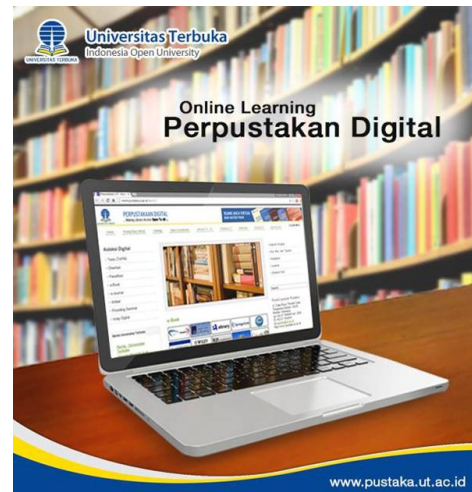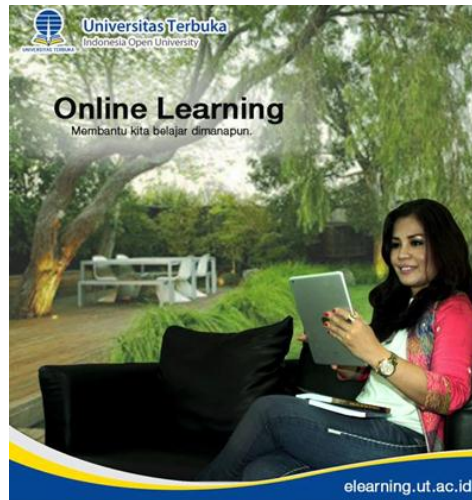# ONLINE LEARNING
@ UNIVERSITAS TERBUKA
The Indonesia Open University

Tian Belawati

*Rector, Universitas Terbuka &
President, the International Council for Open and Distance
Education (ICDE)*

**@ Educating Online in South East Asia,
Kuala Lumpur, 6 Mei 2015**

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Online learning: learning through the Internet, where the learners are separated from the teachers/professors in place/space and (perhaps) time

Online learning = Distance learning through the Internet

Generations of Open & Distance Learning

- *The **correspondence** model* - Print
- *The **multimedia** model* - Print, Audiotape, Videotape, Computer-based learning (e.g. CML/CAL), Interactive video (disk and tape)
- *The **tele-learning** model* - Audio-teleconferencing, Videoconferencing, Audiographic Communication, Broadcast TV/Radio and Audio-teleconferencing

open university

All are being used depends on **ACTIONS**

- *The **flexible learning** model* - Interactive multimedia (IMM), Internet-based access to WWW resources, Computer-mediated communication
- *The **intelligent flexible learning** model – all* + Computer mediated communication, using automated response systems
- The ***networked/connectivism model*** - Interactive Internet-based, use of OER, social media communication .

E-learning, mobile learning, ubiquitous learning, dll.

MOOCs

Facilitating Factors

- **The emergence of new technologies**
  - Hardware is getting smaller and cheaper
  - Software is getting more interactive - new generation of www

- **Global open movement**
  - Open source software
  - Open content (*Learning Object , Open Courseware, OERs*)
  - Open licensing (*Creative Commons*)
  - Open badging

Everyone writes, makes videos, publishes, shares, comments …..
everyone reads, watches, downloads, uses, remixes, republishes …..
Giving birth to the sharing paradigm/culture

As a result …..

- **Online education grows continuously all over the world:**
  - ✓ from non-degree to degree oriented
  - ✓ from paying fee to free programs/courses (including MOOC and its derivations)
  - ✓ From fully online to only supplementary of classroom teaching (blended, distributed, hybrid)
- **More HE institutions include online learning in their strategic plan**
- **Convergence of face-to-face learning with online learning**
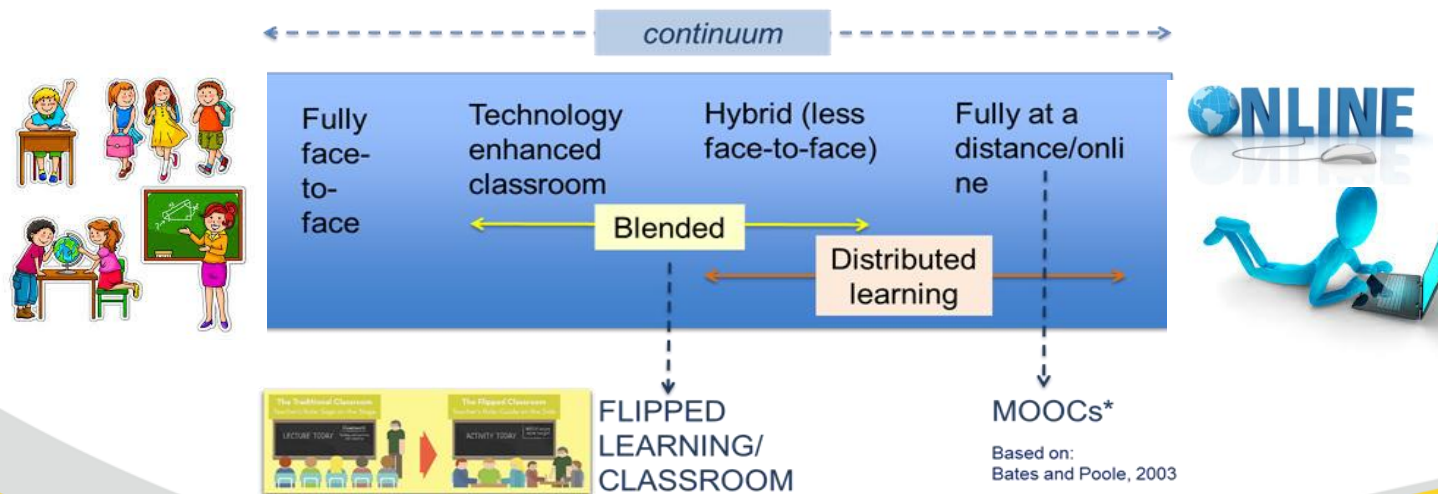
Growth in Global E-learning Value

