

Assoc. Prof. Bundit Thipakorn Senior Vice President for Academic Affairs King Mongkut's University of Technology Thonburi APEC-Tsukuba International Conference XIV for the Digital Economy February 11-12, 2020

MANIT



DRIVERS CHANGE APING our



intangible dynamic transient discontinuity



shifts in Workforce Skills



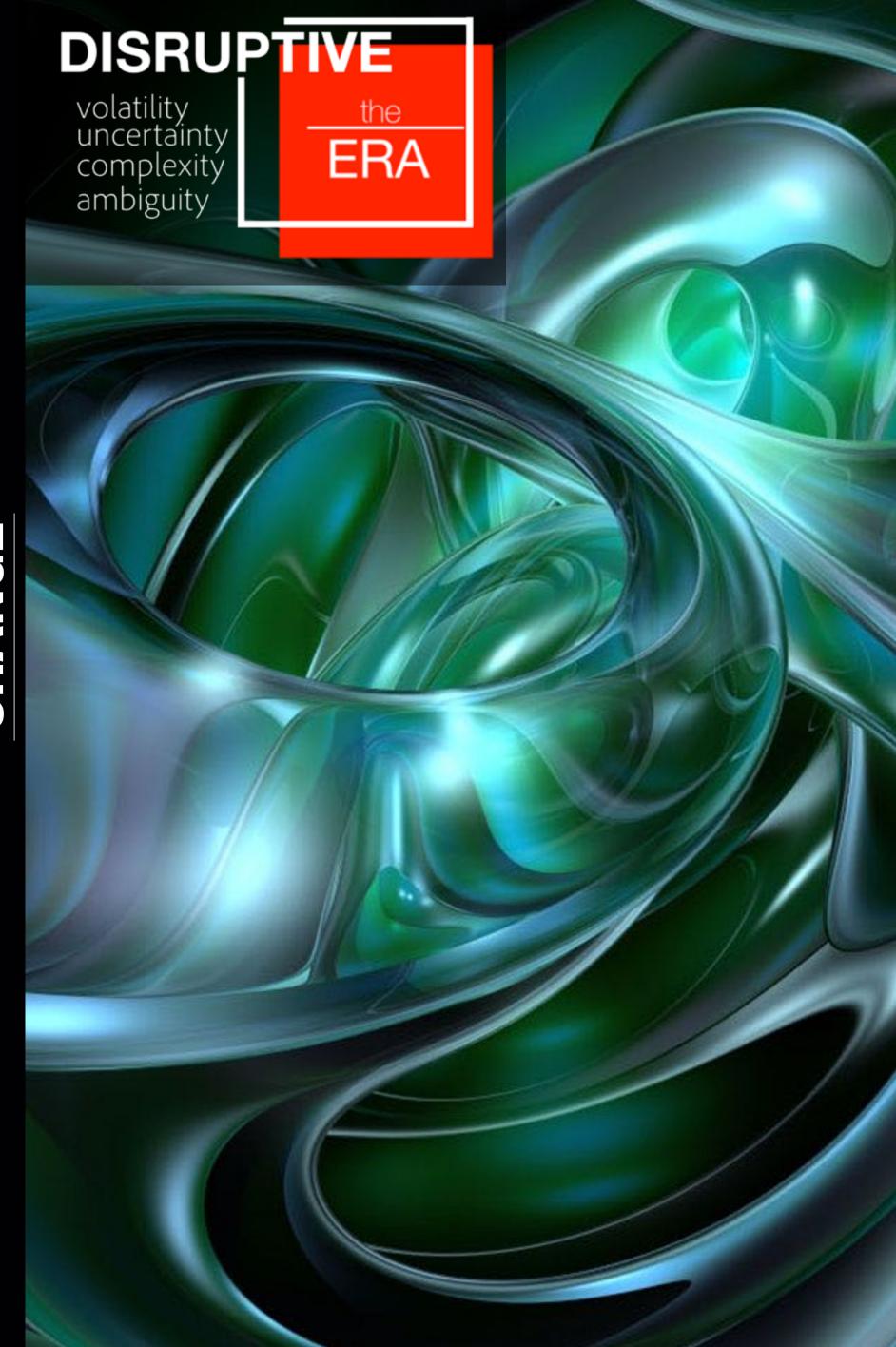
