

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



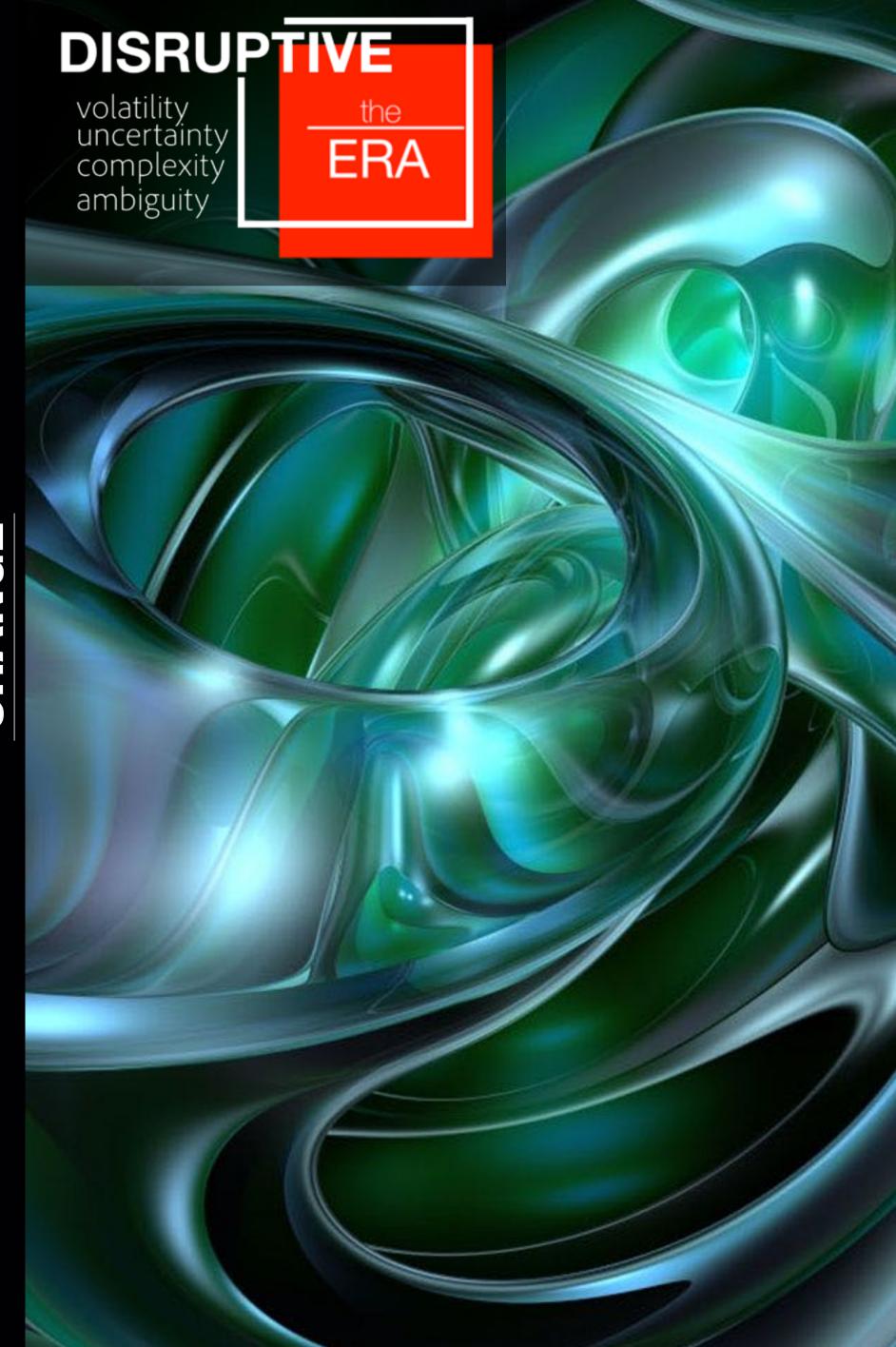
# JUCATION

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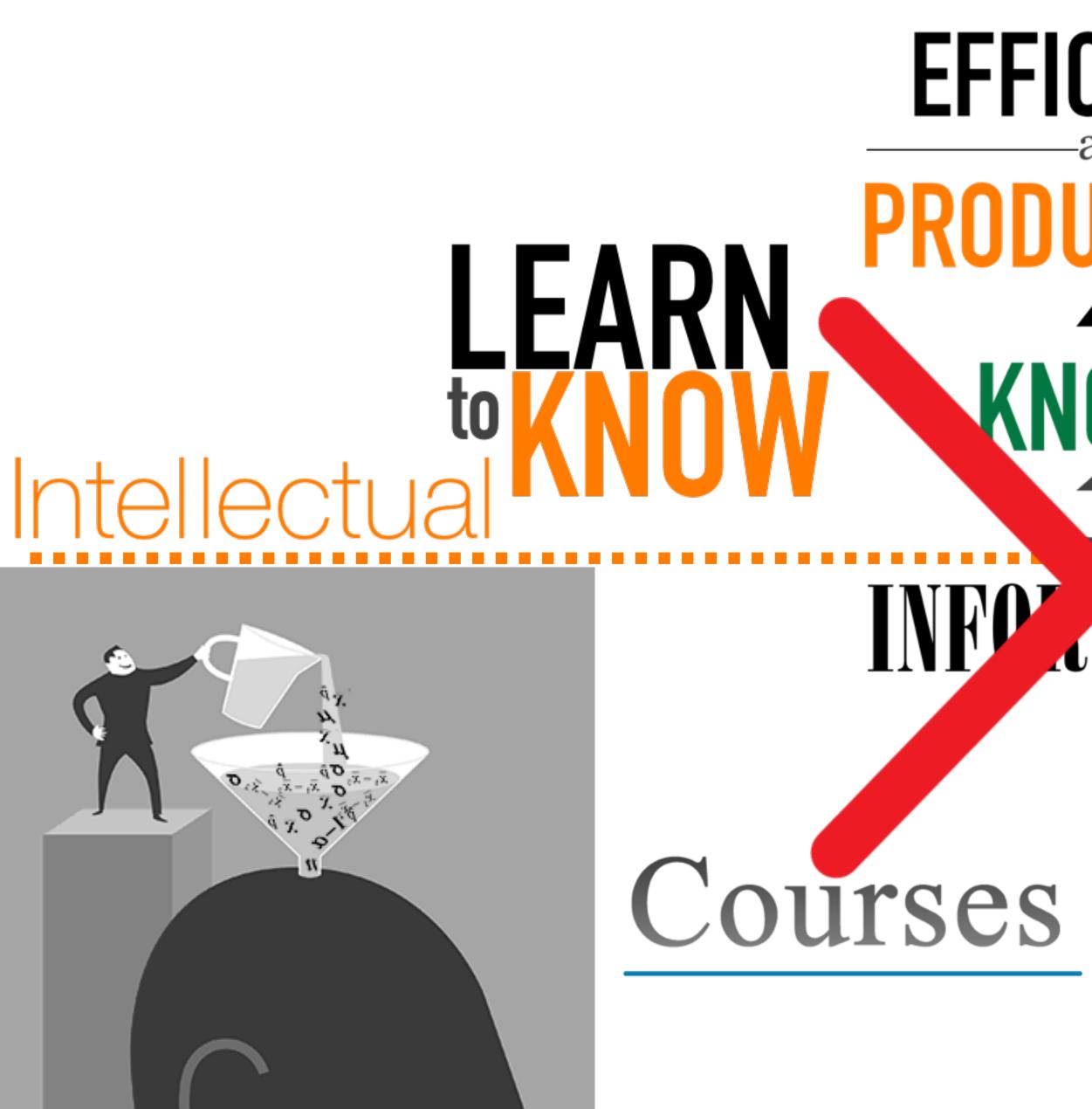




