Commonwealth of Learning

浙江广播电视大学
ZHEJIANG OPEN UNIVERSITY

Reforming Open Universities: An International Perspective

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40th Anniversary Celebration | ZHEIJIANG | November 16, 2019

Plan

- Drivers of reform
- Implications for Open Universities
- Areas of reforms
- Road ahead

Drivers of reform

1. Migration and Displacement

Nearly 70.8 million displaced people by the end of 2018 (UNHCR, 2019).

Photo Credit by Julien Harneis at https://www.flickr.com/photos/16935515@N00/2467999253 cc-by-sa-2.0

Sources: https://migrationdataportal.org/themes/forced-migration-or-displacement

And China is part of the migration

Almost 500,000 international students in China in 2018

By Zou Shuo | chinadaily.com.cn | Updated: 2019-04-12 17:37

A foreign student learns batik art in Danzhai county, Southwest China's Guizhou province, Jan 11, 2018. [Photo/Xinhua]

Almost 500,000 international students studied in China in 2018, earlier slight increase on 2017, the Ministry of Education said Friday.

Chinese students studying abroad up 8.83%

By ZOU SHUO | chinadaily.com.cn | Updated: 2019-03-28 10:45

Students from China pose for photos after graduating from a business studies course at the University of Sydney in October 2017. [Photo by William West/For China Daily]

The number of Chinese students studying abroad reached 662,100 in 2018, up 8.83 percent from a year earlier, the Ministry of Education said on Wednesday.

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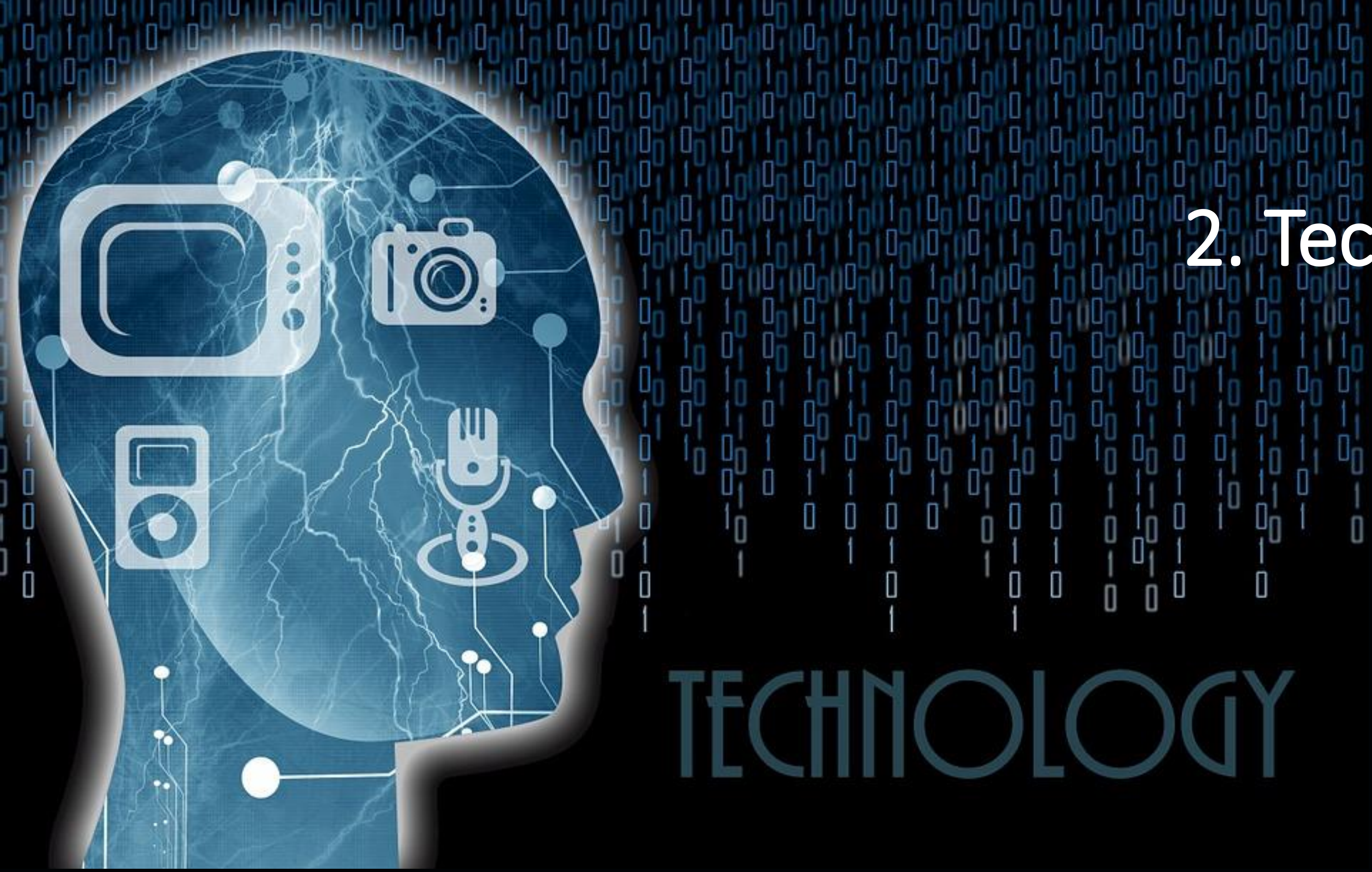
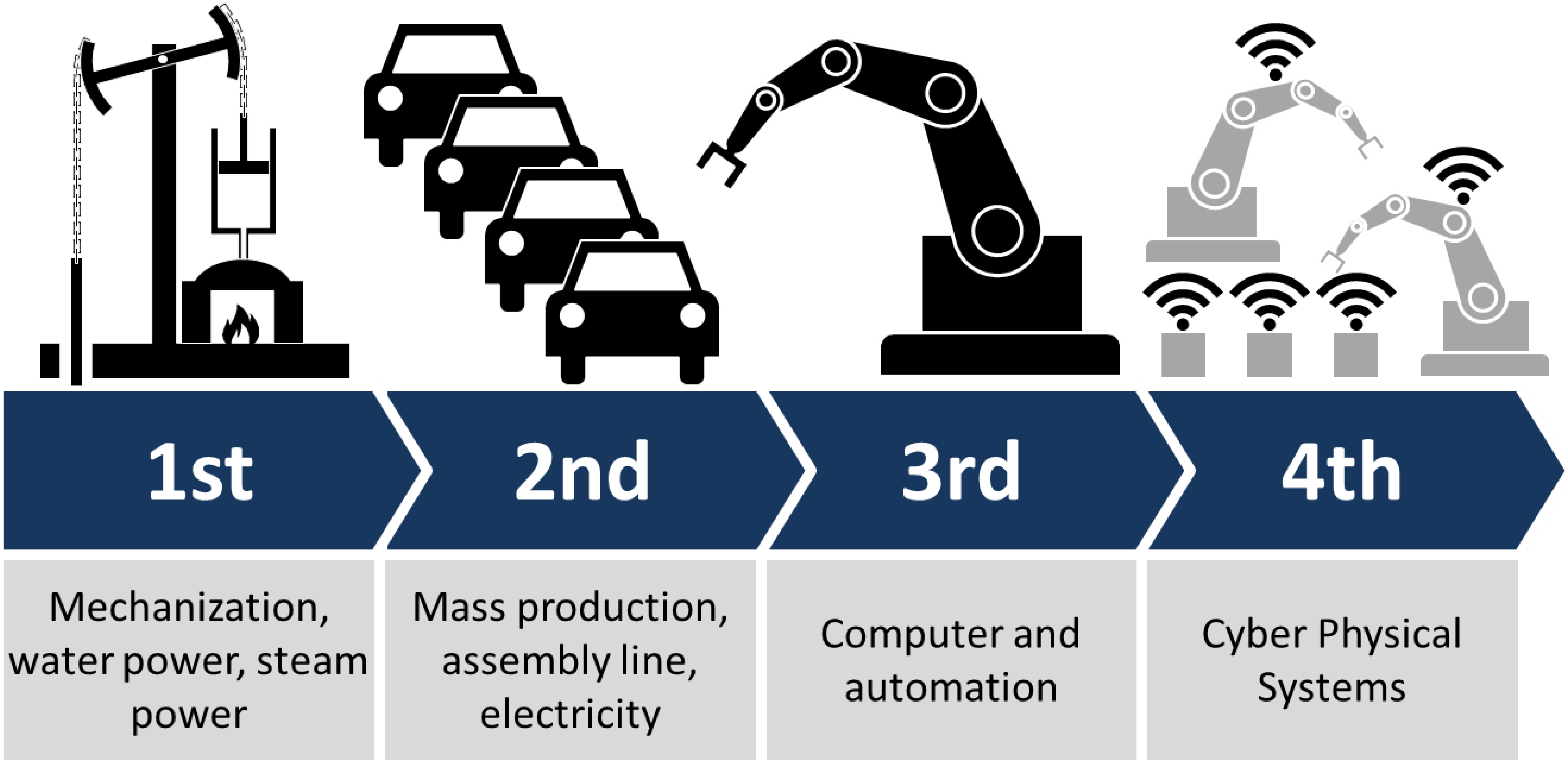


