



COMMONWEALTH *of* LEARNING



International Conference
on Science and Technology
for Economic Diversification
2013

Democratising HE through OER: what are the possibilities?

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

7 June 2013

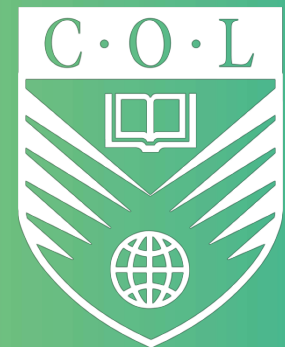


Plan

- Context of HE
- Rise of OER
- Are MOOCs the answer?
- The possibilities

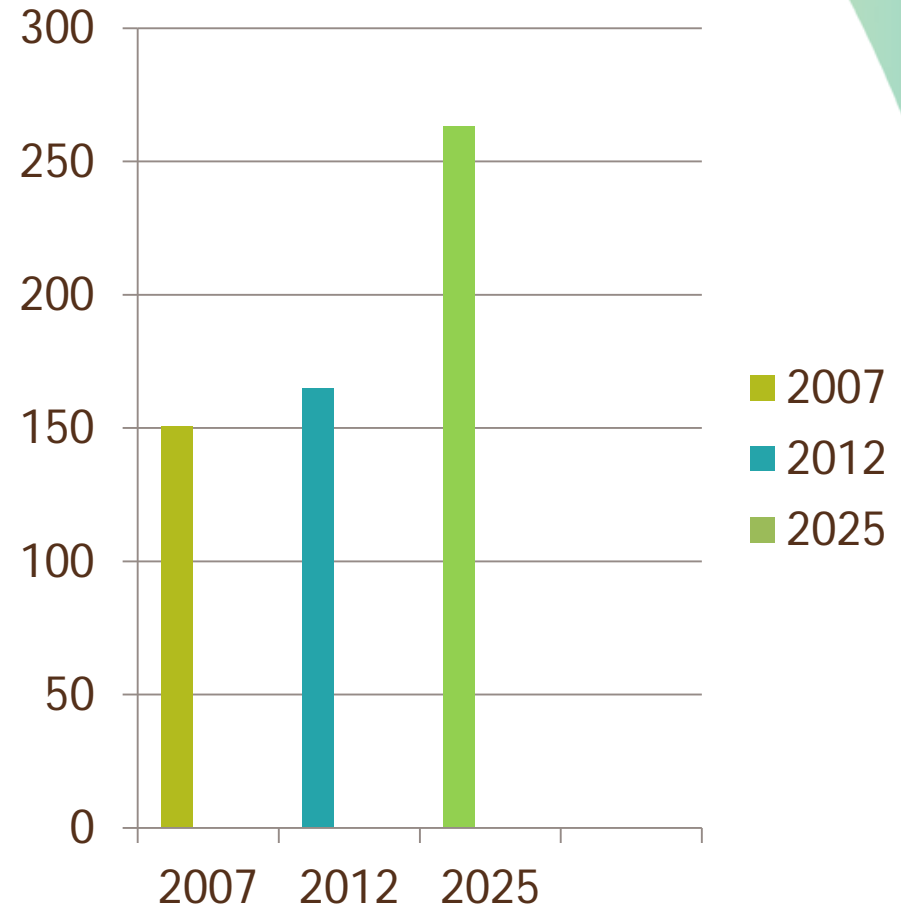


CONTEXT OF HIGHER EDUCATION

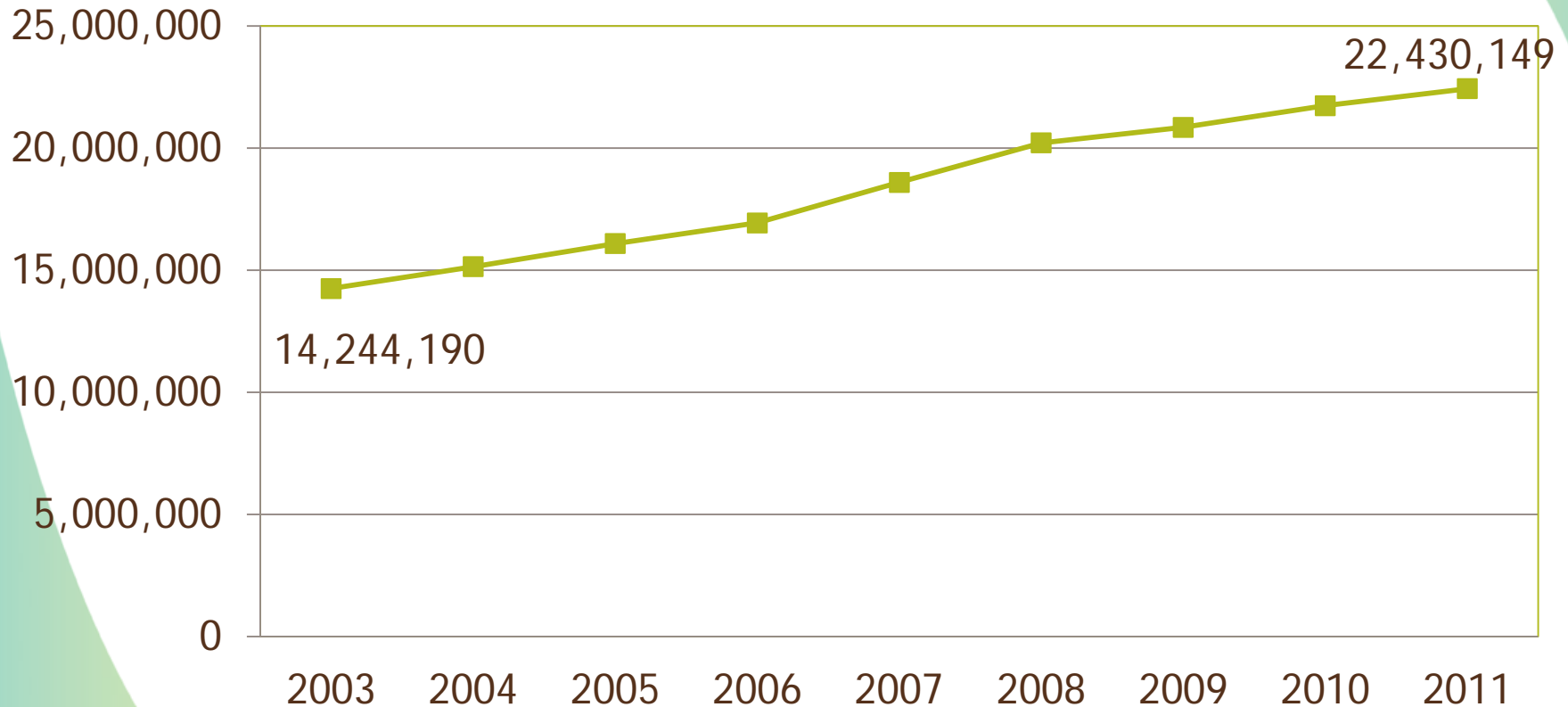


Exploding demand for HE

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



Tertiary Enrolment - Latin America & Caribbean



Source: UNESCO Institute for Statistics Education Database <http://stats.uis.unesco.org>

Huge demand:

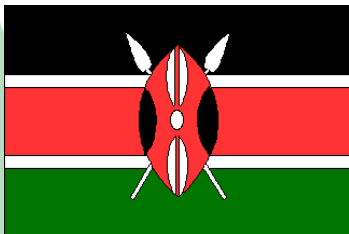


UWI enrolment

20,000(2000-2001) to 43,579(2008-2009)