# rate of **CHANGE**

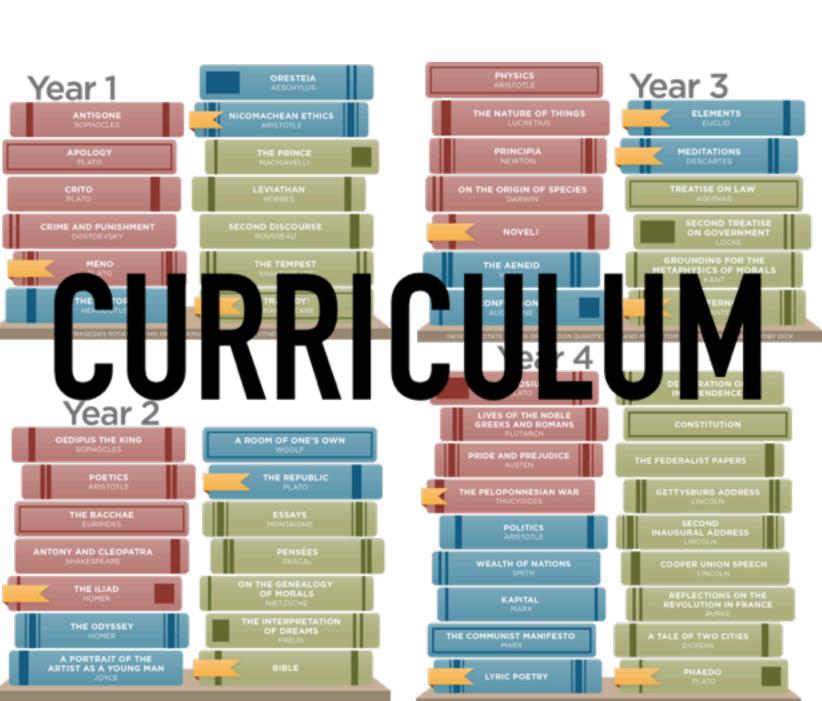






# EFFICIENCY -and-**MATION**

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

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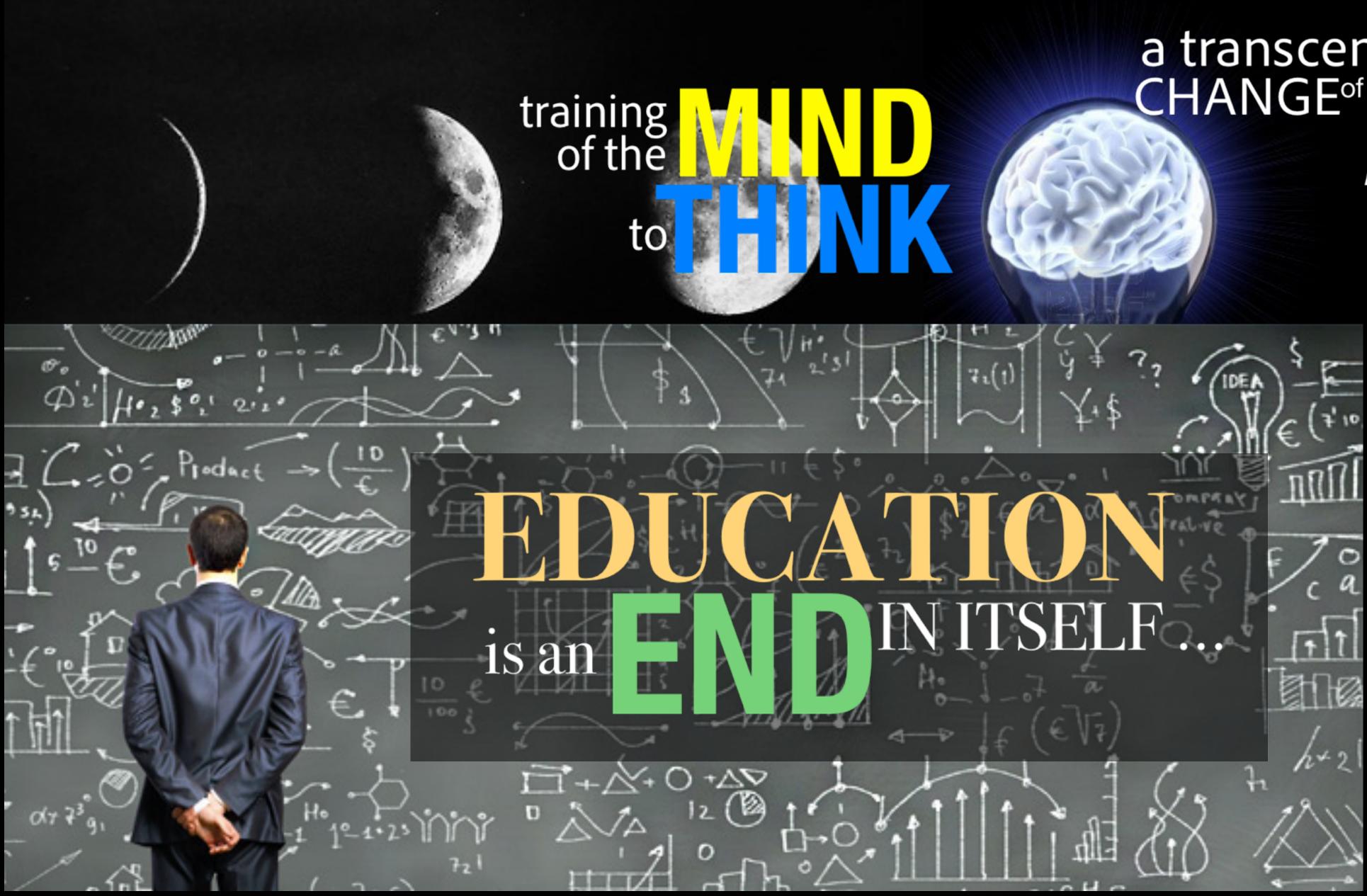


