

**CHANGING
LANDSCAPES
OF HIGHER
EDUCATION**

- Home
- Organisation
- General Assembly
- Board
- Secretariat
- Member Agencies
- Candidate Members
- News
- Events
- Past Events
- Projects
- Past Projects
- Publications
- Main Documents
- ENQA and the Bologna Process
- Co-operation with Stakeholders
- Contact Information
- Links

 Search

About ENQA

ENQA, the European Association for Quality Assurance in Higher Education, disseminates information, experiences and good practices in the field of quality assurance (QA) in higher education to European QA agencies, public authorities and higher education institutions.

The European Network for Quality Assurance in Higher Education was established in 2000 to promote European co-operation in the field of quality assurance. In November 2004 the General Assembly transformed the Network into the **European Association for Quality Assurance in Higher Education (ENQA)**. The idea for the association originates from the European Pilot Project for Evaluating Quality in Higher Education (1994-95) which demonstrated the value of sharing and developing experience in the area of quality assurance. Subsequently, the idea was given momentum by the [Recommendation of the Council \(98/561/EC of 24 September 1998\) \(pdf\)](#) on European co-operation in quality assurance in higher education and by the [Bologna Declaration](#) of 1999.

Membership

Membership of the association is open to quality assurance agencies in the signatory states of the Bologna Declaration (see section 3 of the [Regulations \(pdf\)](#) for details). The membership fee is 2.000 Euro per annum. A total of 42 quality assurance agencies and associations of higher education have so far joined the association. The inquiries regarding the ENQA membership can be addressed to the ENQA secretariat.

[Membership application form \(doc\)](#)

ENQA services and benefits

As an ENQA member your agency will have the following benefits:

- information dissemination on recent developments in the evaluation of higher education through ENQA website and [publications](#)
- access to training [workshops](#) and advisory support
- participation in the thematic activities through [seminars](#) and [special projects](#)
- contacts to European quality assurance experts

News

[Stefanie Hofmann - In Memoriam](#)

[More news >>](#)

Events

[ENQA General Assembly, Brussels, 21-22 September 2006](#)

[More events >>](#)

Latest publications

[Transnational European Evaluation Project II \(TEEP II\)](#)

[More publications >>](#)

1ST TRANSNATIONAL EUROPEAN PILOT PROJECT (TEEP I) BY ENQA
(2002-2003) A EU-WIDE QUALITY EVALUATION SCHEME.

TRENDS

OPPORTUNITIES

CHALLENGES

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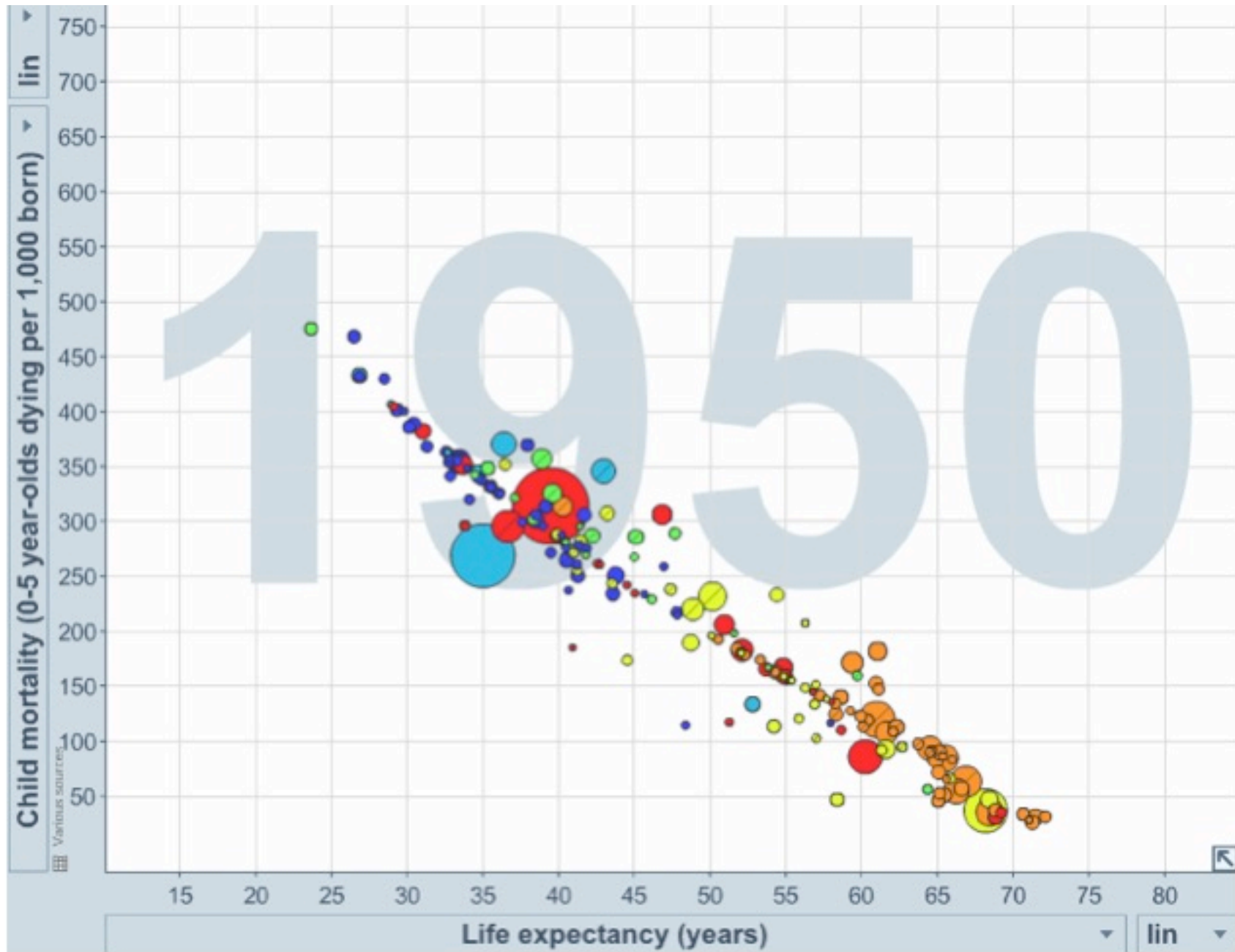
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**WE LIVE
LONGER**