Growth by region (2011-2016)
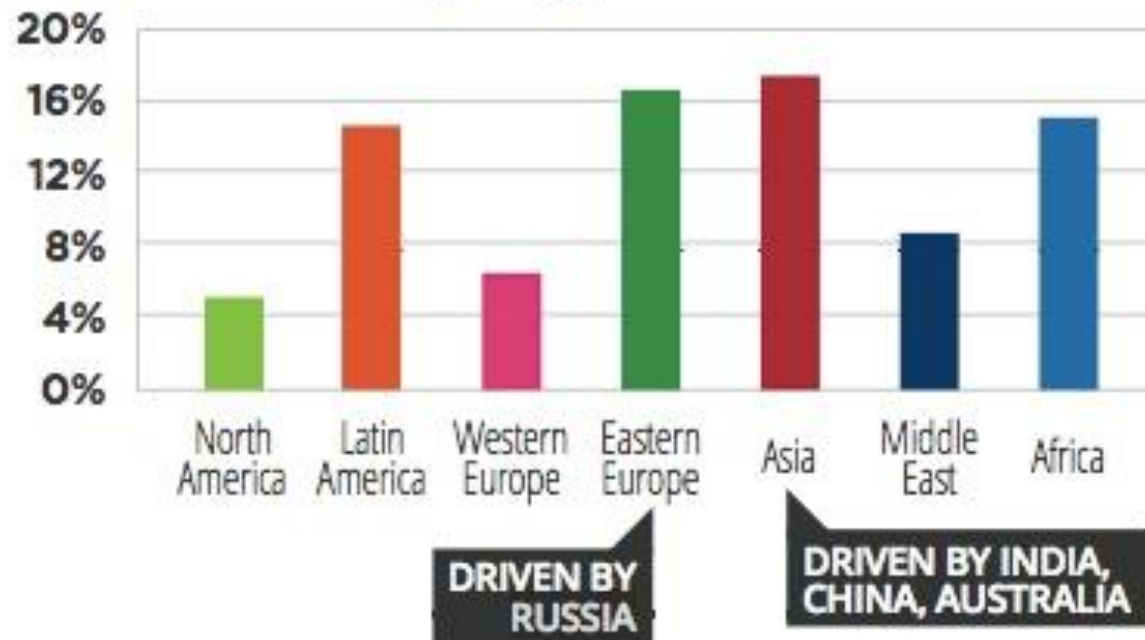
- The worldwide market value of E-Learning reached $35.6 billion in 2011.
- The five-year compound annual growth rate is estimated at around 7.6% (Infographic :9.2%)
- Revenues should reach some $51.5 billion by 2016 (Infographic: $107 billion by 2015).

Top 10 Growth Rates By Country

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- The growth rate of eLearning by country is :
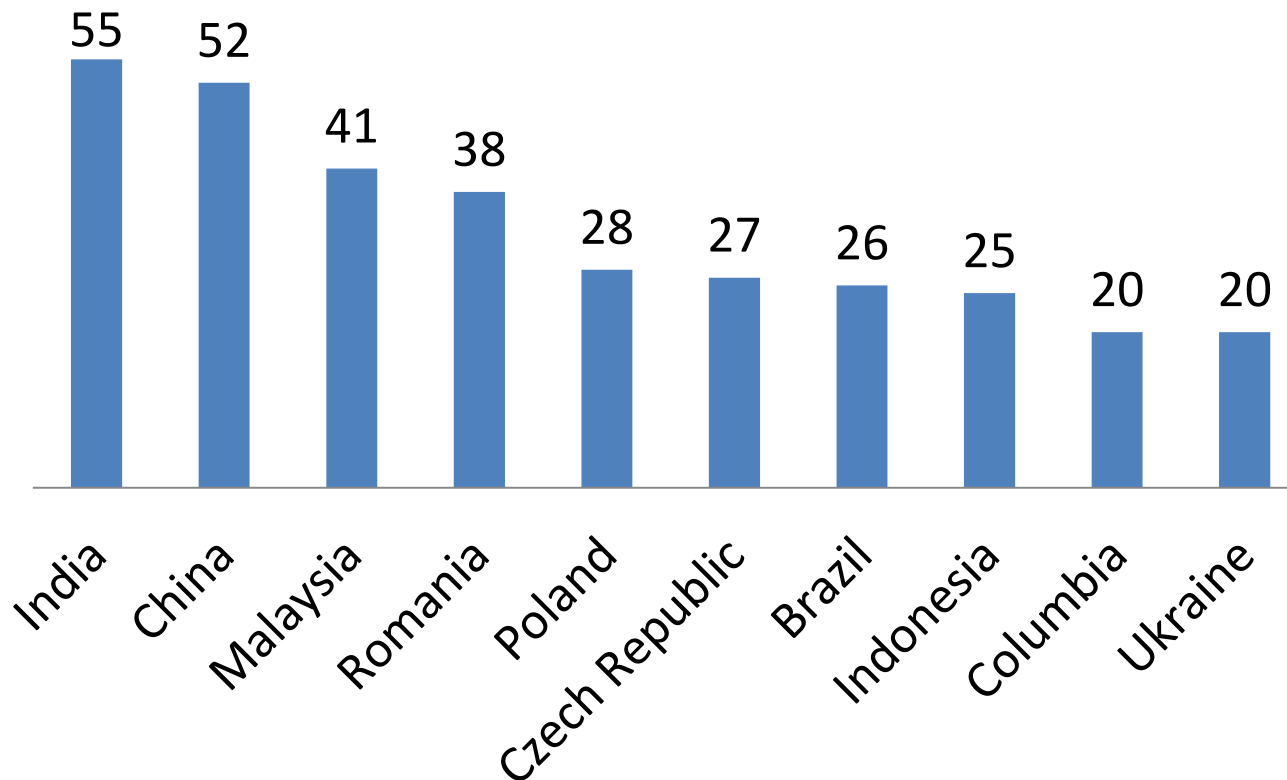
In Asia ….

- The world's highest regional growth rate for E-Learning of 17.3%.

- Revenues from E-Learning reached $5.2 billion in 2011 , $7.1 billion in 2013 & are expected to reach $11.5 billion by 2016.

- Throughout Asia, Government-funded projects related to literacy development in rural areas are a major driver to the introduction of E-Learning.