#### SHIFT

#### DISRUPTIVE the ERA









#### a transcendental CHANGE<sup>of</sup> MIND and/or ATTITUDE



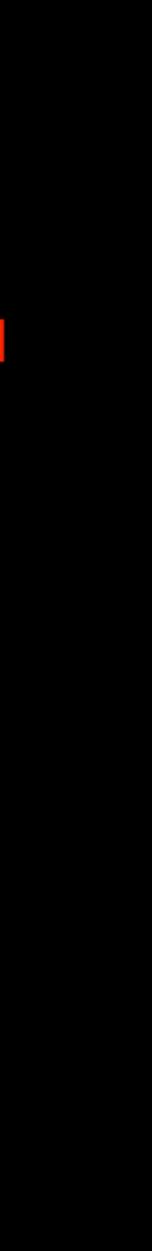






#### COMPUTATIONAL THINKING and HUMANITY for LUCAL the 4th Industrial Revolution

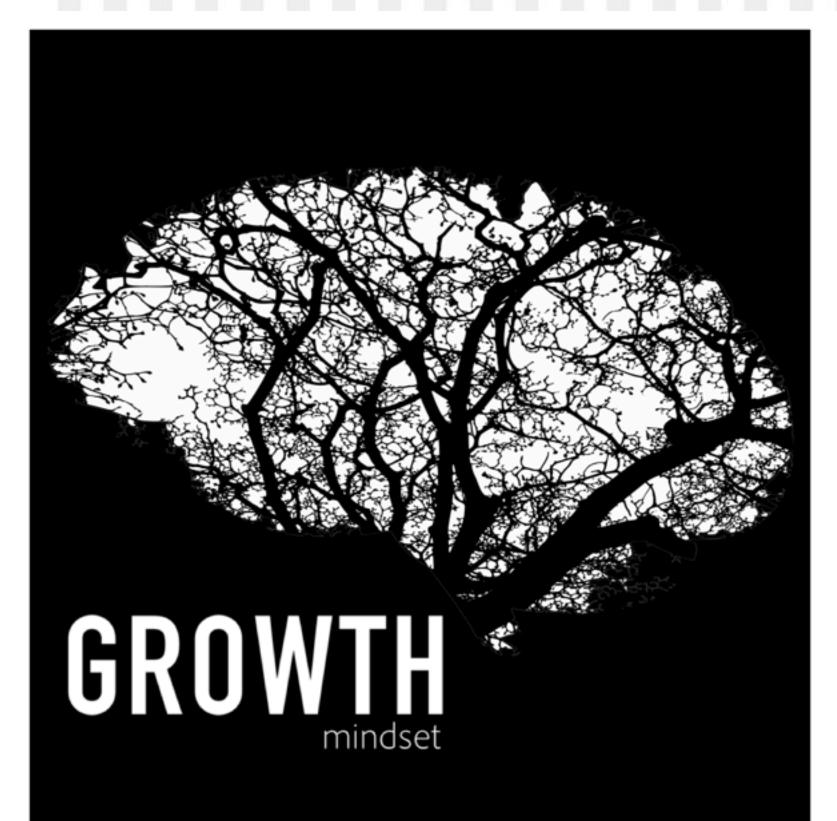
### BAB of MND





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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