JUCATION

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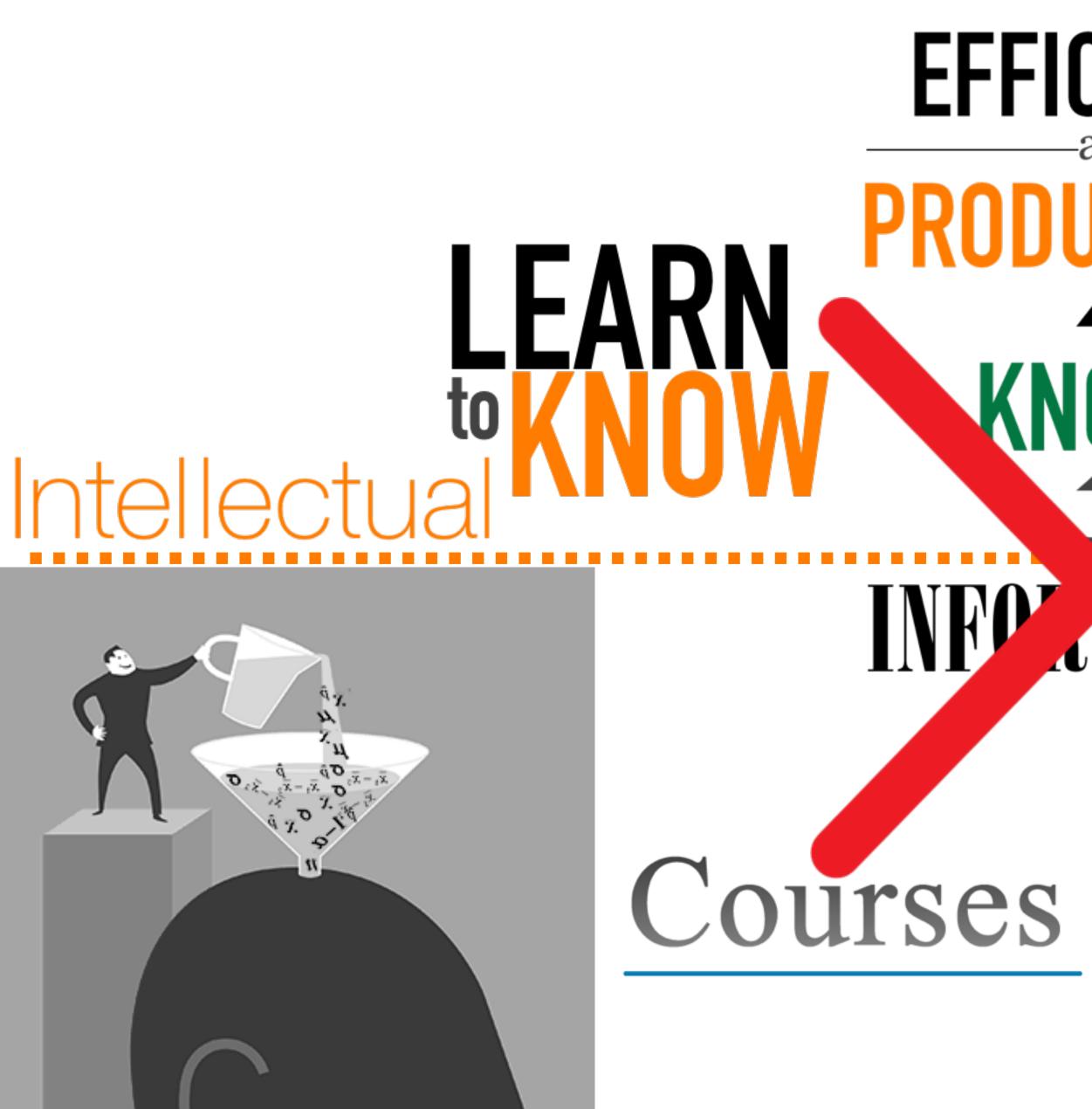




rate of **CHANGE**

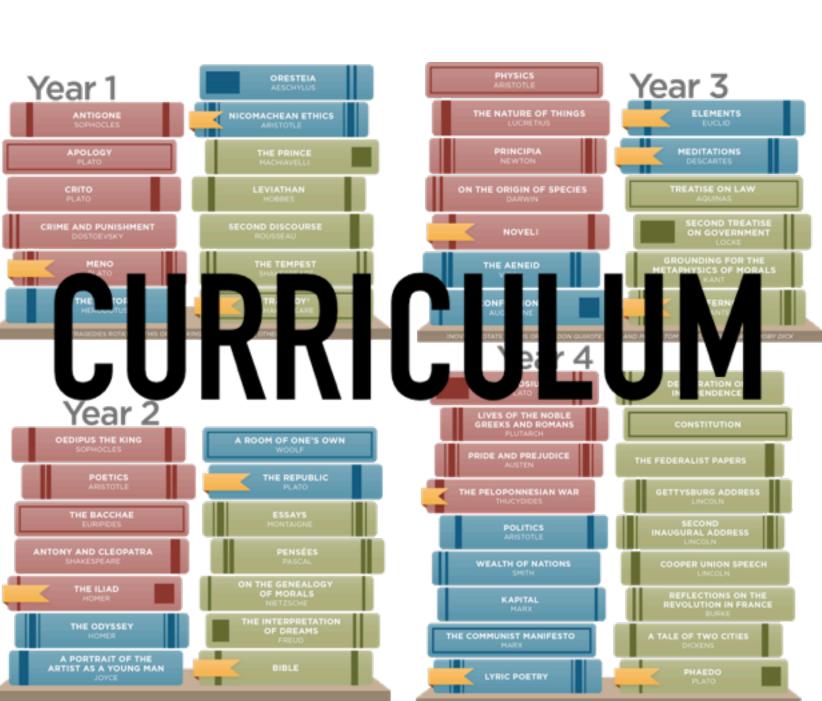






EFFICIENCY -and-**MATION**

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A STRUCTURE OF KNOWLEDGE to WORK for LINNG after graduating from university ...