2. Technology

Photo Credit https://pixabay.com/illustrations/technology-digits-human-data-662833/

Fourth Industrial Revolution



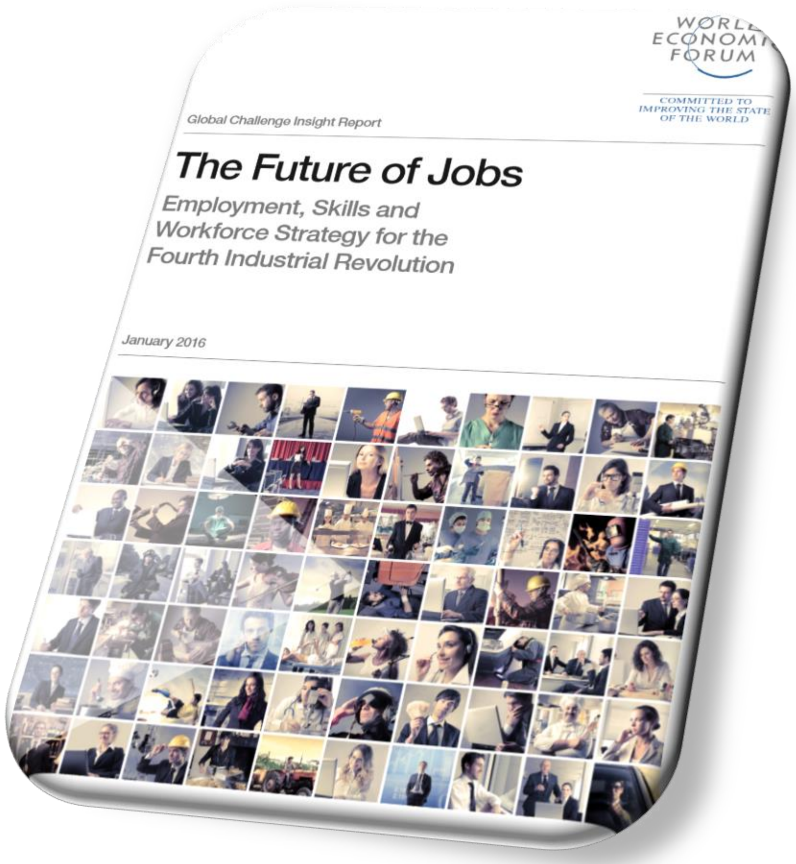
3. Changing Nature of Work

Photo Credit: https://commons.wikimedia.org/wiki/File:Krupp_Factory_WWI.jpg

Photo Credit: https://pixabay.com/illustrations/automation-engineers-engineering-2710335/

Future of work

- 65% of children entering primary school today will work in completely new job types that don’t yet exist.
- Simply reforming current education systems …to meet future skills requirements is not going to be enough….
- Ageing countries …will need wholesale reskilling of existing workforces throughout their life



Source: http://www3.weforum.org/docs/WEF_Future_of_Jobs.pdf

https://www.flickr.com/photos/npsclimatechange/14227656790

4. Climate change

Climate crisis

Nearly 40 million children a year have their education interrupted by natural disasters

Cyclone Idai (March 2019)
Mozambique, Zimbabwe and Malawi

Photo Credit Denis Onyodi: IFRC/DRK/Climate Centre, CC BY-NC 2.0

Sources: https://theirworld.org/resources/detail/safe-schools-the-hidden-crisis | https://reliefweb.int/report/mozambique/when-disaster-strikes-how-education-and-childrens-futures-were-battered-cyclone

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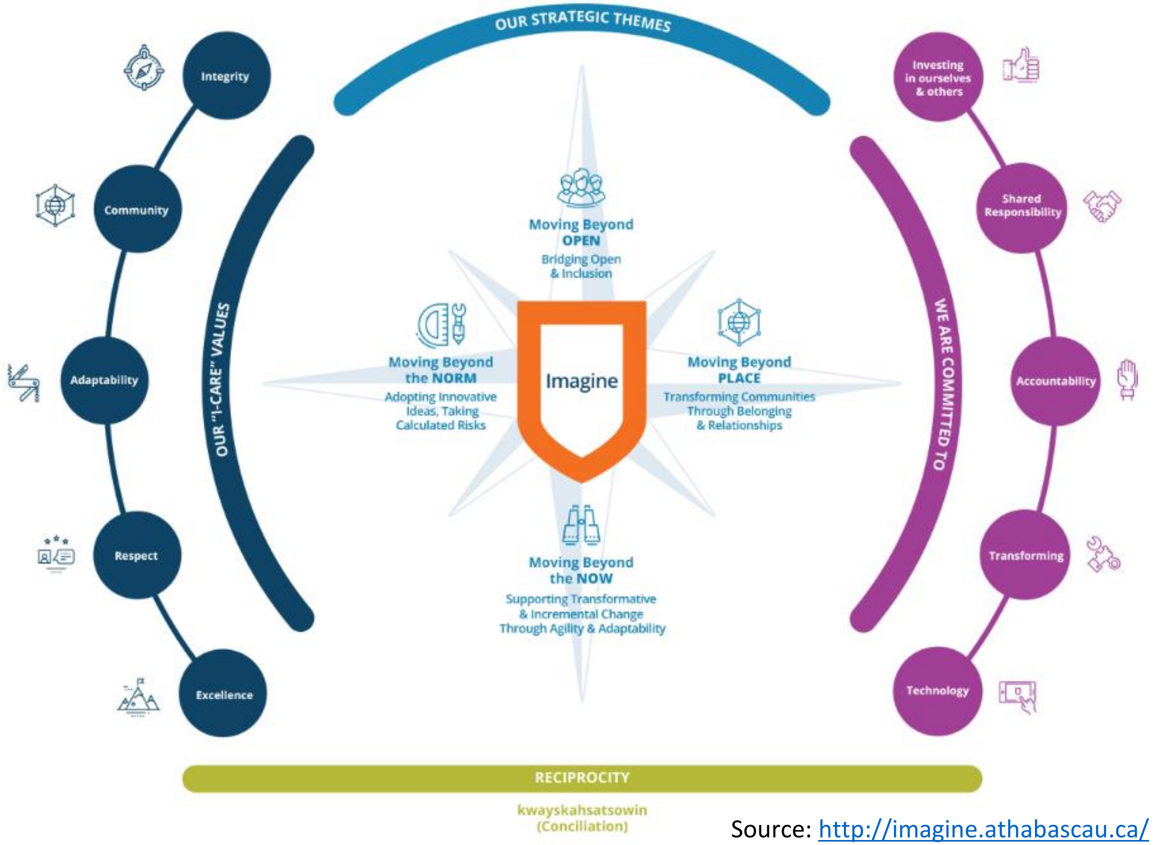
Challenges for Universities