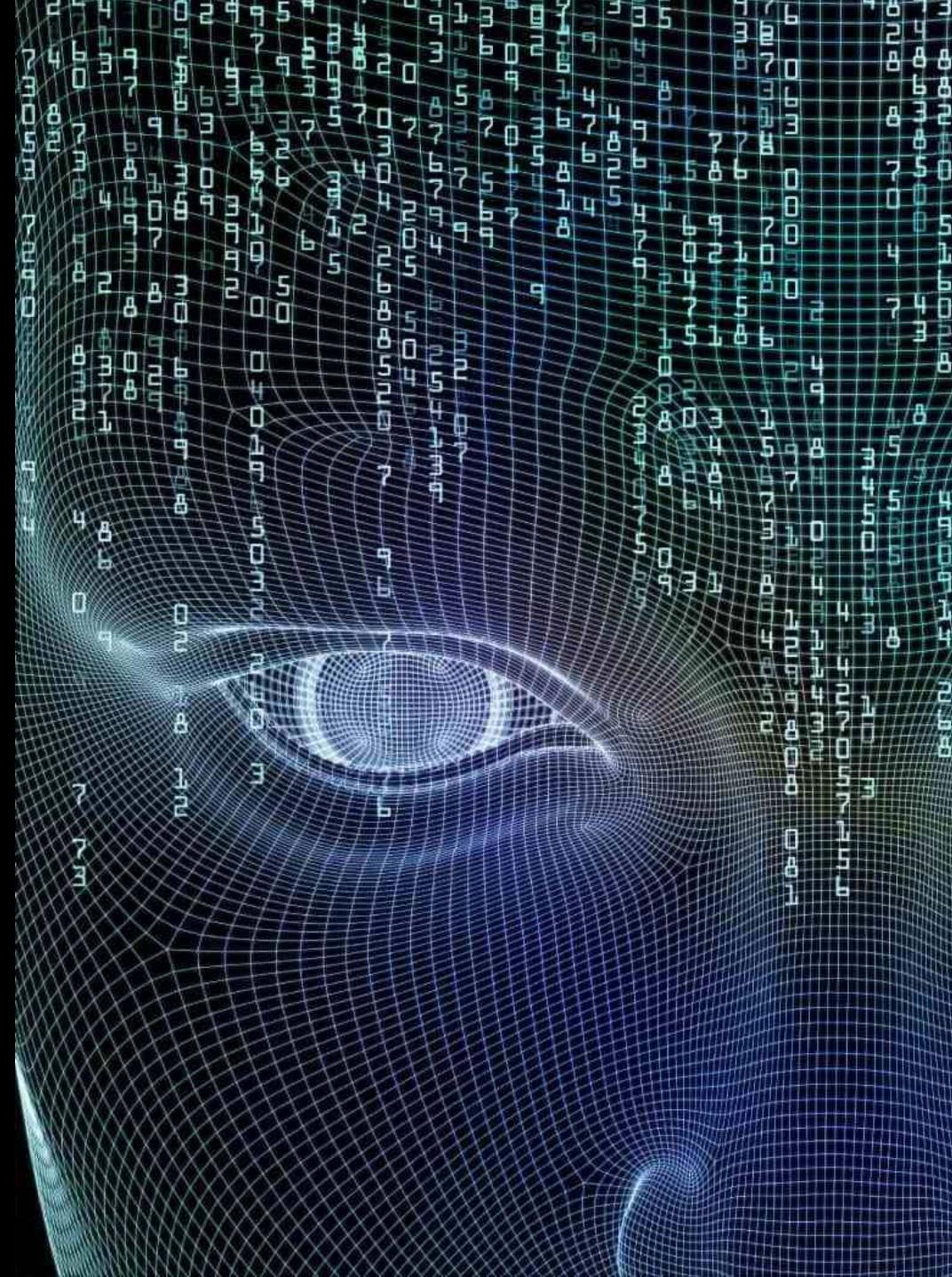


### FOCUSING ON not











# CLARAGE TER Not the

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