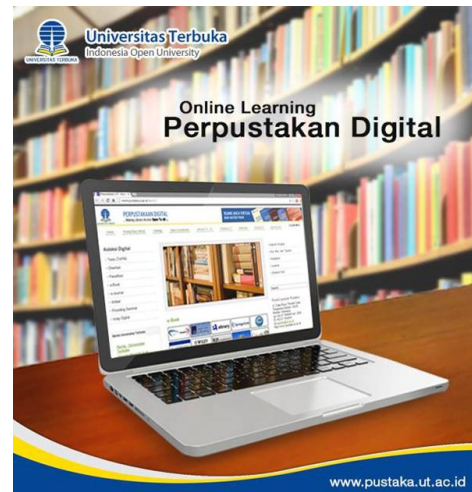
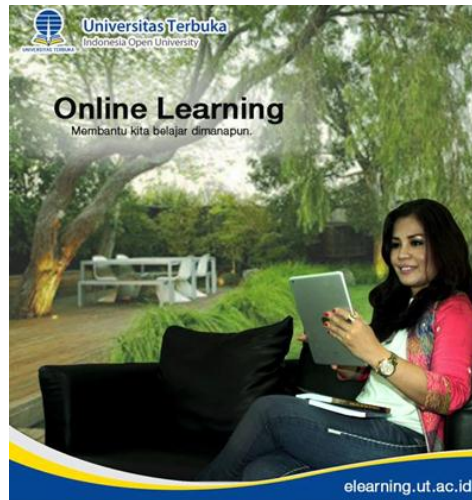




UNIVERSITAS TERBUKA



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**

Origin on Online Learning



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
- 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 .

open university

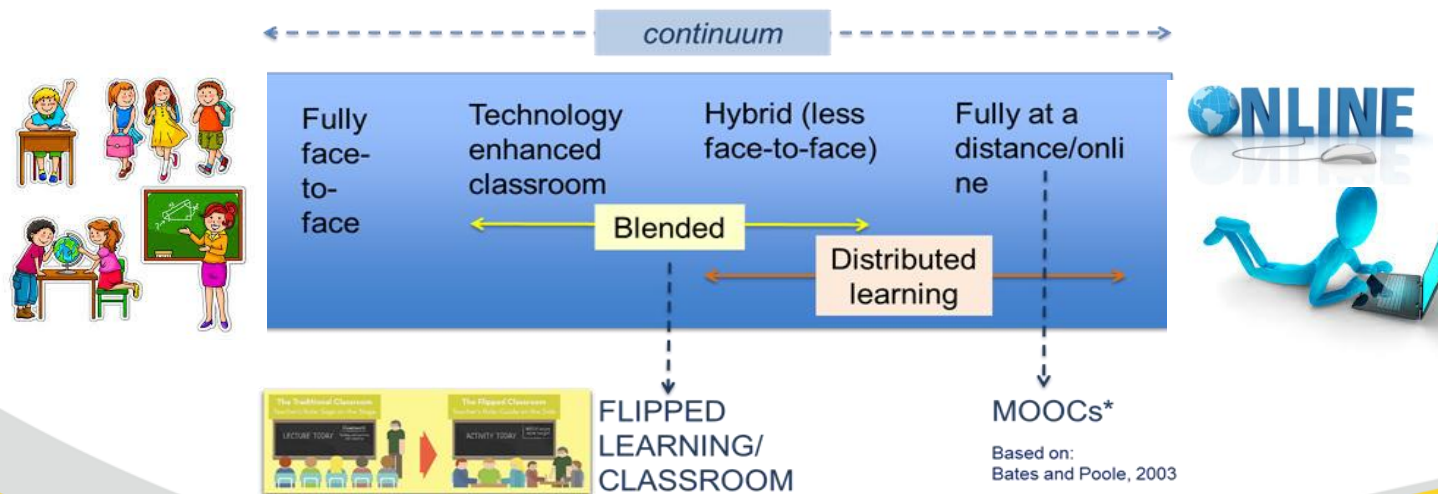
All are being used depends on **ACTIONS**

