MOOCS IN HIGHER EDUCATION: BENEFITS and OPPORTUNITIES

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MOOCs Phenomenon

UT Moocs: Beyond OER

Its Impact to Higher Education Practices

The Way Forward
Universitas Terbuka (UT) SCALE OF OPERATION

Learning Community

1.2 million enrolled students
1.4 million alumni
550,000 active students
750 Faculty Members
650 Staff
21000 Tutors
1500 Course Developers
45000 Proctors and Examiners
Learning Community

- More exposure for your work
- Researchers in developing countries can see your work
- Practitioners can apply your findings
- Higher citation rates
- Taxpayers get value for money
- Compliant with grant rules
- Your research can influence policy
- The public can access your findings

CC-BY Danny Kingsley & Sarah Brown
MOOCs Phenomenon
MOOCs Providers

Course distribution by provider

- Coursera: 36%
- edX: 16%
- Canvas Network: 8.4%
- Miriada: 5.3%
- FutureLearn: 4.7%
- Udacity: 2.4%
- CourseSites: 2.5%
- iversity: 2.2%
- Open2Study: 2.0%
- NovoEd: 1.6%
- Others: 18%
Course distribution by subject

- **Art and Design**: 4.5%
- **Engineering**: 5.2%
- **Comp. Sci & Prog.**: 16%
- **Social Sciences**: 6.0%
- **Humanities**: 17%
- **Math. & Stats**: 5.4%
- **Education & Teaching**: 9.5%
- **Science**: 12%
- **Health & Medicine**: 10%
UNIVERSITAS TERBUKA (UT) MOOCS: BEYOND OER
In 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
Enabling Factors

- UT OPEN POLICY
  - Open (Source) Software:
  - Open content: REPURPOSE, REUSE, REMIX of OER
    → OPEN DOCUMENT TEXT
    → EPUB
    → SCORM
  - Open license –
    → Creative Commons:
Enabling Factors

- **MANAGING about 1200 Online Course**
  - MOODLE Platform → Open EdX
  - Drupal and Jomla

- **INFRASTRUCTURES**
  - Digital Learning Resources
  - Private Virtual Network (PVN)
  - 10 GB Cloud storage for each student – One Drive

- **HUMAN RESOURCE CAPACITY**
  - 15 years of online learning experiences
EXPANDING Open Policy @ UT

Open Policies on:

- Open admission
- Open registration
- No age limit
- No Entrance Test
- No Dropout system
- Multi Entry - Exit

- 1.2 million enrolled students
- 550,000 active students
- 1400 Faculty Members
- 21000 Tutors
- 1500 Course Developers
- 45000 Proctors and Examiners

Open (Source) Software
Open Content
Open License
BACKGROUND OF UT- MOOCs
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 ONLINE POPULATION IS GROWING RAPIDLY

INTERNET USERS in millions

Source: eMarketer, Indonesia Online, March 2013
### Work Force Qualification/Competence

<table>
<thead>
<tr>
<th>Education</th>
<th>2001</th>
<th>2006</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementary level</td>
<td>63.0%</td>
<td>55.5%</td>
<td>51.5%</td>
</tr>
<tr>
<td>Junior High School</td>
<td>17.7%</td>
<td>20.2%</td>
<td>18.9%</td>
</tr>
<tr>
<td>Senior High School</td>
<td>10.3%</td>
<td>12.7%</td>
<td>14.6%</td>
</tr>
<tr>
<td>Vocational HS</td>
<td>5.5%</td>
<td>6.2%</td>
<td>7.8%</td>
</tr>
<tr>
<td>Diploma I,II,III</td>
<td>1.6%</td>
<td>2.2%</td>
<td>2.7%</td>
</tr>
<tr>
<td>University</td>
<td>1.8%</td>
<td>3.2%</td>
<td>4.6%</td>
</tr>
</tbody>
</table>

- **Elementary level**: 51.50%
- **Junior High School**: 18.90%
- **Senior High School**: 14.60%
- **Vocational HS**: 7.80%
- **University**: 4.60%
- **Diploma I,II,III**: 2.70%
Challenges

**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
MOOCs at UT OFFERED in 2014

- Free online courses for anyone as community services fostering development objectives.
- Promoting continuous professional development (CPD) through online learning
- 18 Courses:
- About 5,000 enrollments
MOOCs ASEAN Studies UT-UNESCO

• Open Registration on 16 August 2015
• Increasing ASEAN Community awareness
• Master Level Course
  (http://aseanstudies.ut.ac.id)
  (http://moocs.ut.ac.id)
UT- Moocs: the Way Forward
UT-MOOCs Development Phases

1. OPEN Courseware
   - Structurally Chaotic
   - Highly unstructured, and unstandardized (free style)

2. MOOCs4D xsMOOCs
   - Harmonizing platforms, formats and pedagogy approaches

3. Adaptive Strategy

4. Recognition, Authenticity,
   - Collaborative, Standardized, Affordable, Consumer Driven Course.

5. Highly structured, and standardized
CHALLENGING AREAS

- ACCESS AND EQUITY (Outreach, Affordability)
- QUALITY (Authentication, Effective Pedagogy, Completion Rate)
- SUSTAINABILITY (Business Model)
PERCEIVED BENEFITS of MOOCs

• Overcoming Resource Constrains: Increasing Enrollment, Limited Expertise
• Increasing Flexibility (From Degree to Certificate of Competence (DIY) approach, Self-Paced Learning)
• Increasing Global Reach and Quality
• Reducing Cost
Combining between Free and Paid Courses.
A trend towards ‘Always On’ availability (self-pacing pedagogy)
Institutions adopt Open edX or its own institutional Platform.
Increasing sharing capabilities: Reusing, Remix and Repurposes
Thank You