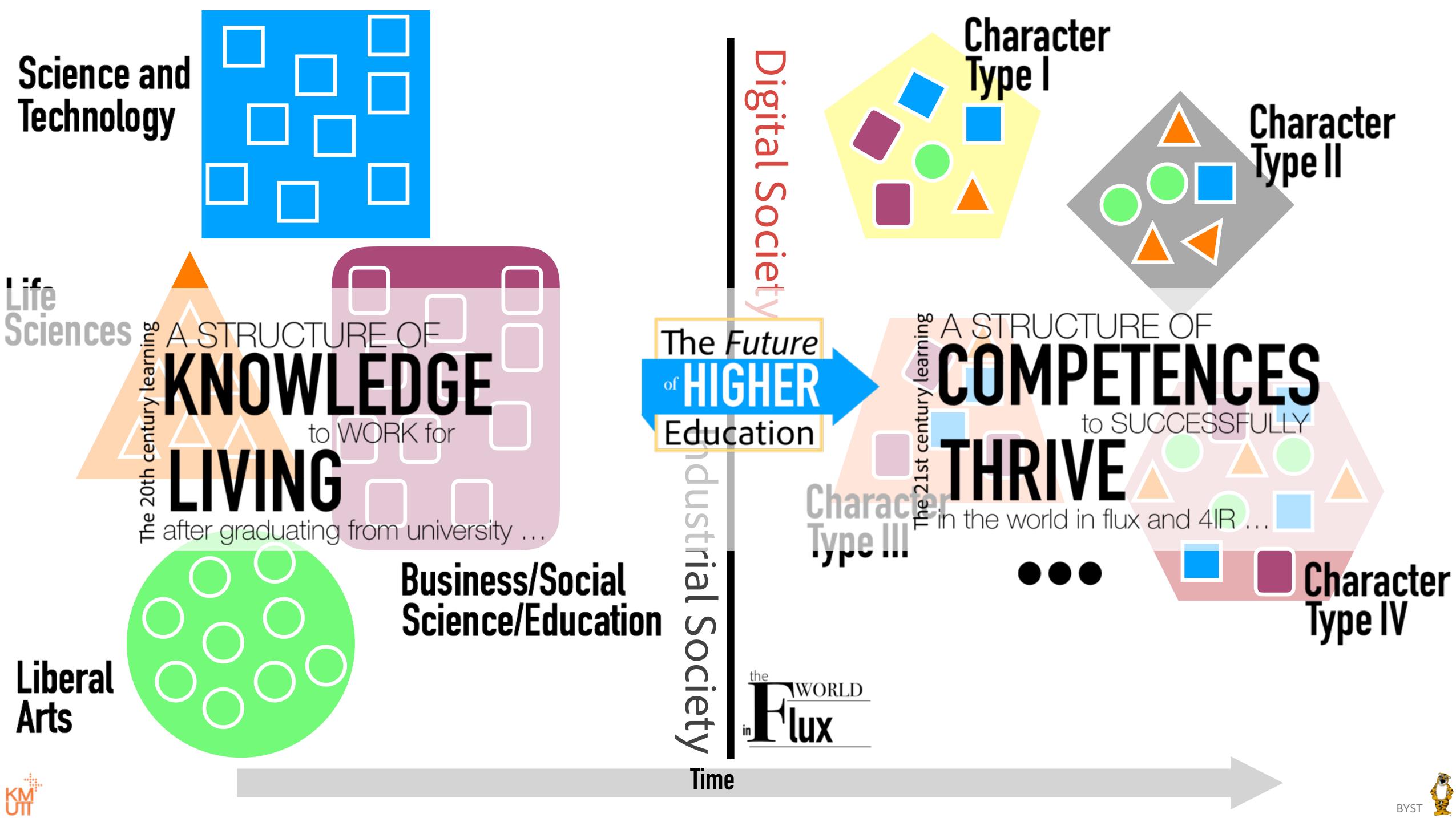
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### RUCTURE OF 20th century learning to WORK for after graduating from university ...