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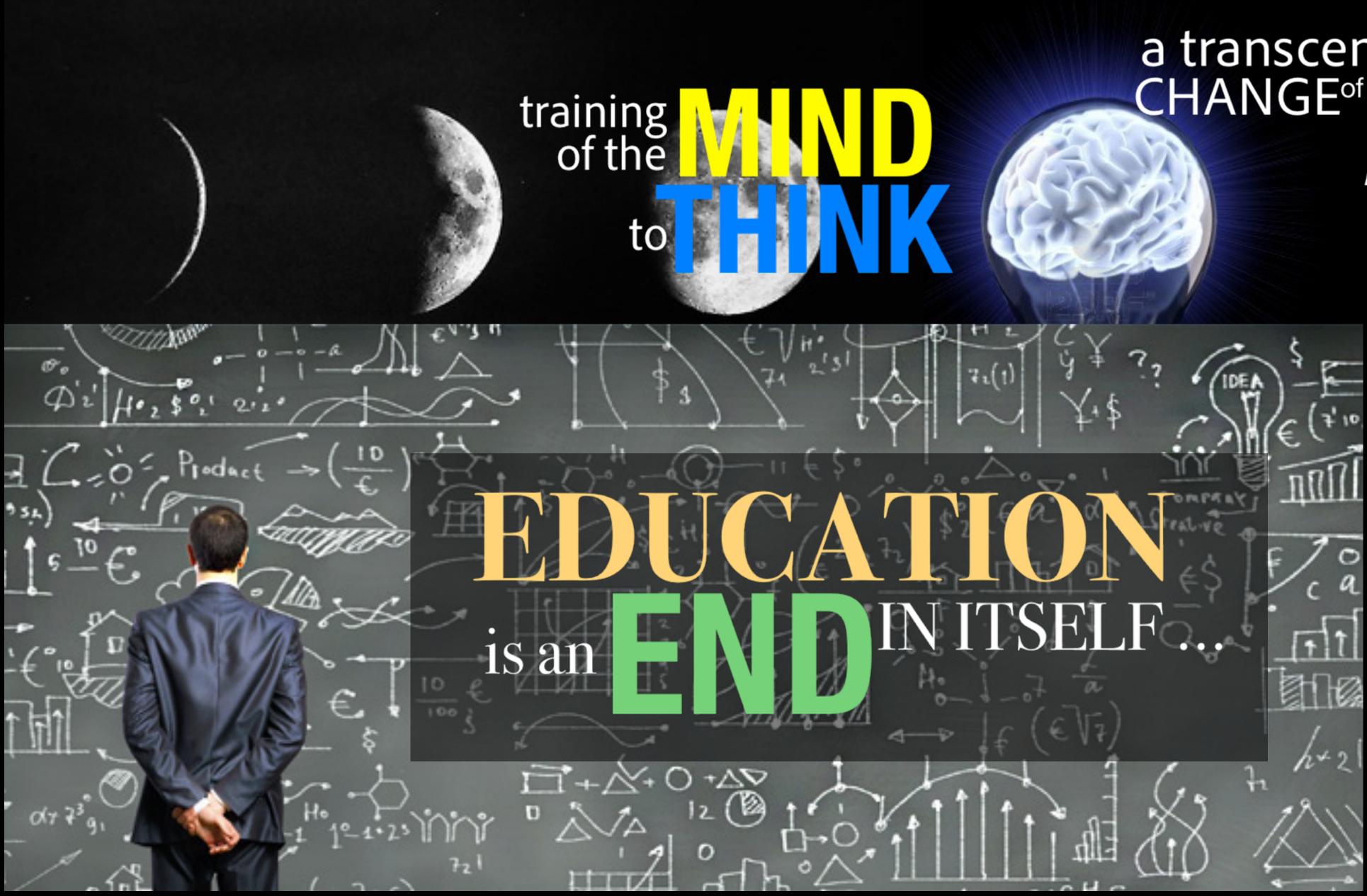


