



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

FORESIGHT

ICT  
in  
HE

# **Access, Equity and Quality: Envisioning the Future of Higher Education in a Digital Age**

**Kick-off meeting  
Paris, 25 March 2015**

**Gard Titlestad, Secretary General  
International Council For Open and Distance Education**



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

# Outline

- ICDE
- Gaps and trends
- Two grand challenges
- Opening up for knowledge
- Global trends
- Of particular interest
- Support

# Why is ICDE here?



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

- To be the leading global network for making quality learning accessible throughout the world using open, distance, flexible and online education.
- To connect institutions, organisations and professionals from across the globe so that they can share ideas, resources and best practices, partner on major projects and advocate together.
- To be the official partner of UNESCO, that shares that agency's key aim – the attainment of quality education for all
- ICDE believes that in pursuing education as a universal right, the needs of the learner must be central.
- To organize members in all regions of the world



**Partner with  
UNESCO  
50 years**



**25 Years Support  
From Norway**



**OPEN PRAXIS**

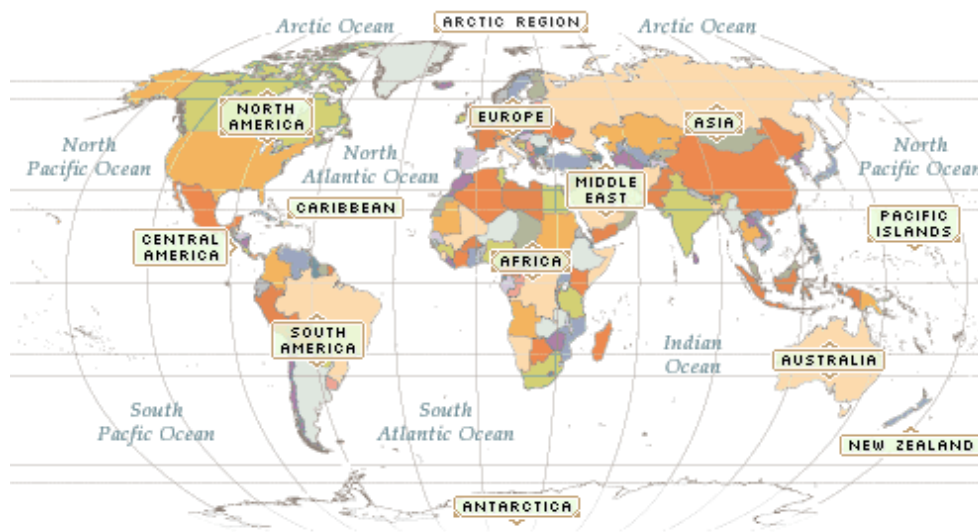
Volume 6, issue 2  
April-June 2014

2014 OCWC Global Conference  
Selected Papers

OPEN PRAXIS



[www.openpraxis.org](http://www.openpraxis.org)



Map View: Robinson Projection

# Objectives - ICDE



- Is a membership-driven networked community of practice focused on access to quality education for all
- Is aligned with the emerging, comprehensive development goals and works for all nations and systems, public and private
- Facilitates members and partners to take lead in methodologies, pedagogy and technology for open, distance, flexible, online education and elearning
- While closely associated with open and distance learning, its focus is on quality, access and learning outcomes through a lens of equity

# Issues:

- Future policies for the Online, Open and Flexible Higher Education that we want
- Quality oversight, models and the road ahead
- Student Success
- Leadership for change.....
- Global research agenda on Online and Open
- Teachers for the digital future
- Academic quality
- North – North
- North – South - South

# Our member-driven agenda



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

## International Council for Open and Distance Education Activity Plan 2014

## Examples

### PROJECTS - APPROVED

| No.   | Name  |
|-------|---|
| 0.1   | Research and Innovation Task Force  |
| 1.2.3 | Global Online Higher Education Report, Global OHER  |
| 1.2.4 | Impact of Distance Education on Adult Learning, IDEAL. EU funded.   |
| 2.1.1 | Overview Quality Standards. Study   |
| 2.4.1 | Bringing Educational Resources For Teachers in Africa. BERTA  |
| 2.4.2 | Working Group for Student Success   |
| 3.2.3 | OER for less used languages, LangOER. EU-funded.  |
| 3.2.4 | Nordic OER. Nordic network to promote open education and collaboration amongst stakeholders in all educational sectors. |

### PROJECTS TO BE DEVELOPED

| No.   | Name   |
|-------|--|
| 1.1.1 | Introductory activities to quality open, distance and online elearning.                                  |
| 1.2.1 | Policy process for declaration on ODL.   |
| 2.5.1 | Facilitate leadership for change. Project/initiative.  |
| 4.5.2 | North – South (AVU and UNISA) network in cooperation with the Norwegian government and Norwegian actors. |


Example initiative:

**ICDE OER Chair**

# ICDE events



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION



**The 26th ICDE World Conference**  
International Council for Open  
and Distance Education

*Growing capacities for sustainable  
& distance e-learning provision*

**14 - 16 October 2015**  
*South Africa*

Presidents Summit  
ICDE SCOP 2015



<http://www.unisa.ac.za/>

## ICDE partnering others events



**eLearning  
Africa**

↓  
**10<sup>th</sup> International Conference  
on ICT for Development, Education  
& Training**

**Addis Ababa  
Ethiopia  
May 20→22  
2015**



**MENA**

**"Towards Transformative Higher Education: The Role of Innovation  
in the 21<sup>st</sup> Century Digital and Knowledge based Society"**

*"Inspiring the leaders of today"*

10<sup>th</sup>-11<sup>th</sup> of November, 2015  
Dusit Thani | Abu Dhabi-UAE

**EXPANDING  
LEARNING  
SCENARIOS**

OPENING OUT THE EDUCATIONAL LANDSCAPE

IN COLLABORATION WITH  
 **20**  
years





# Three policy fora, 1 done, 2 planned:



20 November 2014: Open Education  
Key issues in policy for governments  
and senior management in higher education



Interventions, from UNESCO, ICDE and  
key experts and senior management:  
The Bali Message



High Level Forum in Paris  
9 – 11 JUNE 2015  
Higher education and ICT  
UNESCO – in partnership: ICDE



High Level Policy Forum 17 October 2015:  
Open Education: Key issues and policy  
advices for governments and senior  
management in higher education



# ICDE priorities 2015



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

## Priorities

The ICDE Executive Committee has decided to give high priority to, and have special focus on, the following specific objectives during 2015:

- 1.2. ICDE together with key partners and stakeholders to facilitate policy discussions among a selection of representatives from governments, universities and private and public sector, on the topic of the current and future development of open, distance, flexible and online education, including e-learning by the end of 2015.
- 2.1. To establish an overview of the global situation with regards to existing relevant standards and guidelines for open, distance, flexible, and online education, including e-learning by 2015.
- 3.3. Open Praxis to be recognized as a quality scientific journal by 2016.
- 5.3. Increase the institutional membership of ICDE by 25% before the end of 2013 and by 15% annually from 2014 to 2016.

In addition, and as a follow-up action to the 2013 and the 2014 Presidents Summit - the ICDE Standing Conference of Presidents meeting, priority will be given a new specific objective: **2.5 Brand and develop ICDE on leadership issues - support ICDE members' leadership and leadership for change.** (Strategic objective 2: To encourage quality in open, distance, flexible and online education, including e-learning.) This action includes further steps in opening up education and the development from distance to open education.