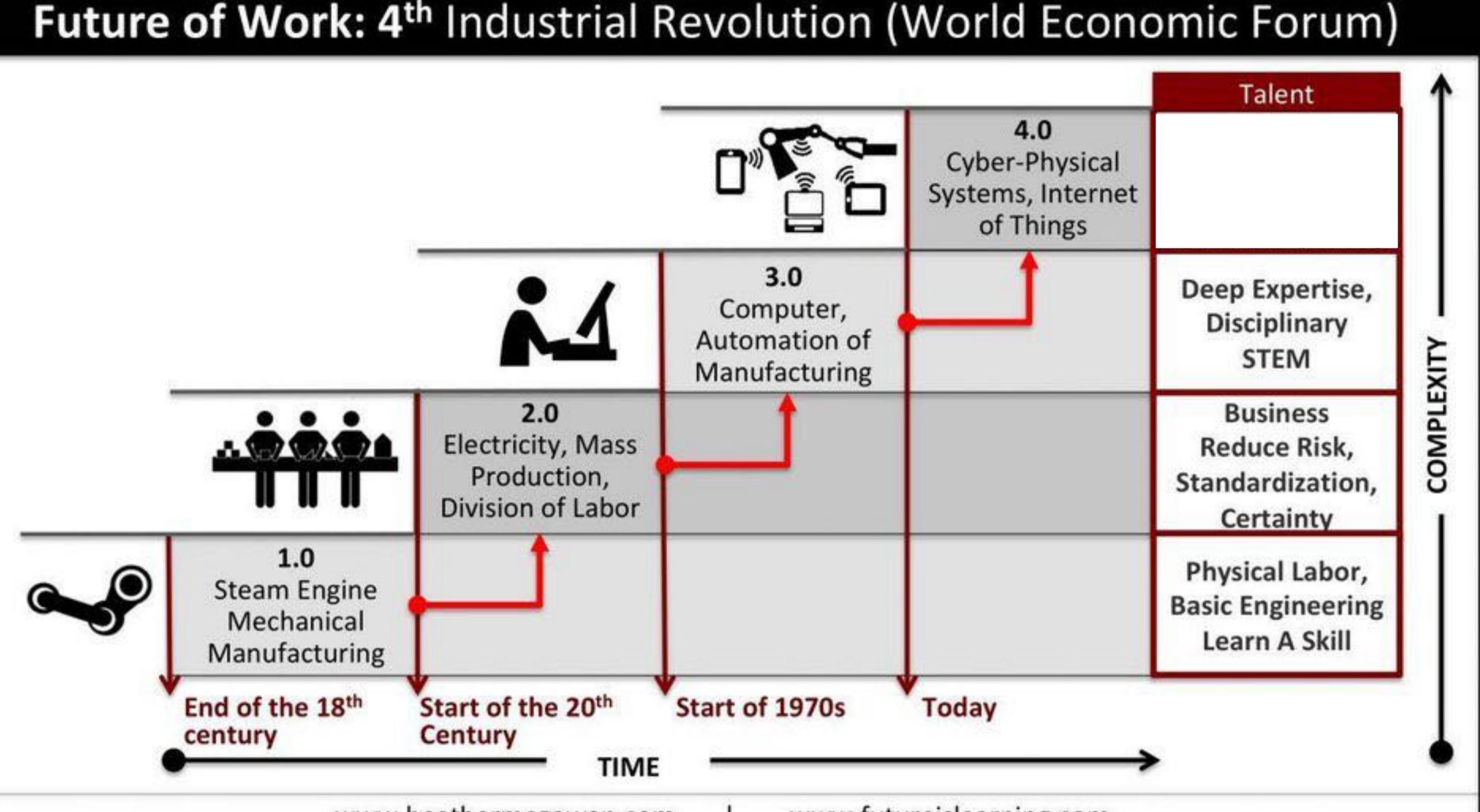


#### A STRUCTURE C COMPETE to SUCC THRNAE in the world of 4.0 ... JCTURE OF to SUCCESSFULLY The *Future* **HIGHER** Education



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#### Future of Work: 4<sup>th</sup> 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