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

MOOCs

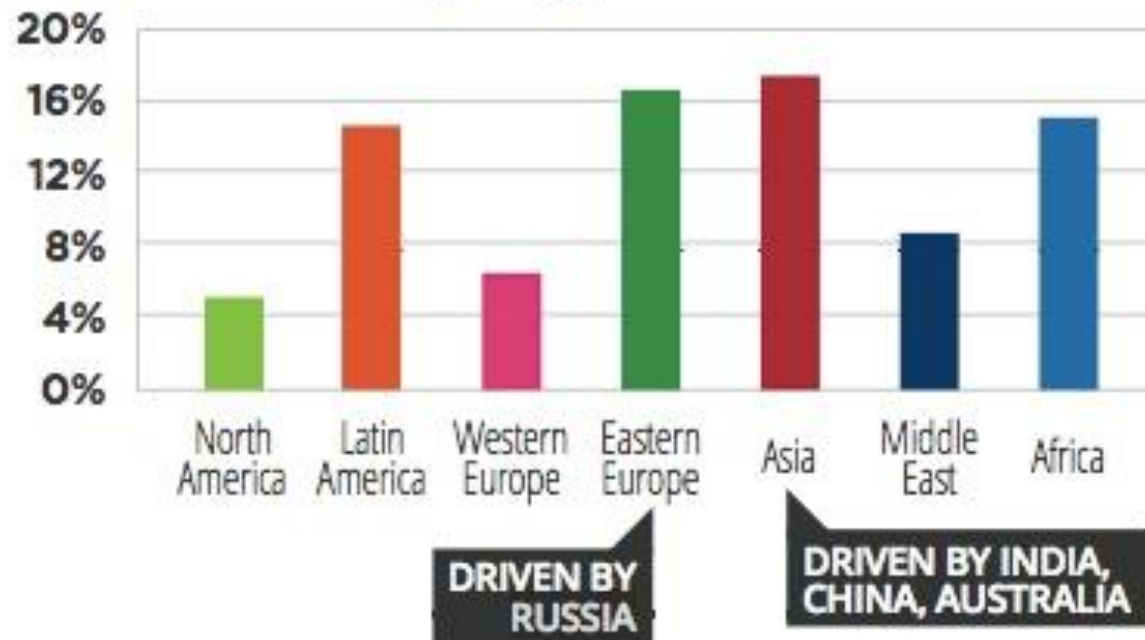
As a result

- **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

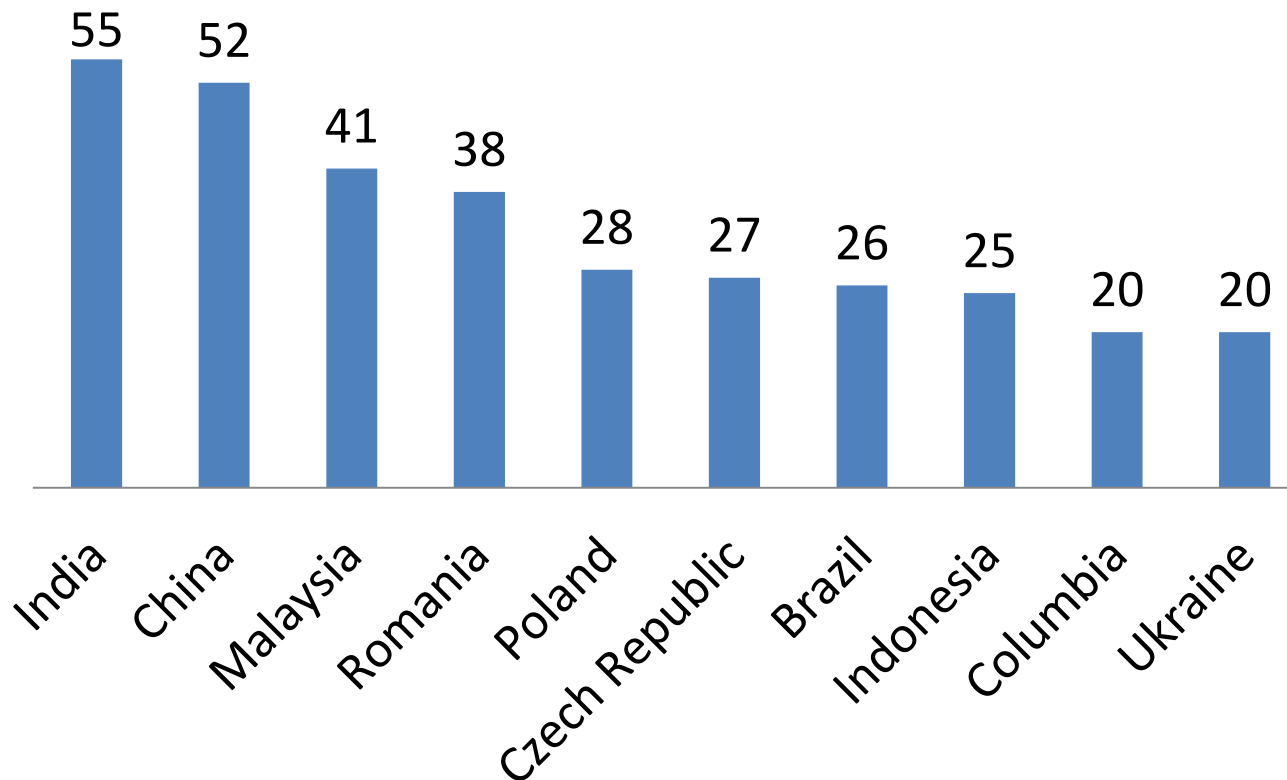
Growth by region (2011-2016)



- 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

- The growth rate of eLearning by country is :



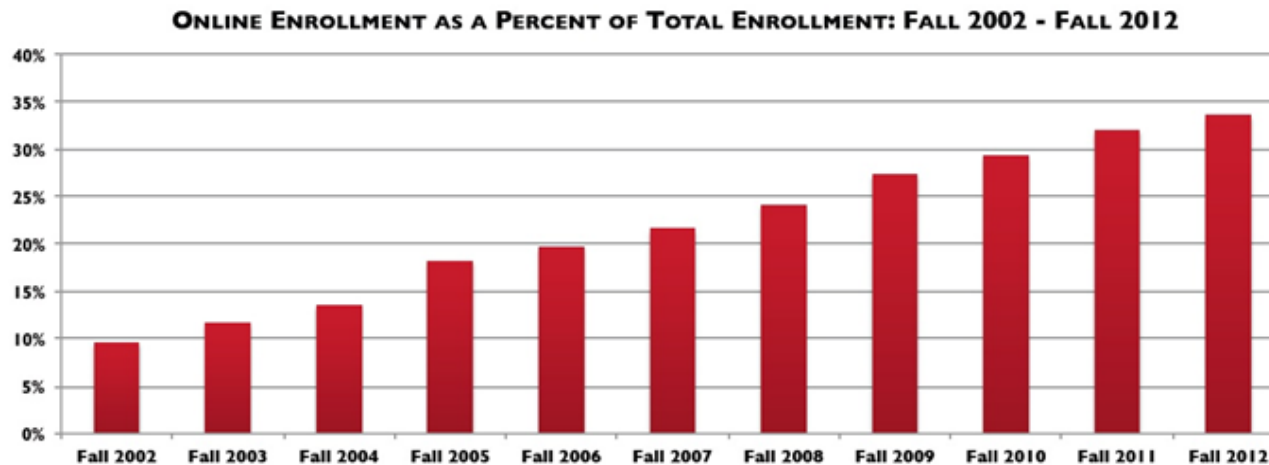
In Asia



- 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

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%)



Remaining challenges ...

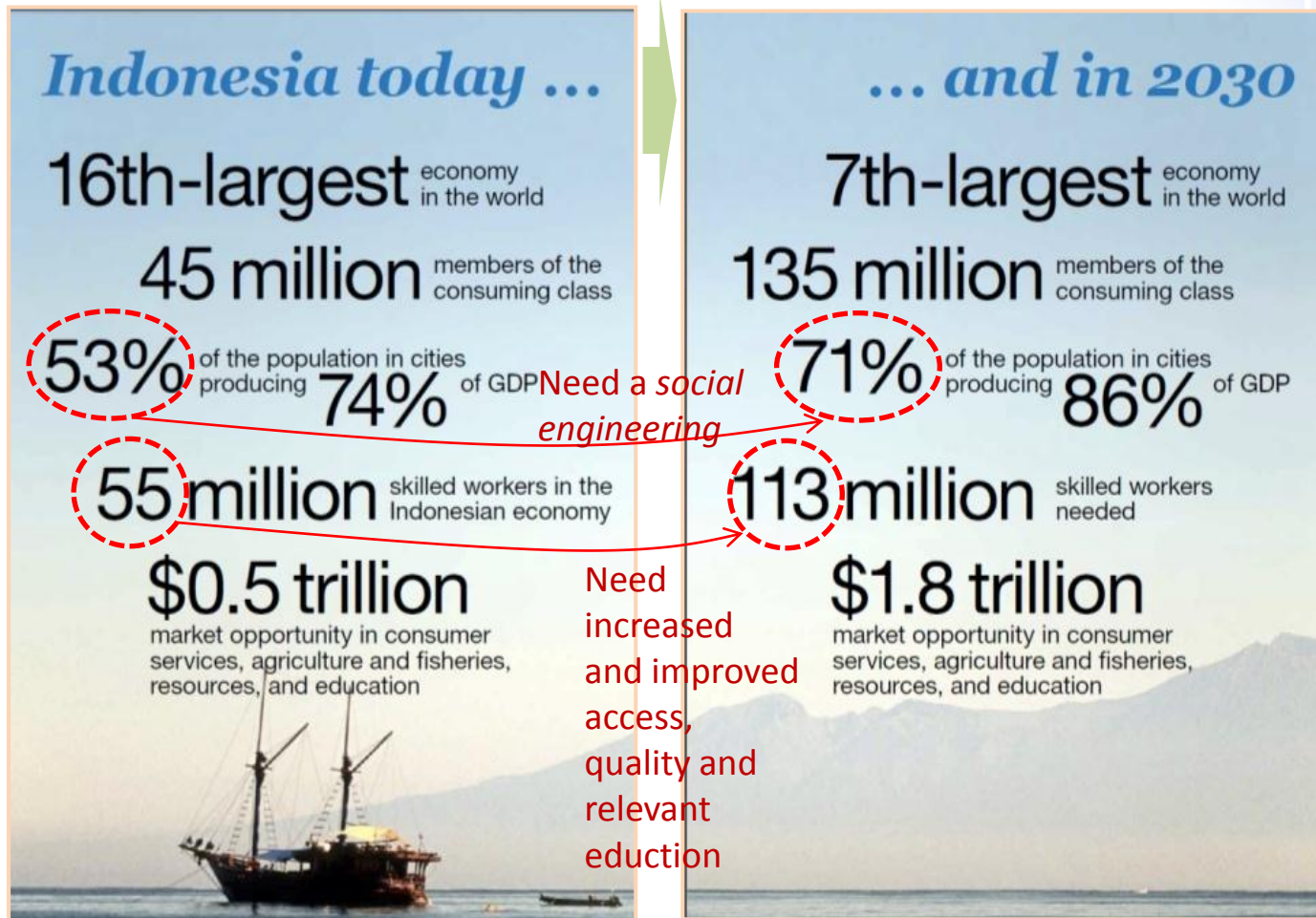
The most crucial challenges for online learning:
Putting the learners at the heart of the system

