

E-Learning and Distance Education

South Asia Higher Education Symposium:
New Regional Approaches

23-28 April, 2019, Istanbul, Turkey
Gard Titlestad, Director
Nordic Insight

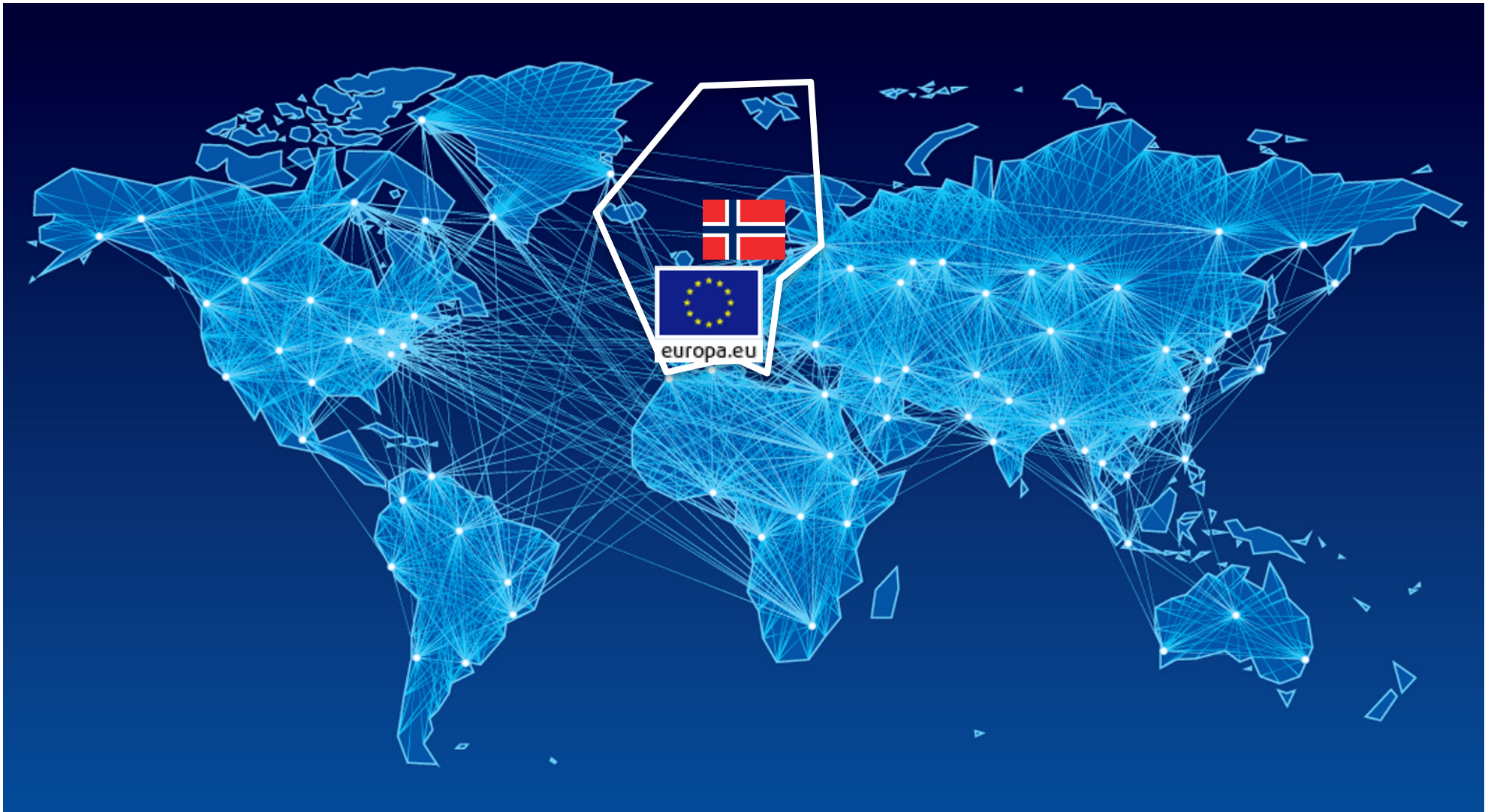
Member of the Governing Board