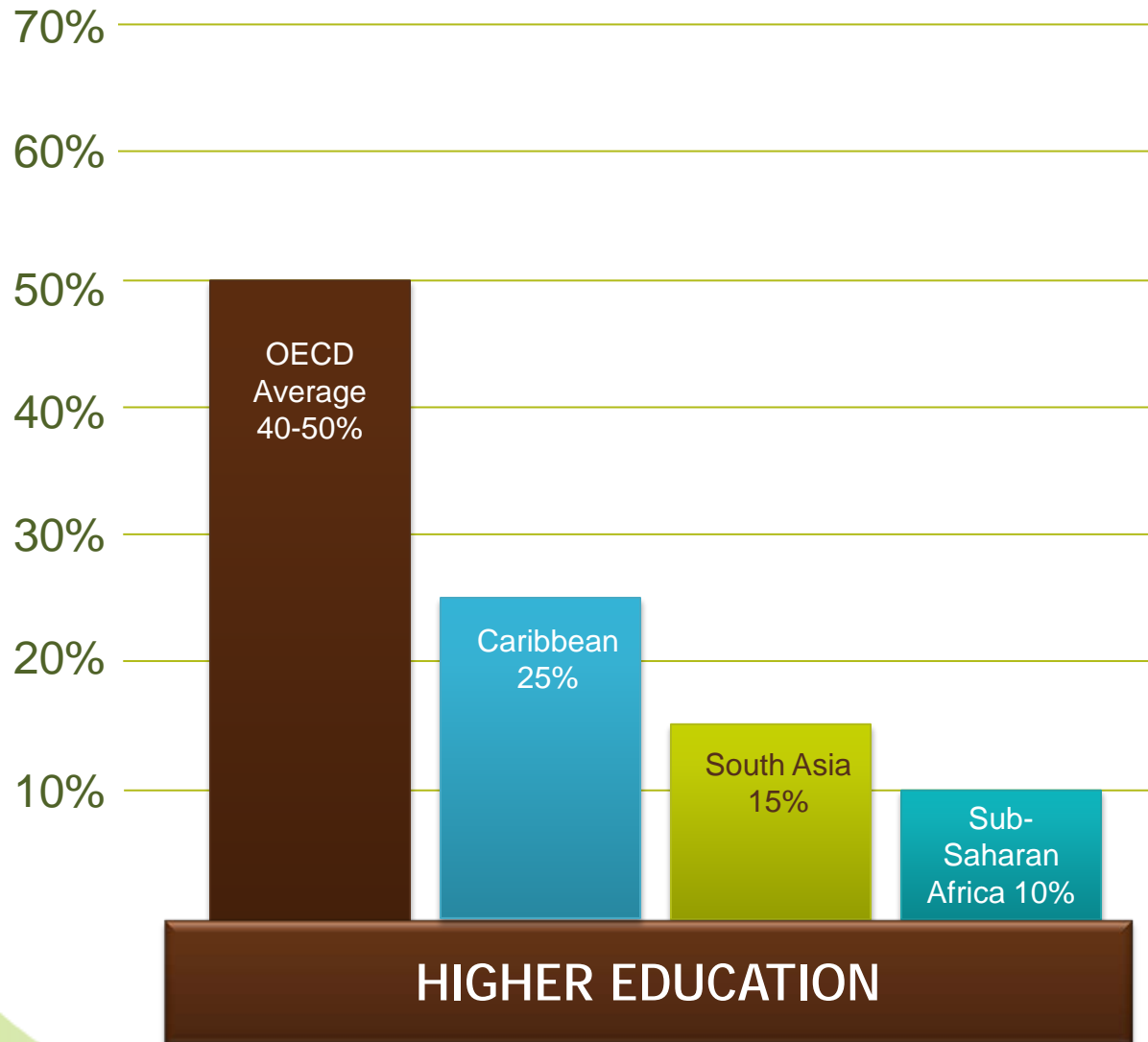
800 universities by 2020



Public universities

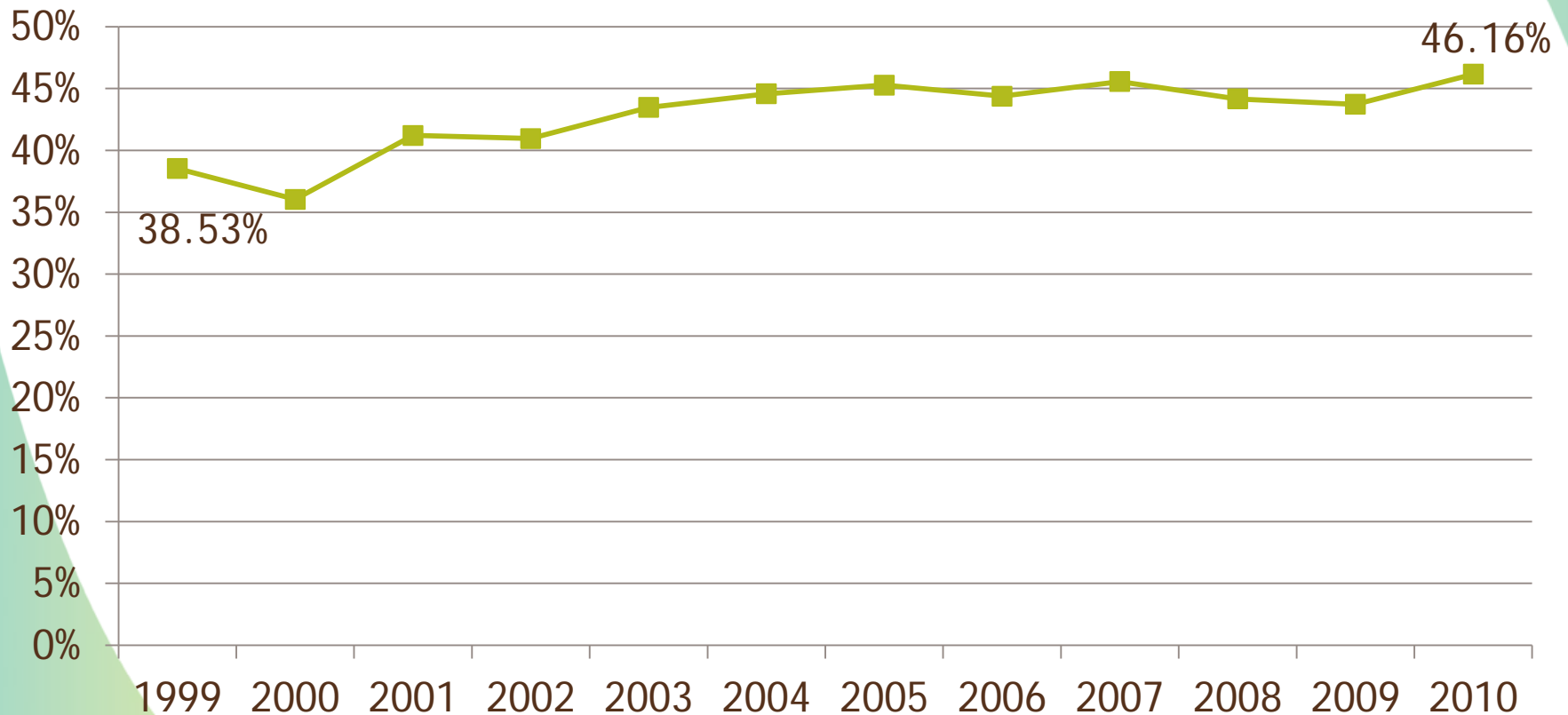
9,000 out of 40,000

Access to Higher Education



The rise of private provision

Tertiary Enrolment in Private Sector - Global



Source: UNESCO Institute for Statistics Education Database <http://stats.uis.unesco.org>