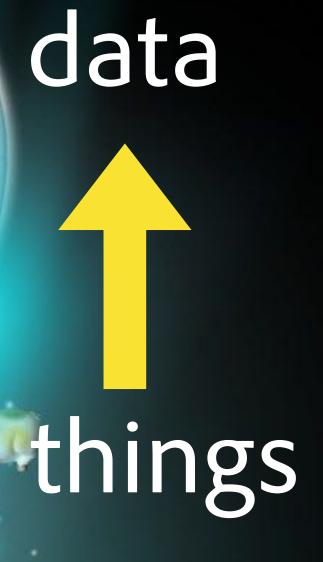
#### Learning Agility





#### process 🦻

#### people

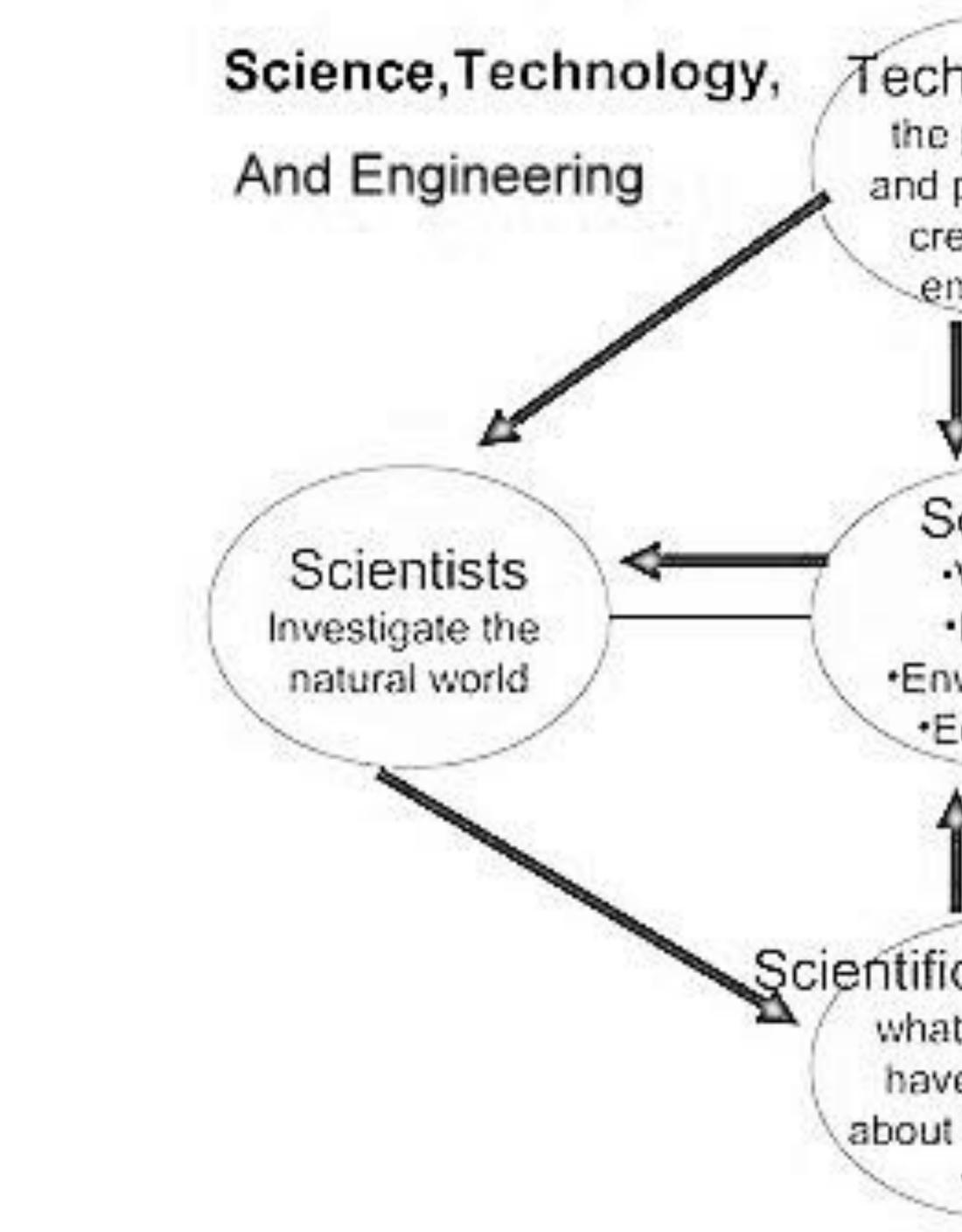


#### 7¶‡+ ⊳ç intangible dynamic transient

### 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

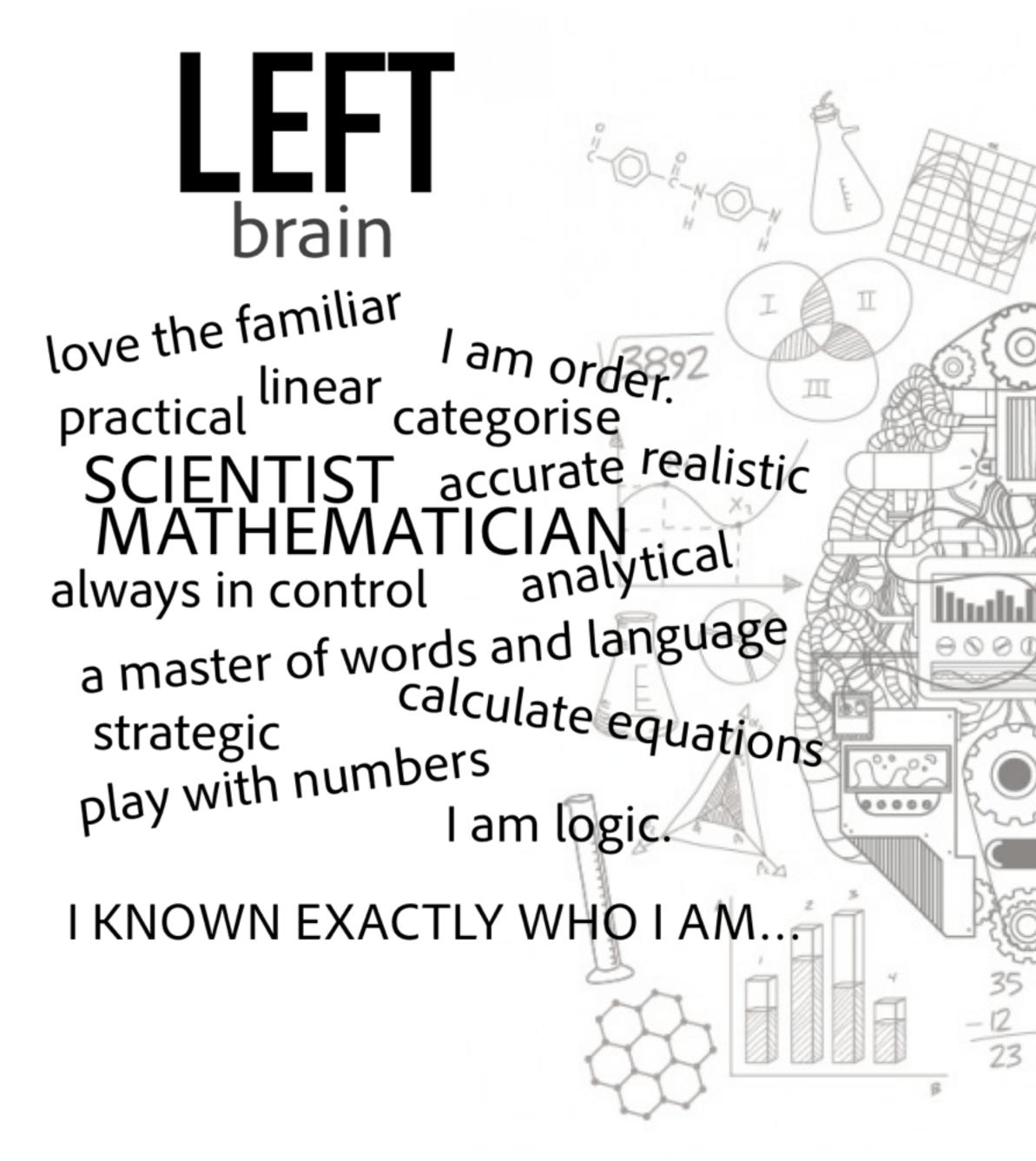










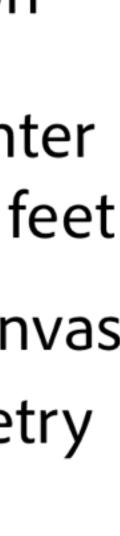






creativity free spirit passion yearning sensuality taste the sound of roaring laughter the feeling of sand beneath bare feet movement vivid colours the urge to paint on an empty canvas boundless imagination art poetry sense feel I AM EVERYTHING I WANTED TO BE ...

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### transforming KNOVLEDGE leading to CONTINUOUS EDUCATION SYSTEM