- There are at least 70 HE institutions providing services to almost 8 million students

- In South East Asia, there are at least 8 open universities providing services to almost one million students

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In the US ....

- 91.3% out of 2800 HE institutions surveyed said that online learning is critical for their long term strategic plan (in 2002 it was <50%)

- The percent of academic leaders rating the learning outcomes in online education as the same or superior to those as in face-to-face instruction, grew from 57% in 2003 to 74% in 2013.

- In 2013, 7.1 million students & 33.5% of HE institutions take/offer at least one online course, although the online enrollment growth rate is decreasing to the lowest level within a decade (6.1%)

■

ONLINE ENROLLMENT AS A PERCENT OF TOTAL ENROLLMENT: FALL 2002 - FALL 2012

(Allen & Seamen, 2014)
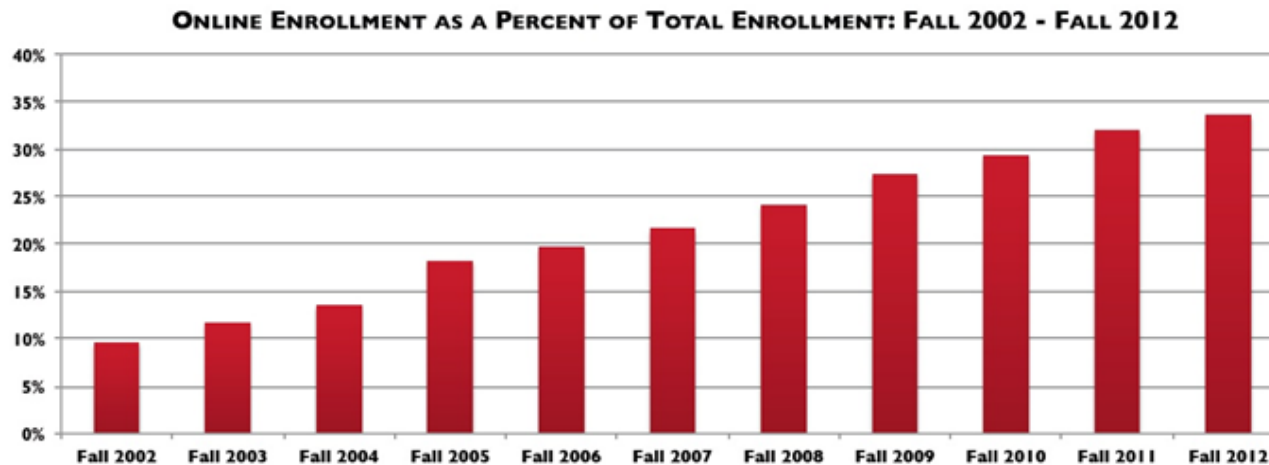
Remaining challenges …

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The most crucial challenges for online learning:
Putting the learners at the heart of the system

Accessible	Quality
Ubiquitous	Interactive
Open	Personalized
Massive	Promote student success

Universitas Terbuka
(The Indonesia Open University)

Background

Indonesia today ...

16th-largest economy in the world

45 million members of the consuming class

53% of the population in cities producing 74% of GDP

55 million skilled workers in the Indonesian economy

$0.5 trillion market opportunity in consumer services, agriculture and fisheries, resources, and education

... and in 2030

7th-largest economy in the world

135 million members of the consuming class

71% of the population in cities producing 86% of GDP

113 million skilled workers needed

$1.8 trillion market opportunity in consumer services, agriculture and fisheries, resources, and education

Need a *social engineering*

Need increased and improved access, quality and relevant eduction

....Indonesia's economy has enormous promise...

.... Indonesia's recent impressive economic performance is not widely understood ....

Source: *Archipelago Economy: Unleashing Indonesia's Potential* (McKinsey Global Institute, 2012)

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Background

Legend: ■ Participation Rates ■ Non-Participation Rates

Level	Non-Participation Rates	Participation Rates
Primary	4.41	95.59
Junior High	26.12	73.88
Senior High	45.75	54.25
Tertiary	71.00	29
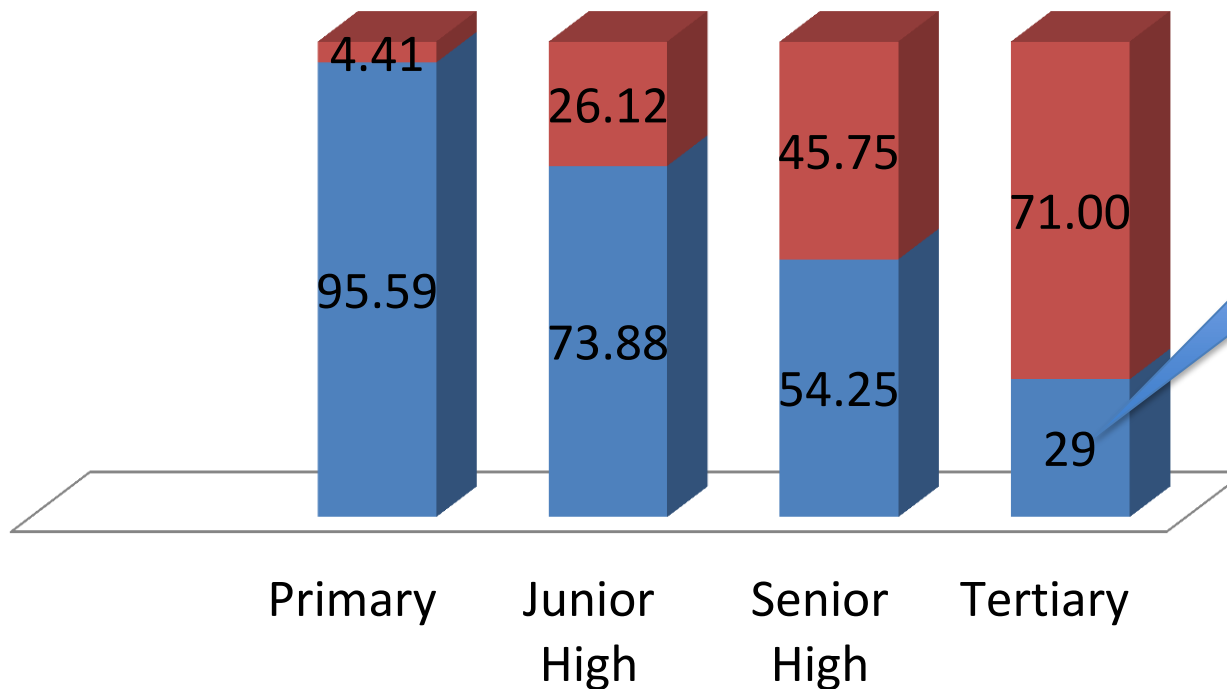
In >3200 Higher Education Institutions

This calls for new approaches to increase access to higher education
- Open education
- Online education

Current situations...