Private Provision in the Caribbean



Belize: 96%



Antigua & Barbuda: 70%



Jamaica: 40%

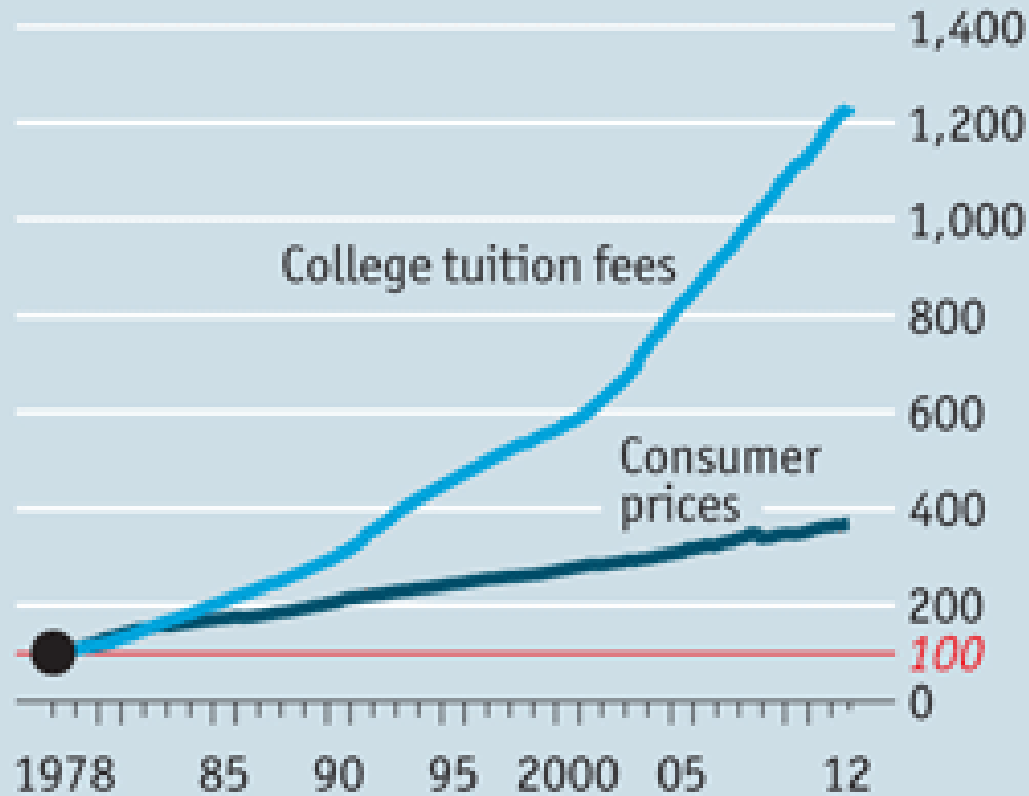
Sources: A New Dynamic: Private Higher Education , UNESCO, World Conference on Higher Education; UNESCO Global Education Digest, 2010
UIS Data Centre | UNESCO Institute for Statistics (Observed data):

http://data.un.org/Data.aspx?d=UNESCO&f=series%3aPRP_56

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.](#)