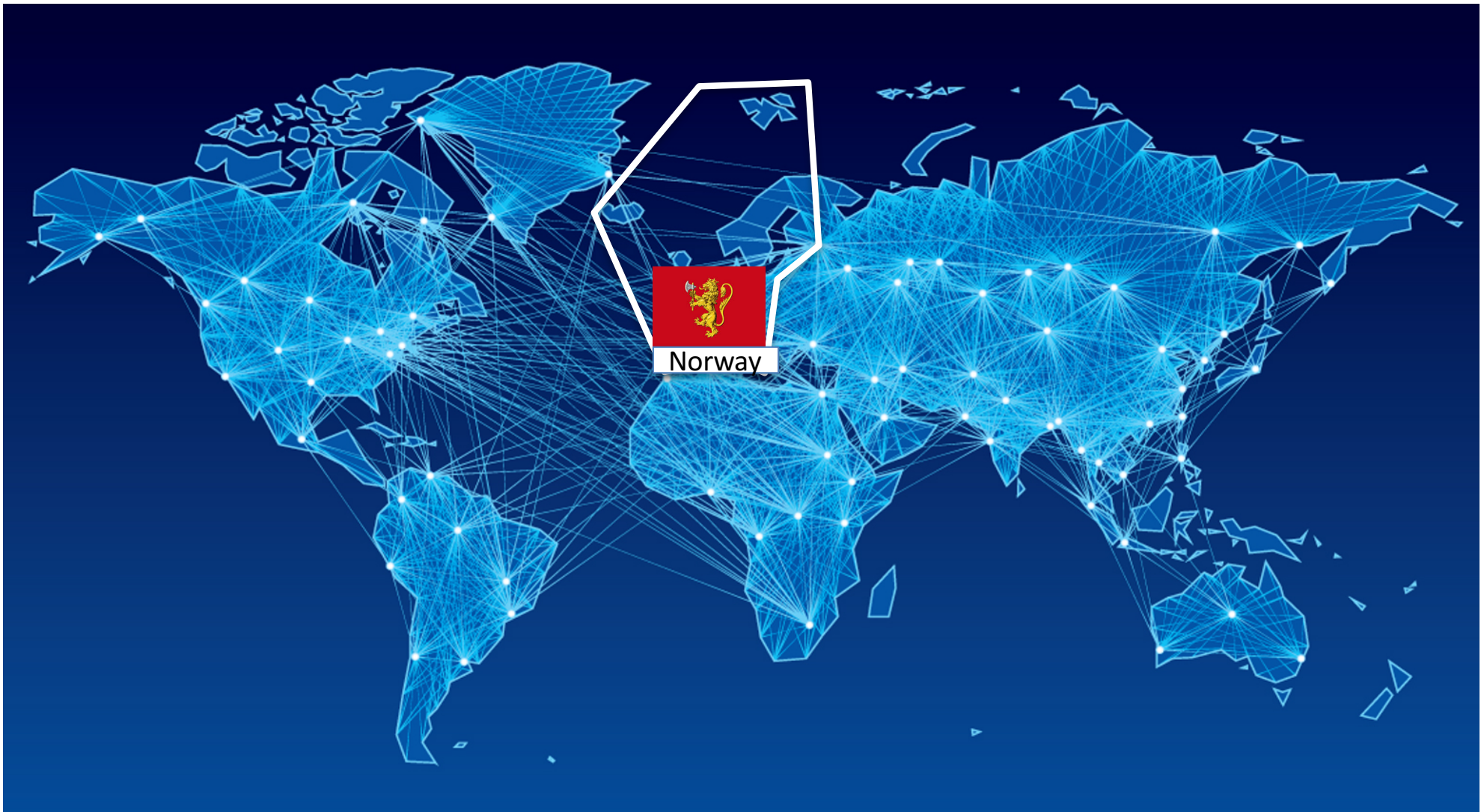
Outline

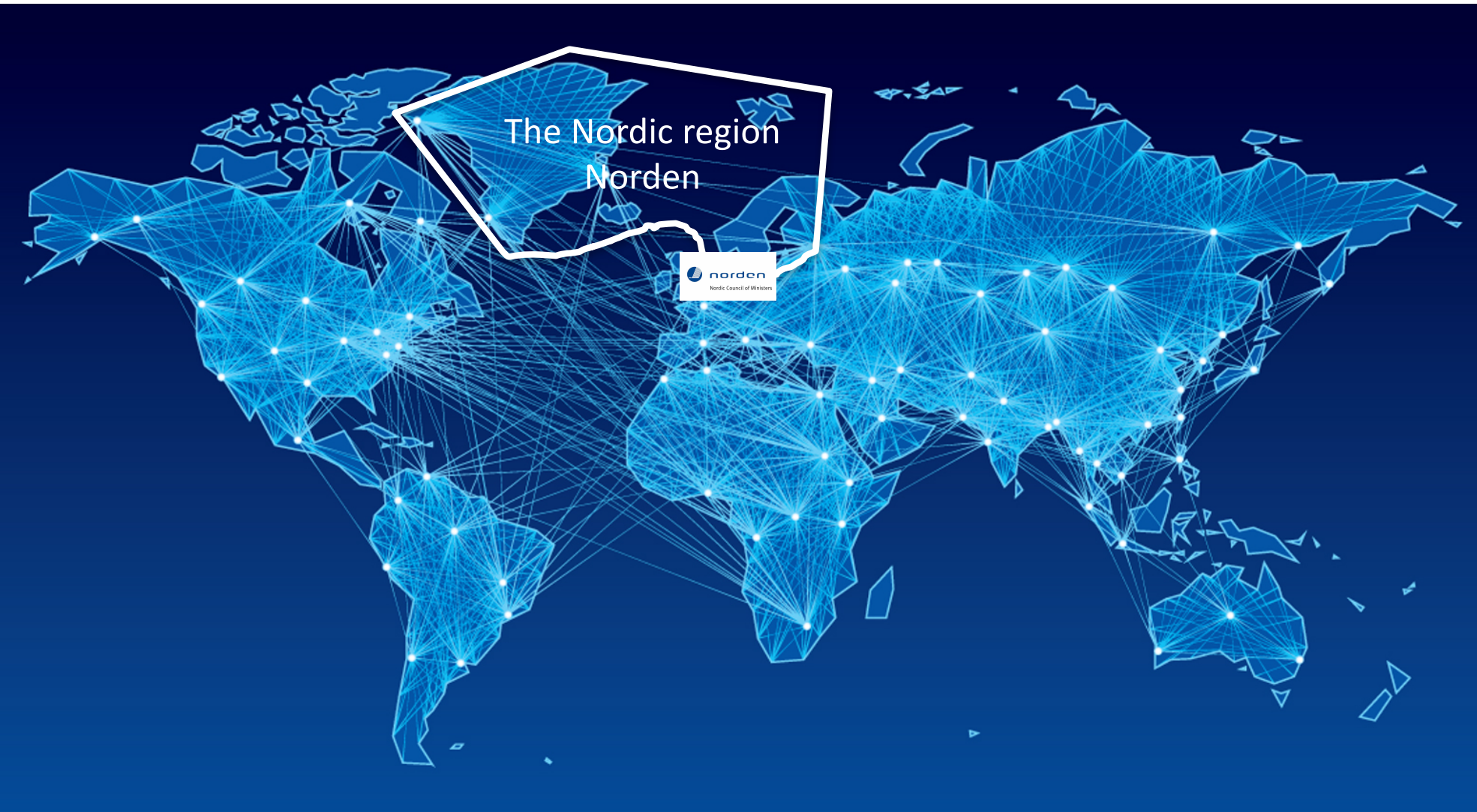


- Background and Why?
- Inclusive and equitable quality education and lifelong learning for all
- A glimpse on indicators
- The process, framework, tools and trends
- Conclusion