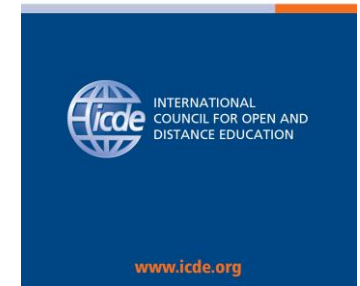
The field research and innovation, in particular connected to forefront developments (e.g. to MOOC and learning analytics), will be developed based on recommendations from the ICDE Task Force on Research and Innovation.

These priorities give ICDE a strong external focus. It is imperative that ICDE's internal and external collaboration and its governance structures support this focus to consolidate the new focus of the organization's activity.

Post-secondary education institutions are at the core of ICDE, the regional member associations represent the broad ICDE coverage of the sector, while ICDE continue opening up for greater individual member activities and networks – covering all aspects of open, distance and technology enhanced education.

Increased outreach will continue to be a crucial indicator for achievements in 2015.

International Council for  
Open and Distance Education  
Activity Plan 2015



# ICDE EXECUTIVE COMMITTEE



Tian Belawati,  
Rector,  
Universitas Terbuka,  
Indonesia.  
ICDE President



Maxim Jean-Louis,  
President - Chief Executive  
Officer, Contact North |  
Contact Nord, Canada



Mandla S. Makhanya,  
Principal and Vice  
Chancellor,  
The University of South  
Africa (Unisa)



Marta Mena, Director of Virtual  
Training Program for Researchers,  
Secretariat of Science,  
Technology and Graduate Studies,  
National Technological University,  
Argentina



Alan Tait,  
Director of International  
Development and Teacher  
Education,  
The Open University,  
UK



Yang Zhijian,  
President,  
The Open University of China

# ICDE SECRETARIAT



Gard Titlestad,  
Secretary General,  
titlestad@icde.org



Monique Udnaes,  
Senior Advisor,  
udnaes@icde.org



Vibeke Hoffmann,  
Administration Officer,  
hoffmann@icde.org



David Klotz  
Information and  
Membership  
Services Officer.  
klotz@icde.org

On distance  
Part-time



Carl Holmberg  
Senior Advisor -  
IDEAL Project  
holmberg@icde.org



Øystein Johannessen  
Senior Advisor -  
LangOER Project  
johannessen@icde.org



Inés Gil-Jaurena  
Editor - Open Praxis  
editor@openpraxis.org

# The regional member associations of ICDE



- Asian Association of Open Universities (AAOU)
- Asociación Iberoamericana de Educación Superior a Distancia – AIESAD
- Brazilian Association for Distance Education - ABED – Brazil
- African Council for Distance Education (ACDE)
- Association of African Distance Learning Centres
- The South African Institute for Distance Education (SAIDE)
- Arab Network for Distance and Open Education (Anode)
- Middle East e-Learning Association (MEeA)
- The Australasian Council on Open, Distance and e-Learning (ACODE)
- The Open and Distance Learning Association of Australia (ODLAA)
- The Open Education Resource Foundation – the Open Educational Resource university (OERu)
- European Distance and E-Learning Network (EDEN)

Partnership and collaboration

To make a  
difference through  
open education!

ICDE works on and gaps and  
trends



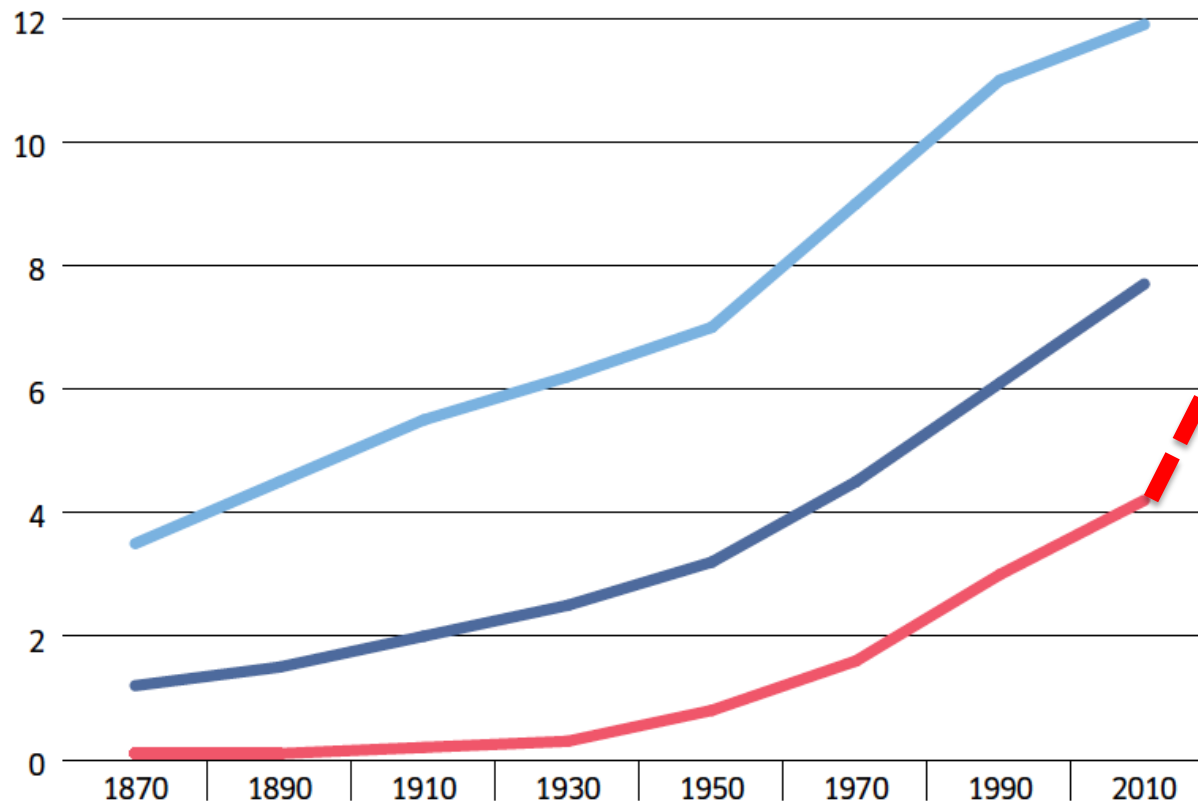
INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