SHIFT

DISRUPTIVE the ERA









a transcendental CHANGE^{of} MIND and/or ATTITUDE



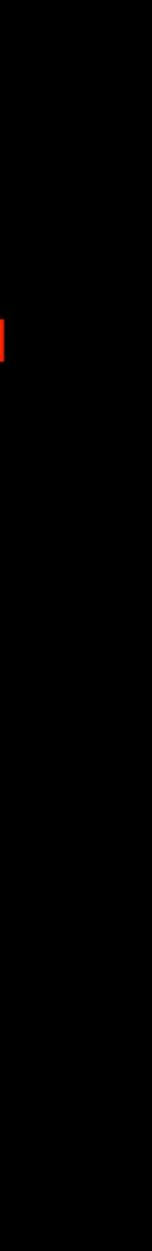






COMPUTATIONAL THINKING and HUMANITY for LUCAL the 4th Industrial Revolution

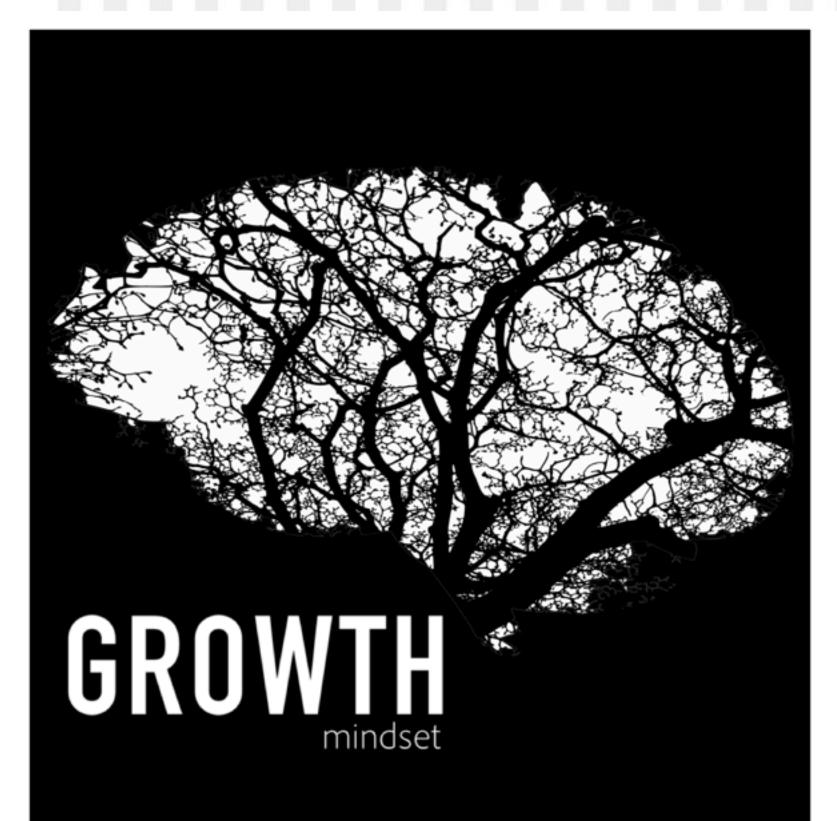
BAB of MND





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TRANSFORMING WI, KDÂR



INFORMATION

LEARNcharacter UNKŇOWN INNOVATIVE -and-GROWTH



A STRUCTURE OF **EXAMPLE VIEW OF THE OF** to SUCCESSFULLY THRIVE 21st in the world in flux ...