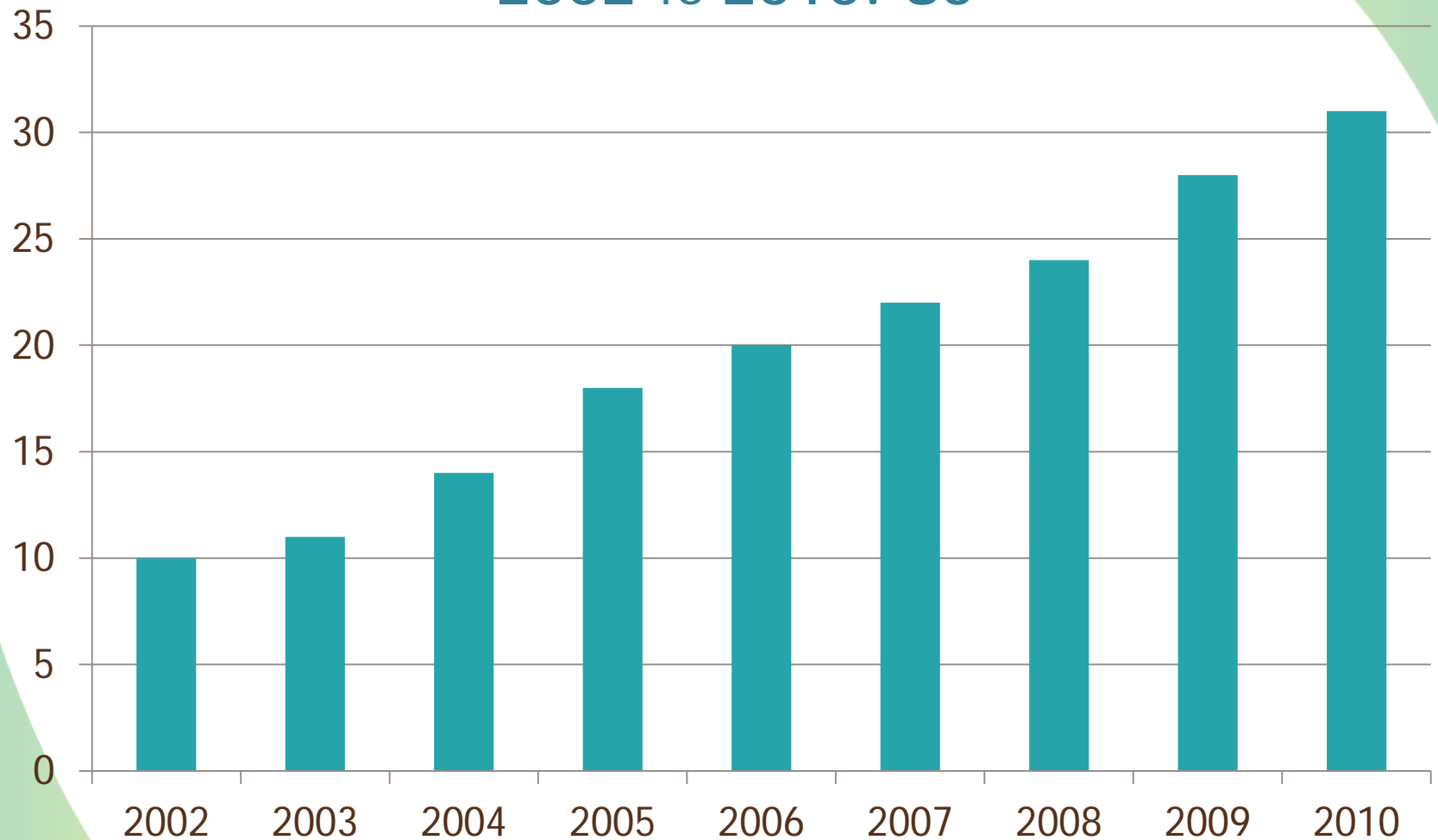


- IGNOU
- UKOU
- AIOU
- Athabasca
- Open University of Malaysia
- Open University of Tanzania
- National Open University of Nigeria
- Netaji Subhash Open University
- Bangladesh Open University
- BRAOU, Hyderabad, India
- YCMOU, Nashik, India