- Open Education: Universitas Terbuka (The Indonesia Open University)

- Online Education: all universities are encouraged to expand their reach by extending their campus-based teaching to also include online teaching

- Many universities practice online learning but mostly to supplement the classroom teaching, except for a few universities which have offer full online learning courses/programs.

Universitas Terbuka

Established in 1984

- single mode **Open and Distance Learning (ODL)** university,
- the only tertiary institution in Indonesia using exclusively distance education mode of delivery.

Main mission:

- to widen access to a quality higher education service through ODL
- to provide the opportunity for lifelong leaning

Operational Scale
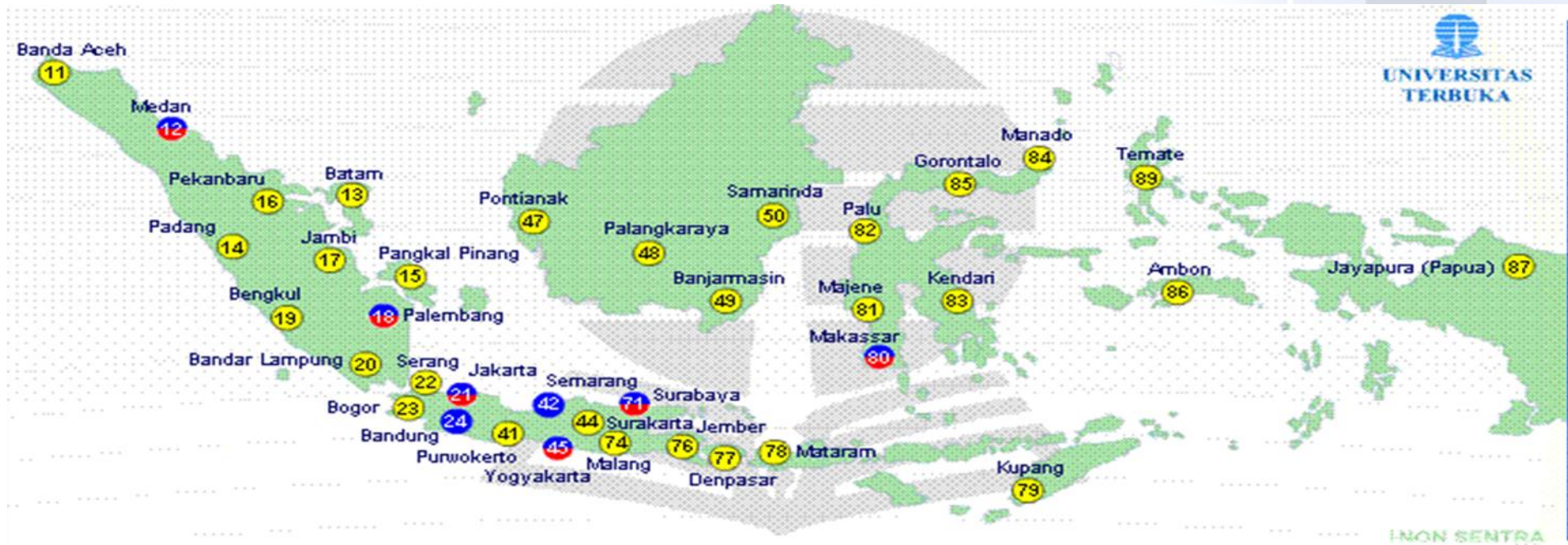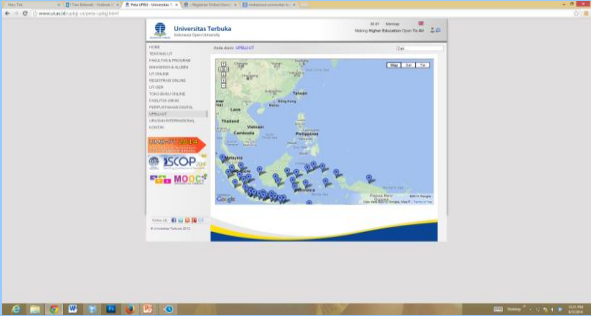
1.	Banda Aceh	7.	Jambi	13.	Serang	19.	Surabaya	26. Palangkaraya	33. Gororontalo
2.	Medan	8.	Palembang	14.	Bandung	20.	Malang	27. Banjarmasin	34. Ambon
3.	Batam	9.	Bengkulu	15.	Purwokerto	21.	Jember	28. Samarinda	35. Ternate
4.	Padang	10.	B. Lampung	16.	Semarang	22.	Denpasar	29. Makassar	36. Jayapura
5.	P.l Pinang	11.	Jakarta	17.	Surakarta	23.	Mataram	30. Palu	37. Majene
6.	Pekanbaru	12.	Bogor	18.	Yogyakarta	24.	Kupang	31. Kendari	38. Sorong
						25.	Pontianak	32. Manado	39. Abroad