It is about WHA students with WFA they KNOW



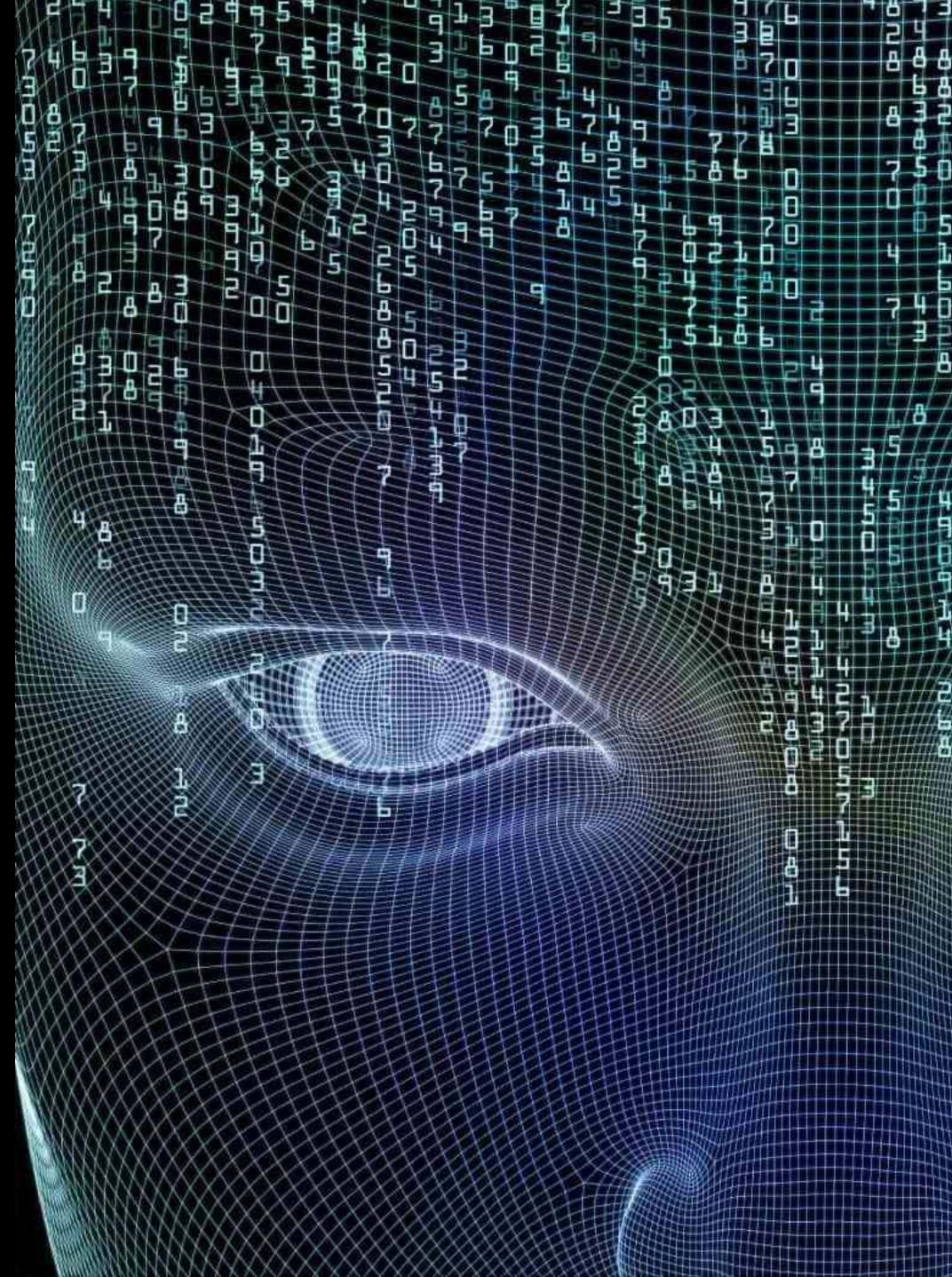


FOCUSING ON not











CLARAGE TER Not the

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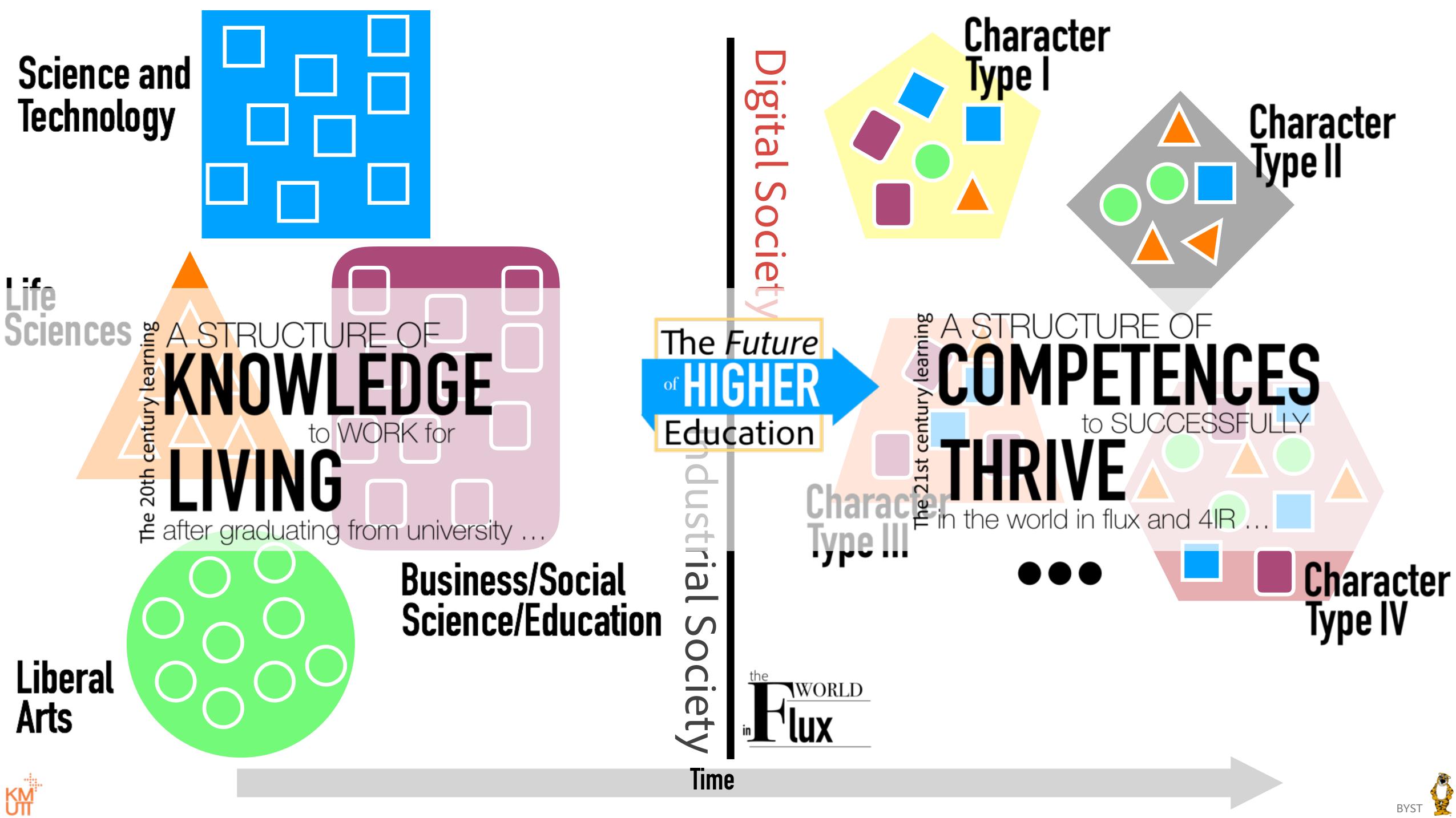
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RUCTURE OF 20th century learning to WORK for after graduating from university ...