Accessible
Ubiquitous
Open
Massive

Quality
Interactive
Personalized
Promote student success

Universitas Terbuka (The Indonesia Open University)

Background



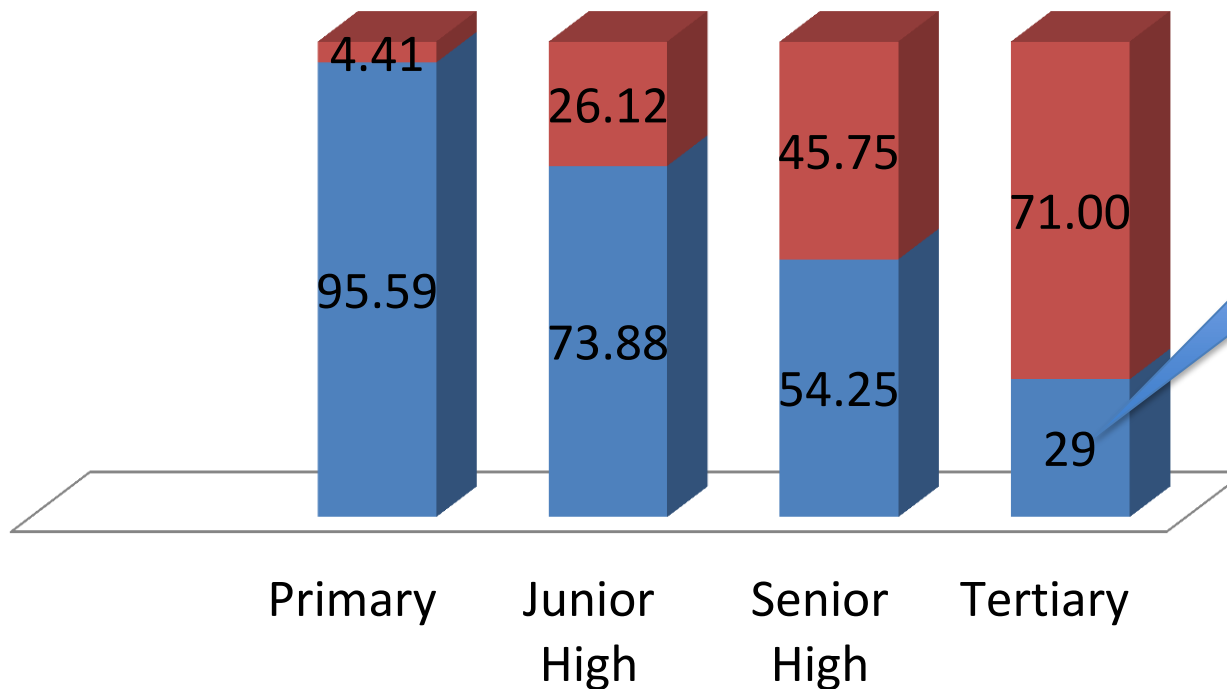
....Indonesia's economy has enormous promise...

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

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

Background

■ Participation Rates ■ Non-Participation Rates



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.





Established in 1984

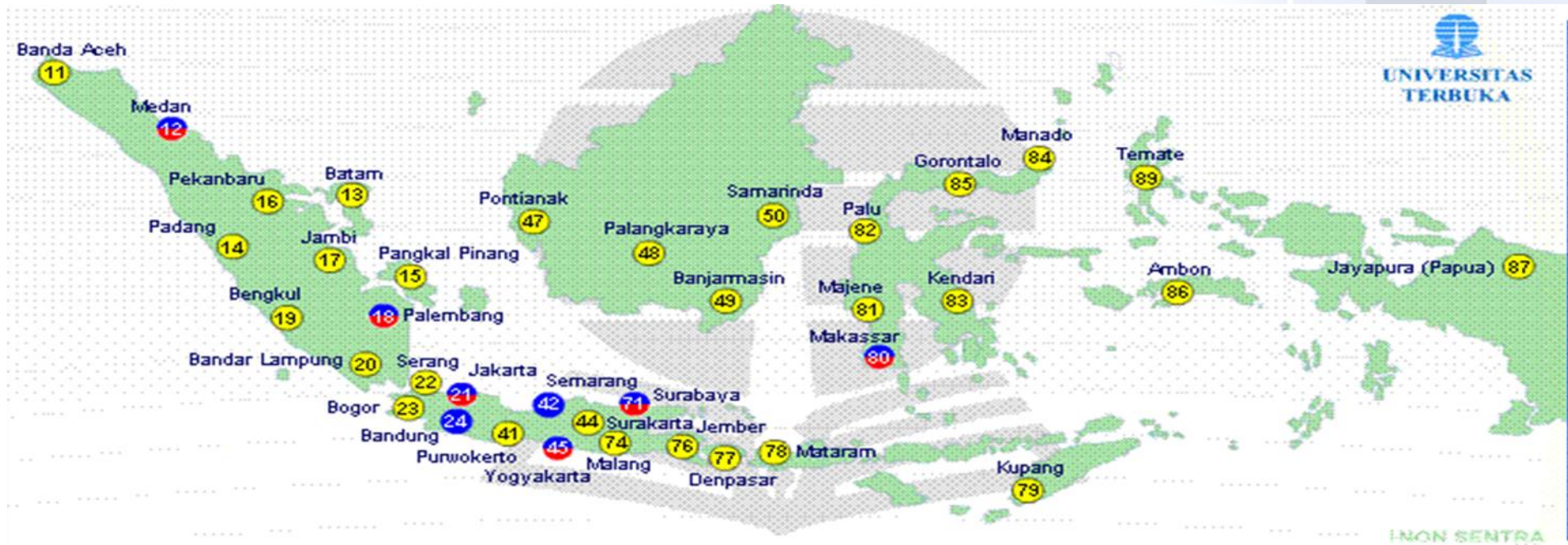
- single mode **Open and Distance Learning (ODL)** university,
- the only tertiary institution in Indonesia using exclusively distance education mode of delivery.

