The Experience of Indonesia

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Rector of Universitas Terbuka
President of the International Council for Open and Distance Education (ICDE)

ASEM Forum on Lifelong Learning
Nusa Dua Bali, 11 March 2015
Learning throughout life

Improving personal knowledge, skills and competences

Formal, non-formal, or informal
Flexible learning/education system
Learning for anyone, anywhere, anytime
... beyond schooling

Public good
Eliminate hindrances
67 million children & 74 million adolescents are out of school
793 million lack basic literacy skills
100 – 150 million new places for HE are needed before 2025

Everywhere we turn, everything changes rapidly
The emergence of new technologies

- Hardware is getting smaller and cheaper
- Software is getting more interactive - new generation of www

Enabling Factors

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

- Global open movement
  - Open source software
  - Open content
    - Learning Object (LO) or Learning Object Materials (LOM)
    - Open Courseware (OCW)
    - Open Educational Resources (OERs)
- Open license
  - Creative Commons (CC)
• OER University
  – All you need is an internet connection, and you can study with us – no matter where you live! Study online for free, using open educational resources. Get your study credited towards an academic qualification, while paying significantly reduced fees.
  – All course materials are OERs using creative commons licensing.
MOOCs

2008

- George Siemens & Stephen Downes (the University of Manitoba, Canada) --- cMOOC: Connectivism and Connective Knowledge attended by 25 paying students and 2,200 free of charge students

- The first American MOOC was offered by Sebastian Thurn of Stanford University for the course titled: Introduction to Artificial Intelligent, participated by 160,000 students from all over the world --- xMOOC

2011
2007 - The Cape Town Open Education Declaration: Unlocking the promise of open educational resources

- Encourage educators and learners to actively participate in the emerging open education movement.
- Call on educators, authors, publishers and institutions to release their resources openly.
- Call on governments, school boards, colleges and universities to make open education a high priority.

http://www.capetowndeclaration.org/
2012 - OER Paris Declaration

Recommends that States, within their capacities and authority:

• Foster awareness and use of OER and ICT for education.
• Reinforce the development of strategies and policies on OER; including the development and adaptation of OER, foster strategic alliances for OER. as well as conducting research on OER.
• Promote the understanding and use of open licensing frameworks & Encourage the open licensing of educational materials produced with public funds.
2014 – Bali Message

• Access to, and success in, open, online and flexible learning are key solutions to the pressing development challenges and needs of 21st century societies.

• Encourage governments to create favorable frameworks for opening up education, stimulate the use of OER, enable learner mobility, encourage the adoption of quality standards, guidelines and benchmarks for open, online and distance learning, foster innovation, and invest in research on best practices in open, online, distance and flexible education.
Commitment of Educators

- **June 2015 - UNESCO-ICDE** High Level Policy Forum on ICT for Education in Paris
- **October 2015 - ICDE, UNESCO & Commonwealth of Learning** High Level Policy Forum on quality open, online, flexible education and eLearning as part of the post 2015 education agenda in Pretoria
Indonesia’s Case
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)
Demography Bonus for Indonesia 2045

Ministry of Education and Culture, 2013
Population Structure by 2010

<table>
<thead>
<tr>
<th>Age Group</th>
<th># of Population (million)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-9</td>
<td>45,93</td>
</tr>
<tr>
<td>10-19</td>
<td>43,55</td>
</tr>
<tr>
<td>20-29</td>
<td>41,20</td>
</tr>
<tr>
<td>30-39</td>
<td>38,34</td>
</tr>
<tr>
<td>40-49</td>
<td>30,57</td>
</tr>
<tr>
<td>50-59</td>
<td>20,01</td>
</tr>
<tr>
<td>60-69</td>
<td>10,75</td>
</tr>
<tr>
<td>70-79</td>
<td>5,43</td>
</tr>
<tr>
<td>80-89</td>
<td>1,58</td>
</tr>
<tr>
<td>90+</td>
<td>0,28</td>
</tr>
</tbody>
</table>

# of Population: 237 million

Period of Demography Bonus 2010-2035

Generation of 100 years of Independence (Age at 2045)

- Early childhood education
- Character education
- Ensuring all school age children are at school

Universal Secondary Education (USE) & Curriculum 2013
- Competitive and quality higher education,
- Equal and quality basic education
- Character education
- Ensuring all school age children are at school

# of Population 317 million

45-54 years

35-44 years

Indonesian Condition

<table>
<thead>
<tr>
<th>Level</th>
<th>Participation Rates</th>
<th>Non-Participation Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td>95.59</td>
<td>4.41</td>
</tr>
<tr>
<td>Junior High</td>
<td>73.88</td>
<td>26.12</td>
</tr>
<tr>
<td>Senior High</td>
<td>54.25</td>
<td>45.75</td>
</tr>
<tr>
<td>Tertiary</td>
<td>71.00</td>
<td>29</td>
</tr>
</tbody>
</table>