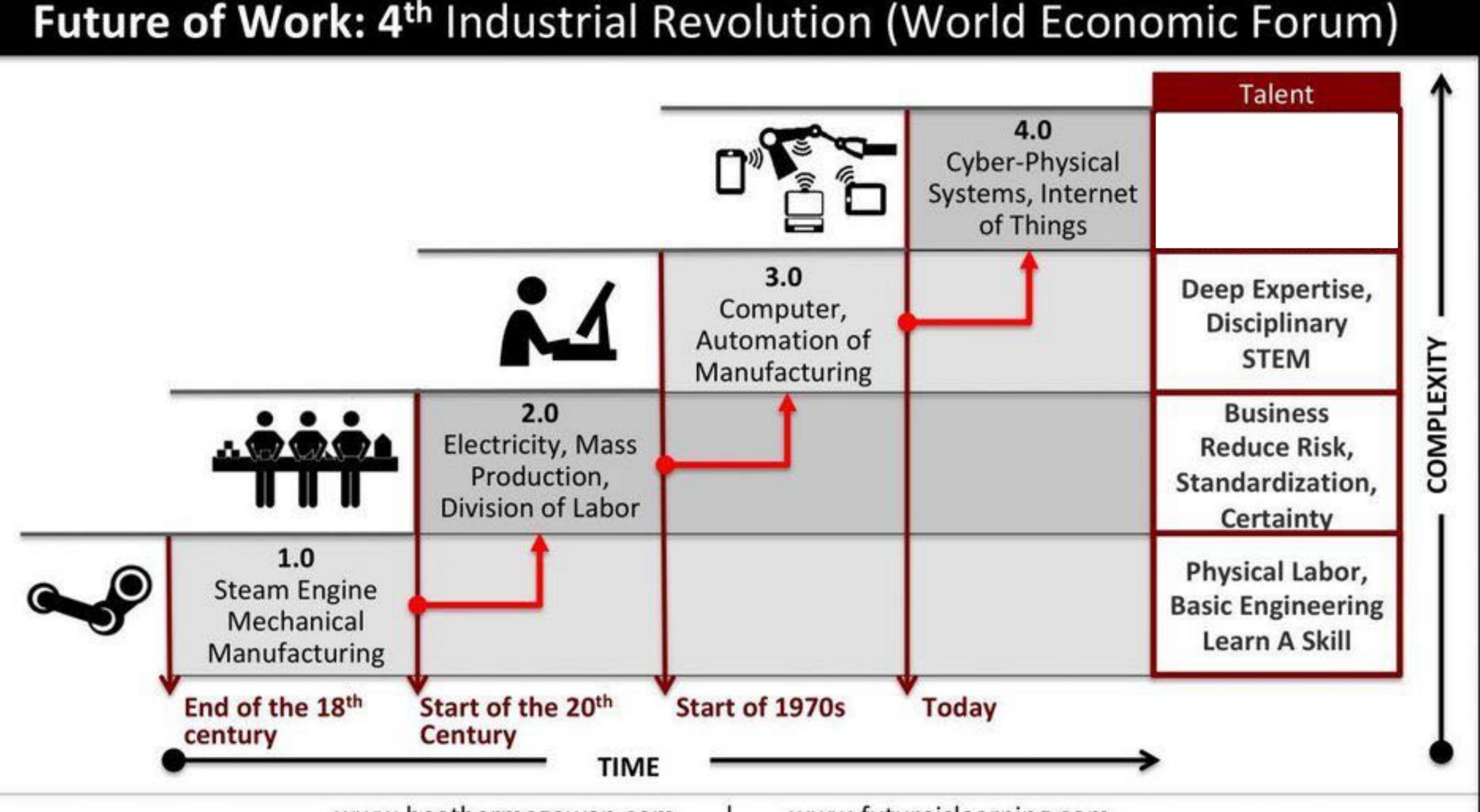


A STRUCTURE C COMPETE to SUCC THRNAE in the world of 4.0 ... JCTURE OF to SUCCESSFULLY The *Future* **HIGHER** Education



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Future of Work: 4th Industrial Revolution (World Economic Forum)



www.heathermcgowan.com

www.futureislearning.com







EUROPEAN KEY COMPETENCES FOR LIFELONG LEARNING

Personal, social and learning

Citizenship

Digital



Science, technology, engineering, mathematical

Multilingual

Key competences

Cultural awareness and expression

Entrepreneurship



Personality & Motivation [Self]