A birds eye – a helicopter perspective

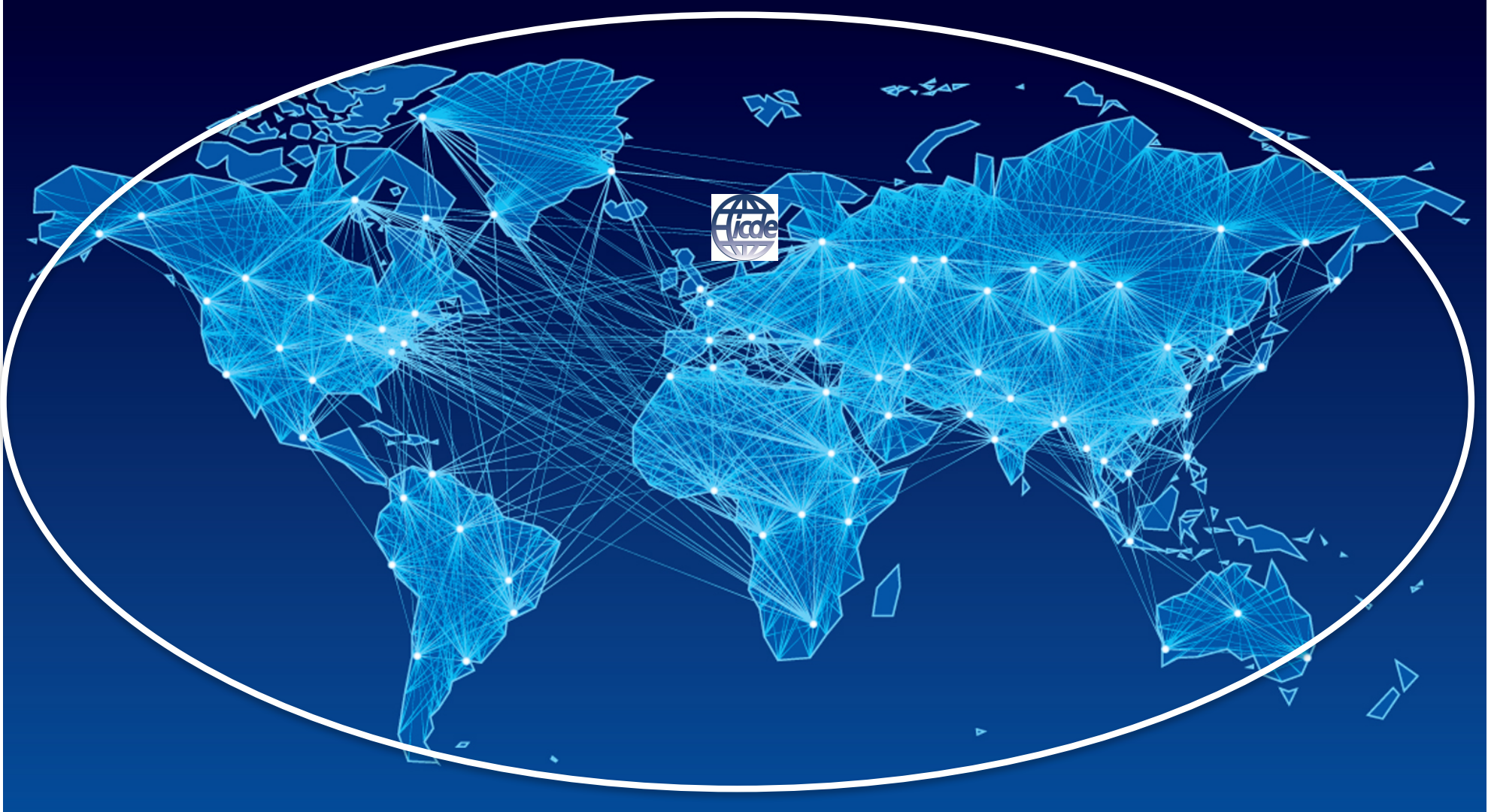






The Nordic region
Norden





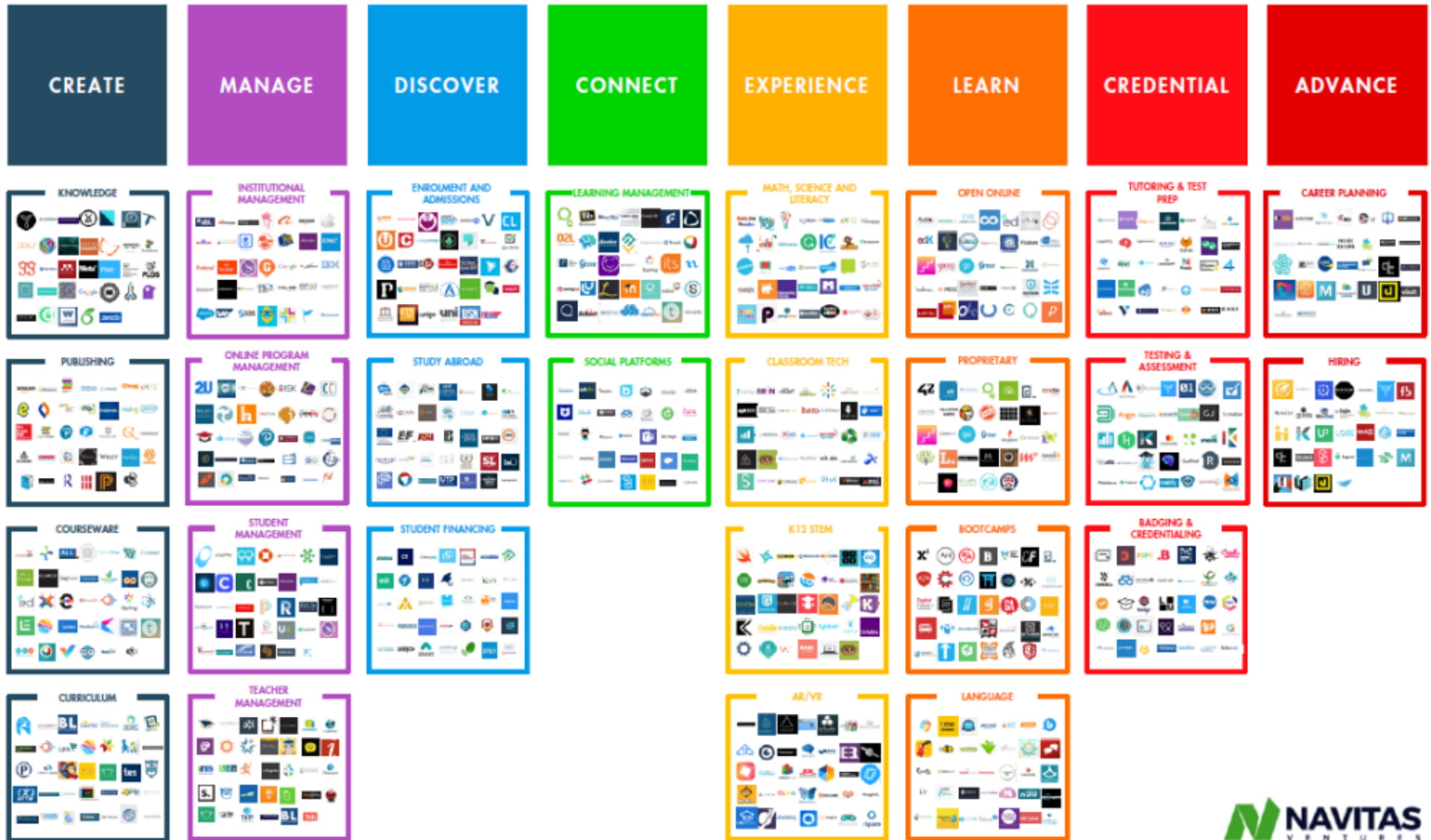




Under - innovated

GLOBAL EDTECH LANDSCAPE 3.0 MAPS 26 CLUSTERS OF 15,000 COMPANIES INTO EIGHT STEPS WE CALL THE NEXT GENERATION LEARNING LIFECYCLE

GLOBALEDTECHLANDSCAPE.COM



<https://www.navitasventures.com/insights/landscape/>



Artificial Intelligence Becomes More Human

ence of child learning forming AI

McKinsey&Company

MCKINSEY GLOBAL INSTITUTE

ARTIFICIAL INTELLIGENCE THE NEXT DIGITAL FRONTIER?

Leveraging the upcoming disruptions from AI and IoT

How Artificial Intelligence will enable the full promise of the Internet-of-Things



AI keynotes

International Forum on ICT and Education 2030

Provisional Programme

Seize digital opportunities, lead education transformation

Qingdao People's Republic of China 10-11 July 2017



DISCUSSION PAPER JUNE 2017

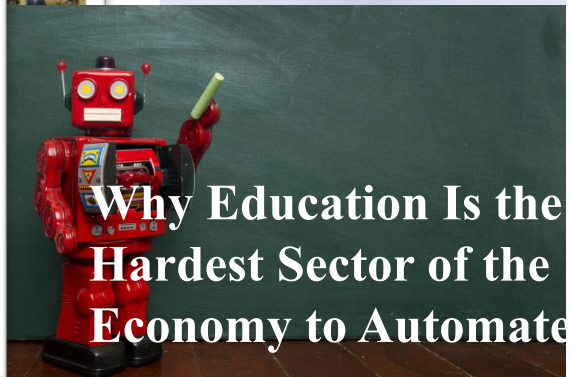
Ask me a question about the College or your studies.

When is the library open?

ASK


Ada Your digital assistant

The 1st floor library in the main building opens at 8.30am. The 2nd floor library in the main building and the library in the Construction and Arts building both open at 9am.