- Mobility of graduates
- Emergence of new educational delivery models
- Employability of graduates
- Emphasis on growing carbon footprint

Implications for Open Universities

Athabasca University

- Teaching and learning to support lifelong learning
- Diversifying provision through credentials and non-credit courses
- Data informed student service
- Course development using open educational resources
- Focus on innovation, research and collaboration



Source: http://imagine.athabascau.ca/

- Extending reach through FutureLearn
- Enhancing use of multiple media channels such as iTunes and YouTube
- Extending global footprint through partnership
- Modernise student support systems and processes

UNISA university of south africa

- Ensure every student has access to the internet
- Promoting a paperless environment with an electronic device for every student
- Increasing implementation of e-books, online learning, e-tutors and e-mentors
- Using OER

Source: https://www.unisa.ac.za/sites/corporate/default/About/Who-we-are/Our-future

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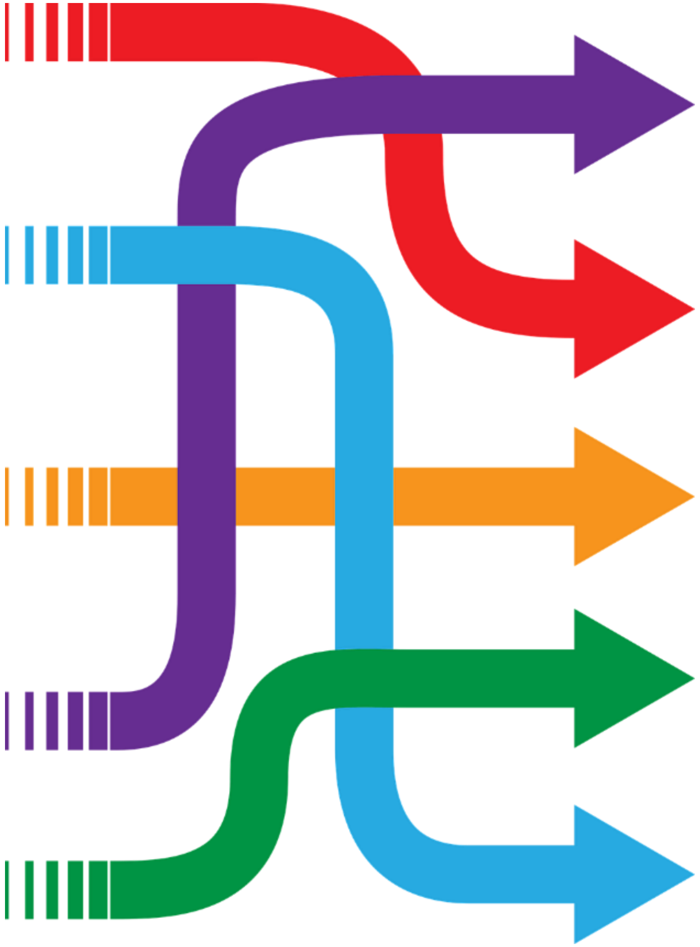
Key Strategies



Use of technology

Using open educational resources

Building partnerships

Strengthening learner support

Using data to drive teaching, innovation and research

Areas of Reform

1. Curriculum

The path to achieving the Sustainable Development Goals could be found underground. Photo: ADB

Subscribe to Newsletter

By Martin Lemoine

There is one sector that contributes up to a third of gross domestic product, and is an important source of foreign currency, in many of Asia's developing countries. It could be deployed to achieve the Sustainable Development Goals.

Source: Asian Development Blog, (July 2019)

Skills Mis-match

36% of college graduates did not show any significant cognitive gains over 4 years

Arum & Roksa, Academically Adrift, 2011

Half the employers say they have trouble finding qualified graduates to hire

Chronicle of HE and Marketplace

Cover Credit: Photographs by Peter Hapak for Time

"Employers, Education Providers and Youth Live in Parallel Universes"

Country	% of youth who believe that their Secondary Education Improved their Employment Opportunities	% of Employers who believe that new graduates are not adequately prepared for entry level vacancies
Brazil	59	48
India	54	53
Turkey	46	56
United States	44	45

Source: McKinsey Survey, August-September 2012, in Education to Employment: Designing a System That Works, McKinsey Center of Government

Skills for Employability?

- Non-cognitive skills: leadership, communication, honesty/ethics, teamwork and flexibility
- Cognitive skills: analytical and critical thinking and the ability to learn

Burnett, 2012

C21 requires ‘relationship workers’

- Social skills
- Problem solving
- Creativity

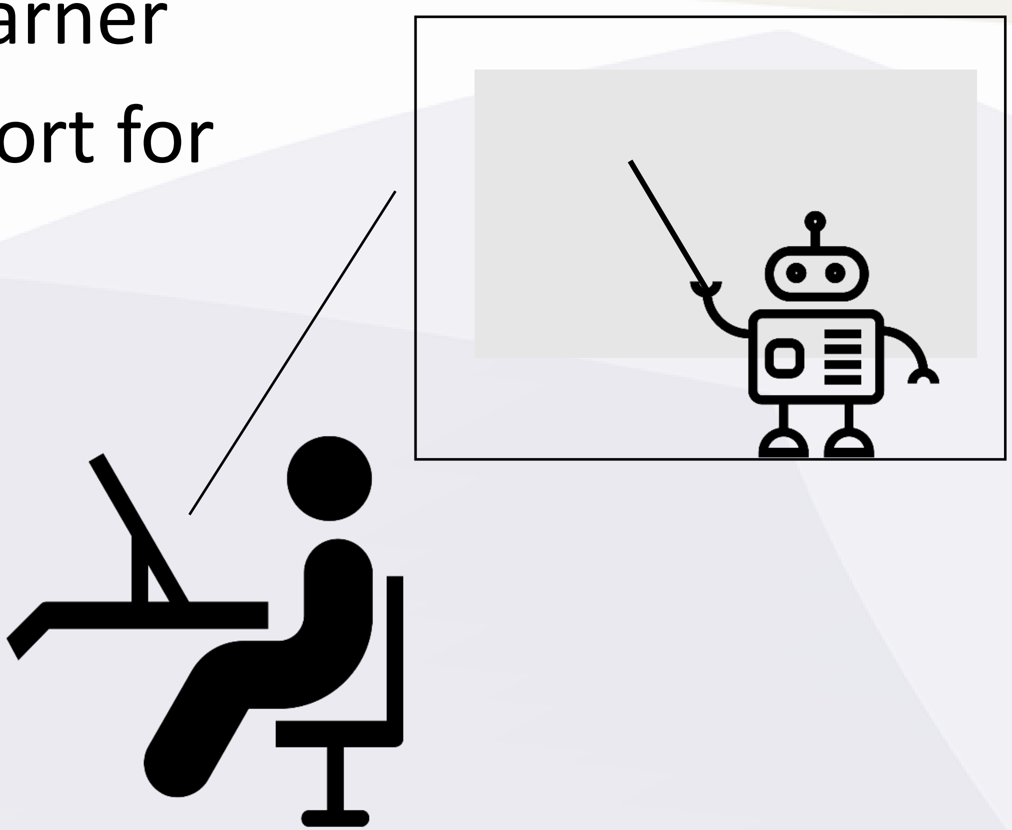
Geoff Colvin, Humans are Underrated, 2015