Open Policy

Policies on:

| Open admission | Open registration |

Implementation Policies on:

| No age limit No Entrance Test | No Dropout system Multi Entry - Exit |

Admission by :
Study Program OR
Loosed Courses

Registration :
- by course package OR individual course
- regularly OR irregularly
- from the beginning OR by credit transfer
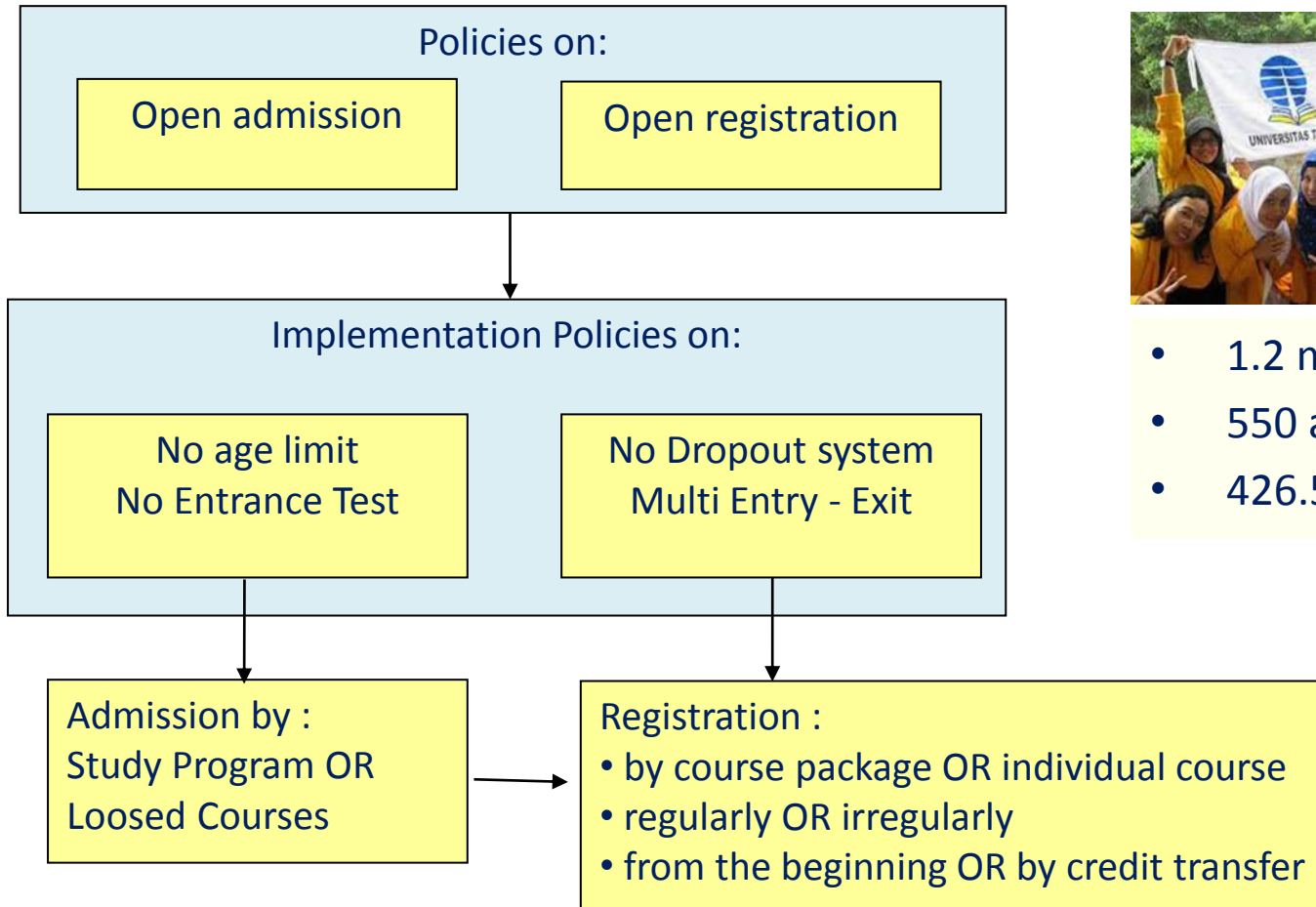
- 1.2 million enrolled students
- 550 active students
- 426.503 registered students

Flexible Learning System

Registration

Independent Learning

Assessment

Learning Support System

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Digital Library : e-books, e-journals, thesis, OERs/SUAKA, dissertation, research reports, Virtual Reading Room

>1.000 Learning Material Packages

>4,000 virtual classes or online/mobile tutorial

Face-to-face Tutorials in 446 cities

Scale of Online Course/Tutorials
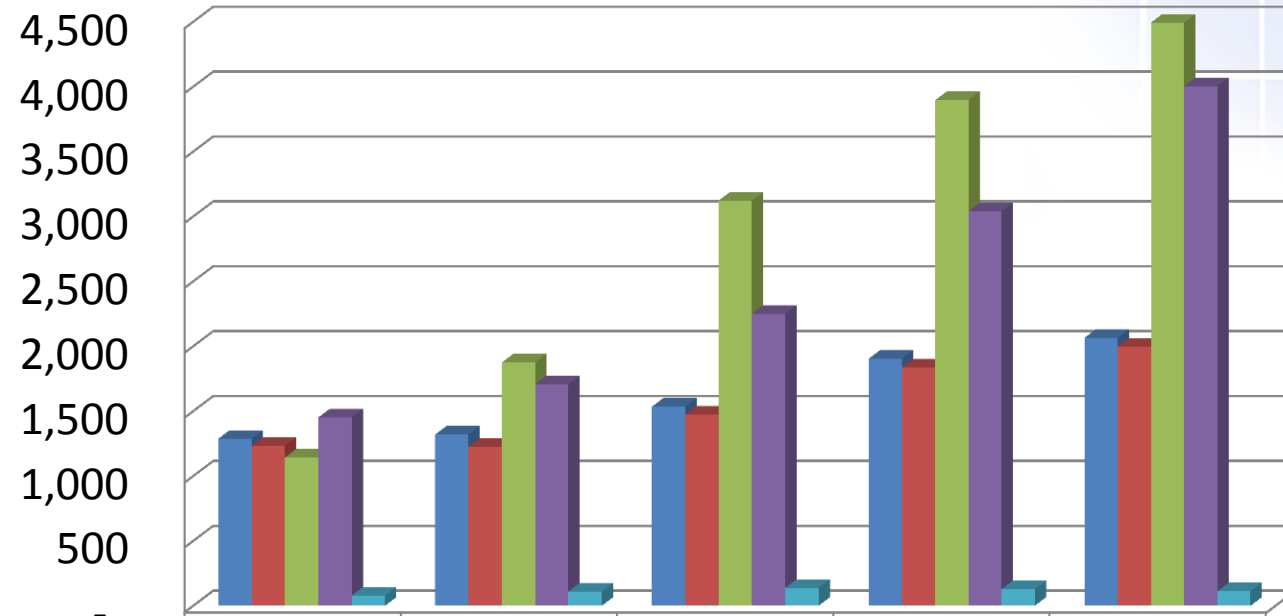
	2010	2011	2012	2013	2014
# of Available Online Course	1,287	1,319	1,534	1,903	2,065
# ofReal Online Course	1,233	1,225	1,473	1,836	1,998
# of Participants (x 100)	1,143	1,874	3,122	3,896	4,494
# of Virtual Classes	1,451	1,707	2,250	3,039	4,004
Average Participant/Course	79	110	139	128	112