BPS, 2013, Kemdi kbud, 2013
### Indonesian Condition

<table>
<thead>
<tr>
<th></th>
<th>Primary</th>
<th>Junior High</th>
<th>Senior High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continue</td>
<td>28,379,700</td>
<td>9,542,880</td>
<td>4,400,130</td>
</tr>
<tr>
<td>Discontinue</td>
<td>2,204,550</td>
<td>2,918,700</td>
<td>4,320,873</td>
</tr>
<tr>
<td>DO</td>
<td>465,750</td>
<td>228,420</td>
<td>388,997</td>
</tr>
</tbody>
</table>

Data of 2010, Kemdikbud, 2013
Indonesian Condition

Data of 2010, Kemdikbud, 2013
Kejar Paket A/B/C (A/B/C Package)

- Night schooling, home schooling, etc. through Pusat Kegiatan Belajar Masyarakat (PKBM) – Community Learning Centers that are certified and authorized by the Ministry of Education
- 4-6 months
- Equivalency examination of Primary/Secondary School
LLL in Primary/Secondary Education

Package A: 107.71
Package B: 85.96
Package C: 66.61

GPR

BPS, 2013
LLL for Primary/Secondary Education

- 12,934 free online learning materials
- 1,331 free e-books for the curriculum
- Clinic and consultancy for teachers
- Portal of Open High School (80% online – 20% face-to-face)
The establishment of 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 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 (2015.1)
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

<table>
<thead>
<tr>
<th></th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td># of Available Online Course</td>
<td>1.287</td>
<td>1.319</td>
<td>1.534</td>
<td>1.903</td>
<td>2.065</td>
</tr>
<tr>
<td># of Real Online Course</td>
<td>1.233</td>
<td>1.225</td>
<td>1.473</td>
<td>1.836</td>
<td>1.998</td>
</tr>
<tr>
<td># of Participants (x 100)</td>
<td>1.143</td>
<td>1.874</td>
<td>3.122</td>
<td>3.896</td>
<td>4.494</td>
</tr>
<tr>
<td># of Virtual Classes</td>
<td>1.451</td>
<td>1.707</td>
<td>2.250</td>
<td>3.039</td>
<td>4.004</td>
</tr>
<tr>
<td>Average Participant/Course</td>
<td>79</td>
<td>110</td>
<td>139</td>
<td>128</td>
<td>112</td>
</tr>
<tr>
<td>In Indonesia (2013.2)</td>
<td>Abroad</td>
<td># of Student-Course Exam Processed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>--------</td>
<td>-----------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># of City</td>
<td># of Exam Rooms</td>
<td># of Students</td>
<td># of City</td>
<td># of Students</td>
<td></td>
</tr>
<tr>
<td>678</td>
<td>21,781</td>
<td>336,405</td>
<td>15</td>
<td>1,319</td>
<td>1,654,735</td>
</tr>
<tr>
<td># of Exam Supervisors/Proctors</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>40,421</td>
</tr>
</tbody>
</table>
Alumni

>1.3 millions
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.
Use of Creative Commons

• Attribution, Non Commercial and Share Alike (CC BY-NC-SA) for:
  – Video Program stored in UT Internet TV
  – Prudent Teacher Online Portal (Portal Guru Pintar Online)
  – Internet based learning materials (open coursewares)

• Attribution, Non Commercial and No Derivatives (CC BY-NC-ND) for:
  – Dissertation, thesis, research output, conference proceedings, course outlines, summaries, and previews stored in UT digital library including
  – E-journals, books, abstract compilations, and training resources stored in UT Research and Community Services website
  – Curriculum and course descriptions stored in Faculty websites
  – UT Catalog.
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ITV-UT
Guru Pintar Online (Teachers Portal)
Learning Object Materials (LOM)

PANdora
PAN Asia Networking
Distance and Open Resource Access

A Repository of Reusable Learning Objects
for Distance Learning in Asia

Main Menu
Home
Learning Object Materials
Popular
Top Rated

Login
Username:
Password:

Main Category Listings
General Interest (0)

LO_Indonesian (54)
Biology_Id
Chemistry_Id
Ecology_Id
Mathematics_Id
Physics_Id
Statistics_Id

LO_Thai (65)
Biology_Th
Chemistry_Th
Ecology_Th
Mathematics_Th
Physics_Th

LO_Khmer (9)
Biology_Km
Chemistry_Km
Ecology_Km
Mathematics_Km
Physics_Km

Download by alphabetical listing
[ Latest Listings | Popularity | Rating ]
Mata Kulliah: OPTIKA / PEFI4311
Topik : LASER

C. Proses Pembangkitan Laser

Proses produksi foton emisi dari hasil relaksasi (meluah) atom tersebut kita sebut dengan emisi spontan, sedangkan proses yang menghasilkan foton emisi karena adanya foton datang disebut emisi ketangsang.
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
MOOCs at UT

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

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