Main mission:

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

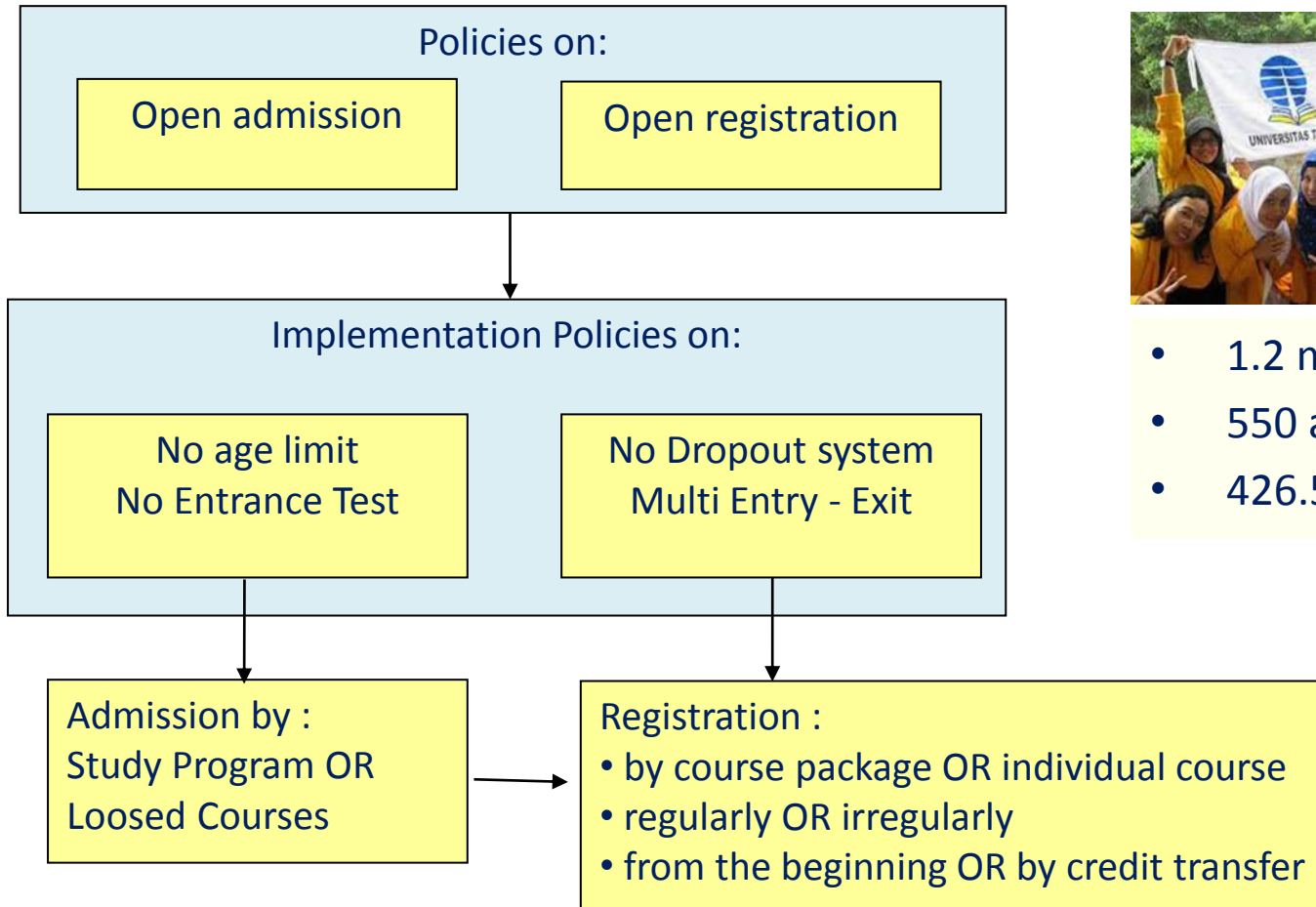


Operational Scale



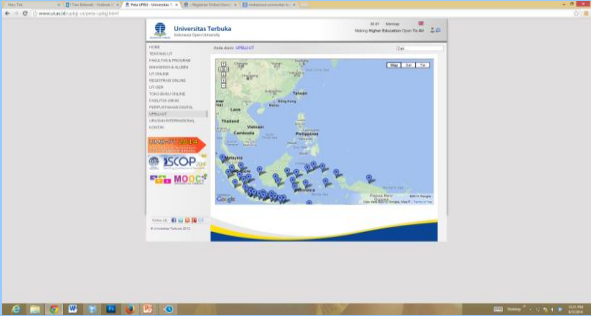
- | | | | | | |
|---------------|----------------|----------------|---------------|------------------|-----------------|
| 1. Banda Aceh | 7. Jambi | 13. Serang | 19. Surabaya | 26. Palangkaraya | 33. Gororontalo |
| 2. Medan | 8. Palembang | 14. Bandung | 20. Malang | 27. Banjarmasin | 34. Ambon |
| 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.I 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




- 1.2 million enrolled students
- 550 active students
- 426.503 registered students