449.400

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Scale Of Final Examination / Semester

Face-to-face Exam (Semester 2014.1)					
In Indonesia			Abroad		# of Student-Course Exam Processed
# of City	# of Exam Rooms	# of Students	# of City	# of Students	
730	21,781	340,720	24	1,610	1,641.682
# of Exam Supervisors/Proctors					40,421

Online Exam (Year 2014)			
# of Sites	# of Course	# of Student	# of Student-Course
38	600	10,887	15,750

Item Bank with a collection of 1,058 course & a total of 323,047 items

Free Education @ Universitas Terbuka

- UT started creating open content in 2002

- RECTOR Decree No.1255/UN31/KEP/2012 Concerning UT Policy on Open License of UT Educational Materials

  – Enhancement of Use of OER by faculty staff

  – The open license of UT educational material aims at protecting the creator and preventing the misuse of UT educational material.

Open Educational Resources (SUAKA – UT)

Guru Pintar Online (Teachers Portal)

UT Open CourseWare

Number of Hits/Users

Total # of User: 1,535,627

- Online course
- Open courseware
- Internet TV
- Teacher Portal
- Digital Library
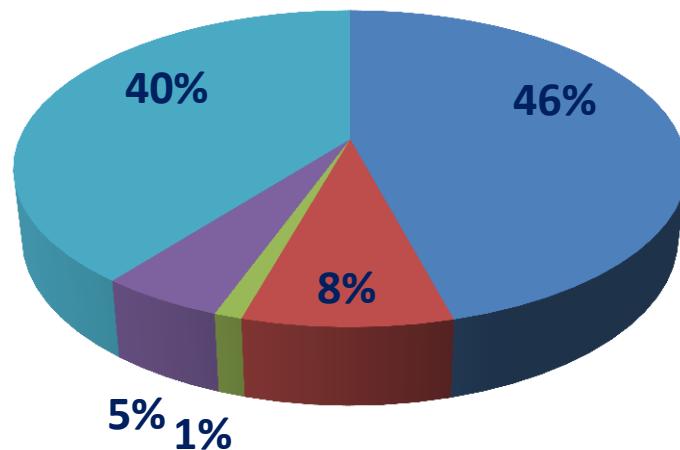
Jan 1 – Dec 31, 2014:

- **Open Courseware: 778.398 (130.359 users)**
- **ITV : 52.822 (17.402 users)**
- **Guru Pintar Online: 436.023 (77.060 users)**
- **Online course/tutorials: 54,597,176 (704,279 users)**
- **Digital Library: 4,636,545 (606,527 users)**
- **DRyLab : 24.046**

MOOCs at UT
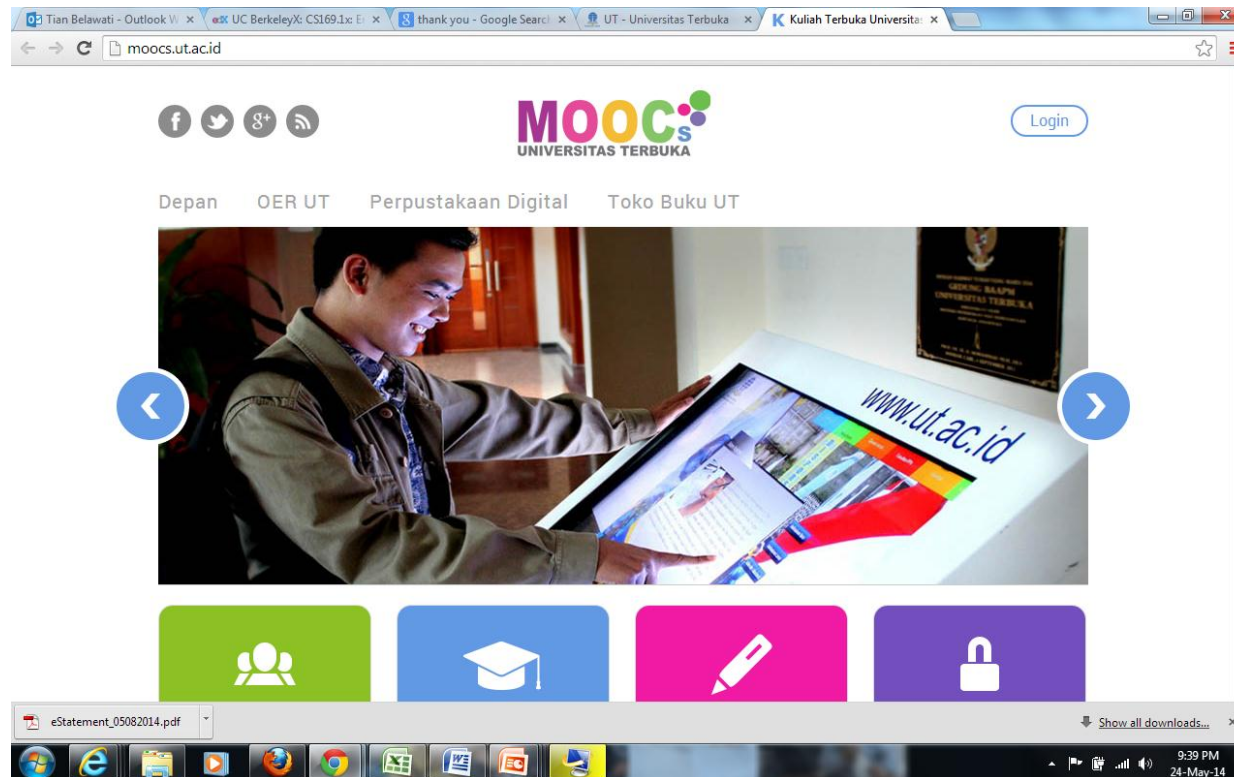
- **Free online courses for anyone**
- **Launched in March 2014**
- **18 Courses:**
- **+/- 5,000 enrollments**