2. Teaching, Learning and Assessment

https://pixabay.com/illustrations/online-education-internet-3412498/

More Personalized Teaching: AI

- Can provide an intelligent, personal tutor for every learner
- Encourage intelligent support for collaborative learning
- Adaptive group formation
- Expert facilitation



Source: https://www.ibm.com/watson/advantage-reports/ai-social-good-education.html

Use of Chatbots

Text, **Video** and **Animated Images** form the backbone of the chatbots. These chatbots too have QR-codes so that videos can be viewed directly from the smart-phone. While dialogues/conversation are important in learning programming but programming can't be learnt entirely through these type of communication. Thus, the chatbot also support immersive learning and visualizations, so that difficult Java programming concepts can be explained easily for easy understanding and to reduce the mental load of the students when learning programming. QR-codes, videos and animated images together provide the immersive learning environment in the chatbot.

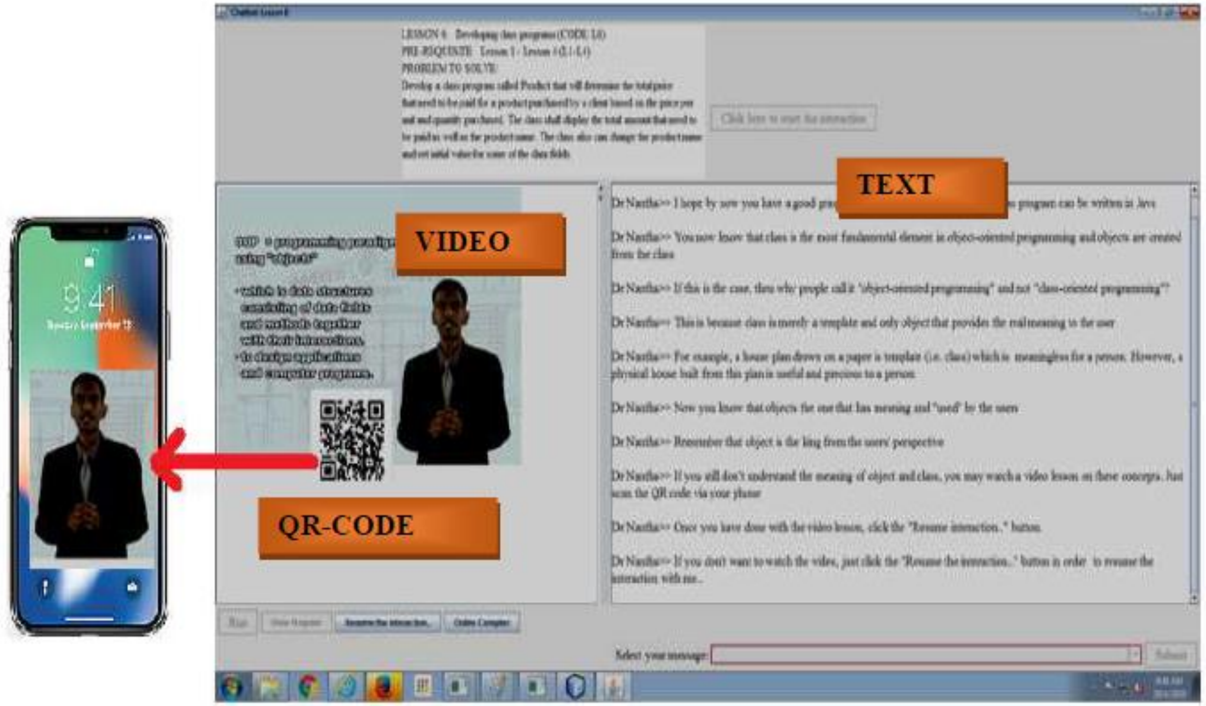


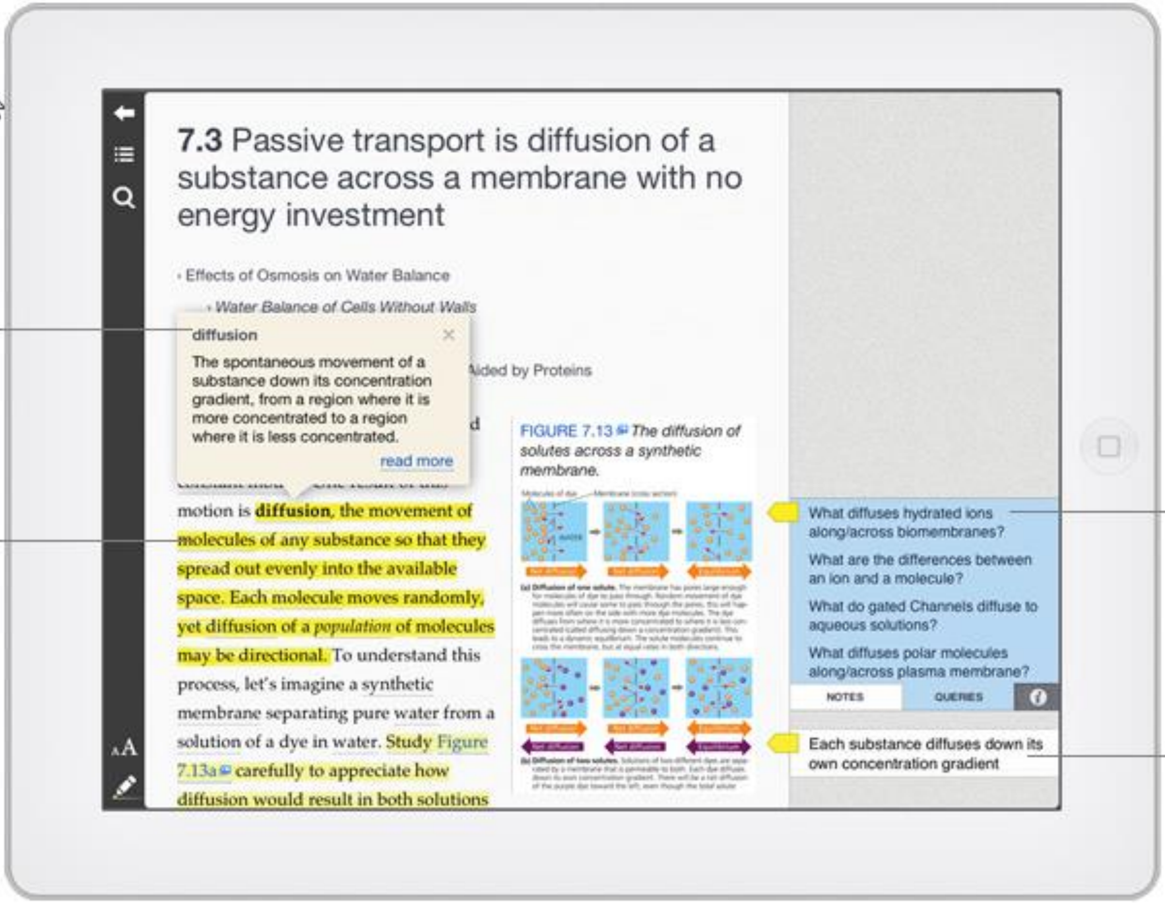
Figure 6 The media components used in the chatbot as viewed from the desktop