Flexible Learning System



Registration



Independent Learning



Assessment



Learning Support System

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



>1.000 Learning Material Packages

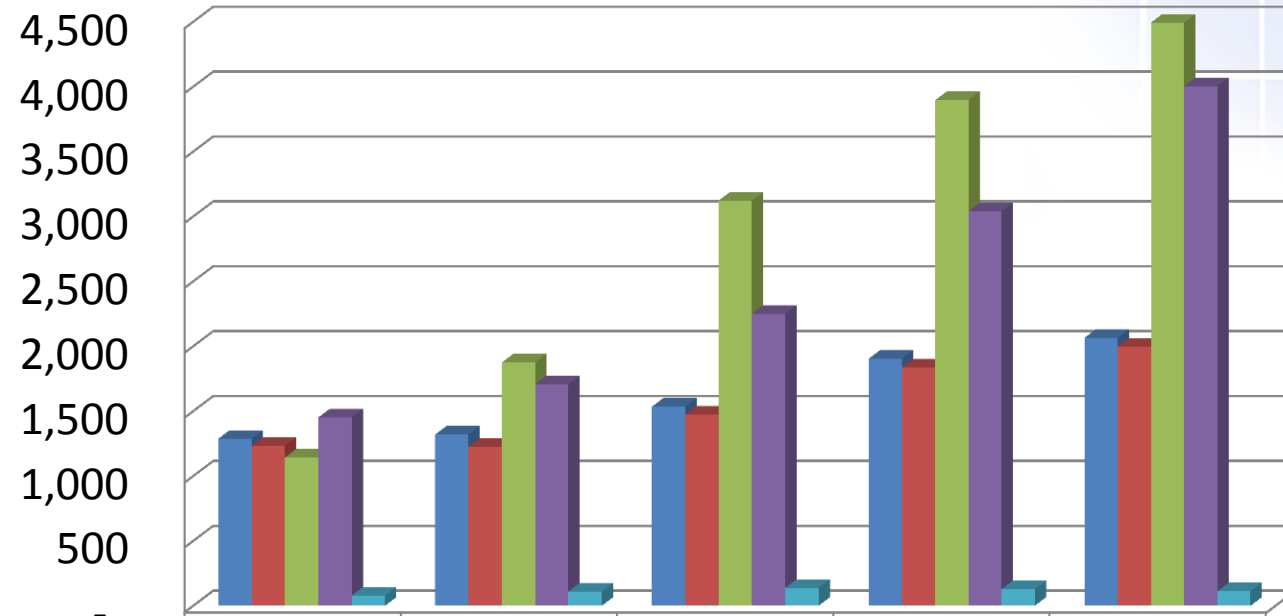


>4,000 virtual classes or online/mobile tutorial



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
# of Real 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

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)



The screenshot shows the homepage of the SUAKA-UT website. At the top, there is a navigation bar with the UT logo and the text "Open Educational Resources (OER) Universitas Terbuka". Below this is a banner image featuring various educational materials like books and CDs, with the text "SUAKA-UT Sumber Pembelajaran Terbuka - Universitas Terbuka". A horizontal menu lists categories: WEB-UT, ITV-UT, JURNAL, PERPUSTAKAAN DIGITAL, GURU PINTAR ONLINE (GPO), LEARNING OBJECT MATERIAL (LOM), and UT OPEN COURSEWARE. The main content area includes a paragraph about LPPM, a search bar with "Google™ Pencarian Kustom" and a "Cari" button, and several text blocks providing information about the SUAKA-UT service, its licensing (CC BY-NC-SA and CC BY-NC-ND), and contact details. A taskbar at the bottom shows various application icons and the system clock indicating 11:07 AM on 4/17/2015.

Open Educational Resources (OER)
Universitas Terbuka

UT (OER) Open Educational Resources
SUAKA-UT
Sumber Pembelajaran Terbuka - Universitas Terbuka

WEB-UT | ITV-UT | JURNAL | PERPUSTAKAAN DIGITAL | GURU PINTAR ONLINE (GPO) | LEARNING OBJECT MATERIAL (LOM) | UT OPEN COURSEWARE

LPPM, Website ini menyediakan informasi seputar dunia pendidikan dan pembelajaran Anda yang berprofesi sebagai guru atau pendidik pada berbagai tingkat, baik pendidikan anak usia dini, pendidikan dasar maupun pendidikan menengah.

Sumber pembelajaran terbuka-Universitas Terbuka (**SUAKA-UT**) merupakan Open Educational Resources (OER), yaitu salah satu layanan UT dalam menyediakan materi pembelajaran yang dapat diakses secara gratis oleh masyarakat luas. Di dalam SUAKA-UT terdapat begitu banyak materi sumber pembelajaran berkualitas yang dibuat sendiri oleh para dosen baik secara individu ataupun tim, dengan mengadopsi lisensi creative commons.

Materi dalam SUAKA-UT ada yang menggunakan lisensi **CC BY-NC-SA**, ada pula **CC BY-NC-ND**. Jika Anda ingin mengetahui lebih lanjut tentang creative commons silahkan buka tautan: <http://www.creativecommons.org>. Dengan adanya layanan SUAKA-UT diharapkan dapat membantu masyarakat luas untuk mendapatkan sumber belajar yang berkualitas secara bebas sehingga dapat mendorong terbentuknya masyarakat belajar di Indonesia.

Pertanyaan, saran dan kontribusi untuk SUAKA UT dialamatkan kepada: suaka_ut@ut.ac.id.

Sumber Pembelajaran dari institusi lain, dapat dilihat di [Open Education Consortium](#)

Selamat mengakses SUAKA UT..!!