Challenges

Figure 4: The Networked Readiness Index map

	Value
	5.4–7.0 (best)
	5.0–5.4
	4.0–5.0
	3.3–4.0
	1.0 (worst)–3.3
	Not covered

Networked Readiness Index
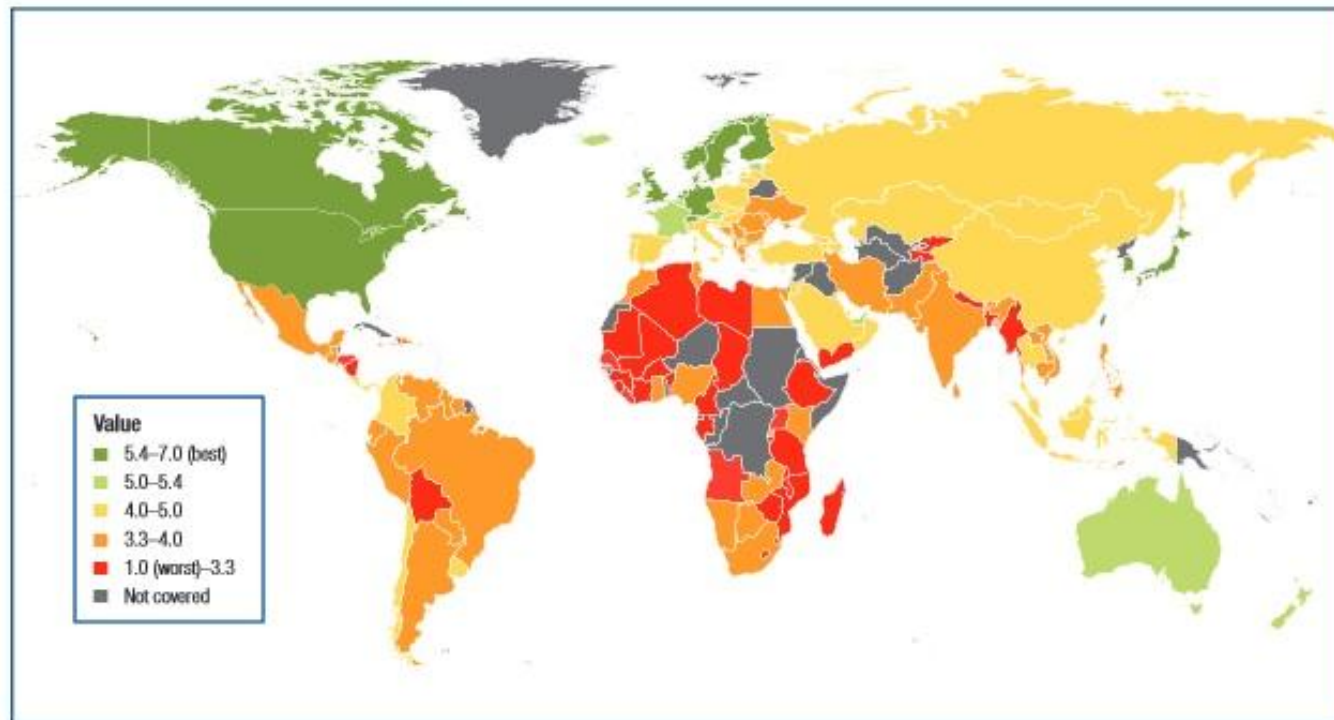
Country	NRI value	Rank 2014	Rank 2013
Singapore	5.97	2	2
Malaysia	4.83	30	30
Indonesia	4.04	64	76
Thailand	4.01	67	74
Philippines	3.89	78	86

IT infrastructure is only 3.6 out of 7

Individual usage is only 2.9 out of 7

Challenges

Asia Top Internet Countries
June 30, 2014

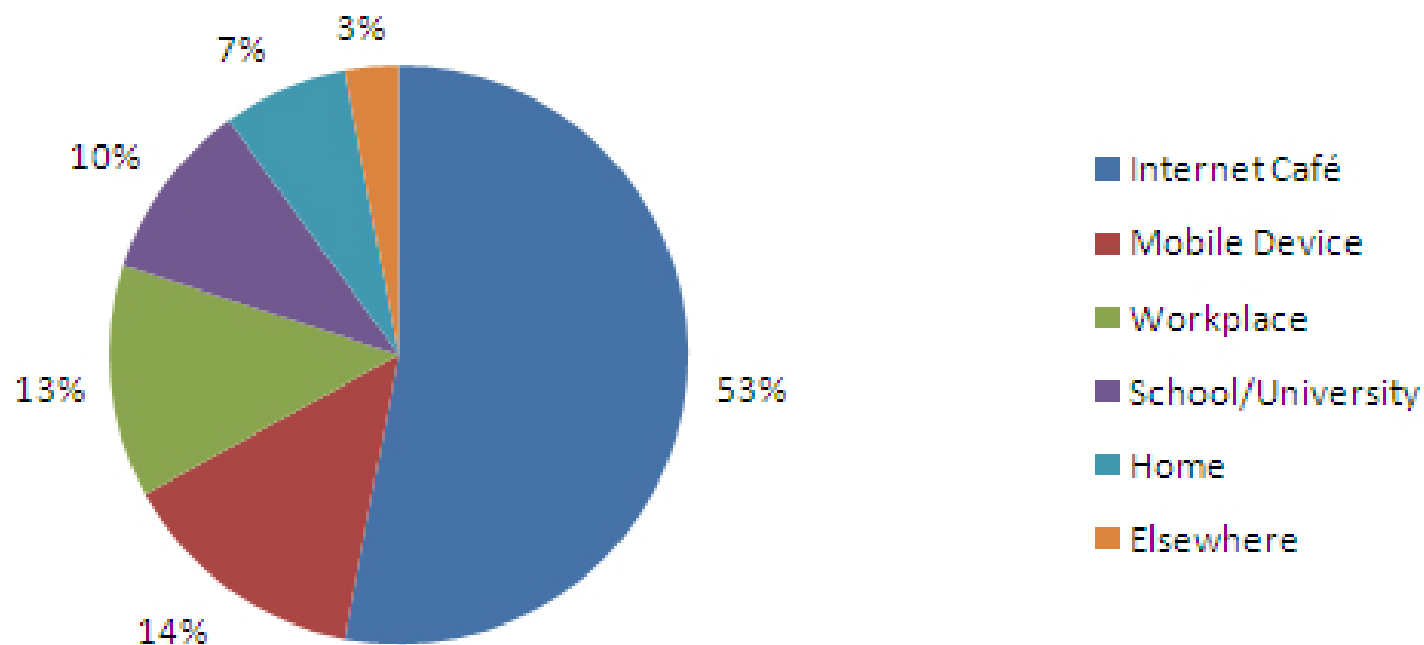| Country	Millions of Users
China	642.3
India	243.0
Japan	109.6
Indonesia	71.2
Korea, South	45.3
Philippines	44.2
Vietnam	41.0
Bangladesh	40.8
Pakistan	29.1
Malaysia	20.1

