



COMMONWEALTH of LEARNING



हैदराबाद विश्वविद्यालय
UNIVERSITY OF HYDERABAD

दूर और वास्तविक शिक्षा केन्द्र
CENTRE FOR DISTANCE AND VIRTUAL LEARNING

ICT Based Learning: Challenges and Prospects
**Emerging Developments in ICT
Based Learning: implications
for Higher Education**

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December 19, 2012



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Access to Learning is the Key
to Development

Created by the Commonwealth
Heads of Government

Intergovernmental Organization
of 54 Commonwealth Countries.





COMMONWEALTH *of* LEARNING

WHAT IS IT FOR?

To help Commonwealth governments and institutions use various technologies to improve and expand learning for development

Plan

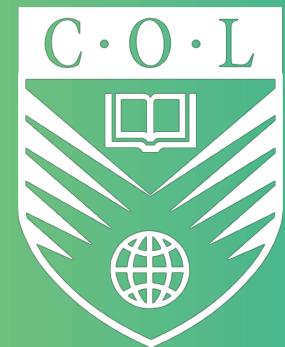
Emerging developments

- Online learning
- OER
- MOOCs

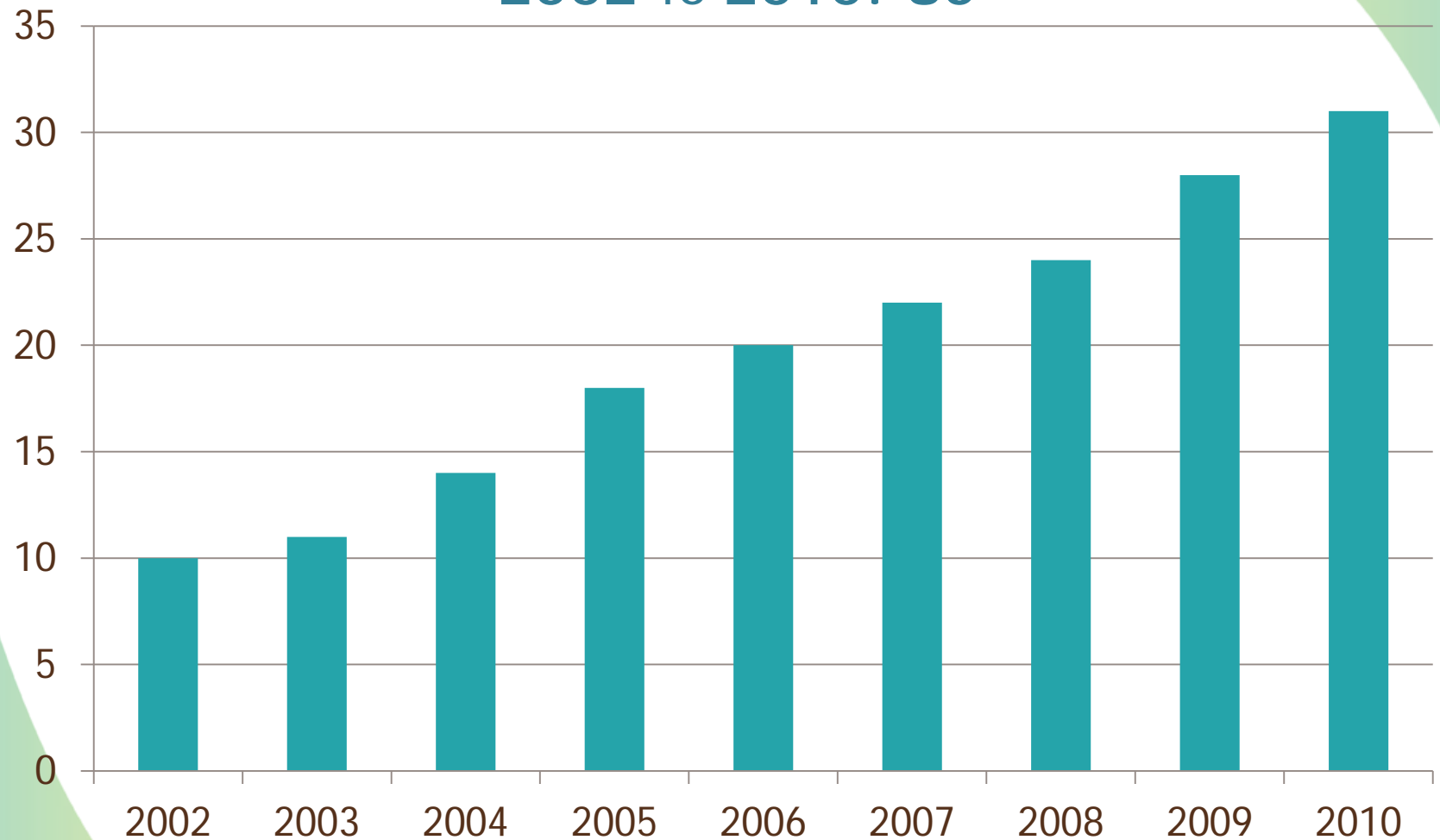
Implications for HE



EMERGING DEVELOPMENTS



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



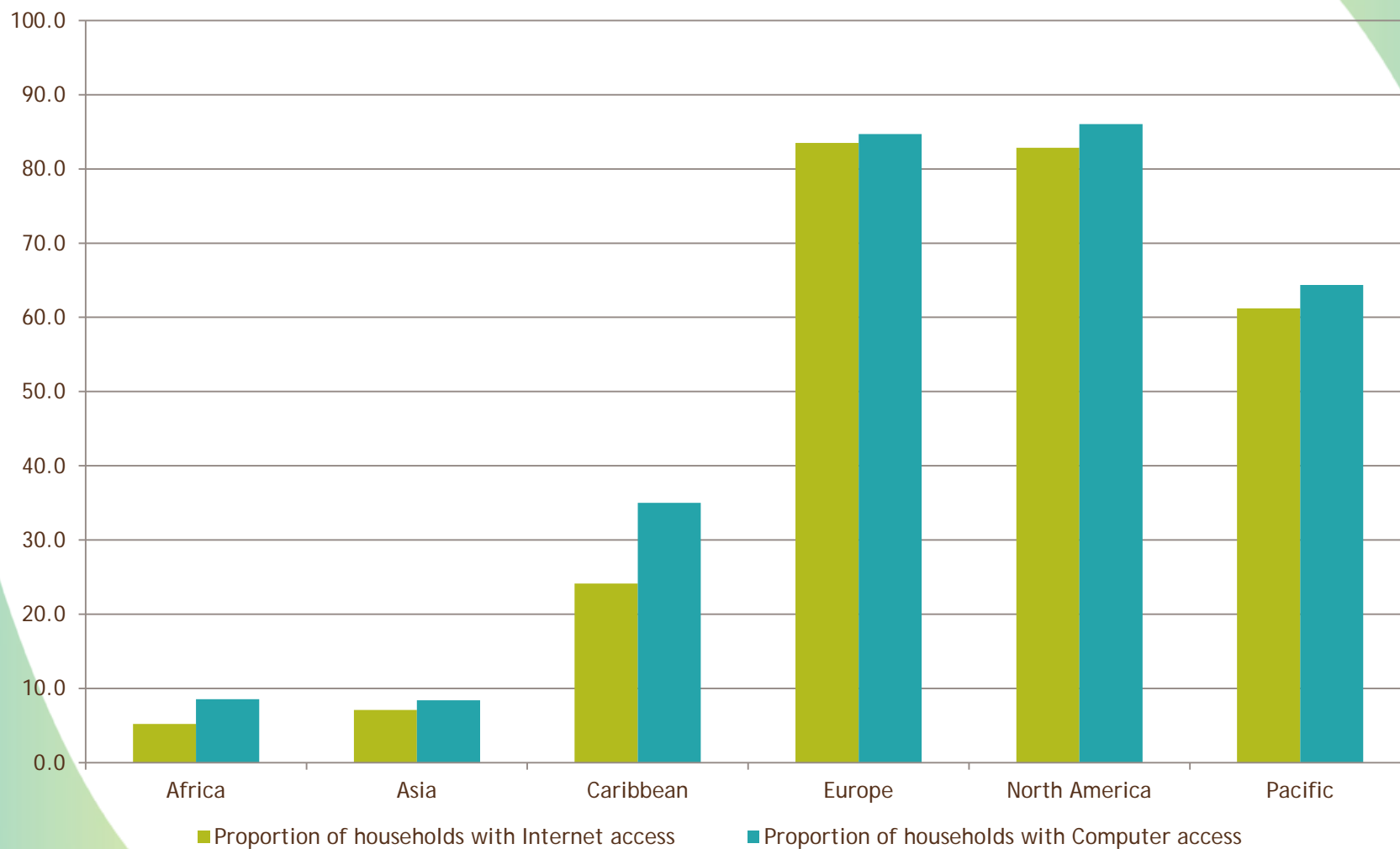
Going the Distance – Online Education in the United States, 2011, I.E. Allen and J. Seaman.