Life expectancy varies across major areas and income groups.

SCARCITY

TO

ABUNDANCE

SKILLS MISMATCH

Projected skills gap in 2020 : a striking imbalance

40 million
job vacancies requiring
tertiary education



90 million
unemployed or underemployed
medium and low-skill workers

THE FUTURE OF WORK IS

* (YOUR ANSWER HERE)

exciting

** adjective*



**AI (45%
REPLACEMENT)**

INDUSTRY 4.0

Sensors - IoT - Networks - Apps - Automation - Monitoring - Smart Products



Industry 4.0: Exploring the world of connected enterprises

<https://www.youtube.com/watch?v=ktcRXyE8SaY>

**DIVERSIFICATION
ACCELERATION
OF KNOWLEDGE**

**INTERNET A
DISRUPTOR OF
H.I.E.D.**

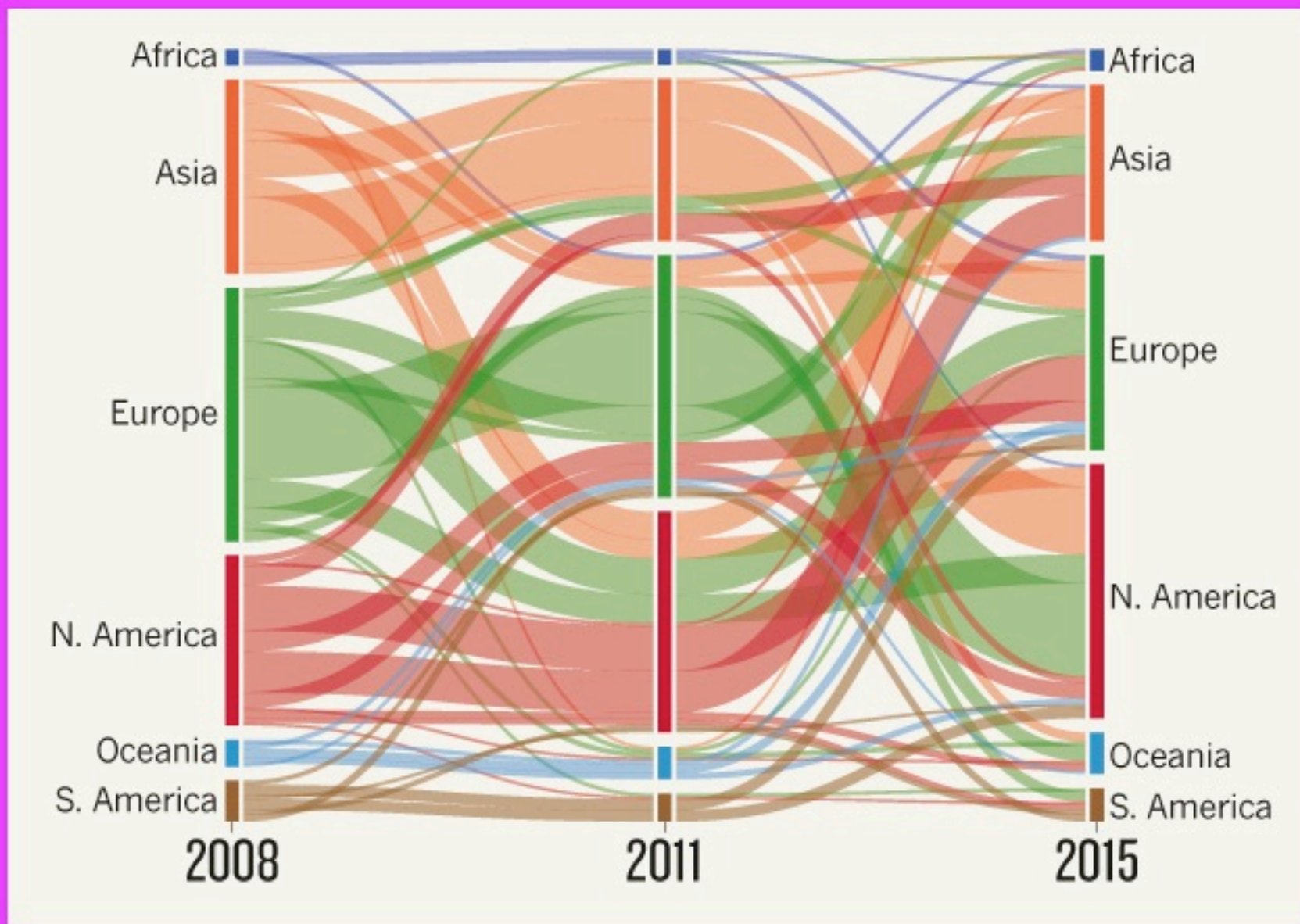


**HI.ED. IS MORE
CONNECTED
THAN EVER**

An aerial night photograph of a city, likely Dubai, showing a complex multi-level highway interchange with numerous overpasses and ramps. The roads are illuminated with warm yellow lights, and the surrounding urban landscape includes several tall skyscrapers and smaller buildings, some of which are lit up. The word "CONNECTED" is superimposed in large, bold, pink capital letters across the center of the image. The entire image is framed by a solid pink border at the top and bottom.

