



COMMONWEALTH of LEARNING

ICI 12

INTERNATIONAL
CONFERENCE
ON INFORMATION

'Learning Unlimited'

Seri Pacific Hotel
Kuala Lumpur
Malaysia
12-13 December 2012

Democratising HE through OER: from commitment to action

Professor Asha Kanwar
*President & CEO,
Commonwealth of Learning*



December, 2012

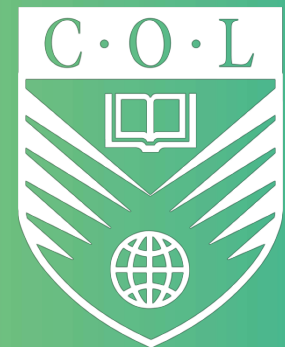


Plan

- Context of HE
- Rise of OER
- Are MOOCs the answer?
- From commitment to action

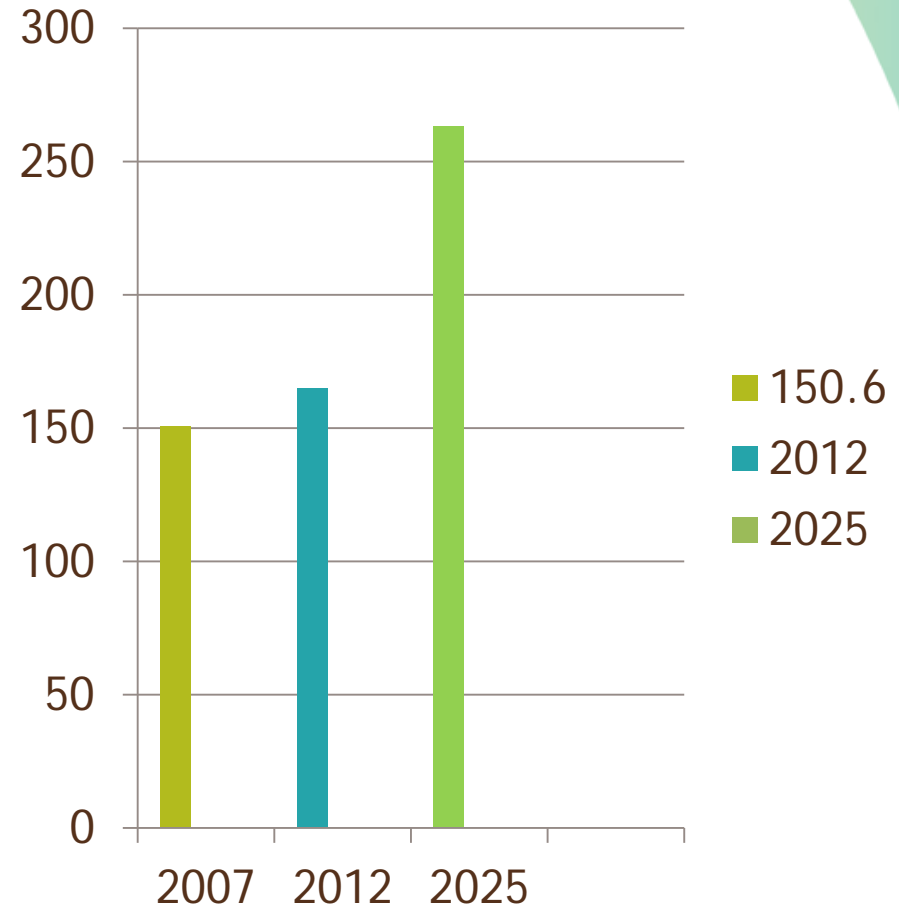


CONTEXT OF HIGHER EDUCATION

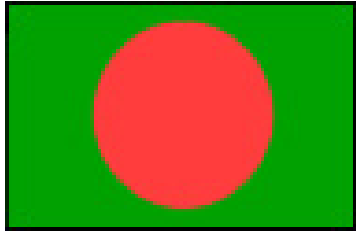


Exploding demand for HE

- 2007: 150.6 million tertiary students globally
- 2012: 165 million
- 2025: 263 million



Huge demand:



University of Dhaka
10,000 of 80,000

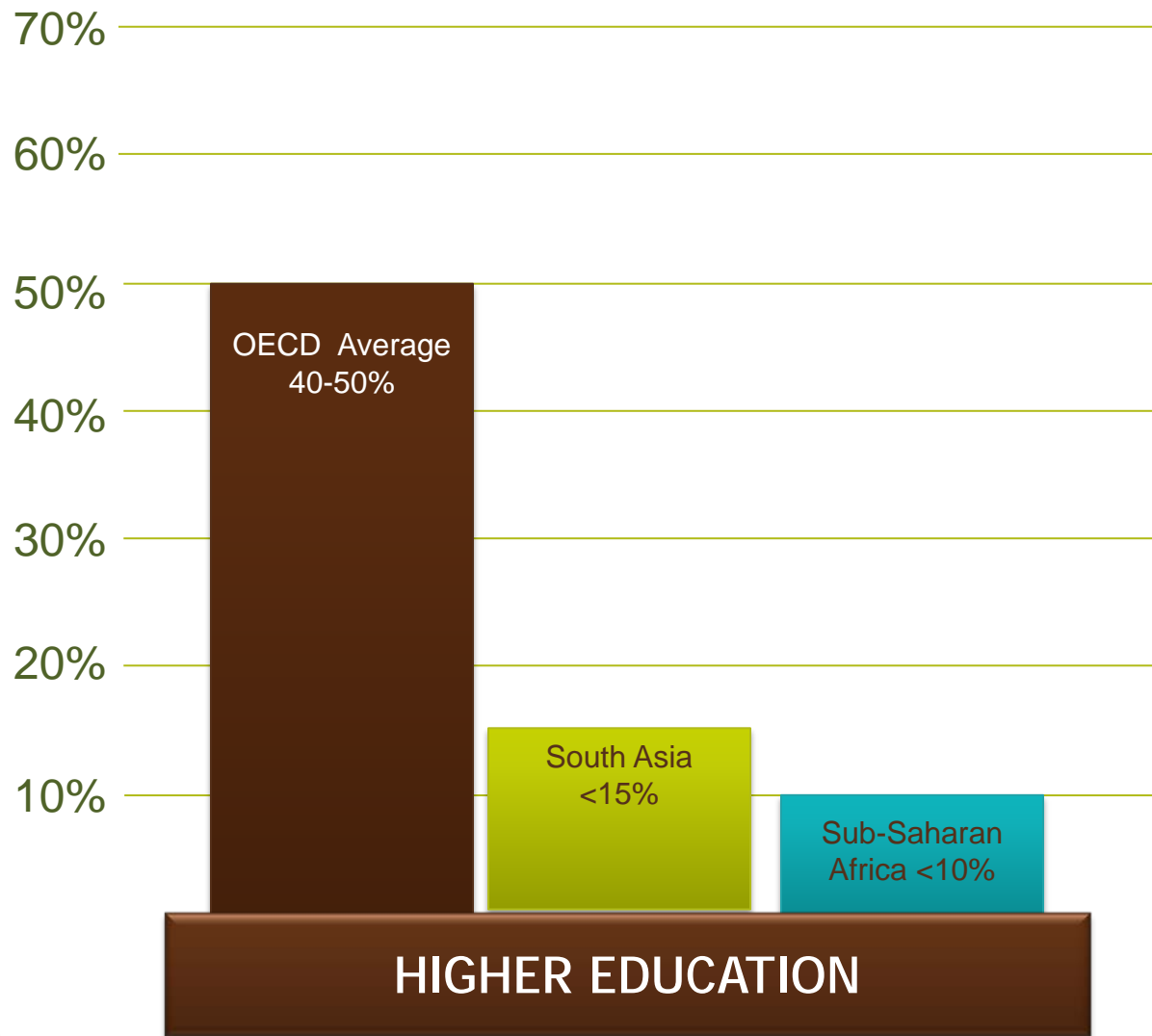


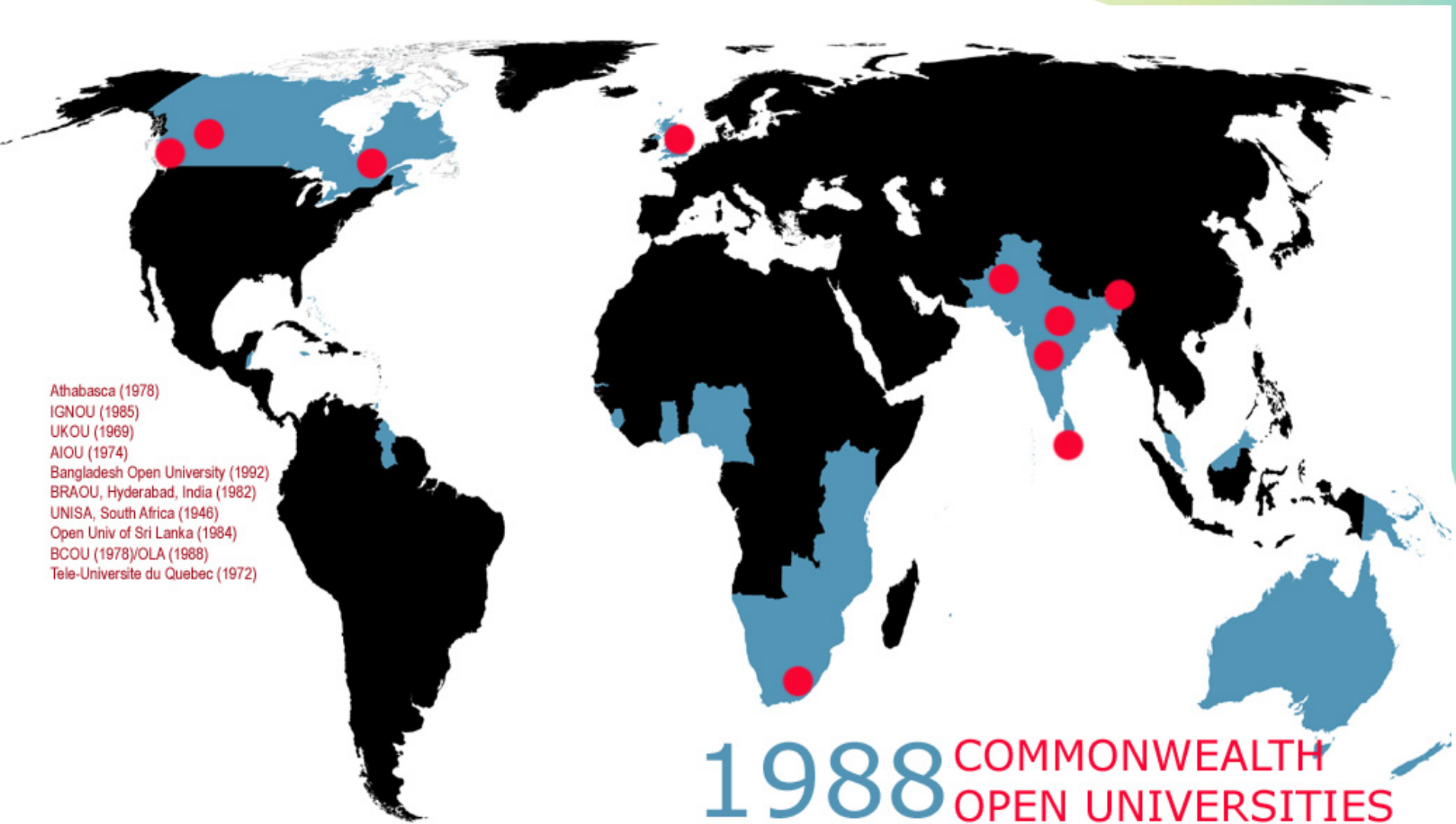
800 universities by 2020



Public universities
9,000 out of 40,000

Access to Higher Education





- Athabasca (1978)
- IGNOU (1985)
- UKOU (1969)
- AIOU (1974)
- Bangladesh Open University (1992)
- BRAOU, Hyderabad, India (1982)
- UNISA, South Africa (1946)
- Open Univ of Sri Lanka (1984)
- BCOU (1978)/OLA (1988)
- Tele-Universite du Quebec (1972)

1988 COMMONWEALTH OPEN UNIVERSITIES



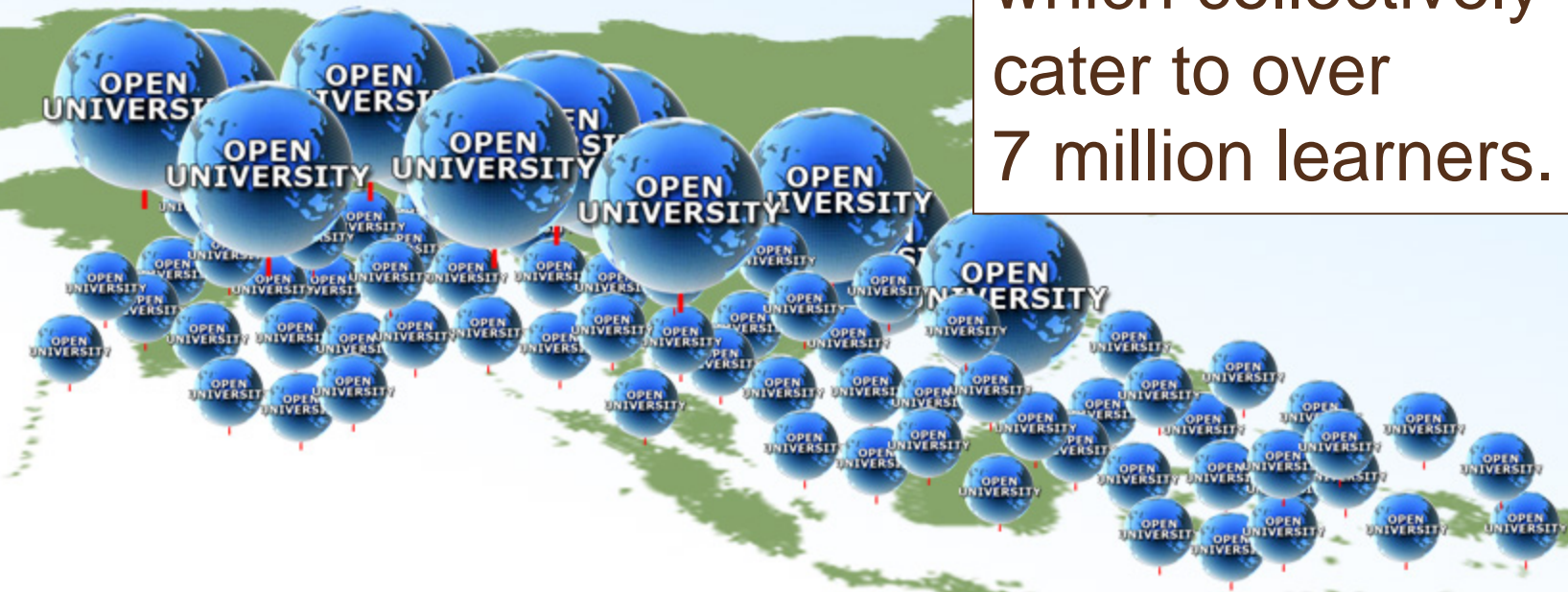
- IGNOU
- UKOU
- AIOU
- Athabasca
- Open University of Malaysia
- Open University of Tanzania
- National Open University of Nigeria
- Netaji Subhash Open University
- Bangladesh Open University
- BRAOU, Hyderabad, India
- YCMOU, Nashik, India
- MPBOU, Madhya Pradesh, India
- UNISA, South Africa 110,000
- Open Univ of Sri Lanka
- TNOU, Tamil Nadu, India
- Kota Open Univ, Rajasthan, India
- Open Univ, Uttar Pradesh, India
- Nalanda Open University, Bihar, India
- DBROU
- KSOU, India
- Open University of Zambia
- Open University of Uttaranchal, India
- Open University of Assam, India
- Open University of Cyprus
- K.K. Hadique State University, India
- The Open Polytechnic of New Zealand
- Wawasan Open University, Malaysia
- Open University of Mauritius