Online enrolments in Asia

- Highest growth in the world at 17.3%
- Vietnam: 44.3%
- Malaysia: 39.4%

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>

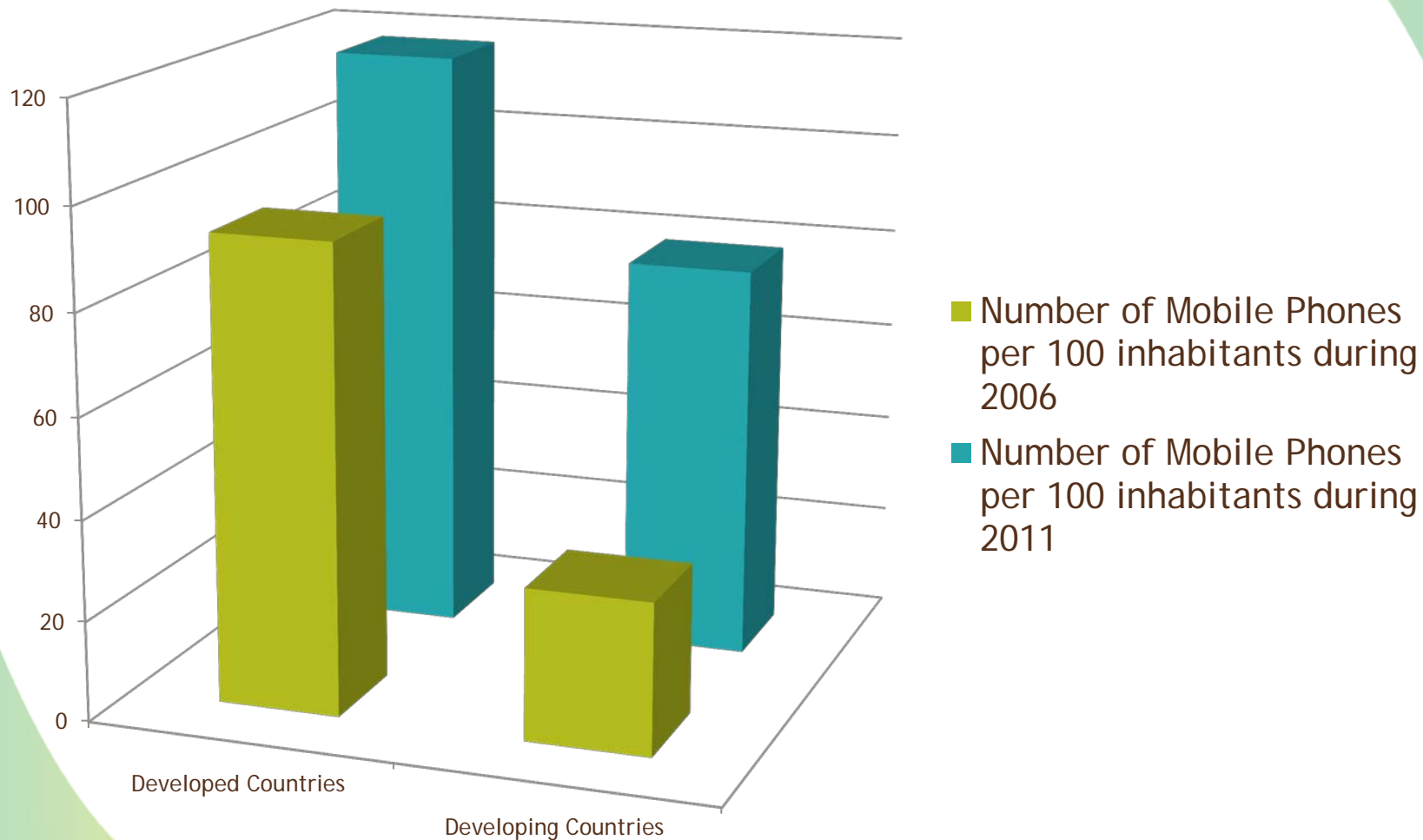


From digital divide to digital dividend

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



Expansion in Mobile Phones





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

Access: Malawi

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



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?