CONNECTED

**KNOWMADS &
FLEXIBLE
TIME/SPACE**



**UNIVERSITIES
FACE TOO
MANY GOALS**



MANY GOALS

**LARGER
DEMAND OF
HI.ED.**



Nearly 1/3 of the world's population is under 15. Today there are 165 M people enrolled in tertiary education. Projections: Participation will peak at 263 M (2025).

Accommodating the additional 98 M students would require more than four major universities (30,000 students) to open every week for the next 15 years.

Sources:

1. ISCED levels 5 & 6 UNESCO Institute of Statistics figures
2. British Council and IDP Australia projections

MARKET FOR COMPETENCIES



Ben Halperin: Turning the Udacity Nanodegree into a Job

https://www.youtube.com/watch?v=quSLW44_t1s



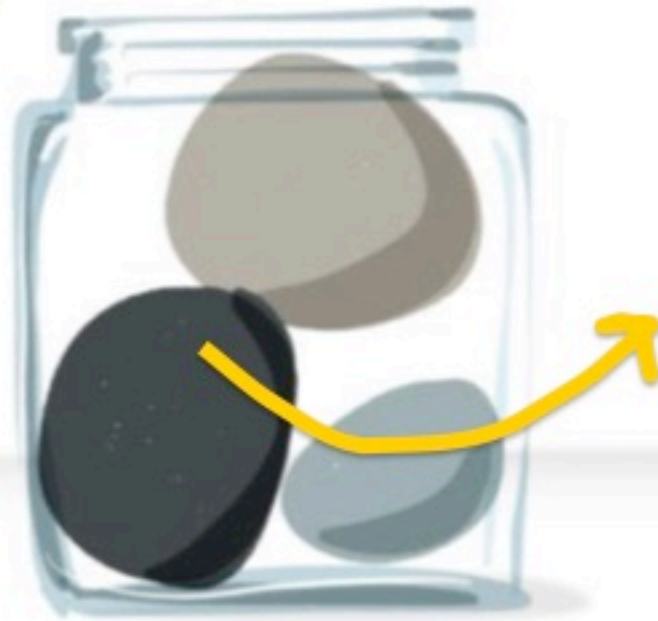
NEW CAREERS

THE WORLD'S MOST IN DEMAND PROFESSIONS

Across the developed countries of the world, skilled professionals are in high demand. Software engineers are needed in 24 countries, nurses are needed in 18, while 11 countries report a shortage of accountants. Explore the chart below to see which occupations are most in demand across the world and discover which skills are needed.