2012 COMMONWEALTH OPEN UNIVERSITIES



Asia has the largest number of adult ODL learners in the world, over 70 open universities!

India alone has a growing network of 14 open universities, 14 open schools and nearly 150 dual-mode institutions which collectively cater to over 7 million learners.



The Rise of Private Provision

- India and Malaysia: 52%; 54%,
- Brazil and Indonesia: 60%.
- Japan and South Korea: 73%; 60%

A New Dynamic: Private Higher Education , UNESCO, World Conference on Higher Education;

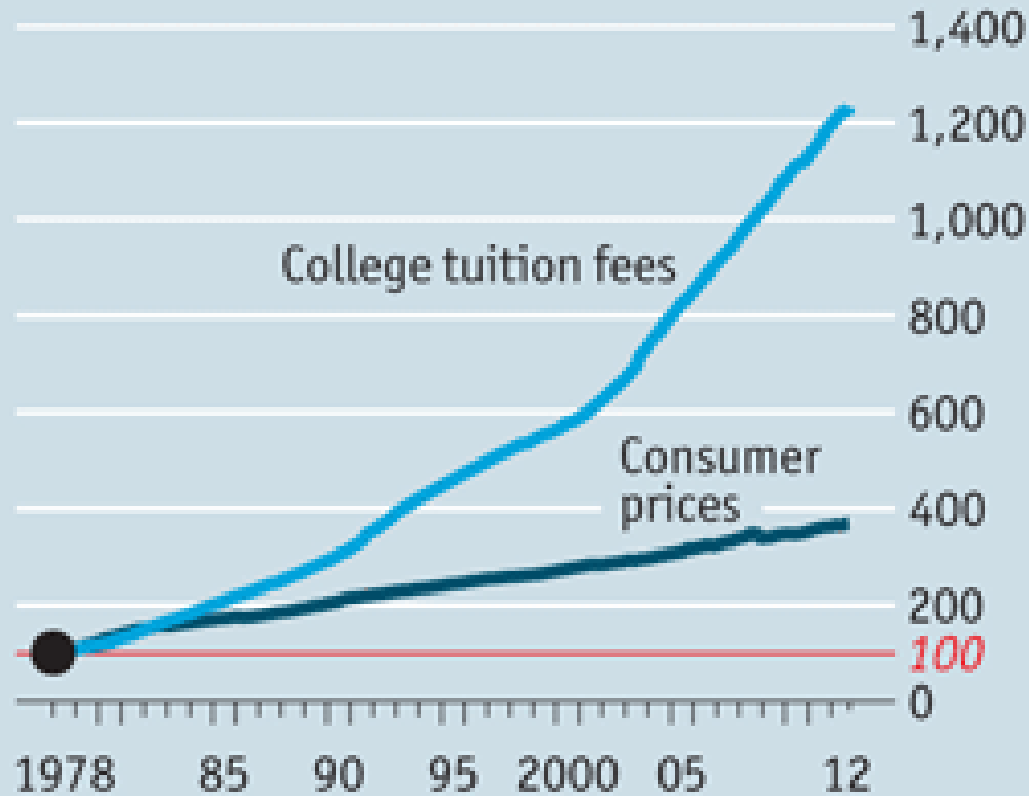
<http://www.albany.edu/dept/eaps/prophe/data/international.html>

UNESCO Global Education Digest, 2010

Still worth it?