- MPBOU, Madhya Pradesh, India
- UNISA, South Africa 110,000
- 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



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



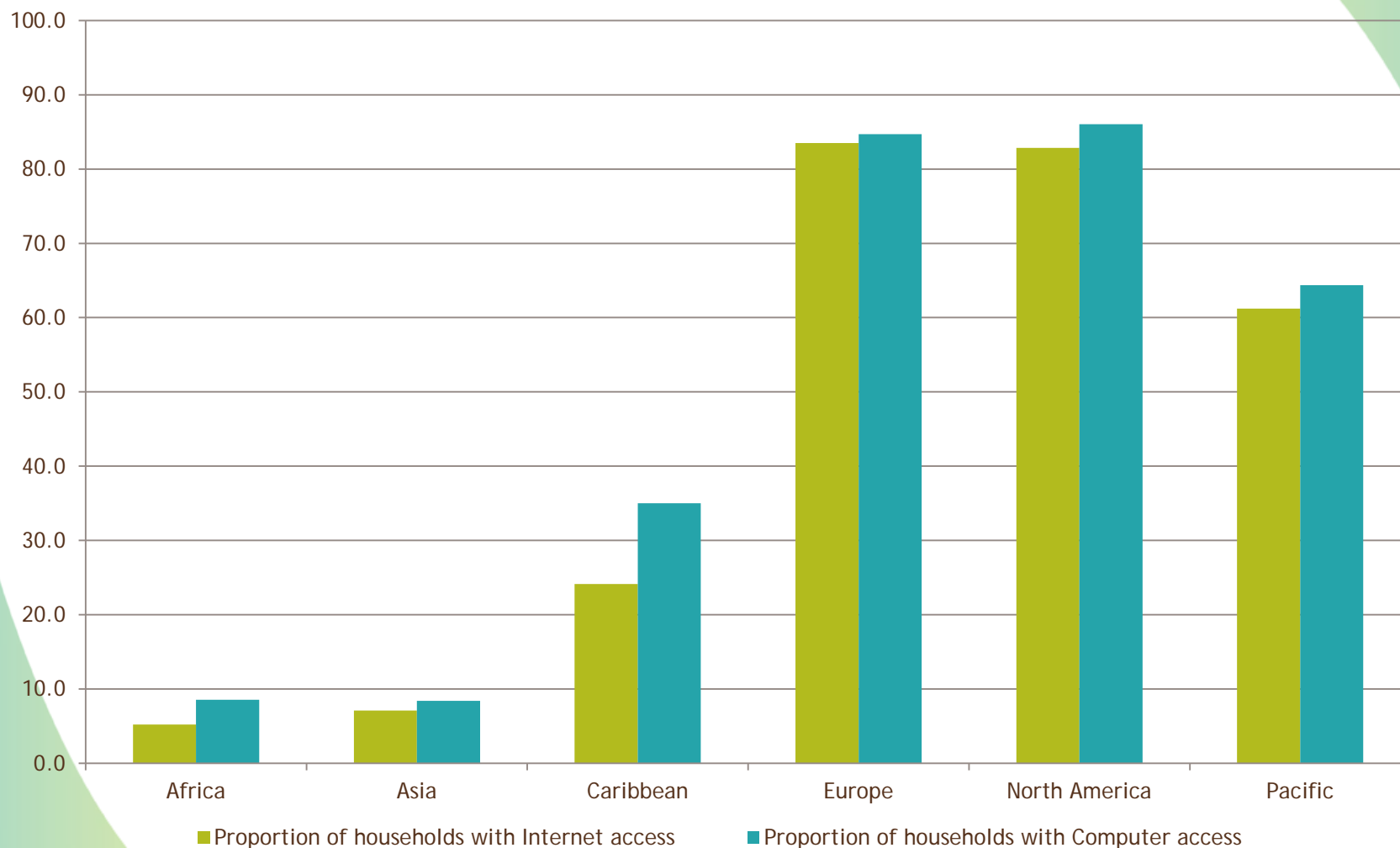
Going the Distance – Online Education in the United States, 2011, I.E. Allen and J. Seaman.