Performance (Self & Feedback) Change Agility

> Selfawareness

C

People Agility





Learning Agility





process 🦻

people

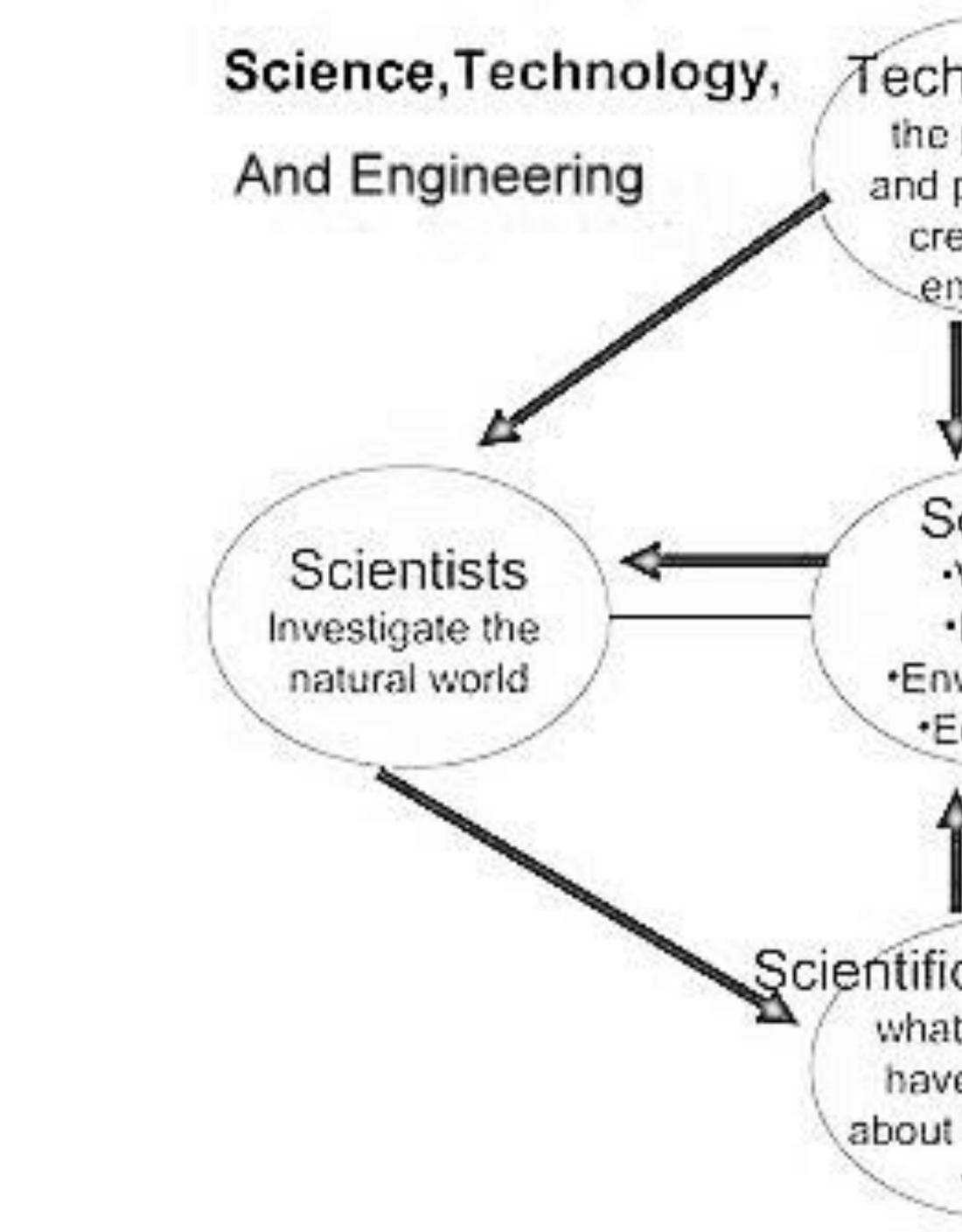


7¶‡+ ⊳ç intangible dynamic transient

of everything

N





KM

Technologies the products and processes created by engineers

> •Needs •Environment •Economy

> > î

Scientific Knowledge

what scientists have learned about the natural

world

What is the difference between science, engineering, and technology? How do they interrelate? Here are a few simple ways to distinguish between and relate these fields.