1

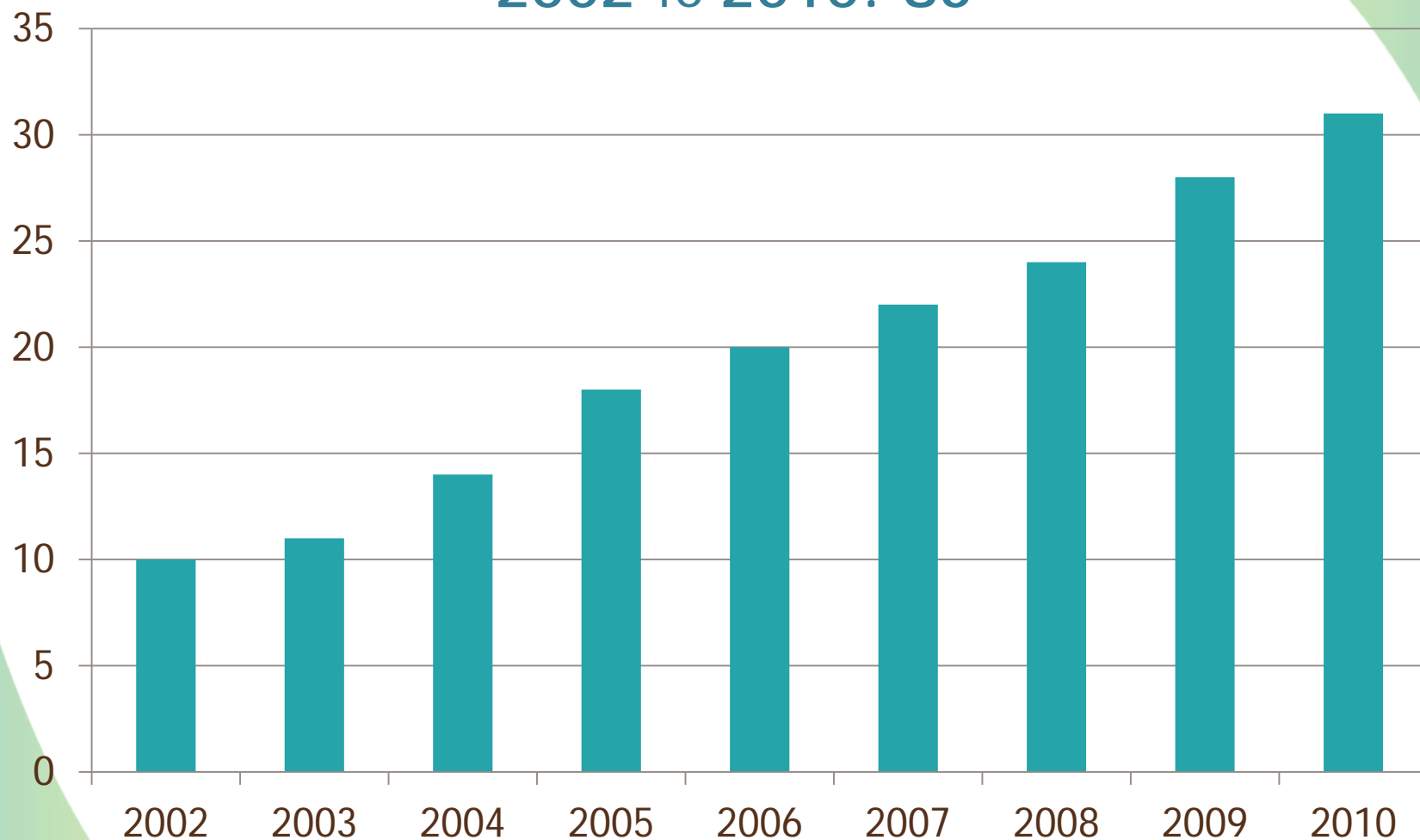
January 1978=100



Source: Bureau of Labour Statistics

Source: The Economist Dec 1st – 7th, 2012, Higher education, [Not what it used to be.](#)

ONLINE ENROLLMENT AS A % OF TOTAL ENROLLMENT 2002 TO 2010: US



Going the Distance – Online Education in the United States, 2011, I.E. Allen and J. Seaman.

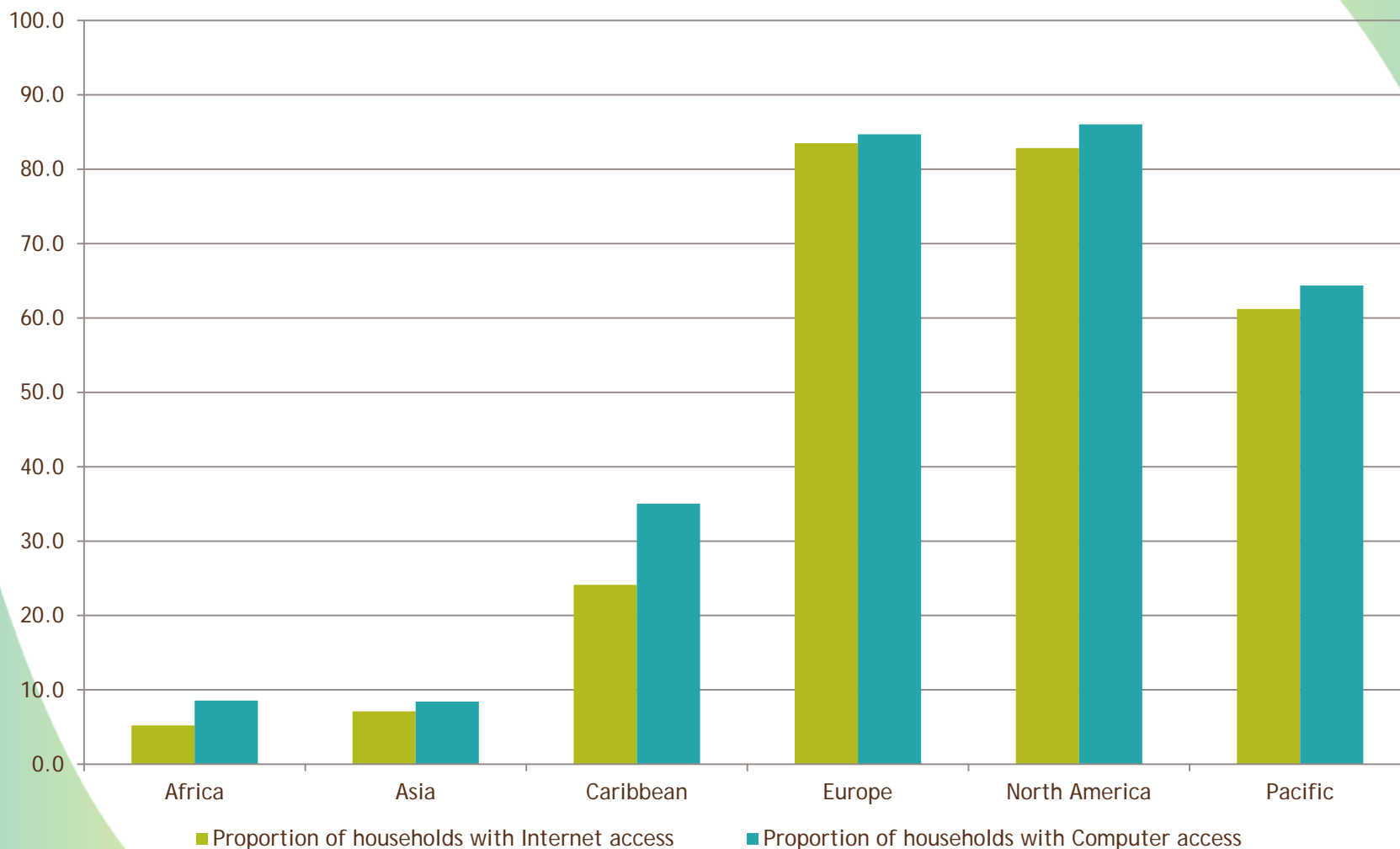


Online enrolments in Asia

- Highest growth in the world at 17.3%
- Vietnam: 44.3%
- Malaysia: 39.4%
- Malaysia Education Online (MEdO): goal to deliver 30% of all HE courses by 2015

Ambient Insight Regional Report, October, 2012

The Digital Divide (Commonwealth countries)