NEW CREDENTIALS



OLD SCHOOL
CREDENTIALS



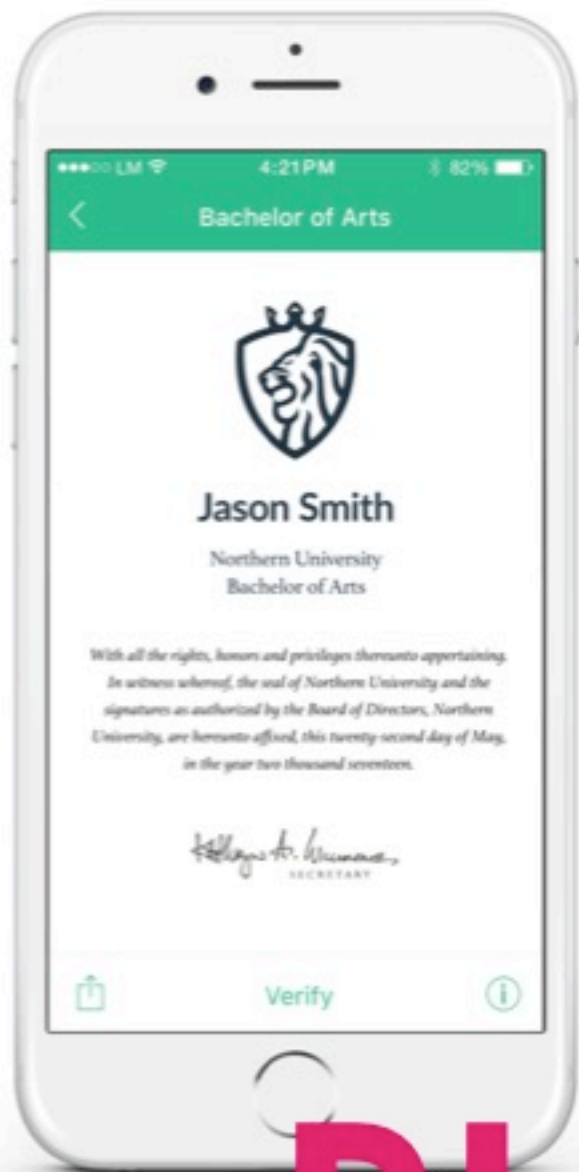
NEW SCHOOL
CREDENTIALS

cognitiveclass.ai/badges

IBM Open Badge Program:
IT nanocredentials

<https://www.youtube.com/watch?v=HhhfGw03BJ4>





Verify Certificate

Please enter the certificate URL below to verify its validity.

<https://auto-certificates.yourname.edu/certificate/2380d326-a402>

Verify



Bachelor of Arts

Jason Smith



Verified

Public Key: 1H1TT15428JDS7HDFGKKAGD9e1019R1

Blockchain Address: 47651a51eaTR51g7156hCKee12980w7EA18ee18761

BLOCKCERTS

**STUDENTS ARE
CHANGING**



HUMAN Extended version VOL1

<https://www.youtube.com/watch?v=vdb4XGVTHKE>

**QUALITY A
MOVING
TARGET**

OPPORTUNITIES

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**THE ECONOMY
VALUES
CONNECTIONS**

CROSS- DISCIPLINE



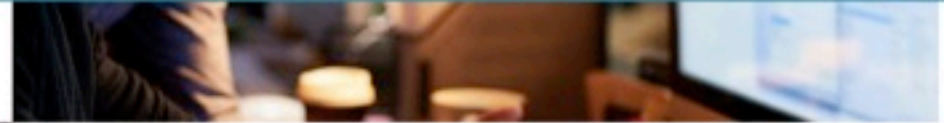
A large crowd of people is walking at night towards a stadium with a large archway. The scene is illuminated by streetlights and the stadium's lights. The crowd is dense and fills the street. The stadium's archway is a prominent feature in the background. The overall atmosphere is one of a major event or gathering.

CROSS-

DISCIPLINE

EXPERIENTIAL LEARNING

“last-mile training”



Academic Partnerships

Let us help your students gain real-world experience, supplementing their skills in enterprise-level, niche, and next-gen technologies so they can land a job faster.

[GO TO UNIVERSITIES >](#)

Want Coding Experience?

Gain experience in the latest enterprise-level programming skills by working on real-world project scenarios through our free online program.

[GO TO LEARN TO CODE >](#)



revature.com

OPENNESS

OPENNESS



DIGITAL PARADOX

The Learning Circle Model: Collaborative Knowledge Building



learningcircles.p2pu.org

HUMANICS



Humanics (a new discipline) Prepare students to compete in a labour market where AI works alongside human professionals.