# Education

Average years of education



Years of education — West-Europe — The world — Africa south of Sahara



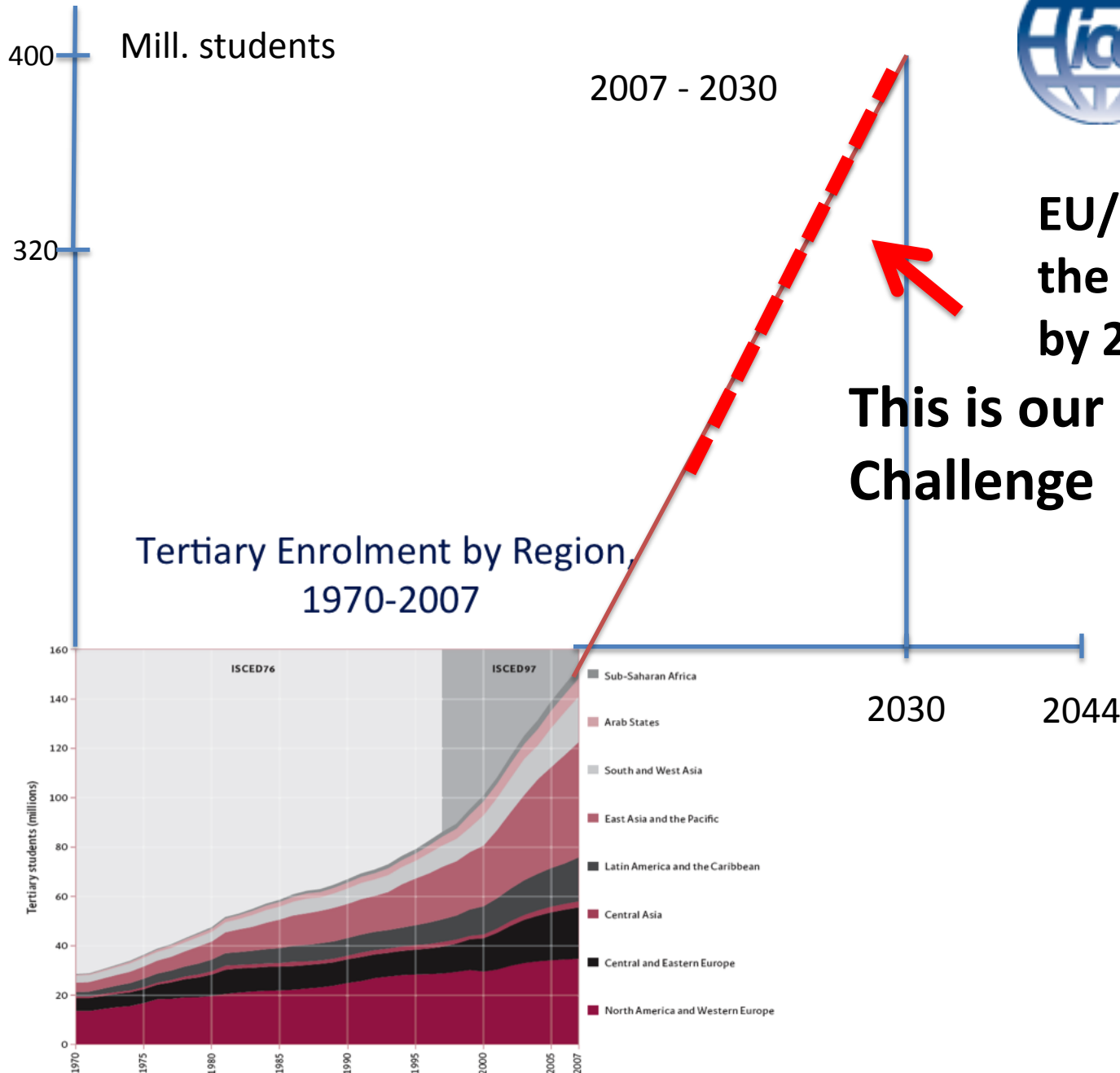
**This is our  
Challenge**

Source: Aftenposten/OECD. How Was Life?

Shows long-term progress in key areas of well-being



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION



**EU/OECD projections  
the need for HE  
by 2030: 410 mill.**

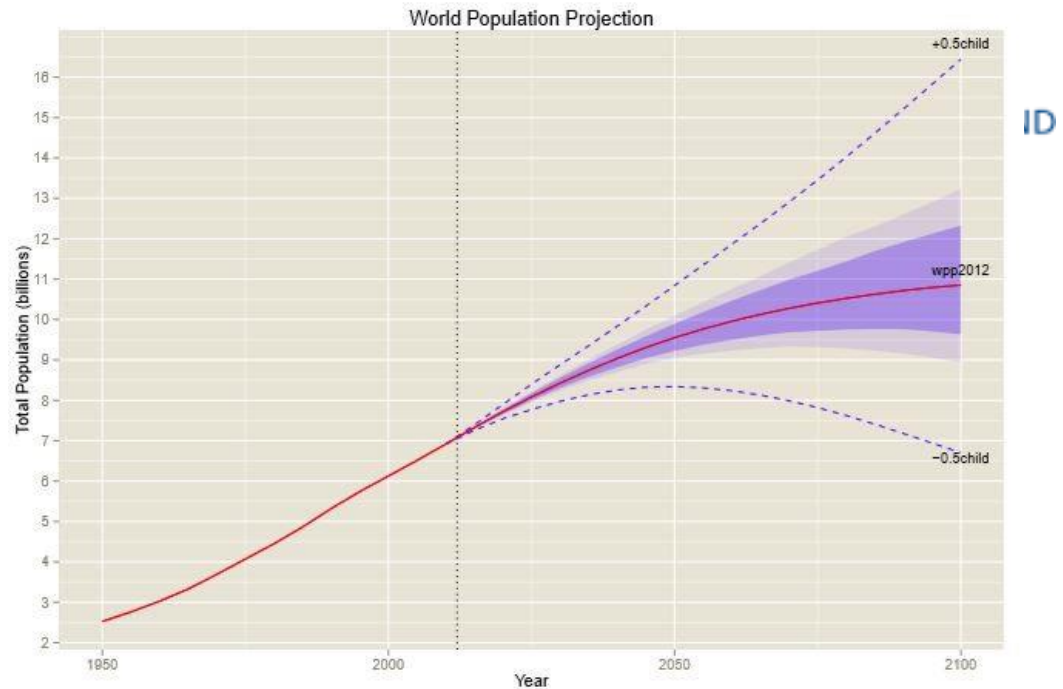
**This is our  
Challenge**



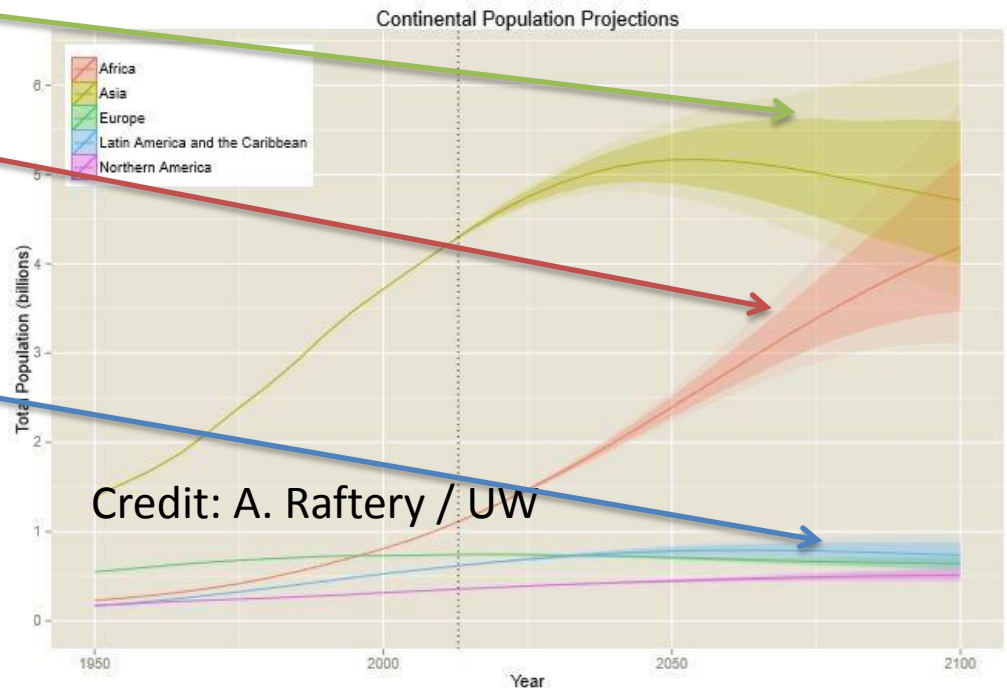
# The future hot spots

- Asia
- Africa

But also Latin America  
and the Caribbean



ID



Credit: A. Raftery / UW

World population stabilization unlikely this century.  
Science, 18 September 2014