Source: International Telecommunications Union

<http://www.itu.int/ITU-D/ICTEYE/Reporting/DynamicReportWizard.aspx>

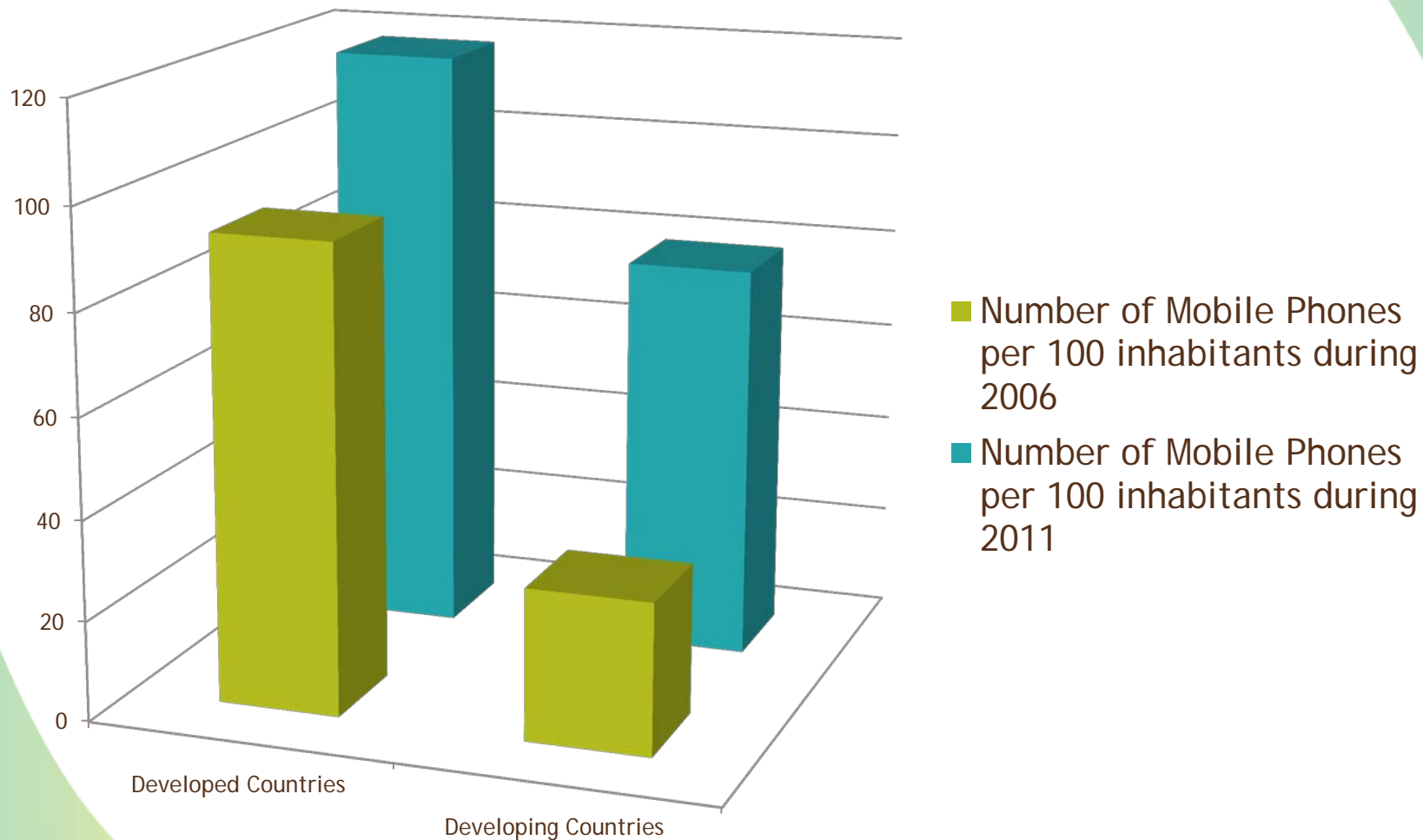


From digital divide to digital dividend

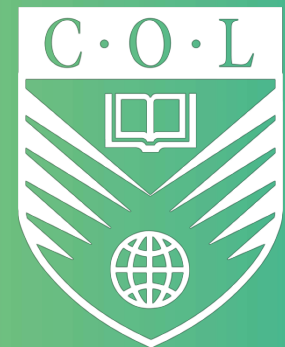
- The emergence of mobiles
- Use of appropriate technologies that are affordable, accessible and available



Expansion in Mobile Phones



THE RISE OF OER





UNESCO HQ Paris

2002 Forum on the Impact of Open CourseWare
for Higher Education in Developing Countries

What are Open Education Resources (OERs)?

Materials that are

- Free and freely available
- Suitable for all levels
- Reusable
- Digital



MITOPENCOURSEWARE

MASSACHUSETTS INSTITUTE OF TECHNOLOGY



The Open University

OpenLearn

Making educational resources freely available



The Virtual University for Small States of the Commonwealth



Who uses?

- 54% of MIT OCW traffic is non-US;
- 43% of the visitors are self-learners;
- 35% of the freshmen are aware of MIT's OCW before attending the university and
- 17% of educators using the site have re-used the content'

Access: Malawi

- Bunda College of Agriculture
 - 102 page Communications Skills textbook
 - 75% OER
 - Adapted by adding contextually relevant materials, activities, assignments



Access: translation

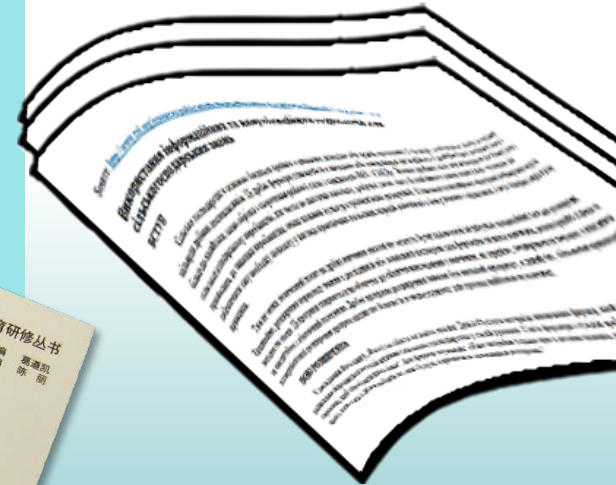
CORE



COL ID template
translated and adapted by
Open University of China



COL materials
in Ukrainian



Can OER contribute to Quality?



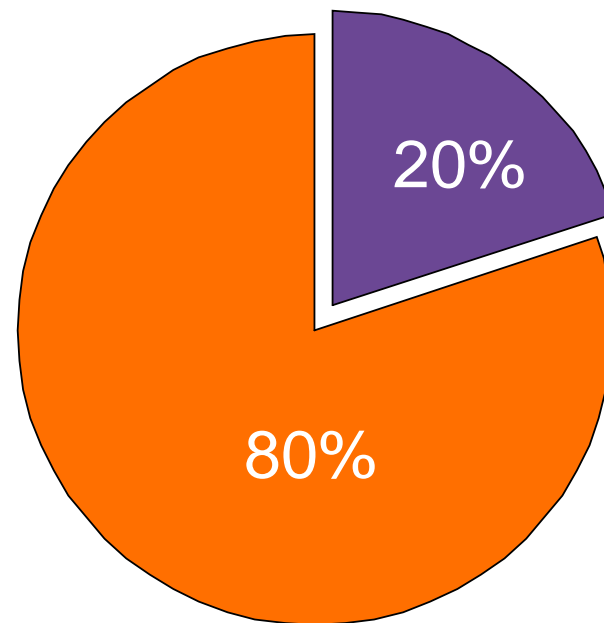
■ 611 institutions in India

- KSS Women's Engineering College, Andhra Pradesh
- Maya Devi Educational Foundation, Uttarakhand
- Bhilai Institute of Technology, Chattisgarh