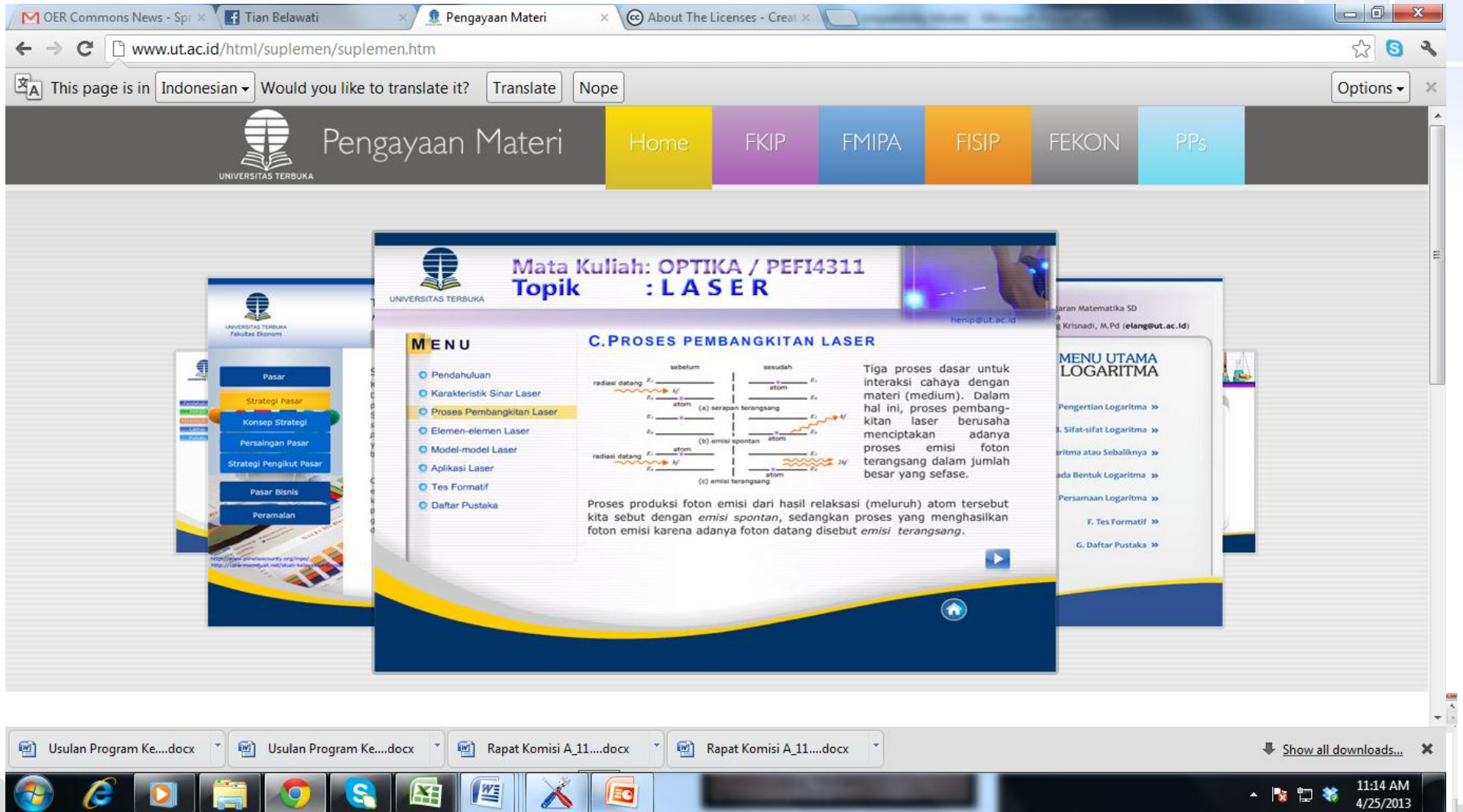


UNIVERSITAS TERBUKA

Guru Pintar Online (Teachers Portal)

The screenshot shows the homepage of the Guru Pintar Online (GPO) portal. The header includes the logo of Universitas Terbuka and the text "Guru Pintar Online Indonesia Open University Making Higher Education Open to All". Navigation tabs include Home, Forum Komunikasi Guru, Galeri Profil Inspiratif, and Web UT. A search bar is present. The main content area features a "GURU PINTAR ONLINE" banner with the subtitle "Pintu Interaksi Antar Guru Secara Online". Below this, there are sections for "Login Member" (with fields for Username and Password) and "Guru Pintar Online" (with a description of the portal's purpose). A sidebar on the left lists various resources like "Laboratorium Pembelajaran", "Materi Pengayaan Pembelajaran", and "Rujukan".

The screenshot shows a video category page on the Guru Pintar Online portal. The URL is "www.gurupintar.ut.ac.id/video/viewcategory/7/sains-matematik-a-iptek.html". The page features a search bar and a list of video thumbnails. The videos are categorized under "Sains, Matematik & Iptek". Each video entry includes a thumbnail, a title, view count, category, and a rating. The visible video titles are "Penggunaan dan pembuatan...", "Penggunaan dan pembuatan...", "Penggunaan dan pembuatan...", "Pengaruh Belajar", and "Mengukur Berat Benda". The system tray at the bottom shows the date and time as 1:18 PM on 5/2/2013.



The screenshot shows a web browser window with the URL www.ut.ac.id/html/suplemen/suplemen.htm. The page features a navigation menu with options: Home, FKIP, FMIPA, FISIP, FEKON, and PPs. The main content area displays the course title 'Mata Kuliah: OPTIKA / PEFI4311 Topik : LASER' and a 'MENU' section with the following items:

- Pendahuluan
- Karakteristik Sinar Laser
- Proses Pembangkitan Laser
- Elemen-elemen Laser
- Model-model Laser
- Aplikasi Laser
- Tes Formatif
- Daftar Pustaka

The 'Proses Pembangkitan Laser' section includes a diagram illustrating the three basic processes of laser interaction with matter (medium):

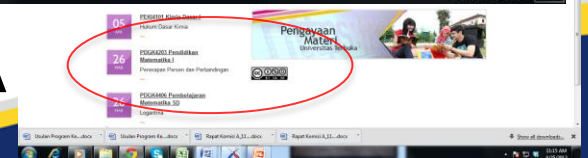
- serapan terangsang (stimulated absorption)
- emisi spontan (spontaneous emission)
- emisi terangsang (stimulated emission)

The diagram shows energy levels E_1 and E_2 of an atom. In (a), an incident photon with energy $E_2 - E_1$ causes an atom to transition from E_2 to E_1 . In (b), an atom transitions from E_2 to E_1 spontaneously, emitting a photon. In (c), an incident photon causes an atom to transition from E_2 to E_1 , emitting a second photon in phase with the first.

Text description: Tiga proses dasar untuk interaksi cahaya dengan materi (medium). Dalam hal ini, proses pembangkitan laser berusaha menciptakan adanya proses emisi foton terangsang dalam jumlah besar yang sefase.

Text description: Proses produksi foton emisi dari hasil relaksasi (meluruh) atom tersebut kita sebut dengan *emisi spontan*, sedangkan proses yang menghasilkan foton emisi karena adanya foton datang disebut *emisi terangsang*.

The browser's taskbar shows several open documents: 'Usulan Program Ke...', 'Rapat Komisi A_11...', and 'Rapat Komisi A_11...'. The system tray displays the time as 11:14 AM on 4/25/2013.

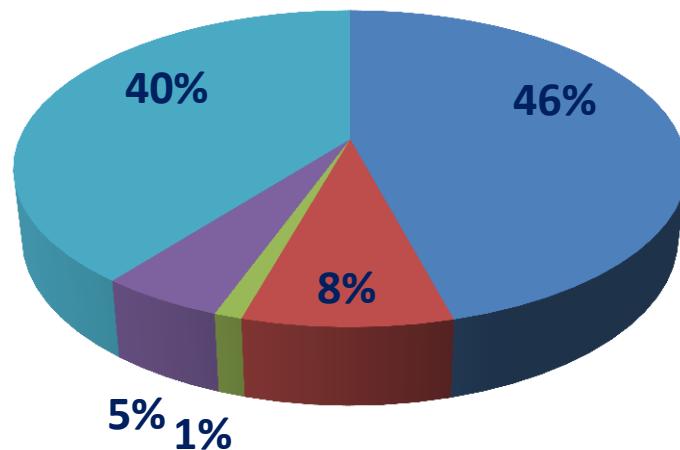


The taskbar shows several open applications, including a presentation slide titled 'Pembinaan Materi' with a red circle around it. The system tray shows the time as 11:14 AM on 4/25/2013.