Workforce of the future

The competing forces shaping 2030

 www.pwc.com/people



Assisted Intelligence



Augmented Intelligence



Autonomous Intelligence

Today

Automating repetitive, standardised or

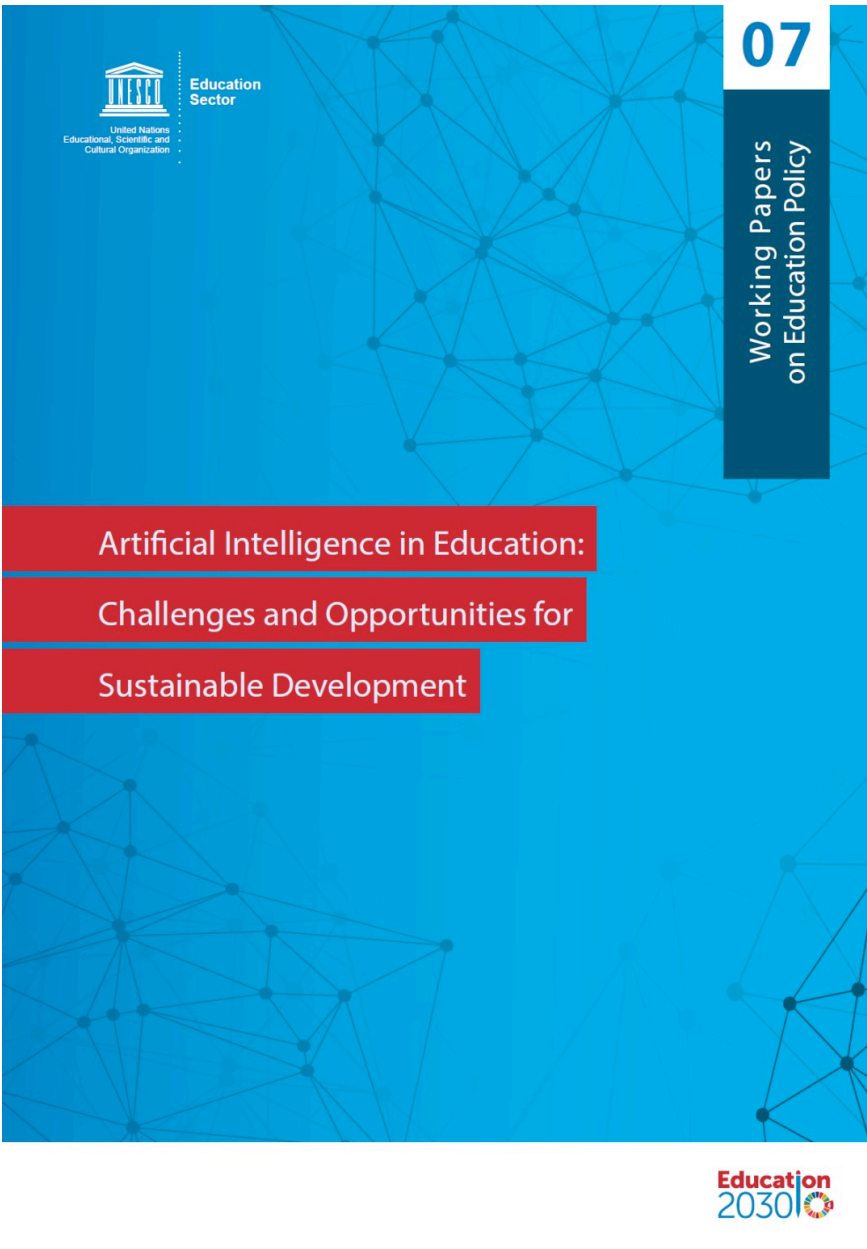
Emerging

Fundamental change in the nature of work. Humans and machines collaborate to make decisions.

Future

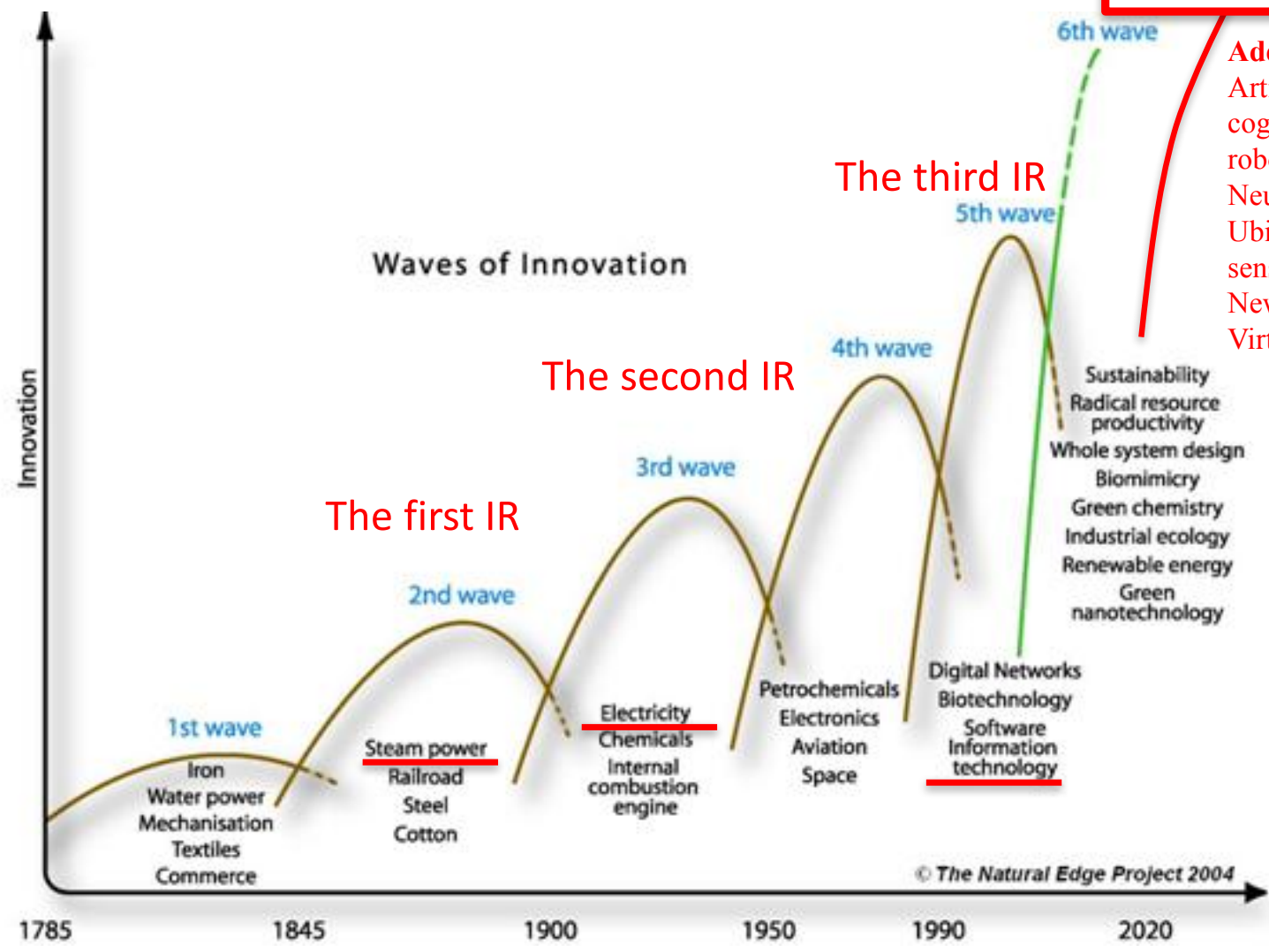
Adaptive continuous intelligent systems take over decision-making.

The future of humans at work is questioned.



Artificial intelligence in education: challenges and opportunities for sustainable development

The Fourth Industrial Revolution



Add now:
Artificial intelligence,
cognitive technologies and
robotics
Neurotechnologies
Ubiquitous presence of linked
sensors
New computing technologies
Virtual and augmented realities



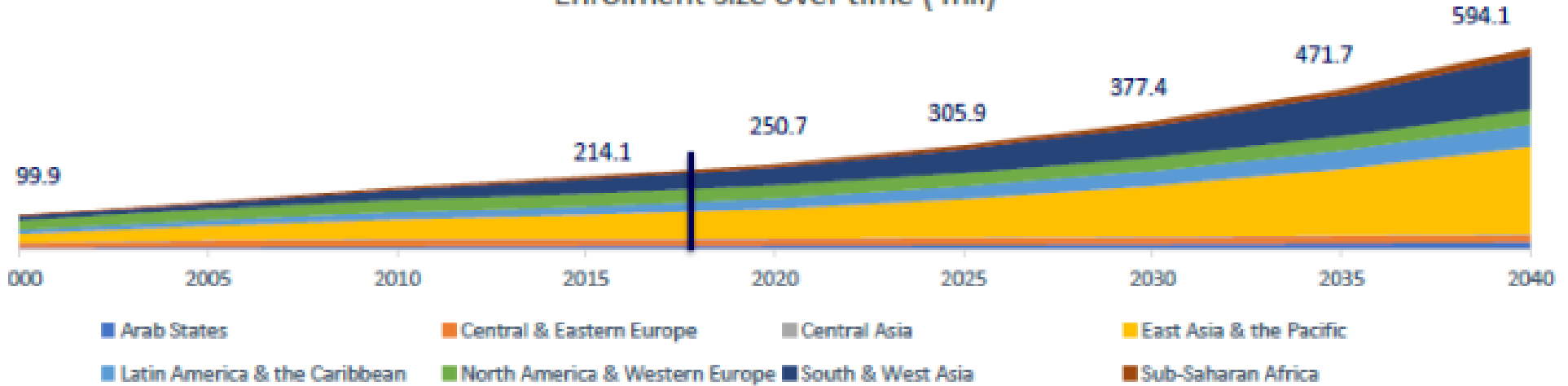
E-Learning and Distance Education

Why bother?

Higher education in numbers



Enrolment size over time ('mil)



https://www.academia.edu/36975860/Massification_of_higher_education_revisited

Return on investments

Private: 15.8% Social: 10.5%

For quality e.g. learning analytics

For the greater good





SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

- On 25 September 2015, the United Nations General Assembly formally adopted the universal, integrated and transformative 2030 Agenda for Sustainable Development, along with a set of 17 Sustainable Development Goals and 169 associated targets.



SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD



Education
2030



SUSTAINABLE DEVELOPMENT GOAL 4

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all



4.3 Equal access to technical/vocational and higher education

By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university

Incheon Declaration and Framework for Action

for the implementation of
Sustainable Development Goal 4

Ensure inclusive and equitable
quality education and promote lifelong
learning opportunities for all

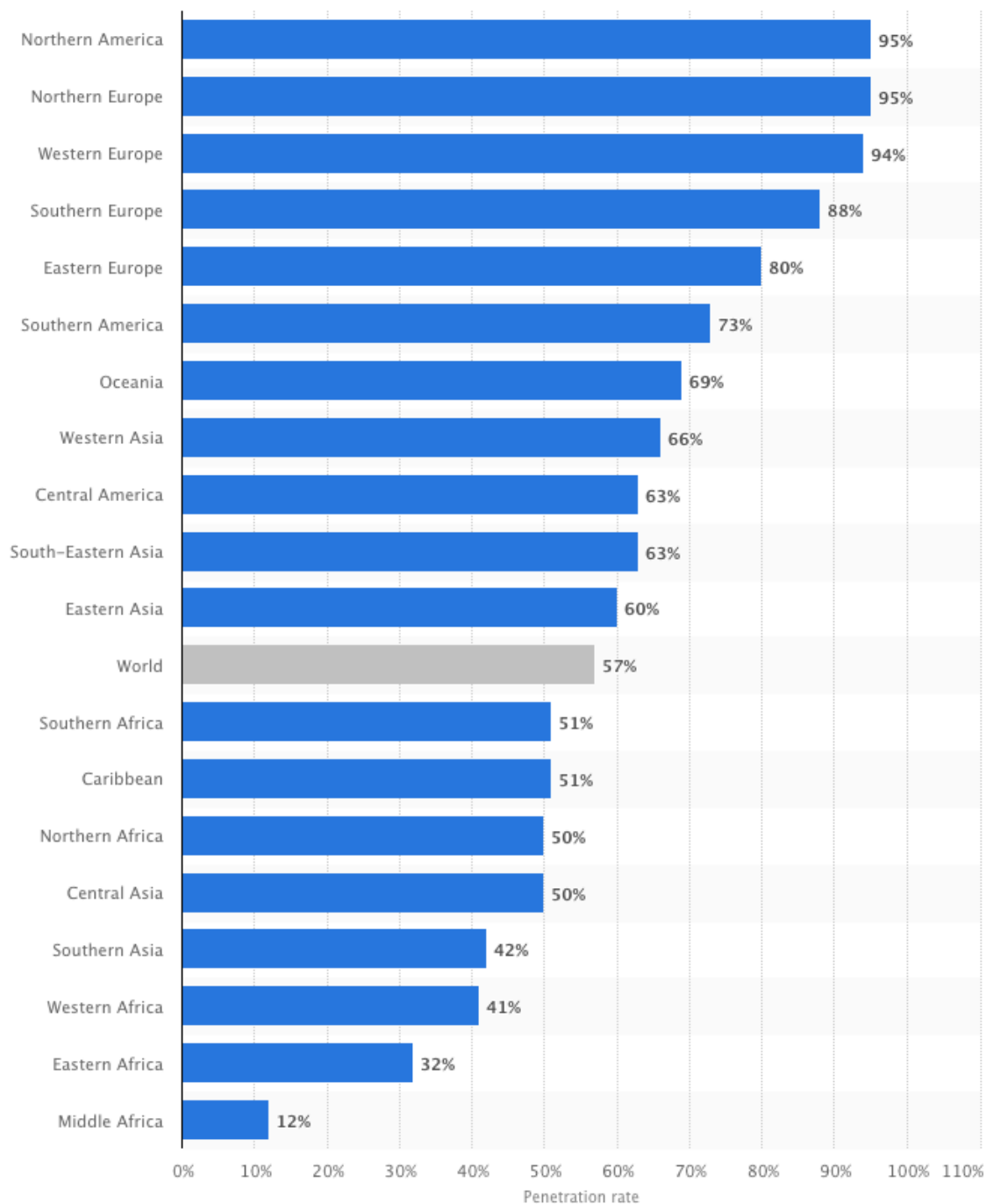


Target 3, point 43.:

A well-established, properly-regulated tertiary education system supported by technology, Open Educational Resources (OERs) and distance education modalities can increase access, equity, quality and relevance, and narrow the gap between what is taught at tertiary education institutions and what economies and societies demand. The provision of tertiary education should be progressively free, in line with existing international agreements.



Reflection: How can you overcome the main hurdles for mobile, online and blended learning?



Global internet penetration rate as of January 2019, by region

<https://www.statista.com/statistics/269329/penetration-rate-of-the-internet-by-region/>



ASIA INTERNET USE, POPULATION DATA AND FACEBOOK STATISTICS - MARCH 31, 2019

<u>Country</u>	Population (2019 Est.)	Internet Users, (Year 2000)	Internet Users 31-March- 2019	Penetration (% Population)	Users % Asia	Facebook 31-DEC-2017
<u>Afganistan</u>	37,209,007	1,000	6,538,124	17.6 %	0.3 %	3,200,000
<u>Bangladesh</u>	168,065,920	100,000	92,061,000	54.8 %	4.2 %	28,000,000
<u>Bhutan</u>	826,229	500	370,423	44.8 %	0.0 %	350,000
<u>India</u>	1,368,737,513	5,000,000	560,000,000	40.9 %	25.6 %	251,000,000
<u>Maldives</u>	451,738	6,000	340,000	75.3 %	0.0 %	320,000
<u>Nepal</u>	29,942,018	50,000	16,190,000	54.1 %	0.7 %	8,700,000
<u>Pakistan</u>	204,596,442	133,900	44,608,065	21.8 %	2.0 %	32,000,000
<u>Sri Lanka</u>	21,018,859	121,500	6,710,160	31.9 %	0.3 %	5,500,000

<https://www.internetworldstats.com/stats3.htm>



Open up!





Educational Resources



Open, Licensed Resources



+ 5 R

The 5R Permissions of OER

Retain

- Make and own copies

Reuse

- Use in a wide range of ways

Revise

- Adapt, modify, and improve

Remix

- Combine two or more

Redistribute

- Share with others



Ljubljana OER Action Plan 2017
adopted to support quality open
educational resources



**A UNESCO recommendation
expected autumn 2019**



Reflection: A South Asian Collaboration and alliance on OER?

(v) Facilitating international cooperation

15 (a) promoting and stimulating cross-border collaboration and alliances on OER projects and programmes, leveraging existing transnational, regional and global collaboration mechanisms and organizations. This should include joining efforts on collaborative development and use of OER as well as capacity building, communities of practice, joint research on OER, and mutual cooperative assistance between all countries regardless of their state of development;

<https://unesdoc.unesco.org/ark:/48223/pf0000367718>



Quality models in online and open education around the globe: State of the art and recommendations

The first global overview of quality models, offering insight and guidance for all involved in quality systems for online and open education.