Costs: Development of DE resources

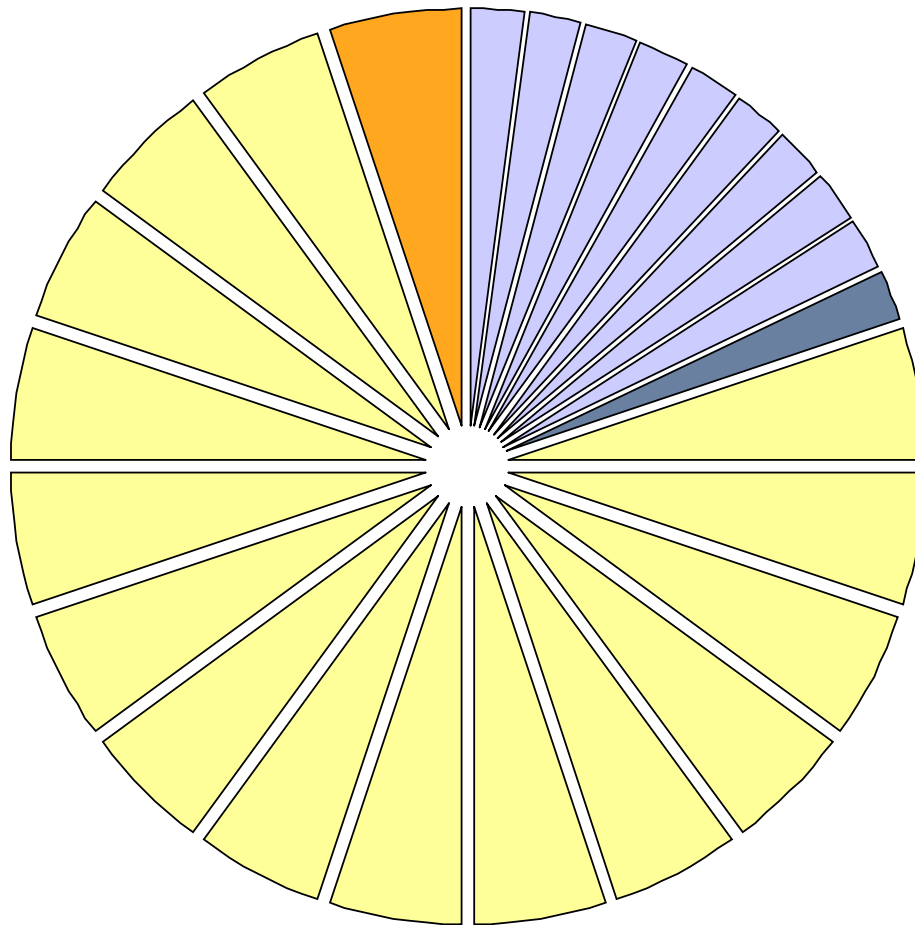


**Instructional
design, multimedia
design, editing etc.**

Academic authoring time



Development of OERs



Authoring
shared among
participating
institutions/
individuals

Mackintosh

Costs per teacher?

- 20 teacher education programmes in 12 countries
- Materials available in 4 languages
- In 2010, 320,000 teachers benefited



Teacher Education in Sub-Saharan Africa

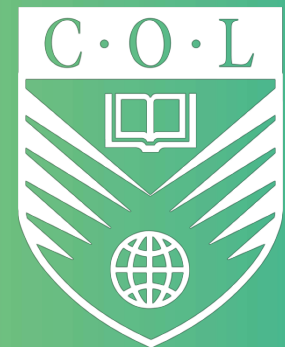
OER Survey, Asia, 2011 (WOU, IDRC)

- **Teachers:** difficult to locate, adapt, and re-purpose OER material relevant to their work.
- **Learners:** OER should be more open and multi-modal.
- **Technical support:** lack of standard practices in the packaging and re-use of OER.
- **Management:** concerns regarding intellectual property; copyright issues and competition

OER can democratise education by

- improving quality: availability of OER can release faculty time for more research
- diversify provision from full services to services that the learner can choose, increasing flexibility
- Cut costs through the use of free materials and textbooks

ARE MOOCS THE ANSWER?



Massive Open Online Courses: MOOCs

... a MOOC is a type of online course aimed at large scale participation and open access via the web. MOOCs are a recent development in the area of distance education, and a progression of the kind of open education ideals suggested by OER

Wikipedia, 20/09/12

MOOCs are typically

- Free of charge
- Designed for large numbers
- Designed to encourage peer to peer learning
- Meant to award completion certificates rather than course credits

OBHE Report,
2012

Stanford 2011

- Artificial Intelligence course
- 160,000 registered
- 23,000 completed
- All countries except North Korea

STANFORD
UNIVERSITY



Oct. 10 - DEC. 16, 2011

INTRODUCTION TO



Artificial Intelligence

In partnership with the Stanford University School of Engineering.
You can join this online worldwide class this fall.



Sebastian Thrun

Sebastian Thrun is a Research Professor of Computer Science at Stanford University, a Google Fellow, a member of the National Academy of Engineering and the German Academy of Sciences. Thrun is best known for his research in robotics and machine learning.

Fast Company Magazine selected him as the 8th most innovative person in business, the UK Telegraph included him in their list of 100 living geniuses, and Popular Science included him in their list of Brilliant Ten. His self-driving car was

Signup is temporarily unavailable. Please check back in a few hours.

[Follow](#) [Unfollow](#)

Over 135,000 have signed up!

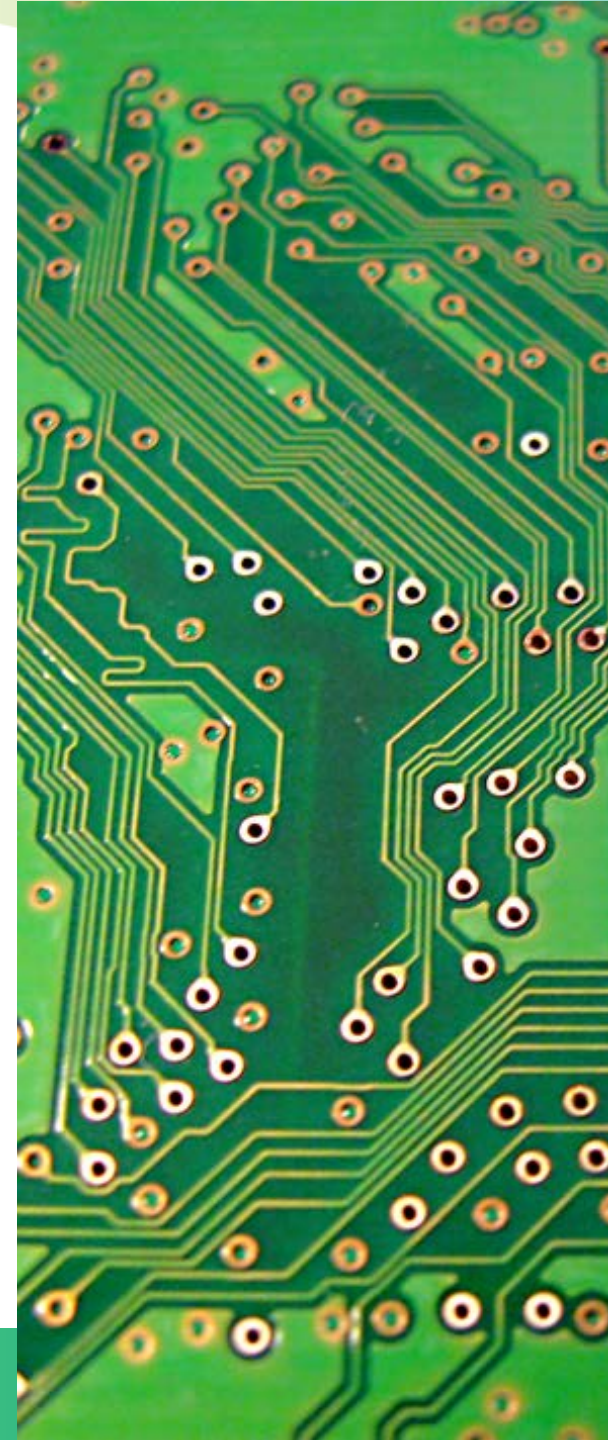
We're setting up the official registration page right now.