ROBOT-PROOF



HIGHER EDUCATION
IN THE AGE OF
ARTIFICIAL INTELLIGENCE

JOSEPH E. ADUN


[a robot-proof education]

New literacies: *Data*Technological*Human[ities]

Cognitive Capacities:

- ☞ System thinking ☞ Entrepreneurship
- ☞ Cultural Agility ☞ Critical Thinking

**NEW
MEASURES:
ALTMETRICS &
ANALYTICS**



Improving Learning with Data:
**Lessons Learnt from a
Learning Analytics Conference**

Visual Analytics: Teachers can track and assess students “effort” in a practical way.

Nagy, R. P. (2016). Tracking and Visualising Student Effort: Evolution of a Practical Analytics Tool for Staff and Student Engagement. *Journal of Learning Analytics*, 3(2), 164-192.

**LINKING
INFORMAL TO
FORMAL
LEARNING**



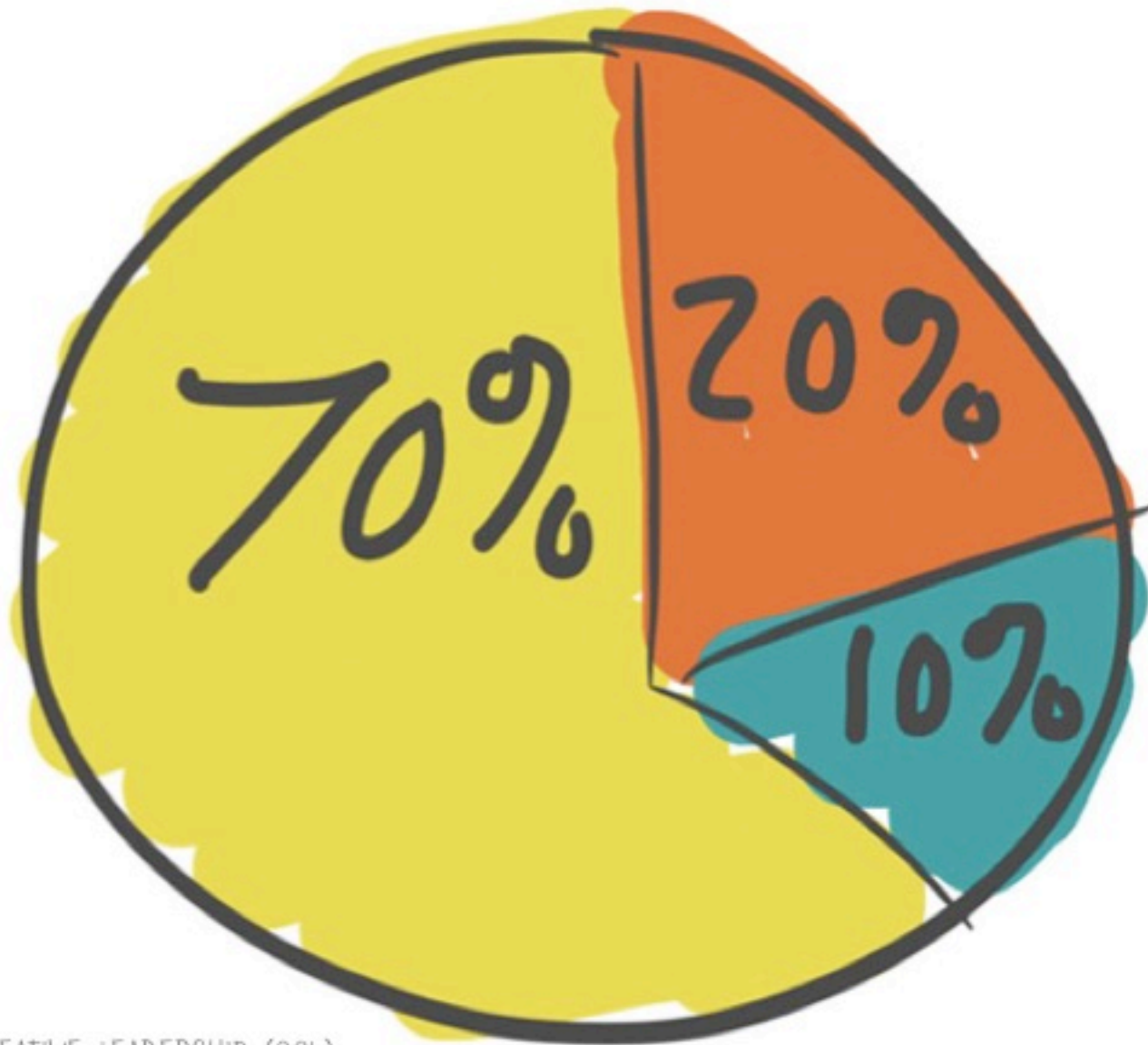
A NEW KIND OF U.™

Competency-Based Learning at WGU: What Is It?