Live experience: AR/VR

Inquire: an intelligent textbook

Tap any biology term to see a quick **popup definition** and get a link to Inquire's detailed glossary.

Highlighting is quick and easy, and each highlight serves as the anchor for a notecard and a list of related questions.



Each highlight has a blue card with **suggested questions**, encouraging students to dig deeper into the material.

Write notes in the margin, making them easy to reference later.

Source: http://inquireproject.com

Learner and learning support in practice


CONTACT NORTH | NORD Online Learning | Apprentissage en ligne

www.contactnorth.ca

STUDENT SUPPORT SERVICES FOR ONLINE LEARNING RE-IMAGINED AND RE-INVIGORATED: THEN, NOW AND WHAT'S TO COME

LESSONS LEARNED FROM THE CALIFORNIA COMMUNITY COLLEGE SYSTEM (CCC), THE LARGEST SYSTEM OF HIGHER EDUCATION IN THE U.S.A.

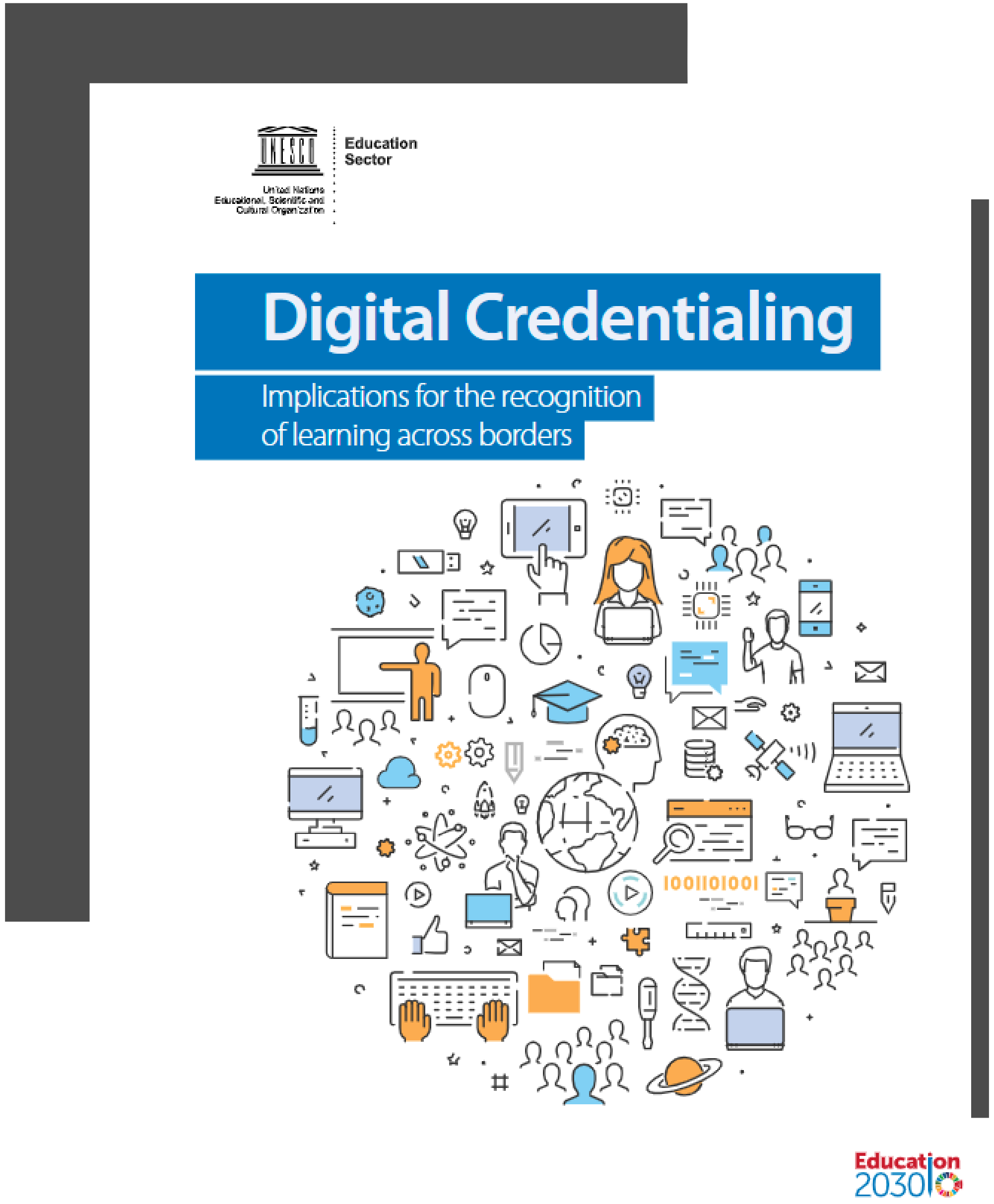
Bonnie Peters (California Community Colleges Online Education Initiative

Anita Crawley (California Community Colleges Online Education Initiative)

Jane E. Brindley (Contact North | Contact Nord Research Associate; University of British Columbia)