graphixshare.com

Stanford's [Introduction to Databases](#) and [Introduction to Machine Learning](#) are also available online this fall!

edX 2012

- Circuits and electronics
- 155,000 registered
- 7157 passed the course
- 160 countries



Comparison of Coursera, edX and Udacity, August 2012

| | Coursera | edX | Udacity |
|--------------------|--|---|---|
| For-profit? | Yes | No | Yes |
| Number of Students | 1,100,000+ | 155,000+ (MITx only) | 739,000 |
| Fees | None yet | \$100 for completion certificate after autumn 2012 cohort | \$80 for Pearson test (optional) |
| Funding | \$16m venture capital; \$6m from partners | \$30m each from MIT & Harvard; \$1m from Gates Fdn; more from private partners | Charles River Ventures, Sebastian Thrun (amounts unknown) |

Source: The Observatory on Borderless Higher Education, 2012



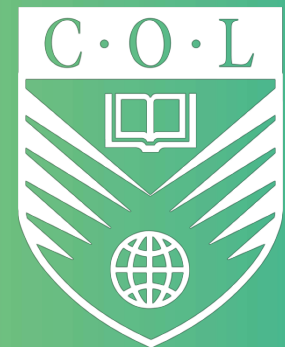
MOOCs: Advantages for developing countries

- Use the MOOC platforms to provide better learner support to larger numbers
- Reengineer MOOC to incorporate blended approaches to suit developing countries
- Use the research reports developed by the American universities to improve their own teaching

Trends: addressing core needs

- Need for Qualifications rather than value addition
- Emphasis on a range of technologies rather than only on computers
- State supported rather than driven by philanthropy

FROM COMMITMENT TO ACTION



This document



PROGRAMME



United Nations
Educational, Scientific and
Cultural Organization



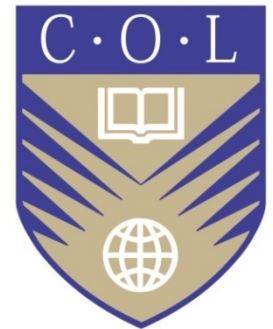
**2012 World
Open Educational Resources
Congress** Paris
20-22 June
UNESCO Headquarters
Paris, France

Fostering Governmental Support for Open Educational Resources Internationally



United Nations
Educational, Scientific and
Cultural Organization

THE WILLIAM AND FLORA
HEWLETT
FOUNDATION



World Congress on
Open Educational Resources
Paris – June 20-22 – 2012



Paris Declaration

Paris Declaration

- Foster awareness and use of OER
- Encourage the development and adaptation of OER in a variety of languages and cultural contexts
- Encourage the open licensing of educational materials produced with public funds.

18th CCEM Communique

Ministers emphasized the need

- *'to set up a common platform for OER materials for...ease of access'*
- *'for the development and use of OER in providing quality teaching and learning for all'.*



Directory of Open Educational Resource (DOER)

- Open Educational Resources directory service
- Only full courses catalogued
- A service provided by COL

The screenshot shows the Commonwealth Connects Portal (C2P) Directory of Open Educational Resources (DOER) website. The header features a colorful geometric logo on the left, the text "COMMONWEALTH CONNECTS PORTAL" and "DIRECTORY OF OPEN EDUCATIONAL RESOURCES" in the center, and "SERVICE PROVIDED BY" followed by the Commonwealth of Learning (COL) logo and "COMMONWEALTH OF LEARNING" on the right.

The main content area is divided into three columns:

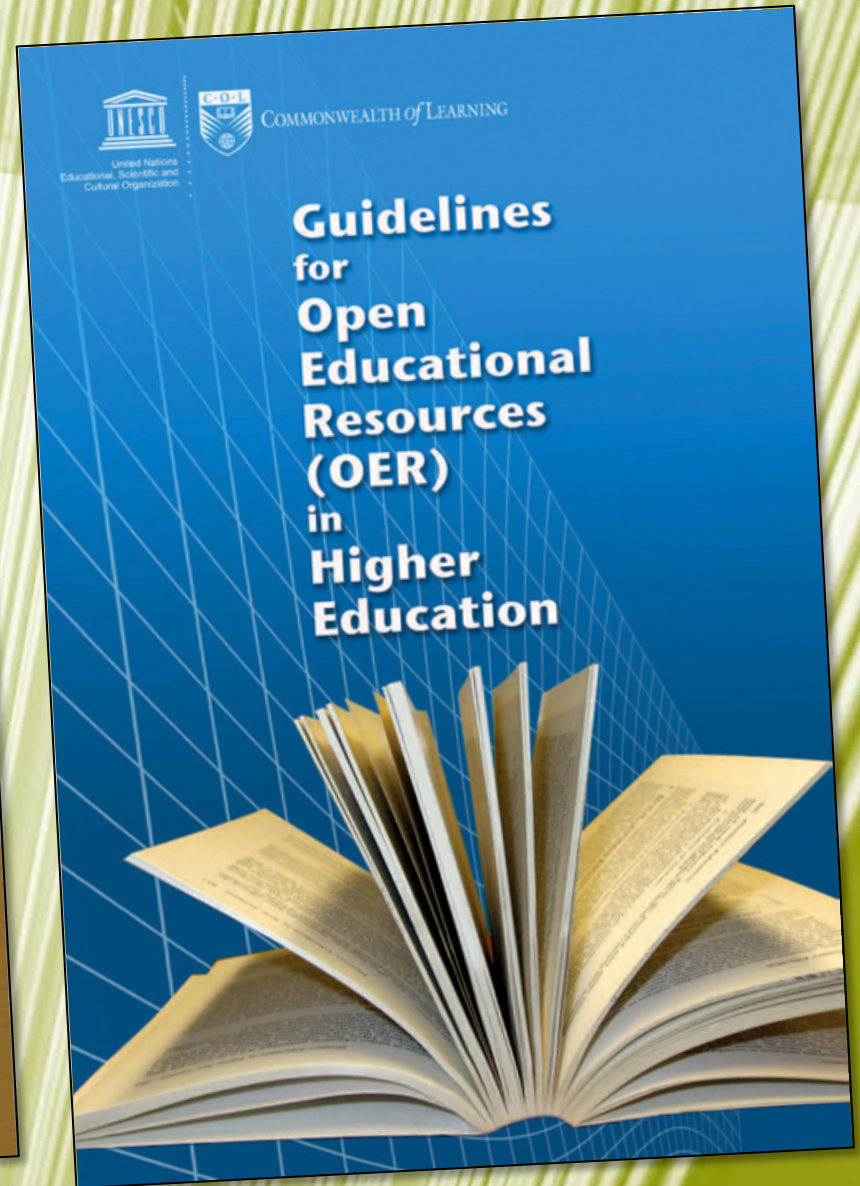
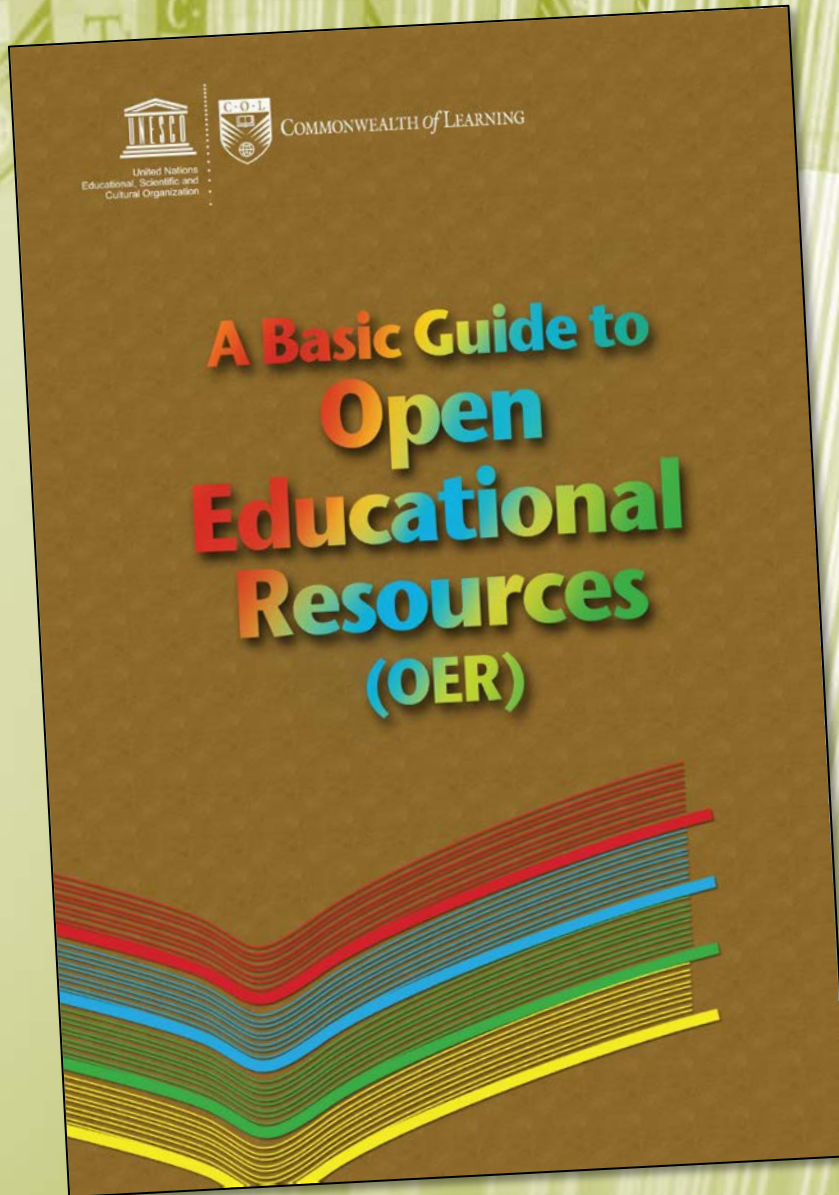
- Left Column:**
 - Search DSpace:** Includes a search input field with a "Go" button, a link to "Advanced Search Subject Search", and a "Home" link.
 - Browse:** Lists navigation options: "Communities & Collections", "Issue Date", "Author", "Title", "Subject", "Edutags", and "Publisher".
 - Sign on to:** Includes a link to "Receive email updates".
- Middle Column:**
 - Header: "C2P: Open Educational Resources >"
 - DSpace:** A welcome message: "Welcome to C2P: Open Educational Resources DSpace directory service!"
 - Search:** A section with the text "Enter some text in the box below to search DSpace." and a search input field with a "Go" button.
 - Communities in DSpace:** A section with the text "Choose a community to browse its collections."
- Right Column:**
 - C2P: Open Educational Resources:** A title for the right-hand content.
 - Text: "Open Educational Resources from the Commonwealth Universities."
 - RSS Feeds:** Two RSS feed buttons labeled "RSS 1.0" and "RSS 2.0".

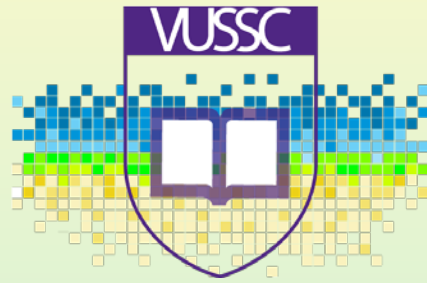
Statistics: Publishers

Total: 1150

| | Publisher | Total |
|----|---|-------|
| 1 | African Virtual University | 70 |
| 2 | Athabasca University | 10 |
| 3 | AU Press | 5 |
| 4 | Capilano University | 20 |
| 5 | GetSmarter | 1 |
| 6 | HSRC Press | 2 |
| 7 | Indira Gandhi National Open University | 113 |
| 8 | Intercultural and Diversity Studies of Southern Africa | 1 |
| 9 | Kwame Nkrumah University Of Science & Technology | 13 |
| 10 | National Open University of Nigeria | 346 |
| 11 | National Programme on Technology Enhanced Learning | 121 |
| 12 | Otago Polytechnic | 37 |
| 13 | Quantum computing | 1 |
| 14 | The Open University | 288 |
| 15 | The University of British Columbia | 1 |
| 16 | United Nations University | 2 |
| 17 | University College Falmouth | 2 |
| 18 | University of Cape Town | 64 |
| 19 | University of Nottingham | 26 |
| 20 | University of Oxford | 10 |
| 21 | University of Southern Queensland | 10 |
| 22 | Virtual University for Small States of the Commonwealth | 7 |

COL Resources





The Virtual University for Small States of the Commonwealth

Disaster management

Sustainable agriculture

Business & Entrepreneurship



COMMONWEALTH of LEARNING



International developments: OERU

- Athabasca University
- Otago Polytechnic
- University of Southern Queensland





James
Taylor



Students
awarded
credible degree or
credential



Participating
Institutions grant
credit for
courses



Open assessment
from participating
institutions



Open student
support via
“Academic Volunteers
International”



Learners
access courses
based solely
on OER



The OER university concept. Adapted from Taylor (2007)

OER and Textbooks

- **Brazil:** a study found that for 75% of students at University of São Paulo, the cost of acquiring books was higher than the family's monthly income.
- **USA:** textbook costs 4 times the rate of inflation in last 2 decades: Washington State: OER Textbooks for Community Colleges
- **South Africa:** R 1.5 billion for textbooks: Department of Basic Education decides to develop OER textbooks

National Governments can

- Develop an ICT in Education policy
- Propose a vision and strategy for OERs at all levels of education
- Recognise OER-development at par with academic publications to reward faculty in promotions

Institutions can

- develop an ICT policy within the institution
- elaborate a policy on copyright
- provide incentives for faculty members such as increments and recognition of OER-development towards promotions
- make the development of OER a job requirement at the time of recruitment

The OER movement can democratise education by

- Involving different stakeholders to participate, collaborate, create and share;
- Encouraging consumers to become the producers of knowledge;
- Enabling us to harness the wealth of tacit knowledge across the globe to address the great development challenges of our time.

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'Learning Unlimited'

Seri Pacific Hotel
Kuala Lumpur
Malaysia
12-13 December 2012

Thank you
www.col.org