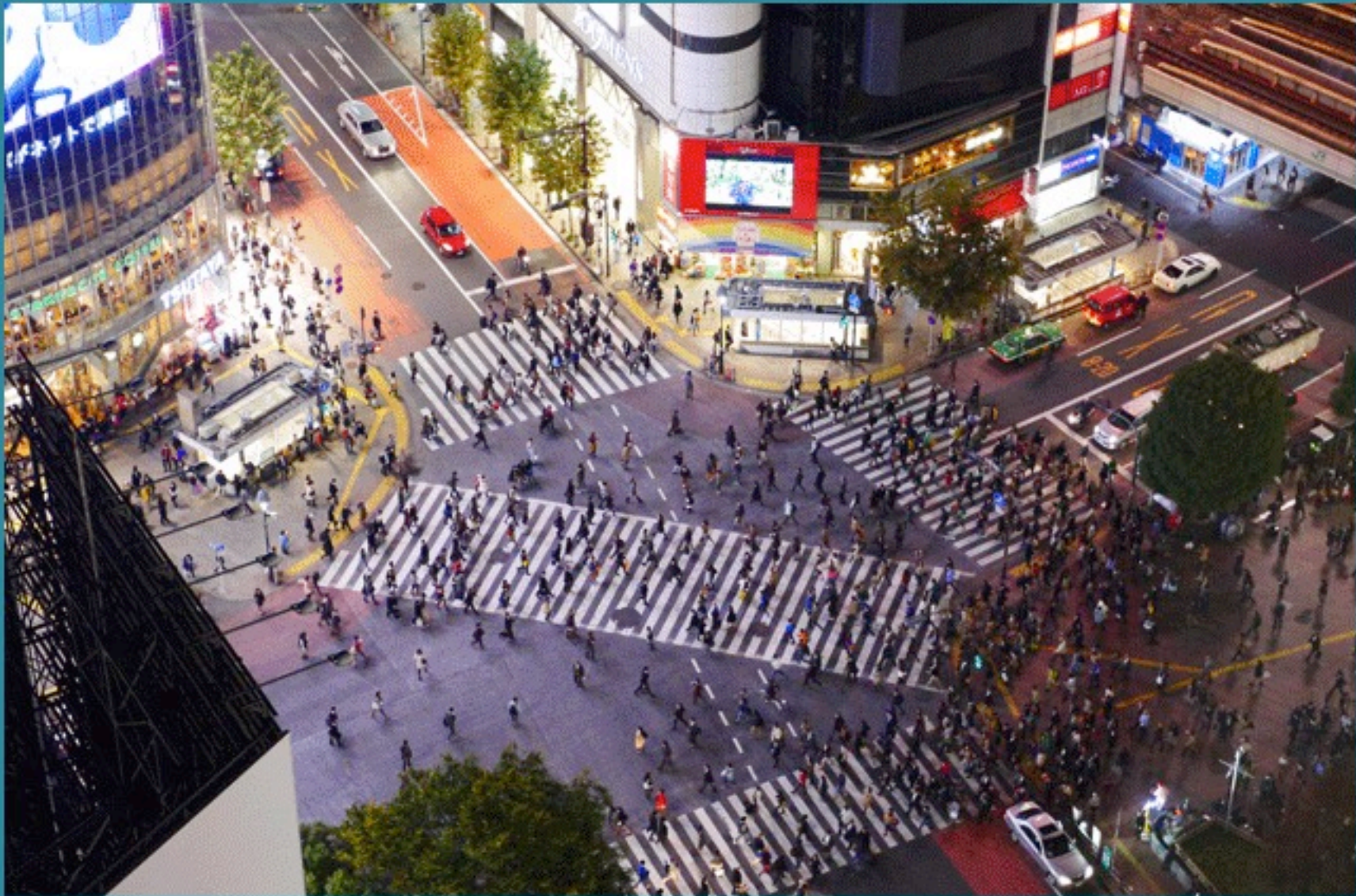
<https://www.youtube.com/watch?v=L4Z8vIDdGd4>

70:20:10

SELF-LEARNING - LEARNING ECOSYSTEMS
LEARNING "JUST IN CASE" VS "JUST IN TIME" B



**BROADER
UNDERSTANDING
OF IMPACT**



SEVEN CHALLENGES

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TRADITIONAL E-LEARNING CHALLENGED