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

# Not only **volume**

- The changes in higher education is dramatic



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

1970

2030

- |   |                            |
|---|----------------------------|
| • Ivory tower                                       | • Diverse Higher Ed System |
| • Elite   | • Mass (some elite)        |
| • Leaders <small>public and private sector</small>  | • Knowledge infrastructure |
| • Local   | • Global                   |
| • Contribute to the nation                          | • Meet global challenges   |
| • Physical  | • Virtual                  |
| • Classroom approach                                | • Personalisation          |
| • Chained, <small>place, time, people, pace</small> | • Open                     |
| • One institutional army                            | • Team and collaboration   |
| • Stability   | • Change                   |

And much more - unimaginable

**Excellence**

**Excellence**

# The **BIG** picture

- Three streams work in parallel:
  - Online becomes mature – and Internet/mobile: freedom from distance, mobile broadband: freedom from location
  - New methodologies, content and pedagogy – new opportunities for student supportive teaching
  - New knowledge about the brain and learning, new knowledge in neurosciences



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

# The BIG Picture

- Open, Online and Distance Education is steadily increasing all over the world

India

South America

Sweden

Russia

The US

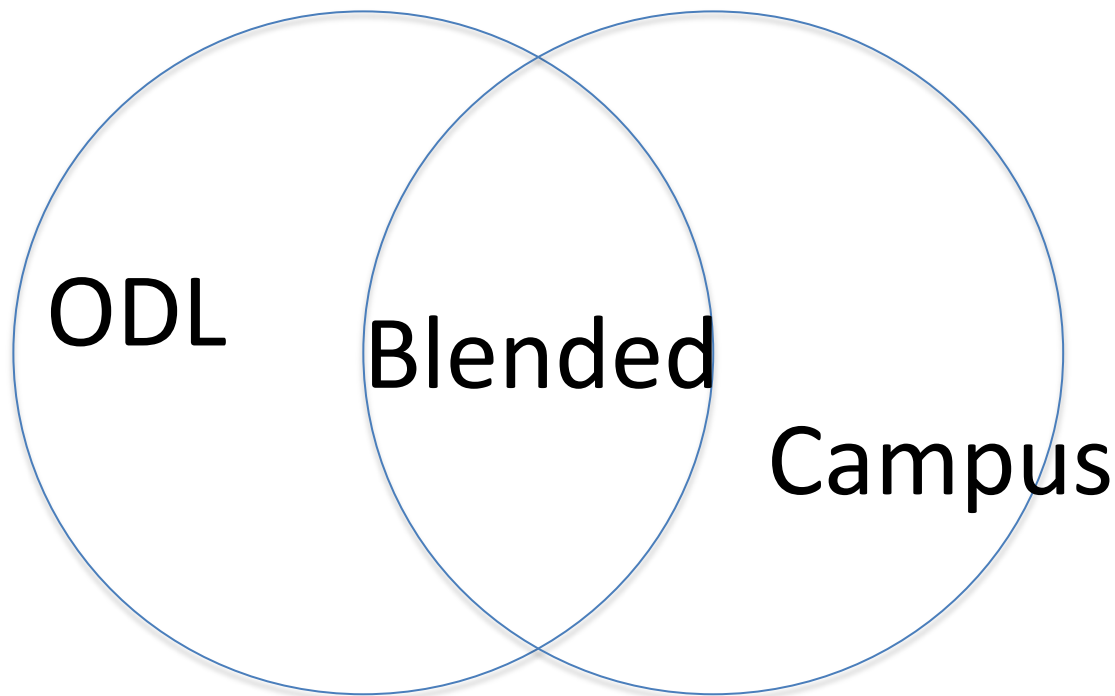
Australia

Africa

China

# The BIG picture

- Online, Distance (ODL) and on Campus Learning are converging => Blended



- And as a result – an even more diverse higher education landscape.....

# BIG



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

# The Governments move.....



# The Regions move.....

# The Small Governments move.....



<http://www.faberface.com/>

Trends that (can) work in favour of

# Opening up the road to knowledge





# OPENING UP EDUCATION

The Collective Advancement  
of Education through Open  
Technology, Open Content,  
and Open Knowledge