#### **connecting** credentials

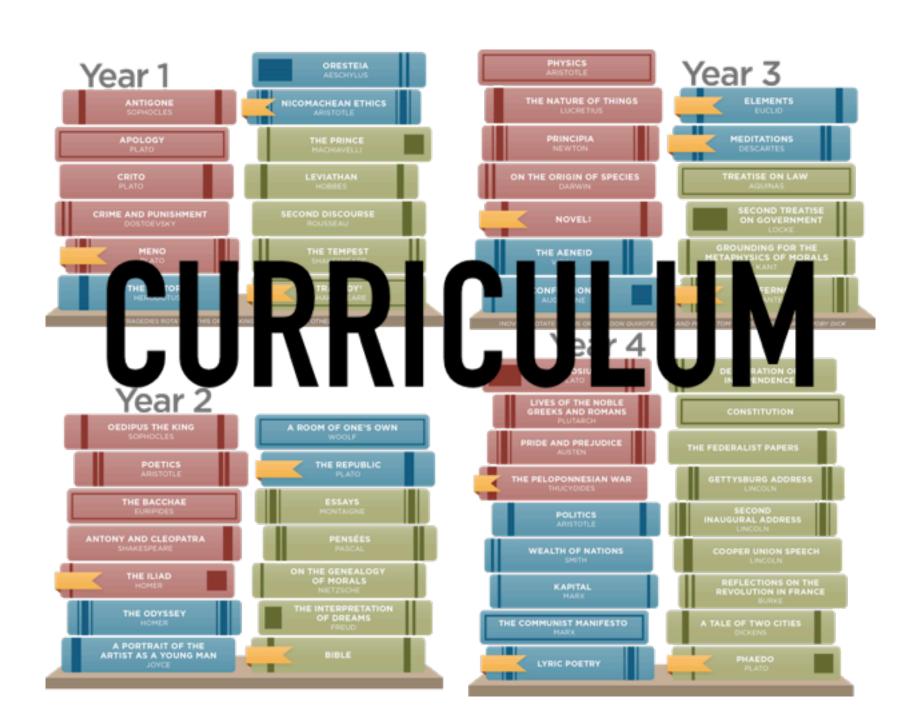
#### connecting credentials

#### **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

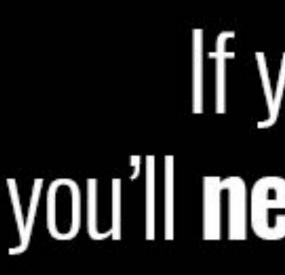


# • What characters do our students need to "BE" ? EXPERIENCES • What competences do our students need to be able to "DO" ? practical knowledge • What literacies do our students fundamental need to "KNOW" ? fundaments







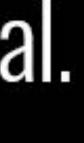




### If you're not prepared to be wrong, you'll never come up with anything original.

- Sir Ken Robinson

Goalcast





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