Number of Hits/Users

Total # of User: 1,535,627

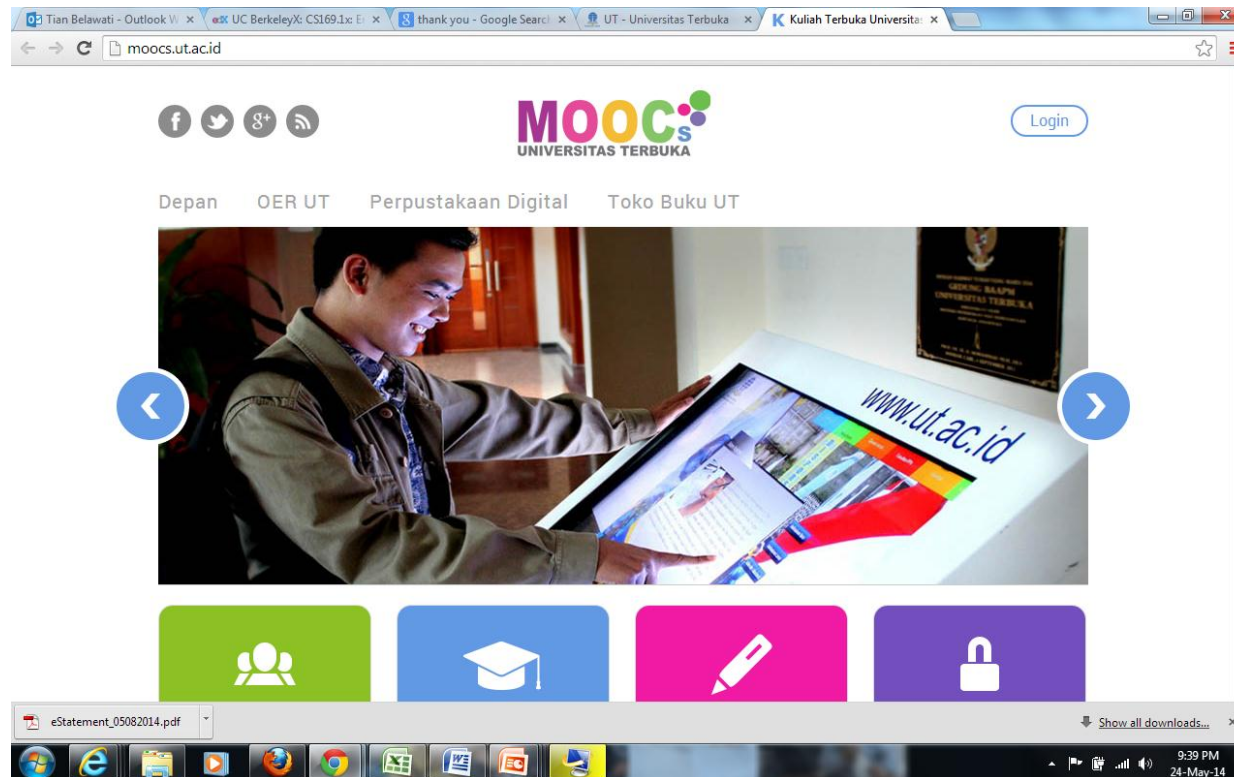
- Online course
- Open courseware
- Internet TV
- Teacher Portal
- Digital Library



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

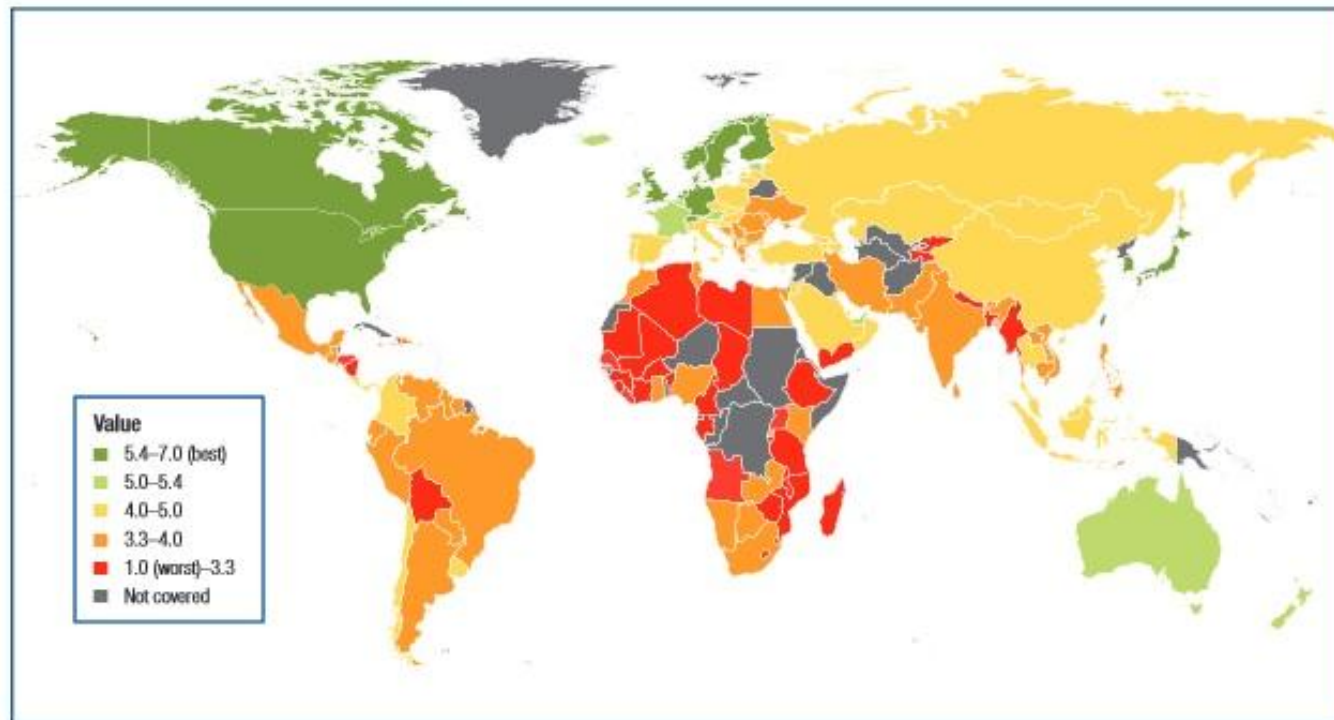


- Free online courses for anyone
- Launched in March 2014
- 18 Courses:
- +/- 5,000 enrollments