edited by  
Toru Iiyoshi and M.S.Vijay Kumar



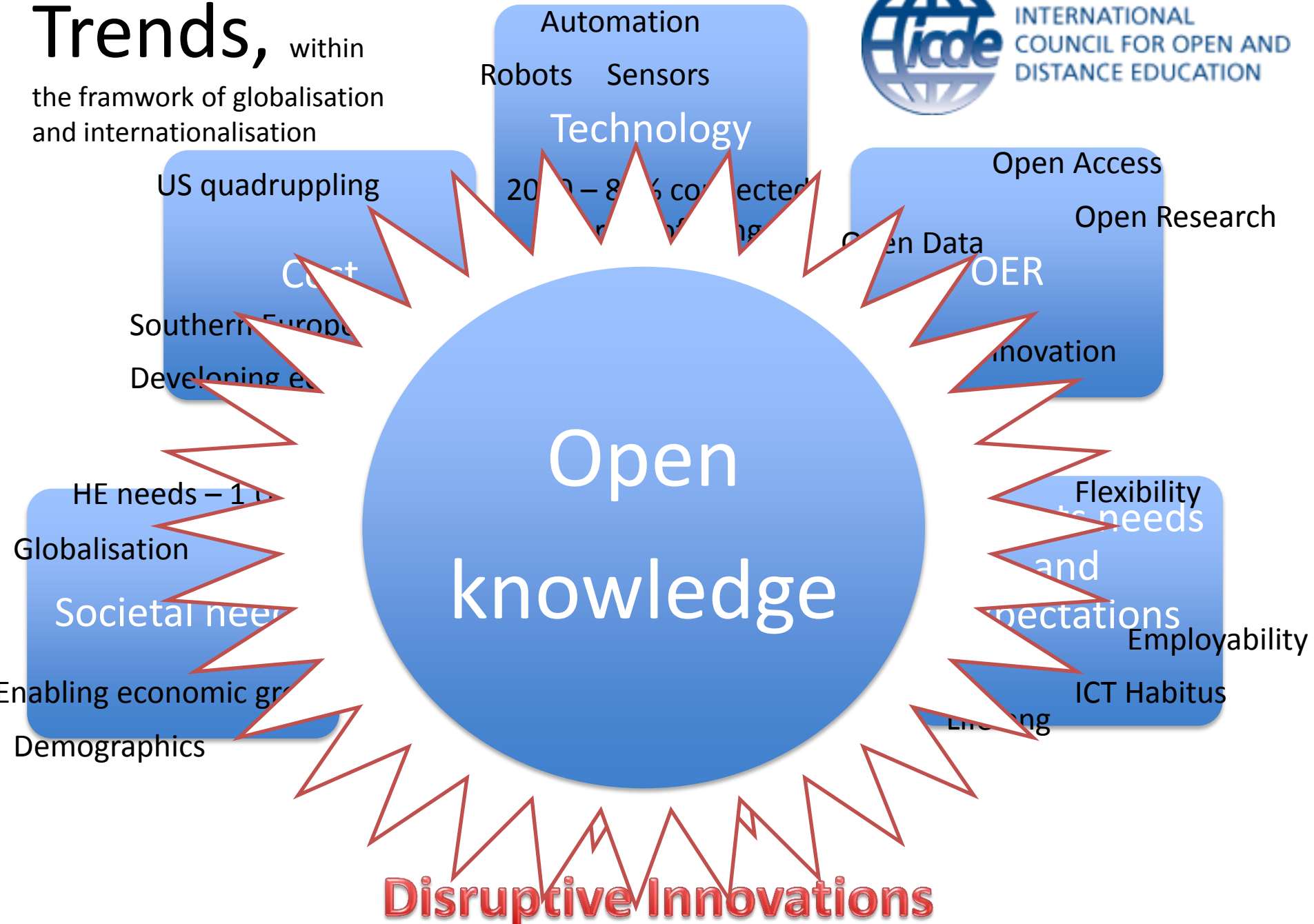
# World ring



Trends, within  
the framework of globalisation  
and internationalisation

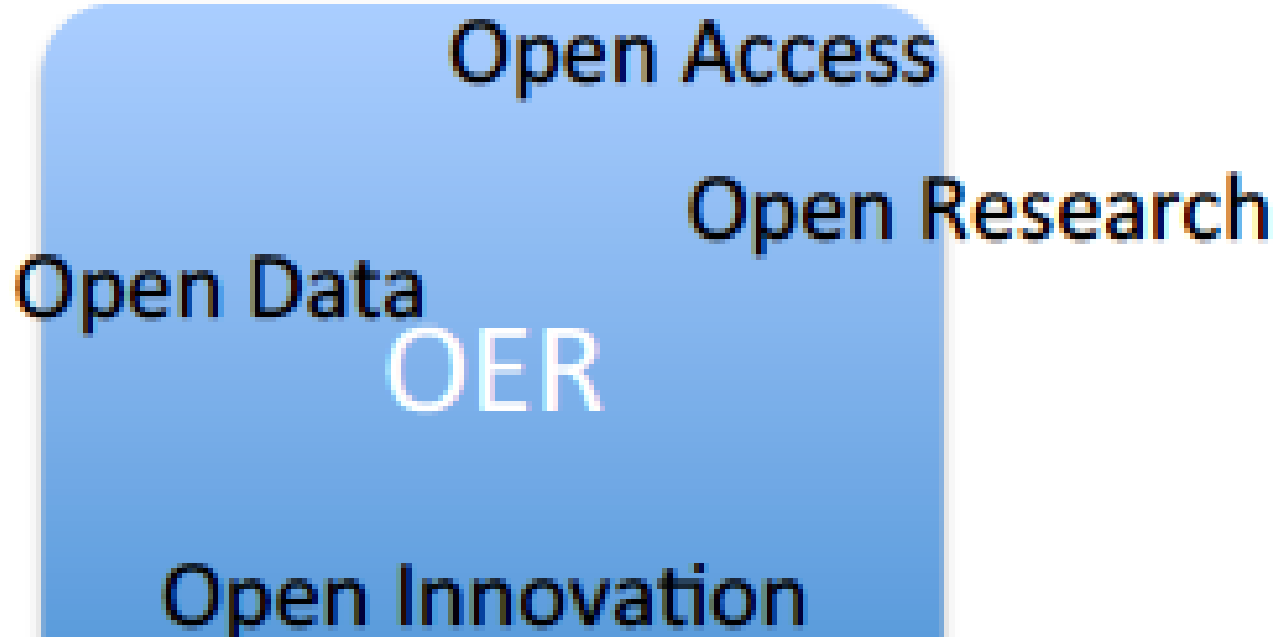


INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION





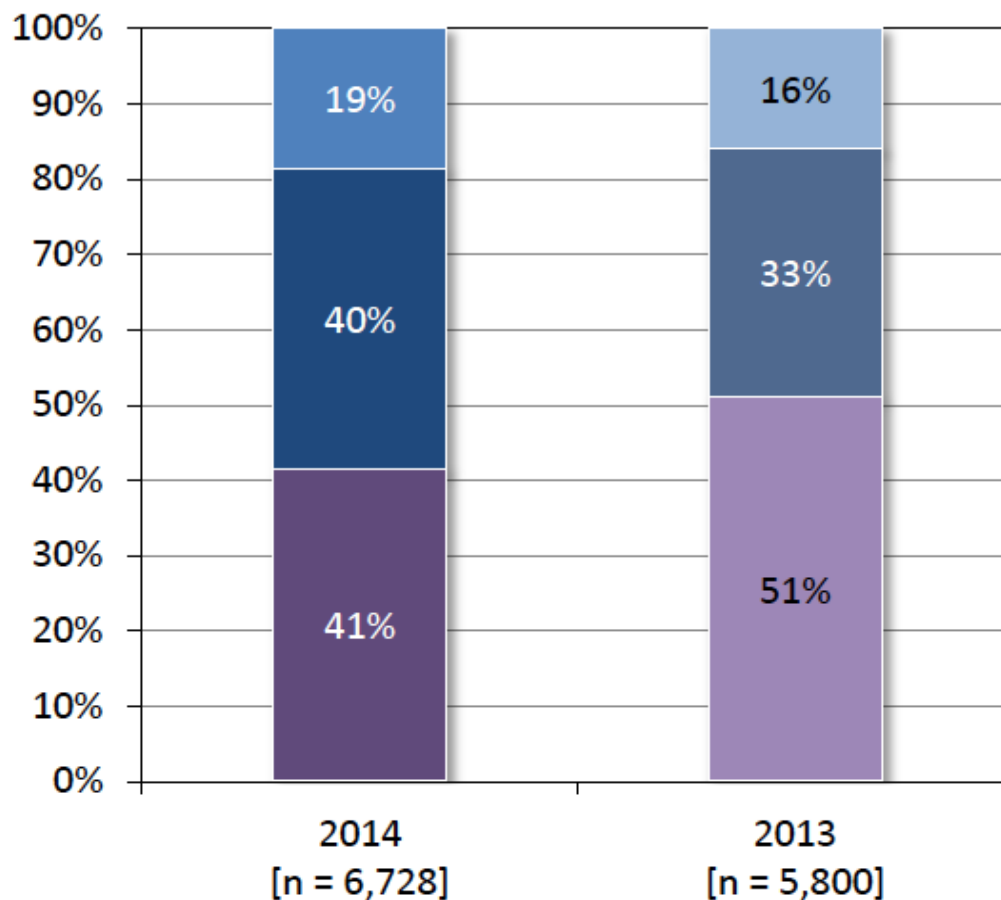
INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION



Q17

*Open Access publication*

Please tick the option that best describes what you think will happen over the next ten years.

