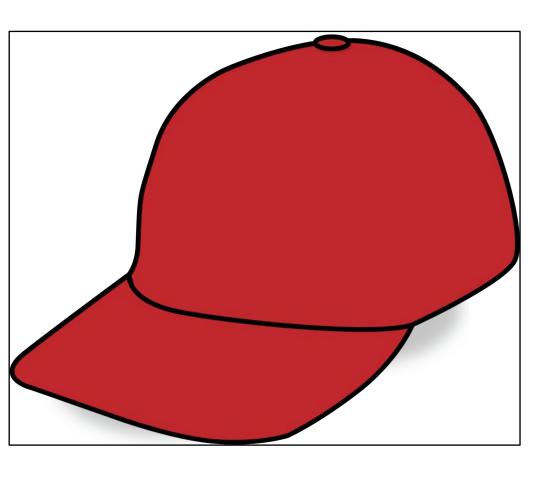
Benefits

The yellow hat is for positive thinking



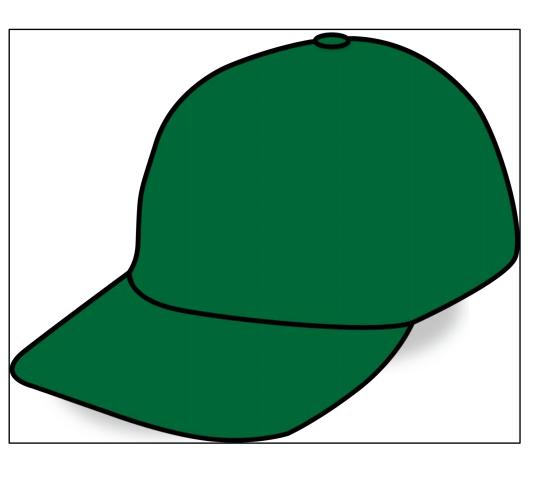
Cautions

The black hat is for critical judgement, negative sides



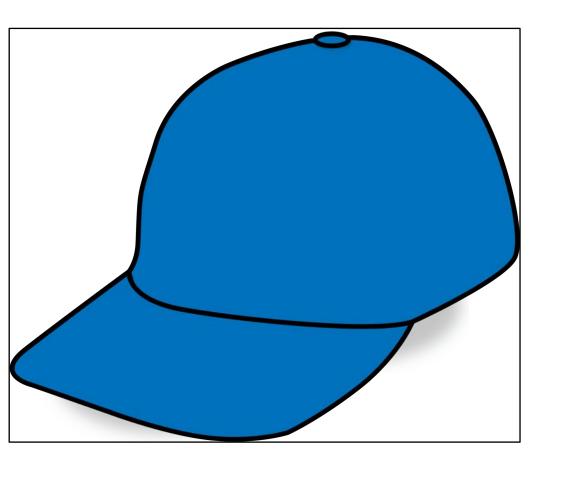
Feelings

The red hat is associated with feelings, intuition and emotions



Creativity

The green hat is about creative thinking and generating new ideas



Process

The blue hat is about process control. It asks for summaries, conclusions and decisions



https://padlet.com/brindlej/w1no5rskuuvw

References & follow up

https://jl4d.org/index.php/ejl4d/article/view/352

Salmon, G.(2019). May the Fourth Be with You: Creating Education 4.0. Journal of Learning for Development, 6(1), 95-115.

- https://learningforsustainability.net/systems-thinking/
- http://futuresfoundation.org.au/futures-education-rationale/
- https://en.wikipedia.org/wiki/Six Thinking Hats
- www.Gillysalmon.com

"Never doubt the power of a small group of people to change the world. Nothing else ever has".

Margaret Mead

Thanks for taking part

Gillysalmon.com/presentations

"Every society honours its live conformists and its dead troublemakers."

Mignon McLaughlin





The next Web- Web 4.0 – is the 'symbiotic web'. The symbiosis is between artificial and human intelligences and how they interact and gain experiences from each other. They become a team – learning from each other. Whilst over quite a few years computers, have been undertaking ever more complex tasks and fast, Artificial Intelligence (AI) represents technological applications now becoming competent in aspects that we previously thought only human brains could undertake. It is this development (which was preceded by and builds upon Web 1, 2 and 3) that takes Web 4.0 into the unknown, and points to an awakening of Education 4.0.

We need to mirror symbiosis- the best of technology with the best of human teaching. We know that in education that major changes take a very long time. Many discussions around Industry and Education 4.0 are couched around the technologies themselves. There's a paradox here – that the most valuable skills of all in the future will those that are intrinsically blatantly human- creativity, critical thinking, responsive communication and out and out human collaboration. Therein lie our clues

Extract from 'May the Fourth Be With You'. G. Salmon