September 2017

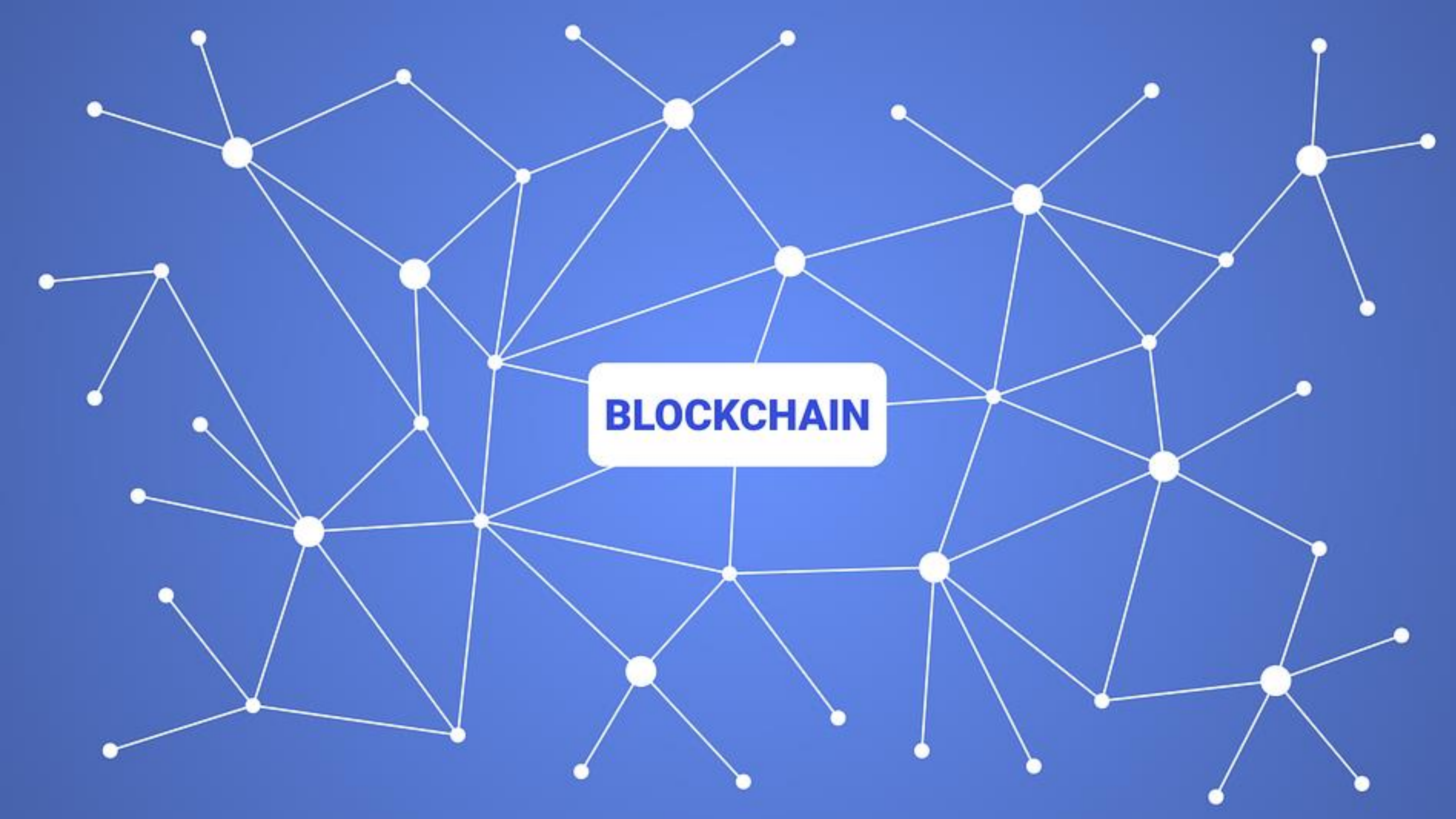
- Online support hubs 24/7
- Ethical use of learning analytics
- Support for entire learning journey
- Keeping the human touch



Assessment

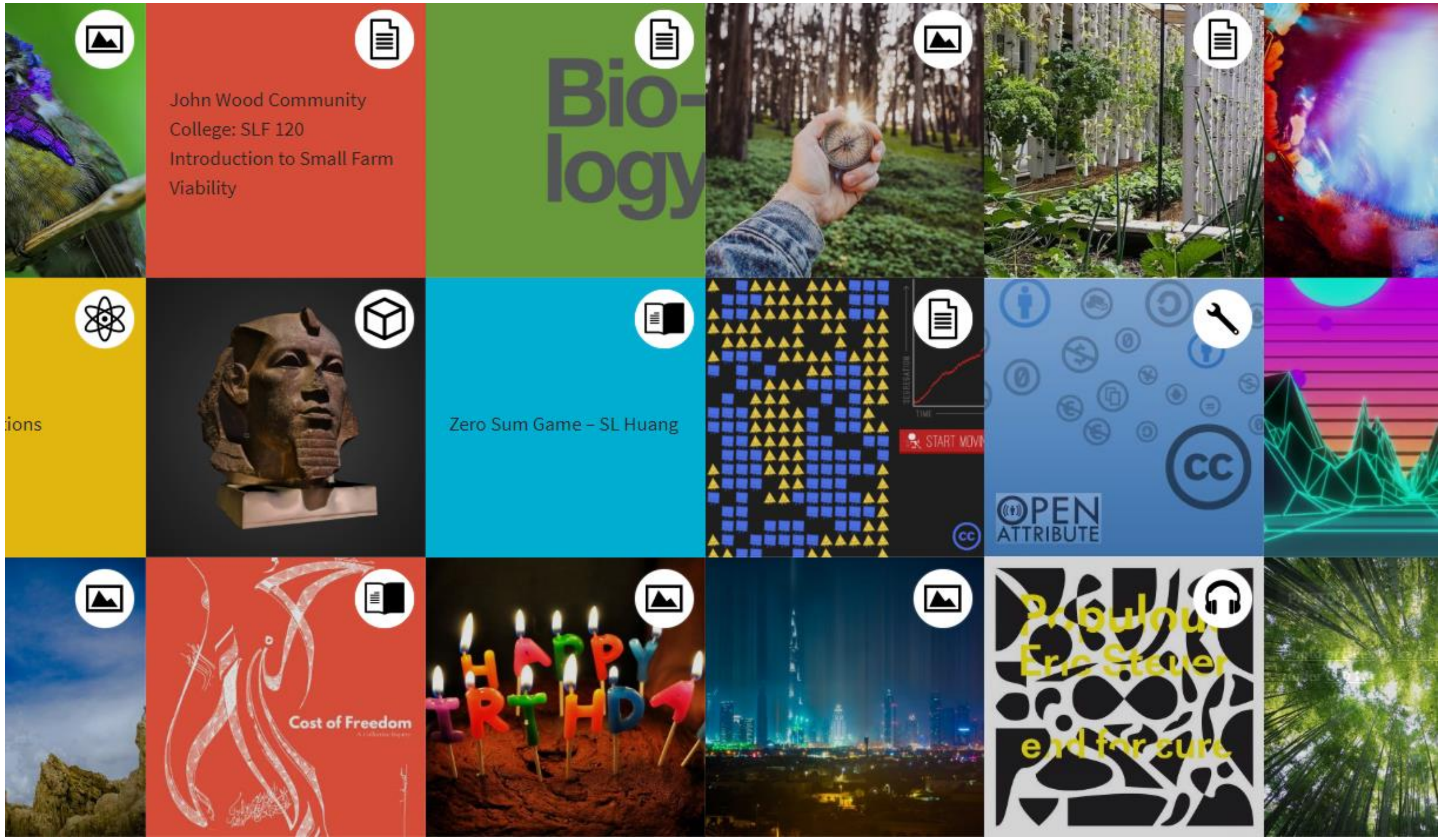
- Badges & micro-credentials
- Recognition of prior learning
- Transnational qualifications frameworks for mobility
- On-demand examination
- Authentic, project-based assessment

https://unesdoc.unesco.org/ark:/48223/pf0000264428?posInSet=4&queryId=N-e4559bf5-0bec-40c7-91a9-5cdea42e1ca4


BLOCKCHAIN

3. Openness and Flexibility

- 1.6 billion OER on the Internet
- 900+ universities offering MOOCs
- 11.4 K courses on MOOCs



https://creativecommons.org/ | https://www.classcentral.com/report/mooc-stats-2018/

Massive Open Online Courses: MOOCs

- Major MOOC initiatives in China, India, Japan, Korea, Malaysia
- Thousands of courses available in Asian languages: Chinese, Japanese, Korean, Thai