**OPEN PRAXIS**

Volume 6, issue 2

April-June 2014

2014 OCWC Global Conference  
Selected Papers**OPEN PRAXIS**INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION[www.openpraxis.org](http://www.openpraxis.org)Taylor & Francis Group  
an informa business

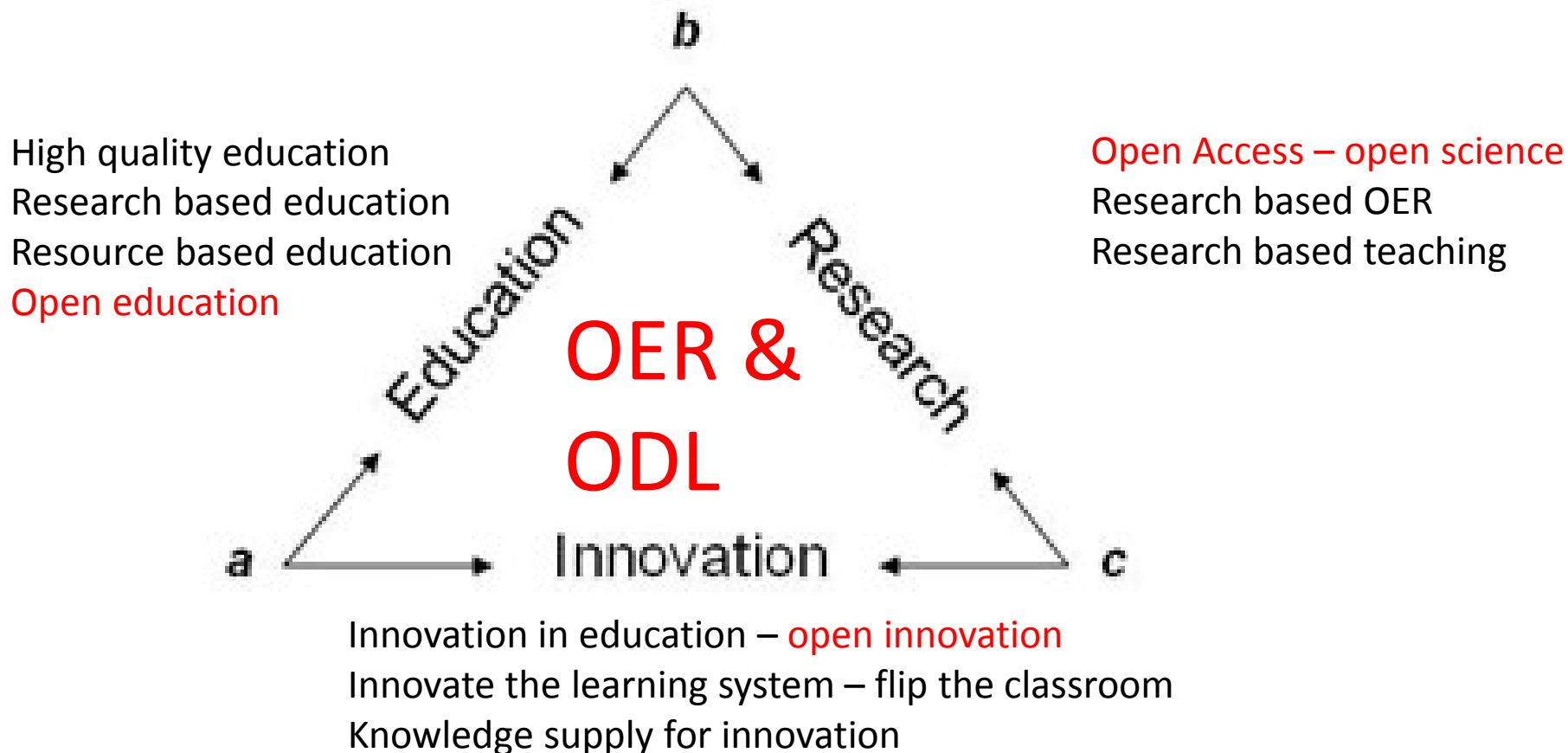
2014 Open Access Author Survey

June 2014



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

# OER and Open and Distance Learning can increase the impact of investments in knowledge





HE needs – 1 U a week

Globalisation

Societal needs

Enabling economic growth

Demographics

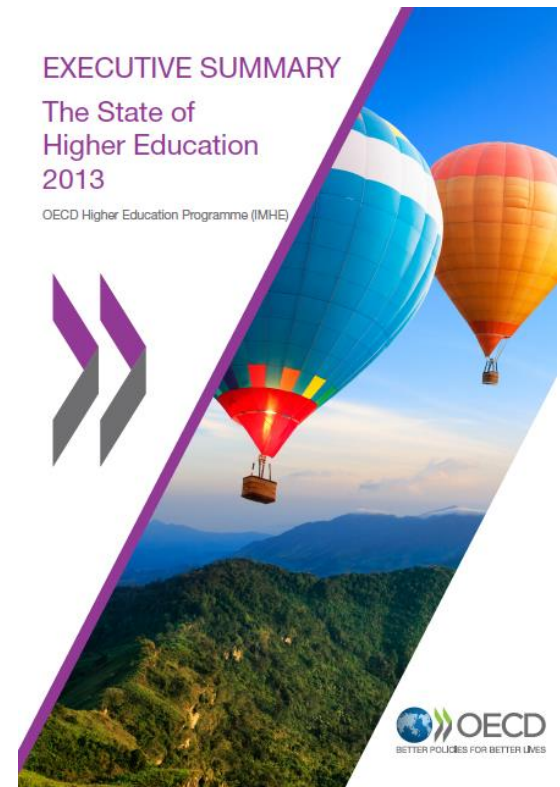


# THE STATE OF HIGHER EDUCATION: **Selected key findings and rec.**



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

- **Findings**
- The public and individuals benefit from higher education, HE, in financial and non financial ways.
  - HE generates positive returns to the public in general, as well as to the people who obtain degrees.
- HE without a degree does not boost earnings.
  - Although there are some benefits to HE participation, even if no degree is earned, drop-outs do not usually enjoy the same financial returns that degree holders can expect.