> Engineers Create the designed world

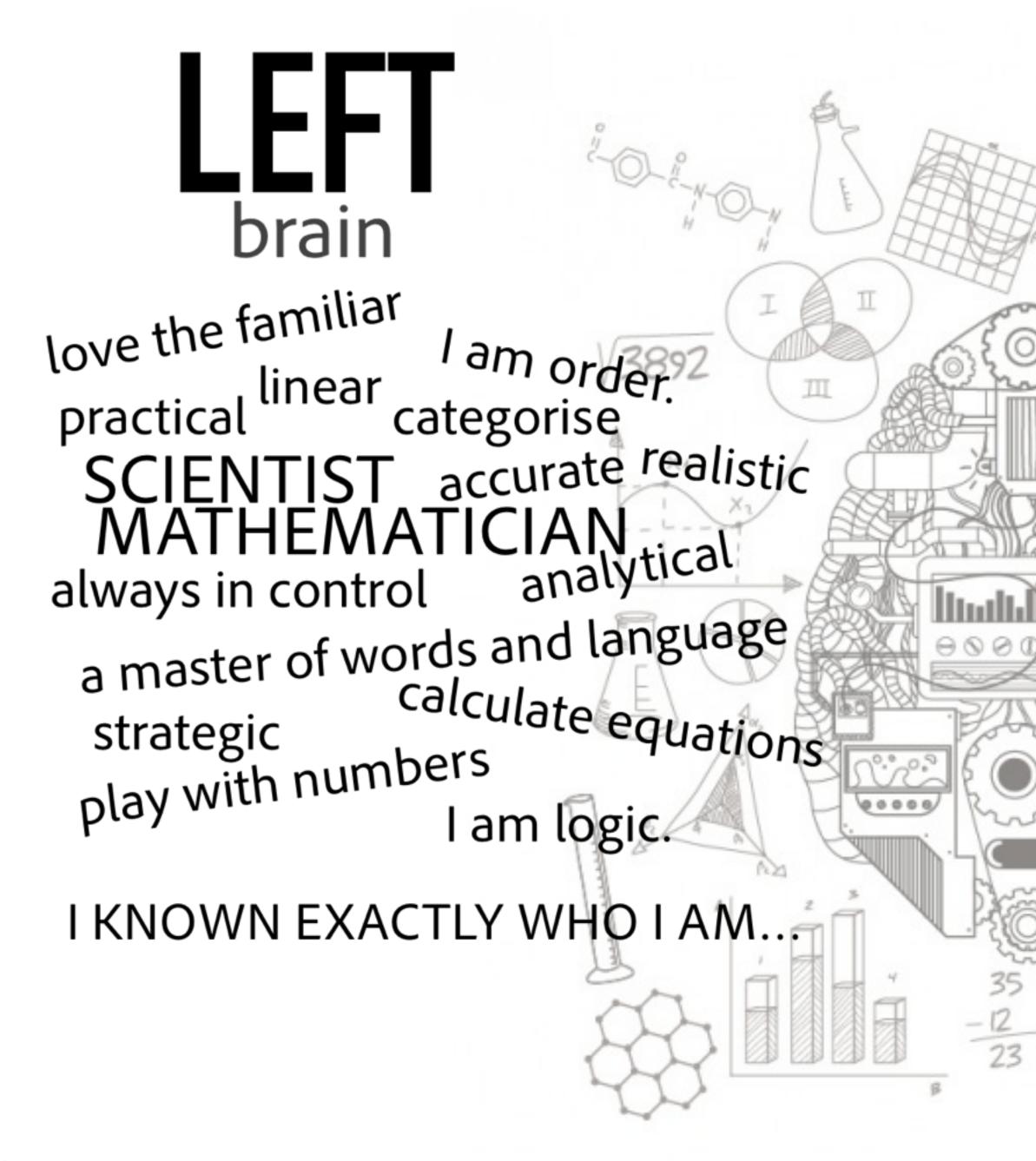










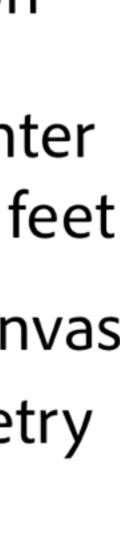






creativity free spirit passion yearning sensuality taste the sound of roaring laughter the feeling of sand beneath bare feet movement vivid colours the urge to paint on an empty canvas boundless imagination art poetry sense feel I AM EVERYTHING I WANTED TO BE ...

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transforming KNOVLEDGE leading to CONTINUOUS EDUCATION SYSTEM

connecting credentials

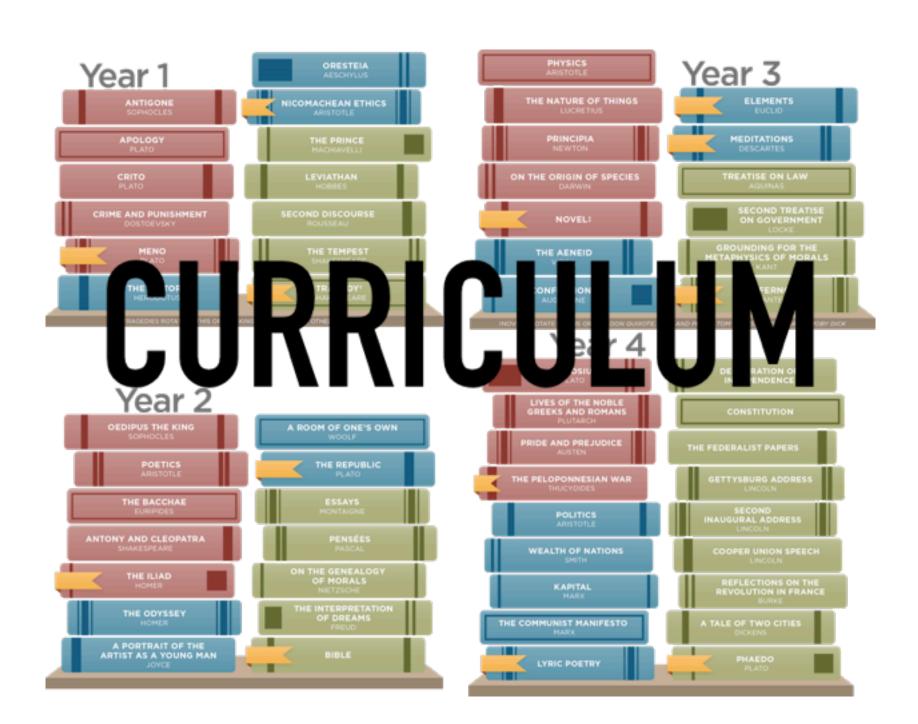
connecting credentials

connecting credentials

the world in "FLUX"









DEGREE QUALIFICATION ROFILE

MINATING OUTCOMES

Programme Learning Outcomes (or Expected or Intended Learning Outcomes)





Principle of curriculum design for "Learning to be": On't start with "what to teach". Curriculum must be structure. Learning activities/pedagogies Activities must be "personalized".



Output Learning modules must be seminal.





UNBUNDLING and

REBUNDLING



Growth of Student

MICRO

growth

engaging

CREDENTIALS MICRO

from learning Development

ACHIEVEMENT of student from LEARNING

moving on

branching CREDENTIALS MICRO



CREDENTIAL

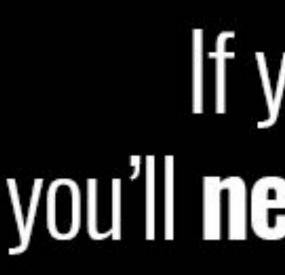


• What characters do our students need to "BE" ? EXPERIENCES • What competences do our students need to be able to "DO" ? practical knowledge • What literacies do our students fundamental need to "KNOW" ? fundaments







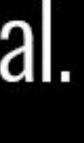




If you're not prepared to be wrong, you'll never come up with anything original.

- Sir Ken Robinson

Goalcast





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