Online enrolments in Asia and Latin America

- Asia has highest growth in the world at 17.3%
e.g. Vietnam: 44.3% Malaysia: 39.4%
- The growth rate in Latin America is 14.6%
e.g. Brazil: 21.5% Columbia 18.6%

Ambient Insight Regional Report, October, 2012

The Digital Divide (Commonwealth countries)

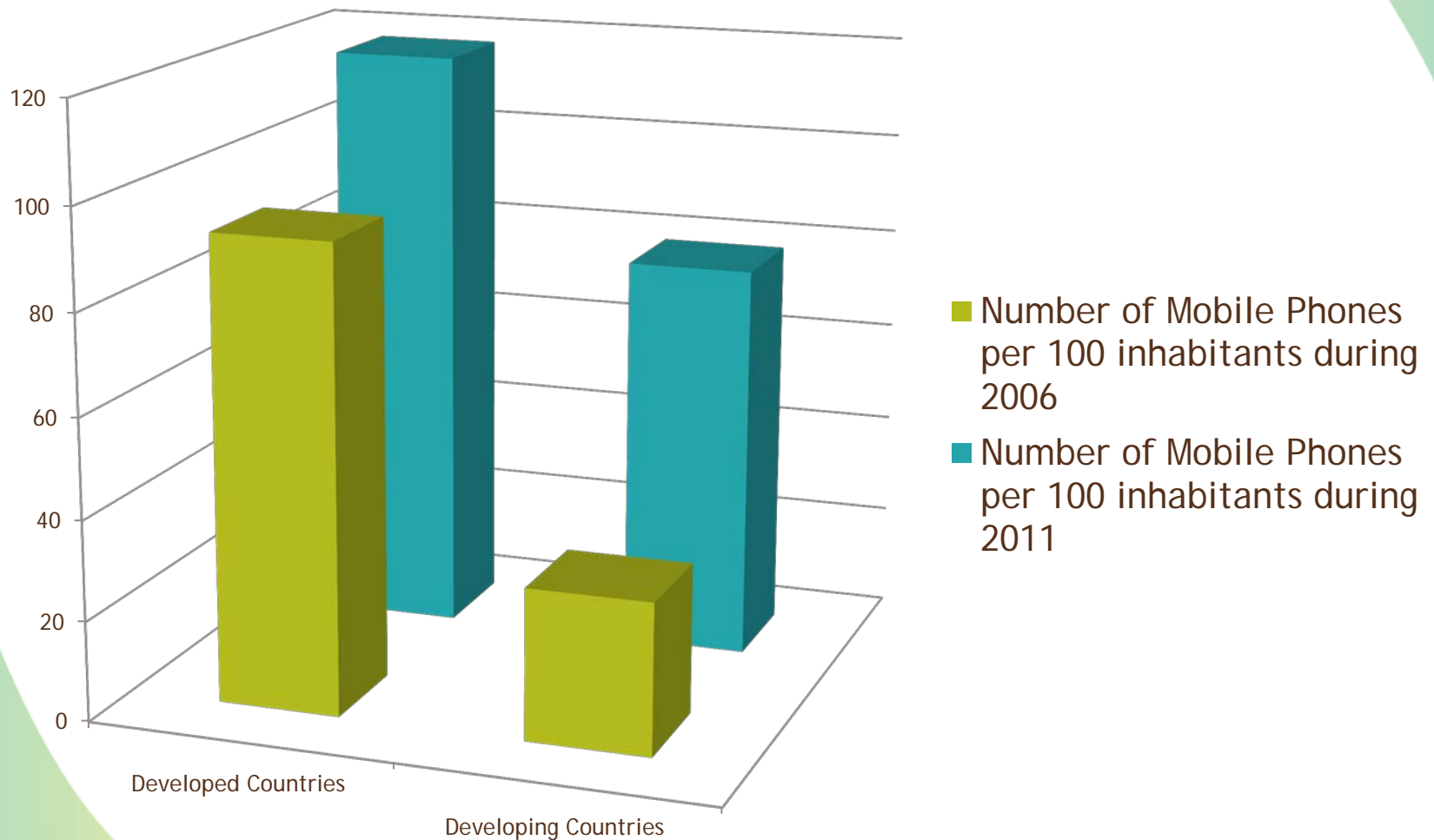


Source: International Telecommunications Union

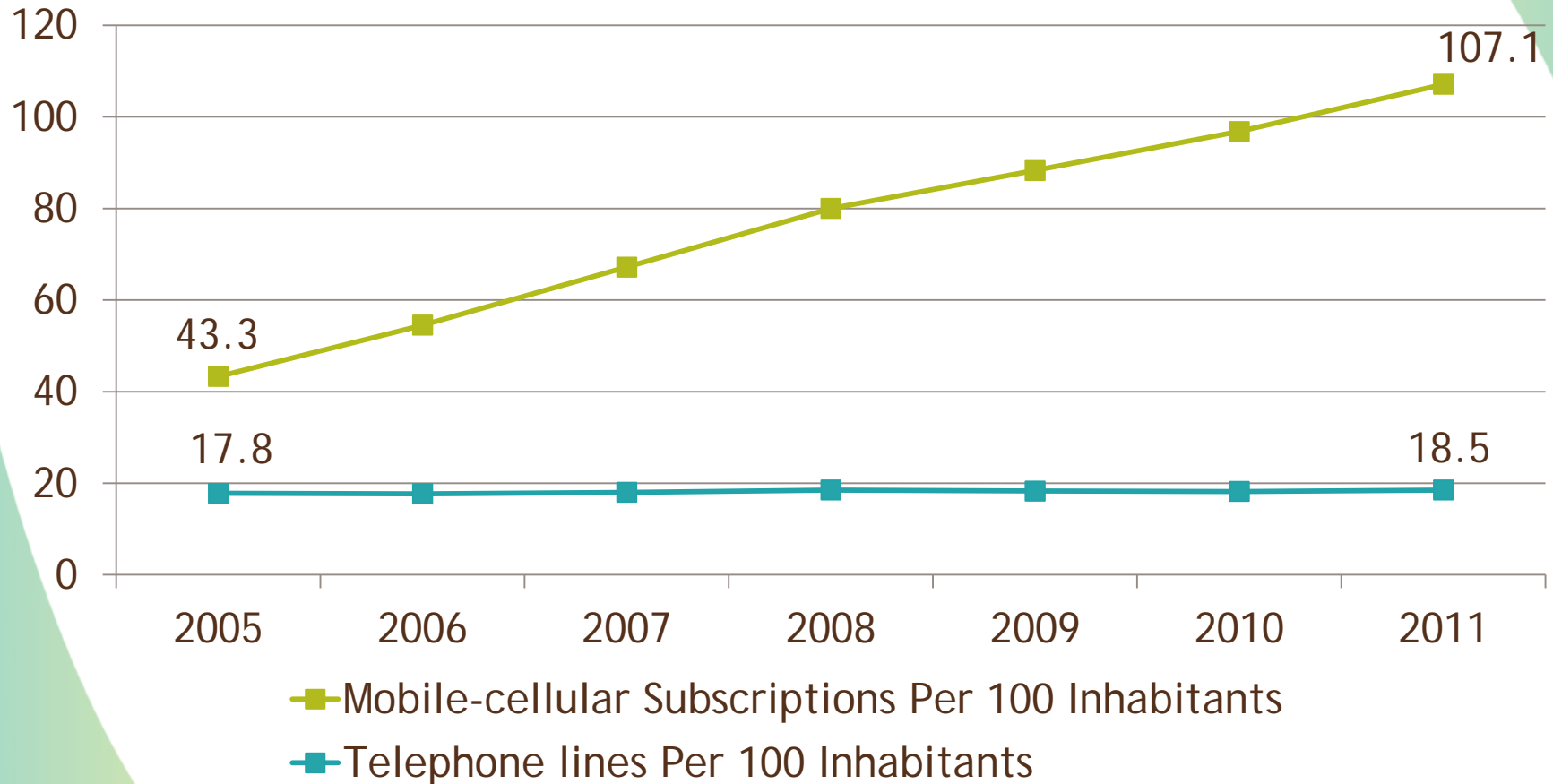
<http://www.itu.int/ITU-D/ICTEYE/Reporting/DynamicReportWizard.aspx>



Expansion in Mobile Phones



ICT in Latin America & Caribbean - Mobiles



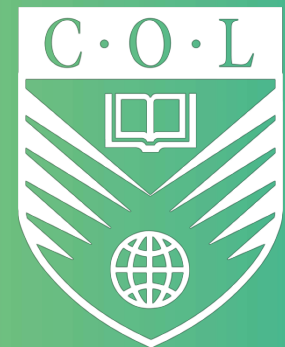
Source: World DataBank <http://databank.worldbank.org/data/views/reports/tableview.aspx>

From digital divide to digital dividend

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



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

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 per trainee?

- 20 teacher education programmes in 13 countries
- Materials available in 4 languages
- In 2010, 320,000 teachers benefited



Teacher Education in Sub-Saharan Africa

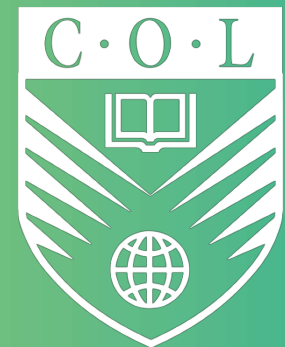
OER Survey, Asia, 2011 (WOU, IDRC)

- **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

STANFORD ENGINEERING

INTRODUCTION TO

Artificial Intelligence

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

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!