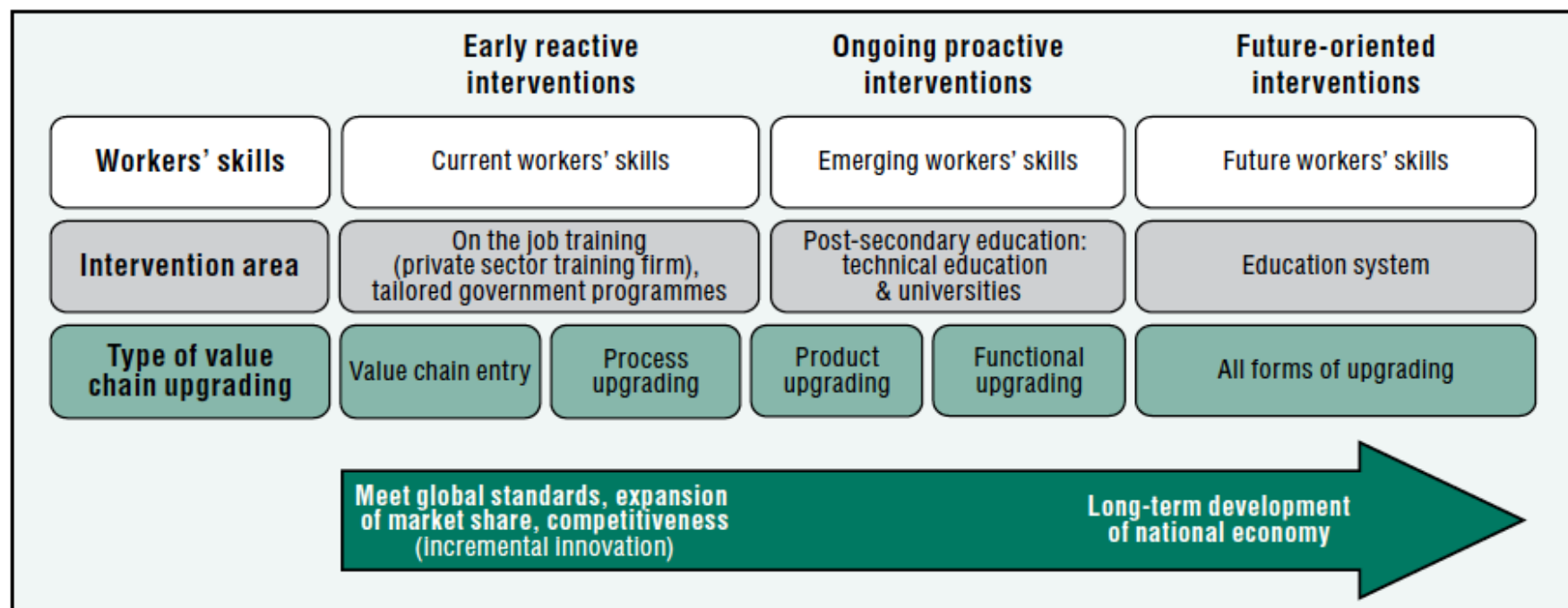


# Better integration of education and value chains needed



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

Figure 10. Typology of skills development policies for global value chain upgrading



Source: Fernandez-Stark et al. (2012).



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

Automation

Robots   Sensors

Technology

2020 – 80% connected

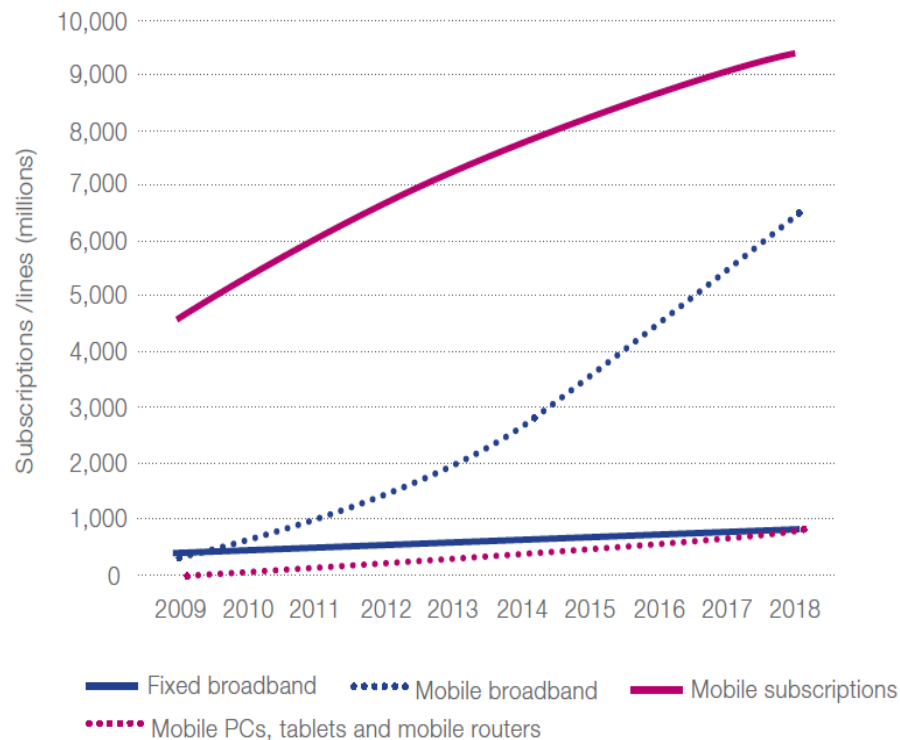
Internet of things



# The BIG picture

- We are in the beginning (of the beginning) – example: mobile technology

Figure 2: Mobile Broadband Bridges the Gap: Fixed Broadband and Mobile Subscriptions, 2009-2018



# Several initiatives for covering the unwired underway

Google's Project Loon uses big networked air balloons to fill internet black holes



Google to launch 180 satellites in \$1bn plan to cover the unwired



Image: O3b Networks

## Coverage map



Customers can connect to fiber infrastructure through Regional Gateways

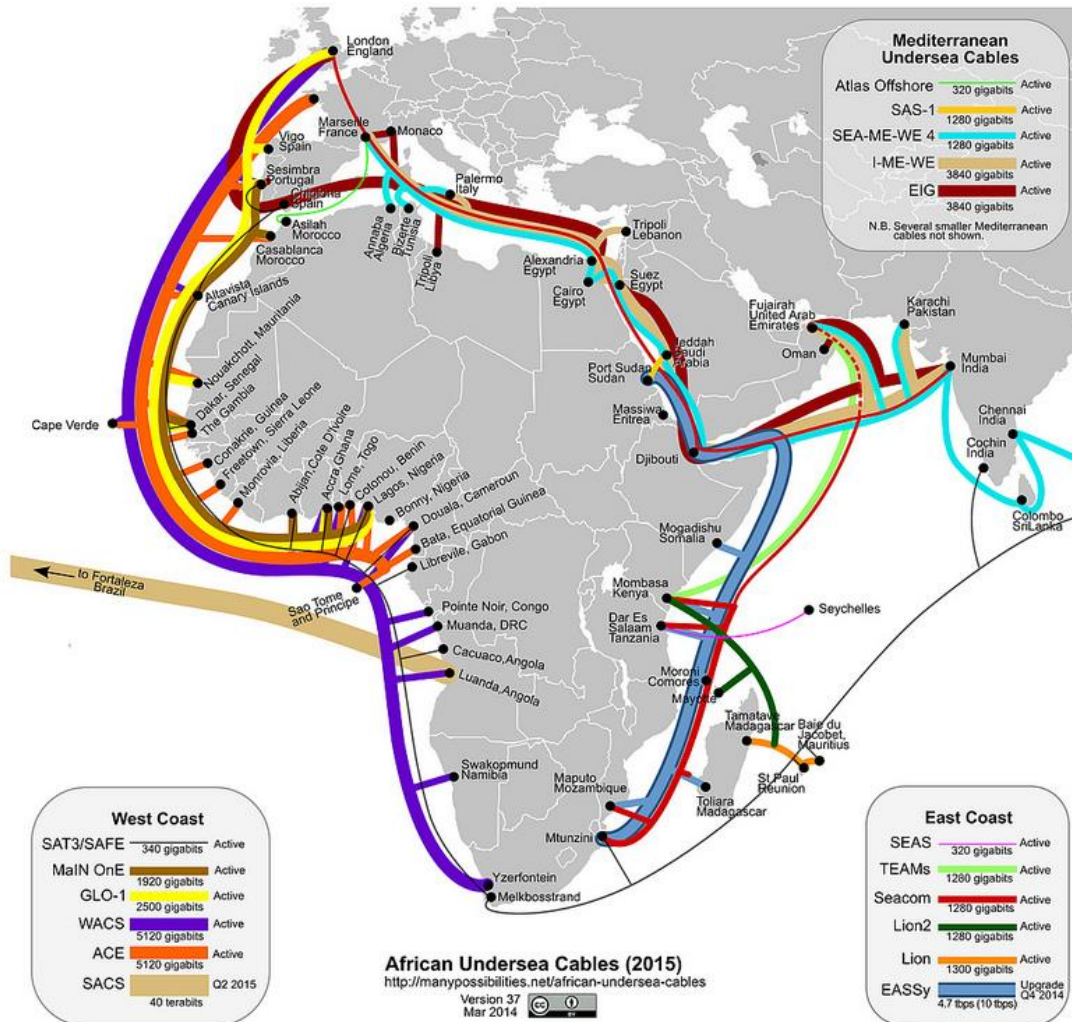
We are in the  
beginning of the  
beginning