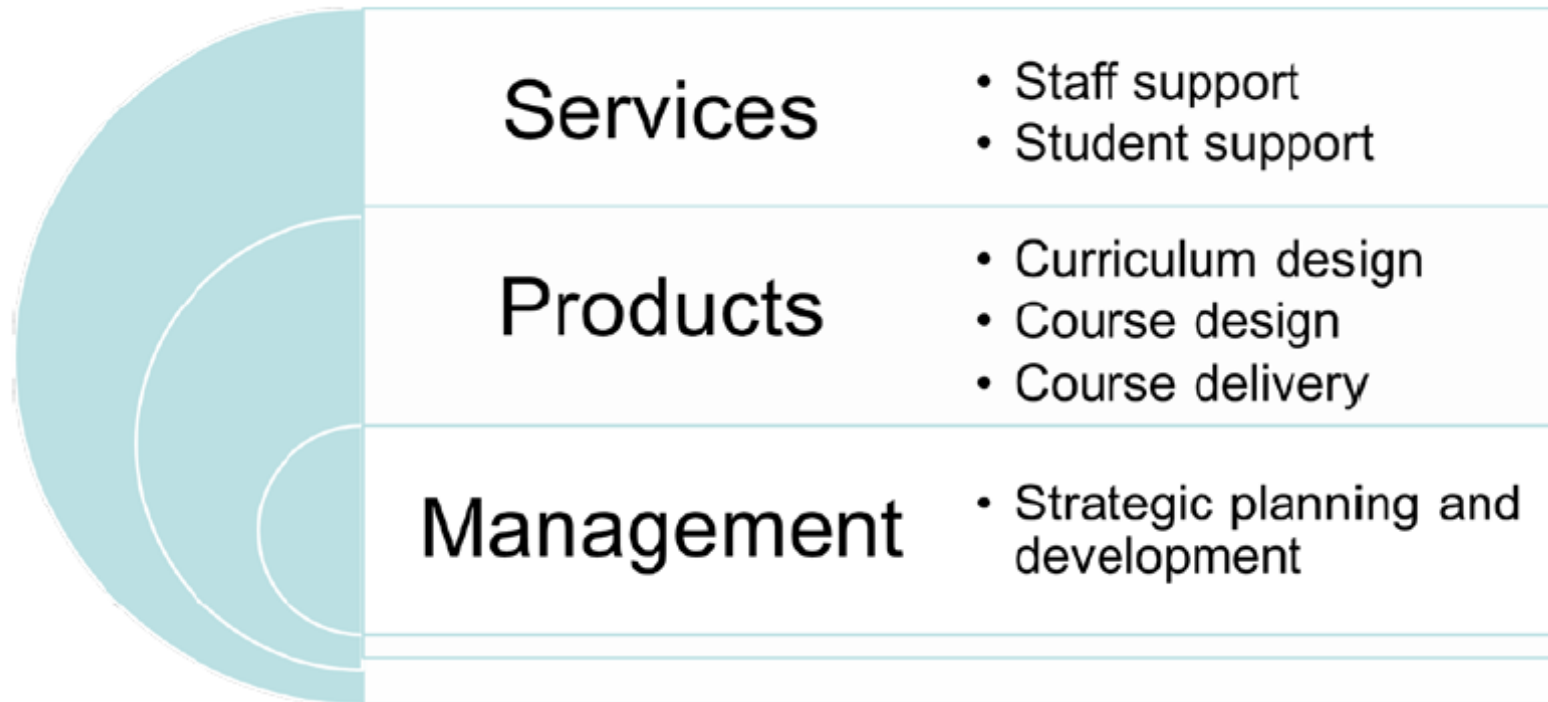
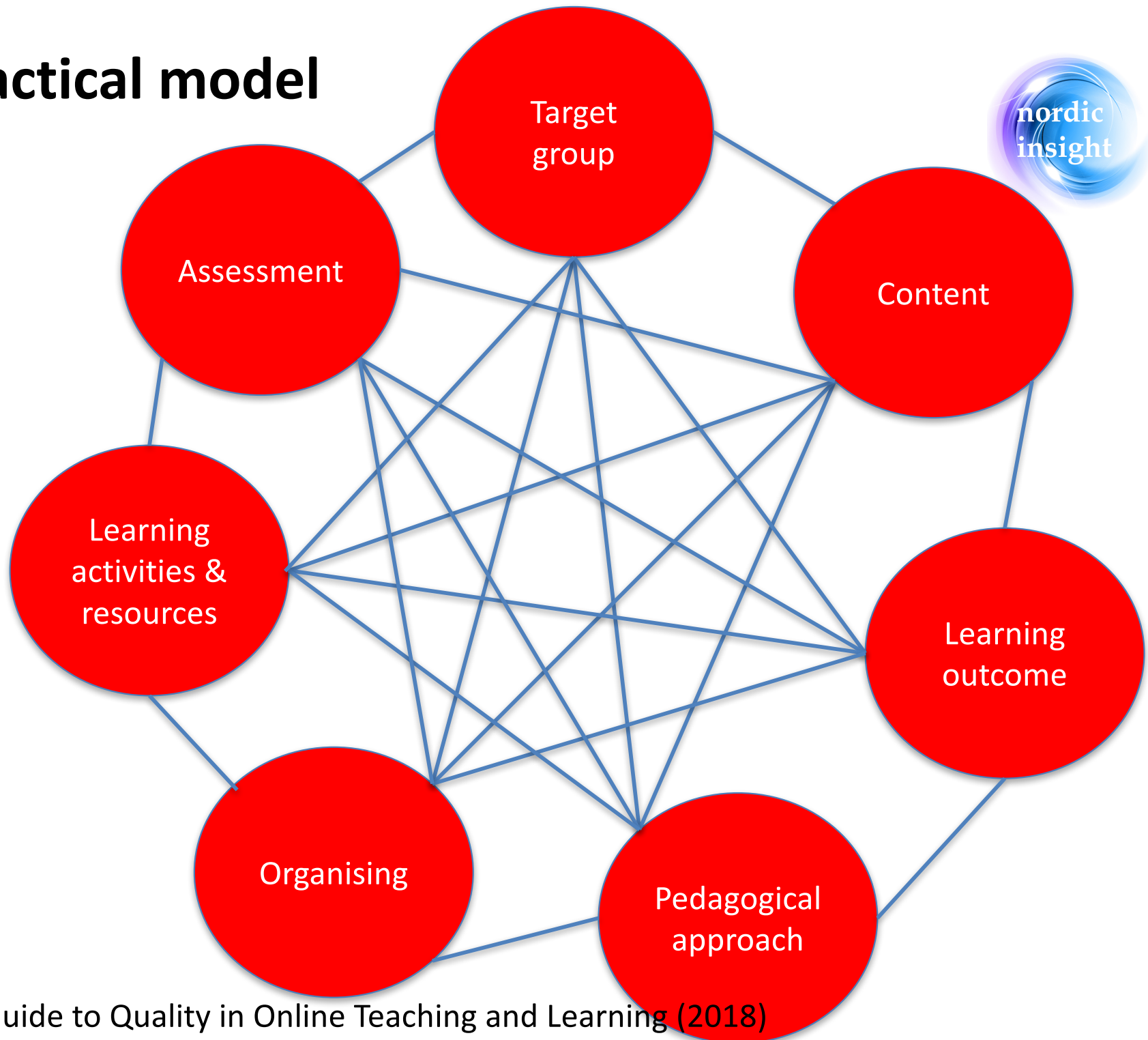


Fig 1 Three significant main areas related to quality in online learning, including e-learning (Ossiannilsson 2012)