Challenges

Networked
Readiness
Index

Figure 4: The Networked Readiness Index map



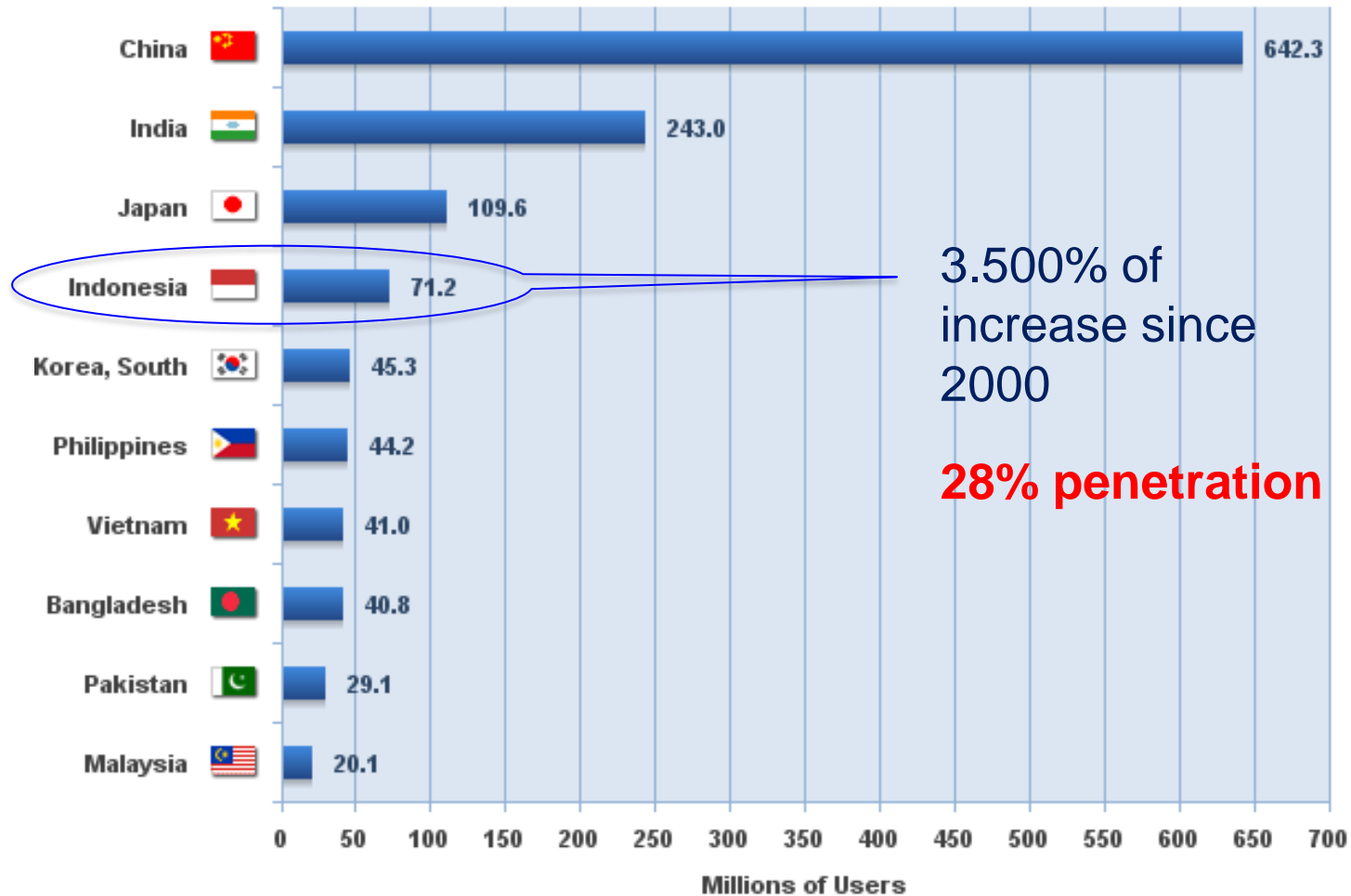
Country	NRI value	Rank 2014	Rank 2013
Singapore	5.97	2	2
Malaysia	4.83	30	30
Indonesia	4.04	64	76
Thailand	4.01	67	74
Philippines	3.89	78	86

IT infrastructure is only 3.6 out of 7

Individual usage is only 2.9 out of 7

Challenges

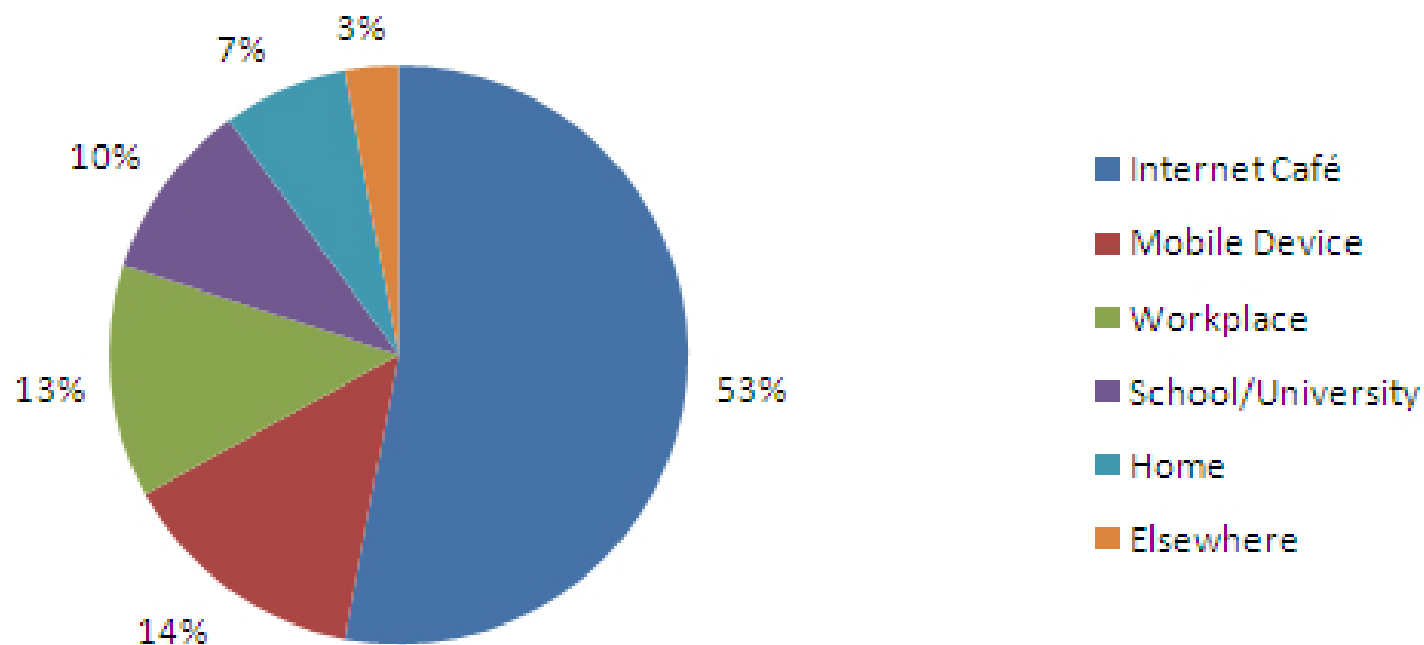
Asia Top Internet Countries June 30, 2014



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"



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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