LIFELONG LEARNING - RETOOLING



2010

Gen Z



2028

Secondary



2045

PhD



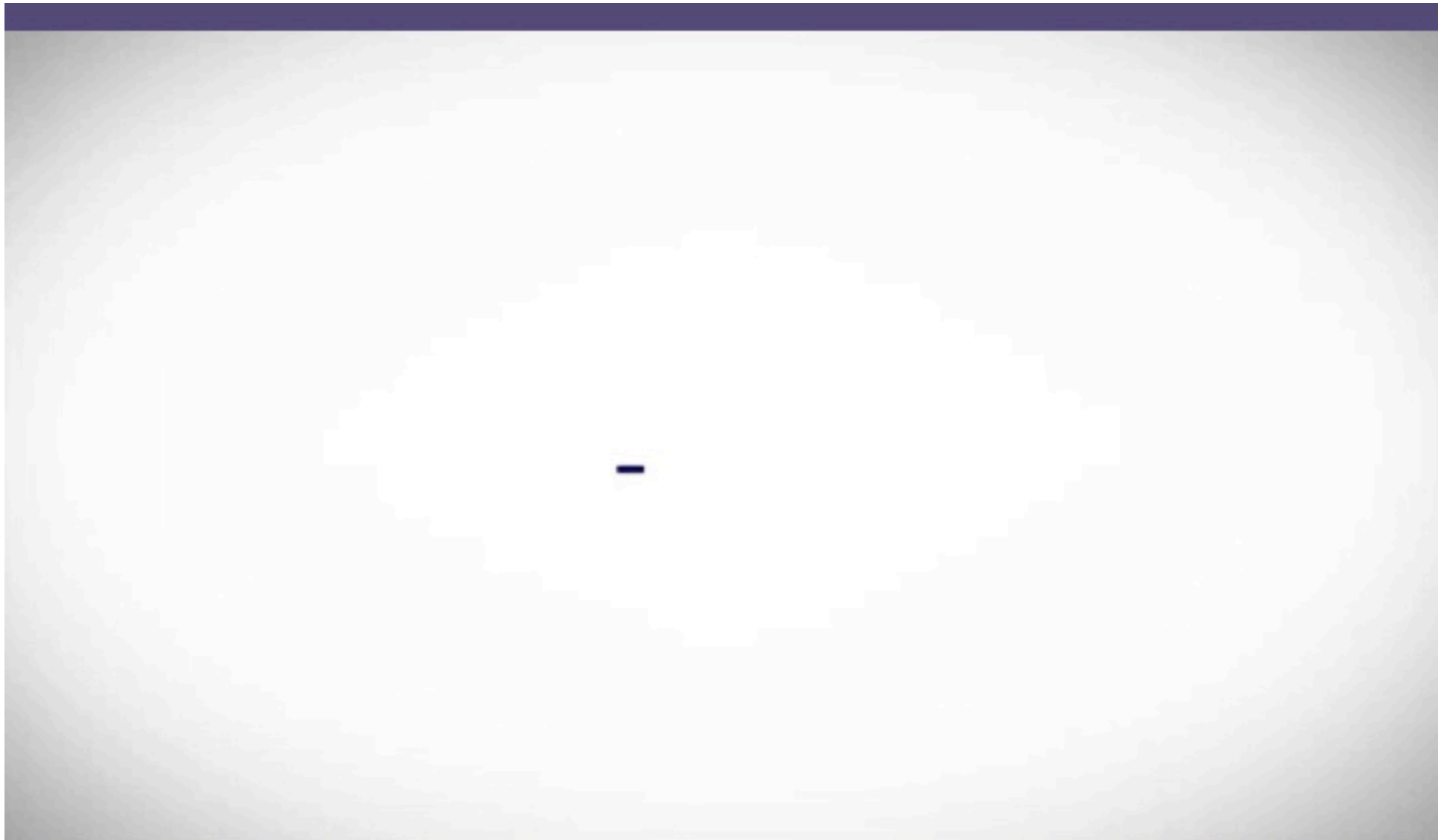
2075

2095

50 years

- Non-stop learning (post education)
- Over 30 years in the labour market
- Obsolescence vs Update skills?

DEGREE VS COMPETENCY BASED MODELS



Competency Based Learning

<https://www.youtube.com/watch?v=4eRjaBcvTSw>

DIGITAL AND NETWORK LITERACIES



NETWORK

Digital Citizen Identity
Ability to build and manage a healthy identity online and offline with integrity

Privacy Management
Ability to handle with discretion all personal information shared online to protect one's and others' privacy

Screen Time Management
Ability to manage one's screen time, multitasking, and engagement online with self-control

Critical Thinking
Ability to distinguish between true and false info, good and harmful content, and trustworthy and questionable contacts online

Cyberbullying Management
Ability to detect cyber-bullying situations and handle them wisely