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

## African Undersea Cables

Picture updated  
May 2014



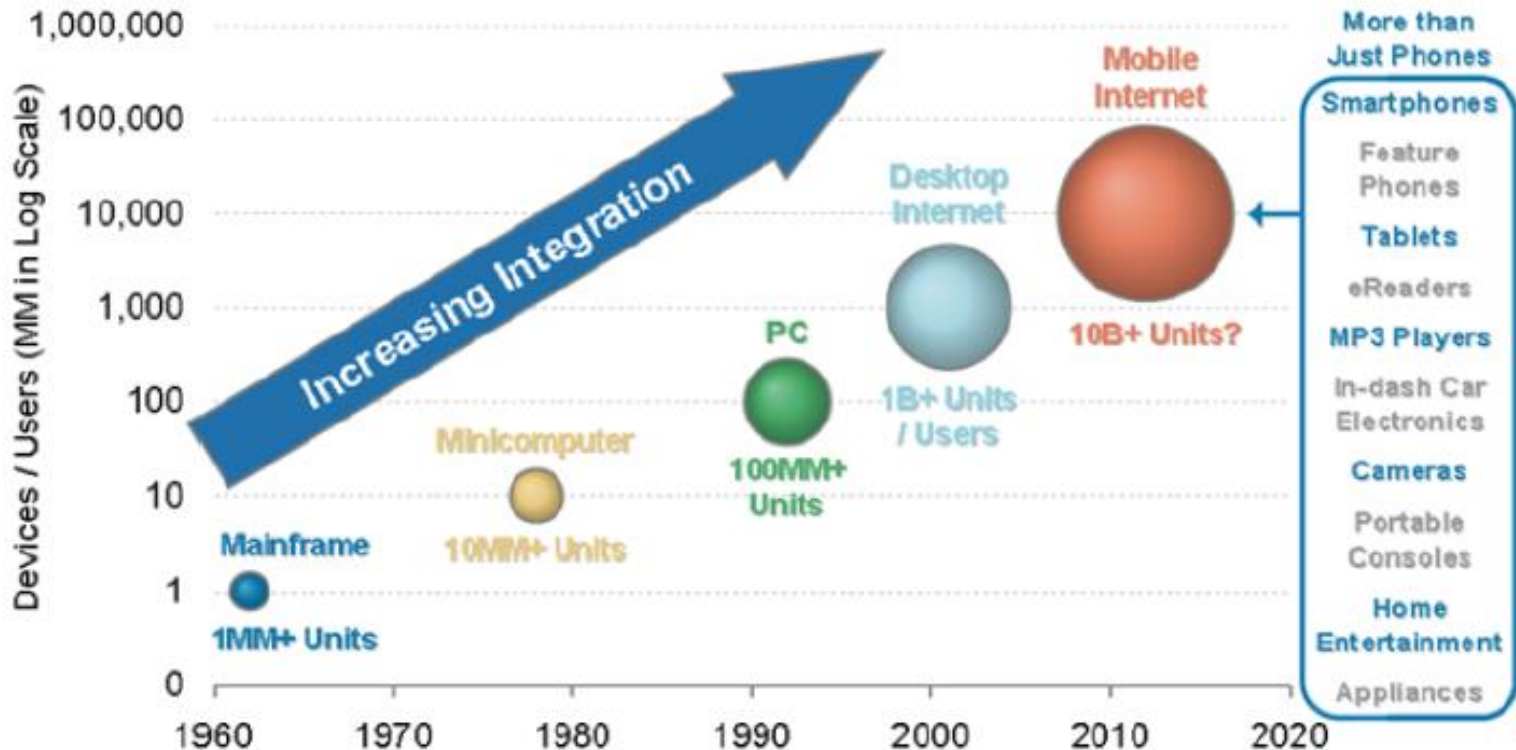


# Each New Computing Cycle = 10x > Installed Base than Previous Cycle

Exhibit 29

**Each new computing cycle typically generates around 10x the installed base of the previous cycle**

Devices or users in millions; logarithmic scale



# The mill that grinds on the bottom of the ocean



Hege Røyert, NTB Scanpix



Navngivelse-Ikke kommersiell-Del på samme vilkår Creative Commons lisens

NDLA





INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

# The BIG change?





INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

## The Future of Employment: How susceptible are jobs to computerisation?

About 47 per cent of total US employment is at risk.

<http://www.oxfordmartin.ox.ac.uk/publications/view/1314>

## Computerization Threatens One Third of Finnish Employment

<http://econpapers.repec.org/paper/rifbriefs/22.htm>

## 37% of Danish jobs classified with high probability for being phased out

[http://www.kraka.org/artikler/computere\\_og\\_udskiftning\\_af\\_jobfunktioner](http://www.kraka.org/artikler/computere_og_udskiftning_af_jobfunktioner)

## Vartannat jobb automatiseras inom 20 år

<http://www.stratresearch.se/Documents/Folder.pdf>



## Technology and jobs; Coming to an office near you

<http://www.economist.com/news/leaders/21594298-effect-todays-technology-tomorrows-jobs-will-be-immenseand-no-country-ready>

## The future of jobs; The onrushing wave

<http://www.economist.com/news/briefing/21594264-previous-technological-innovation-has-always-delivered-more-long-run-employment-not-less>

# Of particular interest (tentative)



- Trends related to:
  - cultural changes among students, learners and faculty
  - learning outcome, employability and jobs

# To support

- ICDE – community activity
- Idea: Have a MOOC on Foresight etc. – prelim contact with Futurelearn, small donations wanted.



INTERNATIONAL  
COUNCIL FOR OPEN AND  
DISTANCE EDUCATION

# Thank you

[titlestad@icde.org](mailto:titlestad@icde.org)

[www.icde.org](http://www.icde.org)