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



Teacher Education in Sub-Saharan Africa

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)

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 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 Ten. His self-driving car was

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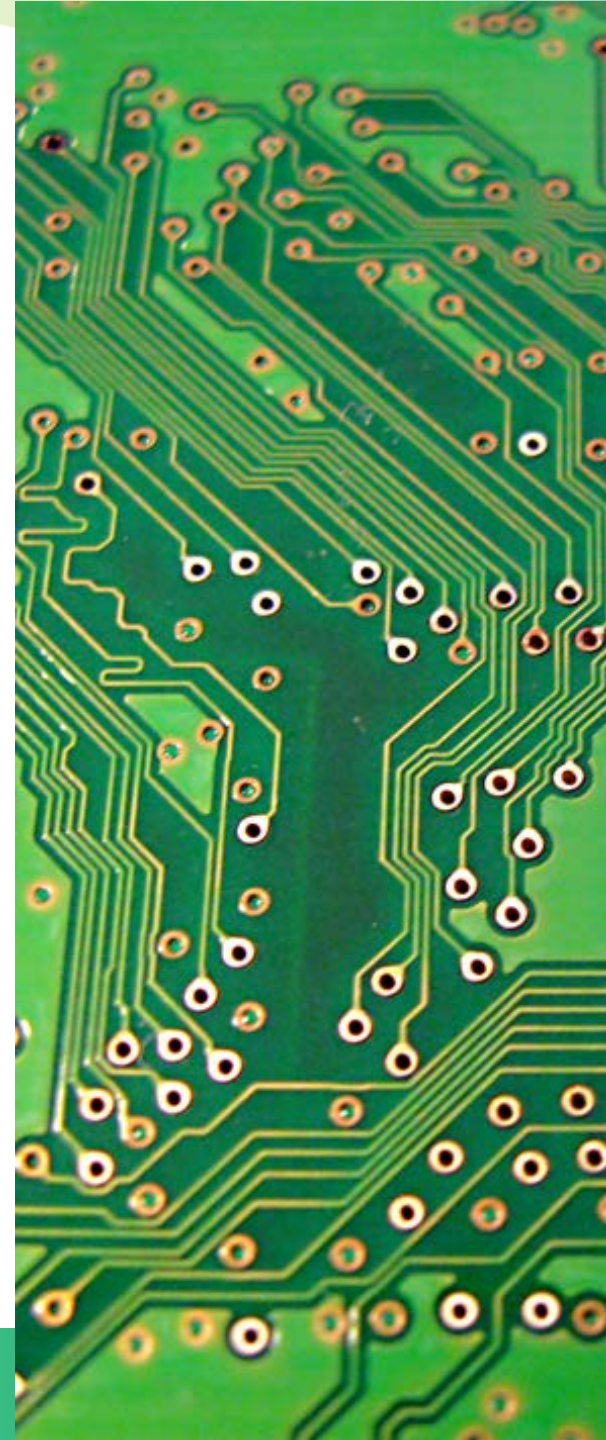
We're setting up the official registration page right now.

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



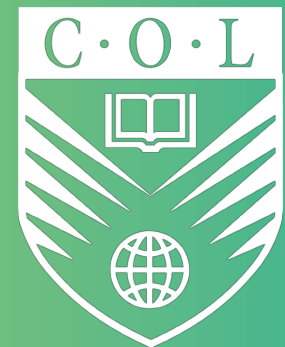
Comparison of Coursera, edX and Udacity, August 2012

	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



IMPLICATIONS FOR HE



MOOCs: Advantages for developing world institutions

- 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

Implications for Higher Education

- Delinking where we learn from where we receive qualifications;
- Diversify provision from full services to services that the learner can choose, increasing flexibility;
- Collaboration rather than competition.

Institutions can

- develop an ICT policy
- elaborate a policy on copyright
- provide incentives for faculty members such as increments and recognition of OER-development towards promotions
- Arrangements for credit transfers

Thank you
www.col.org