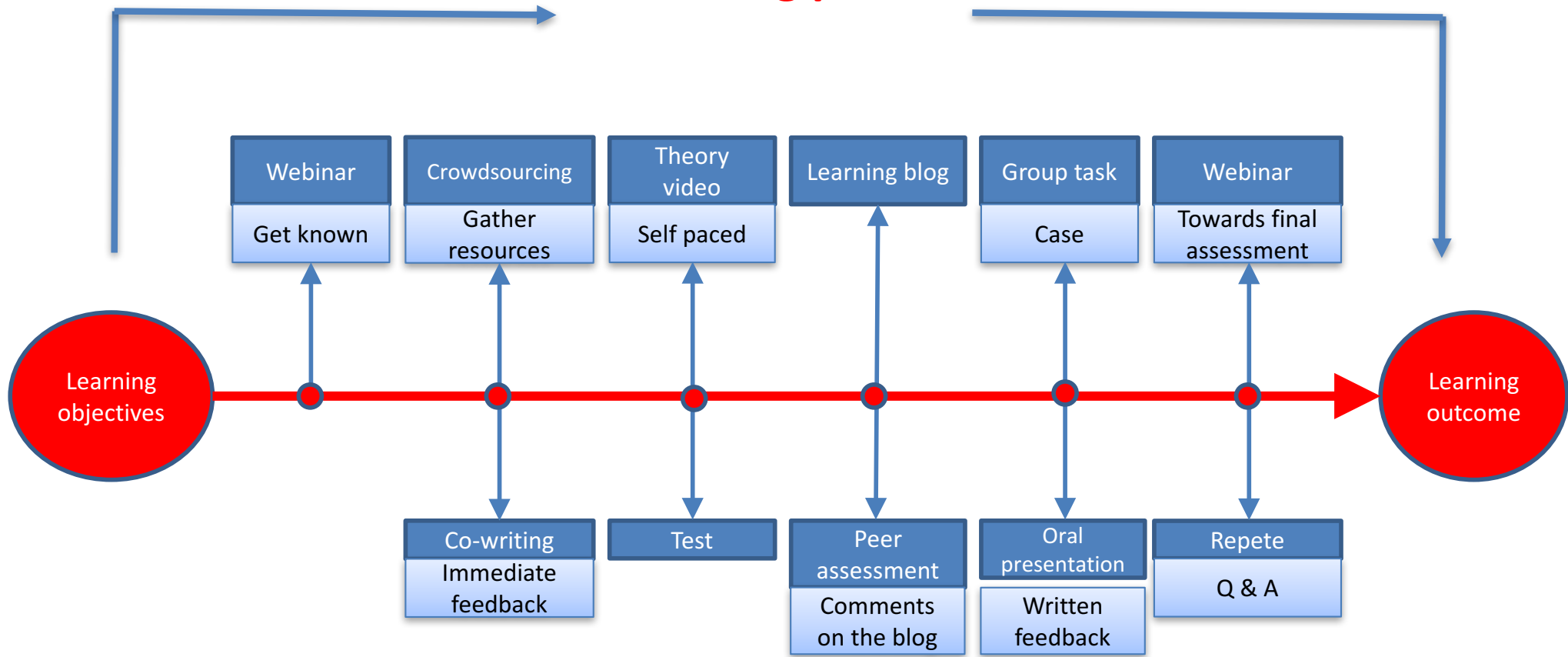
Didactical model



From: A Guide to Quality in Online Teaching and Learning (2018)

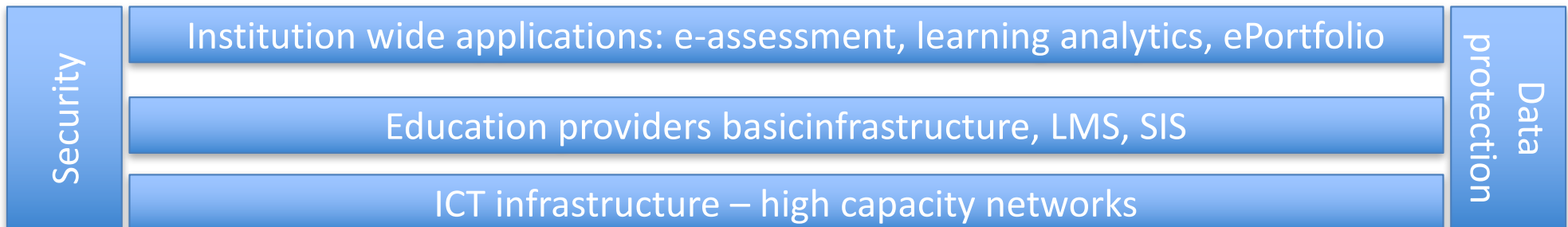
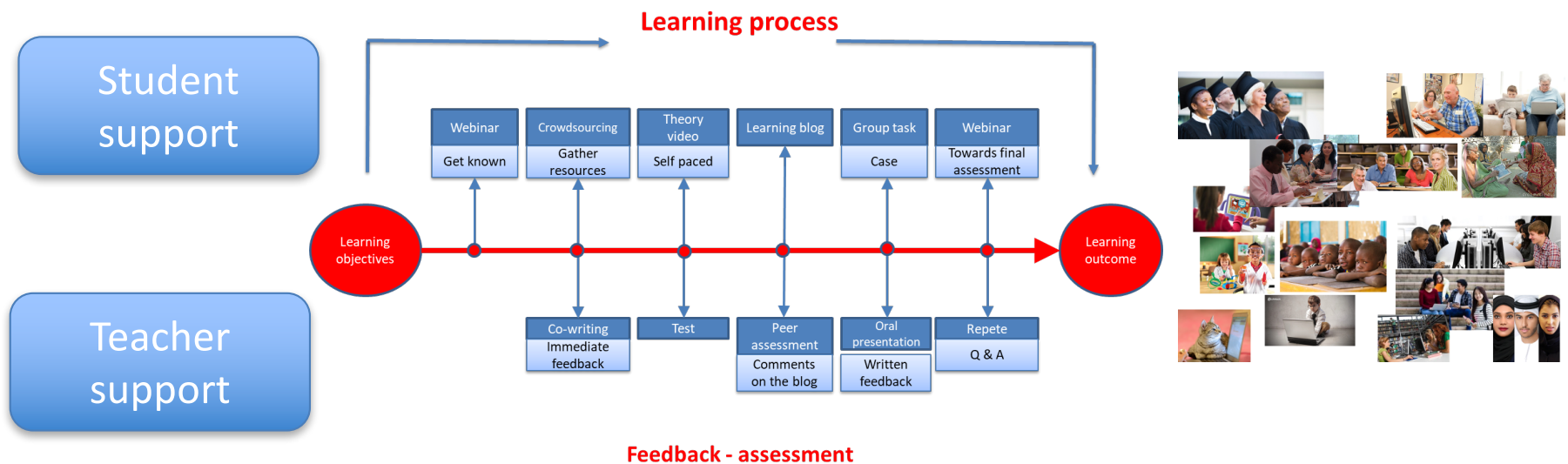
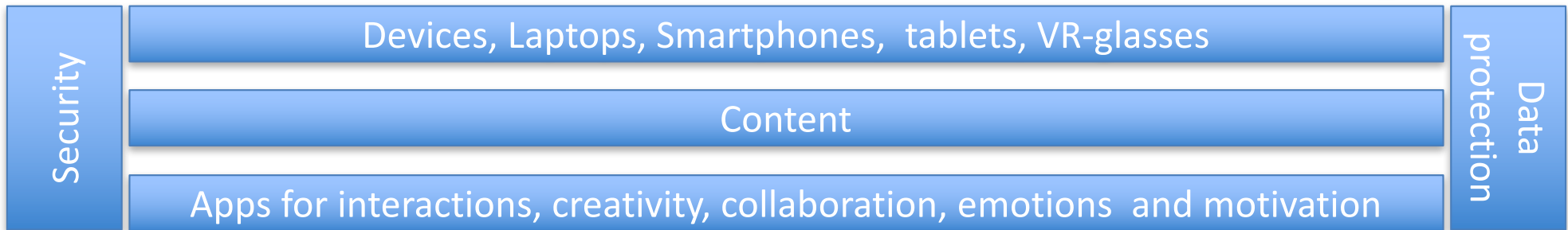