Explore over 748 courses, learn with 474,785 students

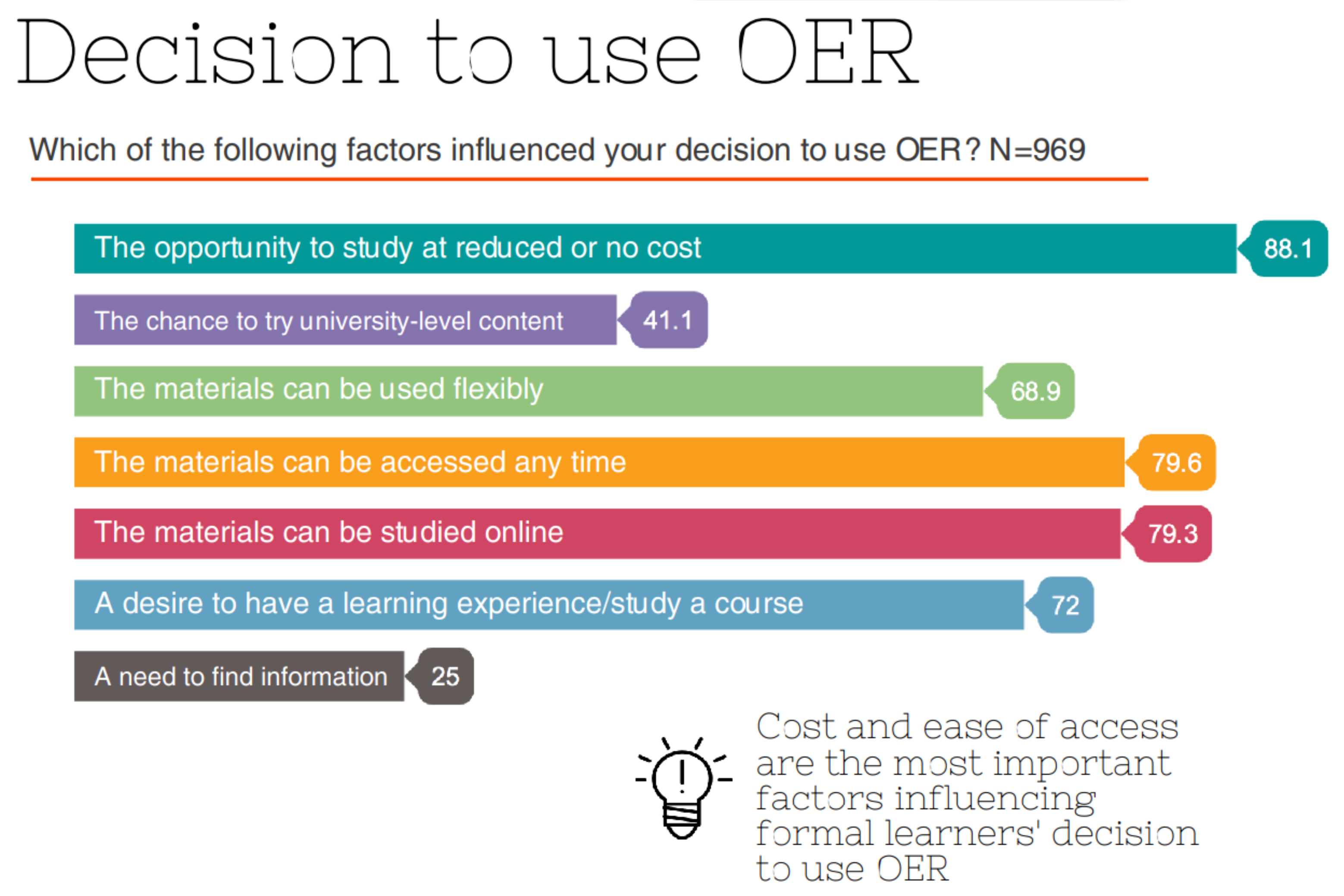
Open Educational Resources (OER)

Teachers’ perspective: China

I have no time to develop OER	3.78
I don’t know how to develop OER	3.76
I don’t know the value of developing OER	2.61
I have no incentive to develop OER	3.2

Source: Guo et al (2015). Chinese Faculty Members’ Open Educational Resources (OER) Usage Status and the Barriers to OER Development and Usage, iJET, 10(5). Retrieved from http://dx.doi.org/10.3991/ijet.v10i5.4819

Learners’ perspective:



Source: OER Hub, OER data report 2013-2015.

Kind of Reforms Needed

Skills and short courses

Learners can move from education to society and back

The Faculty to become Lifelong Learners -- focus on new modes of delivery and pedagogy

Multi-versity: term introduced by Clark Kerr (1963) http://openvault.wgbh.org/catalog/A_0DF915F352B044EFB1A31CCC71E8F9BF

Road Ahead

Are We Developing Appropriate Graduates?

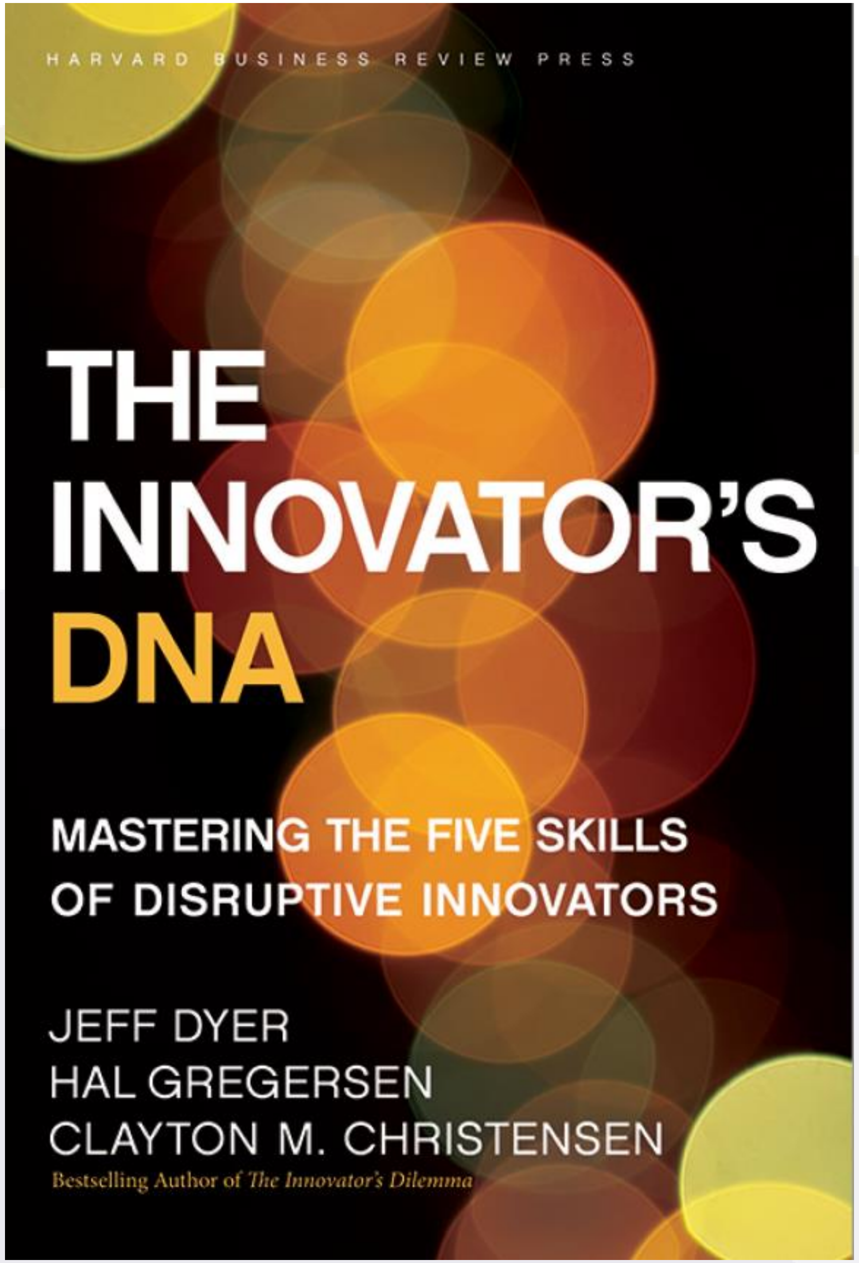
- Positive mindset and motivation
- Lifelong learner
- Multidisciplinary, analytical, ethical, innovative, disciplined, respectful, collaborative
- Employable and/or entrepreneurial
- Responsible global citizen