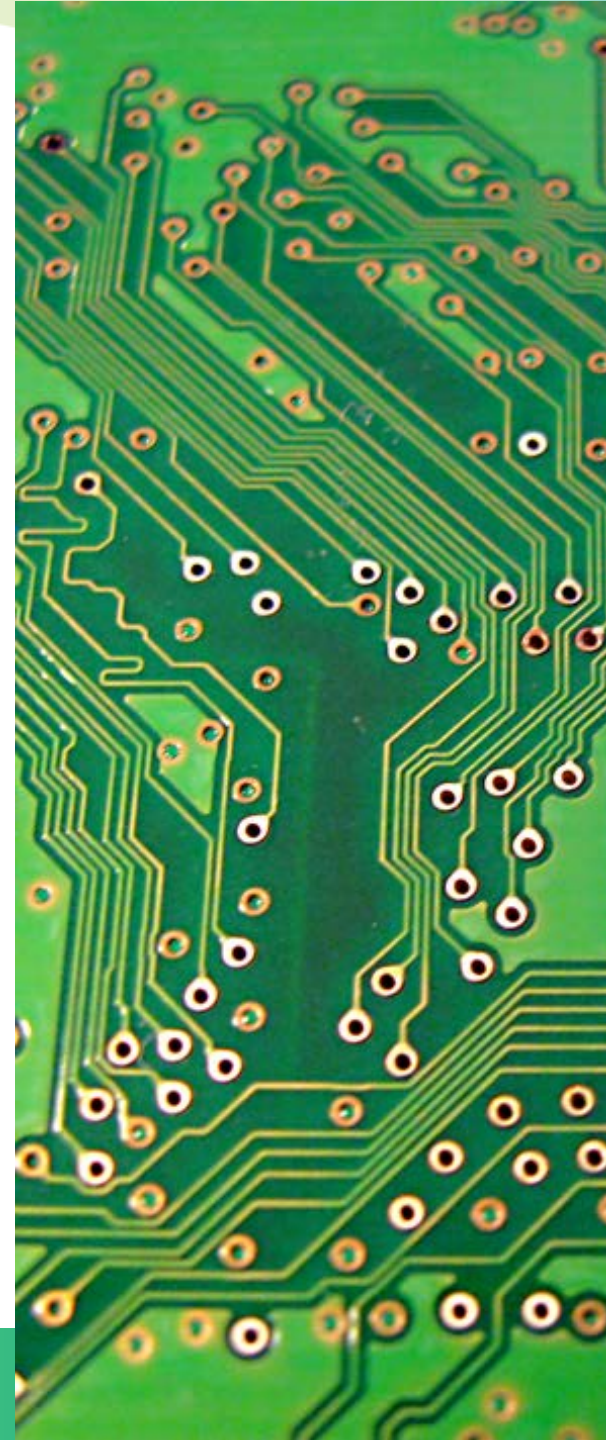
Sebastian Thrun

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 fifth most creative 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 100. His self-driving car was

edX 2012

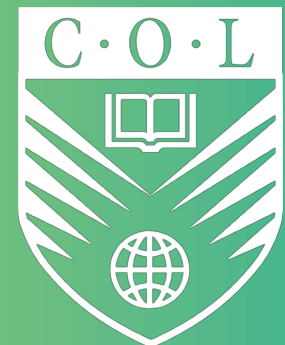
- Circuits and electronics
- 155,000 registered
- 7157 passed the course
- 160 countries



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

WHAT ARE THE POSSIBILITIES?



10 Caribbean jurisdictions reported on the status of OER

Barbados, January 2012

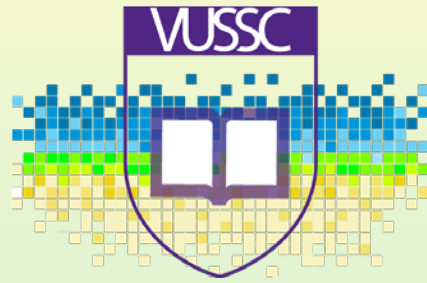
Antigua & Barbuda	The Bahamas
Belize	Grenada
Guyana	Jamaica
St. Vincent & the Grenadines	St. Kitts & Nevis
Trinidad & Tobago	Cayman Islands



Caribbean OER Policy Forum

National Governments can

- Develop an ICT in Education policy
- Propose a vision and strategy for OERs at all levels of education
- Develop a policy on copyright



The Virtual University for Small States of the Commonwealth

Disaster management

Sustainable agriculture

Business & Entrepreneurship



COMMONWEALTH of LEARNING



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

The main content area is divided into three columns:

- Left Column:** Contains a "Search DSpace" section with a search box and a "Go" button, followed by links for "Advanced Search" and "Subject Search". Below this is a "Browse" section with a list of categories: Home, Communities & Collections, Issue Date, Author, Title, Subject, Edutags, and Publisher. At the bottom is a "Sign on to:" section with a link for "Receive email updates".
- Middle Column:** Displays the breadcrumb "C2P: Open Educational Resources >" and a "DSpace" section with the text "Welcome to C2P: Open Educational Resources DSpace directory service!". Below this is a "Search" section with a search box and a "Go" button, and a "Communities in DSpace" section with the text "Choose a community to browse its collections."
- Right Column:** Features a "C2P: Open Educational Resources" section with the text "Open Educational Resources from the Commonwealth Universities." and an "RSS Feeds" section with two RSS feed buttons labeled "RSS 1.0" and "RSS 2.0".

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”



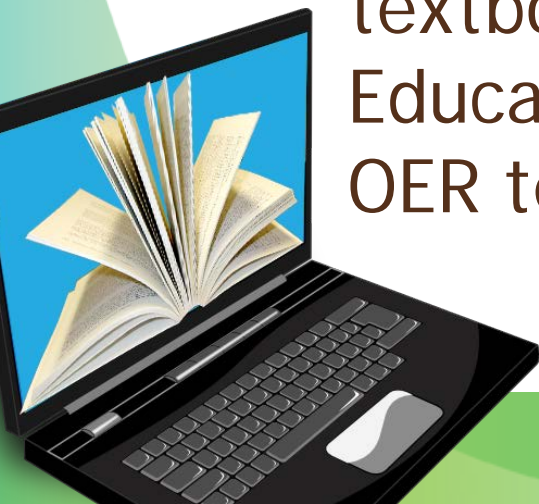
Learners
access courses
based solely
on OER



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:** Utah Open Textbooks project: \$5 per printed and zero for online content
- **South Africa:** R 1.5 billion for textbooks: Department of Basic Education decides to develop OER textbooks.



Udacity + Georgia Tech

- Masters in Computer Science: \$7,000
- Existing cost: \$40,000
- Will reach 10,000 within the next 3 years



MOOC on software architecture & cloud computing: IIT (Kanpur)

- 3 options: open, registration required for assignments, fees (\$18) for certification
- 1000 joined
- 470 paid: 370 completed successfully (79%)

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.

The background features a large, semi-transparent white circle on the left side. Overlaid on this and the rest of the page are numerous semi-transparent squares in various colors including purple, green, blue, and yellow, arranged in a grid-like pattern. The text is centered within the white circle.

Thank you
www.col.org