Learning process



Feedback - assessment

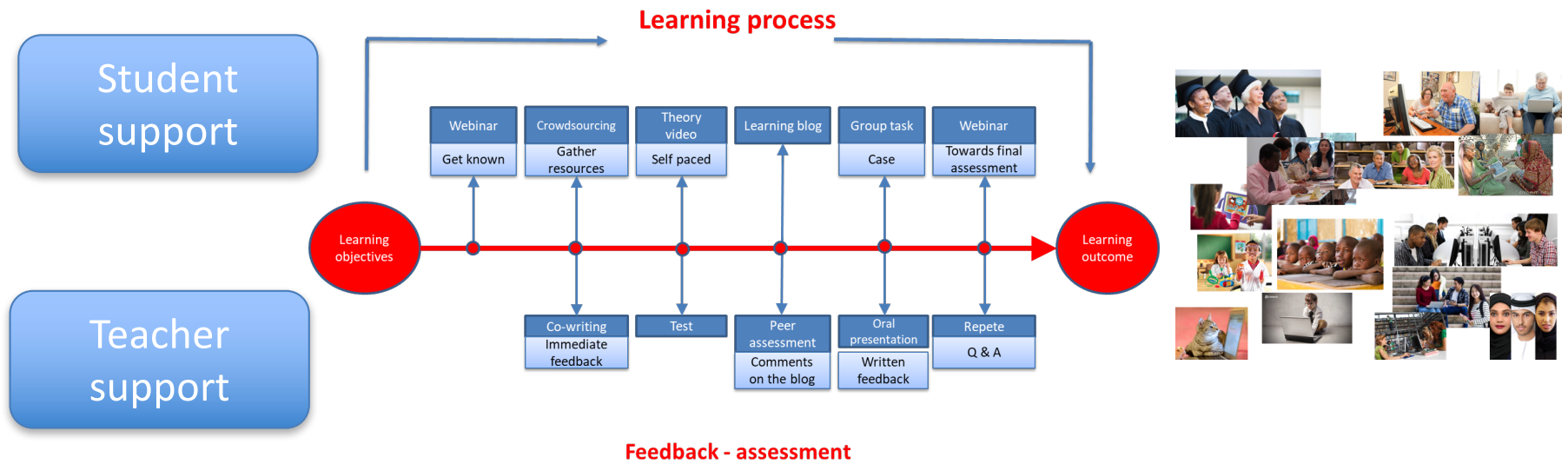
Facilitating innovative pedagogy



Facilitating innovative pedagogy



Time to market



Important Developments in Technology for Higher Education

2019

2020

2021

2022

2023

Time-to-Adoption Horizon: One Year or Less



Mobile Learning
Analytics Technologies

Time-to-Adoption Horizon: Two to Three Years



Mixed Reality
Artificial Intelligence

Time-to-Adoption Horizon: Four to Five Years



Blockchain
Virtual Assistants

Trends



EDUCAUSE Horizon Report | 2019 Higher Education Edition at a Glance

Key Trends Accelerating Higher Education Technology Adoption

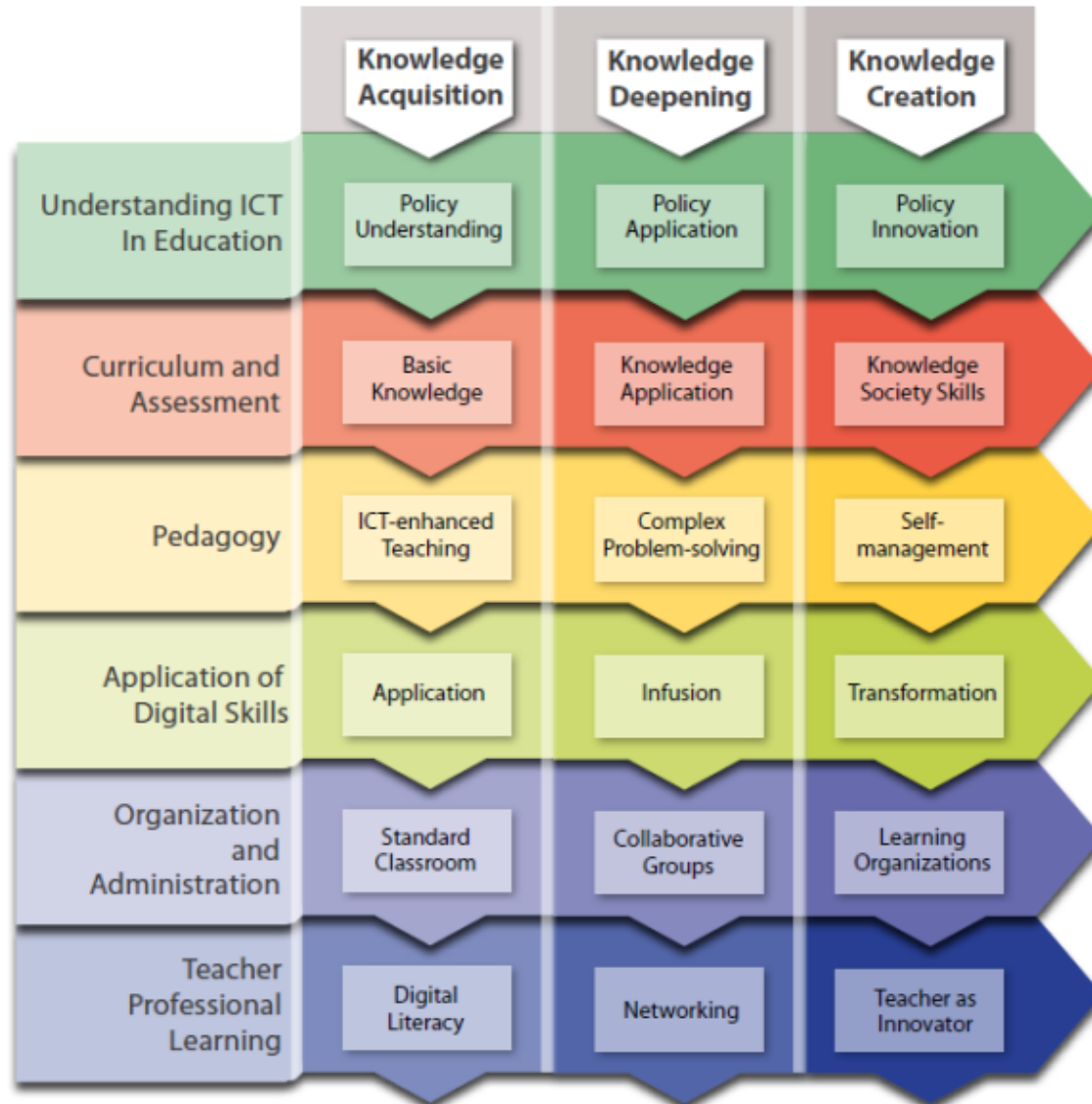




Take home lessons

- social, cultural and political context
- institutional policies and systems
- appropriate technologies that can be sustained over a period of time
- continuous capacity building for staff
- leadership, monitoring and evaluating results

UNESCO ICT Competency Framework for Teachers



UNESCO
ICT Competency Framework
for Teachers

VERSION 3



<https://www.oercommons.org/hubs/UNESCO>



Reflection: A leadership sharing practice circle on mobile, online and blended learning?

**Innovate
and
transform**

Test



A photograph of a person standing on a dark rock ledge inside a cave, looking out at a bright, lush green landscape with a waterfall. The scene is dramatically lit, with the cave interior in shadow and the outside world in bright light.

The Future

Is Blended

Inspiration from: Prof. Dae Joon Hwang, Sungkyunkwan University, Seoul, Korea
UNESCO IITE Governing Board Member, Moscow

What is our ultimate goal?

SUSTAINABLE DEVELOPMENT GOAL 4

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all



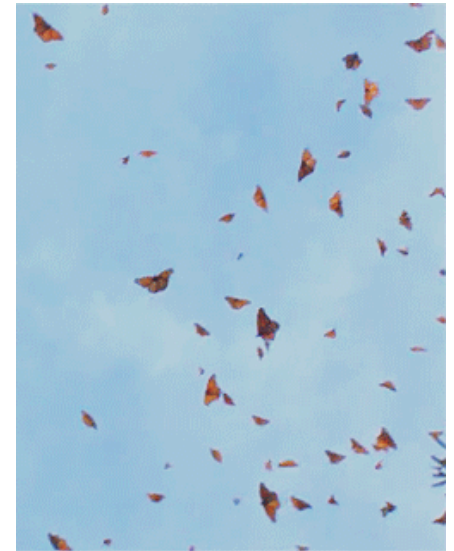


UNESCO Institute
for Information Technologies in Education



THANK YOU!

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SUSTAINABLE DEVELOPMENT GOAL 4

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