Do we have an Appropriate Institutional Culture?

- Leadership
- Data & evidence-based decision-making
- Supporting innovation

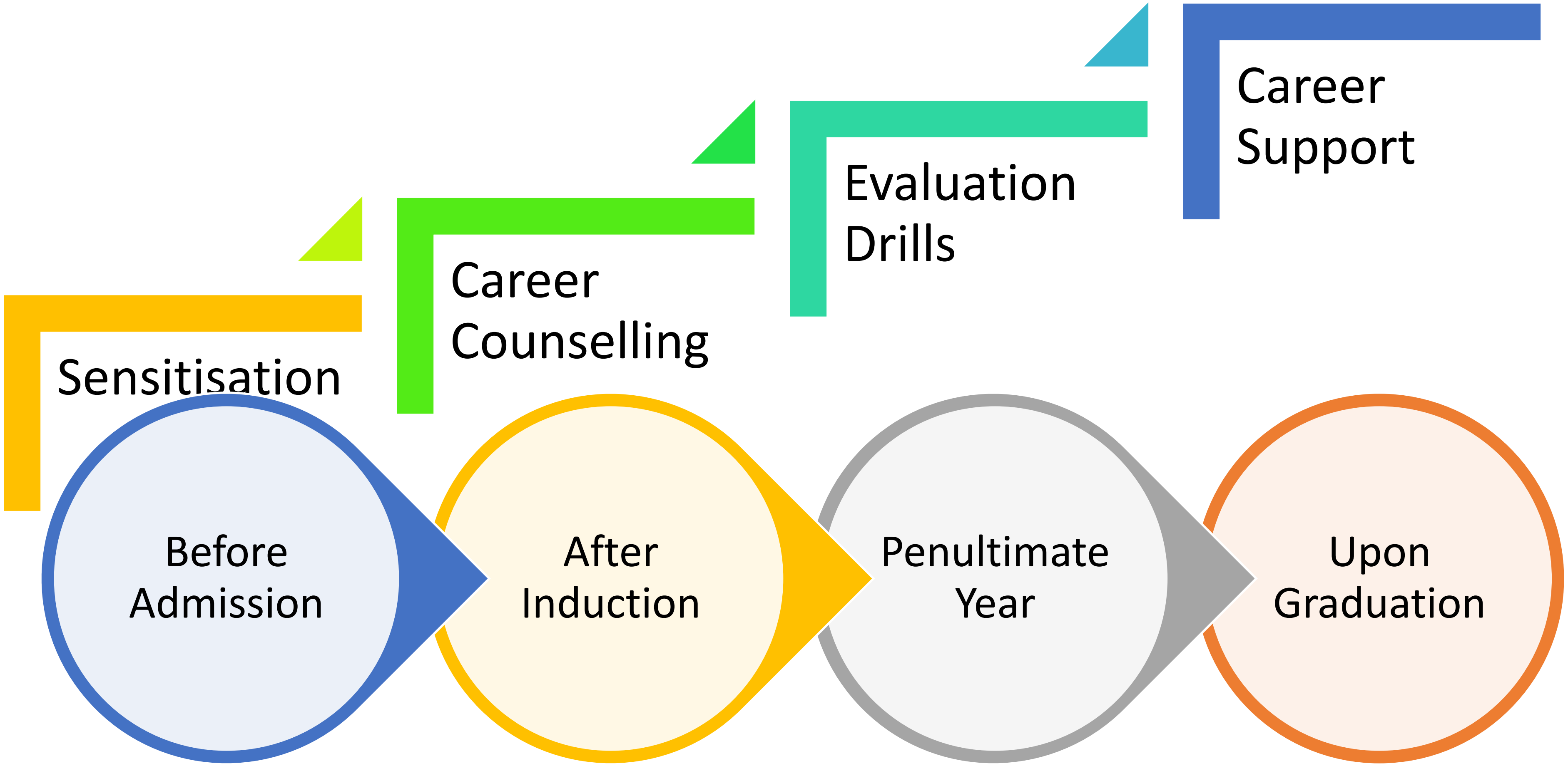
1. Skills for Innovation

- Questioning
- Observing
- Networking
- Experimenting



Source: Jeffrey H. Dyer, Hal B. Gregersen, Clayton M. Christensen (2009), Harvard Business Press

2. Employability Pathways

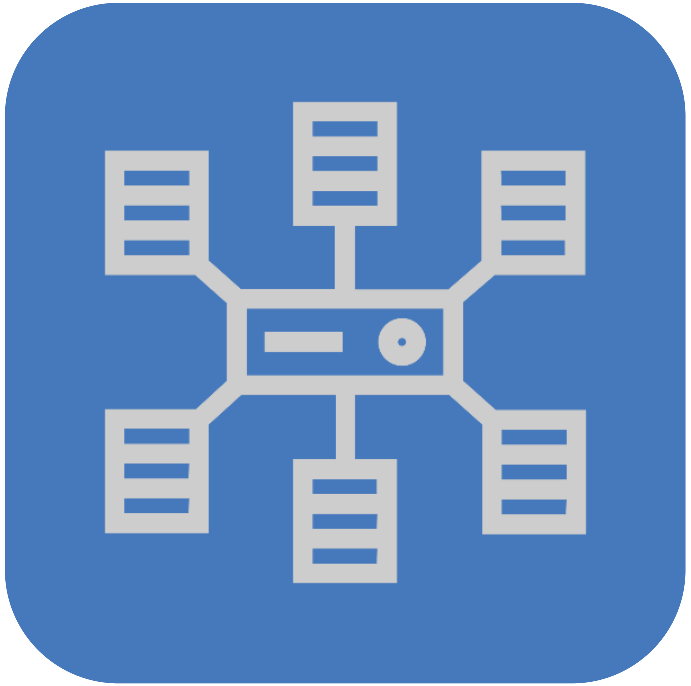


3. Integrate formal, informal and non-formal learning

Informal	• Learner led • Not evaluated • Tacit knowledge
Non Formal	• Structured • Not usually evaluated
Formal	• Teacher Led • Sequential • Evaluated

Three Key Literacies

Human



Data

Technological

Source: Joseph Aoun (2017): Robot-proof, MIT Press, https://mitpress.mit.edu/books/robot-proof

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