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
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.

All are being used depends on ACTIONS

open university

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

Facilitating Factors

Everyone writes, makes videos, publishes, shares, comments ..... everyone reads, watches, downloads, uses, remixes, republishes .....

Giving birth to the sharing paradigm/culture
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
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:

<table>
<thead>
<tr>
<th>Country</th>
<th>Growth Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>India</td>
<td>55</td>
</tr>
<tr>
<td>China</td>
<td>52</td>
</tr>
<tr>
<td>Malaysia</td>
<td>41</td>
</tr>
<tr>
<td>Romania</td>
<td>38</td>
</tr>
<tr>
<td>Poland</td>
<td>28</td>
</tr>
<tr>
<td>Czech Republic</td>
<td>27</td>
</tr>
<tr>
<td>Brazil</td>
<td>26</td>
</tr>
<tr>
<td>Indonesia</td>
<td>25</td>
</tr>
<tr>
<td>Columbia</td>
<td>20</td>
</tr>
<tr>
<td>Ukraine</td>
<td>20</td>
</tr>
</tbody>
</table>
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%)
The most crucial challenges for online learning:
Putting the learners at the heart of the system

<table>
<thead>
<tr>
<th>Accessible</th>
<th>Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ubiquitous</td>
<td>Interactive</td>
</tr>
<tr>
<td>Open</td>
<td>Personalized</td>
</tr>
<tr>
<td>Massive</td>
<td>Promote student success</td>
</tr>
</tbody>
</table>
Universitas Terbuka
(The Indonesia Open University)
....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

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

In >3200 Higher Education Institutions
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
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

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

>4,000 virtual classes or online/mobile tutorial

>1,000 Learning Material Packages

Face-to-face Tutorials in 446 cities
Scale of Online Course/Tutorials

<table>
<thead>
<tr>
<th>Year</th>
<th># of Available Online Course</th>
<th># of Real Online Course</th>
<th># of Participants (x 100)</th>
<th># of Virtual Classes</th>
<th>Average Participant/Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>1,287</td>
<td>1,233</td>
<td>1,143</td>
<td>1,451</td>
<td>79</td>
</tr>
<tr>
<td>2011</td>
<td>1,319</td>
<td>1,225</td>
<td>1,874</td>
<td>1,707</td>
<td>110</td>
</tr>
<tr>
<td>2012</td>
<td>1,534</td>
<td>1,473</td>
<td>3,122</td>
<td>2,250</td>
<td>139</td>
</tr>
<tr>
<td>2013</td>
<td>1,903</td>
<td>1,836</td>
<td>3,896</td>
<td>3,039</td>
<td>128</td>
</tr>
<tr>
<td>2014</td>
<td>2,065</td>
<td>1,998</td>
<td>4,494</td>
<td>4,004</td>
<td>112</td>
</tr>
</tbody>
</table>

Total Participants: 449,400
### Scale Of Final Examination / Semester

#### Face-to-face Exam (Semester 2014.1)

<table>
<thead>
<tr>
<th># of City</th>
<th># of Exam Rooms</th>
<th># of Students</th>
<th># of City</th>
<th># of Students</th>
<th># of Student-Course Exam Processed</th>
</tr>
</thead>
<tbody>
<tr>
<td>730</td>
<td>21,781</td>
<td>340,720</td>
<td>24</td>
<td>1,610</td>
<td>1,641.682</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>40,421</td>
</tr>
</tbody>
</table>

**Online Exam (Year 2014)**

<table>
<thead>
<tr>
<th># of Sites</th>
<th># of Course</th>
<th># of Student</th>
<th># of Student-Course-Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>38</td>
<td>600</td>
<td>10,887</td>
<td>15,750</td>
</tr>
</tbody>
</table>

*Item Bank with a collection of 1,058 courses & a total of 323,047 items*
• 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)

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 baca 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...!
Guru Pintar Online (Teachers Portal)
Number of Hits/Users

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

Total # of User: 1,535,627
MOOCs at UT

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

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

- China: 642.3 million users
- India: 243.0 million users
- Japan: 109.6 million users
- Indonesia: 71.2 million users
- Korea, South: 45.3 million users
- Philippines: 44.2 million users
- Vietnam: 41.0 million users
- Bangladesh: 40.8 million users
- Pakistan: 29.1 million users
- Malaysia: 20.1 million users

3.500% of increase since 2000
28% penetration

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)
thank you

tbelawati@ecampus.ut.ac.id