3.500% of increase since 2000

28% penetration
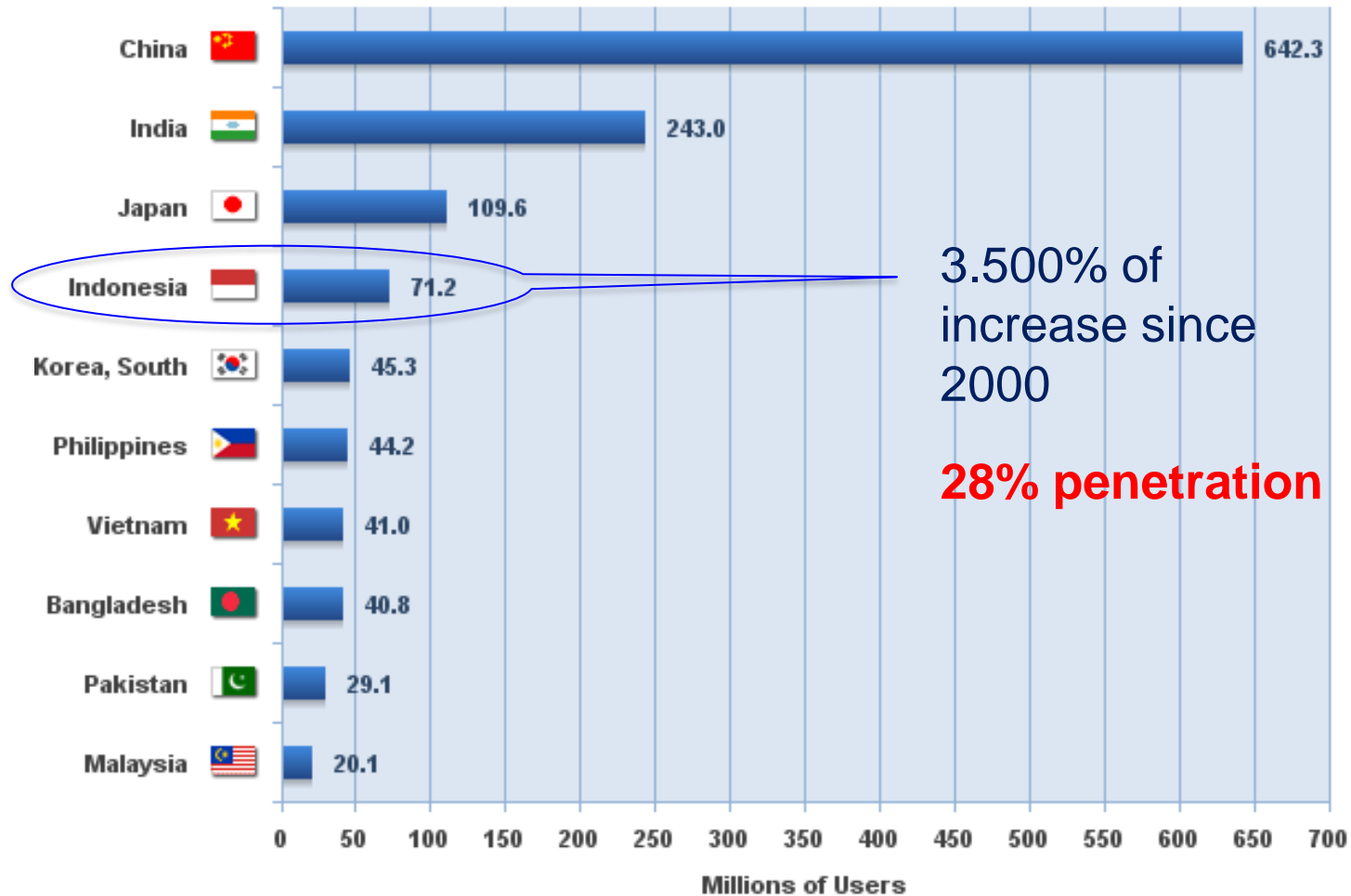
Source: Internet World Stats - www.internetworldstats.com/stats3.htm
3,035,749,340 Internet users in the World estimated for June 30, 2014
Copyright © 2014, Miniwatts Marketing Group

Indonesia: Most Often Used Internet Access Points

Percent who use that access point "most often"

- Internet Café — 53%
- Mobile Device — 14%
- Workplace — 13%
- School/University — 10%
- Home — 7%
- Elsewhere — 3%

BBG InterMedia Indonesia 2009: survey of adults (15+) who have used the internet in the past 12 months, n=254

New Facilities for Students

✓ **Contact Centre – Halo UT**

✓ **UT Learning Center (SALUT) at District Level**

Free access to:

Microsoft Office 365

Wireless internet access at public areas (Wifi-id)

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