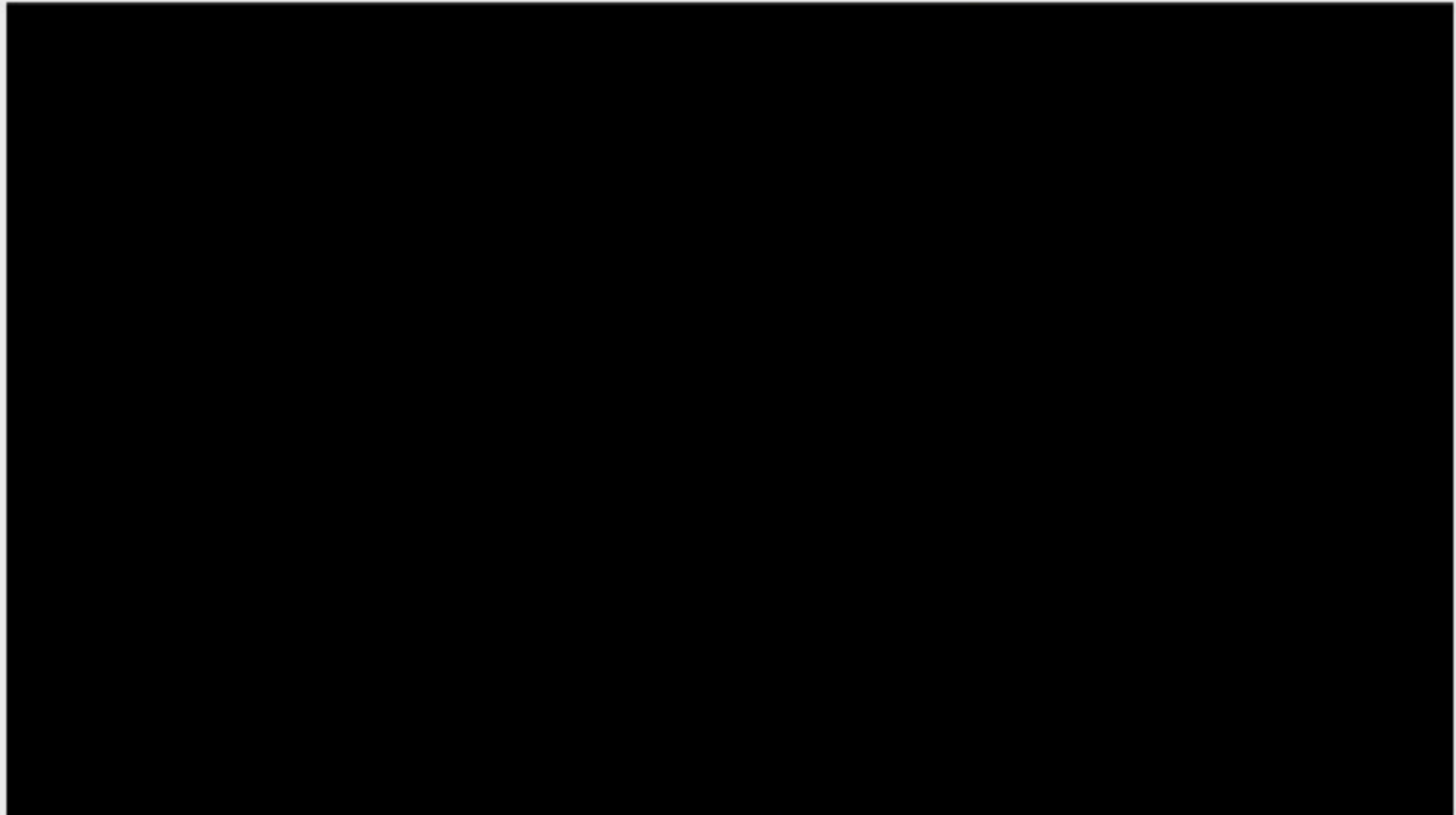
Cyber Security Management
Ability to protect one's data by creating strong passwords and to manage various cyber attacks

Digital Empathy
Ability to be empathetic towards one's own and others' needs and feelings online



FLEXIBLE CAREER PATHS

What is the MicroMasters Credential?



MicroMasters is a professional and academic credential for online learners from anywhere in the world. Learners who pass an integrated set of MITx graduate-level courses on edX.org, and one or more proctored exams, will earn a MicroMasters credential from MITx, and can then apply for an accelerated, on campus, master's degree program at MIT or other top universities.

MIT MicroMasters

<https://www.youtube.com/watch?v=KLdXhW3zk10>

CONNECT STEM & HUMANITIES



HUMANS?

THINKING GLOBALLY



**FLEXIBILITY
OPENNESS
MULTI-
STAKEHOLDER**

d'akujem Tak Dankie kiitos
Спасибо תודה धन्यवाद terima kasih
Asante Gracias شكرا mulțumesc hvala
salamat 謝謝 Thank you Danke Hvala
ありがとう Obrigado Merci Grazie 谢谢
dank u ευχαριστώ Благодаря Děkuji
ačiū Tack хвала Sağol تشکر از شما
Дзякуй 감사합니다 dziękuję Спасибі
paldies teşekkür ederim তোমাকে ধন্যবাদ

@cristobalcobo

